

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

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DÉFIS SOCIETAUX

Santé, bien-être, vieillissement

Titre	Type	Budget	Date d'ouverture	Date limite
Médecine personnalisée				
Industrie du soin et de la santé innovante				
SC1-BHC-07-2019: Regenerative medicine: from new insights to new applications	RIA	50 M€	26-juil-18	16-avr-19
SC1-BHC-10-2019: Innovation Procurement: Next generation sequencing (NGS) for routine diagnosis	PCP	40 M€	26-juil-18	16-avr-19
Maladies infectieuses et amélioration de la santé mondiale				
SC1-BHC-13-2019: Mining big data for early detection of infectious disease threats driven by climate change and other factors	RIA	30 M€	26-juil-18	16-avr-19
Systèmes de santé et de soin innovants - intégration du soin				
Décoder le rôle de l'environnement, dont le changement climatique, sur la santé et le bien-être				
SC1-BHC-28-2019: The Human Exposome Project: a toolbox for assessing and addressing the impact of environment on health	RIA	50 M€	26-juil-18	16-avr-19
Transformation numérique dans la santé et le soin				
SC1-DTH-01-2019: Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment	RIA	35 M€	16-oct-18	24-avr-19
SC1-DTH-05-2019: Large scale implementation of digital innovation for health and care in an ageing society	PPI	10 M€	16-oct-18	24-avr-19
SC1-DTH-09-2019: Scaling up the univocal Identification of Medicinal Products	IA	19 M€	16-oct-18	24-avr-19
SC1-DTH-11-2019: Large Scale pilots of personalised & outcome based integrated care	IA	20 M€	16-oct-18	24-avr-19
SC1-HCC-02-2019: Support for the large scale uptake of open service platforms in the Active and Healthy Ageing domain	CSA	1,5 M€	16-oct-18	24-avr-19

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« HORIZON 2020 »**

DÉFIS SOCIÉTAUX

Sécurité alimentaire, bioéconomie

Titre	Type	Budget	Date d'ouverture	Date limite
	Renaissance rurale			
	Sécurité alimentaire durable			
	Croissance bleue			

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« HORIZON 2020 »**

DÉFIS SOCIÉTAUX

Energies sûres, propres et efficaces

Titre	Type	Budget	Date d'ouverture	Date limite
Efficacité énergétique				
LC-SC3-EE-1-2018-2019-2020: Decarbonisation of the EU building stock: innovative approaches and affordable solutions changing the market for buildings renovation	IA	12 M€	12-mars-19	03-sept-19
LC-SC3-EE-2-2018-2019: Integrated home renovation services	CSA	10 M€	12-mars-19	03-sept-19
LC-SC3-EE-3-2019-2020: Stimulating demand for sustainable energy skills in the construction sector	CSA	6 M€	12-mars-19	03-sept-19
LC-SC3-EE-4-2019-2020: Upgrading smartness of existing buildings through innovations for legacy equipment	IA	10 M€	12-mars-19	03-sept-19
LC-SC3-EE-5-2018-2019-2020: Next-generation of Energy Performance Assessment and Certification	IA	10 M€	12-mars-19	03-sept-19
LC-SC3-EE-6-2018-2019-2020: Business case for industrial waste heat/cold recovery	IA	4 M€	12-mars-19	03-sept-19
LC-SC3-EE-8-2018-2019: Capacity building programmes to support implementation of energy audits	CSA	5 M€	12-mars-19	03-sept-19
LC-SC3-EE-9-2018-2019: Innovative financing for energy efficiency investments	CSA	4 M€	12-mars-19	03-sept-19
LC-SC3-EE-10-2018-2019-2020: Mainstreaming energy efficiency finance	CSA	6 M€	12-mars-19	03-sept-19
LC-SC3-EE-11-2018-2019-2020: Aggregation - Project Development Assistance	CSA	6 M€	12-mars-19	03-sept-19
LC-SC3-EE-13-2018-2019-2020: Enabling next-generation of smart energy services valorising energy efficiency and flexibility at demand-side as energy resource	IA	8 M€	12-mars-19	03-sept-19
LC-SC3-EE-14-2018-2019-2020: Socio-economic research conceptualising and modelling energy efficiency and energy demand	RIA	4 M€	12-mars-19	03-sept-19
LC-SC3-EE-18-2019: Bioclimatic approaches for improving energy performance in buildings in Africa and Europe	CSA	1 M€	12-mars-19	03-sept-19
Leadership global dans les renouvelables				
LC-SC3-RES-16-2019: Development of solutions based on renewable sources that provide flexibility to the energy system	RIA	15 M€	07-mai-19	27-août-19
LC-SC3-RES-23-2019: Development of next generation biofuel and alternative renewable fuel technologies for aviation and shipping	RIA	20 M€	07-mai-19	27-août-19
LC-SC3-RES-29-2019: Converting Sunlight to storable chemical energy	RIA	6 M€	07-mai-19	27-août-19
LC-SC3-RES-7-2019: Solar Energy in Industrial Processes	RIA	10 M€	07-mai-19	27-août-19

