

Applications to the programme

(Source: CORDA data – cut-off date: 1 January 2023)

Over **1 million applications** were submitted through over **285 000 eligible proposals**. Organisations located in EU28 Member States account for 88% of all applications, followed by associated countries (8.3%) and non-associated third countries (3.7%).

More detail is available on the tables that follow, on applications and success rates by country by organisation type and by pillar.

Table 18: Applications and success rates by type of organisation

Type of Organisation	Applications in eligible proposals	% of all applications	Applications in retained Proposals	Success rate of application	EU contribution requested in retained proposals (in million EUR)	%
Higher Education Institutions (HES)	357 364	35.6%	50 330	14.1%	24 950	38.6%
Research Organisations (REC)	171 199	17.0%	31 987	18.7%	16 405	25.4%
Private for-profit entities (PRC)	404 260	40.2%	55 684	13.8%	19 118	29.5%
Public bodies (PUB)	33 232	3.3%	8 234	24.8%	2 222	3.4%
Other (OTH)	38 544	3.8%	7 392	19.2%	2 007	3.1%
Total	1 004 599	100%	153 627	15.3%	64 702	100%

Table 19: Applications by country and type of participating organisation in Horizon 2020 (Source: CORDA data – cut-off date: 1 January 2023)

EU-28 Member State	Country code	Country group	Horizon 2020 applications in eligible proposals over 2014-2020	Excellent Science	Industrial Leadership	Societal challenges	Spreading excellence and widening participation	Other	Excellent Science	Industrial Leadership	Societal challenges	Spreading excellence and widening participation	Other	Excellent Science	Industrial Leadership	Societal challenges	Spreading excellence and widening participation	Other	
				Number of applications					% of applications of the country by pillar					% of all applications per pillar					
Austria	AT	EU-15	25,663	8,577	5,770	9,795	300	1,221	33%	22%	38%	1%	5%	2%	3%	3%	3%	3%	3%
Belgium	BE	EU-15	40,307	13,760	7,459	17,001	306	1,781	34%	19%	42%	1%	4%	4%	3%	5%	3%	3%	4%
Bulgaria	BG	EU-13	6,695	963	1,644	3,452	166	470	14%	25%	52%	2%	7%	0%	1%	1%	2%	2%	1%
Cyprus	CY	EU-13	6,654	1,474	1,432	3,020	322	406	22%	22%	45%	5%	6%	0%	1%	1%	3%	3%	1%
Czechia	CZ	EU-13	10,441	3,515	2,399	3,588	302	637	34%	23%	34%	3%	6%	1%	1%	1%	3%	3%	2%
Germany	DE	EU-15	108,127	44,214	24,892	33,683	1,214	4,124	41%	23%	31%	1%	4%	12%	11%	9%	12%	10%	10%
Denmark	DK	EU-15	23,934	10,912	4,064	7,848	198	912	46%	17%	33%	1%	4%	3%	2%	2%	2%	2%	2%
Estonia	EE	EU-13	5,754	1,192	1,418	2,636	198	310	21%	25%	46%	3%	5%	0%	1%	1%	2%	2%	1%
Greece	EL	EU-15	34,570	7,037	9,392	16,259	207	1,675	20%	27%	47%	1%	5%	2%	4%	5%	2%	2%	4%
Spain	ES	EU-15	110,661	34,922	28,703	41,953	496	4,587	32%	26%	38%	0%	4%	9%	13%	12%	5%	11%	11%
Finland	FI	EU-15	22,055	7,039	6,118	7,901	200	797	32%	28%	36%	1%	4%	2%	3%	2%	2%	2%	2%
France	FR	EU-15	77,950	34,598	16,716	23,500	527	2,609	44%	21%	30%	1%	3%	9%	8%	7%	5%	6%	6%
Croatia	HR	EU-13	4,848	1,084	781	2,523	196	264	22%	16%	52%	4%	5%	0%	0%	1%	2%	2%	1%
Hungary	HU	EU-13	10,580	2,620	2,571	4,643	154	592	25%	24%	44%	1%	6%	1%	1%	1%	1%	1%	1%
Ireland	IE	EU-15	17,906	6,396	4,364	6,125	134	887	36%	24%	34%	1%	5%	2%	2%	2%	1%	2%	2%
Italy	IT	EU-15	109,623	34,594	27,267	42,711	783	4,268	32%	25%	39%	1%	4%	9%	12%	12%	8%	11%	11%
Lithuania	LT	EU-13	4,161	923	899	1,819	149	371	22%	22%	44%	4%	9%	0%	0%	1%	1%	1%	1%
Luxembourg	LU	EU-15	3,271	797	1,011	1,287	47	129	24%	31%	39%	1%	4%	0%	0%	0%	0%	0%	0%
Latvia	LV	EU-13	3,480	707	874	1,573	129	197	20%	25%	45%	4%	6%	0%	0%	0%	1%	0%	0%
Malta	MT	EU-13	1,626	332	275	838	65	116	20%	17%	52%	4%	7%	0%	0%	0%	1%	0%	0%
Netherlands	NL	EU-15	55,954	24,054	9,719	19,595	457	2,129	43%	17%	35%	1%	4%	6%	4%	5%	4%	5%	5%
Poland	PL	EU-13	18,251	5,203	4,259	7,531	412	846	29%	23%	41%	2%	5%	1%	2%	2%	4%	2%	2%
Portugal	PT	EU-15	25,382	8,279	5,691	9,804	561	1,047	33%	22%	39%	2%	4%	2%	3%	3%	5%	3%	3%
Romania	RO	EU-13	10,640	1,852	2,422	5,389	311	666	17%	23%	51%	3%	6%	0%	1%	2%	3%	2%	2%
Sweden	SE	EU-15	29,542	12,169	6,291	9,737	325	1,020	41%	21%	33%	1%	3%	3%	3%	3%	3%	3%	3%
Slovenia	SI	EU-13	10,458	2,513	2,596	4,485	228	636	24%	25%	43%	2%	6%	1%	1%	1%	2%	2%	2%
Slovakia	SK	EU-13	4,459	930	1,094	1,966	175	294	21%	25%	44%	4%	7%	0%	0%	1%	2%	2%	1%
United Kingdom	UK	EU-15	100,607	53,560	16,175	27,198	684	2,990	53%	16%	27%	1%	3%	14%	7%	8%	7%	7%	7%
Total EU-28				883,599	324,216	196,296	317,860	9,246	35,981	37%	22%	36%	1%	4%	86%	90%	88%	89%	89%
<i>Total EU-13</i>				<i>98,047</i>	<i>23,308</i>	<i>22,664</i>	<i>43,463</i>	<i>2,807</i>	<i>5,805</i>	<i>24%</i>	<i>23%</i>	<i>44%</i>	<i>3%</i>	<i>6%</i>	<i>6%</i>	<i>10%</i>	<i>12%</i>	<i>27%</i>	<i>14%</i>
<i>Total EU-15</i>				<i>785,552</i>	<i>300,908</i>	<i>173,632</i>	<i>274,397</i>	<i>6,439</i>	<i>30,176</i>	<i>38%</i>	<i>22%</i>	<i>35%</i>	<i>1%</i>	<i>4%</i>	<i>80%</i>	<i>79%</i>	<i>76%</i>	<i>62%</i>	<i>75%</i>
Associated countries				83,377	30,948	19,917	27,892	1,048	3,572	37%	24%	33%	1%	4%	8%	9%	8%	10%	9%
Thrid countries				37,623	20,774	2,592	13,474	48	735	55%	7%	36%	0%	2%	6%	1%	4%	0%	2%
Total Horizon 2020				1,004,599	375,938	218,805	359,226	10,342	40,288	37%	22%	36%	1%	4%	100%	100%	100%	100%	100%

