

**Appels à propositions dans le cadre du programme européen pour la recherche et l'innovation
« HORIZON 2020 »**

PRIMAUTE INDUSTRIELLE

Nanotechnologies, Matériaux, Biotechnologies et Procédés de fabrication et de production avancés

Titre	Type	Budget	Date d'ouverture	Date limite
OPEN INNOVATION TEST BEDS				
DT-NMBP-03-2019: Open Innovation Test Beds for nano-enabled surfaces and membranes	IA	50 M€	10/16/2018	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
DT-NMBP-04-2020: Open Innovation Test Beds for bio-based nano-materials and solutions	IA	A définir		
DT-NMBP-05-2020: Open Innovation Test Beds for functional materials for building envelopes	IA	A définir		
DT-NMBP-06-2020: Open Innovation Test Beds for nano-pharmaceuticals production	IA	A définir		
Caractérisation des matériaux et modélisation informatique				
DT-NMBP-08-2019: Real-time nano-characterisation technologies	RIA	37,8 M€	10/16/2018	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
DT-NMBP-10-2019: Adopting materials modelling to challenges in manufacturing processes	RIA			
DT-NMBP-12-2019: Sustainable Nano-Fabrication	CSA	4 M€	10/16/2018	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
DT-NMBP-11-2020: Open Innovation Test Beds for Materials Modelling	IA	A définir		
Gouvernance, évaluation du risque basée sur la science et aspects réglementaires				
NMBP-15-2019: Safe by design, from science to regulation: metrics and main sectors	RIA	27,8 M€	16-Oct-18	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
NMBP-16-2020: Safe by design, from science to regulation: behaviour of multi-component nanomaterials	RIA	A définir		
NMBP-17-2020: Regulatory science for medical technology products	RIA	A définir		
NMBP-34-2019 : In support of documentary standards (CSA)	CSA	3 M€	16-Oct-18	9/3/2019

FACTORIES OF THE FUTURE (FOF)				
DT-FOF-05-2019: Open Innovation for collaborative production engineering	IA			
DT-FOF-06-2019: Refurbishment and re-manufacturing of large industrial equipment	IA	106,6 M€	16-Oct-18	21-Feb-19
DT-FOF-08-2019: Pilot lines for modular factories	IA			
DT-FOF-12-2019: Handling systems for flexible materials	RIA			
DT-NMBP-18-2019: Materials, manufacturing processes and devices for organic and large area electronics	IA	20 M€	16-Oct-18	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
DT-NMBP-19-2019: Advanced materials for additive manufacturing	IA	20,4 M€	16-Oct-18	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
DT-FOF-07-2020: Reliable and accurate assembly of micro parts	RIA	A définir		
DT-FOF-09-2020: Holistic energy-efficient factory management	IA	A définir		
DT-FOF-10-2020: Pilot lines for large-part high-precision manufacturing	IA	A définir		
DT-FOF-11-2020: Quality control in smart manufacturing	IA	A définir		

