

**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		



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			

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				
ICT-01-2019: Computing technologies and engineering methods for cyber-physical systems of systems	RIA	2 M€	16-Oct-18	28-Mar-19
ICT-03-2018-2019: Photonics Manufacturing Pilot Lines for Photonic Components and Devices	IA	30 M€	16-Oct-18	28-Mar-19
ICT-05-2019: Application driven Photonics components	RIA	1,5 M€	16-Oct-18	28-Mar-19
ICT-06-2019: Unconventional Nanoelectronics	RIA	30 M€	16-Oct-18	28-Mar-19
ICT-08-2019: Security and resilience for collaborative manufacturing environments	RIA	11 M€	16-Oct-18	28-Mar-19
ICT-09-2019-2020: Robotics in Application Areas	RIA	20 M€	16-Oct-18	28-Mar-19
ICT-10-2019-2020: Robotics Core Technology	RIA	42 M€	16-Oct-18	28-Mar-19
Infrastructures de données européennes : HPC, Big Data et technologies cloud				
ICT-13-2018-2019 : Supporting the emergence of data markets and the data economy	IA	48 M€	16-Oct-18	28-Mar-19
ICT-15-2019-2020 : Cloud Computing	RIA	1,5 M€	16-Oct-18	28-Mar-19
5G				
ICT-20-2019-2020: 5G Long Term Evolution	RIA	44 M€	16-Oct-18	28-Mar-19
ICT-23-2019: EU-Taiwan 5G collaboration	RIA	4 M€	5-Sep-18	15-Jan-19
Next Generation Internet (NGI)				
ICT-24-2018-2019 : Next Generation Internet - An Open Internet Initiative	RIA	21,5 M€	16-Oct-18	28-Mar-19
ICT-30-2019-2020: An empowering, inclusive Next Generation Internet	IA	7 M€	16-Oct-18	28-Mar-19
ICT-31-2018-2019: EU-US collaboration on NGI	RIA	3,5 M€	16-Oct-18	28-Mar-19
ICT-33-2019: Startup Europe for Growth and Innovation Radar	IA	10 M€	16-Oct-18	28-Mar-19
ICT-34-2018-2019: Pre-Commercial Procurement open	PCP	6 M€	16-Oct-18	28-Mar-19
Activités transversales				
Soutien aux Hubs				
	IA	48 M€	16-Oct-18	2-Apr-19

DT-ICT-01-2019: Smart Anything Everywhere	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	45 M€	16-Oct-18	2-Apr-19
	CSA	1 M€	16-Oct-18	2-Apr-19
DT-ICT-11-2019: Big data solutions for energy	IA	30 M€	16-Oct-18	2-Apr-19
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-02-2020: Building blocks for resilience in evolving ICT systems	RIA	47 M€	25-Jul-19	19-Nov-19
SU-ICT-03-2020: Advanced cybersecurity and digital privacy technologies	A définir			
Appel conjoint UE-Japon				
Appel conjoint UE-Corée				
Autres actions				