Table 20: Applications by country and type of participating organisation in Horizon 2020 ((Source: CORDA data – cut-off date: 1 January 2023))

EU-28 Member State	Country code	Country group	Horizon 2020 applications in eligible proposals over 2014-2020	Number of applications					% of all applications per country					% of all applications per organisation type				
				HES	PRC	PUB	REC	OTH	HES	PRC	PUB	REC	OTH	HES	PRC	PUB	REC	OTH
Austria	AT	EU-15	25,663	8,686	10,000	513	5,348	1,116	34%	39%	2%	21%	4%	2%	2%	2%	3%	3%
Belgium	BE	EU-15	40,307	12,417	13,800	915	6,554	6,621	31%	34%	2%	16%	16%	3%	3%	3%	4%	17%
Bulgaria	BG	EU-13	6,695	1,077	3,239	416	1,278	685	16%	48%	6%	19%	10%	0%	1%	1%	1%	2%
Cyprus	CY	EU-13	6,654	2,153	3,474	364	317	346	32%	52%	5%	5%	5%	1%	1%	1%	0%	1%
Czechia	CZ	EU-13	10,441	4,101	3,940	290	1,656	454	39%	38%	3%	16%	4%	1%	1%	1%	1%	1%
Germany	DE	EU-15	108,127	36,497	42,313	1,864	24,553	2,900	34%	39%	2%	23%	3%	10%	10%	6%	14%	8%
Denmark	DK	EU-15	23,934	11,932	8,777	1,131	1,477	617	50%	37%	5%	6%	3%	3%	2%	3%	1%	2%
Estonia	EE	EU-13	5,754	2,032	2,665	299	332	426	35%	46%	5%	6%	7%	1%	1%	1%	0%	1%
Greece	EL	EU-15	34,570	9,473	13,676	1,262	9,012	1,147	27%	40%	4%	26%	3%	3%	3%	4%	5%	3%
Spain	ES	EU-15	110,661	26,164	47,704	4,932	27,929	3,932	24%	43%	4%	25%	4%	7%	12%	15%	16%	10%
Finland	FI	EU-15	22,055	8,940	8,442	600	3,534	539	41%	38%	3%	16%	2%	3%	2%	2%	2%	1%
France	FR	EU-15	77,950	16,468	32,738	1,816	23,822	3,106	21%	42%	2%	31%	4%	5%	8%	5%	14%	8%
Croatia	HR	EU-13	4,848	1,571	1,811	432	825	209	32%	37%	9%	17%	4%	0%	0%	1%	0%	1%
Hungary	HU	EU-13	10,580	2,525	5,679	497	1,447	432	24%	54%	5%	14%	4%	1%	1%	1%	1%	1%
Ireland	IE	EU-15	17,906	8,362	7,900	525	591	528	47%	44%	3%	3%	3%	2%	2%	2%	0%	1%
Italy	IT	EU-15	109,623	34,126	50,045	3,547	18,381	3,524	31%	46%	3%	17%	3%	10%	12%	11%	11%	9%
Lithuania	LT	EU-13	4,161	1,349	1,671	382	518	241	32%	40%	9%	12%	6%	0%	0%	1%	0%	1%
Luxembourg	LU	EU-15	3,271	641	1,838	82	535	175	20%	56%	3%	16%	5%	0%	0%	0%	0%	0%
Latvia	LV	EU-13	3,480	984	1,476	295	502	223	28%	42%	8%	14%	6%	0%	0%	1%	0%	1%
Malta	MT	EU-13	1,626	589	764	149	72	52	36%	47%	9%	4%	3%	0%	0%	0%	0%	0%
Netherlands	NL	EU-15	55,954	23,274	22,296	1,350	6,891	2,143	42%	40%	2%	12%	4%	7%	6%	4%	4%	6%
Poland	PL	EU-13	18,251	6,067	7,472	774	3,252	686	33%	41%	4%	18%	4%	2%	2%	2%	2%	2%
Portugal	PT	EU-15	25,382	6,631	9,898	1,248	6,477	1,128	26%	39%	5%	26%	4%	2%	2%	4%	4%	3%
Romania	RO	EU-13	10,640	2,713	4,626	935	1,627	739	25%	43%	9%	15%	7%	1%	1%	3%	1%	2%
Sweden	SE	EU-15	29,542	14,606	11,177	1,181	2,040	538	49%	38%	4%	7%	2%	4%	3%	4%	1%	1%
Slovenia	SI	EU-13	10,458	2,308	4,674	546	2,452	478	22%	45%	5%	23%	5%	1%	1%	2%	1%	1%
Slovakia	SK	EU-13	4,459	1,338	2,135	240	489	257	30%	48%	5%	11%	6%	0%	1%	1%	0%	1%
United Kingdom	UK	EU-15	100,607	58,910	32,045	2,246	5,196	2,210	59%	32%	2%	5%	2%	16%	8%	7%	3%	6%
Total EU-28			883,599	305,934	356,275	28,831	157,107	35,452	34.6%	40.3%	3.3%	17.8%	4.0%	86%	88%	87%	92%	92%
Total EU-13			98,047	28,807	43,626	5,619	14,767	5,228	29.4%	44.5%	5.7%	15.1%	5.3%	8%	11%	17%	9%	14%
Total EU-15			785,552	277,127	312,649	23,212	142,340	30,224	35.3%	39.8%	3.0%	18.1%	3.8%	78%	77%	70%	83%	78%
Associated countries			83,377	32,017	36,462	3,172	9,678	2,048	38.4%	43.7%	3.8%	11.6%	2.5%	9%	9%	10%	6%	5%
Thrid countries			37,623	19,413	11,514	1,229	4,414	1,044	51.6%	30.6%	3.3%	11.7%	2.8%	5%	3%	4%	3%	3%
Total Horizon 2020			1,004,599	357,364	404,251	33,232	171,199	38,544	35.6%	40.2%	3.3%	17.0%	3.8%	100%	100%	100%	100%	100%

Legend:
HES - Higher Education Institutions
REC - Research Organisations
PRC - Private-for-profit entities
PUB - Public bodies
OTH - Other

Table 21: Applications by country and success rates of application in Horizon 2020 (Source: CORDA data – cut-off date: 1 January 2023)