Biotechnologies				
BIOTEC-02-2019: Boosting the efficiency of photosynthesis	RIA	31 M€	16-Oct-18	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
CE-BIOTEC-05-2019: Microorganism communities for plastics bio-degradation	RIA	10 M€	16-Oct-18	24-Apr-19
BIOTEC-06-2020: Reprogrammed microorganisms for biological sensors	IA	A définir		
BIOTEC-07-2020: Multi-omics for the optimisation of genotype-phenotype associations	RIA	A définir		
Innovations technologiques médicales				
NMBP-21-2020: Custom-made biological scaffolds for specific tissue regeneration and repair	RIA	A définir		
DT-NMBP-23-2020: Next generation organ-on-chip	RIA	A définir		
SUSTAINABLE PROCESS INDUSTRY (SPIRE)				
CE-SPIRE-04-2019: Efficient integrated downstream processes	IA	65,8 M€	16-Oct-18	21-Feb-19
CE-SPIRE-05-2019: Adaptation to variable feedstock through retrofitting	IA			
DT-SPIRE-06-2019: Digital technologies for improved performance in cognitive production plants	IA	32,9 M€	16-Oct-18	21-Feb-19
CE-SPIRE-01-2020: Industrial symbiosis	IA	A définir		
CE-SPIRE-07-2020: Recovery of industrial water, thermal energy and substances contained therein	IA	A définir		
CE-SPIRE-08-2020: Improved Industrial Processing using novel high-temperature resistant materials	RIA	A définir		
CE-SPIRE-09-2020: Making the most of mineral waste, by-products and recycled material as feed for high volume production	IA	A définir		
Catalyser l'économie circulaire				
CE-NMBP-25-2019: Photocatalytic synthesis	RIA	18,46 M€	16-Oct-18	22/01/2019 (1ère étape) puis 03/09/2019 (2ème étape)
Energie propre à travers les matériaux innovants				
LC-BAT-1-2019* Strongly improved, highly performant and safe all solid state batteries for electric vehicles	LC	A définir		24-Jan-19 4/25/2019
LC-NMBP-29-2019: Materials for non-battery based energy storage	RIA	65,1 M€	16-Oct-18	21-Feb-19
LC-NMBP-32-2019: Smart materials, systems and structures for energy harvesting	RIA			
LC-NMBP-28-2020: Advanced materials for innovative multilayers for durable photovoltaics	IA	A définir		
LC-NMBP-31-2020: Materials for off shore energy	IA	A définir		
Héritage culturel				
ENERGY-EFFICIENT BUILDINGS (EEB)				
LC-EEB-01-2019: Integration of energy smart materials in non-residential buildings	IA	A définir		
LC-EEB-03-2019: New developments in plus energy houses	IA	53,5 M€	16-Oct-18	21-Feb-19
LC-EEB-05-2019-20: Integrated storage systems for residential buildings	IA			
LC-EEB-04-2020: Industrialisation of building envelope for the renovation market	IA	A définir		

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Espace

Titre	Type	Budget	Date d'ouverture	Date limite
Observation de la terre				
DT-SPACE-01-EO-2018-2020: Copernicus market uptake	IA	9 M€	16-Oct-18	12-Mar-19
LC-SPACE-04-EO-2019-2020: Copernicus evolution – Research activities in support of cross-cutting applications between Copernicus services	RIA	8 M€	16-Oct-18	12-Mar-19
LC-SPACE-05-EO-2019: Copernicus evolution – Research activities in support to a European operational monitoring system for fossil CO2 emissions	RIA	9 M€	16-Oct-18	12-Mar-19
DT-SPACE-06-EO-2019: International Cooperation Copernicus – Designing EO downstream applications with international partners	RIA	5 M€	16-Oct-18	12-Mar-19
Commerce spatial, entrepreneuriat, vulgarisation et éducation				
DT-SPACE-09-BIZ-2019: Space hubs (support to start-ups)	CSA	2 M€	16-Oct-18	12-Mar-19
Technologies spatiales, science et exploration				
SPACE-10-TEC-2018-2020: Technologies for European non-dependence and competitiveness	RIA	13 M€	16-Oct-18	12-Mar-19
SPACE-13-TEC-2019: SRC – In-Space electrical propulsion and station keeping	RIA	10 M€	16-Oct-18	12-Mar-19
LC-SPACE-14-TEC-2018-2019: Earth observation technologies	RIA	8 M€	16-Oct-18	12-Mar-19
SPACE-17-TEC-2019: Access to space	RIA	9 M€	16-Oct-18	12-Mar-19
SPACE-18-TEC-2019-2020: In-orbit validation/demonstration – Mission design, integration and implementation	RIA	20 M€	16-Oct-18	12-Mar-19
Sécurité et environnement spatial sûr				
SU-SPACE-22-SEC-2019: Space Weather	RIA	9 M€	16-Oct-18	12-Mar-19
LC-SPACE-EGNSS-1-2019-2020: EGNSS applications fostering green, safe and smart mobility	IA	10 M€	16-Oct-18	5-Mar-19
DT-SPACE-EGNSS-2-2019-2020: EGNSS applications fostering digitisation	IA	4 M€	16-Oct-18	5-Mar-19
SU-SPACE-EGNSS-3-2019-2020: EGNSS applications fostering societal resilience and protecting the environment	IA	4 M€	16-Oct-18	5-Mar-19
SPACE-EGNSS-4-2019: Awareness Raising and capacity building	CSA	2 M€	16-Oct-18	5-Mar-19

