

# H2020 publication data

*Data and analysis from the OpenAIRE infrastructure Oct 10, 2017*

## Basic information

Total of **14.948** projects - **3.844 (25.7%)** of them have ended and **11.104** are ongoing. OpenAIRE has identified **19.174** publications linked to **3.196** projects.

## How did we identify them?

- Through deposits on institutional or thematic repositories or OA publishing. Our network of National Open Access Desks in 33 European countries carries out activities so that researchers deposit print- or post-print publications in institutional or thematic repositories, or publish in OA journals. Fully OpenAIRE compliant repositories/journals automatically identify and report these publications.
- Integrated EC's reporting databases into OpenAIRE data, and perform a cross checked with existing OpenAIRE data, CrossRef, BASE and oadoi.org to ensure all metadata field are complete.
- Claims on the portal (i.e., linking publications from non OpenAIRE compliant repositories and journals to grants) from researchers or project coordinators: 1,410 publications claimed by 434 users.
- Text mining for H2020 grants in full text of OA publications.

## What type of publications?

H2020 publications by type

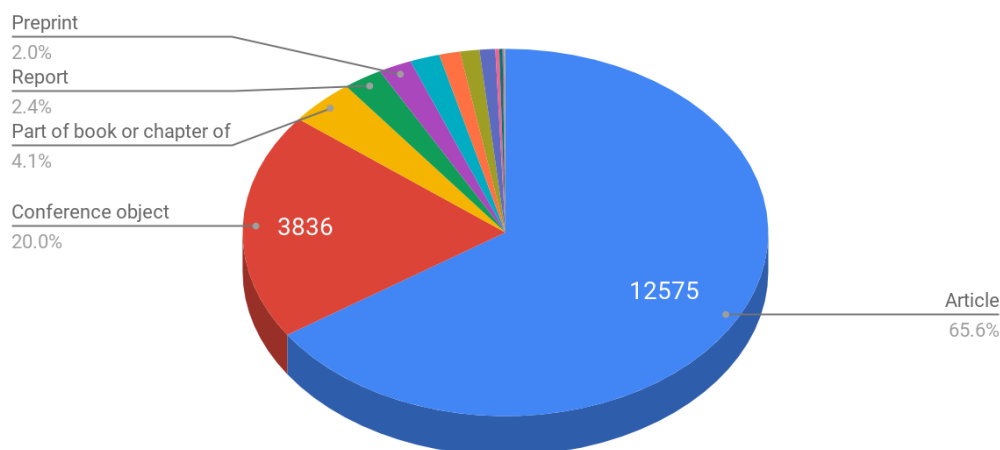


Figure 1. H2020 publications by type

**Table 1. H2020 publications by type**

Type <sup>1</sup>	Publications
Article	12.575
Conference object	3.836
Part of book or chapter of book	778
Report	464
Preprint	392
Unknown	351
Lecture	246
Other	229
Research	185
Book	46
Doctoral thesis	38
Master thesis	9
Review	8
Data Paper	5
External research report	5
Dataset	2
Annotation	2
Bachelor thesis	2
Software Paper	1

## Overall observations and statistics

**17,245 H2020 publications have a DOI** and 8,918 have links to the Scimago (<http://www.scimagojr.com>) database. These numbers could potentially be further analyzed via CrossRef (disambiguation, de-duplication), if CrossRef's API allowed advanced querying.

**Table 2. H2020 publication timeline**

Year	Publications
2013	44
2014	192
2015	2808
2016	10.218
2017	5.688
N/A	224
<b>Total</b>	<b>19.174</b>

<sup>1</sup> The typology in Table 1 is based on the OpenAIRE guidelines vocabulary.

H2020 timeline

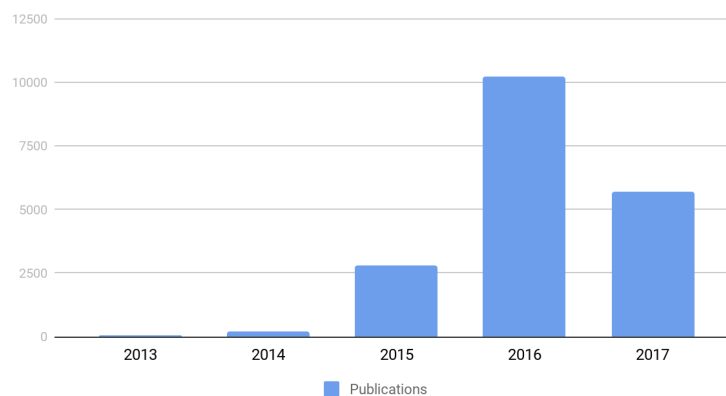


Figure 2. H2020 timeline diagram

Table 3. H2020 timeline by scientific area

Scientific area	2013	2014	2015	2016	2017	Total
BBI					1	1
BBI.R10				1	5	6
BBI.VC1.R1				1		1
BBI.VC2.R2			1	1	1	3
BBI.VC2.R4				1	2	3
BES				3		3
BG			24	96	107	227
BIOTEC			6	40	28	74
COMPET			21	36	32	89
CULT				1	3	4
DRS			3	27	22	52
DS			9	48	9	66
ECSEL			22	63	46	131
EE			13	27	19	59
EeB			3	24	8	35
EINFRA	2	2	59	237	190	490
EO			9	35	15	59
ERC	3	29	502	2330	1314	4178
EUB			1	64	29	94
EUJ			11	34	13	58
EUK				8	14	22
EURATOM	1	68	290	358	178	895
EURO	1	2	23	86	34	146

Scientific area	2013	2014	2015	2016	2017	Total
Europe		1				1
FCH				7	6	13
FCT			4	9	10	23
FETFLAGSHIP			3	65	118	186
FETHPC		2	15	100	53	170
FETOPEN			19	154	80	253
FETPROACT		16	156	234	76	482
FoF		3	31	105	37	176
FTIPilot				4	2	6
GALILEO	1	1	10	14	2	28
GARRI			2	2		4
GEANT			2	2	1	5
GERI					6	6
GV			1	17	12	30
H2020	8	6	15	456	120	605
HCO				23	10	33
Health			12	26	11	49
ICT	4	12	636	1601	650	2903
IMI2					1	1
INFRADEV	10	18	66	235	142	471
INFRAIA	6	9	77	296	140	528
INFRASUPP	1		2	15	33	51
INNOSUP				2	3	5
INSO	1		5	35	12	53
INT				20	21	41
IRIMA				2	6	8
ISIB		1	2	10	21	34
ISSI				1	2	3
IT		3		1		4
JTI	1		1	1	1	4
LCE			31	141	98	270
MG			21	131	36	188
MSCA	3	17	426	2031	1303	3780
NFRP			4	19	5	28
NMBP					6	6
NMP			9	89	75	173
PHC			145	561	346	1052
PROTEC			15	23	5	43

Scientific area	2013	2014	2015	2016	2017	Total
REFLECTIVE			4	41	23	<b>68</b>
REV				1		<b>1</b>
RUR				1		<b>1</b>
S2R					1	<b>1</b>
SC1				4	15	<b>19</b>
SC5	2	1	30	103	99	<b>235</b>
SCC			1	2	4	<b>7</b>
SEAC				9	5	<b>14</b>
SEC					1	<b>1</b>
SECURITY				1		<b>1</b>
Sesar				11	6	<b>17</b>
SFS		1	23	156	83	<b>263</b>
SIE				2	4	<b>6</b>
SMEInst				2	5	<b>7</b>
SPACE			25	12	6	<b>43</b>
SPIRE			2	22	12	<b>36</b>
WASTE			3	16	14	<b>33</b>
WATER			12	41	32	<b>85</b>
WIDESPREAD	1		19	74	26	<b>120</b>
YOUNG			3	6	1	<b>10</b>
<b>Total Result</b>	<b>45</b>	<b>192</b>	<b>2.829</b>	<b>10.457</b>	<b>5.857</b>	<b>19.380</b>

