

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

**DÉFIS SOCIÉTAUX**

**Santé, bien-être, vieillissement**

Titre	Type	Budget	Date d'ouverture	Date limite
<b>Médecine personnalisée</b>				
<a href="#">SC1-BHC-01-2019: Understanding causative mechanisms in co- and multimorbidities</a>	RIA	70 M€	26-juil-18	02/10/2018 (1ère étape) puis 16/04/2019 (2ème étape)
<a href="#">SC1-BHC-02-2019: Systems approaches for the discovery of combinatorial therapies for complex disorders</a>	RIA	50 M€	26-juil-18	02/10/2018 (1ère étape) puis 16/04/2019 (2ème étape)
<a href="#">SC1-BHC-03-2018: Exploiting research outcomes and application potential of the human microbiome for personalised prediction, prevention and treatment of disease</a>	RIA	50 M€	Ouvert	18-avr-18
<a href="#">SC1-BHC-04-2018: Rare Disease European Joint Programme Cofund</a>	COFUND-EJP	55 M€	Ouvert	18-avr-18
<a href="#">SC1-BHC-05-2018: International flagship collaboration with Canada for human data storage, integration and sharing to enable personalised medicine approaches</a>	RIA	40 M€	Ouvert	18-avr-18
<a href="#">SC1-HCO-01-2018-2019-2020: Actions in support of the International Consortium for Personalised Medicine</a>	CSA	8 M€	Ouvert	18-avr-18
<a href="#">SC1-HCO-02-2018: Data integration and data-driven in-silico models for enabling personalised medicine - a European standardization framework</a>	CSA	2 M€	Ouvert	18-avr-18
<a href="#">SC1-HCO-04-2018: ERA-NET to support the Joint Programming in Neurodegenerative Diseases strategic plan (JPND)</a>	ERA-NET	5 M€	Ouvert	18-avr-18
<b>Industrie du soin et de la santé innovante</b>				
<a href="#">SC1-BHC-07-2019: Regenerative medicine: from new insights to new applications</a>	RIA	50 M€	26-juil-18	16-avr-19
<a href="#">SC1-BHC-09-2018: Innovation platforms for advanced therapies of the future</a>	RIA	54 M€	Ouvert	18-avr-18
<a href="#">SC1-BHC-10-2019: Innovation Procurement: Next generation sequencing (NGS) for routine diagnosis</a>	PCP	40 M€	26-juil-18	16-avr-19
<a href="#">SC1-HCO-05-2018: Strengthening regulatory sciences and supporting regulatory scientific advice</a>	CSA	2 M€	Ouvert	18-avr-18
<b>Maladies infectieuses et amélioration de la santé mondiale</b>				
<a href="#">SC1-BHC-13-2019: Mining big data for early detection of infectious disease threats driven by climate change and other factors</a>	RIA	30 M€	26-juil-18	16-avr-19
<a href="#">SC1-BHC-14-2019: Stratified host-directed approaches to improve prevention, treatment and/or cure of infectious diseases</a>	RIA	95 M€	26-juil-18	16-avr-19
<a href="#">SC1-BHC-15-2018: New anti-infective agents for prevention and/or treatment of neglected infectious diseases (NID)</a>	RIA	52 M€	Ouvert	6/02/2018 (1ère étape) puis 04/09/2018

<a href="#">SC1-BHC-16-2018: Global Alliance for Chronic Diseases (GACD) - Scaling-up of evidence-based health interventions at population level for the prevention and management of hypertension and/or diabetes</a>	RIA	20 M€	Ouvert	18-avr-18
<a href="#">SC1-BHC-18-2018: Translational collaborative cancer research between Europe and the Community of Latin American and Caribbean States (CELAC)</a>	RIA	25 M€	Ouvert	18-avr-18
<a href="#">SC1-BHC-19-2019: Implementation research for maternal and child health</a>	RIA	25 M€	26-juil-18	16-avr-19
<a href="#">SC1-BHC-21-2018: Research on HIV, tuberculosis (TB) and/or hepatitis C (HCV) in patients with mono-, co-infections and/or comorbidities in the context of fostering collaboration with the Russian Federation</a>	RIA	10 M€	Ouvert	18-avr-18
<a href="#">SC1-HCO-06-2018: Establishment of an International Network of Social Sciences Research Centres to help address governance and other challenges in the preparedness for and the response to infectious threats</a>	CSA	3 M€	Ouvert	18-avr-18
<a href="#">SC1-HCO-08-2018: Creation of a European wide sustainable clinical research network for infectious diseases</a>	CSA	3 M€	Ouvert	18-avr-18
<a href="#">SC1-HCO-09-2018: Building international efforts on population and patient cohorts</a>	CSA	2 M€	Ouvert	18-avr-18
<a href="#">SC1-HCO-10-2018: Coordinating European brain research and developing global initiatives</a>	CSA	2 M€	Ouvert	18-avr-18
<a href="#">SC1-HCO-11-2018: Strategic collaboration in health research and innovation between EU and China</a>	CSA	1 M€	Ouvert	18-avr-18
<b>Systèmes de santé et de soin innovants - intégration du soin</b>				
<a href="#">SC1-BHC-22-2019: Mental health in the workplace</a>	RIA	30 M€	26-juil-18	16-avr-19
<a href="#">SC1-BHC-23-2018: Novel patient-centred approaches for survivorship, palliation and/or end-of-life care</a>	RIA	44 M€	Ouvert	18-avr-18
<a href="#">SC1-BHC-25-2019: Demonstration pilots for implementation of personalised medicine in healthcare</a>	IA	60 M€	26-juil-18	16-avr-19
<a href="#">SC1-BHC-26-2018: HTA research to support evidence-based healthcare</a>	RIA	10 M€	Ouvert	18-avr-18
<a href="#">SC1-HCO-12-2018: Innovation in healthcare - a CSA towards using pre-commercial procurement and public procurement of innovative solutions in healthcare systems</a>	CSA	2 M€	Ouvert	18-avr-18
<b>Décoder le rôle de l'environnement, dont le changement climatique, sur la santé et le bien-être</b>				
<a href="#">SC1-BHC-27-2018: New testing and screening methods to identify endocrine disrupting chemicals</a>	RIA	52 M€	Ouvert	18-avr-18
<a href="#">SC1-BHC-28-2019: The Human Exposome Project: a toolbox for assessing and addressing the impact of environment on health</a>	RIA	50 M€	26-juil-18	16-avr-19
<a href="#">SC1-HCO-13-2018: Setting the priorities for a European environment, climate and health research agenda</a>	CSA	3 M€	Ouvert	18-avr-18
<b>Transformation numérique dans la santé et le soin</b>				
<a href="#">SC1-DTH-01-2019: Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment</a>	RIA	35 M€	16-oct-18	24-avr-19
<a href="#">SC1-DTH-03-2018: Adaptive smart working and living environments supporting active and healthy ageing</a>	RIA	25 M€	Ouvert	24-avr-18

