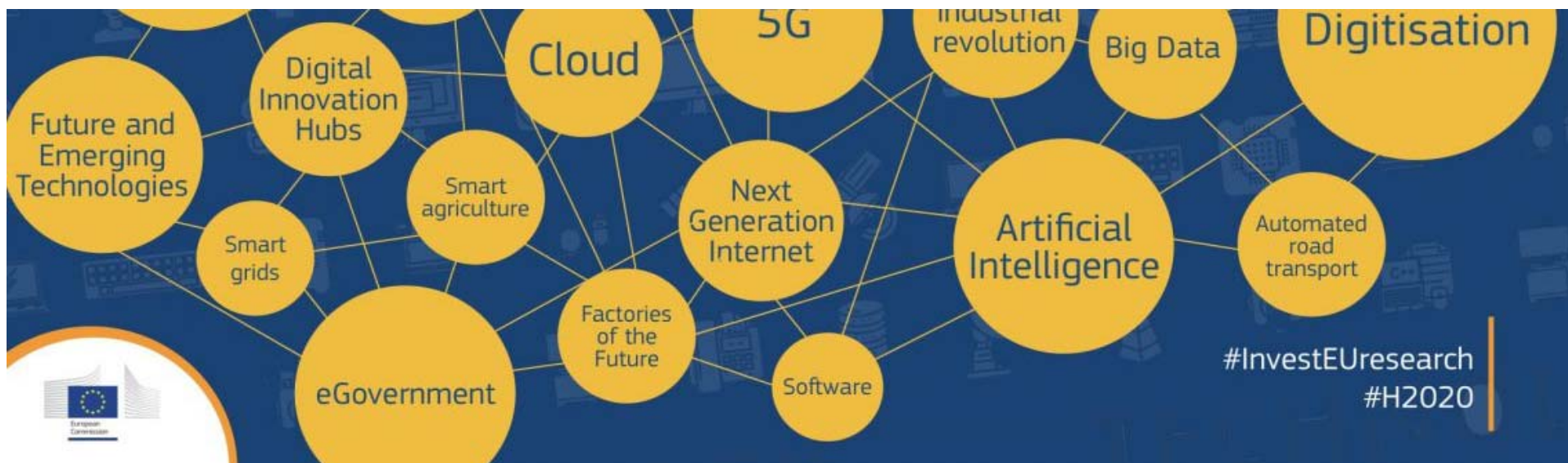# L'area ICT di Horizon 2020

26 novembre 2019

Francesco Laera   **Commissione europea - Rappresentanza a Milano**

Considerazioni generali

Temi prioritari 2018-2020

- **Intelligenza artificiale** → 400 milioni di euro su IA e robotica (pilot e test su ospedali smart, guida automatizzata, innovation hub per le PMI).

- Tecnologie digitali per rispondere alle **sfide della società** → 120 milioni di euro su salute, mobilità, energia, sicurezza.

- 5G → corridoi europei transfrontalieri.

- Next Generation Internet → Internet antropocentrico, aperto, decentralizzato, inclusivo, rispettoso della privacy.

- Blockchain → potenziale enorme per PA, imprese e società in generale.

European Commission

ICT nel programma di lavoro 2018-2020

- Riguarda **tutta** la catena dell'innovazione, dalla ricerca di base alla commercializzazione:

  Contributo dell'ICT alla ricerca "a monte" e all'innovazione → Pilastro "Eccellenze scientifiche", in particolare *future and emerging technologies* (FET) e *European research infrastrucures* (eInfrastructures)

  R&I su tecnologie ICT generiche → Pilastro "Leadership in Enabling and Industrial Technologies" (LEIT)

  R&I multidisciplinari che fanno uso delle ICT per rispondere alle sfide del futuro → Pilastro "Societal Challenges"

European Commission

Cosa cambia rispetto al passato? *(1/2)*

- Struttura del programma di lavoro resta in linea con quelle precedenti di Horizon 2020.