### H2020 publications by scientific area

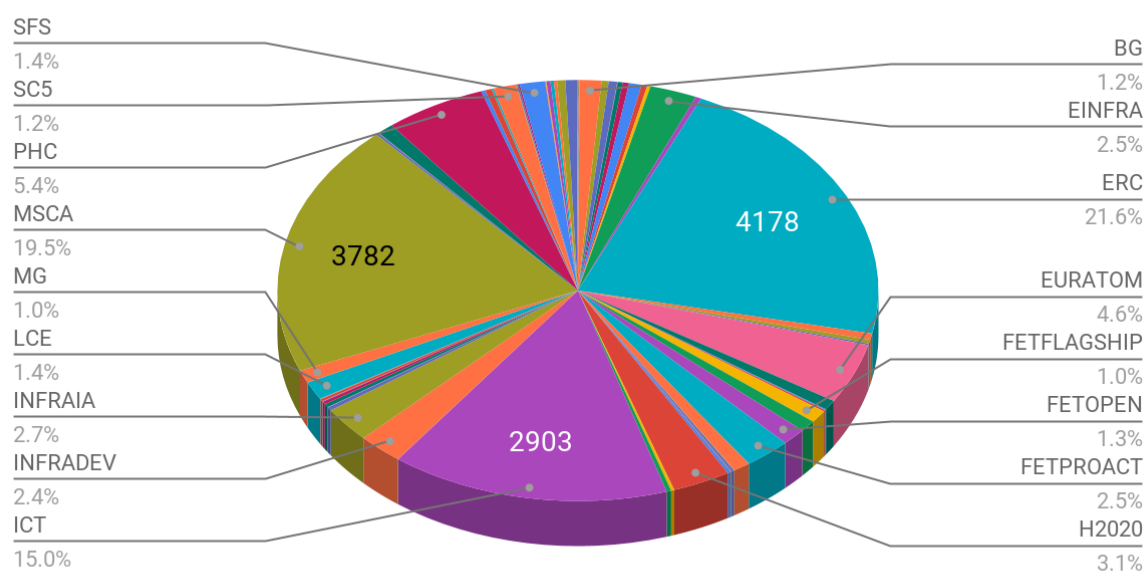


Figure 3. H2020 by scientific area

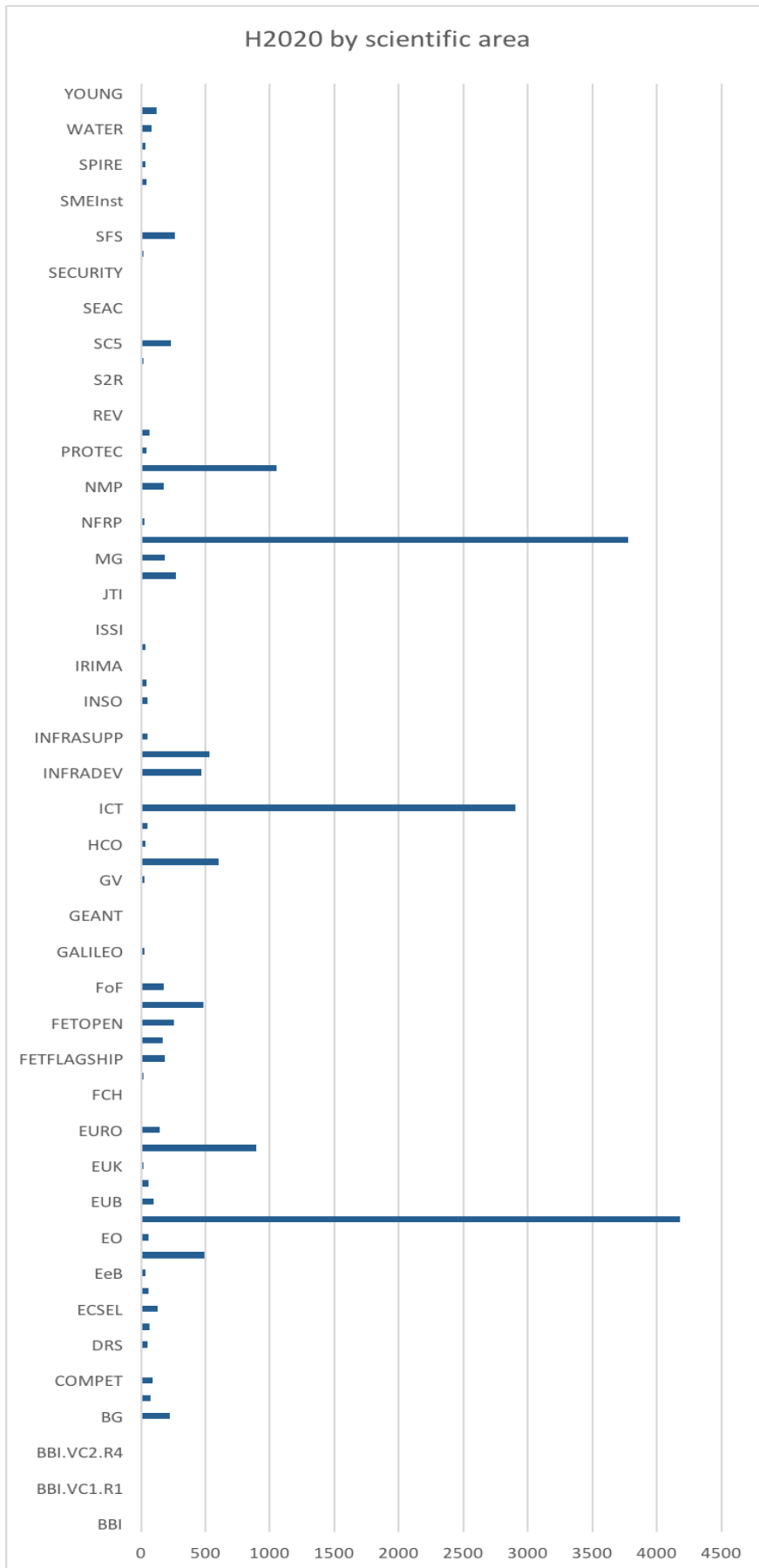


Figure 4. H2020 by scientific area

## H2020 timeline by scientific area

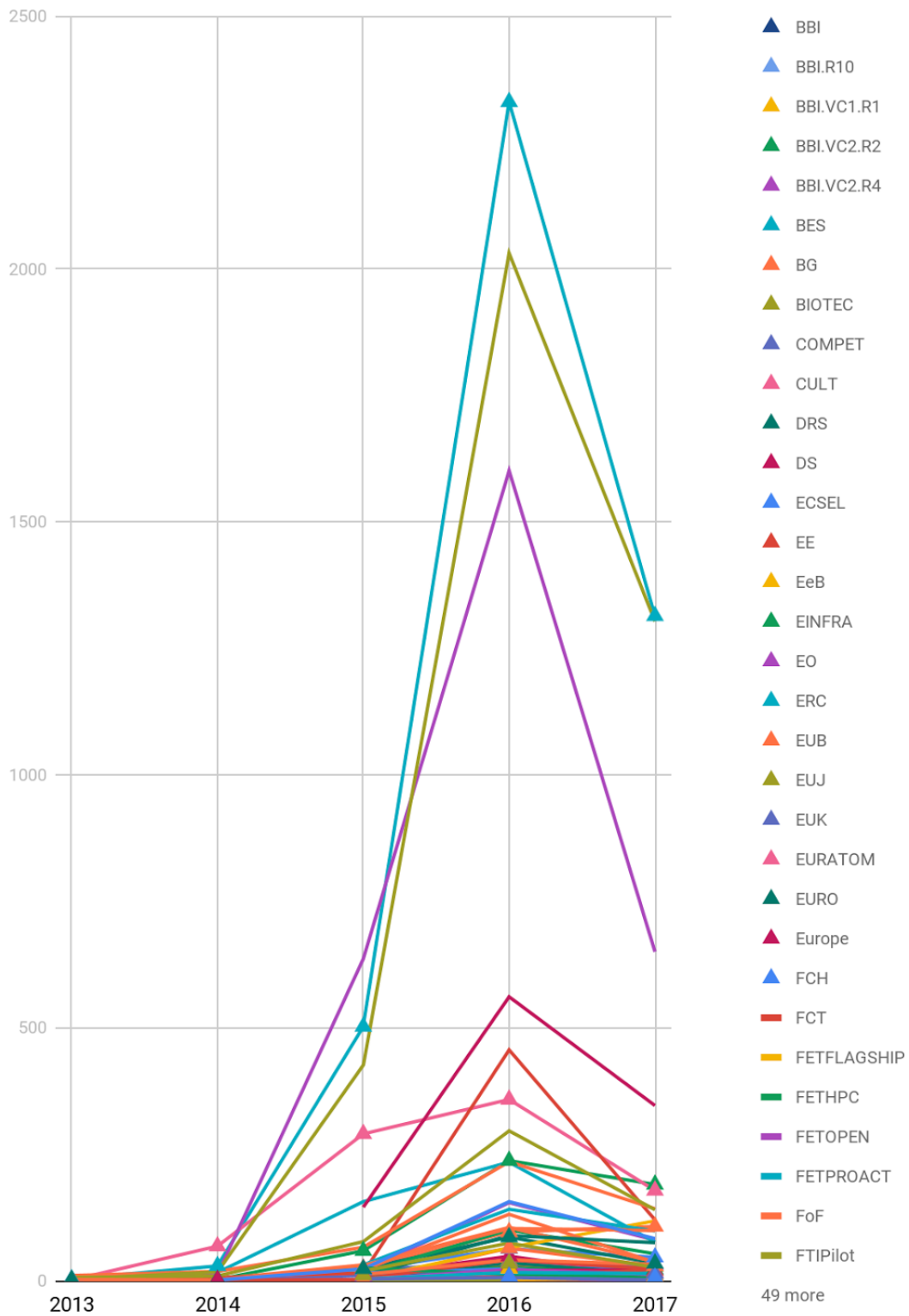


Figure 5. H2020 timeline by scientific area

**Table 4. H2020 timeline by funding scheme**

Funding Scheme	2013	2014	2015	2016	2017	Total
BBI-RIA			1	4	9	<b>14</b>
COFUND-EJP	1	68	290	358	178	<b>895</b>
COFUND-PCP					1	<b>1</b>
CS2-IA	1		1		1	<b>3</b>
CS2-RIA				1		<b>1</b>
CSA	9	8	137	758	312	<b>1.224</b>
CSA-LS				1	1	<b>2</b>
ECSEL-IA			17	25	20	<b>62</b>
ECSEL-RIA			5	38	26	<b>69</b>
ERA-NET-Cofund				7	13	<b>20</b>
ERC	3	28	500	2330	1314	<b>4.175</b>
FCH2-IA				5		<b>5</b>
FCH2-RIA				2	6	<b>8</b>
IA	2	3	154	483	235	<b>877</b>
IMI2-RIA					1	<b>1</b>
MSCA-COFUND-DP					4	<b>4</b>
MSCA-COFUND-FP		1	1	14	25	<b>41</b>
MSCA-IF-EF-CAR		1	1	5	4	<b>11</b>
MSCA-IF-EF-RI			34	83	48	<b>165</b>
MSCA-IF-EF-ST		8	116	641	439	<b>1.204</b>
MSCA-IF-GF			8	82	60	<b>150</b>
MSCA-ITN-EID			1	23	21	<b>45</b>
MSCA-ITN-EJD			6	35	64	<b>105</b>
MSCA-ITN-ETN		2	87	558	345	<b>992</b>
MSCA-RISE	3	5	173	640	323	<b>1.144</b>
RIA	24	65	1285	4256	2252	<b>7.882</b>
SESAR-RIA				11	6	<b>17</b>
SGA-CSA	1		1	6	2	<b>10</b>
SGA-RIA			5	67	119	<b>191</b>
Shift2Rail-RIA					1	<b>1</b>
SME-1	1		2	5	1	<b>9</b>
SME-2		3	7	31	31	<b>72</b>
<b>Total</b>	<b>45</b>	<b>192</b>	<b>2.832</b>	<b>10.469</b>	<b>5.862</b>	<b>19.400</b>



