

WP H2020 Espace 2018 - 2020 budget summary

M€		Type of action	Budget by proposal	2018	2019	2020
H2020 calls except EGNSS				97	100	127
Earth observation				22	31	
SPACE-01-EO-2018-2019	Copernicus market uptake	IA	1-2	9	9	
SPACE-02-EO-2018	Copernicus evolution : Mission exploitation concepts	CSA	2-3	8		
SPACE-03-EO-2018	Copernicus evolution : preparing for the next generation of Copernicus Marine Service ocean models	RIA	5	5		
SPACE-04-EO-2019	Copernicus evolution : Research activities in support of cross-cutting applications between Copernicus services	RIA	2-3		8	
SPACE-05-EO-2019	Copernicus evolution : Research activities in support to a European operational monitoring system for fossil CO2 emissions	RIA	9		9	
SPACE-06-EO-2019	International Cooperation Copernicus - Designing EO downstream applications with international partners	RIA	1-2		5	
Space, business, entrepreneurship, outreach and education				4	2	
SPACE-07-BIZ-2018	Space hubs for Copernicus	CSA	1-2	2		
SPACE-08-BIZ-2018	Space outreach and education	CSA	1-2	2		
SPACE-09-BIZ-2019	Space hubs (support to start-ups)		1-2		2	
Space technologies, science and exploration				69	57	
SPACE-10-TEC-2018-19	Technologies for European non-dependence	RIA	2-5	12	12	

SPACE-11-TEC-2018	Generic space Technologies	RIA	2-3	10		
SPACE-12-TEC-2018	SRC - Space robotics technologies	RIA	a) to c) 3-4 d) to e)2-3	18		
SPACE-13-TEC-2019	SRC - In-Space electrical propulsion	RIA	2-3		10	
SPACE-14-TEC-2018	Earth observation technologies	RIA	2-3	9		
SPACE-15-TEC-2019	Satellite communication technologies	RIA	2-3		10	
SPACE-16-TEC-2018	Acces to space	RAI	2-3	10		
SPACE-17-TEC-2019	Acces to space	RIA	2-3		10	
SPACE-18-TEC-2019	IOD/IOV mission, design, integration and implementation	IA	5-7		15	
SPACE-19-TEC-2018	Exploring mega-constellation concepts	CSA	2-3	2		
SPACE-20-SCI-2018	Scientific instrumentations and technos enabling space science and exploration	RIA	2-3	8		
Secure and safe space environment				2	10	
SPACE-21-SEC-2018	Exploring concepts for space traffic management	CSA	1-2	2		
SPACE-22-SEC-2019	Space weather		2-3		10	
EGNSS market uptake				0	20	20
SPACE-EGNSS-1-2019	EGNSS applications fostering green, safe and smart mobility	IA	1-3		10	
SPACE-EGNSS-2-2019	EGNSS applications fostering digitisation	IA	1-3		4	
SPACE-EGNSS-3-2019	EGNSS applications fostering societal resilience and protecting the environment	IA	1-3		4	
SPACE-EGNSS-4-2019	Awareness Raising and capacity building	CSA	0,5 - 1		2	
Other actions				79,3	77,8	74,8
1. Prize Low cost Space launch						5
2. Galileo evolution, mission and service related to R&D activities					2,6	1,8
3. EGNOS mission and service related to R&D activities					0,4	0,2
4. GNSS evolution infrastructures related R&D activities				36	31	10

5. SST			1,8	1,9	1,9
6. Improving the performances of SST at European level			15	20	30
7. Programmatic Support Actions for the strategic research clusters				6	
8. In-orbit demonstration/validation - launch services			20	10	20
9. Cooperation among NCP's			0,6		
10. Studies & Communications			1,5	1	1
11. H2020 project monitoring			1	1	1
12. H2020 project monitoring and audits (EGNSS)				0,5	0,5
Fast track to innovation			3,4	3,4	3,4
TOTAL			176,3	197,8	221,8