- Qualche novità:

  A) European Innovation Council (pilot) che raggruppa diversi schemi di sostegno all'innovazione *(SME Instrument, FTI, FET Open, Horizon Prizes)*

  • Approccio **bottom-up** per le attività di sostegno alle PMI innovative raggruppate all'interno dello SME Instrument;

  • FET Open combinerà ambizioni scientifiche di alto livello con implicazioni tecnologie concrete.

European Commission

Cosa cambia rispetto al passato? *(2/2)*

B) Focus areas →numero ristretto di grandi azioni che superano i confini dei sottoprogrammi specifici → allineamento bandi e sinergie con progetti in corso

- costruire un futuro a bassa emissione di CO_2 e resistente ai cambiamenti climatici → 3,7 miliardi €

- economia circolare → 1 miliardo €

- digitalizzazione e trasformazione dell'industria e dei servizi europei → 1,8 miliardi €

- sicurezza e cybersecurity → 1 miliardo €

European Commission

Bandi ICT in Horizon 2020

ICT in "Excellent science" *(1/2)*

Tecnologie del futuro e emergenti (FET)

- FET Open → 40% di tutto il budget FET di Horizon, bottom-up, parte del pilota European Innovation Council nel WP2018-20, copre tutti i settori tecnologici

- FET Proactive →sostegno alle tecnologie emergenti. Due bandi: High Performance Computing e Boosting emerging technologies

- FET flagships → Oltre ai progetti Graphene e Human Brain si aggiunge un terza su Quantum Technologies

European Commission

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020

Excellent Science

Future and Emerging Technologies (FET)

FET Open: novel ideas for radically new technologies

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
FETOPEN-01-2018-2019-2020	FET-Open Challenging Current Thinking	181.2 163.3 354.2	07/11/17	16/05/18	24/01/19 18/09/19	13/05/20
FETOPEN-02-2018	FET-Open Coordination and Support Actions	2.0	07/11/17	11/04/18		
FETOPEN-03-2018-2019-2020	FET Innovation Launchpad	2.5 2.7 3.0	07/11/17 07/11/17 09/10/19	16/10/18	08/10/19	14/10/20

FET Proactive topics in the EIC Enhanced Pilot (2019-2020)

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
FETPROACT-EIC-07-2020	FET Proactive: emerging paradigms and communities	50.0	19/11/19			22/04/20
FETPROACT-EIC-08-2020	Environmental Intelligence	18.0	19/11/19			22/04/20

The topic(s) below are not part of the European Innovation Council Enhanced Pilot

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
FETPROACT-09-2020	Neuromorphic computing technologies	15.0	19/11/19			22/04/20

FET Proactive - High Performance Computing

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
FETHPC-01-2018	International Cooperation on HPC	4.0	01/02/18	15/05/18		
FETHPC-04-2020	International Cooperation on HPC	0.5	19/11/19			22/04/20

FET Flagships - Tackling grand interdisciplinary science and technology challenges

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
FETFLAG-04-2020	Quantum Flagship - ERA-NET Cofund	15.0	06/02/20			07/05/20

ICT in "Excellent science" *(2/2)*

Infrastrutture di ricerca (FET)

- realizzare lo European Open Science Cloud

- integrazione e apertura tra le infrastrutture di ricerca di interesse europeo

- infrastruttura dei dati europea → HPC

- dalla scienza aperta all'innovazione aperta

European Commission

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
Research Infrastructures						
Implementing the European Open Science Cloud						
INFRAEOSC-03-2020	Integration and consolidation of the existing pan-European access mechanism to public research infrastructures and commercial services through the EOSC Portal	40.9	19/11/19			22/04/20
INFRAEOSC-07-2020	Increasing the service offer of the EOSC Portal	24.0	19/11/19			22/04/20
Integrating and opening research infrastructures of European interest						
INFRAIA-01-2018-2019	Integrating Activities for Advanced Communities	101.5 125.0	05/12/17 14/11/18	22/03/18	20/03/19	
INFRAIA-02-2020	Integrating Activities for Starting Communities	115.0	28/11/19			17/03/20
INFRAIA-03-2020	Pilot for a new model of Integrating Activities	45.0	28/11/19			17/03/20