LC-SC3-RES-3-2020: International Cooperation with USA on alternative renewable fuels for energy and transport	A définir			
LC-SC3-RES-9-2020: Next generation of thin-film photovoltaic technologies				
LC-SC3-RES-10-2020: Pre-Commercial Procurement for a 100% Renewable Energy Supply				
LC-SC3-RES-18-2020: Demonstration of the solutions based on renewable sources that provide flexibility to the energy system				
LC-SC3-RES-19-2020: Demonstration of floating wind farms				
LC-SC3-RES-20-2020: Efficient combination of concentrated solar power (CSP) and desalination (with particular focus on the Gulf Cooperation Council (GCC) region) 68 Renewable Fuels for transport)				
LC-SC3-RES-25-2020: International cooperation for Research and Innovation on advanced biofuels and alternative renewable fuels				
LC-SC3-RES-26-2020: Development of next generation biofuel and alternative renewable fuel technologies from CO2 and renewable energy (Power and Energy to Fuels)				
LC-SC3-RES-27-2020: Demonstration of advanced biofuels production from aquatic biomass				
Energie intelligente et propre pour les consommateurs				
LC-SC3-EC-1-2018-2019-2020: The role of consumers in changing the market through informed decision and collective actions	CSA	7,5 M€	12-mars-19	03-sept-19
LC-SC3-EC-2-2018-2019-2020: Mitigating household energy poverty	CSA	7,5 M€	12-mars-19	03-sept-19
LC-SC3-EC-3-2020 - Consumer engagement and demand response	A définir			
Systèmes énergétiques intelligents centrés sur les citoyens				
LC-SC3-ES-9-2019: ERA-NET Co-Fund Enhanced cooperation in Digitalisation of Energy Systems and Networks	ERA-NET-Cofund		14-nov-18	27-août-19
Communautés et villes intelligentes				
Permettre des émissions de CO2 proches de zéro des centrales électriques à énergies fossiles et d'industries à fortes émissions				
LC-SC3-NZE-4-2019: Integrated solutions for flexible operation of fossil fuel power plants through power-to-X-to-power and/or energy storage	IA	20 M€	07-mai-19	27-août-19
LC-SC3-NZE-5-2019-2020: Low carbon industrial production using CCUS	IA	33 M€	07-mai-19	27-août-19
LC-SC3-NZE-6-2020: Geological Storage Pilots	Joint Actions	A définir		
Actions communes				
LC-SC3-JA-3-2019: European Pre-Commercial Procurement Programme for Wave Energy Research & Development	Pre-commercial Procurement	20 M€	14-nov-18	27-août-19
LC-SC3-JA-2-2018-2019: LC-SC3-JA-2-2018-2019	CSA	1 M€	14-nov-18	27-août-19
LC-SC3-JA-5-2019: Joint Programming with EU and African partners for a R&I actions in the area of renewable energy	COFUND	15 M€	14-nov-18	27-août-19

Problématiques transversales				
LC-SC3-CC-1-2018-2019-2020: Social Sciences and Humanities (SSH) aspects of the Clean-Energy Transition	RIA	10 M€	07-mai-19	27-août-19
LC-SC3-CC-3-2019: Support for the opening of low-carbon energy research databases in Europe	CSA	2 M€	14-nov-18	27-août-19



