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The Firearms and Ammunition Sector for Sporting, Hunting, and Civilian Use in Europe

Summary

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OVERVIEW OF THE EUROPEAN SECTOR ANALYSIS

OVERVIEW OF THE EUROPEAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Europe's firearms industry comprises 218 companies and employs 16,188 workers. More specifically, the countries with the highest number of companies are Italy (107), Germany (25), and the UK (13), while the countries with the largest number of employees are Germany (5,000), the Czech Republic (3,051), and Italy (2,199). Overall, the total turnover generated by the firearms companies amounts to 3,270,394,967 euros.

With specific reference to the trade balance, exports in 2021 amount to 1,757,184,389 euros, with Italy, Austria, and Germany being the leading exporting countries. Imports, on the other hand, are equal to 401,586,928 euros. As a result, the European firearms industry records a trade surplus of 1,355,597,461 euros.

Tab 1.EU – Overview of the European firearms production

	COMPANIES	EMPLOYEES	TURNOVER (EUROS)	EXPORT (EUROS)	IMPORT (EUROS)	TRADE BALANCE
AUSTRIA	7	607	501,084,574	434,991,519	30,506,000	404,485,519
BELGIUM	2	159	151,349,296	53,729,000	33,978,000	19,751,000
BULGARIA	3	461	71,496,727	25,381,338	4,422,834	20,958,504
CROATIA	1	699	165,295,037	125,973,000	3,248,000	122,725,000
CYPRUS	-	-	-	2,062,000	3,959,000	- 1,897,000
CZECH REPUBLIC	5	3,051	473,419,718	168,064,000	14,451,000	153,613,000
DENMARK	2	31	4,828,169	1,714,000	17,751,000	- 16,037,000
ESTONIA	1	5	777,465	276,000	1,311,000	- 1,035,000
FINLAND	1	280	86,800,000	67,143,000	7,574,000	59,569,000
FRANCE	7	200	18,000,000	7,669,548	55,424,075	- 47,754,527
GERMANY	25	5,000	564,142,000	216,488,000	43,941,000	172,547,000
GREECE	1	500	118,236,793	663,000	3,019,000	- 2,356,000
HUNGARY	6	92	21,755,570	404,942	4,576,604	- 4,171,662
IRELAND	-	-	-	17,518	1,879,900	- 1,862,382
ITALY	107	2,199	520,005,416	451,431,000	22,454,000	428,977,000
LATVIA	-	-	-	528,000	1,675,000	- 1,147,000
LITHUANIA	-	-	-	574,000	4,107,000	- 3,533,000
LUXEMBOURG	2	30	7,094,208	61,000	1,919,000	- 1,858,000
MALTA	-	-	-	79,000	1,128,000	- 1,049,000
NORWAY	1	33	7,803,628	474,000	10,871,000	- 10,397,000
POLAND	4	149	23,177,465	8,228,000	20,734,000	- 12,506,000
PORTUGAL	1	500	80,000,000	30,358,000	3,714,000	26,644,000
ROMANIA	3	259	40,172,572	14,261,263	6,989,706	7,271,557
SLOVAKIA	3	375	58,230,986	20,672,000	3,787,000	16,885,000
SLOVENIA	4	137	21,288,059	7,557,261	2,998,809	4,558,452
SPAIN	9	396	176,513,340	60,514,000	25,077,000	35,437,000
SWEDEN	4	26	3,980,282	1,413,000	14,298,000	- 12,885,000
SWITZERLAND	6	293	45,439,437	16,131,000	20,762,000	- 4,631,000
THE NETHERLANDS	-	-	-	1,452,000	6,388,000	- 4,936,000
UK	13	706	109,504,225	38,874,000	28,643,000	10,231,000
TOTAL	218	16,188	3,270,394,967	1,757,184,389	401,586,928	1,355,597,461

Europe's ammunition industry comprises 193 companies with a total of 10,822 employees. More in detail, the countries with the highest number of companies are Italy (125) and Germany (8), while the countries with the largest number of employees are Germany (3,000), the Czech Republic (1,700), Belgium (1,379), and Italy (1,129). Overall, the total turnover generated by the ammunition companies amounts to 2,541,932,000 euros. With regard to the trade balance, exports in 2021 amount to 1,184,794,202 euros, with Germany, Switzerland, and Italy being the leading exporting countries. Imports, on the other hand, are equal to 785,359,955 euros. As a result, the European ammunition industry records a trade surplus of 399,434,247 euros.

Tab 2.EU – Overview of the European ammunition production

	COMPANIES	EMPLOYEES	TURNOVER (EUROS)	EXPORT (EUROS)	IMPORT (EUROS)	TRADE BALANCE
AUSTRIA	1	155	49,499,196	21,547,000	36,220,000	- 14,673,000
BELGIUM	1	1,379	250,019,378	24,851,000	49,557,000	- 24,706,000
BULGARIA	2	118	44,912,515	23,354,508	6,482,415	16,872,093
CROATIA	2	10	3,199,545	2,350,000	3,848,000	- 1,498,000
CYPRUS	1	29	12,000,000	4,726,000	4,404,000	322,000
CZECH REPUBLIC	2	1,700	300,000,000	67,810,000	21,985,000	45,825,000
DENMARK	1	22	8,519,231	4,430,000	25,887,000	- 21,457,000
ESTONIA	1	18	7,032,692	3,657,000	3,942,000	- 285,000
FINLAND	2	370	116,500,000	37,504,000	12,618,000	24,886,000
FRANCE	7	450	100,000,000	60,321,000	54,362,000	5,959,000
GERMANY	8	3,000	238,109,000	180,116,000	85,605,000	94,511,000
GREECE	1	63	23,873,077	12,414,000	3,175,000	9,239,000
HUNGARY	4	450	143,979,508	43,681,451	22,609,445	21,072,006
IRELAND	-	-	-	35,000	1,433,000	- 1,398,000
ITALY	125	1,129	361,228,588	157,251,000	48,159,000	109,092,000
LATVIA	4	67	21,436,949	1,106,000	23,383,000	- 22,277,000
LITHUANIA	2	140	15,000,000	11,669,000	10,800,000	869,000
LUXEMBOURG	-	-	-	234,000	2,491,000	- 2,257,000
MALTA	1	2	639,909	24,000	815,000	- 791,000
NORWAY	-	-	-	54,927,000	51,687,000	3,240,000
POLAND	5	153	58,521,154	30,431,000	71,226,000	- 40,795,000
PORTUGAL	1	6	8,000,000	164,000	5,016,000	- 4,852,000
ROMANIA	-	-	-	2,590,352	5,764,069	- 3,173,717
SLOVAKIA	2	300	114,734,615	59,662,000	39,013,000	20,649,000
SLOVENIA	3	68	26,086,329	13,564,891	9,215,026	4,349,865
SPAIN	6	253	156,000,000	100,705,000	49,035,000	51,670,000
SWEDEN	2	276	82,926,923	43,122,000	14,775,000	28,347,000
SWITZERLAND	2	450	310,348,077	161,381,000	23,089,000	138,292,000
THE NETHERLANDS	1	99	31,721,154	16,495,000	42,093,000	- 25,598,000
UK	6	115	57,644,160	44,671,000	56,671,000	- 12,000,000
TOTAL	193	10,822	2,541,932,000	1,184,794,202	785,359,955	399,434,247

THE EUROPEAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Europe's firearms components industry includes 637 companies and counts 6,842 employees. Component production contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. Italy, Sweden, and Austria are the countries with the highest number of companies and employees in this sector.

In 2021, the European sector exports a total of 938,677,296 euros, with Germany, Italy, and Sweden being the leading exporting countries. The sector imports a total of 694,898,883 euros, resulting in a trade surplus of 243,778,413 euros.

Moreover, the generic suppliers were analyzed, resulting in 1,763 companies and 5,373 employees. Overall, considering both component manufacturers and generic suppliers, 2,400 companies and 12,215 employees were identified.

Tab 3.EU – Overview of the European firearm components industry

	COMPANIES (COMPONENTS)	EMPLOYEES (COMPONENTS)	EXPORT COMPONENTS (EUROS)	IMPORT COMPONENTS (EUROS)	TRADE BALANCE	COMPANIES (GENERIC SUPPLIERS)	EMPLOYEES (GENERIC SUPPLIERS)	TOTAL COMPANIES	TOTAL EMPLOYEES
AUSTRIA	73	798	67,532,000	46,716,000	20,816,000	201	603	274	1,401
BELGIUM	32	351	29,681,000	17,663,000	12,018,000	88	264	120	615
BULGARIA	29	316	26,770,846	11,116,268	15,654,578	80	240	109	556
CROATIA	2	24	2,063,000	7,007,000	- 4,944,000	6	18	8	42
CYPRUS	1	2	166,000	298,000	- 42,000	1	3	2	5
CZECH REPUBLIC	51	562	47,538,000	42,683,000	4,855,000	141	423	192	985
DENMARK	3	31	2,819,000	12,187,000	- 9,368,000	8	24	11	55
ESTONIA	2	21	1,796,000	2,762,000	- 966,000	5	15	7	36
FINLAND	36	396	6,535,000	12,529,000	- 5,994,000	100	300	136	696
FRANCE	28	277	70,125,000	59,290,000	10,835,000	71	213	97	490
GERMANY	6	66	186,175,000	113,117,000	73,058,000	17	50	23	116
GREECE	21	236	20,010,000	3,661,000	16,349,000	60	180	81	416
HUNGARY	5	56	4,712,334	13,808,869	- 9,096,535	14	42	19	98
IRELAND	1	2	769,634	3,094,955	- 2,324,321	3	6	4	11
ITALY	152	1,553	115,965,000	33,663,000	82,302,000	422	1,353	574	2,906
LATVIA	9	96	8,109,000	11,119,000	- 3,010,000	24	72	33	168
LITHUANIA	4	40	65,876,000	2,890,000	62,986,000	10	30	14	70
LUXEMBOURG	1	6	477,000	2,648,000	- 2,171,000	3	9	4	15
MALTA	1	1	56,551	178,182	- 121,631	1	1	1	2
NORWAY	17	189	16,008,000	15,965,000	43,000	48	144	65	333
POLAND	6	69	5,878,000	33,415,000	- 27,537,000	17	51	23	120
PORTUGAL	4	40	31,863,000	28,894,000	2,969,000	10	30	14	70
ROMANIA	9	103	8,745,653	7,461,681	1,283,972	26	78	35	181
SLOVAKIA	4	46	3,911,000	26,583,000	- 22,672,000	12	36	16	82
SLOVENIA	5	58	4,876,278	10,846,928	- 5,970,650	15	45	20	103
SPAIN	10	106	26,150,000	41,258,000	- 15,108,000	27	81	37	187
SWEDEN	101	1,107	93,719,000	25,154,000	68,565,000	279	837	380	1,944
SWITZERLAND	9	98	8,327,000	22,083,000	- 13,756,000	25	75	34	173
THE NETHERLANDS	8	86	7,312,000	44,247,000	- 36,935,000	22	66	30	152
UK	10	106	74,920,000	42,680,000	32,240,000	27	81	37	187
TOTAL	637	6,842	938,677,296	694,898,883	243,778,413	1,763	5,373	2,400	12,215

Regarding the auxiliary firearms sector, the European industry employs 40,023 workers. The estimated total turnover of auxiliary services is 6,277,754,529 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 1,106,130,076 euros) is also considered. Additionally, machinery exports have been taken into account, amounting to 197,862,953 euros.

Tab 4.EU – Overview of the European auxiliary firearms industry

	EMPLOYEES	TURNOVER (EUROS)	MARGIN (EUROS)	EXPORT (EUROS)
AUSTRIA	1,259	324,347,614	56,151,783	2,968,213
BELGIUM	562	149,733,613	22,272,778	2,913,080
BULGARIA	531	124,848,273	22,610,231	1,855,133
CROATIA	341	90,006,238	13,582,189	11,913,080
CYPRUS	220	35,410,759	5,834,030	2,171,027
CZECH REPUBLIC	725	126,380,574	18,606,516	4,397,186
DENMARK	815	131,143,684	22,776,380	1,113,080
ESTONIA	127	20,656,726	3,561,289	742,053
FINLAND	1,334	209,351,259	35,285,368	10,113,080
FRANCE	6,146	383,293,308	68,926,398	6,994,372
GERMANY	8,201	853,550,532	169,934,574	14,043,877
GREECE	784	193,179,265	36,093,041	742,053
HUNGARY	519	244,656,729	43,685,606	3,710,266
IRELAND	320	49,062,596	9,875,282	-
ITALY	3,847	686,897,854	105,367,649	93,278,166
LATVIA	186	97,926,308	16,994,737	1,484,106
LITHUANIA	219	46,537,452	7,967,809	742,053
LUXEMBOURG	35	22,449,142	3,873,596	742,053
MALTA	105	6,690,314	1,888,330	371,027
NORWAY	1,051	182,919,248	32,391,466	371,027
POLAND	1,863	317,273,066	56,035,198	3,339,239
PORTUGAL	655	115,568,492	19,717,735	10,113,080
ROMANIA	330	71,822,595	12,839,604	1,113,080
SLOVAKIA	454	247,588,059	43,659,077	1,855,133
SLOVENIA	156	72,349,001	12,430,746	2,597,186
SPAIN	2,777	446,943,957	79,259,820	5,565,399
SWEDEN	2,337	143,268,888	27,154,463	2,226,159
SWITZERLAND	911	368,683,527	66,164,643	2,968,213
THE NETHERLANDS	473	154,592,437	27,021,127	371,027
UK	2,740	360,623,019	64,168,611	7,049,505
TOTAL	40,023	6,277,754,529	1,106,130,076	197,862,953

THE VALUE OF THE EUROPEAN SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The European firearms sector is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Overall, in Europe, there are 5,811,342 hunters and a large community of sport shooters engaged in different disciplines, such as clay target shooting, target shooting, and others, totaling 6,636,135 shooters. France, Spain, and Italy are the countries with the highest number of hunters, while Germany, France, and Italy have the largest number of sport shooters.