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
Demonstrating the role of Research Infrastructures in the translation of Open Science into Open Innovation						
INFRAINNOV-01-2019	Stimulate the innovation potential of SMEs	8.0	16/10/18		29/01/19	
INFRAINNOV-02-2019	Network of research infrastructure Industrial Liaison and Contact Officers	1.5	14/11/18		20/03/19	
INFRAINNOV-03-2020	Co-Innovation platform for research infrastructure technologies	35.0	28/11/19			17/03/20
INFRAINNOV-04-2020	Innovation pilots	30.0	28/11/19			17/03/20

European Commission

ICT in "Leadership in Enabling and Industrial Technologies – LEIT"

- Parti dedicate a ICT sono state riviste e allineate alle priorità nel campo del digitale:

  IA e digitalizzazione dell'industria europea e dei servizi

  Infrastruttura dei dati europea (EDI)

  5G

  Next Generation Internet (NGI)

  Cybersecurity

- tre bandi previsti dal WP2018-20 (**due** nel 2020):

  ICT

  Digitalizzazione e trasformazione industria e servizi

European Commission

Industrial Leadership

LEIT - Information and Communication Technologies

Information and Communication Technologies

Artificial Intelligence and Technologies for Digitising European Industry and Economy

ICT-46-2020	Robotics in Application Areas and Coordination & Support	83.0	19/11/19			22/04/20
ICT-47-2020	Research and Innovation boosting promising robotics applications	20.0	19/11/19			22/04/20
ICT-48-2020	Towards a vibrant European network of AI excellence centres	50.0	09/07/19			13/11/19
ICT-49-2020	Artificial Intelligence on demand platform	20.0	19/11/19			22/04/20
ICT-38-2020	Artificial intelligence for manufacturing	48.0	09/07/19			16/01/20
ICT-36-2020	Disruptive photonics technologies	47.5	19/11/19			22/04/20
ICT-37-2020	Advancing photonics technologies and application driven photonics components and the innovation ecosystem	48.0	19/11/19			22/04/20
ICT-50-2020	Software Technologies	30.0	09/07/19			16/01/20

European Data Infrastructure: HPC, Big Data and Cloud technologies

ICT-51-2020	Big Data technologies and extreme-scale analytics	31.5	09/07/19			16/01/20
ICT-40-2020	Cloud Computing: towards a smart cloud computing continuum	20.0	19/11/19			22/04/20

5G

ICT-52-2020	5G PPP – Smart Connectivity beyond 5G	55.0	19/11/19			22/04/20
ICT-41-2020	5G PPP – 5G innovations for verticals with third party services	49.0	19/11/19			22/04/20
ICT-42-2020	5G PPP – 5G core technologies innovation	49.0	09/07/19			16/01/20
ICT-53-2020	5G PPP – 5G for Connected and Automated Mobility (CAM)	30.0	09/07/19			13/11/19

Next Generation Internet (NGI)

ICT-54-2020	Blockchain for the Next Generation Internet	20.0	09/07/19			16/01/20
ICT-55-2020	Interactive Technologies	17.0	09/07/19			13/11/19
ICT-56-2020	Next Generation Internet of Things	48.5	09/07/19			16/01/20
ICT-57-2020	An empowering, inclusive Next Generation Internet	7.0	19/11/19			22/04/20
ICT-44-2020	Next Generation Media	17.5	09/07/19			16/01/20