<a href="#">SC1-DTH-05-2019: Large scale implementation of digital innovation for health and care in an ageing society</a>	PPI	10 M€	43389	43579
<a href="#">SC1-DTH-07-2018: Exploiting the full potential of in-silico medicine research for personalised diagnostics and therapies in cloud-based environments</a>	RIA	35 M€	Ouvert	24-avr-18
<a href="#">SC1-DTH-08-2018: Prototyping a European interoperable Electronic Health Record (EHR)</a>	RIA	30 M€	Ouvert	24-avr-18
<a href="#">SC1-DTH-09-2019: Scaling up the univocal Identification of Medicinal Products</a>	IA	19 M€	16-oct-18	24-avr-19
<a href="#">SC1-DTH-10-2019-2020: Digital health and care services</a>	PCP	22 M€	Ouvert	24-avr-18
<a href="#">SC1-DTH-11-2019: Large Scale pilots of personalised &amp; outcome based integrated care</a>	IA	20 M€	16-oct-18	24-avr-19
<a href="#">SC1-HCC-01-2018: Supporting investment in smart living environments for ageing well through certification</a>	CSA	1 M€	Ouvert	24-avr-18
<a href="#">SC1-HCC-02-2019: Support for the large scale uptake of open service platforms in the Active and Healthy Ageing domain</a>	CSA	1,5 M€	16-oct-18	24-avr-19
<a href="#">SC1-HCC-03-2018: Support to further development of international cooperation in digital transformation of health and care</a>	CSA	2 M€	Ouvert	24-avr-18
<a href="#">SC1-HCC-04-2018: Digital health and care services – support for strategy and (early) adoption</a>	CSA	3 M€	Ouvert	24-avr-18
<a href="#">SC1-HCC-05-2018: Support to a Digital Health and Care Innovation initiative in the context of Digital Single Market strategy</a>	CSA	4 M€	Ouvert	24-avr-18
<b>Solutions numériques de confiance et cybersécurité dans la santé et le soin</b>				
<a href="#">DT-TDS-01-2019: Smart and healthy living at home</a>	IA	60 M€	26-juil-18	14-nov-18
<a href="#">SU-TDS-02-2018: Toolkit for assessing and reducing cyber risks in hospitals and care centres to protect privacy/data/infrastructures</a>	RIA	35 M€	Ouvert	24-avr-18
<a href="#">SU-TDS-03-2018: Raising awareness and developing training schemes on cybersecurity in hospitals</a>	CSA	1 M€	Ouvert	24-avr-18

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**DÉFIS SOCIÉTAUX**

**Sécurité alimentaire, bioéconomie**

Titre	Type	Budget	Date d'ouverture	Date limite
<b>Renaissance rurale</b>				
<a href="#">CE-RUR-08-2018-2019-2020: Closing nutrient cycles</a>	IA	8 M€	16-oct-18	23-janv-19
<a href="#">_CE-RUR-08-2018-2019-2020: Closing nutrient cycles</a>	RIA	6 M€	Ouvert	13-févr-18
<a href="#">CE-RUR-10-2019: Circular bio-based business models for rural communities</a>	IA	20 M€	16-oct-18	23-janv-19
<a href="#">_DT-RUR-12-2018: ICT Innovation for agriculture – Digital Innovation Hubs for Agriculture</a>	IA	20 M€	Ouvert	13-févr-18
<a href="#">LC-RUR-11-2019-2020: Sustainable wood value chains</a>	IA	20 M€	16-oct-18	23-janv-19
<a href="#">RUR-01-2018-2019: Building modern rural policies on long-term visions and societal engagement</a>	CSA	5 M€	Ouvert	13-févr-18
<a href="#">RUR-01-2018-2019: Building modern rural policies on long-term visions and societal engagement</a>	RIA	6 M€	16-oct-18	23-janv-19
<a href="#">RUR-01-2018-2019: Building modern rural policies on long-term visions and societal engagement</a>	RIA	12 M€	Ouvert	13-févr-18
<a href="#">RUR-02-2018: Socio-economic impacts of digitisation of agriculture and rural areas</a>	RIA	5 M€	Ouvert	13-févr-18
<a href="#">RUR-03-2018: Contracts for effective and lasting delivery of agri-environmental public goods</a>	RIA	15 M€	Ouvert	13-févr-18
<a href="#">RUR-04-2018-2019: Analytical tools and models to support policies related to agriculture and foodt</a>	RIA	12 M€	Ouvert	13-févr-18
<a href="#">RUR-09-2018: Realising the potential of regional and local bio-based economies</a>	CSA	3 M€	Ouvert	13-févr-18
<a href="#">RUR-13-2018: Enabling the farm advisor community to prepare farmers for the digital age</a>	CSA	7 M€	Ouvert	13-févr-18
<a href="#">RUR-14-2018: Digital solutions and e-tools to modernise the CAP</a>	IA	10 M€	Ouvert	13-févr-18
<a href="#">RUR-15-2018-2019-2020: Thematic networks compiling knowledge ready for practice</a>	CSA	10 M€	16-oct-18	23-janv-19
<a href="#">RUR-15-2018-2019-2020: Thematic networks compiling knowledge ready for practice</a>	CSA	12,43 M€	Ouvert	13-févr-18
<a href="#">RUR-16-2019: Fuelling the potential of advisors for innovation</a>	CSA	5 M€	16-oct-18	23-janv-19
<b>Sécurité alimentaire durable</b>				
<a href="#">CE-SFS-24-2019: Innovative and citizen-driven food system approaches in cities</a>	IA	12 M€	16-oct-18	23-janv-19
<a href="#">CE-SFS-25-2018: Integrated system innovation in valorising urban biowaste</a>	IA	20 M€	Ouvert	13-févr-18
<a href="#">CE-SFS-39-2019: High-quality organic fertilisers from biogas digestate</a>	IA	5 M€	16-oct-18	23-janv-19
<a href="#">DT-SFS-14-2018: Personalized Nutrition</a>	IA	28 M€	Ouvert	13-févr-18
<a href="#">DT-SFS-26-2019: Food Cloud demonstrators</a>	IA	10 M€	16-oct-18	23-janv-19
<a href="#">LC-SFS-03-2018: Microbiome applications for sustainable food systems</a>	IA	42 M€	Ouvert	13-févr-18
<a href="#">LC-SFS-15-2018: Future proofing our plants</a>	CSA	3 M€	Ouvert	13-févr-18
<a href="#">LC-SFS-17-2019: Alternative proteins for food and feed</a>	IA	32 M€	16-oct-18	23-janv-19
<a href="#">LC-SFS-19-2018-2019: Climate-smart and resilient farming</a>	RIA	14 M€	16-oct-18	23-janv-19