Overall, the **annual expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 48,769,883,621 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 47,499,980,406 euros. By adding the total expenditure by hunters (48,769,883,621 euros) to that of shooters (47,499,980,406 euros), we obtain a total of 96,269,864,027 euros, which represents the estimated value of the European sectors driven by the final demand from hunters and shooters.

Tab 5.EU – Overview of the European hunting and shooting sectors

	HUNTERS	ANNUAL EXPENDITURE	SHOOTERS	ANNUAL EXPENDITURE	TOTAL EXPENDITURE
AUSTRIA	132,947	1,732,690,438	145,348	701,633,344	2,434,323,782
BELGIUM	23,000	288,593,904	48,754	549,072,754	837,666,658
BULGARIA	110,000	1,107,052,675	11,750	49,365,104	1,156,417,779
CROATIA	68,800	514,935,944	12,588	55,739,122	570,675,066
CYPRUS	39,000	507,981,814	4,461	18,253,982	526,235,796
CZECH REPUBLIC	110,000	1,234,206,175	6,212	28,098,039	1,262,304,214
DENMARK	170,000	1,138,530,000	154,922	775,822,516	1,915,352,516
ESTONIA	16,600	167,067,460	13,318	36,826,612	203,894,072
FINLAND	308,000	2,938,281,080	136,736	625,064,479	3,563,345,559
FRANCE	1,100,000	5,179,811,872	621,270	4,111,578,385	9,291,390,257
GERMANY	407,360	3,489,081,387	3,549,787	29,414,212,285	32,903,293,672
GREECE	145,800	1,497,228,560	62,019	285,776,137	1,783,004,697
HUNGARY	70,865	556,737,049	33,715	136,951,272	693,688,321
IRELAND	350,000	2,356,838,156	11,205	41,508,757	2,398,346,913
ITALY	533,000	2,456,175,102	354,026	811,239,162	3,267,414,264
LATVIA	25,000	278,120,295	3,458	15,788,428	293,908,723
LITHUANIA	32,000	263,675,727	5,083	22,727,987	286,403,714
LUXEMBOURG	2,400	38,688,797	3,483	24,999,913	63,688,710
MALTA	12,500	181,462,984	13,789	55,032,835	236,495,819
NORWAY	136,900	1,808,202,112	110,855	635,658,562	2,443,860,674
POLAND	130,000	1,266,368,848	311,586	2,522,364,056	3,788,732,904
PORTUGAL	115,000	699,713,920	78,811	351,389,429	1,051,103,349
ROMANIA	70,000	619,636,203	7,526	38,551,758	658,187,961
SLOVAKIA	55,000	612,762,813	21,212	160,939,907	773,702,720
SLOVENIA	22,000	221,410,535	6,801	21,753,612	243,164,147
SPAIN	1,000,000	11,614,412,024	173,522	926,657,575	12,541,069,599
SWEDEN	290,000	3,329,112,798	346,718	2,077,994,128	5,407,106,926
SWITZERLAND	30,500	398,841,801	46,115	363,548,492	762,390,293
THE NETHERLANDS	28,170	188,963,348	64,765	558,929,774	747,893,122
UK	276,500	2,082,500,000	276,500	2,082,500,000	4,165,000,000
TOTAL	5,811,342	48,769,883,621	6,636,135	47,499,980,406	96,269,864,027

EMPLOYMENT IN THE EUROPEAN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational impact of European sectors involved in providing products related to the final demand linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting equipment, accessories for dogs and games, and materials used in shooting ranges and fields. As a result, the research identified a total of 84,691 employees in these product-related sectors.

Regarding services, employment within organizations providing services used for hunting and sport shooting practices was calculated in the following areas: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services in Europe amounts to 490,936.

Tab 5.EU – Overview of the European sectors connected to the final demand of hunters and shooters

	EMPLOYEES PRODUCTS	EMPLOYEES SERVICES
AUSTRIA	2,392	11,690
BELGIUM	564	2,822
BULGARIA	4,613	6,676
CROATIA	1,911	4,621
CYPRUS	651	2,798
CZECH REPUBLIC	3,866	6,564
DENMARK	806	12,686
ESTONIA	445	1,273
FINLAND	906	14,561
FRANCE	7,691	65,481
GERMANY	10,685	128,913
GREECE	2,332	13,190
HUNGARY	2,286	4,976
IRELAND	2,192	18,344
ITALY	5,505	35,176
LATVIA	877	1,643
LITHUANIA	2,044	1,980
LUXEMBOURG	51	266
MALTA	250	990
NORWAY	1,024	9,670
POLAND	10,317	12,602
PORTUGAL	1,830	7,960
ROMANIA	5,064	8,213
SLOVAKIA	1,777	4,533
SLOVENIA	385	1,942
SPAIN	6,001	58,508
SWEDEN	2,093	22,588
SWITZERLAND	515	2,603
THE NETHERLANDS	1,035	5,623
UK	4,583	22,064
TOTAL	84,691	490,936

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS IN EUROPE

Overall, the analysis conducted has made it possible to identify the economic and employment impact of the firearms and ammunition sector for civilian use in Europe. This includes not only the companies directly producing firearms and ammunition, but also those operating in upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors that provide products and services to users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The final part of the research aimed to estimate the **effects of the European induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other sectors of the economy, based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and employment across all sectors that contribute to forming the European economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 6.EU and 7.EU show **the total value of the European civilian firearms and ammunition sector**, amounting to 180,385,152,747 euros and 1,127,214 employees.

Table 6.EU - Total economic impact of the European firearms and ammunition sector and sectors connected to final demand

	TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO THE FINAL DEMAND	INDUCED EFFECTS OF CONNECTED SECTORS	TOTAL CONSIDERING THE INDUCED EFFECTS
AUSTRIA	3,756,662,167	1,704,026,647	5,460,688,814
BELGIUM	1,840,018,503	586,366,661	2,426,385,164
BULGARIA	1,501,183,501	809,492,446	2,310,675,947
CROATIA	958,346,881	399,472,546	1,357,819,427
CYPRUS	570,735,560	368,365,057	939,100,617
CZECH REPUBLIC	3,039,327,295	883,612,950	3,922,940,245
DENMARK	2,022,260,175	1,340,746,761	3,363,006,936
ESTONIA	234,077,763	142,727,250	376,805,013
FINLAND	4,099,577,949	2,494,341,891	6,593,919,840
FRANCE	9,859,655,191	6,503,833,180	16,363,488,371
GERMANY	35,300,498,568	23,032,305,570	58,332,804,138
GREECE	2,223,536,345	1,248,103,288	3,471,639,633
HUNGARY	1,188,814,950	485,581,825	1,674,396,775
IRELAND	2,423,429,892	1,678,842,839	4,102,272,731
ITALY	5,643,990,664	2,287,189,985	7,931,180,649
LATVIA	406,073,769	205,736,106	611,809,875
LITHUANIA	460,892,179	200,482,600	661,374,779
LUXEMBOURG	90,548,607	44,582,097	135,130,704
MALTA	241,872,956	165,547,073	407,420,029
NORWAY	2,594,594,722	1,710,702,472	4,305,297,194
POLAND	4,139,014,138	2,652,112,893	6,791,127,031
PORTUGAL	1,362,056,456	735,772,344	2,097,828,800
ROMANIA	791,513,189	460,731,572	1,252,244,761
SLOVAKIA	1,247,516,137	541,591,904	1,789,108,041
SLOVENIA	387,167,420	170,214,903	557,382,323
SPAIN	13,479,981,210	8,778,748,719	22,258,729,929
SWEDEN	5,837,702,051	3,784,974,848	9,622,676,899
SWITZERLAND	1,598,133,316	533,673,205	2,131,806,521
THE NETHERLANDS	889,665,972	505,502,300	1,395,168,272
UK	4,825,423,289	2,915,500,000	7,740,923,289
TOTAL	113,014,270,815	67,370,881,932	180,385,152,747

Table 7.EU - Total employment impact of the European firearms and ammunition sector and sectors connected to final demand

	TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO THE FINAL DEMAND	INDUCED EFFECTS OF CONNECTED SECTORS	TOTAL CONSIDERING THE INDUCED EFFECTS
AUSTRIA	20,516	9,857	30,373
BELGIUM	8,490	2,370	10,860
BULGARIA	14,421	7,902	22,323
CROATIA	8,584	4,572	13,156
CYPRUS	3,927	2,414	6,341
CZECH REPUBLIC	22,577	7,301	29,878
DENMARK	15,208	9,430	24,638
ESTONIA	2,068	1,203	3,271
FINLAND	20,506	10,827	31,333
FRANCE	86,870	51,221	138,091
GERMANY	170,274	97,718	267,992
GREECE	18,837	10,865	29,702
HUNGARY	9,441	5,083	14,524
IRELAND	21,159	14,375	35,534
ITALY	59,634	28,477	88,111
LATVIA	3,311	1,764	5,075
LITHUANIA	4,830	2,817	7,647
LUXEMBOURG	467	222	689
MALTA	1,445	868	2,313
NORWAY	13,358	7,486	20,844
POLAND	27,214	16,043	43,257
PORTUGAL	12,105	6,853	18,958
ROMANIA	14,725	9,294	24,019
SLOVAKIA	8,586	4,417	13,003
SLOVENIA	3,198	1,629	4,827
SPAIN	71,301	45,156	116,457
SWEDEN	33,299	17,277	50,576
SWITZERLAND	6,553	2,182	8,735
THE NETHERLANDS	7,759	4,582	12,341
UK	33,693	18,653	52,346
TOTAL	724,356	402,858	1,127,214

Lastly, Table 8.EU shows that the total European value of the analyzed sectors amounts to 180,385,152,747 euros, equivalent to 0.99% of Gross Domestic Product (GDP).

Table 8.EU – Total economic impact of the European sectors on the Gross Domestic Production (GDP)

	TOTAL CONSIDERING THE INDUCED EFFECTS	GDP	IMPACT OF SECTOR ON GDP
AUSTRIA	5,460,688,814	406,232,100,000	1.34%
BELGIUM	2,426,385,164	508,061,200,000	0.48%
BULGARIA	2,310,675,947	71,378,400,000	3.24%
CROATIA	1,357,819,427	58,394,100,000	2.33%
CYPRUS	939,100,617	25,680,100,000	3.66%
CZECH REPUBLIC	3,922,940,245	246,012,300,000	1.59%
DENMARK	3,363,006,936	345,236,000,000	0.97%
ESTONIA	376,805,013	31,456,200,000	1.20%
FINLAND	6,593,919,840	248,764,000,000	2.65%
FRANCE	16,363,488,371	2,508,102,000,000	0.65%
GERMANY	58,332,804,138	3,676,460,000,000	1.59%
GREECE	3,471,639,633	184,574,600,000	1.88%
HUNGARY	1,674,396,775	154,962,000,000	1.08%
IRELAND	4,102,272,731	449,216,500,000	0.91%
ITALY	7,931,180,649	1,821,934,600,000	0.44%
LATVIA	611,809,875	32,285,300,000	1.90%
LITHUANIA	661,374,779	56,478,100,000	1.17%
LUXEMBOURG	135,130,704	72,360,900,000	0.19%
MALTA	407,420,029	16,670,300,000	2.44%
NORWAY	4,305,297,194	425,445,600,000	1.01%
POLAND	6,791,127,031	583,001,400,000	1.16%
PORTUGAL	2,097,828,800	216,053,200,000	0.97%
ROMANIA	1,252,244,761	242,260,400,000	0.52%
SLOVAKIA	1,789,108,041	101,960,000,000	1.75%
SLOVENIA	557,382,323	52,022,600,000	1.07%
SPAIN	22,258,729,929	1,222,290,000,000	1.82%
SWEDEN	9,622,676,899	538,597,200,000	1.79%
SWITZERLAND	2,131,806,521	689,174,900,000	0.31%
THE NETHERLANDS	1,395,168,272	891,550,000,000	0.16%
UK	7,740,923,289	2,256,615,200,000	0.34%
TOTAL	180,385,152,747	18,133,229,200,000	0.99%

FOCUS ON THE 30 ANALYZED COUNTRIES

The following section of the report presents the 30 countries analyzed in the study. Each country is summarized through a two-page factsheet highlighting all the key findings and main data that emerged.

AUSTRIA

OVERVIEW OF THE AUSTRIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Austria's firearms industry comprises seven companies and employs 607 workers. The total turnover amounts to 501,084,574 euros.

Exports in 2021 are equal to 434,991,519 euros. Austria primarily exports *Revolvers and pistols* (Category: 930200), with USA being the most significant market. Imports, on the other hand, total 30,506,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Germany as a key supplier. As a result, Austria records a trade surplus of 404,485,519 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 96,599,055 euros.

Austria's ammunition industry consists of one company and employs 155 workers, with a total turnover of 49,499,196 euros. In 2021, Austria's exports amount to 21,547,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with Germany as the key destination. The country imports 36,220,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from exports listed under special categories. This results in a trade deficit of 14,673,000 euros. The estimated wholesale value of the domestic market is 64,172,196 euros.

THE AUSTRIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Austria's firearms components industry includes 73 companies and employs 798 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Austria's exports of firearm components amount to 67,532,000 euros, mainly *telescopic sights* (Category: 901310), with Germany as the key market. The country imports 46,716,000 euros, primarily *telescopic sights* (Category: 901310), mainly from China. This resulted in a trade surplus of 20,816,000 euros. Moreover, the generic suppliers were analyzed, resulting in 603 employees. Overall, considering both component manufacturers and generic suppliers, 274 companies and 1,401 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 1,259 workers. The estimated total turnover of auxiliary services is 324,347,614 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 56,151,783 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 2,968,213 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Austria is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Austria has 132,947 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 145,348 shooters.

In total, the **annual expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 1,732,690,438 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 701,633,344 euros. By adding the total expenditure by hunters (1,732,690,438 euros) to that of shooters (701,633,344 euros), we obtain a total of 2,434,323,782 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 2,392.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 11,690.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Austrian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 5,460,688,814 euros and 30,373 employees.