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« HORIZON 2020 »**

DÉFIS SOCIÉTAUX

Transports intelligents, verts et intégrés

Titre	Type	Budget	Date d'ouverture	Date limite
Construire un futur bas carbone et résilient au changement climatique : transport bas carbone et durable				
LC-MG-1-6-2019: Aviation operations impact on climate change (InCo flagship)	RIA	10 M€	04-déc-18	24-avr-19
LC-MG-1-7-2019: Future propulsion and integration: towards a hybrid/electric aircraft (InCo flagship)	RIA	15 M€	04-déc-18	24-avr-19
LC-MG-1-11-2019: Structuring R&I towards zero emission waterborne transport	CSA	1 M€	04-déc-18	24-avr-19

Systèmes de transports sûrs, résilients et intégrés	
MG-2-10-2020: Towards full automated infrastructure construction and maintenance	A définir
MG-2-11-2020: Jointly implementing innovation in the areas of safety, connectivity and infrastructure (ERA-net Co-fund)	
Leadership global et compétitivité	
MG-3-04-2020: Enhanced avionics, operations and door-to-door user-experience through higher connectivity and automation	A définir
MG-3-05-2020: Towards a high-speed global air transportation demonstration	
MG-3-06-2020: Next Generation Multifunctional and Intelligent Aerostructures – from manufacturing to maintenance and recycling	

MG-3-07-2020: Improved Production Processes in Ship building				
Responsabilité vis-à-vis des citoyens				
MG-4-4-2018-2019: Support for dissemination events in the field of Transport Research	CSA	0,7 M€	04-déc-18	24-avr-19
MG-4-5-2019: An inclusive digitally interconnected transport system meeting citizens' needs	RIA	7 M€	04-déc-18	24-avr-19
MG-4-6-2019: Supporting Joint Actions on sustainable urban accessibility and connectivity	ERA-NET Cofund	6 M€	04-déc-18	24-avr-19
MG-4-07-2020: Digitisation of the transport system: data sharing, analytics	A définir			
MG-4-08-2020: Advanced methods and tools in support of transport/mobility researchers, planners and policy makers				
Croissance bleue				
MG-BG-02-2019: Ship emission control scenarios, marine environmental impact and mitigation	RIA	8 M€	04-déc-18	24-avr-19
MG-BG-03-2020: Under water noise mitigation and environmental impact	A définir			
Numériser et transformer l'industrie et les services européens : transport routier automatisé				
DT-ART-03-2019: Human centred design for the new driver role in highly automated vehicles	RIA	8 M€	04-déc-18	24-avr-19
DT-ART-04-2019: Developing and testing shared, connected and cooperative automated vehicle fleets in urban areas for the mobility of all	IA	30 M€	04-déc-18	24-avr-19
DT-ART-05-2020 - Efficient and safe connected and automated heavy-duty vehicles in real logistics operations	A définir			
DT-ART-06-2020 - Large-scale, cross-border demonstration of highly automated driving functions for passenger cars	A définir			
Construire un futur bas carbone et résilient au changement climatique : véhicules verts				
LC-GV-03-2019: User centric charging infrastructure	IA	35 M€	04-déc-18	24-avr-19
LC-GV-04-2019: Low-emissions propulsion for long-distance trucks and coaches	IA	25 M€	04-déc-18	24-avr-19
LC-GV-05-2019: InCo flagship on "Urban mobility and sustainable electrification in large urban areas in developing and emerging economies"	IA	18 M€	04-déc-18	24-avr-19
LC-GV-06-2020 - Next generation and realisation of battery packs for BEV and HEV	A définir			
LC-GV-07-2020 - Advanced light materials and their production processes for automotive applications				
LC-GV-08-2020 - Reducing the environmental impact of hybrid light duty vehicles				
LC-GV-09-2020 - Next generation electrified vehicles for urban use				
Autres actions				
Prix Horizon pour le moteur du futur le plus propre	Prix	3,5 M€	20-avr-16	20-août-19

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DÉFIS SOCIÉTAUX

Action pour le climat, l'environnement, l'efficacité des ressources et les matières premières