<a href="#">LC-SFS-19-2018-2019: Climate-smart and resilient farming</a>	RIA	7 M€	Ouvert	43144
<a href="#">LC-SFS-20-2019: European Joint Programme on agricultural soil management</a>	EJP	40 M€	43389	43488
<a href="#">LC-SFS-34-2019: Food Systems Africa</a>	RIA	21 M€	16-oct-18	23-janv-19
<a href="#">SFS-01-2018-2019-2020: Biodiversity in action: across farmland and the value chain</a>	IA	14 M€	Ouvert	13-févr-18
<a href="#">SFS-04-2019-2020: Integrated health approaches and alternatives to pesticide use</a>	RIA	15 M€	16-oct-18	23-janv-19
<a href="#">SFS-05-2018-2019-2020: New and emerging risks to plant health</a>	RIA	7 M€	16-oct-18	23-janv-19
<a href="#">SFS-05-2018-2019-2020: New and emerging risks to plant health</a>	RIA	7 M€	Ouvert	13-févr-18
<a href="#">SFS-06-2018-2020: Stepping up integrated pest management</a>	RIA	5 M€	Ouvert	13-févr-18
<a href="#">SFS-07-2018: Making European beekeeping healthy and sustainable</a>	RIA	8 M€	Ouvert	13-févr-18
<a href="#">SFS-08-2018-2019: Improving animal welfare</a>	IA	6 M€	16-oct-18	23-janv-19
<a href="#">SFS-08-2018-2019: Improving animal welfare</a>	RIA	10 M€	Ouvert	13-févr-18
<a href="#">SFS-11-2018-2019: Anti-microbials and animal production</a>	RIA	6 M€	16-oct-18	23-janv-19
<a href="#">SFS-11-2018-2019: Anti-microbials and animal production</a>	RIA	12 M€	Ouvert	13-févr-18
<a href="#">SFS-12-2019: A vaccine against African swine fever</a>	IA	10 M€	16-oct-18	23-janv-19
<a href="#">SFS-16-2018: Towards healthier and sustainable food</a>	RIA	14 M€	Ouvert	13-févr-18
<a href="#">SFS-23-2019: Integrated water management in small agricultural catchments</a>	RIA	14 M€	16-oct-18	23-janv-19
<a href="#">SFS-27-2018: Monitoring food R&amp;I investments and impacts</a>	RIA	7 M€	Ouvert	13-févr-18
<a href="#">SFS-28-2018-2019-2020: Genetic resources and pre-breeding communities</a>	RIA	14 M€	16-oct-18	23-janv-19
<a href="#">SFS-28-2018-2019-2020: Genetic resources and pre-breeding communities</a>	CSA	3 M€	Ouvert	13-févr-18
<a href="#">SFS-29-2018: Innovations in plant variety testing</a>	RIA	8 M€	Ouvert	13-févr-18
<a href="#">SFS-30-2018-2019-2020: Agri-Aqua Labs</a>	RIA	10 M€	16-oct-18	23-janv-19
<a href="#">SFS-30-2018-2019-2020: Agri-Aqua Labs</a>	RIA	18 M€	Ouvert	13-févr-18
<a href="#">SFS-31-2019: ERANETs in agri-food</a>	ERANET	21 M€	16-oct-18	23-janv-19
<a href="#">SFS-32-2018: Supporting microbiome coordination and the International Bioeconomy Forum</a>	CSA	2,75 M€	Ouvert	13-févr-18
<a href="#">SFS-33-2018: Support to the implementation of the EU-Africa Research and Innovation Partnership on Food and Nutrition Security &amp; Sustainable Agriculture (FNSSA)</a>	CSA	5 M€	Ouvert	13-févr-18
<a href="#">SFS-35-2019-2020: Sustainable Intensification in Africa</a>	RIA	35 M€	16-oct-18	23-janv-19
<a href="#">SFS-37-2019: Integrated approaches to food safety controls across the food chain</a>	RIA	8 M€	16-oct-18	23-janv-19
<a href="#">SFS-38-2018: Highly efficient management of soil quality and land resources</a>	RIA	5 M€	Ouvert	13-févr-18
<b>Croissance bleue</b>				
<a href="#">BG-01-2018: Towards a Baltic and North Sea research and innovation programme</a>	CSA	2,5 M€	Ouvert	13-févr-18
<a href="#">BG-02-2018: Blue Bioeconomy Public-Public Partnership</a>	ERANET	8 M€	Ouvert	13-févr-18
<a href="#">BG-05-2019: Multi-use of the marine space, offshore and near-shore: pilot demonstrators</a>	IA	18 M€	16-oct-18	23-janv-19

<a href="#">BG-07-2019-2020: The Future of Seas and Oceans Flagship Initiative</a>	IA	18 M€	16-oct-18	23-janv-19
<a href="#">BG-08-2018-2019: All Atlantic Ocean Research Alliance Flagship</a>	RIA	27 M€	16-oct-18	23-janv-19
<a href="#">BG-08-2018-2019: All Atlantic Ocean Research Alliance Flagship</a>	CSA	4 M€	Ouvert	13-févr-18
<a href="#">BG-08-2018-2019: All Atlantic Ocean Research Alliance Flagship</a>	RIA	33 M€	Ouvert	13-févr-18
<a href="#">CE-BG-06-2019: Sustainable solutions for bio-based plastics on land and sea</a>	IA	18 M€	16-oct-18	23-janv-19
<a href="#">DT-BG-04-2018-2019: Sustainable European aquaculture 4.0: nutrition and breeding</a>	IA	6 M€	16-oct-18	23-janv-19
<a href="#">DT-BG-04-2018-2019: Sustainable European aquaculture 4.0: nutrition and breeding</a>	IA	18 M€	Ouvert	13-févr-18
<a href="#">LC-BG-03-2018: Sustainable harvesting of marine biological resources</a>	RIA	12 M€	Ouvert	13-févr-18
<a href="#">LC-BG-09-2019: Coordination of marine and maritime research and innovation in the Black Sea</a>	CSA	2 M€	16-oct-18	23-janv-19



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**DÉFIS SOCIETAUX**

**Energies sûres, propres et efficaces**

Titre	Type	Budget	Date d'ouverture	Date limite
<b>Efficacité énergétique</b>				
<a href="#">LC-SC3-EE-1-2018-2019-2020: Decarbonisation of the EU building stock: innovative approaches and affordable solutions changing the market for buildings renovation</a>	IA	9 M€	25-janv-18	4-sept-18
	IA	12 M€	24-janv-19	3-sept-19
<a href="#">LC-SC3-EE-2-2018-2019: Integrated home renovation services</a>	CSA	7 M€	25-janv-18	4-sept-18
		10 M€	24-janv-19	3-sept-19
<a href="#">LC-SC3-EE-3-2019-2020: Stimulating demand for sustainable energy skills in the construction sector</a>	CSA	6 M€	24-janv-19	3-sept-19
<a href="#">LC-SC3-EE-4-2019-2020: Upgrading smartness of existing buildings through innovations for legacy equipment</a>	IA	10 M€	24-janv-19	3-sept-19
<a href="#">LC-SC3-EE-5-2018-2019-2020: Next-generation of Energy Performance Assessment and Certification</a>	CSA	5 M€	25-janv-18	4-sept-18
	IA	10 M€	24-janv-19	3-sept-19
<a href="#">LC-SC3-EE-6-2018-2019-2020: Business case for industrial waste heat/cold recovery</a>	IA	9 M€	25-janv-18	4-sept-18
	CSA	10 M€	24-janv-19	4-sept-18
<a href="#">LC-SC3-EE-8-2018-2019: Capacity building programmes to support implementation of energy audits</a>	CSA	10 M€	25-janv-18	4-sept-18
		5 M€	24-janv-19	4-sept-18
<a href="#">LC-SC3-EE-9-2018-2019: Innovative financing for energy efficiency investments</a>	CSA	6 M€	25-janv-18	4-sept-18
		4 M€	24-janv-19	24-janv-19
<a href="#">LC-SC3-EE-10-2018-2019-2020: Mainstreaming energy efficiency finance</a>	CSA	6 M€	25-janv-18	4-sept-18
		6 M€	24-janv-18	3-sept-19
<a href="#">LC-SC3-EE-11-2018-2019-2020: Aggregation - Project Development Assistance</a>	CSA	7 M€	25-janv-18	4-sept-18
		6 M€	24-janv-19	3-sept-19