Table 1.AT - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	720,620,373	0.18%
Induced economic impact	601,718,012	0.15%
TOTAL ECONOMIC IMPACT	1,322,338,385	0.33%
Value of sectors connected to final demand (hunting and shooting)	2,434,323,782	0.60%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	3,756,662,167	0.92%
Induced effect of connected sectors	1,704,026,647	0.42%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	5,460,688,814	1.34%

Table 2.AT - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Austria	% of total employment in manufacturing and services
Sector employees + Suppliers	3,442	0.10%	0.14%
Induced employment impact	3,012	0.08%	0.12%
TOTAL EMPLOYMENT IMPACT	6,434	0.18%	0.26%
Employees of the sectors connected to final demand (hunting and shooting)	14,082	0.39%	0.57%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	20,516	0.57%	0.83%
Induced effect of connected sectors	9,857	0.27%	0.40%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	30,373	0.85%	1.2%

BELGIUM

OVERVIEW OF THE BELGIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Belgium's firearms industry comprises two companies and employs 159 workers. The total turnover amounts to 151,349,296 euros.

Exports in 2021 amount to 53,729,000 euros. Belgium primarily exports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with France being the most significant market. Imports, on the other hand, reach 33,978,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Portugal as a key supplier. As a result, Belgium records a trade surplus of 19,751,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 131,598,296 euros.

Belgium's ammunition industry consists of one company and employs 1,379 workers, with a turnover 250,019,378 euros.

In 2021, Belgium exports 24,851,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with Germany as the key destination. The country imports 49,557,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from France. This results in a trade deficit of 24,706,000 euros. The estimated wholesale value of the domestic market is 274,725,378 euros.

THE BELGIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Belgium's firearms components industry includes 32 companies and employs 351 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Belgium exports 29,681,000 euros, mainly *telescopic sights* (Category: 901310), with France as the key market. The country's imports amount to 17,663,000 euros, primarily *telescopic sights* (Category: 901310), mainly from Germany. This resulted in a trade surplus of 12,018,000 euros. Moreover, the generic suppliers were analyzed, resulting in 264 employees. Overall, considering both component manufacturers and generic suppliers, 120 companies and 615 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 562 workers. The estimated total turnover of auxiliary services is 149,733,613 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 22,272,778 euros) is also considered. Additionally, machinery exports have been considered, amounting to 1,800,000 euros for the specialized sector and 1,113,080 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Belgium is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Belgium has 23,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 48,754 shooters. In total, the **annual expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 288,593,904 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 549,072,754 euros. By adding the total expenditure by hunters (288,593,904 euros) to that of shooters (549,072,754 euros), we obtain a total of 837,666,658 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 564.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 2,822.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Belgian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 2,426,385,164 euros and 10,860 employees.

Table 1.BL - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	546,240,787	0.11%
Induced economic impact	456,111,058	0.09%
TOTAL ECONOMIC IMPACT	1,002,351,845	0.20%
Value of sectors connected to final demand (hunting and shooting)	837,666,658	0.16%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	1,840,018,503	0.36%
Induced effect of connected sectors	586,366,661	0.12%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	2,426,385,164	0.48%

Table 2.BL - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Belgium	% of total employment in manufacturing and services
Sector employees + Suppliers	2,715	0.07%	0.15%
Induced employment impact	2,389	0.06%	0.14%
TOTAL EMPLOYMENT IMPACT	5,104	0.14%	0.29%
Employees of the sectors connected to final demand (hunting and shooting)	3,386	0.09%	0.19%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	8,490	0.23%	0.48%
Induced effect of connected sectors	2,370	0.06%	0.13%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	10,860	0.29%	0.62%

BULGARIA

OVERVIEW OF THE BULGARIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Bulgaria's firearms industry comprises three companies and employs 461 workers, producing 472,037 firearms annually. The total turnover amounts to 71,496,727 euros.

Exports in 2021 amount to 25,381,338 euros. Bulgaria primarily exports *other firearms* (Category: 930390), with Philippines being the most significant market. Imports, on the other hand, reach 4,422,834 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Italy as a key supplier. As a result, Bulgaria records a trade surplus of 20,958,504 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 50,538,223 euros.

Bulgaria's ammunition industry consists of two companies and employs 118 workers. The sector totals 44,912,515 euros.

In 2021, Bulgaria exports 23,354,508 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with Poland as the key destination. The country's imports amount to 6,482,415 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Poland. This results in a trade surplus of 16,872,093 euros. The estimated wholesale value of the domestic market is 28,040,422 euros.

THE BULGARIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Bulgaria's firearms components industry includes 29 companies and employs 316 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Bulgaria exports 26,770,846 euros, mainly *telescopic sights* (Category: 901310), with Austria as the key market. The country imports 11,116,268 euros, primarily *telescopic sights* (Category: 901310), mainly from China. This resulted in a trade surplus of 15,654,578 euros. Moreover, the generic suppliers were analyzed, resulting in 240 employees. Overall, considering both component manufacturers and generic suppliers, 109 companies and 556 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 531 workers. The estimated total turnover of auxiliary services is 124,848,273 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 22,610,231 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 1,855,133 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Bulgaria is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Bulgaria has 110,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 11,750 shooters. In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 1,107,052,675 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 49,365,104 euros. By adding the total expenditure by hunters (1,107,052,675 euros) to that of shooters (49,365,104 euros), we obtain a total of 1,156,417,779 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 4,613.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 6,676.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Bulgarian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 2,310,675,947 euros and 22,323 employees.

Table 1.BG - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	187,883,227	0.26%
Induced economic impact	156,882,495	0.22%
TOTAL ECONOMIC IMPACT	344,765,722	0.48%
Value of sectors connected to final demand (hunting and shooting)	1,156,417,779	1.62%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	1,501,183,501	2.10%
Induced effect of connected sectors	809,492,446	1.13%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	2,310,675,947	3.24%

Table 2.BG - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Bulgaria	% of total employment in manufacturing and services
Sector employees + Suppliers	1,666	0.08%	0.10%
Induced employment impact	1,466	0.07%	0.08%
TOTAL EMPLOYMENT IMPACT	3,132	0.15%	0.18%
Employees of the sectors connected to final demand (hunting and shooting)	11,289	0.53%	0.65%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	14,421	0.68%	0.82%
Induced effect of connected sectors	7,902	0.37%	0.45%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	22,323	1.05%	1.28%

CROATIA

OVERVIEW OF THE CROATIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Croatia's firearms industry comprises one company and employs 699 workers. The total turnover amounts to 165,295,037 euros.

Exports in 2021 amount to 125,973,000 euros. Croatia primarily exports *revolvers and pistols* (Category: 930200), with USA being the most significant market. Imports, on the other hand, reach 3,248,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Germany as a key supplier. As a result, Croatia records a trade surplus of 122,725,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 42,570,037 euros.

Croatia's ammunition industry consists of two companies and employs 10 workers. The total turnover is 3,199,545 euros.

In 2021, Croatia exports 2,350,000 euros, primarily consisting *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with USA as the key destination. The country's imports amount to 3,848,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Czech Republic. This results in a trade deficit of 1,498,000 euros. The estimated wholesale value of the domestic market is 4,697,545 euros.

THE CROATIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Croatia's firearms components industry includes 2 companies and employs 24 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Croatia exports 2,063,000 euros, mainly *parts and accessories for revolvers and pistols* (Category: 930510), with USA as the key market. The country imports 7,007,000 euros, primarily *parts and accessories for revolvers and pistols* (Category: 930510), mainly from Israel. This resulted in a trade deficit of 4,944,000 euros. Moreover, the generic suppliers were analyzed, resulting in 18 employees. Overall, considering both component manufacturers and generic suppliers, 8 companies and 42 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 341 workers. The estimated total turnover of auxiliary services is 90,006,238 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 13,582,189 euros) is also considered. Additionally, machinery exports have been considered, amounting to 10,800,000 euros for the specialized sector and 1,113,080 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Croatia is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Croatia has 68,800 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 12,588 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 514,935,944 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 55,739,122 euros. By adding the total expenditure by hunters (514,935,944 euros) to that of shooters (55,739,122 euros), we obtain a total of 570,675,066 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 1,911.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 4,621.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Croatian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 1,357,819,427 euros and 13,156 employees.

Table 1.HR - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	211,265,294	0.36%
Induced economic impact	176,406,521	0.30%
TOTAL ECONOMIC IMPACT	387,671,815	0.66%
Value of sectors connected to final demand (hunting and shooting)	570,675,066	0.98%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	958,346,881	1.64%
Induced effect of connected sectors	399,472,546	0.68%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	1,357,819,427	2.33%

Table 2.HR - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Croatia	% of total employment in manufacturing and services
Sector employees + Suppliers	1,092	0.09%	0.12%
Induced employment impact	961	0.08%	0.10%
TOTAL EMPLOYMENT IMPACT	2,052	0.17%	0.22%
Employees of the sectors connected to final demand (hunting and shooting)	6,532	0.54%	0.69%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	8,584	0.71%	0.91%
Induced effect of connected sectors	4,572	0.38%	0.48%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	13,156	1.08%	1.39%

CYPRUS

OVERVIEW OF THE CYPRIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Cyprus's firearms industry has no manufacturing companies.

Exports in 2021 amount to 2,062,000 euros. Cyprus primarily exports *sporting, hunting, and target-shooting shotguns with at least one smooth barrel* (Category: 930320), with Russian Federation being the most significant market. Imports, on the other hand, reach 3,959,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns with at least one smooth barrel* (Category: 930320), with Italy as a key supplier. As a result, Cyprus records a trade deficit of 1,897,000 euros in the firearms sector.

Cyprus's ammunition industry consists of one company and employs 29 workers. The sector produces 37,000,000 ammunitions annually, totaling 12,000,000 euros.

In 2021, Cyprus exports 4,726,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns* (Category: 930621), with Saudi Arabia as the key destination. The country imports 4,404,000 euros, primarily *cartridges for smooth-barrelled shotguns* (Category: 930621), mainly from Italy. This results in a trade surplus of 322,000 euros. The estimated wholesale value of the domestic market is 11,678,000 euros.

THE CYPRIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Cyprus's firearms components industry includes 1 company and employs 2 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes.

In 2021, Cyprus exports 166,000 euros, mainly *parts and accessories of shotguns or rifles* (Category: 930520), with Russian Federation as the key market. The country imports 208,000 euros, primarily *parts and accessories of shotguns or rifles* (Category: 930520), mainly from Italy. This resulted in a trade deficit of 42,000 euros. Moreover, the generic suppliers were analyzed, resulting in 3 employees. Overall, considering both component manufacturers and generic suppliers, 2 companies and 5 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 220 workers. The estimated total turnover of auxiliary services is 35,410,759 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 5,834,030 euros) is also considered. Additionally, machinery exports have been considered, amounting to 1,800,000 euros for the specialized sector and 371,027 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Cyprus is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Cyprus has 39,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 4,461 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 507,981,814 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 18,253,982 euros. By adding the total expenditure by hunters (507,981,814 euros) to that of shooters (18,253,982 euros), we obtain a total of 526,235,796 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 651.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 2,798.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Cyprian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 939,100,617 euros and 6,341 employees.

Table 1.CY - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	24,250,553	0.09%
Induced economic impact	20,249,211	0.08%
TOTAL ECONOMIC IMPACT	44,499,764	0.17%
Value of sectors connected to final demand (hunting and shooting)	526,235,796	2.05%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	570,735,560	2.22%
Induced effect of connected sectors	368,365,057	1.43%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	939,100,617	3.66%

Table 2.CY - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Cyprus	% of total employment in manufacturing and services
Sector employees + Suppliers	254	0.07%	0.20%
Induced employment impact	224	0.06%	0.18%
TOTAL EMPLOYMENT IMPACT	478	0.14%	0.38%
Employees of the sectors connected to final demand (hunting and shooting)	3,449	0.99%	2.71%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	3,927	1.12%	3.09%
Induced effect of connected sectors	2,414	0.69%	1.90%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	6,341	1.82%	4.99%

CZECH REPUBLIC

OVERVIEW OF THE CZECH PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Czech's firearms industry comprises five companies and employs 3,051 workers. The total turnover amounts to 473,419,718 euros.

Exports in 2021 amount to 168,064,000 euros. Czech primarily exports *Revolvers and pistols* (Category: 930200), with USA being the most significant market. Imports, on the other hand, reach 14,451,000 euros. The country mainly imports *Revolvers and pistols* (Category: 930200), with Austria as a key supplier. As a result, Czech records a trade surplus of 153,613,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 319,806,718 euros.

Czech's ammunition industry consists of two companies and employs 1,700 workers. The sector produces 1,400,000,000 shotgun ammunition, totaling 300,000,000 euros.

In 2021, Czech Republic exports 67,810,000 euros, primarily consisting *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with USA as the key destination. The country imports 21,985,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Germany. This results in a trade surplus of 45,825,000 euros. The estimated wholesale value of the domestic market is 254,175,000 euros.

THE CZECH FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Czech's firearms components industry includes 51 companies and employs 562 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Czech Republic exports 47,538,000 euros, mainly *parts and accessories for revolvers and pistols* (Category: 930510), with USA as the key market. The country's imports amount to 42,683,000 euros, primarily *telescopic sights* (Category: 901310), mainly from China. This resulted in a trade surplus of 4,855,000 euros. Moreover, the generic suppliers were analyzed, resulting in 423 employees. Overall, considering both component manufacturers and generic suppliers, 192 companies and 985 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 725 workers. The estimated total turnover of auxiliary services is 126,380,574 euros. To measure the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 18,606,516 euros) is also considered. Additionally, machinery exports have been considered, amounting to 1,800,000 euros for the specialized sector and 2,597,186 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Czech Republic is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Czech Republic has 110,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 6,212 shooters. In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 1,234,206,175 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 28,098,039 euros. By adding the total expenditure by hunters (1,234,206,175 euros) to that of shooters (28,098,039 euros), we obtain a total of 1,262,304,214 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 3,866.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 6,564.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Czech economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 3,922,940,245 euros and 28,878 employees.