EU-28 Member State	Country code	Country group	Horizon 2020 applications in eligible proposals over 2014-2020	% of total	Horizon 2020 applications in eligible proposals per year	Horizon 2020 applications in high quality proposals	% of high quality applications	Retained Applications	Success rate of application in Horizon 2020	'000 of scientists and engineers per country*	Share of scientists and engineers in EU-28	Applications per '000 of scientists and engineers in the population	European Innovation Scoreboard Country Group (2014)	European Innovation Scoreboard Country Group (2020)
Austria	AT	EU-15	25,663	2.6%	3,666	15,440	60.2%	4,449	17.3%	329.22	1.9%	78	FOLLOWER	STRONG
Belgium	BE	EU-15	40,307	4.0%	5,758	26,097	64.7%	7,623	18.9%	466.96	2.7%	86	FOLLOWER	STRONG
Bulgaria	BG	EU-13	6,695	0.7%	956	2,673	39.9%	848	12.7%	191.5	1.1%	35	MODEST	MODEST
Cyprus	CY	EU-13	6,654	0.7%	951	3,608	54.2%	881	13.2%	26.18	0.2%	254	FOLLOWER	MODERATE
Czechia	CZ	EU-13	10,441	1.0%	1,492	5,704	54.6%	1,620	15.5%	331.22	1.9%	32	MODERATE	MODERATE
Germany	DE	EU-15	108,127	10.8%	15,447	66,661	61.7%	18,216	16.8%	3090.6	18.0%	35	LEADER	STRONG
Denmark	DK	EU-15	23,934	2.4%	3,419	15,069	63.0%	3,615	15.1%	282.94	1.6%	85	LEADER	LEADER
Estonia	EE	EU-13	5,754	0.6%	822	2,887	50.2%	791	13.7%	44.44	0.3%	129	FOLLOWER	STRONG
Greece	EL	EU-15	34,570	3.4%	4,939	19,267	55.7%	4,817	13.9%	250.76	1.5%	138	MODERATE	MODERATE
Spain	ES	EU-15	110,661	11.0%	15,809	61,970	56.0%	15,829	14.3%	1380.32	8.0%	80	MODERATE	MODERATE
Finland	FI	EU-15	22,055	2.2%	3,151	11,922	54.1%	3,122	14.2%	277.42	1.6%	80	LEADER	LEADER
France	FR	EU-15	77,950	7.8%	11,136	48,926	62.8%	13,622	17.5%	1739.62	10.1%	45	FOLLOWER	STRONG
Croatia	HR	EU-13	4,848	0.5%	693	2,282	47.1%	657	13.6%	96.66	0.6%	50	MODERATE	MODERATE
Hungary	HU	EU-13	10,580	1.1%	1,511	5,132	48.5%	1,353	12.8%	260.3	1.5%	41	MODERATE	MODERATE
Ireland	IE	EU-15	17,906	1.8%	2,558	10,546	58.9%	2,657	14.8%	231.44	1.3%	77	FOLLOWER	STRONG
Italy	IT	EU-15	109,623	10.9%	15,660	56,469	51.5%	14,245	13.0%	1043.38	6.1%	105	MODERATE	MODERATE
Lithuania	LT	EU-13	4,161	0.4%	594	1,976	47.5%	541	13.0%	97.28	0.6%	43	MODERATE	MODERATE
Luxembourg	LU	EU-15	3,271	0.3%	467	1,955	59.8%	541	16.5%	26.94	0.2%	121	FOLLOWER	LEADER
Latvia	LV	EU-13	3,480	0.3%	497	1,567	45.0%	477	13.7%	47.54	0.3%	73	MODEST	MODERATE
Malta	MT	EU-13	1,626	0.2%	232	812	49.9%	227	14.0%	16.02	0.1%	101	MODERATE	MODERATE
Netherlands	NL	EU-15	55,954	5.6%	7,993	35,717	63.8%	9,666	17.3%	834.52	4.9%	67	FOLLOWER	LEADER
Poland	PL	EU-13	18,251	1.8%	2,607	8,959	49.1%	2,483	13.6%	1169.98	6.8%	16	MODERATE	MODERATE
Portugal	PT	EU-15	25,382	2.5%	3,626	13,924	54.9%	3,296	13.0%	371.82	2.2%	68	MODERATE	STRONG
Romania	RO	EU-13	10,640	1.1%	1,520	4,868	45.8%	1,389	13.1%	534.36	3.1%	20	MODEST	MODEST
Sweden	SE	EU-15	29,542	2.9%	4,220	17,619	59.6%	4,538	15.4%	581.6	3.4%	51	LEADER	LEADER
Slovenia	SI	EU-13	10,458	1.0%	1,494	4,996	47.8%	1,248	11.9%	78.36	0.5%	133	FOLLOWER	MODERATE
Slovakia	SK	EU-13	4,459	0.4%	637	1,951	43.8%	593	13.3%	104.44	0.6%	43	MODERATE	MODERATE
United Kingdom	UK	EU-15	100,607	10.0%	14,372	61,534	61.2%	15,382	15.3%	3280.05	19.1%	31	FOLLOWER	STRONG
Total EU-28			883,599	88.0%	126,228	510,531	57.8%	134,726	15.2%	17185.87	100.0%	51	FOLLOWER	STRONG
Total EU-13			98,047	9.8%	14,007	47,415	48.4%	13,108	13.4%	2998.28	17.4%	33		
Total EU-15			785,552	78.2%	112,222	463,116	59.0%	121,618	15.5%	14187.59	82.6%	55		
Associated countries			83,377	8.3%	11,911	45,876	55.0%	12,139	14.6%					
Thrid countries			37,623	3.7%	5,375	25,376	67.4%	6,762	18.0%					
Total Horizon 2020			1,004,599	100.0%	143,514	581,783	57.9%	153,627	15.3%					

* Source = Eurostat

Funding allocation and participants in signed grants (Source: *CORDA data – cut-off date: 1 January 2023*)

EUR 68.3 billion were allocated through **35 426 grants**. In total, **41 575 different organisations** benefited from Horizon 2020 funding, some participating in several Horizon 2020 projects.

Figure 57: Funding per type of organisation

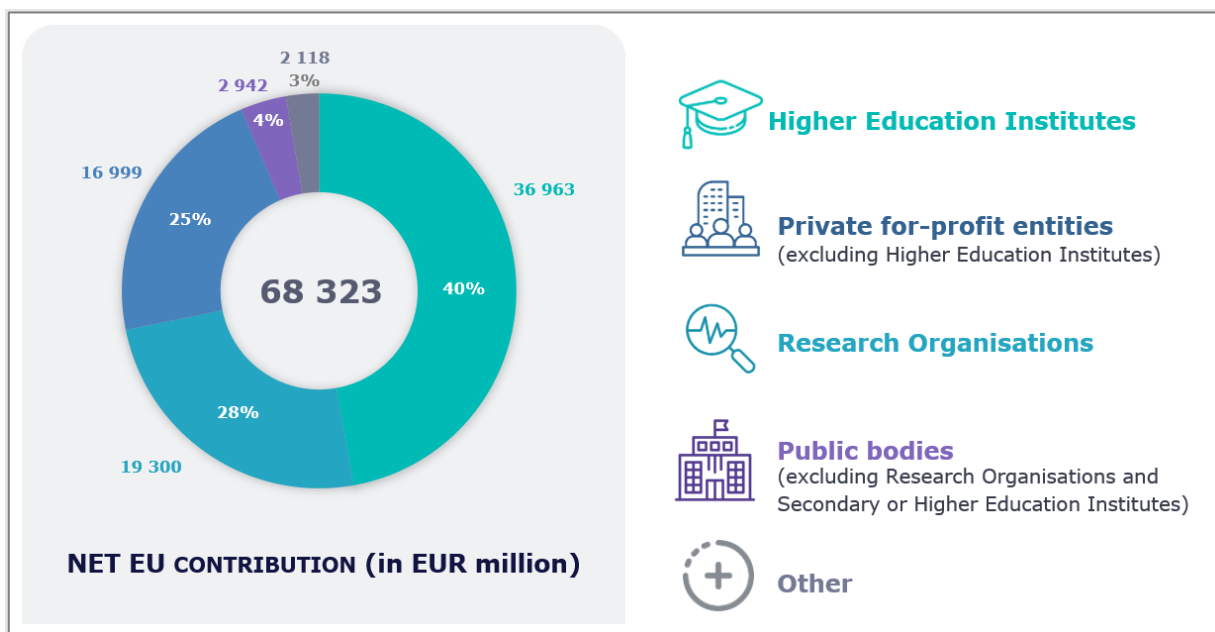


Figure 58: Funding by Member State (in EUR million)