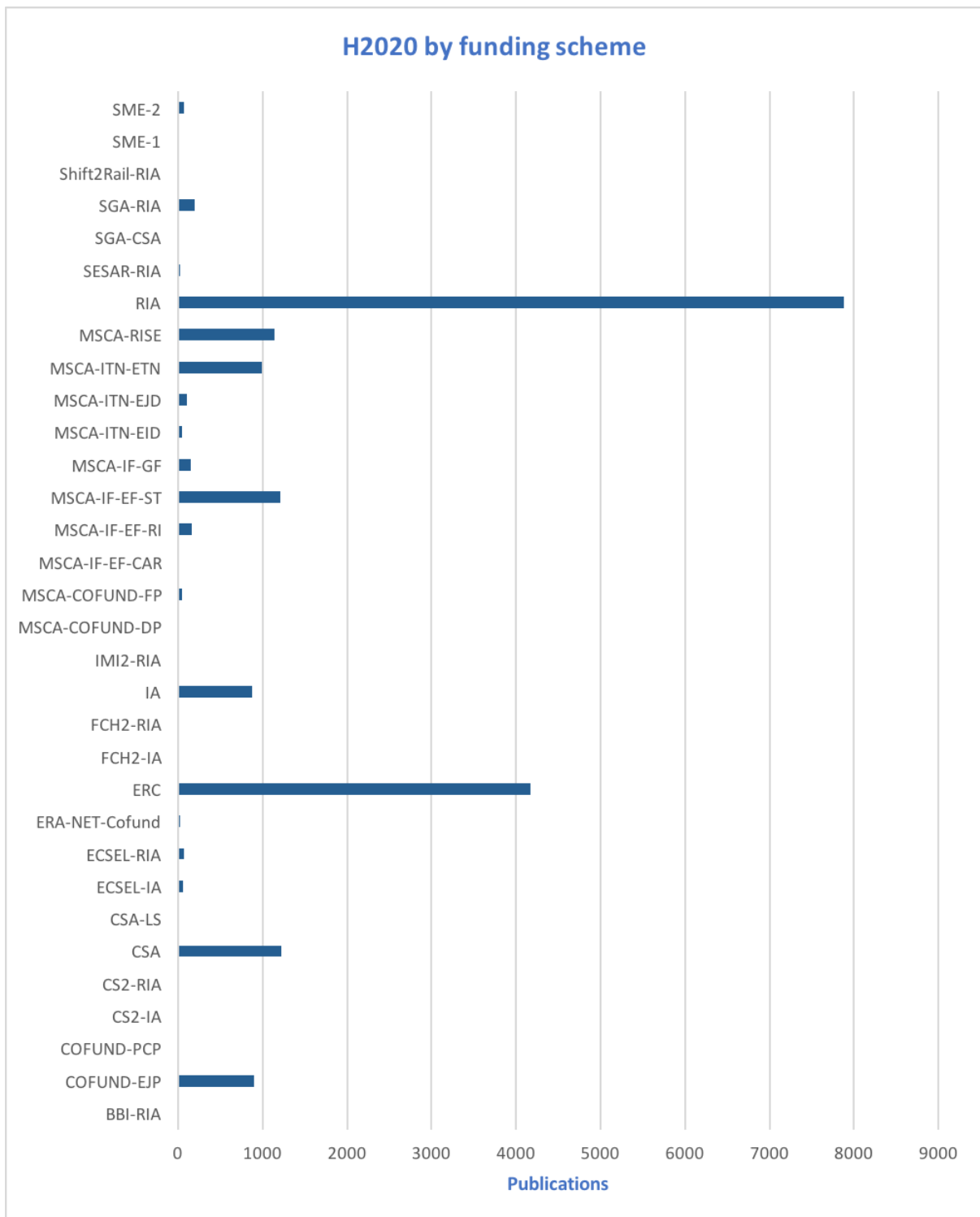


Figure 6. H2020 by funding scheme

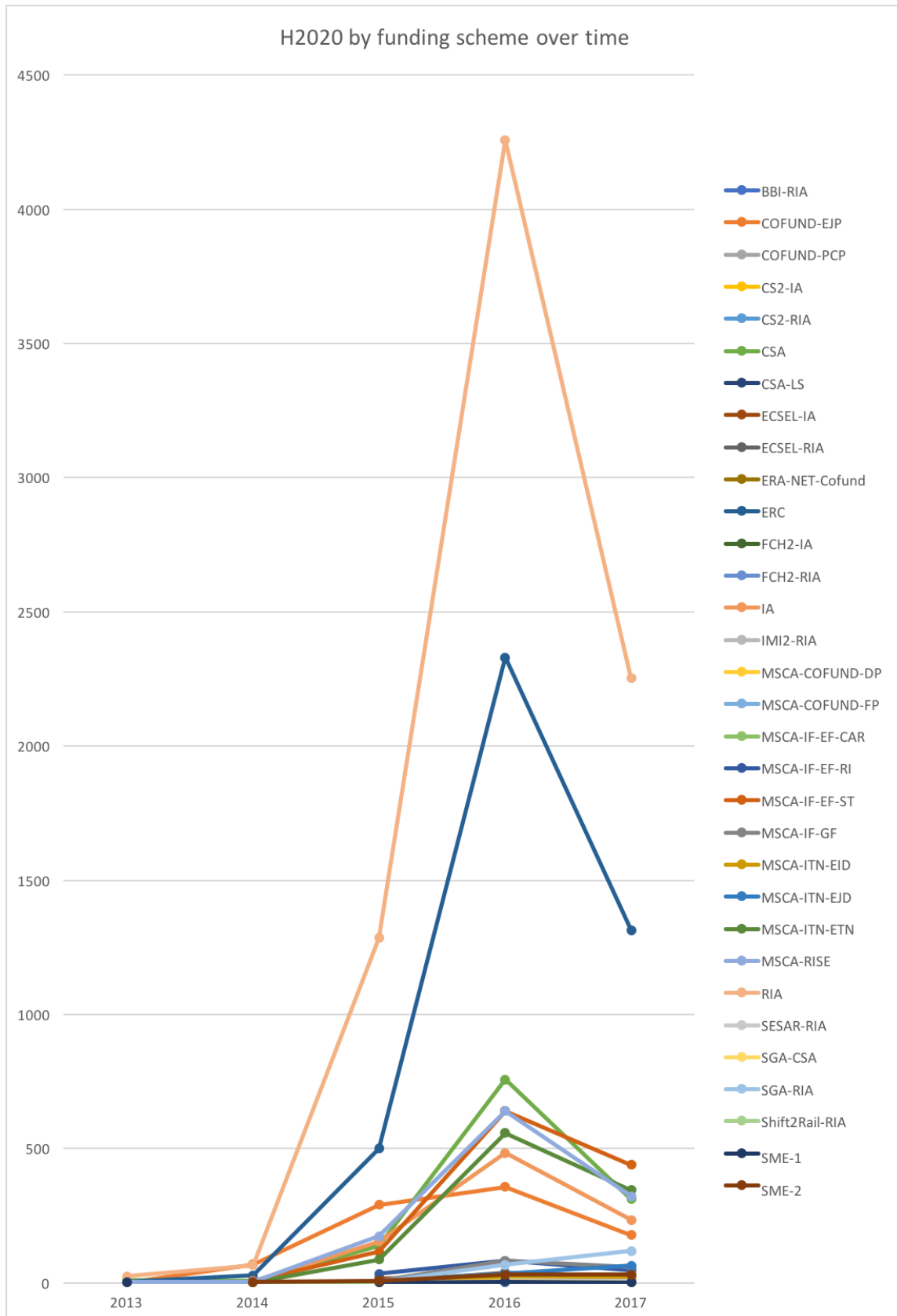


Figure 7. H2020 timeline by funding scheme over time

Projects **publish anywhere from 1 to a max of 895 publications, with an average of 6 publications per project.**

**Table 5. H2020 project publication outputs by funding scheme**

Funding Scheme	Actual	Min	Max	Average
BBI-RIA	14	1	6	3
COFUND-EJP	895	895	895	895
COFUND-PCP	1	1	1	1
CS2-IA	3	1	2	2
CS2-RIA	1	1	1	1
CSA	1.224	1	97	8
CSA-LS	2	1	1	1
ECSEL-IA	62	1	20	8
ECSEL-RIA	69	1	16	7
ERA-NET-Cofund	20	1	8	4
ERC	4.175	1	45	4
FCH2-IA	5	5	5	5
FCH2-RIA	8	1	2	1
IA	877	1	30	5
IMI2-RIA	1	1	1	1
MSCA-COFUND-DP	4	1	2	1
MSCA-COFUND-FP	41	1	19	6
MSCA-IF-EF-CAR	11	1	3	1
MSCA-IF-EF-RI	165	1	46	4
MSCA-IF-EF-ST	1.206	1	19	3
MSCA-IF-GF	150	1	15	3
MSCA-ITN-EID	45	1	11	3
MSCA-ITN-EJD	105	1	30	8
MSCA-ITN-ETN	992	1	95	7
MSCA-RISE	1.144	1	91	8
RIA	7.883	1	198	10
SESA-RIA	17	1	3	2
SGA-CSA	10	1	3	2
SGA-RIA	191	5	132	64
Shift2Rail-RIA	1	1	1	1
SME-1	9	1	5	2
SME-2	72	1	20	2
<b>Total Result</b>	<b>19.403</b>	<b>1</b>	<b>895</b>	<b>6</b>

Table 6. H2020 project publication outputs by scientific area

Scientific Area	Actual	Min	Max	Average
BBI	1	1	1	1
BBI.R10	6	6	6	6
BBI.VC1.R1	1	1	1	1
BBI.VC2.R2	3	3	3	3
BBI.VC2.R4	3	3	3	3
BES	3	1	2	2
BG	227	1	117	14
BIOTEC	74	1	23	7
COMPET	89	1	27	6
CULT	4	1	2	1
DRS	52	1	12	3
DS	66	1	9	5
ECSEL	131	1	20	7
EE	59	1	13	3
EeB	35	1	18	4
EINFRA	490	1	63	19
EO	59	1	35	5
ERC	4178	1	45	4
EUB	94	2	52	19
EUJ	58	2	24	10
EUK	22	2	13	7
EURATOM	895	895	895	895
EURO	147	1	64	11
Europe	1	1	1	1
FCH	13	1	5	2
FCT	23	1	4	2
FETFLAGSHIP	186	54	132	93
FETHPC	170	1	34	9
FETOPEN	253	1	41	6
FETPROACT	482	1	73	28
FoF	176	1	26	6
FTIPilot	6	1	2	1
GALILEO	28	1	8	3
GARRI	4	1	1	1
GEANT	5	5	5	5
GERI	6	2	4	3
GV	30	1	7	3
H2020	605	1	97	14
HCO	33	1	12	4
Health	49	1	23	12
ICT	2903	1	119	10
IMI2	1	1	1	1
INFRADEV	471	1	198	22
INFRAIA	528	1	136	25
INFRASUPP	51	1	27	8
INNOSUP	5	1	3	2
INSO	53	1	24	6
INT	41	1	27	10

Scientific Area	Actual	Min	Max	Average
IRIMA	8	8	8	8
ISIB	34	2	12	4
ISSI	3	1	1	1
IT	4	1	3	2
JTI	4	1	2	1
LCE	270	1	52	5
MG	188	1	36	4
MSCA	3782	1	95	4
NFRP	28	1	9	3
NMBP	6	1	3	2
NMP	173	1	39	5
PHC	1052	1	91	8
PROTEC	43	1	25	11
REFLECTIVE	68	1	24	8
REV	1	1	1	1
RUR	1	1	1	1
S2R	1	1	1	1
SC1	19	1	8	2
SC5	235	1	40	6
SCC	7	1	4	2
SEAC	14	1	5	3
SEC	1	1	1	1
SECURITY	1	1	1	1
Sesar	17	1	3	2
SFS	263	1	62	8
SIE	6	1	1	1
SMEInst	7	1	3	1
Space	2	2	2	2
SPACE	41	3	38	21
SPIRE	36	1	8	3
WASTE	33	1	16	5
WATER	85	1	24	5
WIDESPREAD	120	1	32	7
YOUNG	10	1	4	2
<b>Total</b>	<b>19.383</b>	<b>1</b>	<b>895</b>	<b>6</b>

## Open Access Evaluation

From the total of 19.174 H2020 publications 12.122 are OA, 120 are restricted (i.e., OA but with a more restrictive license or restricted to specific groups), while 117 are still in embargo. **This translates to (a minimum) of 63.2% success rate.**<sup>1</sup>

<sup>1</sup> The overall data is biased towards closed access as 1. we have not yet started to define OA articles in hybrid journals – this will happen in a few months with joint work from OpenMintED ([www.openminted.eu](http://www.openminted.eu)) and CORE ([core.ac.uk](http://core.ac.uk)), and 2. there is still a large number of not fully OpenAIRE compliant repositories (i.e., no funding information attached to the publication metadata) so H2020 publications may have been deposited but not yet identified.

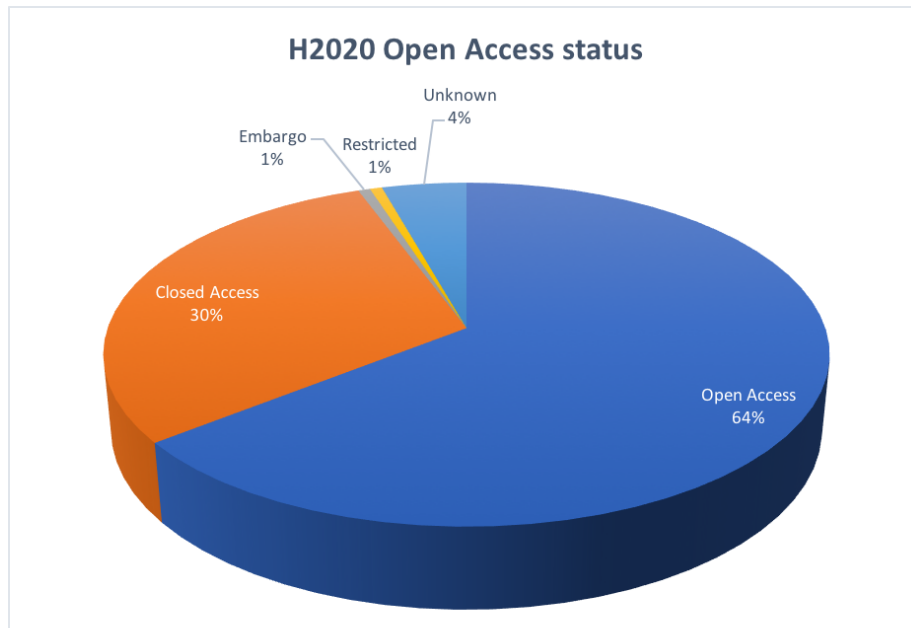


Figure 8. Overall H2020 OA evaluation

Table 7 shows the breakdown of H2020 publications from 2013-2017 broken down by their access state. Publications reported to EC’s participant portal are usually not accompanied by their OA status or license. In this case we used BASE<sup>1</sup> and oadoi.org data to identify correct access.