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
International Cooperation activities						
ICT-58-2020	International partnership building between European and African innovation hubs	11.0	19/11/19			22/04/20
Digitising and transforming European industry and services: digital innovation hubs and platforms						
Support to Hubs						
DT-ICT-04-2020	Photonics Innovation Hubs	19.0	19/11/19			22/04/20
Platforms and Pilots						
DT-ICT-07-2018-2019	Digital Manufacturing Platforms for Connected Smart Factories	48.0 47.0	31/10/18 16/10/18	17/04/18	02/04/19	
DT-ICT-08-2019	Agricultural digital integration platforms	30.0	26/07/18	14/11/18		
DT-ICT-09-2020	Digital service platforms for rural economies	30.0	19/11/19			22/04/20
DT-ICT-10-2018-19	Interoperable and smart homes and grids	30.0	26/07/18	14/11/18		
DT-ICT-11-2019	Big data solutions for energy	30.0	16/10/18		02/04/19	
DT-ICT-12-2020	The smart hospital of the future	40.0	19/11/19			22/04/20

ICT in "Societal challenges"

Apporto dal mondo ICT atteso in 7 sfide per la società

- SC1: Salute, cambio demografico e benessere

- SC2: Sicurezza alimentare, agricoltura sostenibile, bioeconomia

- SC3: Energia sicura, pulita ed efficiente

- SC4: Trasporti intelligenti, "verdi" e integrati

- SC5: Clima, ambiente, uso efficiente delle risorse

- SC6: L'Europa in un mondo che cambia

- SC7: Società sicure

European Commission

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
Societal Challenges						
Health, demographic change and wellbeing						
Better Health and care, economic growth and sustainable health systems						
Personalised medicine						
SC1-BHC-05-2018	International flagship collaboration with Canada for human data storage, integration and sharing to enable personalised medicine approaches	40.0	07/11/17	18/04/18		
SC1-BHC-06-2020	Digital diagnostics – developing tools for supporting clinical decisions by integrating various diagnostic data	40.0	04/07/19			07/04/20
SC1-HCO-01-2018-2019-2020	Actions in support of the International Consortium for Personalised Medicine	8.0 / 4.0	07/11/17 / 26/07/18	18/04/18	16/04/19	
SC1-HCO-02-2018	Data integration and data-driven in-silico models for enabling personalised medicine - a European standardization framework	2.0	07/11/17	18/04/18		
Innovative health and care industry						
SC1-HCO-18-2020	Developing methodological approaches for improved clinical investigation and evaluation of high-risk medical devices	2.0	04/07/19			07/04/20
Infectious diseases and improving global health						
SC1-BHC-13-2019	Mining big data for early detection of infectious disease threats driven by climate change and other factors	30.0	26/07/18		16/04/19	
SC1-BHC-20A-2020	Pre-commercial procurement (PCP) for integrated care solutions	25.0 (incl. one other topic)	04/07/19			07/04/20
Supporting the digital transformation in health and care						
SC1-DTH-12-2020	Use of Real-World Data to advance research on the management of complex chronic conditions	41.0	04/07/19			07/04/20
SC1-DTH-13-2020	Implementation research for scaling up and transfer of innovative solutions involving digital tools for people-centred care	20.0	04/07/19			24/09/19 07/04/20

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
Digital transformation in Health and Care						
SC1-DTH-01-2019	Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment	35.0	16/10/18			
SC1-DTH-02-2020	Personalised early risk prediction, prevention and intervention based on Artificial Intelligence and Big Data technologies	32.0	19/11/19			22/04/20
SC1-DTH-03-2018	Adaptive smart working and living environments supporting active and healthy ageing	25.0	07/11/17	24/04/18		
SC1-DTH-04-2020	International cooperation in smart living environments for ageing people	8.0	19/11/19			22/04/20
SC1-DTH-05-2019	Large scale implementation of digital innovation for health and care in an ageing society	10.0	16/10/18		24/04/19	
SC1-DTH-06-2020	Accelerating the uptake of computer simulations for testing medicines and medical devices	32.0	19/11/19			22/04/20
SC1-DTH-14-2020	Pre-commercial Procurement for Digital Health and Care Solutions	9.0	19/11/19			22/04/20
SC1-HCC-08-2020	Scaling up innovation for active and healthy ageing	2.0	19/11/19			22/04/20
SC1-HCC-09-2020	Supporting deployment of eHealth in low and lower middle income countries in Africa for better health outcomes	2.0	19/11/19			22/04/20
Trusted digital solutions and Cybersecurity in Health and Care						
Focus Area on Digitising and transforming European industry and services						
DT-TDS-01-2019	Smart and healthy living at home	60.0	26/07/18	14/11/18		
DT-TDS-04-2020	AI for Genomics and Personalised Medicine	35.0	19/11/19			22/04/20