Table 1.CZ - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	968,404,949	0.39%
Induced economic impact	808,618,132	0.33%
TOTAL ECONOMIC IMPACT	1,777,023,081	0.72%
Value of sectors connected to final demand (hunting and shooting)	1,262,304,214	0.51%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	3,039,327,295	1.24%
Induced effect of connected sectors	883,612,950	0.36%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	3,922,940,245	1.59%

Table 2.CZ - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Czech Republic	% of total employment in manufacturing and services
Sector employees + Suppliers	6,461	0.16%	0.14%
Induced employment impact	5,686	0.14%	0.13%
TOTAL EMPLOYMENT IMPACT	12,147	0.29%	0.27%
Employees of the sectors connected to final demand (hunting and shooting)	10,430	0.25%	0.23%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	22,577	0.54%	0.50%
Induced effect of connected sectors	7,301	0.18%	0.16%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	28,878	0.72%	0.66%

DENMARK

OVERVIEW OF THE DANISH PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Danish's firearms industry comprises two companies and employs 31 workers. The total turnover amounts to 4,828,169 euros.

Exports in 2021 amount to 1,714,000 euros. Denmark primarily exports *sporting, hunting, or target-shooting shotguns with at least one smooth barrel* (Category: 930320), with Sweden being the most significant market. Imports, on the other hand, reach 17,751,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Germany as a key supplier. As a result, Denmark records a trade deficit of 16,037,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 20,865,169 euros.

Denmark's ammunition industry consists of one company and employs 22 workers, with a turnover of 8,519,231 euros.

In 2021, Denmark exports 4,430,000 euros, primarily consisting cartridges for smooth-barrelled shotguns (Category: 930621), with Sweden as the key destination. The country imports 25,887,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Germany. This results in a trade deficit of 21,457,000 euros. The estimated wholesale value of the domestic market is 29,976,231 euros.

THE DANISH FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Denmark's firearms components industry includes 3 companies and employs 31 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Denmark exports 2,619,000 euros, mainly *parts and accessories of shotguns or rifles* (Category: 930520), with Sweden as the key market. The country's imports amount to 12,187,000 euros, primarily *parts and accessories of shotguns or rifles* (Category: 930520), mainly from Germany. This resulted in a trade deficit of 9,568,000 euros. Moreover, the generic suppliers were analyzed, resulting in 24 employees. Overall, considering both component manufacturers and generic suppliers, 11 companies and 55 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 815 workers. The estimated total turnover of auxiliary services is 131,143,684 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 22,776,380 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 1,113,080 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Denmark is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Denmark has 170,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 154,922 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 1,139,530,000 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 775,822,516 euros. By adding the total expenditure by hunters (1,139,530,000 euros) to that of shooters (775,822,516 euros), we obtain a total of 1,915,352,516 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 806.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 12,666.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Danish economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 3,363,006,936 euros and 24,638 employees.

Table 1.DK - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	58,260,305	0.02%
Induced economic impact	48,647,354	0.01%
TOTAL ECONOMIC IMPACT	106,907,659	0.03%
Value of sectors connected to final demand (hunting and shooting)	1,915,352,516	0.55%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	2,022,260,175	0.59%
Induced effect of connected sectors	1,340,746,761	0.39%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	3,363,006,936	0.97%

Table 2.DK - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Denmark	% of total employment in manufacturing and services
Sector employees + Suppliers	923	0.04%	0.08%
Induced employment impact	813	0.04%	0.07%
TOTAL EMPLOYMENT IMPACT	1,736	0.08%	0.16%
Employees of the sectors connected to final demand (hunting and shooting)	13,472	0.64%	1.22%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	15,208	0.72%	1.38%
Induced effect of connected sectors	9,430	0.45%	0.86%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	24,638	1.17%	2.23%

ESTONIA

OVERVIEW OF THE ESTONIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Estonia's firearms industry comprises one company and employs 5 workers. The total turnover amounts to 777,465 euros.

Exports in 2021 amount to 276,000 euros. Estonia primarily exports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Latvia being the most significant market. Imports, on the other hand, reach 1,311,000 euros. The country mainly imports *revolvers and pistols* (Category: 930200), with Austria as a key supplier. As a result, Estonia records a trade deficit of 1,035,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 1,812,465 euros.

Estonia's ammunition industry consists of one company and employs 18 workers, totaling a turnover of 7,032,692 euros.

In 2021, Estonia exports 3,657,000 euros, primarily consisting *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with Poland as the key destination. The country's imports amount to 3,942,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Russian Federation. This results in a trade Deficit of 285,000 euros. The estimated wholesale value of the domestic market is 7,317,692 euros.

THE ESTONIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Estonia's firearms components industry includes 2 companies and employs 21 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Estonia exports 1,796,000 euros, mainly *telescopic sights* (Category: 901310), with Sweden as the key market. The country imports 2,762,000 euros, primarily *telescopic sights* (Category: 901310), mainly from Sweden. This resulted in a trade deficit of 966,000 euros. Moreover, the generic suppliers were analyzed, resulting in 15 employees. Overall, considering both component manufacturers and generic suppliers, 7 companies and 36 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 127 workers. The estimated total turnover of auxiliary services is 20,656,726 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 3,561,289 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 742,053 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Estonia is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Estonia has 16,600 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 13,318 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 167,067,460 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 36,828,612 euros. By adding the total expenditure by hunters (167,067,460 euros) to that of shooters (36,828,612 euros), we obtain a total of 203,896,072 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 445.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 1,273.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Estonian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 376,805,013 euros and 3,271 employees.

Table 1.EE - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	16,447,788	0.05%
Induced economic impact	13,733,903	0.04%
TOTAL ECONOMIC IMPACT	30,181,691	0.10%
Value of sectors connected to final demand (hunting and shooting)	203,896,072	0.65%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	234,077,763	0.74%
Induced effect of connected sectors	142,727,250	0.45%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	376,805,013	1.20%

Table 2.EE - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Estonia	% of total employment in manufacturing and services
Sector employees + Suppliers	186	0.04%	0.05%
Induced employment impact	164	0.03%	0.04%
TOTAL EMPLOYMENT IMPACT	350	0.07%	0.09%
Employees of the sectors connected to final demand (hunting and shooting)	1,718	0.33%	0.44%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	2,068	0.40%	0.53%
Induced effect of connected sectors	1,203	0.23%	0.31%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	3,271	0.64%	0.84%

FINLAND

OVERVIEW OF THE FINNISH PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Finland's firearms industry comprises one company and employs 280 workers. The total turnover amounts to 86,800,000 euros.

Exports in 2021 amount to 67,143,000 euros. Finland primarily exports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with USA being the most significant market. Imports, on the other hand, reach 7,574,000 euros. The country mainly imports *sporting, hunting, or target-shooting shotguns with at least one smooth barrel* (Category: 930320), with Italy as a key supplier. As a result, Finland records a trade surplus of 59,569,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 27,231,000 euros.

Finland's ammunition industry consists of two companies and employs 370 workers, with a total turnover of 116,500,000 euros.

In 2021, Finland exports 37,504,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with USA as the key destination. The country imports 12,618,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Germany. This results in a trade surplus of 24,886,000 euros. The estimated wholesale value of the domestic market is 91,614,000 euros.

THE FINNISH FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Finland's firearms components industry includes 36 companies and employs 396 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Finland exports 6,535,000 euros, mainly *parts and accessories of shotguns or rifles of heading 9303, n.e.s* (Category: 930520), with USA as the key market. The country imports 12,529,000 euros, primarily *telescopic sights* (Category: 901310), mainly from Germany. This resulted in a trade deficit of 5,994,000 euros. Moreover, the generic suppliers were analyzed, resulting in 300 employees. Overall, considering both component manufacturers and generic suppliers, 136 companies and 696 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 1,334 workers. The estimated total turnover of auxiliary services is 209,351,259 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 35,285,368 euros) is also considered. Additionally, machinery exports have been considered, amounting to 9,000,000 euros for the specialized sector and 1,113,080 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Finland is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Finland has 308,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 136,736 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 2,938,281,080 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 625,064,479 euros. By adding the total expenditure by hunters (2,938,281,080 euros) to that of shooters (625,064,479 euros), we obtain a total of 3,563,345,559 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 906.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 14,561.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Finnish economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 6,593,919,840 euros and 31,333 employees.

Table 1.FI - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	292,224,736	0.12%
Induced economic impact	244,007,654	0.10%
TOTAL ECONOMIC IMPACT	536,232,390	0.22%
Value of sectors connected to final demand (hunting and shooting)	3,563,345,559	1.43%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	4,099,577,949	1.65%
Induced effect of connected sectors	2,494,341,891	1.00%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	6,593,919,840	2.65%

Table 2.FI - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Finland	% of total employment in manufacturing and services
Sector employees + Suppliers	2,680	0.16%	0.24%
Induced employment impact	2,359	0.14%	0.21%
TOTAL EMPLOYMENT IMPACT	5,039	0.30%	0.45%
Employees of the sectors connected to final demand (hunting and shooting)	15,467	0.93%	1.38%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	20,506	1.23%	1.83%
Induced effect of connected sectors	10,827	0.65%	0.97%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	31,333	1.88%	2.80%

FRANCE

OVERVIEW OF THE FRENCH PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

France's firearms industry comprises seven companies and employs 200 workers. The total turnover amounts to 18,000,000 euros.

Exports in 2021 amount to 7,669,548 euros. France primarily exports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Saudi Arabia being the most significant market. Imports, on the other hand, reach 55,424,075 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Italy as a key supplier. As a result, France records a trade deficit of 47,754,527 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 65,754,527 euros.

France's ammunition industry consists of seven companies and employs 450 workers, with a total turnover of 100,000,000 euros.

In 2021, France exports 60,321,000 euros, primarily consisting of *parts of cartridges for smooth-barrelled shotguns* (Category: 930629), with Italy as the key destination. The country imports 54,362,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Germany. This results in a trade surplus of 5,959,000 euros. The estimated wholesale value of the domestic market is 94,041,000 euros.

THE FRENCH FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

France's firearms components industry includes 26 companies and employs 277 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, France exports 70,125,000 euros, mainly *telescopic sights* (Category: 901310), with Belgium as the key market. The country imports 59,290,000 euros, primarily *telescopic sights* (Category: 901310), mainly from Sweden. This resulted in a trade surplus of 10,835,000 euros. Moreover, the generic suppliers were analyzed, resulting in 213 employees. Overall, considering both component manufacturers and generic suppliers, 97 companies and 490 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 6,146 workers. The estimated total turnover of auxiliary services is 383,293,308 euros. To measure the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 68,926,398 euros) is also considered. Additionally, machinery exports have been considered, amounting to 1,800,000 euros for the specialized sector and 5,194,372 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in France is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. France has 1,100,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 621,270 shooters.

In total, the **annual expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 5,179,611,872 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 4,111,578,385 euros. By adding the total expenditure by hunters (5,179,611,872 euros) to that of shooters (4,111,578,385 euros), we obtain a total of 9,291,190,257 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 7,691.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 65,481.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the French economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 16,363,488,371 euros and 138,091 employees.

Table 1.FR - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	309,790,155	0.01%
Induced economic impact	258,674,780	0.01%
TOTAL ECONOMIC IMPACT	568,464,935	0.02%
Value of sectors connected to final demand (hunting and shooting)	9,291,190,257	0.37%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	9,859,655,191	0.39%
Induced effect of connected sectors	6,503,833,180	0.26%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	16,363,488,371	0.65%

Table 2.FR - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in France	% of total employment in manufacturing and services
Sector employees + Suppliers	7,286	0.04%	0.07%
Induced employment impact	6,412	0.03%	0.06%
TOTAL EMPLOYMENT IMPACT	13,698	0.07%	0.12%
Employees of the sectors connected to final demand (hunting and shooting)	73,172	0.37%	0.66%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	86,870	0.44%	0.79%
Induced effect of connected sectors	51,221	0.26%	0.47%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	138,091	0.70%	1.25%

GERMANY

OVERVIEW OF THE GERMAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Germany's firearms industry comprises twenty-five companies and employs 5,000 workers. The total turnover amounts to 564,142,000 euros.

Exports in 2021 amount to 216,488,000 euros. Germany primarily exports *Revolvers and Pistols* (Category: 930200), with USA being the most significant market. Imports, on the other hand, reach 43,941,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Finland as a key supplier. As a result, Germany records a trade surplus of 172,547,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 391,595,000 euros.

Germany's ammunition industry consists of eight companies and employs 3,000 workers. The total turnover amounts to 238,109,000 euros.

In 2021, Germany exports 180,116,000 euros, primarily consisting of *parts of cartridges for smooth-barrelled shotguns* (Category: 930629), with USA as the key destination. The country imports 85,605,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from USA. This results in a trade surplus of 94,511,000 euros. The estimated wholesale value of the domestic market is 143,598,000 euros.

THE GERMAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Germany's firearms components industry includes 6 companies and employs 66 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Germany exports 186,175,000 euros, mainly *telescopic sights* (Category: 901310), with USA as the key market. The country imports 113,117,000 euros, primarily *telescopic sights* (Category: 901310), mainly from China. This resulted in a trade surplus of 73,058,000 euros. Moreover, the generic suppliers were analyzed, resulting in 50 employees. Overall, considering both component manufacturers and generic suppliers, 23 companies and 116 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 8,201 workers. The estimated total turnover of auxiliary services is 853,550,532 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 169,934,574 euros) is also considered. Additionally, machinery exports have been considered, amounting to 1,800,000 euros for the specialized sector and 12,243,877 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Germany is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Germany has 407,360 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 3,549,787 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts 3,489,081,387 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 29,414,212,285 euros. By adding the total expenditure by hunters (3,489,081,387 euros) to that of shooters (29,414,212,285 euros), we obtain a total of 32,903,293,672 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 10,685.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 128,913.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the German economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 58,332,804,138 euros and 267,992 employees.

Table 1.DE - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	1,306,378,690	0.04%
Induced economic impact	1,090,826,206	0.03%
TOTAL ECONOMIC IMPACT	2,397,204,896	0.07%
Value of sectors connected to final demand (hunting and shooting)	32,903,293,672	0.89%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	35,300,498,568	0.96%
Induced effect of connected sectors	23,032,305,570	0.63%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	58,332,804,138	1.59%

Table 2.DE - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Germany	% of total employment in manufacturing and services
Sector employees + Suppliers	16,317	0.04%	0.06%
Induced employment impact	14,359	0.04%	0.05%
TOTAL EMPLOYMENT IMPACT	30,676	0.08%	0.11%
Employees of the sectors connected to final demand (hunting and shooting)	139,598	0.36%	0.50%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	170,274	0.44%	0.61%
Induced effect of connected sectors	97,718	0.25%	0.35%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	267,992	0.70%	0.96%

GREECE

OVERVIEW OF THE GREEK PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Greece's firearms industry comprises one company and employs 500 workers. The total turnover amounts to 118,236,793 euros.