Titre	Type	Budget	Date d'ouverture	Date limite
Décarbonisation				
LC-CLA-09-2020: Achieving long-term climate goals and sustainable development (deep decarbonisation pathways and sustainable development at national and global level; the role of lifestyle change and consumption patterns on climate change mitigation)	A définir			
LC-CLA-10-2020: Innovative nature-based solutions for carbon neutral cities and improved air quality				
Adaptation, impact, services climatiques				
LC-CLA-11-2020: Advancing climate services (seasonal to sub-seasonal [S2D] and seasonal to decadal [S2D] forecasting; climate services prototypes)	A définir			
LC-CLA-12-2020: Climate resilience of coastal cities				
LC-CLA-13-2020: Pre-commercial procurement of solutions for climate change resilience				

Inter-relations entre le changement climatique, la biodiversité et les services des écosystèmes	
LC-CLA-14-2020: Understanding water-energy-food nexus and streamlining water-related policies	A définir
LC-CLA-15-2020: Nature based solutions for forest fires risk reduction and multi-hazard risk management in the E.U.	
La Cryosphère	
LC-CLA-16-2020: Polar climate: understanding the polar processes in a global context	A définir
Manque de connaissance	
LC-CLA-17-2020: Developing the next generation of Earth System Models	A définir
Observation de la terre	
LC-CLA-18-2020: GEOSS observations supporting the EU in its international commitment in the domain of climate change	A définir
LC-CLA-19-2020: Supporting the GEOSS Cold Regions Initiative	
Connecter les gains économiques et environnementaux - l'économie circulaire	
CE-SC5-22-2020: Improving the recovery and recycling of materials from composite and multi-layer products	A définir
CE-SC5-23-2020: Understanding the transition to circular economy and its implications	

Matières premières	
CE-SC5-07-2020: Raw materials innovation for the circular economy	A définir
CE-SC5-08-2020: Raw materials policy support actions for the circular economy: expert network on Critical Raw Materials	
Villes innovantes pour la durabilité et la résilience	



SC5-25-2020: Strengthening EU-China cooperation on sustainable urbanisation: enhanced natural treatment solutions for water security and ecological quality of water in cities	A définir			
SC5-21-2020: ERA-NET Cofund action(s) for climate action, environment, resource efficiency and raw materials	A définir			
Protéger et accroître la valeur de nos atouts naturels et culturels : observation de la Terre				
SC5-16-2019: Development of commercial activities and services through the use of GEOSS and Copernicus data	IA	15 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
	CSA	1 M€	14/11/2018	19/02/2019
Protéger et accroître la valeur de nos atouts naturels et culturels : solutions fondées sur la nature, réduction des risques de catastrophes et évaluation du capital naturel				
Protéger et accroître la valeur de nos atouts naturels et culturels : Patrimoine vivant				
SC5-20-2019: Transforming historic urban areas and/or cultural landscapes into hubs of entrepreneurship and social and cultural integration	IA	25 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
SC5-21-2019-2020: ERA-NET Cofund action(s) for climate action, environment, resource efficiency and raw materials	ERA-NET Cofund	10 M€	14/11/2018	19/02/2019

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« HORIZON 2020 »**

DÉFIS SOCIÉTAUX

L'Europe dans un monde qui change - Sociétés inclusives, innovantes et réflexives

Titre	Type	Budget	Date d'ouverture	Date limite
Migration				
MIGRATION-04-2020: Inclusive and innovative practices for the integration of migrants in urban areas	A définir (budget : 40 M€)			
MIGRATION-06-2018-2020-continued: Mapping and overcoming integration challenges for migrant children				
MIGRATION-09-2020: Narratives on migration and its impact: past and present				
MIGRATION-10-2020: Innovative solutions and evidence-based recommendations on migration				
Transformations socioéconomiques et culturelles dans le contexte de la quatrième révolution industrielle				
TRANSFORMATIONS-04-2019-2020-continued - Innovative approaches to urban and regional development through cultural tourism	A définir (budget : 30 M€)			
TRANSFORMATIONS-10-2020 - Evolving European cultural symbols and identities				
TRANSFORMATIONS-15-2020 - ERA-Net CO-FUND	A définir (budget : 10 M€)			
Gouvernance pour le futur				
SU-GOVERNANCE-07-2020: The Common Foreign and Security Policy and the expanding scope of the EU's external engagement	Indicatif	A définir (budget : 45 M€)		
SU-GOVERNANCE-09-2020: Addressing radicalisation through social inclusion	Indicatif			
GOVERNANCE-15-2020 - International Dimension of Open Innovation	Indicatif			
Autres actions				
The European Capital of Innovation Award (iCapital)	Prix	1,5 M€	20-févr-19	06-juin-19
		1,5 M€	Q1 2020	mi-2020