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy						
Food and Natural Resources						
FNR-02-2020	Developing long-term monitoring and evaluation frameworks for the Common Agricultural Policy	2.0	15/10/19			22/01/20
Secure, Clean and Efficient Energy						
Building a low-carbon, climate resilient future: secure, clean and efficient energy						
Buildings in energy transition (B4E)						
LC-SC3-B4E-3-2020	Upgrading smartness of existing buildings through innovations for legacy equipment	8.0	05/03/20			10/09/20
LC-SC3-B4E-5-2020	Integrated design concepts for energy-efficient ICT in buildings	3.0	16/07/19			15/01/20
LC-SC3-B4E-6-2020	Big data for buildings	12.0	16/07/19			15/01/20
LC-SC3-B4E-7-2020	European building stock data 4.0	4.0	16/07/19			15/01/20
LC-SC3-B4E-10-2020	Self-assessment and self-optimisation of buildings and appliances for a better energy performance	6.0	16/07/19			15/01/20
LC-SC3-B4E-14-2020	Enabling next-generation of smart energy services valorising energy efficiency and flexibility at demand-side	6.0	05/03/20			10/09/20
Global leadership in renewables						
LC-SC3-RES-31-2020	Offshore wind basic science and balance of plant	8.0	03/12/19			21/04/20
Smart and clean energy for consumers						
LC-SC3-EC-1-2018-2019-2020	The role of consumers in changing the market through informed decision and collective actions	5.0 / 5.0	25/01/18 / 24/01/19	04/09/18	03/09/19	
LC-SC3-EC-3-2020	Consumer engagement and demand response	16.0	03/09/19			29/01/20

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
Smart citizen-centred energy system						
LC-SC3-ES-1-2019	Flexibility and retail market options for the distribution grid	37.3	05/09/18		05/02/19	
LC-SC3-ES-2-2019	Solutions for increased regional cross-border cooperation in the transmission grid	25.0	05/09/18		05/02/19	
LC-SC3-ES-3-2018-2020	Integrated local energy systems (Energy islands)	26.3 15.0	05/12/17 03/09/19	05/04/18		29/01/20
LC-SC3-ES-4-2018-2020	Decarbonising energy systems of geographical Islands	19.0 40.0	05/12/17 03/09/19	05/04/18		29/01/20
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	30.0 22.0	05/12/17 03/09/19	05/04/18		29/01/20
LC-SC3-ES-6-2019	Research on advanced tools and technological development	25.3	05/09/18		05/02/19	
LC-SC3-ES-10-2020	DC – AC/DC hybrid grid for a modular, resilient and high RES share grid development	14.0	03/09/19			29/01/20
Smart Cities and Communities						
LC-SC3-SCC-1-2018-2019-2020	Smart Cities and Communities	43.0 73.0	05/12/17	05/04/18	05/02/19	
LC-SC3-SCC-2-2020	Positive Energy Districts and Neighbourhoods for urban energy transitions	5.0	05/05/20			01/09/20