Exports in 2021 amount to 663,000 euros. Greece primarily exports *sporting, hunting, and target-shooting shotguns with at least one smooth barrel* (Category: 930320), with Cyprus being the most significant market. Imports, on the other hand, reach 3,019,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns with at least one smooth barrel* (Category: 930320), with Italy as a key supplier. As a result, Greece records a trade deficit of 2,356,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 120,592,793 euros.

Greece's ammunition industry consists of one company and employs 63 workers. The total turnover 23,873,077 euros.

In 2021, Greece exports 12,414,000 euros, primarily consisting of *parts of cartridges for smooth-barrelled shotguns* (Category: 930629), with Italy as the key destination. The country imports 3,175,000 euros, primarily of *parts of cartridges for smooth-barrelled shotguns* (Category: 930629), mainly from Italy. This results in a trade surplus of 9,239,000 euros. The estimated wholesale value of the domestic market is 14,634,077 euros.

THE GREEK FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Greece's firearms components industry includes 21 companies and employs 236 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Greece exports 20,010,000 euros, mainly *telescopic sights* (Category: 901310), with Ukraine as the key market. The country imports 3,661,000 euros, primarily *parts and accessories for weapons excluding shotguns or rifles of heading 9303* (Category: 930599), mainly from USA. This resulted in a trade surplus of 16,349,000 euros. Moreover, the generic suppliers were analyzed, resulting in 180 employees. Overall, considering both component manufacturers and generic suppliers, 81 companies and 416 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 784 workers. The estimated total turnover of auxiliary services is 193,179,265 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 36,093,041 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 742,053 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Greece is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Greece has 145,800 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 62,019 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 1,497,228,560 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 285,776,137 euros. By adding the total expenditure by hunters (1,497,228,560 euros) to that of shooters (285,776,137 euros), we obtain a total of 1,783,004,697 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 2,332.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 13,190.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Greek economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 3,471,639,633 euros and 29,702 employees.

Table 1.EL - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	240,071,743	0.13%
Induced economic impact	200,459,905	0.11%
TOTAL ECONOMIC IMPACT	440,531,648	0.24%
Value of sectors connected to final demand (hunting and shooting)	1,783,004,697	0.97%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	2,223,536,345	1.20%
Induced effect of connected sectors	1,248,103,288	0.68%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	3,471,639,633	1.88%

Table 2.EL - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Greece	% of total employment in manufacturing and services
Sector employees + Suppliers	1,763	0.05%	0.14%
Induced employment impact	1,552	0.05%	0.12%
TOTAL EMPLOYMENT IMPACT	3,315	0.10%	0.26%
Employees of the sectors connected to final demand (hunting and shooting)	15,522	0.48%	1.21%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	18,837	0.58%	1.47%
Induced effect of connected sectors	10,865	0.34%	0.85%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	29,702	0.92%	2.32%

HUNGARY

OVERVIEW OF THE HUNGARIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Hungary's firearms industry comprises six companies and employs 92 workers. The total turnover amounts to 21,755,570 euros.

Exports in 2021 amount to 404,942 euros. Hungary primarily exports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Uzbekistan being the most significant market. Imports, on the other hand, reach 4,576,604 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Germany as a key supplier. As a result, Hungary records a trade deficit of 4,171,662 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 25,927,232 euros.

Hungary's ammunition industry consists of four companies and employs 450 workers. The total turnover amounts to 143,979,508 euros.

In 2021, Hungary exports 43,681,451 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with USA as the key destination. The country imports 22,609,445 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Germany. This results in a trade surplus of 21,072,006 euros. The estimated wholesale value of the domestic market is 122,907,502 euros.

THE HUNGARIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Hungary's firearms components industry includes 5 companies and employs 56 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Hungary exports 4,712,334 euros, mainly *telescopic sights* (Category: 901310), with Germany as the key market. The country's imports amount to 13,808,869 euros, primarily *telescopic sights* (Category: 901310), mainly from Lithuania. This resulted in a trade deficit of 9,096,535 euros. Moreover, the generic suppliers were analyzed, resulting in 42 employees. Overall, considering both component manufacturers and generic suppliers, 19 companies and 98 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 519 workers. The estimated total turnover of auxiliary services is 244,656,729 euros. To measure the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 43,685,606 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 3,710,266 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Hungary is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Hungary has 70,865 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 33,715 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 556,737,049 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 136,951,272 euros. By adding the total expenditure by hunters (556,737,049 euros) to that of shooters (136,951,272 euros), we obtain a total of 693,688,321 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 2,286.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 4,976.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Hungarian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 1,674,396,775 euros and 14,524 employees.

Table 1.HU - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	269,823,776	0.17%
Induced economic impact	225,302,853	0.15%
TOTAL ECONOMIC IMPACT	495,126,629	0.32%
Value of sectors connected to final demand (hunting and shooting)	693,688,321	0.45%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	1,188,814,950	0.77%
Induced effect of connected sectors	485,581,825	0.31%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	1,674,396,775	1.08%

Table 2.HU - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Hungary	% of total employment in manufacturing and services
Sector employees + Suppliers	1,159	0.04%	0.04%
Induced employment impact	1,020	0.03%	0.04%
TOTAL EMPLOYMENT IMPACT	2,179	0.07%	0.08%
Employees of the sectors connected to final demand (hunting and shooting)	7,262	0.22%	0.26%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	9,441	0.29%	0.34%
Induced effect of connected sectors	5,083	0.16%	0.18%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	14,524	0.45%	0.53%

IRELAND

OVERVIEW OF THE IRISH PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Ireland's firearms industry has no manufacturing companies.

Exports in 2021 amount to 17,518 euros. Ireland primarily exports *sporting, hunting, or target-shooting shotguns with at least one smooth barrel* (Category: 930320), with Iceland being the most significant market. Imports, on the other hand, reach 1,879,900 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Germany as a key supplier. As a result, Ireland records a trade deficit of 1,862,382 euros in the firearms sector.

Ireland's ammunition industry has no manufacturing companies.

In 2021, Ireland exports 35,000 euros, primarily consisting of *parts of cartridges for smooth-barrelled shotguns* (Category: 930629), with Egypt as the key destination. The country imports 1,433,000 euros, primarily *cartridges for smooth-barrelled shotguns* (Category: 930621), mainly from UK. This results in a trade deficit of 1,398,000 euros. The estimated wholesale value of the domestic market is 1,398,000 euros.

THE IRISH FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Ireland's firearms components industry includes one company and employs two workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Ireland exports 760,634 euros, mainly *parts and accessories for weapons and the like of heading no. 9301, 9303 or 9304* (Category: 930590), with USA as the key market. The country imports 3,084,955 euros, primarily *parts and accessories for weapons of heading 9303 or 9304* (Category: 930599), mainly from Germany. This resulted in a trade deficit of 2,324,321 euros. Moreover, the generic suppliers were analyzed, resulting in 9 employees. Overall, considering both component manufacturers and generic suppliers, 4 companies and 11 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 320 workers. The estimated total turnover of auxiliary services is 49,062,596 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 9,875,282 euros) is also considered.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Ireland is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Ireland has 350,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 11,205 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 2,356,838,156 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 41,508,757 euros. By adding the total expenditure by hunters (2,356,838,156 euros) to that of shooters (41,508,757 euros), we obtain a total 2,398,346,913 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 2,192.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 18,344.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Irish economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 4,102,272,731 euros and 35,534 employees.

Table 1.IE - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	13,669,198	0.00%
Induced economic impact	11,413,781	0.00%
TOTAL ECONOMIC IMPACT	25,082,979	0.01%
Value of sectors connected to final demand (hunting and shooting)	2,398,346,913	0.53%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	2,423,429,892	0.54%
Induced effect of connected sectors	1,678,842,839	0.37%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	4,102,272,731	0.91%

Table 2.IE - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Ireland	% of total employment in manufacturing and services
Sector employees + Suppliers	331	0.02%	0.04%
Induced employment impact	292	0.01%	0.03%
TOTAL EMPLOYMENT IMPACT	623	0.03%	0.07%
Employees of the sectors connected to final demand (hunting and shooting)	20,536	1.01%	2.22%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	21,159	1.04%	2.29%
Induced effect of connected sectors	14,375	0.71%	1.55%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	35,534	1.75%	3.84%

ITALY

OVERVIEW OF THE ITALIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Italy's firearms industry comprises 107 companies and employs 2,199 workers, producing 910,956 firearms annually (530,241 long guns, 243,068 short guns, 137,647 muzzle-loading). The total turnover amounts to 520,005,416 euros.

Exports in 2021 amount to 451,431,000 euros. Italy primarily exports *sporting, hunting, and target-shooting shotguns, with at least one smooth barrel* (Category: 930320), with USA being the most significant market. Imports, on the other hand, reach 22,454,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Belgium as a key supplier. As a result, Italy records a trade surplus of 428,977,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 91,028,416 euros.

Italy's ammunition industry consists of 125 companies and employs 1,129 workers. The sector produces 819,642,867 ammunitions annually, totaling 361,228,588 euros.

In 2021, Italy exports 157,251,000 euros, primarily consisting of *Cartridges for smooth-barrelled shotguns* (Category: 930621), with USA as the key destination. The country imports 48,159,000 euros, primarily *Parts of cartridges for smooth-barrelled shotguns* (Category: 930629), mainly from France. This results in a trade surplus of 109,092,000 euros. The estimated wholesale value of the domestic market is 252,136,588 euros.

THE ITALIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Italy's firearms components industry includes 152 companies and employs 1,553 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Italy exports 115,965,000 euros, mainly *parts and accessories for revolvers and pistols, n.e.s.* (Category: 930510), with USA as the key market. The country imports 33,663,000 euros, primarily *telescopic sights* (Category: 901310), mainly from China. This resulted in a trade surplus of 82,302,000 euros. Moreover, the generic suppliers were analyzed, resulting in 1,353 employees. Overall, considering both component manufacturers and generic suppliers, 574 companies and 2,906 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 3,847 workers. The estimated total turnover of auxiliary services is 686,897,854 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 105,367,649 euros) is also considered. Additionally, machinery exports have been considered, amounting to 7,200,000 euros for the specialized sector and 86,078,166 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Italy is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Italy has 533,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 354,026 shooters. In total, the annual expenditure by hunters, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 2,456,175,102 euros. For other shooting disciplines, the total expenditure by shooters (excluding the cost of firearms and ammunition) is 811,239,162 euros. By adding the total expenditure by hunters (2,456,175,102 euros) to that of shooters (811,239,162 euros), we obtain a total of 3,267,414,264 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 5,505.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 35,176.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Italian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 7,931,180,649 euros and 88,111 employees.

Table 1.IT - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	1,295,137,003	0.07%
Induced economic impact	1,081,439,397	0.06%
TOTAL ECONOMIC IMPACT	2,376,576,400	0.13%
Value of sectors connected to final demand (hunting and shooting)	3,267,414,264	0.18%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	5,643,990,664	0.31%
Induced effect of connected sectors	2,287,189,985	0.13%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	7,931,180,649	0.44%

Table 2.IT - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Italy	% of total employment in manufacturing and services
Sector employees + Suppliers	10,081	0.06%	0.08%
Induced employment impact	8,872	0.05%	0.07%
TOTAL EMPLOYMENT IMPACT	18,953	0.11%	0.14%
Employees of the sectors connected to final demand (hunting and shooting)	40,681	0.23%	0.31%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	59,634	0.34%	0.45%
Induced effect of connected sectors	28,477	0.16%	0.21%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	88,111	0.50%	0.66%

LATVIA

OVERVIEW OF THE LATVIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Latvia's firearms industry has no manufacturing companies.

Exports in 2021 amount to 528,000 euros. Latvia primarily exports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Lithuania being the most significant market. Imports, on the other hand, reach 1,675,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Germany as a key supplier. As a result, Latvia records a trade deficit of 1,147,000 euros in the firearms sector.

Latvia's ammunition industry consists of four companies and employs 67 workers. The total turnover is 21,436,949 euros.

In 2021, Latvia exports 1,106,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with Lithuania as the key destination. The country imports 23,383,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from USA. This results in a trade deficit of 22,277,000 euros. The estimated wholesale value of the domestic market is 43,713,949 euros.

THE LATVIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Latvia's firearms components industry includes 9 companies and employs 96 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Latvia exports 8,109,000 euros, mainly *telescopic sights* (Category: 901310), with UK as the key market. The country imports 11,119,000 euros, primarily *telescopic sights* (Category: 901310), mainly from Belarus. This resulted in a trade deficit of 3,010,000 euros. Moreover, the generic suppliers were analyzed, resulting in 72 employees. Overall, considering both component manufacturers and generic suppliers, 33 companies and 168 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 186 workers. The estimated total turnover of auxiliary services is 97,926,308 euros. To measure the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 16,994,737 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 1,484,106 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Latvia is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Latvia has 25,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 3,458 shooters. In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 278,120,295 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 15,788,428 euros. By adding the total expenditure by hunters (278,120,295 euros) to that of shooters (15,788,428 euros), we obtain a total of 293,908,723 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 877.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 1,643.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Latvian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 611,809,875 euros and 5,075 employees.

Table 1.LV - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	61,125,366	0.19%
Induced economic impact	51,039,680	0.16%
TOTAL ECONOMIC IMPACT	112,165,146	0.35%
Value of sectors connected to final demand (hunting and shooting)	293,908,723	0.91%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	406,073,769	1.26%
Induced effect of connected sectors	205,736,106	0.64%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	611,809,875	1.90%

Table 2.LV - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Latvia	% of total employment in manufacturing and services
Sector employees + Suppliers	441	0.06%	0.10%
Induced employment impact	370	0.05%	0.09%
TOTAL EMPLOYMENT IMPACT	791	0.11%	0.18%
Employees of the sectors connected to final demand (hunting and shooting)	2,520	0.36%	0.59%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	3,311	0.48%	0.77%
Induced effect of connected sectors	1,764	0.26%	0.41%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	5,075	0.74%	1.19%

LITHUANIA

OVERVIEW OF THE LITHUANIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Lithuania's firearms industry has no manufacturing companies.