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« HORIZON 2020 »**

DÉFIS SOCIÉTAUX

Sociétés sûres

Titre	Type	Budget	Date d'ouverture	Date limite
Protéger les infrastructures en Europe et les personnes dans les smart cities européennes				
SU-INFRA01-2018-2019-2020: Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe	IA	22 M€	14-mars-19	22-août-19
SU-INFRA02-2019: Security for Smart Cities and "soft" targets in Smart Cities	IA	16 M€	14-mars-19	22-août-19
Désastre - Des sociétés résilientes				
SU-DRS01-2018-2019-2020: Human factors, and social, societal, and organisational aspects for disaster-resilient societies	RIA	5 M€	15-mars-19	22-août-19
SU-DRS02-2018-2019-2020: Technologies for first responders	RIA	21 M€	15-mars-19	22-août-19
SU-DRS03-2018-2019-2020: Pre-normative research and demonstration for disaster-resilient societies	IA	6 M€	15-mars-19	22-août-19
SU-DRS04-2019-2020: Chemical, biological, radiological and nuclear (CBRN) cluster	RIA	10,5 M€	15-mars-19	22-août-19
SU-DRS05-2019: Methodical demonstration of novel concepts for the management of pandemic crises	IA	10 M€	15-mars-19	22-août-19
Lutte contre le terrorisme et le crime				
SU-FCT01-2018-2019-2020: Human factors, and social, societal, and organisational aspects to solve issues in fighting against crime and terrorism	RIA	5 M€	15-mars-19	22-août-19
SU-FCT02-2018-2019-2020: Technologies to enhance the fight against crime and terrorism	RIA	21 M€	15-mars-19	22-août-19
SU-FCT03-2018-2019-2020: Information and data stream management to fight against (cyber)crime and terrorism	IA	8 M€	15-mars-19	22-août-19
SU-FCT04-2020: Explosives: detection, intelligence, forensics	A définir			

Sécurité extérieure et aux frontières				
SU-BES01-2018-2019-2020: Human factors, and social, societal, and organisational aspects of border and external security	RIA	5 M€	15-mars-19	22-août-19
SU-BES02-2018-2019-2020: Technologies to enhance border and external security	RIA	21 M€	15-mars-19	22-août-19
SU-BES03-EBCGA-2018-2019-2020: Demonstration of applied solutions to enhance border and external security	IA	10 M€	15-mars-19	22-août-19
Problématiques générales				
SU-GM01-2018-2019-2020: Pan-European networks of practitioners and other actors in the field of security	CSA	10,5 M€	15-mars-19	22-août-19
SU-GM02-2018-2020: Strategic pre-commercial procurements of innovative, advanced systems to support security	COFUND	A définir		
SU-GM03-2018-2019-2020: Pre-commercial procurements of innovative solutions to enhance security	COFUND	7 M€	15-mars-19	22-août-19
Sécurité numérique				
SU-DS03-2019-2020: Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises	IA	18 M€	15-mars-19	22-août-19
		10,8 M€	15-mars-20	27-août-20
SU-DS04-2018-2020: Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks	IA	20 M€	15-mars-20	27-août-20
SU-DS05-2018-2019: Digital security, privacy and accountability in critical sectors	IA	10 M€	15-mars-19	22-août-19
	RIA	10 M€	15-mars-19	22-août-19
SU-DS02-2020: Management of cyber-attacks and other risks	IA	38 M€	15-mars-20	27-août-20