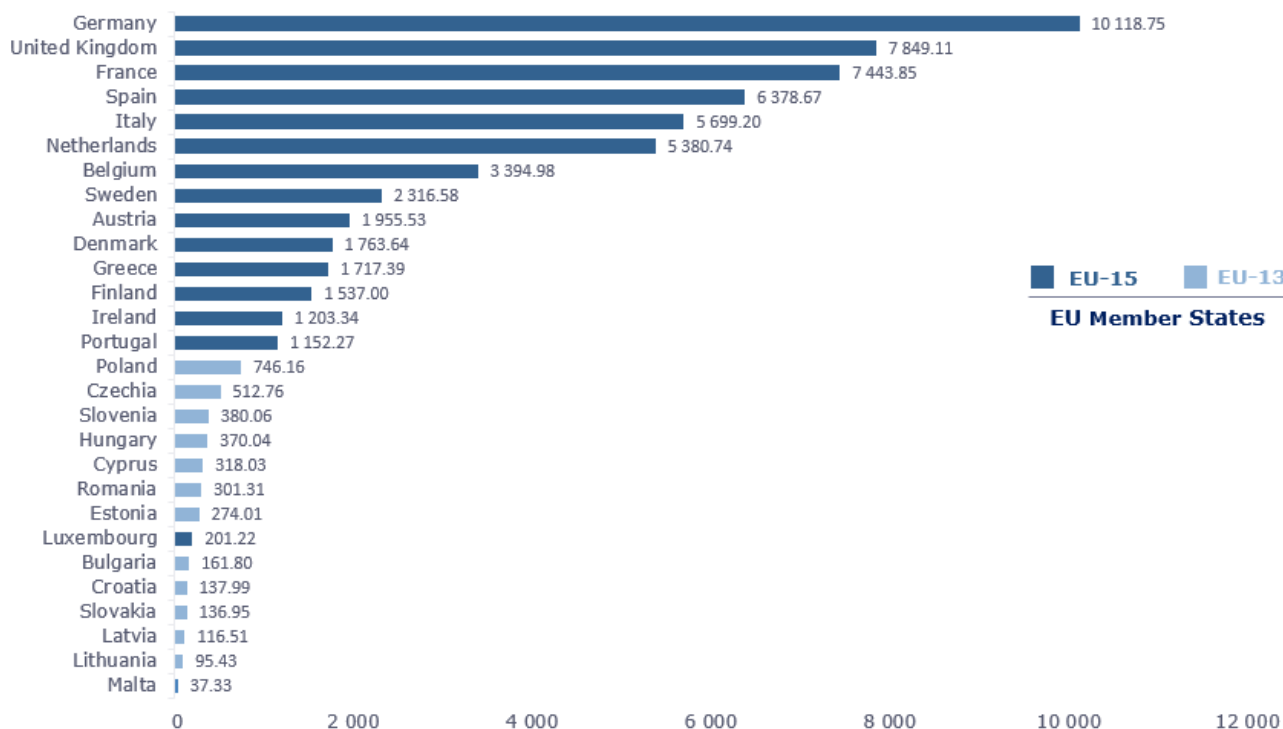


Figure 59: Funds received by Member States (by EUR million GERD)