Table 7. H2020 publications 2007-2016 by access status

Year	Open Access	Closed Access	Embargo	Restricted	Unknown	Total	OA success rate
2013	28	16				44	<b>64%</b>
2014	137	55				192	<b>71%</b>
2015	1.714	817	1	18	258	2.808	<b>61%</b>
2016	6.333	3.240	50	72	523	10.218	<b>62%</b>
2017	3.989	1.557	66	29	47	5.688	<b>70%</b>
<b>Total</b>	<b>12.201</b>	<b>5.685</b>	<b>117</b>	<b>119</b>	<b>828</b>	<b>18.950</b>	<b>64%</b>

<sup>1</sup> <https://www.base-search.net/about/en/>

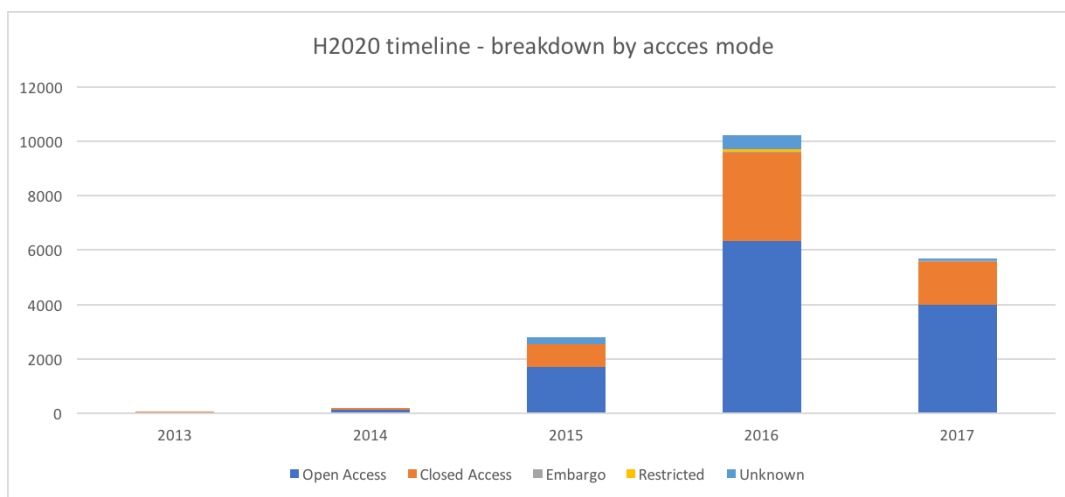


Figure 9. H2020 timeline, including OA status

### Green vs. Gold

The following table and figure shows an estimate of Green and Gold OA<sup>1</sup> over the H2020 lifetime:<sup>2</sup>

Table 8. H2020 green vs. gold over the years

Year	OA-DOI	DOAJ-DOI	REPOS-OA-DOI	REPOS-OA-DOI Articles + conference objects
2013	20	4	19	19
2014	112	19	110	90
2015	1.459	350	1.446	1.309
2016	5.482	1.545	5.401	4.811
2017	3.417	1.125	3.236	2.744

<sup>1</sup> As there are more H2020 publications in non-OpenAIRE compatible repositories the green estimate is on the low side. But a

<sup>2</sup> Depositions in repositories usually have a lag (i.e., we will see more of 2015-2016 publications deposited at the time of this report writing).

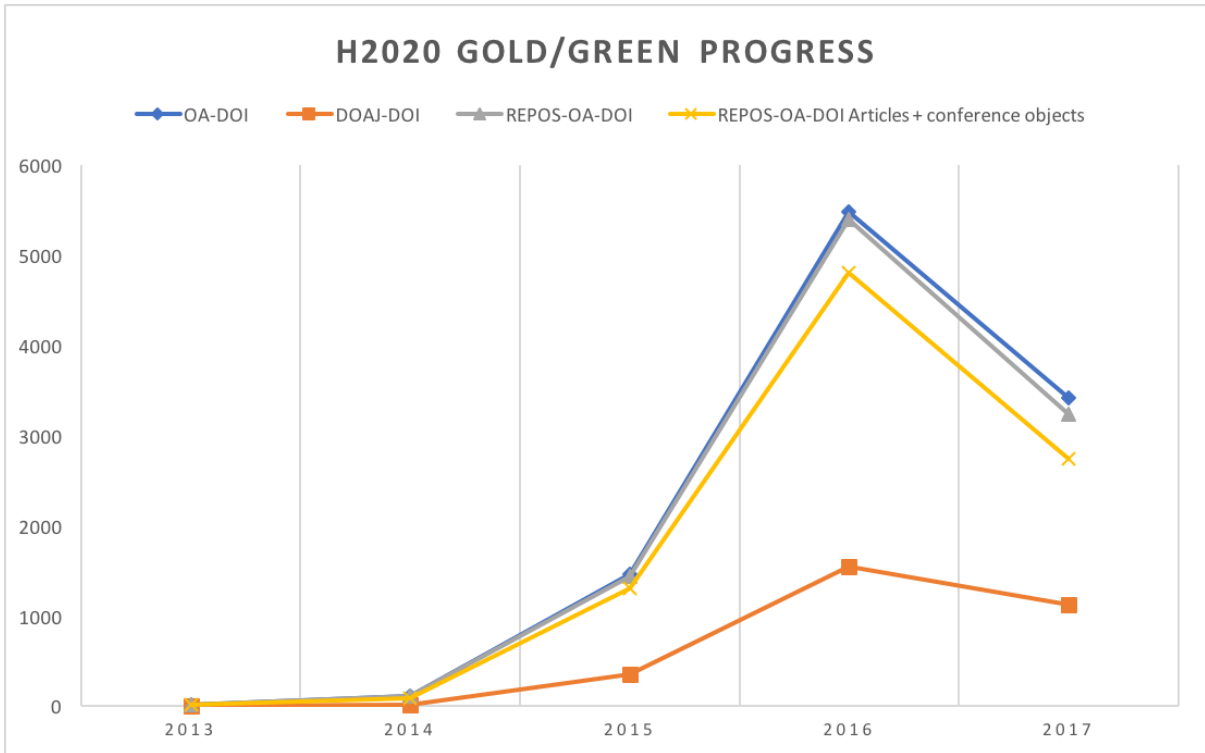


Figure 10. H2020 Gold / Green progress

### H2020 publications by scientific area

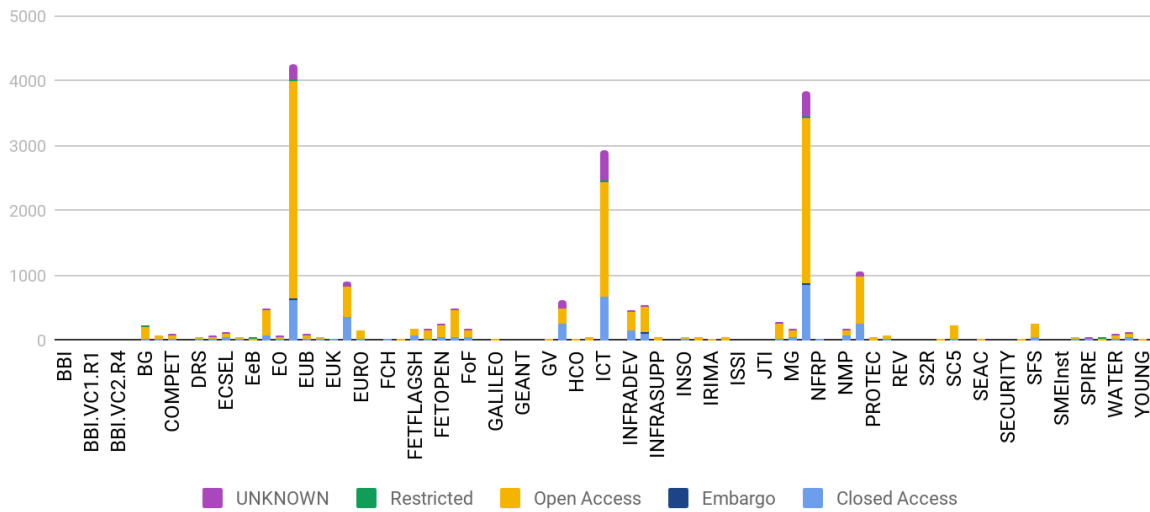


Figure 11. H2020 OA status by scientific area



**Table 9. H2020 OA status by scientific area**

Scientific area	Total	Open Access	Closed Access	Embargo	Restricted	Unknown	OA success rate
BBI	1	1					100%
BBI.R10	6	5		1			83%
BBI.VC1.R1	1	1					100%
BBI.VC2.R2	3					3	0%
BBI.VC2.R4	3		2			1	0%
BES	3	1	1			1	33%
BG	228	189	11	3	13	12	83%
BIOTEC	75	53	18	2		2	71%
COMPET	89	44	26		3	16	49%
CULT	4	3	1				75%
DRS	53	33	15			5	62%
DS	67	27	32			8	40%
ECSEL	131	54	45			32	41%
EE	59	32	12	1		14	54%
EeB	35	25	7		2	1	71%
EINFRA	493	393	62	10	5	23	80%
EO	60	46	9	1		4	77%
ERC	4249	3363	607	25	17	237	79%
EUB	94	48	28	2		16	51%
EUJ	58	19	21			18	33%
EUK	24	4	11			9	17%
EURATOM	895	452	363	2	3	75	51%
EURO	148	119	26			3	80%
Europe	1	1					100%
FCH	14	4	8			2	29%
FCT	24	16	6			2	67%
FETFLAGSHIP	187	120	66			1	64%
FETHPC	171	112	32		5	22	65%
FETOPEN	255	187	50	1		17	73%
FETPROACT	487	408	55		2	22	84%
FoF	176	99	43		13	21	56%
FTIPilot	7	1	5			1	14%
GALILEO	28	15	2			11	54%
GARRI	4	4					100%
GEANT	5	1	2			2	20%
GERI	6	6					100%
GV	30	22	7			1	73%
H2020	606	231	249		2	124	38%
HCO	33	31	1			1	94%
Health	49	37	4			8	76%
ICT	2921	1768	665	14	18	456	61%
IMI2	1	1					100%
INFRADEV	475	274	153	2	3	43	58%
INFRAIA	533	390	111	4	1	27	73%
INFRASUPP	52	47	3			2	90%
INNOSUP	5	5					100%
INSO	53	34	13	2		4	64%
INT	41	38	2	1			93%
IRIMA	8	7	1				88%
ISIB	34	29	5				85%
ISSI	3	3					100%
IT	4		2			2	0%
JTI	4	2	1		1		50%
LCE	276	214	30	3	3	26	78%