Exports in 2021 amount to 574,000 euros. Lithuania primarily exports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Kyrgyzstan being the most significant market. Imports, on the other hand, reach 4,107,000 euros. The country mainly imports *revolvers and pistols* (Category: 930200), with Germany as a key supplier. As a result, Lithuania records a trade deficit of 3,533,000 euros in the firearms sector.

Lithuania's ammunition industry consists of two companies and employs 140 workers. The total turnover is 15,000,000 euros.

In 2021, Lithuania exports 11,669,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with Czech Republic as the key destination. The country imports 10,800,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Switzerland. This results in a trade surplus of 869,000 euros. The estimated wholesale value of the domestic market is 14,131,000 euros.

THE LITHUANIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Lithuania's firearms components industry includes 4 companies and employs 40 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Lithuania exports 65,876,000 euros, mainly *telescopic sights* (Category: 901310), with USA as the key market. The country imports 2,890,000 euros, primarily *telescopic sights* (Category: 901310), mainly from Czech Republic. This resulted in a trade surplus of 65,986,000 euros. Moreover, the generic suppliers were analyzed, resulting in 30 employees. Overall, considering both component manufacturers and generic suppliers, 14 companies and 70 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 219 workers. The estimated total turnover of auxiliary services is 46,537,452 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 7,967,809 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 742,053 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Lithuania is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Lithuania has 32,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 5,083 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 263,675,727 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 22,727,987 euros. By adding the total expenditure by hunters (263,675,727 euros) to that of shooters (22,727,987 euros), we obtain a total of 286,403,714 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 2,044.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 1,980.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Lithuanian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 661,374,779 euros and 7,647 employees.

Table 1.LT - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	95,089,082	0.17%
Induced economic impact	79,399,383	0.14%
TOTAL ECONOMIC IMPACT	174,488,465	0.31%
Value of sectors connected to final demand (hunting and shooting)	286,403,714	0.51%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	460,892,179	0.82%
Induced effect of connected sectors	200,482,600	0.35%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	661,374,779	1.17%

Table 2.LT - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Lithuania	% of total employment in manufacturing and services
Sector employees + Suppliers	429	0.04%	0.05%
Induced employment impact	377	0.03%	0.05%
TOTAL EMPLOYMENT IMPACT	806	0.07%	0.10%
Employees of the sectors connected to final demand (hunting and shooting)	4,024	0.34%	0.50%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	4,830	0.41%	0.60%
Induced effect of connected sectors	2,817	0.24%	0.35%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	7,647	0.65%	0.95%

LUXEMBOURG

OVERVIEW OF THE LUXEMBOURGISH PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Luxembourg's firearms industry comprises two companies and employs 30 workers. The total turnover amounts to 7,094,208 euros.

Exports in 2021 amount to 61,000 euros. Luxembourg primarily exports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Austria being the most significant market. Imports, on the other hand, reach 1,919,000 euros. The country mainly revolvers and pistols (Category: 930200), with Germany as a key supplier. As a result, Luxembourg records a trade deficit of 1,858,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 8,952,208 euros.

Luxembourg's ammunition industry has no manufacturing companies.

In 2021, Luxembourg exports 234,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with Netherlands as the key destination. The country imports 2,491,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Germany. This results in a trade deficit of 2,257,000 euros.

THE LUXEMBOURGISH FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Luxembourg's firearms components industry includes 1 company and employs 6 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Luxembourg exports 477,000 euros, mainly *telescopic sights* (Category: 901310), with Austria as the key market. The country imports 2,648,000 euros, primarily *telescopic sights* (Category: 901310), mainly from Germany. This resulted in a trade deficit of 2,171,000 euros. Moreover, the generic suppliers were analyzed, resulting in 9 employees. Overall, considering both component manufacturers and generic suppliers, 4 companies and 15 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 35 workers. The estimated total turnover of auxiliary services is 22,449,142 euros. To measure the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 3,873,596 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 742,053 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Luxembourg is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Luxembourg has 2,400 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 3,483 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 38,688,797 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 24,999,913 euros. By adding the total expenditure by hunters (38,688,797 euros) to that of shooters (24,999,913 euros), we obtain a total of 63,688,710 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 51.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 266.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Luxembourgish economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 135,130,704 euros and 689 employees.

Table 1.LU - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	14,637,546	0.02%
Induced economic impact	12,222,351	0.02%
TOTAL ECONOMIC IMPACT	26,859,897	0.04%
Value of sectors connected to final demand (hunting and shooting)	63,688,710	0.09%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	90,548,607	0.13%
Induced effect of connected sectors	44,582,097	0.06%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	135,130,704	0.19%

Table 2.LU - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Luxembourg	% of total employment in manufacturing and services
Sector employees + Suppliers	80	0.04%	0.07%
Induced employment impact	70	0.03%	0.06%
TOTAL EMPLOYMENT IMPACT	150	0.07%	0.13%
Employees of the sectors connected to final demand (hunting and shooting)	317	0.14%	0.27%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	467	0.21%	0.39%
Induced effect of connected sectors	222	0.10%	0.19%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	689	0.31%	0.58%

MALTA

OVERVIEW OF THE MALTESE PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Malta's firearms industry has no manufacturing companies.

Exports in 2021 amount to 79,000 euros. Malta primarily exports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Central African Republic being the most significant market. Imports, on the other hand, reach 1,128,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns, with at least one smooth barrel* (Category: 930320), with Italy as a key supplier. As a result, Malta records a trade deficit of 1,049,000 euros in the firearms sector.

Malta's ammunition industry consists of one company and employs 2 workers. The total turnover is 639,909 euros.

In 2021, Malta exports 24,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with Central African Republic as the key destination. The country imports 815,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Republic of Korea. This results in a trade deficit of 791,000 euros. The estimated wholesale value of the domestic market is 1,430,909 euros.

THE MALTESE FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Malta's firearms components industry employs 1 worker. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes.

In 2021, Malta exports 56,551 euros, mainly *telescopic sights* (Category: 901310), with Central African Republic as the key market. The country imports 178,182 euros, primarily *parts and accessories of shotguns or rifles of heading 9303* (Category: 930520), mainly from Italy. This resulted in a trade deficit of 121,631 euros. Moreover, the generic suppliers were analyzed, resulting in 1 employee. Overall, considering both component manufacturers and generic suppliers, 2 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 105 workers. The estimated total turnover of auxiliary services is 6,690,314 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 1,888,330 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 371,027 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Malta is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Malta has 12,500 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 13,789 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 181,462,984 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 55,032,835 euros. By adding the total expenditure by hunters (181,462,984 euros) to that of shooters (55,032,835 euros), we obtain a total of 236,495,819 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 250.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 990.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Maltese economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 407,420,029 euros and 2,313 employees.

Table 1.MT - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	2,930,320	0.02%
Induced economic impact	2,446,817	0.01%
TOTAL ECONOMIC IMPACT	5,377,137	0.03%
Value of sectors connected to final demand (hunting and shooting)	236,495,819	1.42%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	241,872,956	1.45%
Induced effect of connected sectors	165,547,073	0.99%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	407,420,029	2.44%

Table 2.MT - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Malta	% of total employment in manufacturing and services
Sector employees + Suppliers	109	0.05%	0.13%
Induced employment impact	96	0.04%	0.12%
TOTAL EMPLOYMENT IMPACT	205	0.09%	0.25%
Employees of the sectors connected to final demand (hunting and shooting)	1,240	0.56%	1.50%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	1,445	0.65%	1.74%
Induced effect of connected sectors	868	0.39%	1.05%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	2,313	1.04%	2.79%

NORWAY

OVERVIEW OF THE NORWEGIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Norway's firearms industry comprises one company and employs 33 workers. The total turnover amounts to 7,803,628 euros.

Exports in 2021 amount to 474,000 euros. Norway primarily exports *revolvers and pistols* (Category: 930200), with USA being the most significant market. Imports, on the other hand, reach 10,871,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns, with at least one smooth barrel* (Category: 930320), with Italy as a key supplier. As a result, Norway records a trade deficit of 10,397,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 18,200,628 euros.

Norway's ammunition industry has no manufacturing companies.

In 2021, Norway exports 54,927,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with USA as the key destination. The country imports 51,687,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Sweden. This results in a trade surplus of 3,240,000 euros.

THE NORWEGIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Norway's firearms components industry includes 17 companies and employs 189 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Norway exports 16,008,000 euros, mainly *parts and accessories of shotguns or rifles of heading 9303, n.e.s* (Category: 930520), with Germany as the key market. The country imports 15,965,000 euros, primarily *telescopic sights* (Category: 901310), mainly from Germany. This resulted in a trade surplus of 43,000 euros. Moreover, the generic suppliers were analyzed, resulting in 144 employees. Overall, considering both component manufacturers and generic suppliers, 65 companies and 333 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 1,051 workers. The estimated total turnover of auxiliary services is 182,919,248 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 32,391,466 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 371,027 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Norway is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Norway has 136,900 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 110,855 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 1,808,202,112 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 635,658,562 euros. By adding the total expenditure by hunters (1,808,202,112 euros) to that of shooters (635,658,562 euros), we obtain a total of 2,443,860,674 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 1,024.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 9,670.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Norwegian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 4,305,297,194 euros and 20,844 employees.

Table 1.NO - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	82,143,895	0.02%
Induced economic impact	68,590,153	0.02%
TOTAL ECONOMIC IMPACT	150,734,048	0.04%
Value of sectors connected to final demand (hunting and shooting)	2,443,860,674	0.57%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	2,594,594,722	0.61%
Induced effect of connected sectors	1,710,702,472	0.40%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	4,305,297,194	1.01%

Table 2.NO - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Norway	% of total employment in manufacturing and services
Sector employees + Suppliers	1,417	0.08%	0.18%
Induced employment impact	1,247	0.07%	0.16%
TOTAL EMPLOYMENT IMPACT	2,664	0.15%	0.34%
Employees of the sectors connected to final demand (hunting and shooting)	10,694	0.59%	1.38%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	13,358	0.73%	1.72%
Induced effect of connected sectors	7,486	0.41%	0.97%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	20,844	1.15%	2.69%

POLAND

OVERVIEW OF THE POLISH PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Poland's firearms industry comprises four companies and employs 149 workers, producing 99,293 firearms. The total turnover amounts to 23,177,465 euros.

Exports in 2021 amount to 8,228,000 euros. Poland primarily exports *Firearms and similar devices which operate by the firing of an explosive charge* (Category: 930390), with USA being the most significant market. Imports, on the other hand, reach 20,734,000 euros. The country mainly imports *revolvers and pistols* (Category: 930200), with Czech Republic as a key supplier. As a result, Poland records a trade deficit of 12,506,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 35,683,465 euros.

Poland's ammunition industry consists of five companies and employs 153 workers. The sector produces 2,629 tons of ammunition, totaling 58,521,154 euros.

In 2021, Poland exports 30,431,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with Ukraine as the key destination. The country imports 71,226,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Luxembourg. This results in a trade deficit of 40,795,000 euros. The estimated wholesale value of the domestic market is 99,316,154 euros.

THE POLISH FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Poland's firearms components industry includes 6 companies and employs 69 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Poland exports 5,878,000 euros, mainly: *part and accessories for weapons and the like of heading 9303 or 9304, n.e.s* (Category: 930599), with UK as the key market. The country imports 33,415,000 euros, primarily *telescopic sights* (Category: 901310), mainly from Japan. This resulted in a trade deficit of 27,537,000 euros. Moreover, the generic suppliers were analyzed, resulting in 51 employees. Overall, considering both component manufacturers and generic suppliers, 23 companies and 120 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 1,863 workers. The estimated total turnover of auxiliary services is 317,273,066 euros. To measure the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 56,035,198 euros) is also considered. Additionally, machinery exports have been considered, amounting to 3,339,239 euros.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Poland is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Poland has 130,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 311,586 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 1,266,368,648 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 2,522,364,056 euros. By adding the total expenditure by hunters (1,266,368,648 euros) to that of shooters (2,522,364,056 euros), we obtain a total of 3,788,732,704 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 10,317.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 12,602.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Polish economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 6,791,127,031 euros and 43,257 employees.

Table 1.PL - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	190,889,065	0.03%
Induced economic impact	159,392,369	0.03%
TOTAL ECONOMIC IMPACT	350,281,434	0.06%
Value of sectors connected to final demand (hunting and shooting)	3,788,732,704	0.65%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	4,139,014,138	0.71%
Induced effect of connected sectors	2,652,112,893	0.45%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	6,791,127,031	1.16%

Table 2.PL - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Poland	% of total employment in manufacturing and services
Sector employees + Suppliers	2,285	0.02%	0.02%
Induced employment impact	2,010	0.02%	0.02%
TOTAL EMPLOYMENT IMPACT	4,295	0.04%	0.04%
Employees of the sectors connected to final demand (hunting and shooting)	22,919	0.20%	0.23%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	27,214	0.24%	0.27%
Induced effect of connected sectors	16,043	0.14%	0.16%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	43,257	0.38%	0.42%

PORTUGAL

OVERVIEW OF THE PORTUGUESE PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Portugal's firearms industry comprises one company and employs 500 workers, producing 150,000 firearms annually. The total turnover amounts to 80,000,000 euros.

Exports in 2021 amount to 30,358,000 euros. Portugal primarily exports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with USA being the most significant market. Imports, on the other hand, reach 3,714,000 euros. The country mainly imports *Sporting, hunting or target-shooting shotguns, with at least one smooth barrel* (Category: 930320), with Italy as a key supplier. As a result, Portugal records a trade surplus of 26,644,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 53,356,000 euros.

Portugal's ammunition industry consists of one company and employs 6 workers. The sector produces 4,000,000 ammunitions, totaling 8,000,000 euros.