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TIC

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Technologies pour numériser l'industrie européenne				
Infrastructures de données européennes : HPC, Big Data et technologies cloud				
ICT-11-2018-2019: HPC and Big Data enabled Large-scale Testbeds and Applications	IA	40 M€	26-Jul-18	14-Nov-18
ICT-14-2019: Co-designing Extreme Scale Demonstrators (EsD)	RIA	80 M€	26-Jul-18	14-Nov-18
5G				
ICT-19-2019: Advanced 5G validation trials across multiple vertical industries	RIA	90 M€	26-Jul-18	14-Nov-18
	CSA	2 M€	26-Jul-18	14-Nov-18
ICT-23-2019: EU-Taiwan 5G collaboration	RIA	4 M€	5-Sep-18	15-Jan-19
Next Generation Internet (NGI)				
ICT-25-2018-2020: Interactive Technologies	RIA	20 M€	26-Jul-18	14-Nov-18
Activités transversales				
Soutien aux Hubs				
DT-ICT-01-2019: Smart Anything Everywhere	IA	48 M€	16-Oct-18	2-Apr-19
	CSA	1 M€	16-Oct-18	2-Apr-19
DT-ICT-03-2020: I4MS (phase 4) - uptake of digital game changers and digital manufacturing platforms	A définir			
DT-ICT-04-2020: Photonics Innovation Hubs	A définir			
DT-ICT-05-2020: Big Data Innovation Hubs	A définir			

Plateformes et pilotes				
DT-ICT-07-2018-2019: Digital Manufacturing Platforms for Connected Smart Factories	IA	48 M€	31-Oct-17	17-Apr-18
	IA	45 M€	16-Oct-18	2-Apr-19
	CSA	1 M€	16-Oct-18	2-Apr-19
DT-ICT-08-2019: Agricultural digital integration platforms	IA	30 M€	26-Jul-18	14-Nov-18
DT-ICT-10-2018-19: Interoperable and smart homes and grids	IA	30 M€	26-Jul-18	14-Nov-18
DT-ICT-11-2019: Big data solutions for energy	IA	30 M€	16-Oct-18	2-Apr-19
DT-ICT-13-2019: Digital Platforms/Pilots Horizontal Activities	CSA	4 M€	26-Jul-18	14-Nov-18
DT-ICT-09-2020: Digital service platforms for rural economies	A définir			
DT-ICT-12-2020: The smart hospital of the future	A définir			
Cybersécurité				
SU-ICT-01-2018: Dynamic countering of cyber-attacks	IA	40 M€	15-Mar-18	28-Aug-18
SU-ICT-02-2020: Building blocks for resilience in evolving ICT systems	RIA	47 M€	25-Jul-19	19-Nov-19
SU-ICT-04-2019: Quantum Key Distribution testbed	IA	15 M€	15-Mar-18	28-Aug-18
SU-ICT-03-2020: Advanced cybersecurity and digital privacy technologies	A définir			
Appel conjoint UE-Japon				
EUJ-01-2018: Advanced technologies (Security/Cloud/IoT/BigData) for a hyper-connected society in the context of Smart City	RIA	3 M€	31-Oct-17	31-Jan-18
EUJ-02-2018: 5G and beyond	RIA	3 M€	31-Oct-17	31-Jan-18
Appel conjoint UE-Corée				
EUK-01-2018: Cloud, IoT and AI technologies	RIA	2,2 M€	31-Oct-17	31-Jan-18
EUK-02-2018: 5G	RIA	4 M€	31-Oct-17	31-Jan-18
Autres actions				
TactilePrize-01-2017: Inducement prize: Tactile Displays for the Visually Impaired	Prix	3 M€	23-May-17	27-Nov-18
OnlineSecurityPrize-01-2017: Inducement prize: Online security - Seamless personal authentication	Prix	4 M€	28-Sep-17	27-Sep-18
PowerWaterPrize-01-2017: Inducement prize: Zero Power Water Infrastructure Monitoring	Prix	2 M€	19-Dec-17	11-Sep-18