Scientific area	Total	Open Access	Closed Access	Embargo	Restricted	Unknown	OA success rate
MG	189	105	37	3	3	41	56%
MSCA	3847	2526	863	28	22	408	66%
NFRP	28	13	13			2	46%
NMBP	6	2	4				33%
NMP	175	91	62	1	1	20	52%
PHC	1064	720	257	4	3	80	68%
PROTEC	46	30	5		1	10	65%
REFLECTIVE	71	55	12			4	77%
REV	1	1					100%
RUR	1	1					100%
S2R	1	1					100%
SC1	19	19					100%
SC5	236	197	23	6		10	83%
SCC	7	4	1			2	57%
SEAC	14	7	4			3	50%
SEC	1	1					100%
SECURITY	1	1					100%
Sesar	17	14	3				82%
SFS	267	204	45	2		16	76%
SIE	6	2	2			2	33%
SMEInst	7	5				2	71%
SPACE	43	34	8			1	79%
SPIRE	37	12	17			8	32%
WASTE	34	31	2		1		91%
WATER	86	71	9	2		4	83%
WIDESPREAD	120	44	47			29	37%
YOUNG	10	7	3				70%
<b>Total</b>	<b>19.606</b>	<b>13.217</b>	<b>4.230</b>	<b>120</b>	<b>122</b>	<b>1.917</b>	<b>67%</b>

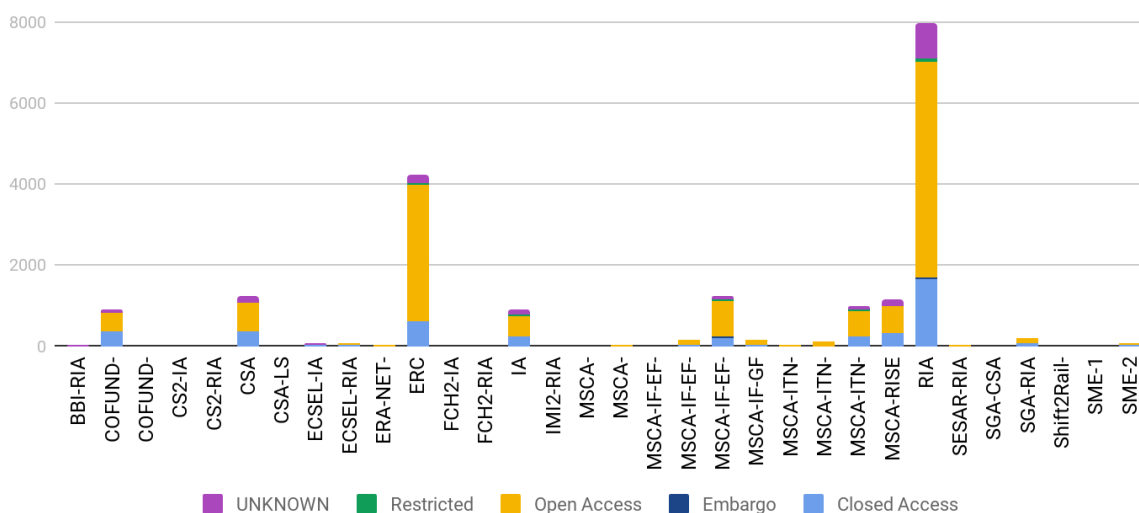


Figure 12. H2020 publications OA status by funding scheme

Table 10. H2020 publication by funding scheme by access status

Funding scheme	Total	OA	Closed Access	Embar go	Restricted	Unknown	OA success rate
BBI-RIA	14	7	2	1		4	50%
COFUND-EJP	895	452	363	2	3	75	51%
COFUND-PCP	1	1					100%
CS2-IA	3	2			1		67%
CS2-RIA	1		1				0%
CSA	1226	702	352	5	4	163	57%
CSA-LS	2	2					100%
ECSEL-IA	62	19	22			21	31%
ECSEL-RIA	69	35	23			11	51%
ERA-NET-Cofund	20	17	3				85%
ERC	4246	3359	607	25	17	238	80%
FCH2-IA	5	1	4				20%
FCH2-RIA	9	3	4			2	34%
IA	887	535	222	3	16	111	60%
IMI2-RIA	1	1					100%
MSCA-COFUND-DP	4	4					100%
MSCA-COFUND-FP	41	33	7	1			80%
MSCA-IF-EF-CAR	11	7	2			2	64%
MSCA-IF-EF-RI	166	131	22	1		12	79%
MSCA-IF-EF-ST	1240	906	218	8	3	105	73%
MSCA-IF-GF	153	107	32	1	2	11	70%
MSCA-ITN-EID	45	28	10			7	62%
MSCA-ITN-EJD	105	91	8		1	5	87%
MSCA-ITN-ETN	1001	642	229	12	10	108	64%
MSCA-RISE	1162	656	334	5	6	161	56%
RIA	7956	5325	1655	56	59	861	67%
SESAR-RIA	17	14	3				82%
SGA-CSA	10	2	1	7			20%
SGA-RIA	192	121	68			3	63%
Shift2Rail-RIA	1	1					100%
SME-1	9	9					100%
SME-2	72	21	33			18	29%
<b>Total Result</b>	<b>19.626</b>	<b>13.234</b>	<b>4.225</b>	<b>127</b>	<b>122</b>	<b>1.918</b>	<b>67%</b>

## Advanced Statistics

### Co-funded with other funders

The following diagram illustrates a breakdown and total number of co-funded publications with additional funders OpenAIRE has data on (more are in the pipeline). The data for additional funders mainly comes from text mining of full publications (only one portion of the OpenAIRE data), so the following can only be considered as an indicator.

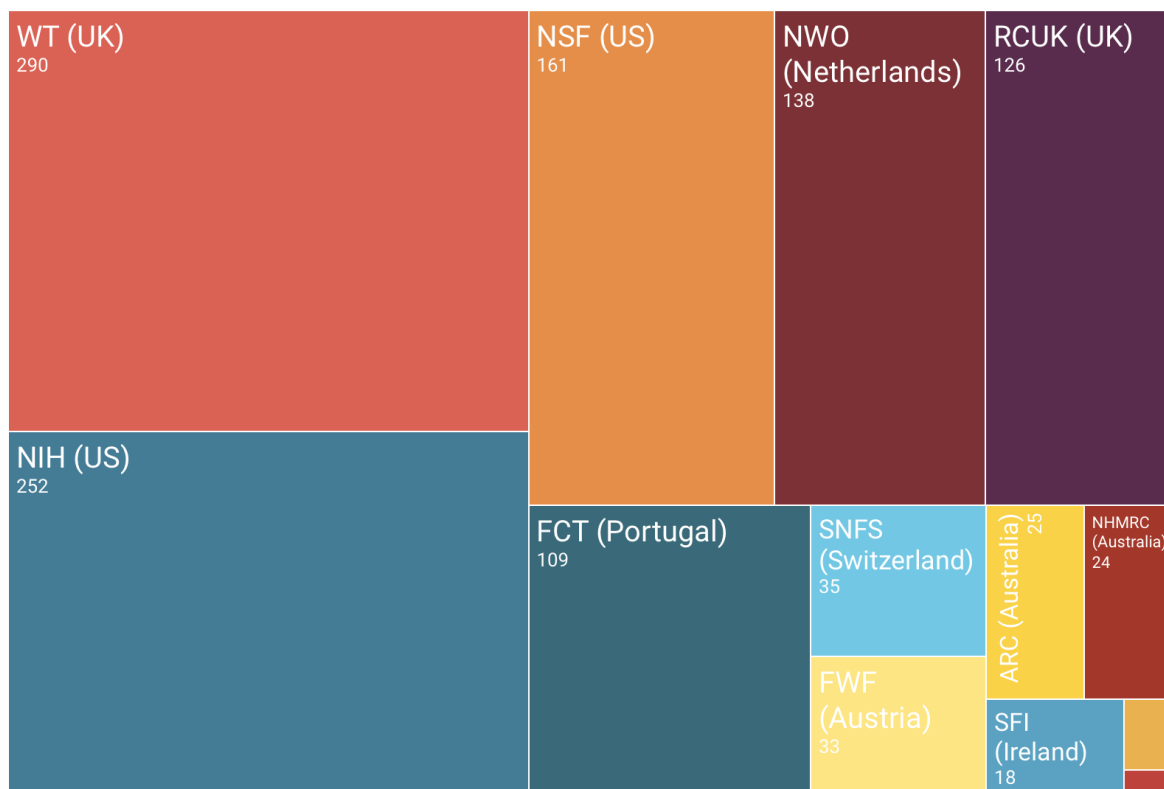


Figure 13. H2020 co-funded publications

## Impact

After we cross-matched the OpenAIRE data to Scimago's latest web files (data retrieved September 2017), we were able to come up with the data in Table 11 and Table 12 "High impact" journals are statistically computed for each thematic area by retrieving journals with the top 25% higher citation factors.

**Table 11. Impact of H2020 articles from Scimago citation factors.**

Scientific area	Articles in 'peer-reviewed journals'	Articles in 'peer-reviewed high impact journal'	High impact success rate	OA articles in 'peer-reviewed journals'	OA articles in 'peer-reviewed high impact journal'	Overall OA success rate
BBI.VC1.R1	1	1	100.00%	1	1	100.00%
BBI.VC2.R2	3	3	100.00%	0	0	0.00%
BBI.VC2.R4	2	2	100.00%	0	0	0.00%
BES	1	0	0.00%	0	0	0.00%
BG	58	43	74.14%	45	35	77.78%
BIOTEC	29	28	96.55%	23	22	95.65%
COMPET	38	30	78.95%	22	21	95.45%
DRS	13	10	76.92%	5	5	100.00%
DS	11	9	81.82%	4	4	100.00%
ECSEL	30	18	60.00%	13	5	38.46%
EE	27	16	59.26%	15	9	60.00%
EINFRA	143	119	83.22%	98	85	86.73%
EO	37	34	91.89%	31	28	90.32%
ERC	2460	2224	90.41%	1977	1793	90.69%
EUB	11	8	72.73%	7	6	85.71%
EUJ	15	13	86.67%	7	5	71.43%
EUK	3	2	66.67%	2	1	50.00%
EURATOM	771	474	61.48%	339	280	82.60%
EURO	25	15	60.00%	15	6	40.00%
EeB	6	5	83.33%	5	4	80.00%
FCH	7	6	85.71%	1	1	100.00%
FCT	3	1	33.33%	2	0	0.00%
FETFLAGSHIP	82	76	92.68%	69	64	92.75%
FETHPC	29	20	68.97%	24	19	79.17%
FETOPEN	132	120	90.91%	97	91	93.81%
FETPROACT	279	243	87.10%	248	219	88.31%
FTIPilot	3	2	66.67%	1	1	100.00%
FoF	18	9	50.00%	10	6	60.00%
GALILEO	5	3	60.00%	3	1	33.33%
GARRI	1	0	0.00%	1	1	100.00%
GEANT	2	0	0.00%	0	0	0.00%
GV	5	3	60.00%	4	2	50.00%
H2020	333	251	75.38%	150	123	82.00%