In 2021, Portugal exports 164,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with Angola as the key destination. The country imports 5,016,000 euros, primarily *cartridges for smooth-barrelled shotguns* (Category: 930621), mainly from Spain. This results in a trade deficit of 4,852,000 euros. The estimated wholesale value of the domestic market is 12,852,000 euros.

THE PORTUGUESE FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Portugal's firearms components industry includes 4 companies and employs 40 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Portugal exports 31,863,000 euros, mainly *parts and accessories of shotguns or rifles of heading 9303, n.e.s* (Category: 930520), with USA as the key market. The country imports 28,894,000 euros, especially *parts and accessories of shotguns or rifles of heading 9303, n.e.s* (Category: 930520), mainly from Belgium. This resulted in a trade surplus of 2,969,000 euros. Moreover, the generic suppliers were analyzed, resulting in 30 employees. Overall, considering both component manufacturers and generic suppliers, 14 companies and 70 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 655 workers. The estimated total turnover of auxiliary services is 115,568,492 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 19,717,735 euros) is also considered. Additionally, machinery exports have been considered, amounting to 9,000,000 euros for the specialized sector and 1,113,080 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Portugal is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Portugal has 115,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 78,811 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 699,713,920 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 351,389,429 euros. By adding the total expenditure by hunters (699,713,920 euros) to that of shooters (351,389,429 euros), we obtain a total of 1,051,103,349 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 1,830.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 7,960.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Portuguese economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 2,097,828,800 euros and 18,958 employees.

Table 1.PT - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	169,456,734	0.08%
Induced economic impact	141,496,373	0.07%
TOTAL ECONOMIC IMPACT	310,953,107	0.14%
Value of sectors connected to final demand (hunting and shooting)	1,051,103,349	0.49%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	1,362,056,456	0.63%
Induced effect of connected sectors	735,772,344	0.34%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	2,097,828,800	0.97%

Table 2.PT - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Portugal	% of total employment in manufacturing and services
Sector employees + Suppliers	1,231	0.03%	0.05%
Induced employment impact	1,084	0.03%	0.04%
TOTAL EMPLOYMENT IMPACT	2,315	0.06%	0.09%
Employees of the sectors connected to final demand (hunting and shooting)	9,790	0.24%	0.39%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	12,105	0.29%	0.48%
Induced effect of connected sectors	6,853	0.17%	0.27%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	18,958	0.46%	0.74%

ROMANIA

OVERVIEW OF THE ROMANIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Romania's firearms industry comprises three companies and employs 259 workers, producing 136,963 firearms annually. The total turnover amounts to 40,172,572 euros.

Exports in 2021 amount to 14,261,263 euros. Romania primarily exports *revolvers and pistols* (Category: 930200), with USA being the most significant market. Imports, on the other hand, reach 6,989,706 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Germany as a key supplier. As a result, Romania records a trade surplus of 7,271,557 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 32,901,015 euros.

Romania's ammunition industry has no manufacturing companies.

In 2021, Romania exports 2,590,352 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with USA as the key destination. The country imports 5,764,069 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Turkey. This results in a trade deficit of 3,173,717 euros.

THE ROMANIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Romania's firearms components industry includes 9 companies and employs 103 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Romania exports 8,745,653 euros, mainly *parts and accessories for weapons and the like of heading no. 9301, 9303 or 9304, n.e.s* (Category: 930590), with USA as the key market. The country imports 7,461,681 euros, primarily *parts and accessories for weapons and the like of heading no. 9301, 9303 or 9304, n.e.s* (Category: 930590), mainly from USA. This resulted in a trade surplus of 1,283,972 euros. Moreover, the generic suppliers were analyzed, resulting in 78 employees. Overall, considering both component manufacturers and generic suppliers, 35 companies and 181 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 330 workers. The estimated total turnover of auxiliary services is 71,822,595 euros. To measure the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 12,839,604 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 1,113,080 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Romania is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Romania has 70,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 7,526 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 619,636,203 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 38,551,758 euros. By adding the total expenditure by hunters (619,636,203 euros) to that of shooters (38,551,758 euros), we obtain a total of 658,187,961 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 5,064.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 8,213.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Romanian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 1,252,244,761 euros and 24,019 employees.

Table 1.RO - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	72,656,800	0.03%
Induced economic impact	60,668,428	0.03%
TOTAL ECONOMIC IMPACT	133,325,228	0.06%
Value of sectors connected to final demand (hunting and shooting)	658,187,961	0.27%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	791,513,189	0.33%
Induced effect of connected sectors	460,731,572	0.19%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	1,252,244,761	0.52%

Table 2.RO - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Romania	% of total employment in manufacturing and services
Sector employees + Suppliers	770	0.02%	0.02%
Induced employment impact	678	0.01%	0.02%
TOTAL EMPLOYMENT IMPACT	1,448	0.03%	0.04%
Employees of the sectors connected to final demand (hunting and shooting)	13,277	0.28%	0.34%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	14,725	0.31%	0.38%
Induced effect of connected sectors	9,294	0.20%	0.24%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	24,019	0.51%	0.61%

SLOVAKIA

OVERVIEW OF THE SLOVAKIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Slovakia's firearms industry comprises three companies and employs 375 workers. The total turnover amounts to 58,230,986 euros.

Exports in 2021 amount to 20,672,000 euros. Slovakia primarily exports *revolvers and pistols* (Category: 930200), with USA being the most significant market. Imports, on the other hand, reach 3,787,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Germany as a key supplier. As a result, Slovakia records a trade surplus of 16,885,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 41,345,986 euros.

Slovakia's ammunition industry consists of two companies and employs 300 workers. The total turnover amounts to 114,734,615 euros.

In 2021, Slovakia exports 59,662,000 euros, primarily consisting *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with Saudi Arabia as the key destination. The country imports 39,013,000 euros, primarily *Parts of cartridges for smooth-barrelled shotguns* (Category: 930629), mainly from Czech Republic. This results in a trade surplus of 20,649,000 euros. The estimated wholesale value of the domestic market is 94,085,615 euros.

THE SLOVAKIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Slovakia's firearms components industry includes 4 companies and employs 46 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Slovakia exports 3,911,000 euros, mainly *parts and accessories for revolvers and pistols, n.e.s* (Category: 930510), with Russian Federation as the key market. The country imports 26,583,000 euros, primarily *parts and accessories for revolvers and pistols, n.e.s* (Category: 930510), mainly from Austria. This resulted in a trade deficit of 22,672,000 euros. Moreover, the generic suppliers were analyzed, resulting in 36 employees. Overall, considering both component manufacturers and generic suppliers, 16 companies and 82 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 454 workers. The estimated total turnover of auxiliary services is 247,588,059 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 43,659,077 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 1,855,133 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Slovakia is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Slovakia has 55,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 21,212 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 612,762,813 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 160,939,907 euros. By adding the total expenditure by hunters (612,762,813 euros) to that of shooters (160,939,907 euros), we obtain a total of 773,702,720 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 1,777.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 4,533.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Slovakian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 1,789,108,041 euros and 13,003 employees.

Table 1.SK - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	258,208,947	0.25%
Induced economic impact	215,604,470	0.21%
TOTAL ECONOMIC IMPACT	473,813,417	0.46%
Value of sectors connected to final demand (hunting and shooting)	773,702,720	0.76%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	1,247,516,137	1.22%
Induced effect of connected sectors	541,591,904	0.53%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	1,789,108,041	1.75%

Table 2.SK - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Slovakia	% of total employment in manufacturing and services
Sector employees + Suppliers	1,211	0.07%	0.07%
Induced employment impact	1,065	0.06%	0.06%
TOTAL EMPLOYMENT IMPACT	2,276	0.13%	0.13%
Employees of the sectors connected to final demand (hunting and shooting)	6,310	0.36%	0.36%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	8,586	0.48%	0.50%
Induced effect of connected sectors	4,417	0.25%	0.26%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	13,003	0.73%	0.75%

SLOVENIA

OVERVIEW OF THE SLOVENIAN PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Slovenia's firearms industry comprises four companies and employs 137 workers. The total turnover amounts to 21,288,059 euros.

Exports in 2021 amount to 7,557,261 euros. Slovenia primarily exports *revolvers and pistols* (Category: 930200), with USA being the most significant market. Imports, on the other hand, reach 2,998,809 euros. The country mainly imports *revolvers and pistols* (Category: 930200), with Italy as a key supplier. As a result, Slovenia records a trade surplus of 4,558,452 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 16,729,607 euros.

Slovenia's ammunition industry consists of three companies and employs 68 workers. The total turnover amounts to 26,086,329 euros.

In 2021, Slovenia exports 13,564,891 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with USA as the key destination. The country imports 9,215,026 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Bosnia and Herzegovina. This results in a trade surplus of 4,349,865 euros. The estimated wholesale value of the domestic market is 21,736,464 euros.

THE SLOVENIAN FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Slovenia's firearms components industry includes 5 companies and employs 58 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Slovenia exports 4,876,278 euros, mainly *telescopic sights* (Category: 901310), with Russian Federation as the key market. The country imports 10,846,928 euros, primarily *parts and accessories for weapons and the like of heading no. 9301, 9303 or 9304, n.e.s* (Category: 930590), mainly from Bosnia and Herzegovina. This resulted in a trade deficit of 5,970,650 euros. Moreover, the generic suppliers were analyzed, resulting in 45 employees. Overall, considering both component manufacturers and generic suppliers, 20 companies and 103 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 156 workers. The estimated total turnover of auxiliary services is 72,349,001 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 12,430,746 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 2,597,186 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Slovenia is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Slovenia has 22,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 6,601 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 221,410,535 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 21,753,612 euros. By adding the total expenditure by hunters (221,410,535 euros) to that of shooters (21,753,612 euros), we obtain a total of 243,164,147 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 385.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 1,942.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Slovenian economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 557,382,323 euros and 4,827 employees.

Table 1.SI - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	78,475,898	0.15%
Induced economic impact	65,527,375	0.13%
TOTAL ECONOMIC IMPACT	144,003,273	0.28%
Value of sectors connected to final demand (hunting and shooting)	243,164,147	0.47%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	387,167,420	0.74%
Induced effect of connected sectors	170,214,903	0.33%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	557,382,323	1.07%

Table 2.SI - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Slovenia	% of total employment in manufacturing and services
Sector employees + Suppliers	463	0.06%	0.06%
Induced employment impact	408	0.05%	0.05%
TOTAL EMPLOYMENT IMPACT	871	0.12%	0.11%
Employees of the sectors connected to final demand (hunting and shooting)	2,327	0.31%	0.30%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	3,198	0.42%	0.41%
Induced effect of connected sectors	1,629	0.22%	0.21%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	4,827	0.64%	0.61%

SPAIN

OVERVIEW OF THE SPANISH PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Spain's firearms industry comprises nine companies and employs 396 workers. The total turnover amounts to 176,513,340 euros.

Exports in 2021 amount to 60,514,000 euros. Spain primarily exports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with the USA being the most significant market. Imports, on the other hand, reach 25,077,000 euros. The country mainly imports *Sporting, hunting or target-shooting shotguns, with at least one smooth barrel* (Category: 930320), with Italy as a key supplier. As a result, Spain records a trade surplus of 35,437,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 141,076,340 euros.

Spain's ammunition industry consists of six companies and employs 253 workers. The total turnover amounts to 156,000,000 euros.

In 2021, Spain exports 100,705,000 euros, primarily consisting of *Cartridges for smooth-barrelled shotguns* (Category: 930621), with the USA as the key destination. The country imports 49,035,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Switzerland. This results in a trade surplus of 51,670,000 euros. The estimated wholesale value of the domestic market is 104,330,000 euros.

THE SPANISH FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Spain's firearms components industry includes 10 companies and employs 106 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Spain exports 26,150,000 euros, mainly *parts and accessories of shotguns or rifles of heading 9303, n.e.s* (Category: 930520), with the Czech Republic as the key market. The country imports 41,258,000 euros, primarily *parts and accessories of shotguns or rifles of heading 9303, n.e.s* (Category: 930520), mainly from the Czech Republic. This resulted in a trade deficit of 15,108,000 euros. Moreover, the generic suppliers were analyzed, resulting in 81 employees. Overall, considering both component manufacturers and generic suppliers, 37 companies and 187 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 2,777 workers. The estimated total turnover of auxiliary services is 446,943,957 euros. To measure the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 79,259,820 euros) is also considered. Additionally, machinery exports have been considered, amounting to 5,565,399 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Spain is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Spain has 1,000,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 173,522 shooters.

In total, the **annual expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 11,614,412,024 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 926,657,575 euros. By adding the total expenditure by hunters (11,614,412,024 euros) to that of shooters (926,657,575 euros), we obtain a total of 12,541,069,599 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 6,001.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 58,508.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Spanish economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 22,258,729,929 euros and 116,457 employees.

Table 1.ES - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	511,668,453	0.04%
Induced economic impact	427,243,158	0.03%
TOTAL ECONOMIC IMPACT	938,911,611	0.08%
Value of sectors connected to final demand (hunting and shooting)	12,541,069,599	1.03%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	13,479,981,210	1.10%
Induced effect of connected sectors	8,778,748,719	0.72%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	22,258,729,929	1.82%

Table 2.ES - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Spain	% of total employment in manufacturing and services (excluding public services)
Sector employees + Suppliers	3,613	0.02%	0.05%
Induced employment impact	3,179	0.02%	0.04%
TOTAL EMPLOYMENT IMPACT	6,792	0.05%	0.09%
Employees of the sectors connected to final demand (hunting and shooting)	64,509	0.43%	0.87%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	71,301	0.48%	0.96%
Induced effect of connected sectors	45,156	0.30%	0.61%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	116,457	0.78%	1.57%

SWEDEN

OVERVIEW OF THE SWEDISH PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Sweden's firearms industry comprises four companies and employs 26 workers. The total turnover amounts to 3,980,282 euros.

Exports in 2021 amount to 1,413,000 euros. Sweden primarily exports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Canada being the most significant market. Imports, on the other hand, reach 14,298,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns* (Category: 930330), with Finland as a key supplier. As a result, Sweden records a trade deficit of 12,885,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 16,865,282 euros.