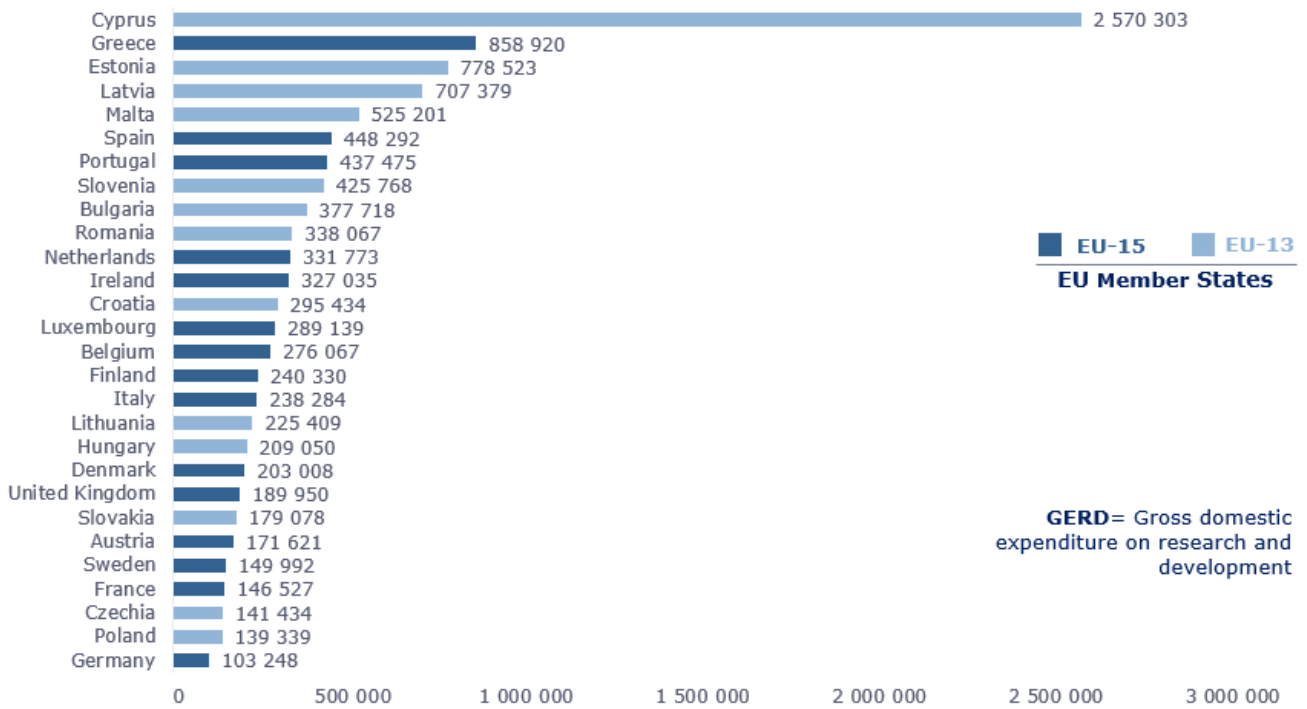


Figure 60: Funding allocation per pillar

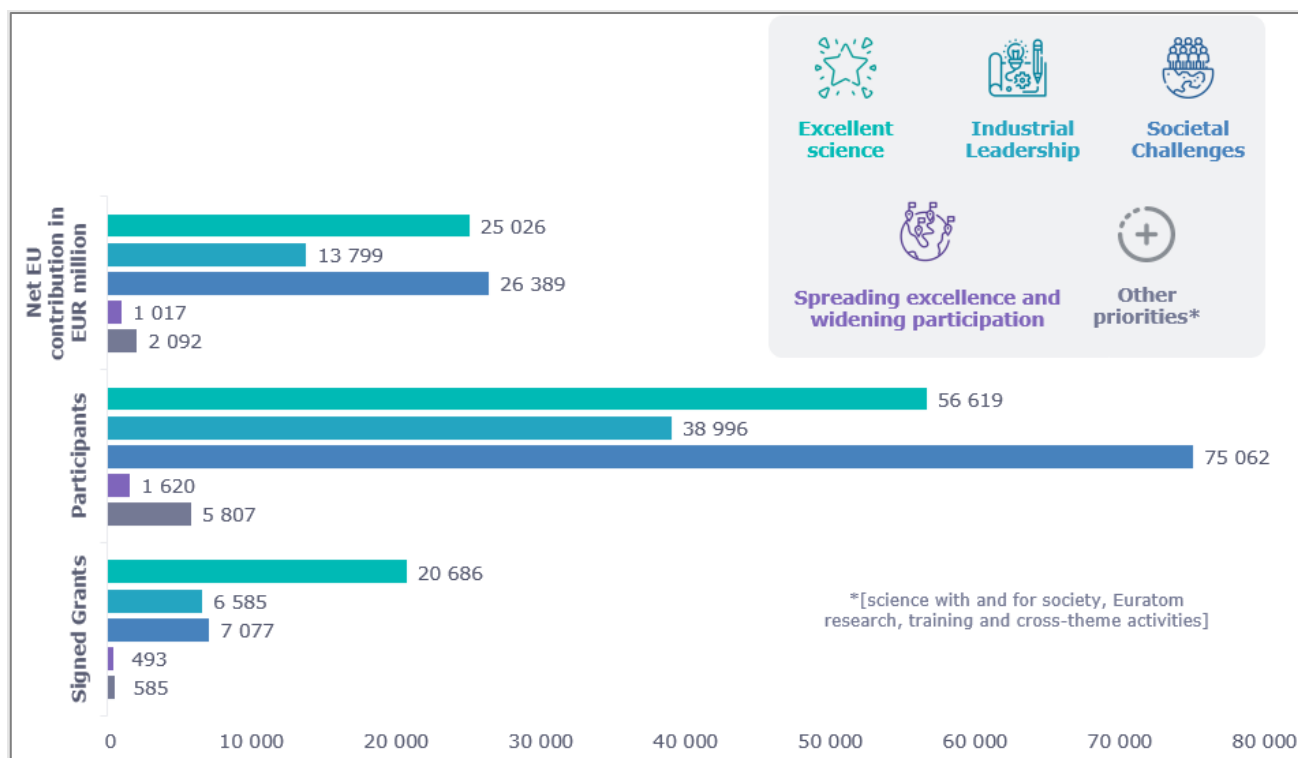
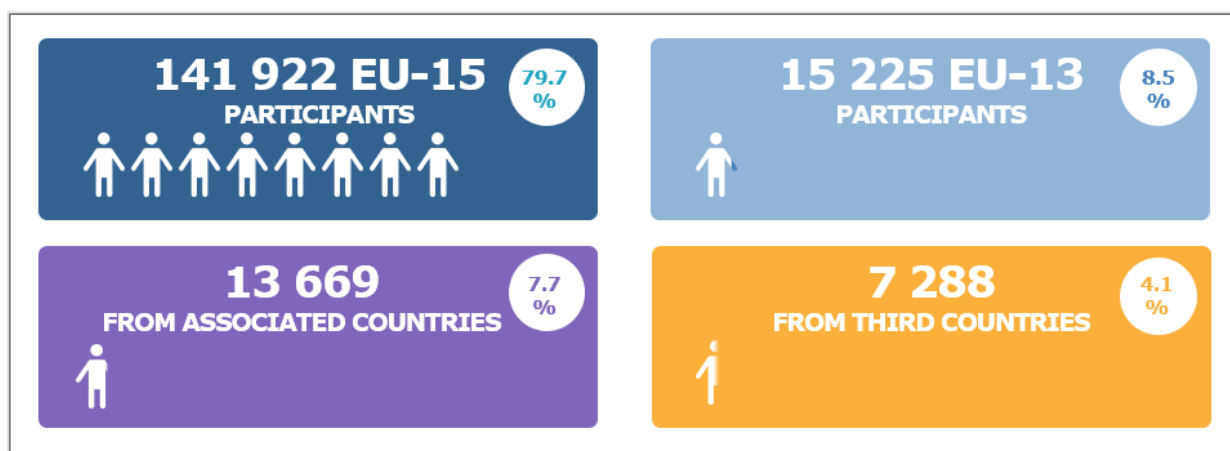


Figure 61: Participation by country group

178 104 participations were registered in Horizon 2020, a same organisation participating sometimes in several projects.



(Source: CORDA data – cut-off date: 1 January 2023)

More detail is available in the tables that follow on Horizon 2020 investment (a) by pillar, (b) by organisation type, and (c) by country.

Table 22: Horizon 2020 investments by country and by pillar of Horizon 2020 (Source: CORDA data – cut-off date: 1 January 2023)

EU-28 Member State	Country code	Country group	Horizon 2020 investments in signed grants (EUR million)	Excellent Science	Industrial Leadership	Societal challenges	Spreading excellence and widening participation	Other	Excellent Science	Industrial Leadership	Societal challenges	Spreading excellence and widening participation	Other	Excellent Science	Industrial Leadership	Societal challenges	Spreading excellence and widening participation	Other
				Investment by pillar					% of H2020 investments by country and by pillar					% of all investments in the same pillar				
Austria	AT	EU-15	1,956	706	448	742	12	48	36%	23%	38%	1%	2%	3%	3%	3%	1%	39%
Belgium	BE	EU-15	3,395	913	686	1,409	267	120	27%	20%	42%	8%	4%	4%	5%	5%	26%	97%
Bulgaria	BG	EU-13	162	22	25	76	30	9	14%	15%	47%	19%	6%	0%	0%	0%	3%	8%
Cyprus	CY	EU-13	318	60	55	107	88	8	19%	17%	34%	28%	3%	0%	0%	0%	9%	7%
Czechia	CZ	EU-13	513	162	91	177	50	32	32%	18%	35%	10%	6%	1%	1%	1%	5%	26%
Germany	DE	EU-15	10,119	3,942	2,178	3,558	44	396	39%	22%	35%	0%	4%	16%	16%	13%	4%	322%
Denmark	DK	EU-15	1,764	735	276	701	5	48	42%	16%	40%	0%	3%	3%	2%	3%	0%	39%
Estonia	EE	EU-13	274	38	49	128	53	6	14%	18%	47%	19%	2%	0%	0%	0%	5%	5%
Greece	EL	EU-13	1,717	289	560	829	6	34	17%	33%	48%	0%	2%	1%	4%	3%	1%	28%
Spain	ES	EU-15	6,379	1,767	1,625	2,797	9	181	28%	25%	44%	0%	3%	7%	12%	11%	1%	147%
Finland	FI	EU-15	1,537	457	413	601	15	52	30%	27%	39%	1%	3%	2%	3%	2%	1%	42%
France	FR	EU-15	7,444	2,763	1,569	2,856	16	239	37%	21%	38%	0%	3%	11%	11%	11%	2%	195%
Croatia	HR	EU-13	138	29	17	75	10	6	21%	12%	55%	7%	5%	0%	0%	0%	1%	5%
Hungary	HU	EU-13	370	116	70	139	25	20	31%	19%	38%	7%	5%	0%	1%	1%	2%	16%
Ireland	IE	EU-15	1,203	416	301	431	6	50	35%	25%	36%	0%	4%	2%	2%	2%	1%	40%
Italy	IT	EU-15	5,699	1,713	1,295	2,459	15	218	30%	23%	43%	0%	4%	7%	9%	9%	1%	177%
Lithuania	LT	EU-13	95	14	26	40	5	10	15%	27%	42%	6%	10%	0%	0%	0%	1%	8%
Luxembourg	LU	EU-15	201	46	64	84	5	2	23%	32%	42%	2%	1%	0%	0%	0%	0%	2%
Latvia	LV	EU-13	117	12	21	51	28	4	10%	18%	44%	24%	4%	0%	0%	0%	3%	3%
Malta	MT	EU-13	37	7	5	20	4	1	19%	14%	52%	11%	4%	0%	0%	0%	0%	1%
Netherlands	NL	EU-15	5,381	2,158	892	2,218	12	101	40%	17%	41%	0%	2%	9%	6%	8%	1%	82%
Poland	PL	EU-13	746	197	217	244	60	28	26%	29%	33%	8%	4%	1%	2%	1%	6%	23%
Portugal	PT	EU-15	1,152	316	245	454	102	34	27%	21%	39%	9%	3%	1%	2%	2%	10%	28%
Romania	RO	EU-13	301	46	49	183	11	12	15%	16%	61%	3%	4%	0%	0%	1%	1%	10%
Sweden	SE	EU-15	2,317	887	412	945	13	60	38%	18%	41%	1%	3%	4%	3%	4%	1%	49%
Slovenia	SI	EU-13	380	69	84	181	26	19	18%	22%	48%	7%	5%	0%	1%	1%	3%	16%
Slovakia	SK	EU-13	137	26	20	64	18	9	19%	15%	47%	13%	6%	0%	0%	0%	2%	7%
United Kingdom	UK	EU-15	7,849	4,106	965	2,542	35	201	52%	12%	32%	0%	3%	16%	7%	10%	3%	163%
Total EU-28			61,701	22,013	12,657	24,114	969	1,948	36%	21%	39%	2%	3%	88%	92%	91%	95%	1584%
Total EU-13			3,589	800	729	1,486	409	165	22%	20%	41%	11%	5%	3%	5%	6%	40%	134%
Total EU-15			58,112	21,213	11,928	22,627	560	1,783	37%	21%	39%	1%	3%	85%	86%	86%	55%	1450%
Associated countries			6,094	2908	1106	1893	48	139	48%	18%	31%	1%	2%	12%	8%	7%	5%	113%
Thrid countries			528	104	36	382.5	0	5.5	20%	7%	72%	0%	1%	0%	0%	1%	0%	4%
Total Horizon 2020			68,323	25,025	13,799	26,389	1,017	123	37%	20%	39%	1%	0%	100%	100%	100%	100%	100%