Scientific area	Articles in 'peer-reviewed journals'	Articles in 'peer-reviewed high impact journal'	High impact success rate	OA articles in 'peer-reviewed journals'	OA articles in 'peer-reviewed high impact journal'	Overall OA success rate
HCO	23	21	91.30%	22	20	90.91%
Health	41	40	97.56%	31	31	100.00%
ICT	494	345	69.84%	284	192	67.61%
INFRADEV	261	192	73.56%	127	106	83.46%
INFRAIA	289	254	87.89%	223	209	93.72%
INFRASUPP	6	2	33.33%	3	0	0.00%
INSO	4	2	50.00%	2	0	0.00%
INT	4	2	50.00%	3	2	66.67%
IRIMA	7	7	100.00%	7	7	100.00%
ISIB	10	10	100.00%	6	6	100.00%
ISSI	1	1	100.00%	1	1	100.00%
JTI	1	0	0.00%	0	0	0.00%
LCE	93	74	79.57%	70	59	84.29%
MG	42	33	78.57%	25	17	68.00%
MSCA	2173	1738	79.98%	1466	1182	80.63%
NFRP	17	6	35.29%	8	6	75.00%
NMBP	3	3	100.00%	1	1	100.00%
NMP	92	77	83.70%	48	42	87.50%
PHC	592	531	89.70%	415	376	90.60%
PROTEC	26	16	61.54%	18	12	66.67%
R10	5	5	100.00%	4	4	100.00%
REFLECTIVE	5	4	80.00%	4	3	75.00%
SC1	14	13	92.86%	14	13	92.86%
SC5	106	92	86.79%	78	69	88.46%
SCC	2	0	0.00%	2	1	50.00%
SECURITY	1	0	0.00%	1	0	0.00%
SFS	118	95	80.51%	80	70	87.50%
SIE	4	3	75.00%	2	2	100.00%
SMEInst	1	1	100.00%	1	1	100.00%
SPACE	13	13	100.00%	12	12	100.00%
SPIRE	13	8	61.54%	6	4	66.67%
Sesar	6	6	100.00%	5	5	100.00%
WASTE	4	2	50.00%	2	1	50.00%
WATER	31	23	74.19%	22	16	72.73%
WIDESPREAD	39	21	53.85%	10	7	70.00%
YOUNG	4	3	75.00%	1	1	100.00%

**Table 12. Impact of H2020 articles from Scimago citation factors.**

<b>Funding scheme</b>	<b>Articles in 'peer-reviewed journals'</b>	<b>Articles in 'peer-reviewed high impact journal'</b>	<b>High impact success rate</b>	<b>OA articles in 'peer-reviewed journals'</b>	<b>OA articles in 'peer-reviewed high impact journal'</b>	<b>Overall OA success rate</b>
BBI-RIA	11	11	100.00%	5	5	100.00%
COFUND-EJP	771	474	61.48%	251	192	76.49%
CS2-IA	1	0	0.00%	0	0	0.00%
CSA	445	320	71.91%	176	129	73.30%
ECSEL-IA	11	7	63.64%	3	2	66.67%
ECSEL-RIA	19	11	57.89%	10	3	30.00%
ERA-NET-Cofund	10	6	60.00%	8	4	50.00%
ERC	2459	2223	90.40%	1868	1684	90.15%
FCH2-IA	3	3	100.00%	0	0	0.00%
FCH2-RIA	4	3	75.00%	0	0	0.00%
IA	183	122	66.67%	104	67	64.42%
MSCA-COFUND-DP	4	3	75.00%	4	3	75.00%
MSCA-COFUND-FP	26	19	73.08%	22	15	68.18%
MSCA-IF-EF-CAR	7	5	71.43%	5	3	60.00%
MSCA-IF-EF-RI	85	75	88.24%	61	55	90.16%
MSCA-IF-EF-ST	761	661	86.86%	544	469	86.21%
MSCA-IF-GF	87	79	90.80%	59	53	89.83%
MSCA-ITN-EID	18	17	94.44%	13	12	92.31%
MSCA-ITN-EJD	37	27	72.97%	33	24	72.73%
MSCA-ITN-ETN	544	413	75.92%	332	233	70.18%
MSCA-RISE	675	461	68.30%	351	225	64.10%
RIA	2869	2369	82.57%	1826	1556	85.21%
SESA-RIA	6	6	100.00%	5	5	100.00%
SGA-CSA	7	5	71.43%	1	1	100.00%
SGA-RIA	84	76	90.48%	67	62	92.54%
SME-1	2	2	100.00%	2	2	100.00%
SME-2	22	16	72.73%	5	5	100.00%

**Table 13. H2020 publications broken down by Scimago's journal classification.**

Journal thematic area	'Peer-reviewed journals'			'Peer-reviewed high impact journals'		
	All	OA	OA rate	All	OA	OA rate
Accounting	5	1	20.00%	0	0	0.00%
Acoustics and Ultrasonics	15	4	26.67%	13	4	30.77%
Advanced and Specialized Nursing	2	1	50.00%	2	1	50.00%
Aerospace Engineering	12	6	50.00%	11	6	54.55%
Aging	23	16	69.57%	16	12	75.00%
Agricultural and Biological Sciences (miscellaneous)	302	288	95.36%	296	284	95.95%
Agronomy and Crop Science	18	5	27.78%	16	3	18.75%
Algebra and Number Theory	8	8	100.00%	4	4	100.00%
Analysis	16	12	75.00%	12	8	66.67%
Analytical Chemistry	136	91	66.91%	53	17	32.08%
Anatomy	5	4	80.00%	5	4	80.00%
Anesthesiology and Pain Medicine	15	9	60.00%	15	9	60.00%
Animal Science and Zoology	26	12	46.15%	15	5	33.33%
Anthropology	13	6	46.15%	12	6	50.00%
Applied Mathematics	154	104	67.53%	98	68	69.39%
Applied Microbiology and Biotechnology	22	16	72.73%	21	15	71.43%
Applied Psychology	10	4	40.00%	7	3	42.86%
Aquatic Science	42	26	61.90%	33	19	57.58%
Archeology	10	3	30.00%	8	2	25.00%
Archeology (arts and humanities)	8	3	37.50%	7	2	28.57%
Architecture	1	1	100.00%	1	1	100.00%
Artificial Intelligence	91	41	45.05%	46	22	47.83%
Arts and Humanities (miscellaneous)	47	23	48.94%	30	13	43.33%
Astronomy and Astrophysics	435	406	93.33%	277	261	94.22%
Atmospheric Science	180	137	76.11%	156	127	81.41%
Atomic and Molecular Physics, and Optics	443	252	56.88%	278	156	56.12%
Automotive Engineering	18	6	33.33%	17	6	35.29%
Behavioral Neuroscience	31	16	51.61%	22	11	50.00%



Journal thematic area	'Peer-reviewed journals'			'Peer-reviewed high impact journals'		
	All	OA	OA rate	All	OA	OA rate
Biochemistry	417	251	60.19%	269	150	55.76%
Biochemistry (medical)	4	1	25.00%	3	1	33.33%
Biochemistry, Genetics and Molecular Biology (miscellaneous)	676	643	95.12%	636	606	95.28%
Bioengineering	139	73	52.52%	116	65	56.03%
Biological Psychiatry	30	17	56.67%	9	6	66.67%
Biomaterials	55	30	54.55%	40	22	55.00%
Biomedical Engineering	126	72	57.14%	89	48	53.93%
Biophysics	83	35	42.17%	46	24	52.17%
Biotechnology	96	67	69.79%	74	58	78.38%
Building and Construction	32	11	34.38%	26	10	38.46%
Business and International Management	8	2	25.00%	4	1	25.00%
Business, Management and Accounting (miscellaneous)	15	9	60.00%	9	5	55.56%
Cancer Research	77	48	62.34%	54	30	55.56%
Cardiology and Cardiovascular Medicine	65	28	43.08%	56	22	39.29%
Catalysis	116	55	47.41%	104	50	48.08%
Cell Biology	167	117	70.06%	126	92	73.02%
Cellular and Molecular Neuroscience	105	88	83.81%	59	50	84.75%
Ceramics and Composites	65	20	30.77%	61	19	31.15%
Chemical Engineering (miscellaneous)	149	66	44.30%	135	57	42.22%
Chemistry (miscellaneous)	736	454	61.68%	718	449	62.53%
Civil and Structural Engineering	277	60	21.66%	57	25	43.86%
Clinical Biochemistry	29	11	37.93%	19	7	36.84%
Clinical Psychology	6	4	66.67%	6	4	66.67%
Cognitive Neuroscience	49	35	71.43%	24	18	75.00%
Colloid and Surface Chemistry	61	33	54.10%	59	33	55.93%
Communication	6	2	33.33%	4	0	0.00%
Community and Home Care	6	0	0.00%	6	0	0.00%
Computational Mathematics	42	27	64.29%	23	14	60.87%

Journal thematic area	'Peer-reviewed journals'			'Peer-reviewed high impact journals'		
	All	OA	OA rate	All	OA	OA rate
Computational Mechanics	12	8	66.67%	11	8	72.73%
Computational Theory and Mathematics	94	75	79.79%	68	55	80.88%
Computer Graphics and Computer-Aided Design	26	18	69.23%	22	15	68.18%
Computer Networks and Communications	157	68	43.31%	104	39	37.50%
Computer Science (miscellaneous)	86	48	55.81%	64	32	50.00%
Computer Science Applications	311	166	53.38%	249	132	53.01%
Computer Vision and Pattern Recognition	30	18	60.00%	25	16	64.00%
Computers in Earth Sciences	26	8	30.77%	22	7	31.82%
Condensed Matter Physics	818	361	44.13%	629	307	48.81%
Conservation	6	2	33.33%	6	2	33.33%
Control and Optimization	11	7	63.64%	5	3	60.00%
Control and Systems Engineering	105	41	39.05%	76	28	36.84%
Critical Care and Intensive Care Medicine	5	1	20.00%	4	1	25.00%
Cultural Studies	18	8	44.44%	14	7	50.00%
Decision Sciences (miscellaneous)	4	2	50.00%	3	1	33.33%
Demography	9	5	55.56%	6	4	66.67%
Dentistry (miscellaneous)	1	0	0.00%	1	0	0.00%
Dermatology	3	2	66.67%	2	1	50.00%
Development	9	5	55.56%	4	3	75.00%
Developmental Biology	50	38	76.00%	38	30	78.95%
Developmental Neuroscience	6	6	100.00%	5	5	100.00%
Developmental and Educational Psychology	20	11	55.00%	8	4	50.00%
Discrete Mathematics and Combinatorics	6	4	66.67%	2	2	100.00%
Drug Discovery	42	23	54.76%	32	17	53.13%
Earth and Planetary Sciences (miscellaneous)	121	86	71.07%	116	83	71.55%
Earth-Surface Processes	36	24	66.67%	26	21	80.77%