Sweden's ammunition industry consists of two companies and employs 276 workers. The sector produces 3,838 tons of ammunition annually, totaling 82,926,923 euros.

In 2021, Sweden exports 43,122,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with USA as the key destination. The country imports 14,775,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Germany. This results in a trade surplus of 28,347,000 euros. The estimated wholesale value of the domestic market is 54,579,923 euros.

THE SWEDISH FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Sweden's firearms components industry includes 101 companies and employs 1,107 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Sweden exports 93,719,000 euros, mainly *telescopic sights* (Category: 901310), with USA as the key market. The country imports 25,154,000 euros, primarily *telescopic sights* (Category: 901310), mainly from Germany. This resulted in a trade surplus of 68,565,000 euros. Moreover, the generic suppliers were analyzed, resulting in 837 employees. Overall, considering both component manufacturers and generic suppliers, 380 companies and 1,944 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 2,337 workers. The estimated total turnover of auxiliary services is 143,268,888 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 27,154,463 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 2,226,159 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Sweden is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Sweden has 290,000 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 346,718 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 3,329,112,798 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 2,077,994,128 euros. By adding the total expenditure by hunters (3,329,112,79 euros) to that of shooters (2,077,994,128 euros), we obtain a total of 5,407,106,926 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 2,093.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 22,588.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Swedish economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 9,622,676,899 euros and 50,576 employees.

Table 1.SE - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	234,656,744	0.04%
Induced economic impact	195,938,381	0.04%
TOTAL ECONOMIC IMPACT	430,595,125	0.08%
Value of sectors connected to final demand (hunting and shooting)	5,407,106,926	1.00%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	5,837,702,051	1.08%
Induced effect of connected sectors	3,784,974,848	0.70%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	9,622,676,899	1.81%

Table 2.SE - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Sweden	% of total employment in manufacturing and services
Sector employees + Suppliers	4,584	0.11%	0.22%
Induced employment impact	4,034	0.10%	0.19%
TOTAL EMPLOYMENT IMPACT	8,618	0.22%	0.41%
Employees of the sectors connected to final demand (hunting and shooting)	24,681	0.62%	1.17%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	33,299	0.83%	1.58%
Induced effect of connected sectors	17,277	0.43%	0.82%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	50,576	1.26%	2.40%

SWITZERLAND

OVERVIEW OF THE SWISS PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Switzerland's firearms industry comprises six companies and employs 293 workers. The total turnover amounts to 45,439,437 euros.

Exports in 2021 amount to 16,131,000 euros. Switzerland primarily exports *revolvers and pistols* (Category: 930200), with USA being the most significant market. Imports, on the other hand, reach 20,762,000 euros. The country mainly imports *revolvers and pistols* (Category: 930200), with Germany as a key supplier. As a result, Switzerland records a trade deficit of 4,631,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 50,070,437 euros.

Switzerland's ammunition industry consists of two companies and employs 450 workers. The total turnover amounts to 310,348,077 euros.

In 2021, Switzerland exports 161,381,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with Germany as the key destination. The country imports 23,089,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Germany. This results in a trade surplus of 138,292,000 euros. The estimated wholesale value of the domestic market is 172,056,077 euros.

THE SWISS FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Switzerland's firearms components industry includes 9 companies and employs 98 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, Switzerland exports 8,327,000 euros, mainly *parts and accessories for revolvers and pistols, n.e.s.* (Category: 930510), with Germany as the key market. The country imports 22,063,000 euros, primarily *telescopic sights* (Category: 901310), mainly from Germany. This resulted in a trade deficit of 13,736,000 euros. Moreover, the generic suppliers were analyzed, resulting in 75 employees. Overall, considering both component manufacturers and generic suppliers, 34 companies and 173 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 911 workers. The estimated total turnover of auxiliary services is 368,683,527 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 66,164,643 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 2,968,213 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in Switzerland is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. Switzerland has 30,500 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 46,115 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 398,841,801 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 363,548,492 euros. By adding the total expenditure by hunters (398,841,801 euros) to that of shooters (363,548,492 euros), we obtain a total of 762,390,292 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 515.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 2,603.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Swiss economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 2,131,806,521 euros and 8,735 employees.

Table 1.CH - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	455,445,789	0.07%
Induced economic impact	380,297,234	0.06%
TOTAL ECONOMIC IMPACT	835,743,023	0.12%
Value of sectors connected to final demand (hunting and shooting)	762,390,293	0.11%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	1,598,133,316	0.23%
Induced effect of connected sectors	533,673,205	0.08%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	2,131,806,521	0.31%

Table 2.CH - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Switzerland	% of total employment in manufacturing and services
Sector employees + Suppliers	1,827	0.06%	0.08%
Induced employment impact	1,608	0.05%	0.07%
TOTAL EMPLOYMENT IMPACT	3,435	0.10%	0.15%
Employees of the sectors connected to final demand (hunting and shooting)	3,118	0.10%	0.13%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	6,553	0.20%	0.28%
Induced effect of connected sectors	2,182	0.07%	0.09%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	8,735	0.27%	0.38%

THE NETHERLANDS

OVERVIEW OF THE NETHERLANDISH PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

Netherlands' firearms industry has no manufacturing companies.

Exports in 2021 amount to 1,452,000 euros. The Netherlands primarily export *Sporting, hunting or target-shooting shotguns, with at least one smooth barrel* (Category: 930320), with Belgium being the most significant market. Imports, on the other hand, reach 6,388,000 euros. The country mainly imports *Sporting, hunting or target-shooting shotguns, with at least one smooth barrel* (Category: 930320), with Italy as a key supplier. As a result, the Netherlands record a trade deficit of 4,936,000 euros in the firearms sector.

Netherlands' ammunition industry consists of one company and employs 99 workers. The total turnover amounts to 31,721,154 euros.

In 2021, the Netherlands export 16,495,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with USA as the key destination. The country imports 42,093,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Germany. This results in a trade deficit of 25,598,000 euros. The estimated wholesale value of the domestic market is 57,319,154 euros.

THE NETHERLANDISH FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

Netherlands' firearms components industry includes 8 companies and employs 86 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, the Netherlands export 7,312,000 euros, mainly *telescopic sights* (Category: 901310), with Germany as the key market. The country imports 44,247,000 euros, primarily *telescopic sights* (Category: 901310), mainly from UK. This resulted in a trade deficit of 36,935,000 euros. Moreover, the generic suppliers were analyzed, resulting in 66 employees. Overall, considering both component manufacturers and generic suppliers, 30 companies and 152 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 473 workers. The estimated total turnover of auxiliary services is 154,592,437 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 27,021,127 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 371,027 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in the Netherlands is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. The Netherlands have 28,170 registered hunters and a large community of sport shooters engaged in various disciplines, such as clay target shooting, target shooting, and others, totaling 64,765 shooters.

In total, the annual **expenditure by hunters**, including those who hunt without shooting and excluding the cost of firearms and ammunition, amounts to 188,963,348 euros. For other shooting disciplines, the total **expenditure by shooters** (excluding the cost of firearms and ammunition) is 558,929,774 euros. By adding the total expenditure by hunters (188,963,348 euros) to that of shooters (558,929,774 euros), we obtain a total of 747,893,122 euros, which represents the estimated value of the sectors driven by the final demand from hunters and shooters.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 1,035

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 5,623.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the Netherlands economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 1,428,270,890 euros and 12,681 employees.

Table 1.NL - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	85,478,247	0.01%
Induced economic impact	71,374,336	0.01%
TOTAL ECONOMIC IMPACT	156,852,583	0.02%
Value of sectors connected to final demand (hunting and shooting)	747,893,122	0.08%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	904,745,705	0.10%
Induced effect of connected sectors	523,525,185	0.06%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	1,428,270,890	0.16%

Table 2.NL - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in Netherlands	% of total employment in manufacturing and services
Sector employees + Suppliers	624	0.01%	0.03%
Induced employment impact	638	0.01%	0.02%
TOTAL EMPLOYMENT IMPACT	1,362	0.02%	0.05%
Employees of the sectors connected to final demand (hunting and shooting)	6,658	0.08%	0.25%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	8,020	0.10%	0.30%
Induced effect of connected sectors	4,661	0.06%	0.18%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	12,681	0.15%	0.48%

UK

OVERVIEW OF THE UK PRODUCTION OF FIREARMS AND AMMUNITION, AND COMPANIES IN THE SECTOR

UK's firearms industry comprises thirteen companies and employs 706 workers. The total turnover amounts to 109,504,225 euros.

Exports in 2021 amount to 38,874,000 euros. UK primarily exports *sporting, hunting, and target-shooting shotguns, with at least one smooth barrel* (Category: 930320), with USA being the most significant market. Imports, on the other hand, reach 28,643,000 euros. The country mainly imports *sporting, hunting, and target-shooting shotguns with at least one smooth barrel* (Category: 930320), with Italy as a key supplier. As a result, UK records a trade surplus of 10,231,000 euros in the firearms sector. The estimated wholesale value of the domestic market amounts to 99,273,225 euros.

UK's ammunition industry consists of six companies and employs 115 workers. The sector produces 366,000,000 shotgun ammunition annually, totaling 57,644,160 euros.

In 2021, UK exports 44,671,000 euros, primarily consisting of *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), with USA as the key destination. The country imports 8,434 tons of ammunition valued at 56,671,000 euros, primarily *cartridges for smooth-barrelled shotguns, revolvers, and pistols* (Category: 930630), mainly from Area NES. This results in a trade deficit of 12,000,000 euros. The estimated wholesale value of the domestic market is 69,644,160 euros.

THE UK FIREARMS INDUSTRY: COMPONENTS PRODUCTION AND AUXILIARY SECTORS

UK's firearms components industry includes 10 companies and employs 106 workers. The sector contributes significantly to firearm manufacturing through specialized parts such as stocks, barrels, and chokes. In 2021, UK exports 74,920,000 euros, mainly *telescopic sights* (Category: 901310), with Area NES as the key market. The country imports 42,680,000 euros, primarily *telescopic sights* (Category: 901310), mainly from Area NES. This resulted in a trade surplus of 32,240,000 euros. Moreover, the generic suppliers were analyzed, resulting in 81 employees. Overall, considering both component manufacturers and generic suppliers, 37 companies and 187 employees have been identified.

Regarding the auxiliary firearms sector, the industry employs 2,740 workers. The estimated total turnover of auxiliary services is 360,623,019 euros. To measure, the overall value of the sector, the margin of importers, gun shops, and maintenance companies (i.e., 64,168,611 euros) is also considered. Additionally, machinery exports have been considered, amounting to 0 euros for the specialized sector and 7,049,505 euros for the generic sector.

THE VALUE OF SECTORS CONNECTED TO SPORTS SHOOTING AND HUNTING ACTIVITIES

The firearms sector in UK is closely linked to **hunting and sport shooting**, generating significant economic and employment impacts. UK has a total of 553,000 registered hunters and shooters.

In total, the annual **expenditure** amounts to 4,165,000,000 euros.

EMPLOYMENT IN SECTORS CONNECTED TO THE FINAL DEMAND OF HUNTERS AND SHOOTERS: PRODUCTS AND SERVICES

For evaluating the occupational weight of **sectors engaged in providing products related to the final demand** linked to the use of firearms for sports and hunting activities, the study considered the productions of clothing and footwear, all types of accessories for firearms, hunting and shooting, those for dogs and games, equipment, and materials used in shooting ranges and shooting fields. As regards the employees, the research identified a total of 4,583.

Regarding **services**, employment within organizations providing services used for hunting and sport shooting practices was calculated concerning the following sectors: associations and federations, shooting ranges and hunting areas, communication channels, and other services (i.e., travel agencies and tour operators, food and

beverage, distribution of related products, taxidermists, veterinarians, insurance). Overall, the number of employees providing these services amounts to 22,064.

THE OVERALL VALUE OF THE SECTOR AND RELATED SECTORS

Overall, the conducted analysis has allowed us to identify the economic and employment impact of firearms and ammunition sector for civilian use, considering not only the companies producing firearms and ammunition but also those belonging to the upstream (supply chain) and downstream (distribution structure) sectors, as well as companies in other sectors providing products and services for users of firearms for sporting and hunting purposes, such as sport shooters and hunters.

The last part of the research aimed to estimate the **effects of induced economic and employment** related to the demand for different products and services, which are also influenced by employees within the sectors considered. This demand generates corresponding production in other economy's sectors based on shares calculated using sectoral interdependence tables (*input-output matrices*). This approach has been adopted since the value generated by one sector spreads to other sectors, creating a multiplier effect on both the value and the employment across all sectors that contribute to forming the UK economy.

After estimating the different multipliers, the induced economic and employment effects have been calculated. Tables 1 and 2 show **the total value of the civilian firearms and ammunition sector**, amounting to 7,740,923,289 euros and 52,346 employees.

Table 1.UK - Total economic value of the firearms and ammunition sector and sectors connected to final demand

	Value	Impact on GDP
Value of production to the final user + exports	359,903,700	0.02%
Induced economic impact	300,519,589	0.01%
TOTAL ECONOMIC IMPACT	660,423,289	0.03%
Value of sectors connected to final demand (hunting and shooting)	4,165,000,000	0.18%
TOTAL ECONOMIC IMPACT + SECTORS CONNECTED TO FINAL DEMAND	4,825,423,289	0.21%
Induced effect of connected sectors	2,915,500,000	0.13%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	7,740,923,289	0.34%

Table 2.UK - Total employment of the firearms and ammunition sector and sectors connected to final demand

	Employees	% of total employment in UK	% of total employment in manufacturing and services
Sector employees + Suppliers	3,748	0.01%	0.04%
Induced employment impact	3,298	0.01%	0.04%
TOTAL EMPLOYMENT IMPACT	7,046	0.02%	0.08%
Employees of the sectors connected to final demand (hunting and shooting)	26,647	0.09%	0.30%
TOTAL EMPLOYMENT IMPACT + SECTORS CONNECTED TO FINAL DEMAND	33,693	0.11%	0.38%
Induced effect of connected sectors	18,653	0.06%	0.21%
TOTAL (CONSIDERING THE INDUCED EFFECTS)	52,346	0.17%	0.59%