Table 23: Horizon 2020 investments by type of organisation (Source: CORDA data – cut-off date: 1 January 2023)

EU-28 Member State	Country code	Country group	Horizon 2020 investments in signed grants (EUR million)	HES	PRC	PUB	REC	OTH	HES	PRC	PUB	REC	OTH	HES	PRC	PUB	REC	OTH
				Investment by type of organisation					% of investments in a country by org. type					% of investments to an org. type, by country				
Austria	AT	EU-15	1,956	776	623	24	428	104	40%	32%	1%	22%	5%	3%	3%	1%	3%	4%
Belgium	BE	EU-15	3,395	1,097	736	69	790	704	32%	22%	2%	23%	21%	4%	4%	3%	5%	24%
Bulgaria	BG	EU-13	162	41	52	11	47	10	25%	32%	7%	29%	6%	0%	0%	1%	0%	0%
Cyprus	CY	EU-13	318	133	129	10	35	12	42%	41%	3%	11%	4%	0%	1%	0%	0%	0%
Czechia	CZ	EU-13	513	227	149	16	99	22	44%	29%	3%	19%	4%	1%	1%	1%	1%	1%
Germany	DE	EU-15	10,119	3,622	2,737	138	3,337	286	36%	27%	1%	33%	3%	13%	14%	6%	20%	10%
Denmark	DK	EU-15	1,764	1,048	444	103	106	62	59%	25%	6%	6%	4%	4%	2%	5%	1%	2%
Estonia	EE	EU-13	274	133	92	18	7	25	48%	34%	6%	2%	9%	0%	0%	1%	0%	1%
Greece	EL	EU-15	1,717	473	511	35	665	34	28%	30%	2%	39%	2%	2%	3%	2%	4%	1%
Spain	ES	EU-15	6,379	1,394	2,171	297	2,291	226	22%	34%	5%	36%	4%	5%	11%	14%	13%	8%
Finland	FI	EU-15	1,537	652	400	41	390	55	42%	26%	3%	25%	4%	2%	2%	2%	2%	2%
France	FR	EU-15	7,444	1,128	2,596	200	3,254	266	15%	35%	3%	44%	4%	4%	13%	9%	19%	9%
Croatia	HR	EU-13	138	45	39	13	35	7	32%	28%	9%	25%	5%	0%	0%	1%	0%	0%
Hungary	HU	EU-13	370	98	122	18	83	49	27%	33%	5%	22%	13%	0%	1%	1%	0%	2%
Ireland	IE	EU-15	1,203	689	416	46	32	21	57%	35%	4%	3%	2%	3%	2%	2%	0%	1%
Italy	IT	EU-15	5,699	1,901	2,108	169	1,363	157	33%	37%	3%	24%	3%	7%	11%	8%	8%	5%
Lithuania	LT	EU-13	95	28	32	11	13	12	29%	33%	11%	14%	12%	0%	0%	1%	0%	0%
Luxembourg	LU	EU-15	201	63	86	7	36	9	31%	43%	3%	18%	5%	0%	0%	0%	0%	0%
Latvia	LV	EU-13	117	47	33	12	17	7	40%	28%	11%	14%	6%	0%	0%	1%	0%	0%
Malta	MT	EU-13	37	18	9	7	2	1	48%	25%	19%	6%	3%	0%	0%	0%	0%	0%
Netherlands	NL	EU-15	5,381	2,666	1,313	111	1,000	291	50%	24%	2%	19%	5%	10%	7%	5%	6%	10%
Poland	PL	EU-13	746	206	190	49	211	90	28%	25%	7%	28%	12%	1%	1%	2%	1%	3%
Portugal	PT	EU-15	1,152	301	322	57	437	35	26%	28%	5%	38%	3%	1%	2%	3%	3%	1%
Romania	RO	EU-13	301	63	111	20	79	29	21%	37%	7%	26%	9%	0%	1%	1%	0%	1%
Sweden	SE	EU-15	2,317	1,324	600	165	192	34	57%	26%	7%	8%	1%	5%	3%	8%	1%	1%
Slovenia	SI	EU-13	380	72	135	25	139	9	19%	36%	7%	37%	2%	0%	1%	1%	1%	0%
Slovakia	SK	EU-13	137	48	54	7	19	10	35%	39%	5%	14%	7%	0%	0%	0%	0%	0%
United Kingdom	UK	EU-15	7,849	5,420	1,464	178	632	156	69%	19%	2%	8%	2%	20%	8%	8%	4%	5%
Total EU-28			61,701	23,713	17,674	1,854	15,738	2,722	38%	29%	3%	26%	4%	88%	92%	88%	93%	93%
Total EU-13			3,589	1,158	1,147	217	785	282	32%	32%	6%	22%	8%	4%	6%	10%	5%	10%
Total EU-15			58,112	22,555	16,527	1,638	14,953	2,440	39%	28%	3%	26%	4%	84%	86%	77%	88%	83%
Associated countries			6,094	3,030	1,558	222	1,134	150	50%	26%	4%	19%	2%	11%	8%	10%	7%	5%
Third countries			528	221	68	41	127	70	42%	13%	8%	24%	13%	1%	0%	2%	1%	2%
Total Horizon 2020			68,323	26,964	19,300	2,118	16,999	2,942	39%	28%	3%	25%	4%	100%	100%	100%	100%	100%