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
Smart, green and integrated transport						
Mobility for growth						
Building a Low-Carbon, Climate Resilient Future: Low-Carbon and Sustainable Transport						
LC-MG-1-12-2020	Cities as climate-resilient, connected multimodal nodes for smart and clean mobility: new approaches towards demonstrating and testing innovative solutions	18.0	03/09/19			09/01/20 *08/09/20*
Safe, integrated and resilient transport systems						
MG-2-6-2019	Moving freight by Water: Sustainable Infrastructure and Innovative Vessels	30.0	05/09/18		16/01/19 *12/09/19*	
MG-2-7-2019	Safety in an evolving road mobility environment	8.0	05/09/18		16/01/19 *12/09/19*	
MG-2-11-2020	Network and traffic management for future mobility	20.0	03/09/19			09/01/20 *08/09/20*
MG-2-13-2020	Coordination and support for an integrated freight transport and logistics system	1.0	03/12/19			21/04/20
Global leadership and competitiveness						
MG-3-1-2018	Multidisciplinary and collaborative aircraft design tools and processes	12.0	31/10/17	30/01/18 *19/09/18*		
MG-3-2-2018	The Autonomous Ship	20.0	31/10/17	30/01/18 *19/09/18*		
MG-3-4-2020	Innovative electric network architectures and systems, optimising global energy, electrical power, data and communication for aviation	10.0	03/12/19			21/04/20
MG-3-6-2020	Towards sustainable urban air mobility	15.0	03/12/19			21/04/20
MG-3-7-2020	Improved Production and Maintenance Processes in Shipyards	15.0	03/12/19			21/04/20
Accounting for the people						
MG-4-5-2019	An inclusive digitally interconnected transport system meeting citizens' needs	7.0	04/09/18		24/04/19	
MG-4-7-2020	Digitalisation of the transport system: data sharing	3.0	03/12/19			21/04/20
MG-4-8-2020	Advanced research methods and tools in support of transport/mobility researchers, planners and policy makers	3.0	03/12/19			21/04/20

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
Digitising and Transforming European Industry and Services: Automated Road Transport						
DT-ART-05-2020	Efficient and safe connected and automated heavy-duty vehicles in real logistics operations	20.0	03/12/19			21/04/20
DT-ART-06-2020	Large-scale, cross-border demonstration of connected and highly automated driving functions for passenger cars	30.0	03/12/19			21/04/20
Climate action, environment, resource efficiency and raw materials						
Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement						
Decarbonisation						
LC-CLA-11-2020	Innovative nature-based solutions for carbon neutral cities and improved air quality	30.0	12/11/19			13/02/20 *03/09/20*
Climate adaptation, impacts and services						
LC-CLA-12-2020	Advancing climate services	22.0	12/11/19			13/02/20 *03/09/20*
Inter-relations between climate change, biodiversity and ecosystem services						
LC-CLA-16-2020	Multi-hazard risk management for risk-informed decision-making in the E.U.	5.0	12/11/19			13/02/20 *03/09/20*
Earth Observation						
LC-CLA-19-2020	Integrated GEOSS climate applications to support adaptation and mitigation measures of the Paris Agreement	10.0	12/11/19			13/02/20 *03/09/20*
Greening the economy in line with the Sustainable Development Goals (SDGs)						
Protecting and leveraging the value of our natural and cultural assets: Nature-based solutions, disaster risk reduction and natural capital accounting						
SC5-33-2020	Monitoring ecosystems through research, innovation and	3.0	12/11/19			13/02/20