<a href="#">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</a>	CSA	4 M€	25-janv-18	4-sept-18
	IA	8 M€	24-janv-19	3-sept-19
<a href="#">LC-SC3-EE-14-2018-2019-2020: Socio-economic research conceptualising and modelling energy efficiency and energy demand</a>	RIA	4 M€	25-janv-18	4-sept-18
		4 M€	24-janv-19	3-sept-19
<a href="#">LC-SC3-EE-15-2018: New energy label driving and boosting innovation in products energy efficiency</a>	CSA	5 M€	25-janv-18	4-sept-18
<a href="#">LC-SC3-EE-16-2018-2019-2020: Supporting public authorities to implement the Energy Union</a>	CSA	8 M€	25-janv-18	4-sept-18
		10 M€	24-janv-19	3-sept-19
<a href="#">LC-SC3-EE-17-2019: European City facility - European Cities as key innovation hubs to unlock finance for energy efficiency</a>	CSA	11 M€	1-août-18	16-oct-18 (première étape) 25-avr-19 (deuxième étape)
<b>Leadership global dans les renouvelables</b>				
<a href="#">LC-SC3-RES-1-2019-2020: Developing the next generation of renewable energy technologies</a>	RIA	20 M€	1-août-18	16-oct-18 (première étape) 25-avr-19 (deuxième étape)
<a href="#">LC-SC3-RES-2-2018: Disruptive innovation in clean energy technologies</a>	RIA	12 M€	5-déc-17	19-avr-18
<a href="#">LC-SC3-RES-4-2018: Renewable energy system integrated at the building scale</a>	RIA	27,5 M€	Ouvert	31-janv-18 (première étape) 23-aou-2018 (deuxième étape)
<a href="#">LC-SC3-RES-5-2018: Increased performance of technologies for local heating and cooling solutions</a>	IA	10 M€	Ouvert	13-févr-18
<a href="#">LC-SC3-RES-6-2018: Demonstrate significant cost reduction for Building Integrated PV (BIPV) solutions</a>	IA	30 M€	Ouvert	13-févr-18
<a href="#">LC-SC3-RES-7-2019: Solar Energy in Industrial Processes</a>	RIA	10 M€	7-mai-19	27-août-19
<a href="#">LC-SC3-RES-8-2019: Combining Renewable Technologies for a Renewable District Heating and/or Cooling System</a>	IA	15 M€	5-sept-18	11-déc-18
<a href="#">LC-SC3-RES-11-2018: Developing solutions to reduce the cost and increase performance of renewable technologies</a>	RIA	30 M€	Ouvert	31-janv-18 (première étape) 23-aou-2018 (deuxième étape)
<a href="#">LC-SC3-RES-12-2018: Demonstrate highly performant renewable technologies for combined heat and power (CHP) generation and their integration in the EU's energy system</a>	IA	30 M€	Ouvert	13-févr-18



<a href="#">LC-SC3-RES-13-2018: Demonstrate solutions that significantly reduce the cost of renewable power generation</a>	IA	45 M€	Ouvert	13-févr-18
<a href="#">LC-SC3-RES-14-2019: Optimising manufacturing and system operation</a>	RIA	20 M€	1-août-18	16-oct-18 (première étape) 25-avr-19 (deuxième étape)
<a href="#">LC-SC3-RES-15-2019: Increase the competitiveness of the EU PV manufacturing industry</a>	IA	25 M€	5-sept-18	11-déc-18
<a href="#">LC-SC3-RES-16-2019: Development of solutions based on renewable sources that provide flexibility to the energy system</a>	RIA	15 M€	7-mai-19	27 aout 2019
<a href="#">LC-SC3-RES-17-2019: Demonstration of solutions based on renewable sources that provide flexibility to the energy system</a>	IA	40 M€	5-sept-18	11-déc-18
<a href="#">LC-SC3-RES-21-2018: Development of next generation biofuels and alternative renewable fuel technologies for road transport</a>	RIA	25 M€	Ouvert	13-févr-18
<a href="#">LC-SC3-RES-22-2018: Demonstration of cost effective advanced biofuel pathways in retrofitted existing industrial installations</a>	IA	20 M€	5-déc-17	5-avr-18
<a href="#">LC-SC3-RES-23-2019: Development of next generation biofuel and alternative renewable fuel technologies for aviation and shipping</a>	RIA	20 M€	7-mai-19	27-août-19
<a href="#">LC-SC3-RES-24-2019: Boosting pre-commercial production of advanced aviation biofuels</a>	IA	20 M€	5-sept-18	11-déc-18
<a href="#">LC-SC3-RES-28-2018-2019-2020: Market Uptake support</a>	CSA	15 M€	Ouvert	13-févr-18
		15 M€	5-sept-18	11-déc-18
<b>LC-SC3-RES-3-2020: International Cooperation with USA on alternative renewable fuels for energy and transport</b>	A définir			
<b>LC-SC3-RES-9-2020: Next generation of thin-film photovoltaic technologies</b>				
<b>LC-SC3-RES-10-2020: Pre-Commercial Procurement for a 100% Renewable Energy Supply</b>				
<b>LC-SC3-RES-18-2020: Demonstration of the solutions based on renewable sources that provide flexibility to the energy system</b>				
<b>LC-SC3-RES-19-2020: Demonstration of floating wind farms</b>				
<b>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)</b>				
<b>LC-SC3-RES-25-2020: International cooperation for Research and Innovation on advanced biofuels and alternative renewable fuels</b>				
<b>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)</b>				
<b>LC-SC3-RES-27-2020: Demonstration of advanced biofuels production from aquatic biomass</b>				

Energie intelligente et propre pour les consommateurs				
<a href="#">LC-SC3-EC-1-2018-2019-2020: The role of consumers in changing the market through informed decision and collective actions</a>	CSA	5 M€	25-janv-18	4-sept-18
		5 M€	24-janv-19	3-sept-19
<a href="#">LC-SC3-EC-2-2018-2019-2020: Mitigating household energy poverty</a>	CSA	5 M€	25-janv-18	4-sept-18
		5 M€	24-janv-19	3-sept-19
<b>LC-SC3-EC-3-2020 - Consumer engagement and demand response</b>	A définir			
Systèmes énergétiques intelligents centrés sur les citoyens				
<a href="#">LC-SC3-ES-1-2019: Flexibility and retail market options for the distribution grid</a>	IA	37,3 M€	5-sept-18	5-févr-19
<a href="#">LC-SC3-ES-2-2019: Solutions for increased regional cross-border cooperation in the transmission grid</a>	IA	25 M€	5-sept-18	5-févr-18
<a href="#">LC-SC3-ES-3-2018-2020: Integrated local energy systems (Energy islands)</a>	IA	26,3 M€	5-déc-17	5-avr-18
<a href="#">LC-SC3-ES-4-2018-2020: Decarbonising energy systems of geographical Islands</a>	IA	19 M€	5-déc-17	5-avr-18
<a href="#">LC-SC3-ES-5-2018-2020: TSO – DSO – Consumer: Large-scale demonstrations of innovative grid services through demand response, storage and small-scale (RES) generation</a>	IA	30 M€	5-déc-17	5-avr-18
<a href="#">LC-SC3-ES-6-2019: Research on advanced tools and technological development</a>	RIA	25,35 M€	5-sept-18	5-févr-19
<a href="#">LC-SC3-ES-7-2018: Pan-European Forum for R&amp;I on Smart Grids, Flexibility and Local Energy Networks</a>	CSA	3 M€	5-déc-17	5-avr-18
<a href="#">LC-SC3-ES-8-2019: European Islands Facility - Unlock financing for energy transitions and supporting islands to develop investment concepts</a>	CSA	10 M€	5-sept-18	5-févr-18
Communautés et villes intelligentes				
<a href="#">LC-SC3-SCC-1-2018-2019-2020: Smart Cities and Communities</a>	IA	43 M€	5-déc-17	5-avr-18
		73 M€	5-sept-18	5-févr-19
Permettre des émissions de CO <sub>2</sub> proches de zéro des centrales électriques à énergies fossiles et d'industries à fortes émissions				
<a href="#">LC-SC3-NZE-1-2018: Advanced CO<sub>2</sub> capture technologies</a>	RIA	20 M€	15-mai-18	6-sept-18
<a href="#">CE-SC3-NZE-2-2018: Conversion of captured CO<sub>2</sub></a>	RIA	12 M€	15-mai-18	6-sept-18
<a href="#">LC-SC3-NZE-3-2018: Strategic planning for CCUS development</a>	CSA	3 M€	15-mai-18	6-sept-18
<a href="#">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</a>	IA	20 M€	7-mai-19	27-août-19
<a href="#">LC-SC3-NZE-5-2019-2020: Low carbon industrial production using CCUS</a>	IA	33 M€	7-mai-19	27-août-19
<b>LC-SC3-NZE-6-2020: Geological Storage Pilots</b>	Joint Actions	A définir		