Legend:

HES - Higher Education Institutions

REC - Research Organisations

PRC - Private-for-profit entities

PUB - Public bodies

OTH - Other

Table 24: Participation in Horizon 2020 by country (Source: CORDA data – cut-off date: 1 January 2023)

EU-28 Member State	Country code	Country group	Horizon 2020 participations in signed grants over 2014-2020	% of total	Horizon 2020 participations in signed grants per year	000 scientists and Engineers	Share of scientists and engineers in EU28	Participations per '000 scientists and engineers in the population	Number of Horizon 2020 projects with at least 1 participant from the country	% of total
Austria	AT	EU-15	5,092	2.9%	727	329.22	1.9%	15.5	3,232	9.1%
Belgium	BE	EU-15	8,452	4.7%	1,207	466.96	2.7%	18.1	5,056	14.3%
Bulgaria	BG	EU-13	998	0.6%	143	191.5	1.1%	5.2	666	1.9%
Cyprus	CY	EU-13	986	0.6%	141	26.18	0.2%	37.7	736	2.1%
Czechia	CZ	EU-13	1,883	1.1%	269	331.22	1.9%	5.7	1,398	3.9%
Germany	DE	EU-15	20,787	11.7%	2,970	3090.6	18.0%	6.7	9,937	28.1%
Denmark	DK	EU-15	4,002	2.2%	572	282.94	1.6%	14.1	2,910	8.2%
Estonia	EE	EU-13	899	0.5%	128	44.44	0.3%	20.2	701	2.0%
Greece	EL	EU-15	5,502	3.1%	786	250.76	1.5%	21.9	2,901	8.2%
Spain	ES	EU-15	18,885	10.6%	2,698	1380.32	8.0%	13.7	8,808	24.9%
Finland	FI	EU-15	3,512	2.0%	502	277.42	1.6%	12.7	2,243	6.3%
France	FR	EU-15	17,155	9.6%	2,451	1739.62	10.1%	9.9	8,005	22.6%
Croatia	HR	EU-13	820	0.5%	117	96.66	0.6%	8.5	584	1.6%
Hungary	HU	EU-13	1,555	0.9%	222	260.3	1.5%	6.0	1,144	3.2%
Ireland	IE	EU-15	2,966	1.7%	424	231.44	1.3%	12.8	2,161	6.1%
Italy	IT	EU-15	17,176	9.6%	2,454	1043.38	6.1%	16.5	7,893	22.3%
Lithuania	LT	EU-13	619	0.3%	88	97.28	0.6%	6.4	504	1.4%
Luxembourg	LU	EU-15	629	0.4%	90	26.94	0.2%	23.3	539	1.5%
Latvia	LV	EU-13	551	0.3%	79	47.54	0.3%	11.6	437	1.2%
Malta	MT	EU-13	263	0.1%	38	16.02	0.1%	16.4	192	0.5%
Netherlands	NL	EU-15	11,131	6.2%	1,590	834.52	4.9%	13.3	6,178	17.4%
Poland	PL	EU-13	2,855	1.6%	408	1169.98	6.8%	2.4	1,959	5.5%
Portugal	PT	EU-15	3,961	2.2%	566	371.82	2.2%	10.7	2,447	6.9%
Romania	RO	EU-13	1,619	0.9%	231	534.36	3.1%	3.0	1,056	3.0%
Sweden	SE	EU-15	5,214	2.9%	745	581.6	3.4%	9.0	3,408	9.6%
Slovenia	SI	EU-13	1,480	0.8%	211	78.36	0.5%	18.9	1,016	2.9%
Slovakia	SK	EU-13	697	0.4%	100	104.44	0.6%	6.7	516	1.5%
United Kingdom	UK	EU-15	17,458	9.8%	2,494	3280.05	19.1%	5.3	10,517	29.7%
Total EU-28			157,147	88.2%	22,450	17185.87	100.0%	9.1	32,552	91.9%
<i>Total EU-13</i>			<i>15,225</i>	<i>8.5%</i>	<i>2,175</i>	<i>2998.28</i>	<i>17.4%</i>	<i>5.1</i>	<i>6,374</i>	<i>18.0%</i>
<i>Total EU-15</i>			<i>141,922</i>	<i>79.7%</i>	<i>20,275</i>	<i>14187.59</i>	<i>82.6%</i>	<i>10.0</i>	<i>31,364</i>	<i>88.5%</i>
Associated countries			13,669	7.7%	1,953				7,958	22.5%
Third countries			7,288	4.1%	1,041				3,221	9.1%
Total Horizon 2020			178,104	100.0%	25,443				35,426	100.0%

Table 25: Horizon 2020 investments by country (Source: CORDA data – cut-off date: 1 January 2023)

EU-28 Member State	Country code	Country group	Horizon 2020 investments in signed grants (EUR million) over 2014-2020	% of total H2020 investment	% of H2020 investment in EU-28	Horizon 2020 investments in signed grants (EUR million) per year	GERD (in EUR million)*	Horizon 2020 investment in EUR per EUR million of GERD	European Innovation Scoreboard Country Group (2014)	European Innovation Scoreboard Country Group (2020)
Austria	AT	EU-15	1,956	2.9%	3.2%	279	11394.48271	17,162	FOLLOWER	STRONG
Belgium	BE	EU-15	3,395	5.0%	5.5%	485	12297.66929	27,607	FOLLOWER	STRONG
Bulgaria	BG	EU-13	162	0.2%	0.3%	23	428.3682857	37,772	MODEST	MODEST
Cyprus	CY	EU-13	318	0.5%	0.5%	45	123.7331429	257,030	FOLLOWER	MODERATE
Czechia	CZ	EU-13	513	0.8%	0.8%	73	3625.455286	14,143	MODERATE	MODERATE
Germany	DE	EU-15	10,119	14.8%	16.4%	1,446	98004.74043	10,325	LEADER	STRONG
Denmark	DK	EU-15	1,764	2.6%	2.9%	252	8687.528429	20,301	LEADER	LEADER
Estonia	EE	EU-13	274	0.4%	0.4%	39	351.96	77,852	FOLLOWER	STRONG
Greece	EL	EU-15	1,717	2.5%	2.8%	245	1,999.48	85,892	MODERATE	MODERATE
Spain	ES	EU-15	6,379	9.3%	10.3%	911	14,228.82	44,829	MODERATE	MODERATE
Finland	FI	EU-15	1,537	2.2%	2.5%	220	6,395.40	24,033	LEADER	LEADER
France	FR	EU-15	7,444	10.9%	12.1%	1,063	50,802.01	14,653	FOLLOWER	STRONG
Croatia	HR	EU-13	138	0.2%	0.2%	20	467.09	29,543	MODERATE	MODERATE
Hungary	HU	EU-13	370	0.5%	0.6%	53	1,770.11	20,905	MODERATE	MODERATE
Ireland	IE	EU-15	1,203	1.8%	2.0%	172	3,679.56	32,703	FOLLOWER	STRONG
Italy	IT	EU-15	5,699	8.3%	9.2%	814	23,917.67	23,828	MODERATE	MODERATE
Lithuania	LT	EU-13	95	0.1%	0.2%	14	423.37	22,541	MODERATE	MODERATE
Luxembourg	LU	EU-15	201	0.3%	0.3%	29	695.91	28,914	FOLLOWER	LEADER
Latvia	LV	EU-13	117	0.2%	0.2%	17	164.70	70,738	MODEST	MODERATE
Malta	MT	EU-13	37	0.1%	0.1%	5	71.08	52,520	MODERATE	MODERATE
Netherlands	NL	EU-15	5,381	7.9%	8.7%	769	16,218.14	33,177	FOLLOWER	LEADER
Poland	PL	EU-13	746	1.1%	1.2%	107	5,355.02	13,934	MODERATE	MODERATE
Portugal	PT	EU-15	1,152	1.7%	1.9%	165	2,633.90	43,747	MODERATE	STRONG
Romania	RO	EU-13	301	0.4%	0.5%	43	891.27	33,807	MODEST	MODEST
Sweden	SE	EU-15	2,317	3.4%	3.8%	331	15,444.75	14,999	LEADER	LEADER
Slovenia	SI	EU-13	380	0.6%	0.6%	54	892.64	42,577	FOLLOWER	MODERATE
Slovakia	SK	EU-13	137	0.2%	0.2%	20	764.74	17,908	MODERATE	MODERATE
United Kingdom	UK	EU-15	7,849	11.5%	12.7%	1,121	41,322.07	18,995	FOLLOWER	STRONG
Total EU-28			61,701	90.3%	100.0%	8,814	323,052	19,099	FOLLOWER	STRONG
<i>Total EU-13</i>			<i>3,589</i>	<i>5.3%</i>		<i>8,535</i>	<i>15,330</i>	<i>23,412</i>		
<i>Total EU-15</i>			<i>58,112</i>	<i>85.1%</i>		<i>16,864</i>	<i>307,722</i>	<i>18,885</i>		
Associated countries			6,094	8.9%		25,376				
Third countries			528	0.8%		42,195				
Total Horizon 2020			68,323	100.0%		67,498				