Journal thematic area	'Peer-reviewed journals'			'Peer-reviewed high impact journals'		
	All	OA	OA rate	All	OA	OA rate
Ecological Modeling	10	4	40.00%	9	4	44.44%
Ecology	65	56	86.15%	60	51	85.00%
Ecology, Evolution, Behavior and Systematics	172	135	78.49%	148	122	82.43%
Economics and Econometrics	65	35	53.85%	21	10	47.62%
Economics, Econometrics and Finance (miscellaneous)	16	11	68.75%	12	8	66.67%
Education	12	5	41.67%	7	2	28.57%
Electrical and Electronic Engineering	537	237	44.13%	337	132	39.17%
Electrochemistry	69	30	43.48%	69	30	43.48%
Electronic, Optical and Magnetic Materials	342	122	35.67%	260	97	37.31%
Embryology	3	2	66.67%	2	1	50.00%
Emergency Medicine	1	1	100.00%	1	1	100.00%
Endocrine and Autonomic Systems	3	1	33.33%	3	1	33.33%
Endocrinology	24	9	37.50%	19	7	36.84%
Endocrinology, Diabetes and Metabolism	41	17	41.46%	35	16	45.71%
Energy (miscellaneous)	93	51	54.84%	76	41	53.95%
Energy Engineering and Power Technology	41	17	41.46%	40	16	40.00%
Engineering (miscellaneous)	153	86	56.21%	108	70	64.81%
Environmental Chemistry	66	25	37.88%	43	20	46.51%
Environmental Engineering	10	3	30.00%	7	3	42.86%
Environmental Science (miscellaneous)	74	44	59.46%	65	39	60.00%
Epidemiology	64	46	71.88%	54	42	77.78%
Equine	1	0	0.00%	1	0	0.00%
Experimental and Cognitive Psychology	15	5	33.33%	4	2	50.00%
Filtration and Separation	4	0	0.00%	4	0	0.00%
Finance	13	8	61.54%	2	2	100.00%
Fluid Flow and Transfer Processes	4	2	50.00%	4	2	50.00%
Food Animals	3	0	0.00%	3	0	0.00%

Journal thematic area	'Peer-reviewed journals'			'Peer-reviewed high impact journals'		
	All	OA	OA rate	All	OA	OA rate
Food Science	27	12	44.44%	22	10	45.45%
Forestry	10	7	70.00%	8	5	62.50%
Fuel Technology	25	12	48.00%	23	12	52.17%
Gastroenterology	11	6	54.55%	10	6	60.00%
Gender Studies	3	1	33.33%	1	1	100.00%
Genetics	279	219	78.49%	241	192	79.67%
Genetics (clinical)	78	58	74.36%	57	41	71.93%
Geochemistry and Petrology	31	12	38.71%	21	10	47.62%
Geography, Planning and Development	64	39	60.94%	31	17	54.84%
Geology	40	14	35.00%	32	12	37.50%
Geometry and Topology	14	9	64.29%	6	3	50.00%
Geophysics	69	30	43.48%	53	27	50.94%
Geotechnical Engineering and Engineering Geology	17	1	5.88%	14	1	7.14%
Geriatrics and Gerontology	51	19	37.25%	21	10	47.62%
Gerontology	17	3	17.65%	12	2	16.67%
Global and Planetary Change	20	7	35.00%	13	6	46.15%
Hardware and Architecture	113	64	56.64%	75	45	60.00%
Health (social science)	42	15	35.71%	35	13	37.14%
Health Informatics	29	25	86.21%	17	15	88.24%
Health Information Management	5	1	20.00%	5	1	20.00%
Health Policy	28	20	71.43%	23	18	78.26%
Health, Toxicology and Mutagenesis	40	19	47.50%	35	16	45.71%
Hematology	34	17	50.00%	33	17	51.52%
Hepatology	3	0	0.00%	3	0	0.00%
Histology	4	1	25.00%	4	1	25.00%
History	32	13	40.63%	25	11	44.00%
History and Philosophy of Science	59	30	50.85%	56	27	48.21%
Horticulture	3	1	33.33%	3	1	33.33%
Human Factors and Ergonomics	3	1	33.33%	2	1	50.00%

Journal thematic area	'Peer-reviewed journals'			'Peer-reviewed high impact journals'		
	All	OA	OA rate	All	OA	OA rate
Human-Computer Interaction	26	17	65.38%	13	10	76.92%
Immunology	145	107	73.79%	117	88	75.21%
Immunology and Allergy	74	60	81.08%	65	53	81.54%
Immunology and Microbiology (miscellaneous)	137	128	93.43%	104	95	91.35%
Industrial Relations	1	0	0.00%	1	0	0.00%
Industrial and Manufacturing Engineering	55	16	29.09%	46	13	28.26%
Infectious Diseases	97	73	75.26%	88	68	77.27%
Information Systems	87	45	51.72%	61	36	59.02%
Information Systems and Management	8	3	37.50%	8	3	37.50%
Inorganic Chemistry	49	16	32.65%	44	14	31.82%
Insect Science	7	4	57.14%	3	2	66.67%
Instrumentation	191	60	31.41%	144	49	34.03%
Internal Medicine	16	5	31.25%	15	5	33.33%
Issues, Ethics and Legal Aspects	3	1	33.33%	2	1	50.00%
Language and Linguistics	21	11	52.38%	16	8	50.00%
Law	31	13	41.94%	22	12	54.55%
Library and Information Sciences	29	21	72.41%	26	18	69.23%
Life-span and Life-course Studies	5	2	40.00%	0	0	0.00%
Linguistics and Language	22	12	54.55%	16	8	50.00%
Literature and Literary Theory	1	0	0.00%	1	0	0.00%
Logic	10	6	60.00%	3	2	66.67%
Management Information Systems	2	0	0.00%	1	0	0.00%
Management Science and Operations Research	19	14	73.68%	14	12	85.71%
Management of Technology and Innovation	11	5	45.45%	4	3	75.00%
Management, Monitoring, Policy and Law	49	29	59.18%	27	14	51.85%
Marketing	4	2	50.00%	2	2	100.00%

Journal thematic area	'Peer-reviewed journals'			'Peer-reviewed high impact journals'		
	All	OA	OA rate	All	OA	OA rate
Materials Chemistry	164	64	39.02%	153	61	39.87%
Materials Science (miscellaneous)	694	262	37.75%	430	200	46.51%
Mathematical Physics	114	59	51.75%	10	9	90.00%
Mathematics (miscellaneous)	61	38	62.30%	26	16	61.54%
Mechanical Engineering	439	149	33.94%	203	106	52.22%
Mechanics of Materials	134	54	40.30%	121	50	41.32%
Media Technology	14	6	42.86%	14	6	42.86%
Medical Laboratory Technology	1	0	0.00%	1	0	0.00%
Medicine (miscellaneous)	791	608	76.86%	675	506	74.96%
Metals and Alloys	60	22	36.67%	57	21	36.84%
Microbiology	87	65	74.71%	64	57	89.06%
Microbiology (medical)	79	73	92.41%	75	69	92.00%
Modeling and Simulation	119	91	76.47%	83	64	77.11%
Molecular Biology	314	225	71.66%	225	164	72.89%
Molecular Medicine	71	48	67.61%	53	37	69.81%
Multidisciplinary	528	472	89.39%	528	472	89.39%
Museology	1	1	100.00%	1	1	100.00%
Music	3	1	33.33%	2	0	0.00%
Nanoscience and Nanotechnology	361	183	50.69%	312	155	49.68%
Nature and Landscape Conservation	12	10	83.33%	8	6	75.00%
Nephrology	10	4	40.00%	10	4	40.00%
Neurology	62	40	64.52%	47	31	65.96%
Neurology (clinical)	63	38	60.32%	56	34	60.71%
Neuropsychology and Physiological Psychology	27	15	55.56%	23	13	56.52%
Neuroscience (miscellaneous)	193	162	83.94%	141	114	80.85%
Nuclear Energy and Engineering	406	114	28.08%	184	79	42.93%
Nuclear and High Energy Physics	523	304	58.13%	224	120	53.57%
Numerical Analysis	10	6	60.00%	7	3	42.86%
Nursing (miscellaneous)	1	0	0.00%	1	0	0.00%
Nutrition and Dietetics	19	8	42.11%	16	7	43.75%

Journal thematic area	'Peer-reviewed journals'			'Peer-reviewed high impact journals'		
	All	OA	OA rate	All	OA	OA rate
Obstetrics and Gynecology	8	4	50.00%	5	2	40.00%
Occupational Therapy	1	1	100.00%	0	0	0.00%
Ocean Engineering	18	8	44.44%	9	5	55.56%
Oceanography	42	21	50.00%	25	16	64.00%
Oncology	83	47	56.63%	64	34	53.13%
Oncology (nursing)	3	0	0.00%	3	0	0.00%
Ophthalmology	12	6	50.00%	9	4	44.44%
Optometry	1	0	0.00%	0	0	0.00%
Oral Surgery	1	0	0.00%	1	0	0.00%
Organic Chemistry	89	47	52.81%	70	35	50.00%
Organizational Behavior and Human Resource Management	5	3	60.00%	4	2	50.00%
Orthopedics and Sports Medicine	6	2	33.33%	5	2	40.00%
Paleontology	11	6	54.55%	10	6	60.00%
Parasitology	34	23	67.65%	24	19	79.17%
Pathology and Forensic Medicine	11	5	45.45%	8	4	50.00%
Pediatrics, Perinatology and Child Health	7	3	42.86%	5	3	60.00%
Pharmaceutical Science	37	18	48.65%	34	17	50.00%
Pharmacology	80	43	53.75%	69	39	56.52%
Pharmacology (medical)	38	22	57.89%	30	19	63.33%
Pharmacology, Toxicology and Pharmaceutics (miscellaneous)	34	31	91.18%	34	31	91.18%
Philosophy	40	21	52.50%	33	17	51.52%
Physical Therapy, Sports Therapy and Rehabilitation	5	2	40.00%	4	2	50.00%
Physical and Theoretical Chemistry	242	117	48.35%	214	105	49.07%
Physics and Astronomy (miscellaneous)	952	718	75.42%	788	638	80.96%
Physiology	70	52	74.29%	51	36	70.59%
Physiology (medical)	47	25	53.19%	28	10	35.71%
Plant Science	83	48	57.83%	74	47	63.51%
Political Science and International Relations	26	6	23.08%	13	3	23.08%

Journal thematic area	'Peer-reviewed journals'			'Peer-reviewed high impact journals'		
	All	OA	OA rate	All	OA	OA rate
Pollution	51	13	25.49%	42	11	26.19%
Polymers and Plastics	45	22	48.89%	40	22	55.00%
Process Chemistry and Technology	9	3	33.33%	7	2	28.57%
Psychiatric Mental Health	3	1	33.33%	3	1	33.33%
Psychiatry and Mental Health	65	34	52.31%	60	33	55.00%
Psychology (miscellaneous)	44	34	77.27%	39	33	84.62%
Public Administration	5	2	40.00%	4	1	25.00%
Public Health, Environmental and Occupational Health	106	61	57.55%	91	55	60.44%
Pulmonary and Respiratory Medicine	14	6	42.86%	8	4	50.00%
Radiation	27	4	14.81%	10	3	30.00%
Radiological and Ultrasound Technology	8	4	50.00%	7	3	42.86%
Radiology, Nuclear Medicine and Imaging	40	24	60.00%	29	16	55.17%
Rehabilitation	8	6	75.00%	8	6	75.00%
Religious Studies	4	2	50.00%	4	2	50.00%
Renewable Energy, Sustainability and the Environment	104	56	53.85%	75	36	48.00%
Reproductive Medicine	7	3	42.86%	6	2	33.33%
Rheumatology	3	2	66.67%	3	2	66.67%
Safety Research	2	1	50.00%	0	0	0.00%
Safety, Risk, Reliability and Quality	22	6	27.27%	16	6	37.50%
Sensory Systems	16	8	50.00%	4	4	100.00%
Signal Processing	45	25	55.56%	38	21	55.26%
Small Animals	1	0	0.00%	1	0	0.00%
Social Psychology	15	5	33.33%	7	3	42.86%
Social Sciences (miscellaneous)	59	28	47.46%	44	19	43.18%
Social Work	2	1	50.00%	1	1	100.00%
Sociology and Political Science	66	28	42.42%	38	10	26.32%
Software	208	95	45.67%	101	50	49.50%