Actions communes				
<a href="#">LC-SC3-JA-1-2018: Joint programming actions to foster innovative energy solutions</a>	ERA-NET Cofund	10 M€	15-mai-18	11-sept-18
<a href="#">LC-SC3-JA-2-2018: Support to the realisation of the Implementation Plans of the SET Plan</a>	CSA	6 M€	15-mai-18	11-sept-18
<a href="#">LC-SC3-JA-3-2019: European Pre-Commercial Procurement Programme for Wave Energy Research &amp; Development</a>	Pre-commercial Procurement	20 M€	14-nov-18	27-août-19
<a href="#">LC-SC3-JA-4-2018: Support action in preparation of a Joint Programming activity</a>	CSA	1 M€	31-oct-17	31-janv-18
<a href="#">LC-SC3-JA-5-2019: Joint Programming with EU and African partners for a R&amp;I actions in the area of renewable energy</a>	COFUND	15 M€	14-nov-18	27-août-19
Problématiques transversales				
<a href="#">LC-SC3-CC-1-2018-2019-2020: Social Sciences and Humanities (SSH) aspects of the Clean-Energy Transition</a>	RIA	10 M€	15-mai-18	6-sept-18
		10 M€	7-mai-19	27-août-19
<a href="#">LC-SC3-CC-2-2018: Modelling in support to the transition to a Low-Carbon Energy System in Europe</a>	RIA	5 M€	15-mai-18	6-sept-18
<a href="#">LC-SC3-CC-3-2019: Support for the opening of low-carbon energy research databases in Europe</a>	CSA	2 M€	14-nov-18	27-août-19
<a href="#">LC-SC3-CC-4-2018: Support to sectorial fora</a>	CSA	8,5 M€	5-déc-17	19-avr-18
<a href="#">LC-SC3-CC-5-2018: Research, innovation and educational capacities for energy transition</a>	CSA	4 M€	15-mai-18	6-sept-18
<a href="#">LC-SC3-CC-6-2018: Transition in coal intensive regions</a>	CSA	2 M€	15-mai-18	6-sept-18
<a href="#">Horizon prize for CO2 reuse</a>	Prix	1,5 M€	Ouvert	3-avr-19
<a href="#">Horizon prize for a combined heat and power installation in a hospital using 100% renewable energy sources</a>	Prix	1 M€	Ouvert	3-avr-19
<a href="#">Horizon prize for integrated photovoltaic system in European protected historic urban districts</a>	Prix	0,75 M€	Ouvert	26-sept-18

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**DÉFIS SOCIÉTAUX**

**Transports intelligents, verts et intégrés**

Titre	Type	Budget	Date d'ouverture	Date limite
<b>Construire un futur bas carbone et résilient au changement climatique : transport bas carbone et durable</b>				
<a href="#">LC-MG-1-1-2018: InCo flagship on reduction of transport impact on air quality</a>	RIA	30 M€	Ouvert	30/01/18 (1ère étape) puis 19/09/18 (2ème étape)
<a href="#">LC-MG-1-2-2018: Sustainable multi-modal inter-urban transport, regional mobility and spatial planning</a>	RIA	12 M€	Ouvert	30/01/18 (1ère étape) puis 19/09/18 (2ème étape)
<a href="#">LC-MG-1-3-2018: Harnessing and understanding the impacts of changes in urban mobility on policy making by city-led innovation for sustainable urban mobility</a>	CSA	3 M€	Ouvert	4-avr-18
	RIA	11 M€	Ouvert	30/01/18 (1ère étape) puis 19/09/18 (2ème étape)
<a href="#">LC-MG-1-4-2018: Hardening vehicle environmental protection systems against tampering</a>	RIA	5 M€	Ouvert	30/01/18 (1ère étape) puis 19/09/18 (2ème étape)
<a href="#">LC-MG-1-5-2019: Advancements in aerodynamics and innovative propulsion systems for quieter and greener aircrafts</a>	RIA	15 M€	5-sept-18	16/01/19 (1ère étape) puis 12/09/19 (2ème étape)
<a href="#">LC-MG-1-6-2019: Aviation operations impact on climate change (InCo flagship)</a>	RIA	10 M€	4-déc-18	24-avr-19
<a href="#">LC-MG-1-7-2019: Future propulsion and integration: towards a hybrid/electric aircraft (InCo flagship)</a>	RIA	15 M€	4-déc-18	24-avr-19
<a href="#">LC-MG-1-8-2019: Retrofit Solutions and Next Generation Propulsion for Waterborne Transport</a>	IA	8 M€	5-sept-18	16/01/19 (1ère étape) puis 12/09/19 (2ème étape)
	RIA	15 M€		
<a href="#">LC-MG-1-9-2019: Upgrading transport infrastructure in order to monitor noise and emissions</a>	RIA	7 M€	5-sept-18	16/01/19 (1ère étape) puis 12/09/19 (2ème étape)
<a href="#">LC-MG-1-10-2019: Logistics solutions that deal with requirements of the 'on demand economy' and for shared-connected and low-emission logistics operations</a>	RIA	10 M€	5-sept-18	16/01/19 (1ère étape) puis 12/09/19 (2ème étape)

Systèmes de transports sûrs, résilients et intégrés				
<a href="#">MG-2-1-2018: Human Factors in Transport Safety</a>	RIA	18 M€	Ouvert	30/01/18 (1ère étape) puis 19/09/18 (2ème étape)
<a href="#">MG-2-2-2018: Marine Accident Response</a>	IA	35 M€	Ouvert	30/01/18 (1ère étape) puis 19/09/18 (2ème étape)
	RIA			
<a href="#">MG-2-3-2018: Airworthiness of mass-market drones</a>	CSA	3 M€	Ouvert	4-avr-18
<a href="#">MG-2-4-2018: Coordinating national efforts in modernizing transport infrastructure and provide innovative mobility services</a>	CSA	1 M€	31-oct-17	4-avr-18
<a href="#">MG-2-5-2018: Innovative technologies for improving aviation safety and certification in icing conditions (InCo flagship)</a>	RIA	16 M€	31-oct-17	4-avr-18
<a href="#">MG-2-6-2019: Moving freight by Water: Sustainable Infrastructure and Innovative Vessels</a>	RIA	30 M€	5-sept-18	16/01/19 (1ère étape) puis 12/09/19 (2ème étape)
<a href="#">MG-2-7-2019: Safety in an evolving road mobility environment</a>	RIA	8 M€	5-sept-18	16/01/19 (1ère étape) puis 12/09/19 (2ème étape)
<a href="#">MG-2-8-2019: Innovative applications of drones for ensuring safety in transport</a>	RIA	15 M€	5-sept-18	16/01/19 (1ère étape) puis 12/09/19 (2ème étape)
<a href="#">MG-2-9-2019: InCo Flagship on Integrated multimodal, low-emission freight transport systems and logistics</a>	RIA	14 M€	5-sept-18	16/01/19 (1ère étape) puis 12/09/19 (2ème étape)
<b>MG-2-10-2020: Towards full automated infrastructure construction and maintenance</b>				
<b>MG-2-11-2020: Jointly implementing innovation in the areas of safety, connectivity and infrastructure (ERA-net Co-fund)</b>	A définir			
Leadership global et compétitivité				
<a href="#">MG-3-1-2018: Multidisciplinary and collaborative aircraft design tools and processes</a>	RIA	12 M€	31-oct-17	30/01/18 (1ère étape) puis 19/09/18 (2ème étape)
<a href="#">MG-3-2-2018: The Autonomous Ship</a>	IA	20 M€	31-oct-17	30/01/18 (1ère étape) puis 19/09/18 (2ème étape)
<a href="#">MG-3-3-2018: "Driver" behaviour and acceptance of connected, cooperative and automated transport</a>	RIA	12 M€	31-oct-17	30/01/18 (1ère étape) puis 19/09/18 (2ème étape)