* Source: Eurostat

Funding rates and leverage

Table 26: Horizon 2020 **funding rates and direct leverage factors**, by type of action

	Funding rate, in %¹³⁴	Direct leverage factor (PRC), in EUR
Horizon 2020	varies	0.23 (0.57)
Horizon 2020 excluding fundamental research (ERC, MSCA) and CSA	varies	0.35 (0.63)
RIA	100	0.05 (0.08)
IA	70 (100 for non-profit)	0.24 (0.62)
SME Instrument	-	0.43
JTIs	varies	1.08
ERA-NET Cofund	33	2.2
EJP Cofund	70	0.92
KICs	-	0.23
Art. 185	varies	0.52

Notes: Definitions provided in glossary. Data is retrieved from e-CORDA (cut-off date 07/02/2023). For Art. 185 TFEU initiatives only 40% of the cost data is available.

Table 27: Horizon 2020 direct leverage factors for Innovation Actions (IA), by programme part

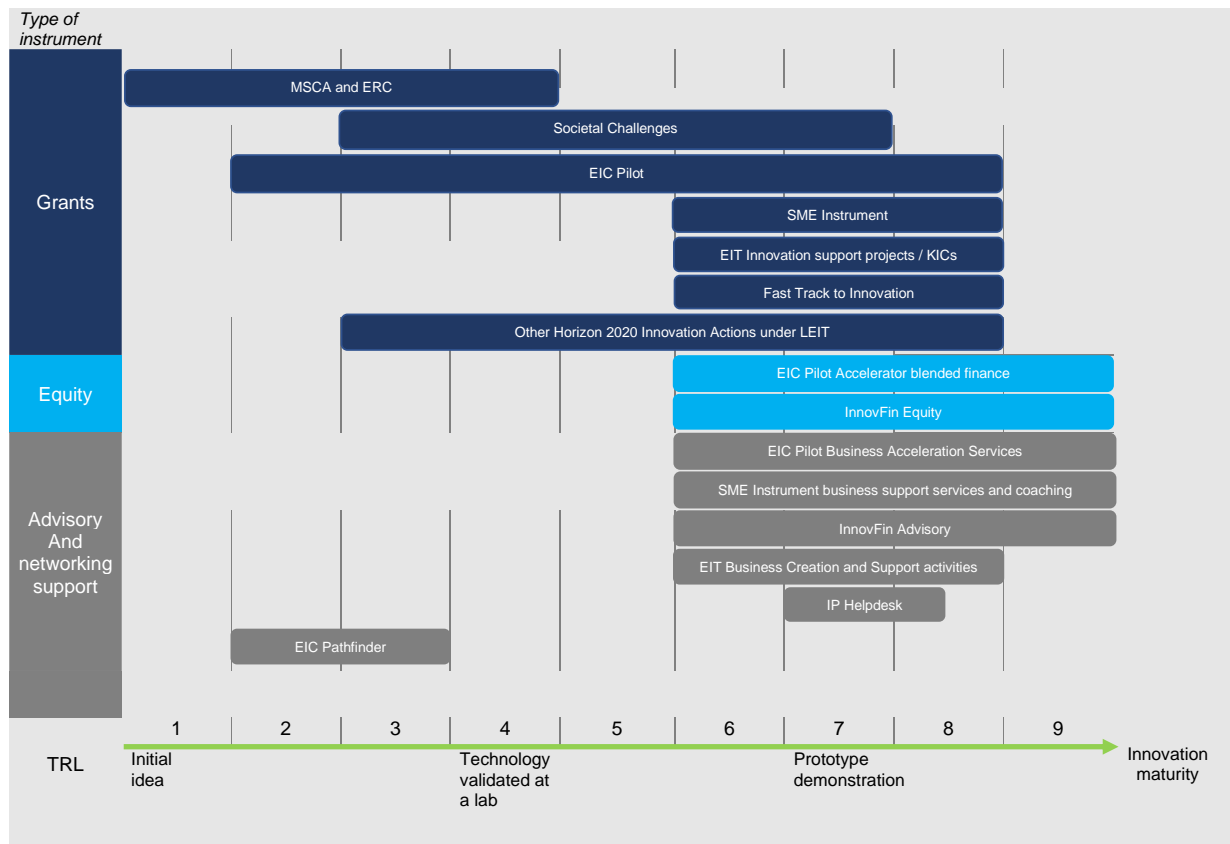
Programme part	Direct leverage factor, in EUR
Secure, clean and efficient energy	0.44
Smart, green and integrated transport	0.26
Secure societies - protecting the freedom and security of Europe and its citizens	0.21
Leadership in enabling and industrial technologies (LEIT)	0.2
Climate action, environment, resource efficiency and raw materials	0.15

Notes: Definitions provided in the glossary. Data from ECORDA (cut-off date 07/02/2023). Only the programme parts with the highest leverage (first five) are presented.

¹³⁴ Actual funding rate can be lower as applicants can request less funding than the maximum amount defined by the funding rate. The reasons some applicants request less funding than the maximum vary, but one is that they may receive funding from another source. Lower requested amount (lower funding rate) translates into higher direct leverage factor (see glossary for definitions and formal relationship among the two).

Level of TRLs

Figure 62: Selected features of Horizon 2020 support across the **TRL scale**



Source: European Commission, Directorate-General for Research and Innovation, Evaluation study on the European Innovation Council (EIC) pilot: final report, Publications Office of the European Union, 2022, p. 60, <https://data.europa.eu/doi/10.2777/261324> - updated by PPMI for the Innovative Europe evaluation study (2023) and adapted by DG RTD in May 2023.