Journal thematic area	'Peer-reviewed journals'			'Peer-reviewed high impact journals'		
	All	OA	OA rate	All	OA	OA rate
Soil Science	29	14	48.28%	24	13	54.17%
Space and Planetary Science	398	368	92.46%	366	345	94.26%
Spectroscopy	45	20	44.44%	32	17	53.13%
Sports Science	7	4	57.14%	6	4	66.67%
Statistical and Nonlinear Physics	50	39	78.00%	23	17	73.91%
Statistics and Probability	56	46	82.14%	15	11	73.33%
Statistics, Probability and Uncertainty	13	10	76.92%	4	4	100.00%
Strategy and Management	16	10	62.50%	13	9	69.23%
Stratigraphy	7	3	42.86%	7	3	42.86%
Structural Biology	57	41	71.93%	22	13	59.09%
Surfaces and Interfaces	31	16	51.61%	21	11	52.38%
Surfaces, Coatings and Films	158	57	36.08%	143	50	34.97%
Surgery	12	10	83.33%	5	5	100.00%
Theoretical Computer Science	69	44	63.77%	28	18	64.29%
Tourism, Leisure and Hospitality Management	4	4	100.00%	3	3	100.00%
Toxicology	40	17	42.50%	26	10	38.46%
Transplantation	3	2	66.67%	2	1	50.00%
Transportation	13	8	61.54%	6	5	83.33%
Urban Studies	6	3	50.00%	3	1	33.33%
Veterinary (miscellaneous)	16	3	18.75%	15	3	20.00%
Virology	55	37	67.27%	46	31	67.39%
Visual Arts and Performing Arts	1	1	100.00%	1	1	100.00%
Waste Management and Disposal	17	6	35.29%	11	4	36.36%
Water Science and Technology	47	28	59.57%	40	21	52.50%

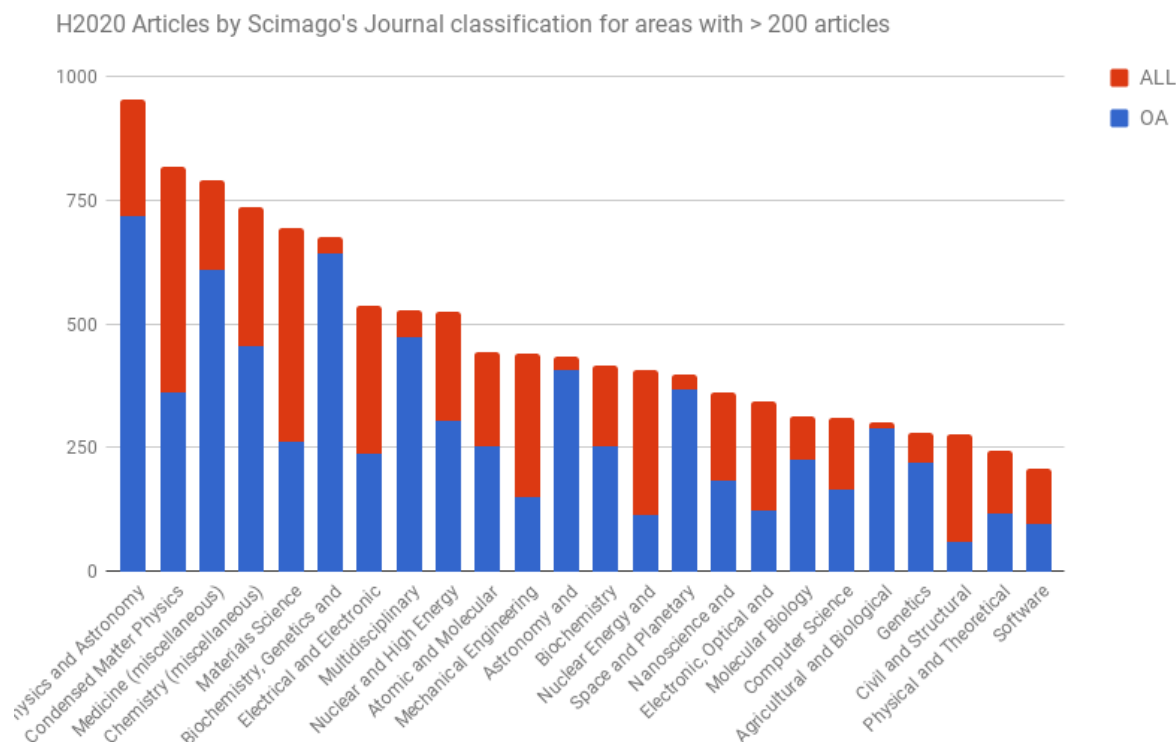


Figure 14. H2020 articles by Scimago's journal classification.

## Author statistics. Author networks.

Table 14. Statistics on authors of H2020 publications by scientific area

Scientific area	Number of Authors		
	Average	Min	Median
BBI	4.00	4	4
BBI.VC1.R1	5.00	5	5
BBI.VC2.R2	5.67	5	6
BBI.VC2.R4	3.67	3	4
BES	2.00	1	1
BG	6.67	1	3
BIOTEC	4.68	1	4
COMPET	7.34	1	5
CULT	6.60	3	5
DRS	7.51	2	6
DS	4.68	1	4
ECSEL	6.18	1	5
EE	3.92	1	3
EINFRA	4.56	1	3
EO	17.28	1	7

## Number of Authors

Scientific area	Average	Min	Median
ERC	8.77	1	4
EUB	5.27	1	4
EUJ	6.14	1	5
EUK	4.17	1	3
EURATOM	9.14	1	7
EURO	2.76	1	3
EeB	4.39	1	4
Europe	1.00	1	1
FCH	5.07	1	5
FCT	4.42	1	5
FETFLAGSHIP	10.05	1	5
FETHPC	5.21	1	4
FETOPEN	6.45	1	5
FETPROACT	4.67	1	4
FTIPilot	4.71	2	5
FoF	4.36	1	4
GALILEO	8.50	1	3
GARRI	2.40	1	2
GEANT	8.20	2	9
GERI	2.00	1	2
GV	4.10	1	3
H2020	18.50	1	5
HCO	6.27	1	5
Health	29.81	1	16
ICT	4.94	1	4
INFRADEV	5.77	1	4
INFRAIA	9.51	1	6
INFRASUPP	3.18	1	2
INNOSUP	3.20	1	4
INSO	5.22	1	4
INT	1.34	1	1
IRIMA	2.63	1	3
ISIB	7.06	1	4
ISSI	2.33	1	2
IT	4.75	1	5
JTI	2.75	1	3
LCE	5.29	1	5
MG	5.04	1	4
MSCA	11.43	1	4
NFRP	5.36	1	4

## Number of Authors

Scientific area	Average	Min	Median
NMBP	8.50	3	9
NMP	5.96	1	5
PHC	9.94	1	6
PROTEC	6.33	1	5
R10	7.00	3	7
REFLECTIVE	4.58	1	4
REV	2.00	2	2
RUR	2.00	2	2
S2R	2.00	2	2
SC1	13.13	3	12
SC5	7.17	1	5
SCC	4.43	2	4
SEAC	6.36	2	4
SEC	5.00	5	5
SECURITY	13.00	13	13
SFS	5.45	1	5
SIE	4.50	4	4
SMEInst	3.57	1	4
SPACE	13.15	1	6
SPIRE	4.95	1	4
Sesar	5.68	3	5
Space	6.00	3	6
WASTE	3.46	1	2
WATER	3.63	1	3
WIDESPREAD	4.22	1	3
YOUNG	3.70	2	2

Table 15. Statistics on authors of H2020 publications by funding scheme

Number of Authors			
Funding Scheme	Average	Min	Median
BBI-RIA	5.64	3	5
COFUND-EJP	9.14	1	7
COFUND-PCP	2	2	2
CS2-IA	3.33	2	4
CS2-RIA	1	1	1
CSA	11.63	1	4
CSA-LS	2.5	1	3
ECSEL-IA	7.94	2	7

## Number of Authors

Funding Scheme	Average	Min	Median
ECSEL-RIA	4.6	1	4
ERA-NET-Cofund	9	1	8
ERC	8.76	1	4
FCH2-IA	5.2	4	5
FCH2-RIA	5	1	5
IA	5.01	1	4
MSCA-COFUND-DP	5.75	2	7
MSCA-COFUND-FP	11.27	1	8
MSCA-IF-EF-CAR	6.64	1	4
MSCA-IF-EF-RI	6.72	1	4
MSCA-IF-EF-ST	6.57	1	5
MSCA-IF-GF	8.18	1	5
MSCA-ITN-EID	6.02	2	5
MSCA-ITN-EJD	3.98	1	3
MSCA-ITN-ETN	6.57	1	4
MSCA-RISE	22.89	1	4
RIA	6.3	1	4
SESAR-RIA	5.68	3	5
SGA-CSA	2.5	1	2
SGA-RIA	10.01	1	5
SME-1	4.33	1	4
SME-2	7.19	1	6
Shift2Rail-RIA	2	2	2
<b>Total for H2020</b>	<b>8.26</b>	<b>1</b>	<b>4</b>

In addition, through some simple network analysis we have identified some metrics on author collaborations during H2020 and whether these collaborations existed before. Table 16 shows the values of author collaborations (in pairs) before the beginning, and during the H2020 project. As author disambiguation is still a problem, the following numbers should

Column explanation in Table 16:

Author pairs during: number of author pairs that collaborated for an H2020 paper

Author pairs before: author pairs that have collaborated before any H2020 paper

Table 16. Author networks before, during, after H2020.

Author pairs			
Funding Scheme	Before	During	New pairs
BBI-RIA	52	209	157
COFUND-EJP	7589	36978	29389
COFUND-PCP	0	1	1
CS2-IA	6	7	1
CSA	6571	30344	23773
CSA-LS	0	6	6
ECSEL-IA	258	2134	1876
ECSEL-RIA	203	574	371
ERA-NET-Cofund	138	827	689
ERC	27714	106429	78715
FCH2-IA	3	46	43
FCH2-RIA	24	117	93
IA	2013	12412	10399
MSCA-COFUND-DP	8	67	59
MSCA-COFUND-FP	718	2504	1786
MSCA-IF-EF-CAR	135	481	346
MSCA-IF-EF-RI	1980	5418	3438
MSCA-IF-EF-ST	6596	27004	20408
MSCA-IF-GF	1420	3620	2200
MSCA-ITN-EID	82	896	814
MSCA-ITN-EJD	99	800	701
MSCA-ITN-ETN	3048	18886	15838
MSCA-RISE	4355	17024	12669
RIA	34828	182297	147469
SESTAR-RIA	69	192	123
SGA-CSA	1	36	35
SGA-RIA	1219	4592	3373
SME-1	23	84	61
SME-2	365	2808	2443
Shift2Rail-RIA		1	1
<b>Total</b>	<b>93932</b>	<b>437797</b>	<b>343865</b>