<b>MG-3-04-2020: Enhanced avionics, operations and door-to-door user-experience through higher connectivity and automation</b>	<b>A définir</b>			
<b>MG-3-05-2020: Towards a high-speed global air transportation demonstration</b>				
<b>MG-3-06-2020: Next Generation Multifunctional and Intelligent Aerostructures – from manufacturing to maintenance and recycling</b>				
<b>MG-3-07-2020: Improved Production Processes in Ship building</b>				
<b>Responsabilité vis-à-vis des citoyens</b>				
<a href="#">MG-4-1-2018: New regulatory frameworks to enable effective deployment of emerging technologies and business/operating models for all transport modes</a>	CSA	2 M€	31-oct-17	4-avr-18
<a href="#">MG-4-2-2018: Building Open Science platforms in transport research</a>	CSA	3 M€	31-oct-17	4-avr-18
<a href="#">MG-4-3-2018: Demographic change and participation of women in transport</a>	RIA	5 M€	31-oct-17	4-avr-18
<a href="#">MG-4-4-2018-2019: Support for dissemination events in the field of Transport Research</a>	CSA	1,4 M€	31-oct-17	4-avr-18
		0,7 M€	4-déc-18	24-avr-19
<a href="#">MG-4-5-2019: An inclusive digitally interconnected transport system meeting citizens' needs</a>	RIA	7 M€	4-déc-18	24-avr-19
<a href="#">MG-4-6-2019: Supporting Joint Actions on sustainable urban accessibility and connectivity</a>	ERA-NET Cofund	6 M€	4-déc-18	24-avr-19
<b>MG-4-07-2020: Digitisation of the transport system: data sharing, analytics</b>	<b>A définir</b>			
<b>MG-4-08-2020: Advanced methods and tools in support of transport/mobility researchers, planners and policy makers</b>				
<b>Croissance bleue</b>				
<a href="#">MG-BG-01-2018: Unmanned and autonomous survey activities at sea</a>	RIA	8 M€	31-oct-17	4-avr-18
<a href="#">MG-BG-02-2019: Ship emission control scenarios, marine environmental impact and mitigation</a>	RIA	8 M€	4-déc-18	24-avr-19
<b>MG-BG-03-2020: Under water noise mitigation and environmental impact</b>	<b>A définir</b>			
<b>Numériser et transformer l'industrie et les services européens : transport routier automatisé</b>				
<a href="#">DT-ART-01-2018: Testing, validation and certification procedures for highly automated driving functions under various traffic scenarios based on pilot test data</a>	RIA	6 M€	31-oct-17	4-avr-18
<a href="#">DT-ART-02-2018: Support for networking activities and impact assessment for road automation</a>	RIA	6 M€	31-oct-17	4-avr-18
	CSA	3 M€		
<a href="#">DT-ART-03-2019: Human centred design for the new driver role in highly automated vehicles</a>	RIA	8 M€	4-déc-18	24-avr-19
<a href="#">DT-ART-04-2019: Developing and testing shared, connected and cooperative automated vehicle fleets in urban areas for the mobility of all</a>	IA	30 M€	4-déc-18	24-avr-19
<b>DT-ART-05-2020 - Efficient and safe connected and automated heavy-duty vehicles in real logistics operations</b>	<b>A définir</b>			



DT-ART-06-2020 - Large-scale, cross-border demonstration of highly automated driving functions for passenger cars	A définir			
<b>Construire un futur bas carbone et résilient au changement climatique : véhicules verts</b>				
<a href="#">LC-GV-01-2018: Integrated, brand-independent architectures, components and systems for next generation electrified vehicles optimised for the infrastructure</a>	IA	42 M€	31-oct-17	4-avr-18
<a href="#">LC-GV-02-2018: Virtual product development and production of all types of electrified vehicles and components</a>	RIA	14 M€	31-oct-17	4-avr-18
<a href="#">LC-GV-03-2019: User centric charging infrastructure</a>	IA	35 M€	4-déc-18	24-avr-19
<a href="#">LC-GV-04-2019: Low-emissions propulsion for long-distance trucks and coaches</a>	IA	25 M€	4-déc-18	24-avr-19
<a href="#">LC-GV-05-2019: InCo flagship on "Urban mobility and sustainable electrification in large urban areas in developing and emerging economies"</a>	IA	18 M€	4-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				
<b>Autres actions</b>				
<a href="#">Prix Horizon pour le moteur du futur le plus propre</a>	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
<b>Décarbonisation</b>				
<a href="#">LC-CLA-01-2018: Supporting the development of climate policies to deliver on the Paris Agreement, through Integrated Assessment Models (IAMs)</a>	RIA	25 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
<a href="#">LC-CLA-02-2019: Negative emissions and land-use based mitigation assessment</a>	RIA	22 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
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				
<b>Adaptation, impact, services climatiques</b>				
<a href="#">LC-CLA-03-2018: Climate change impacts in Europe</a>	RIA	20 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
<a href="#">LC-CLA-04-2018: Resilience and sustainable reconstruction of historic areas to cope with climate change and hazard events</a>	RIA	18 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
<a href="#">LC-CLA-05-2019: Human dynamics of climate change</a>	RIA	23 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
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				
<a href="#">LC-CLA-06-2019: Inter-relations between climate change, biodiversity and ecosystem services</a>	RIA	25 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
<b>LC-CLA-14-2020: Understanding water-energy-food nexus and streamlining water-related policies</b>	A définir			
<b>LC-CLA-15-2020: Nature based solutions for forest fires risk reduction and multi-hazard risk management in the E.U.</b>				
<b>La Cryosphère</b>				
<a href="#">LC-CLA-07-2019: The changing cryosphere: uncertainties, risks and opportunities</a>	RIA	39 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
<b>LC-CLA-16-2020: Polar climate: understanding the polar processes in a global context</b>	A définir			
<b>Manque de connaissance</b>				
<a href="#">LC-CLA-08-2018: Addressing knowledge gaps in climate science, in support of IPCC reports</a>	RIA	60 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
<b>LC-CLA-17-2020: Developing the next generation of Earth System Models</b>	A définir			
<b>Observation de la terre</b>				
<b>LC-CLA-18-2020: GEOSS observations supporting the EU in its international commitment in the domain of climate change</b>	A définir			
<b>LC-CLA-19-2020: Supporting the GEOSS Cold Regions Initiative</b>				
<b>Connecter les gains économiques et environnementaux - l'économie circulaire</b>				
<a href="#">CE-SC5-01-2018: Methods to remove hazardous substances and contaminants from secondary raw materials</a>	RIA	34 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
<a href="#">CE-SC5-02-2018: Independent testing programme on premature obsolescence</a>	RIA	5 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
<a href="#">CE-SC5-03-2018: Demonstrating systemic urban development for circular and regenerative cities</a>	IA	39 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
<a href="#">CE-SC5-04-2019: Building a water-smart economy and society</a>	IA	72 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
<a href="#">CE-SC5-05-2018: Coordinated approaches to funding and promotion of research and innovation for the circular economy</a>	CSA	2 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
<b>CE-SC5-22-2020: Improving the recovery and recycling of materials from composite and multi-layer products</b>	A définir			
<b>CE-SC5-23-2020: Understanding the transition to circular economy and its implications</b>				

Matières premières				
<a href="#">CE-SC5-06-2018: New technologies for the enhanced recovery of by-products</a>	RIA	15 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
CE-SC5-07-2018-2019-2020: Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes	IA	20 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
	IA	30 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
CE-SC5-08-2018-2019-2020: Raw materials policy support actions for the circular economy	CSA	5 M€	Ouvert	27/02/2018
	CSA	3 M€	14/11/2018	19/02/2019
SC5-09-2018-2019: New solutions for the sustainable production of raw materials	RIA	20 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
	RIA	30 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
<a href="#">SC5-10-2019-2020: Raw materials innovation actions: exploration and Earth observation in support of sustainable mining</a>	IA	20 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
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				
Eau pour l'environnement, l'économie et la société				
<a href="#">SC5-11-2018: Digital solutions for water: linking the physical and digital world for water solutions</a>	IA	14 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
<a href="#">SC5-12-2018: EU-India water co-operation</a>	RIA	15 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
Villes innovantes pour la durabilité et la résilience				
SC5-13-2018-2019: Strengthening international cooperation on sustainable urbanisation: nature-based solutions for restoration and rehabilitation of urban ecosystems	RIA	10 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
	RIA	10 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
<a href="#">SC5-14-2019: Visionary and integrated solutions to improve well-being and health in cities</a>	IA	43 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)

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			
<b>Protéger et accroître la valeur de nos atouts naturels et culturels : observation de la Terre</b>				
<a href="#">SC5-15-2018: Strengthening the benefits for Europe of the Global Earth Observation System of Systems (GEOSS) - establishing 'EuroGEOSS</a>	IA	15 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
<a href="#">SC5-16-2019: Development of commercial activities and services through the use of GEOSS and Copernicus data</a>	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
<b>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</b>				
<a href="#">SC5-17-2018: Towards operational forecasting of earthquakes and early warning capacity for more resilient societies</a>	RIA	18 M€	Ouvert	27/02/18 (1ère étape) 04/09/18 (2ème étape)
<a href="#">SC5-18-2018: Valuing nature: mainstreaming natural capital in policies and in business decision-making</a>	CSA		Ouvert	27/02/2018
<b>Protéger et accroître la valeur de nos atouts naturels et culturels : Patrimoine vivant</b>				
<a href="#">SC5-19-2018: International network to promote cultural heritage innovation and diplomacy</a>	CSA		Ouvert	27/02/2018
<a href="#">SC5-20-2019: Transforming historic urban areas and/or cultural landscapes into hubs of entrepreneurship and social and cultural integration</a>	IA	25 M€	14/11/2018	19/02/19 (1ère étape) 04/09/19 (2ème étape)
<a href="#">SC5-21-2019-2020: ERA-NET Cofund action(s) for climate action, environment, resource efficiency and raw materials</a>	ERA-NET Cofund	10 M€	14/11/2018	19/02/2019

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**DÉFIS SOCIÉTAUX**

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

Titre	Type	Budget	Date d'ouverture	Date limite
<b>Migration</b>				
<a href="#">MIGRATION-01-2019: Understanding migration mobility patterns: elaborating mid and long-term migration scenarios</a>	RIA	9 M€	6-nov-18	14-mars-19
<a href="#">MIGRATION-02-2018: Towards forward-looking migration governance: addressing the challenges, assessing capacities and designing future strategies</a>	RIA	9 M€	Ouvert	13-mars-18
<a href="#">MIGRATION-03-2019: Social and economic effects of migration in Europe and integration policies</a>	RIA	9 M€	6-nov-18	14-mars-19
<a href="#">MIGRATION-05-2018-2020: Mapping and overcoming integration challenges for migrant children</a>	RIA	6 M€	Ouvert	13-mars-18
<a href="#">DT-MIGRATION-06-2018-2019: Addressing the challenge of migrant integration through ICT-enabled solutions</a>	IA	12 M€	Ouvert	13-mars-18
		8 M€	6-nov-18	14-mars-19
<a href="#">MIGRATION-07-2019: International protection of refugees in a comparative perspective</a>	RIA	9 M€	6-nov-18	14-mars-19
<a href="#">MIGRATION-08-2018: Addressing the challenge of forced displacement</a>	RIA	9 M€	Ouvert	13-mars-18
<b>MIGRATION-04-2020: Inclusive and innovative practices for the integration of migrants in urban areas</b>	A définir (budget : 40 M€)			
<b>MIGRATION-06-2018-2020-continued: Mapping and overcoming integration challenges for migrant children</b>				
<b>MIGRATION-09-2020: Narratives on migration and its impact: past and present</b>				
<b>MIGRATION-10-2020: Innovative solutions and evidence-based recommendations on migration</b>				
<b>Transformations socioéconomiques et culturelles dans le contexte de la quatrième révolution industrielle</b>				
<a href="#">TRANSFORMATIONS-01-2018: Research for inclusive growth: addressing the socioeconomic effects of technological transformations</a>	RIA	9 M€	Ouvert	13-mars-18
<a href="#">DT-TRANSFORMATIONS-02-2018-2019-2020: Transformative impact of disruptive technologies in public services</a>	RIA	9 M€	Ouvert	13-mars-18
		7 M€	6-nov-18	14-mars-19
<a href="#">TRANSFORMATIONS-03-2018-2019: Innovative solutions for inclusive and sustainable urban environments</a>	CSA	1,5 M€	Ouvert	13-mars-18
	RIA	6 M€	6-nov-18	14-mars-19



<a href="#">TRANSFORMATIONS-04-2019-2020: Innovative approaches to urban and regional development through cultural tourism</a>	RIA	9 M€	6-nov-18	14-mars-19
<a href="#">TRANSFORMATIONS-05-2018: Cities as a platform for citizen-driven innovation</a>	CSA	1 M€	Ouvert	13-mars-18
<a href="#">TRANSFORMATIONS-06-2018: Inclusive and sustainable growth through cultural and creative industries and the arts</a>	RIA	7,5 M€	Ouvert	13-mars-18
<a href="#">DT-TRANSFORMATIONS-07-2019: The impact of technological transformations on children and youth</a>	CSA	1,5 M€	6-nov-18	14-mars-19
	RIA	9 M€	6-nov-18	14-mars-19
<a href="#">TRANSFORMATIONS-08-2019: The societal value of culture and the impact of cultural policies in Europe</a>	RIA	9 M€	6-nov-18	14-mars-19
<a href="#">SU-TRANSFORMATIONS-09-2018: Social platform on endangered cultural heritage and on illicit trafficking of cultural goods</a>	CSA	1,5 M€	Ouvert	13-mars-18
<a href="#">DT-TRANSFORMATIONS-11-2019: Collaborative approaches to cultural heritage for social cohesion</a>	RIA	12 M€	6-nov-18	14-mars-19
<a href="#">DT-TRANSFORMATIONS-12-2018-2020: Curation of digital assets and advanced digitisation</a>	IA	10 M€	Ouvert	13-mars-18
<a href="#">TRANSFORMATIONS-13-2019: Using big data approaches in research and innovation policy making</a>	RIA	1,9 M€	6-nov-18	14-mars-19
<a href="#">TRANSFORMATIONS-14-2018: Supply and demand-oriented economic policies to boost robust growth in Europe – Addressing the social and economic challenges in Europe</a>	RIA	9 M€	Ouvert	13-mars-18
<b>TRANSFORMATIONS-04-2019-2020-continued - Innovative approaches to urban and regional development through cultural tourism</b>	<b>A définir (budget : 30 M€)</b>			
<b>TRANSFORMATIONS-10-2020 - Evolving European cultural symbols and identities</b>				
<b>TRANSFORMATIONS-15-2020 - ERA-Net CO-FUND</b>				
<b>Gouvernance pour le futur</b>				
<a href="#">GOVERNANCE-01-2019: Trust in governance</a>	RIA	9 M€	6-nov-18	14-mars-19
<a href="#">GOVERNANCE-02-2018-2019: Past, present and future of differentiation in European governance</a>	RIA	9 M€	Ouvert	13-mars-18
	CSA	1,5 M€	6-nov-18	14-mars-19
<a href="#">GOVERNANCE-03-2018: Addressing populism and boosting civic and democratic engagement</a>	RIA	9 M€	6-nov-18	14-mars-19
<a href="#">GOVERNANCE-04-2019: Enhancing social rights and EU citizenship</a>	RIA	9 M€	6-nov-18	14-mars-19
<a href="#">DT-GOVERNANCE-05-2018-2019-2020: New forms of delivering public goods and inclusive public services</a>	RIA	8 M€	6-nov-18	14-mars-19
	CSA	1,5 M€	Ouvert	13-mars-18
<a href="#">GOVERNANCE-06-2018: Trends and forward-looking scenarios in global governance</a>	RIA	6 M€	Ouvert	13-mars-18

<a href="#">GOVERNANCE-08-2018: Partnering for viability assessments of innovative solutions for markets outside Europe</a>	CSA	9 M€	Ouvert	13-mars-18
<a href="#">SU-GOVERNANCE-10-2019: Drivers and contexts of violent extremism in the broader MENA region and the Balkans</a>	RIA	9 M€	6-nov-18	14-mars-19
<a href="#">SU-GOVERNANCE-11-2018: Extreme ideologies and polarisation</a>	CSA	1,5 M€	Ouvert	13-mars-18
<a href="#">DT-GOVERNANCE-12-2019-2020: Pilot on using the European cloud infrastructure for public administrations</a>	IA	8 M€	6-nov-18	14-mars-19
<a href="#">DT-GOVERNANCE-13-2019: Digitisation, Digital Single Market and European culture: new challenges for creativity, intellectual property rights and copyright</a>	RIA	9 M€	6-nov-18	14-mars-19
<a href="#">GOVERNANCE-14-2018: ERA-Net Co-fund - Renegotiating democratic governance in times of disruptions</a>	ERA-NET Cofund	3 M€	Ouvert	13-mars-18
<a href="#">GOVERNANCE-15-2018: Taking lessons from the practices of interdisciplinarity in Europe</a>	CSA	1,5 M€	Ouvert	13-mars-18
<b>SU-GOVERNANCE-07-2020: The Common Foreign and Security Policy and the expanding scope of the EU's external engagement</b>	Indicatif	A définir (budget : 45 M€)		
<b>SU-GOVERNANCE-09-2020: Addressing radicalisation through social inclusion</b>	Indicatif			
<b>GOVERNANCE-15-2020 - International Dimension of Open Innovation</b>	Indicatif	A définir (budget : 10 M€)		
<b>Autres actions</b>				
<b>The European Capital of Innovation Award (iCapital)</b>	Prix	1,5 M€	Q1 2018	mi-2018
		1,5 M€	Q1 2019	mi-2019
		1,5 M€	Q1 2020	mi-2020
<b>Horizon Prize for Social Innovation in Europe</b>	Prix	2 M€	Q1 2017	Q1 2019

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**DÉFIS SOCIÉTAUX**

**Sociétés sûres**

<b>Titre</b>	<b>Type</b>	<b>Budget</b>	<b>Date d'ouverture</b>	<b>Date limite</b>
<b>Protéger les infrastructures en Europe et les personnes dans les smart cities européennes</b>				
<a href="#">SU-INFRA01-2018-2019-2020: Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe</a>	IA	24 M€	15-mars-18	23-août-18
		22 M€ 18 M€	A définir	
<a href="#">SU-INFRA02-2019: Security for Smart Cities and "soft" targets in Smart Cities</a>	IA	16 M€	15-mars-18	22-août-19
<b>Désastre - Des sociétés résilientes</b>				
<a href="#">SU-DRS01-2018-2019-2020: Human factors, and social, societal, and organisational aspects for disaster-resilient societies</a>	RIA	5 M€	15-mars-18	23-août-18
		5 M€	15-mars-19	22-août-19
<a href="#">SU-DRS02-2018-2019-2020: Technologies for first responders</a>	RIA	21 M€	15-mars-18	23-août-18
		21 M€	15-mars-19	22-août-19
<a href="#">SU-DRS03-2018-2019-2020: Pre-normative research and demonstration for disaster-resilient societies</a>	IA	6 M€	15-mars-18	23-août-18
		6 M€	15-mars-19	22-août-19
<a href="#">SU-DRS04-2019-2020: Chemical, biological, radiological and nuclear (CBRN) cluster</a>	RIA	10,5 M€	15-mars-19	22-août-19
<a href="#">SU-DRS05-2019: Methodical demonstration of novel concepts for the management of pandemic crises</a>	IA	10 M€	15-mars-19	22-août-19
<b>Lutte contre le terrorisme et le crime</b>				
<a href="#">SU-FCT01-2018-2019-2020: Human factors, and social, societal, and organisational aspects to solve issues in fighting against crime and terrorism</a>	RIA	10 M€	15-mars-18	23-août-18
		5 M€	15-mars-19	22-août-19
<a href="#">SU-FCT02-2018-2019-2020: Technologies to enhance the fight against crime and terrorism</a>	RIA	21 M€	15-mars-18	23-août-18
		21 M€	15-mars-19	
<a href="#">SU-FCT03-2018-2019-2020: Information and data stream management to fight against (cyber)crime and terrorism</a>	IA	8 M€	15-mars-18	23-août-18
		8 M€	15-mars-19	22-août-19
<b>SU-FCT04-2020: Explosives: detection, intelligence, forensics</b>	A définir			

Sécurité extérieure et aux frontières				
<a href="#">SU-BES01-2018-2019-2020: Human factors, and social, societal, and organisational aspects of border and external security</a>	RIA	10 M€	15-mars-18	23-août-18
		5 M€	15-mars-19	22-août-19
<a href="#">SU-BES02-2018-2019-2020: Technologies to enhance border and external security</a>	RIA	21 M€	15-mars-18	23-août-18
		21 M€	15-mars-19	22-août-19
<a href="#">SU-BES03-EBCGA-2018-2019-2020: Demonstration of applied solutions to enhance border and external security</a>	IA	10 M€	15-mars-18	23-août-18
		10 M€	15-mars-19	22-août-19
Problématiques générales				
<a href="#">SU-GM01-2018-2019-2020: Pan-European networks of practitioners and other actors in the field of security</a>	CSA	5 M€	15-mars-18	23-août-18
		10,5 M€	15-mars-19	22-août-19
<a href="#">SU-GM02-2018-2020: Strategic pre-commercial procurements of innovative, advanced systems to support security</a>	CSA	6 M€	15-mars-18	23-août-18
	COFUND	A définir		
<a href="#">SU-GM03-2018-2019-2020: Pre-commercial procurements of innovative solutions to enhance security</a>	COFUND	7 M€	15-mars-18	23-août-18
		7 M€	15-mars-19	22-août-19
Sécurité numérique				
<a href="#">SU-DS01-2018: Cybersecurity preparedness - cyber range, simulation and economics</a>	IA	16 M€	15-mars-18	23-août-18
<a href="#">SU-DS03-2019-2020: Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises</a>	IA	18 M€	15-mars-19	22-août-19
		10,8 M€	15-mars-20	27-août-20
<a href="#">SU-DS04-2018-2020: Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks</a>	IA	20 M€	15-mars-18	23-août-18
		20 M€	15-mars-20	27-août-20
<a href="#">SU-DS05-2018-2019: Digital security, privacy and accountability in critical sectors</a>	IA	8,5 M€	15-mars-18	23-août-18
		10 M€	15-mars-19	22-août-19
	RIA	10 M€	15-mars-19	22-août-19
<a href="#">SU-DS02-2020: Management of cyber-attacks and other risks</a>	IA	38 M€	15-mars-20	27-août-20