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
Europe in a changing world - inclusive, innovative and reflective Societies						
Socioeconomic and cultural transformations in the context of the fourth industrial revolution						
DT-TRANSFORMATIONS-02-2018-2019-2020	Transformative impact of disruptive technologies in public services	9.0 7.0 11.0	07/11/17 06/11/18 05/11/19	13/03/18	14/03/19	12/03/20
DT-TRANSFORMATIONS-20-2020	European Competence Centre for the preservation and conservation of Monuments and Site	3.0	05/11/19			12/03/20
DT-TRANSFORMATIONS-21-2020	Mentoring scheme for schools: mainstreaming innovation by spreading the advanced ICT-based teaching practices to a wide circle of schools	2.0	05/11/19			12/03/20
DT-TRANSFORMATIONS-23-2020	To set up a digital accessibility observatory as a forum to take stock of market and technological developments, monitor progress in digital accessibility and provide opportunities for exchange of best practices	1.5	05/11/19			12/03/20
Governance for the future						
DT-GOVERNANCE-05-2018-2019-2020	New forms of delivering public goods and inclusive public services	1.5 8.0 20.0	07/11/17 06/11/18 05/11/19	13/03/18	14/03/19	12/03/20
DT-GOVERNANCE-12-2019-2020	Pilot on using the European cloud infrastructure for public administrations	8.0 10.0	06/11/18 05/11/19		14/03/19	12/03/20
DT-GOVERNANCE-13-2019	Digitisation, Digital Single Market and European culture: new challenges for creativity, intellectual property rights and copyright	9.0	06/11/18		14/03/19	
DT-GOVERNANCE-22-2020	Citizen-centric public services in local and regional administrations	1.5	05/11/19			12/03/20

European Commission

Secure societies - Protecting freedom and security of Europe and its citizens						
Protecting the infrastructure of Europe and the people in the European smart cities						
SU-INFRA01-2018-2019-2020	Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe	24.0￼22.0￼20.7	15/03/18￼14/03/19￼12/03/20	23/08/18	22/08/19	27/08/20
SU-INFRA02-2019	Security for smart and safe cities, including for public space	16.0	14/03/19		22/08/19	
Artificial Intelligence and security: providing a balanced assessment of opportunities and challenges for Law Enforcement in Europe						
SU-AI01-2020	Developing a research roadmap regarding Artificial Intelligence in support of Law Enforcement	1.5	12/03/20			27/08/20
SU-AI02-2020	Secure and resilient Artificial Intelligence technologies, tools and solutions in support of Law Enforcement and citizen protection, cybersecurity operations and prevention and protection against adversarial Artificial Intelligence	17.0	12/03/20			27/08/20
SU-AI03-2020	Human factors, and ethical, societal, legal and organisational aspects of using Artificial Intelligence in support of Law Enforcement	1.5	12/03/20			27/08/20
Security						
Disaster-Resilient Societies						
SU-DRS02-2018-2019-2020	Technologies for first responders	28.0￼21.0￼21.0	15/03/18￼14/03/19￼12/03/20	23/08/18	22/08/19	27/08/20
Fight against Crime and Terrorism						
SU-FCT02-2018-2019-2020	Technologies to enhance the fight against crime and terrorism	21.0￼28.1￼28.0	15/03/18￼14/03/19￼12/03/20	23/08/18	22/08/19	27/08/20
SU-FCT03-2018-2019-2020	Information and data stream management to fight against (cyber)crime and terrorism	8.0￼8.0￼8.0	15/03/18￼14/03/19￼12/03/20	23/08/18	22/08/19	27/08/20
Border and External Security						
SU-BES02-2018-2019-2020	Technologies to enhance border and external security	21.0￼21.0￼21.0	15/03/18￼14/03/19￼12/03/20	23/08/18	22/08/19	27/08/20
SU-BES03-2018-2019-2020	Demonstration of applied solutions to enhance border and external security	10.0￼10.0￼10.0	15/03/18￼14/03/19￼12/03/20	23/08/18	22/08/19	27/08/20

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
Digital security						
Cybersecurity, Digital Privacy and data protection						
SU-DS01-2018	Cybersecurity preparedness - cyber range, simulation and economics	16.0	15/03/18	23/08/18		
SU-DS02-2020	Intelligent security and privacy management	38.0	12/03/20			27/08/20
SU-DS03-2019-2020	Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises	18.0 10.8	14/03/19 12/03/20		22/08/19	27/08/20
SU-DS04-2018-2020	Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches	20.0 20.0	15/03/18 12/03/20	23/08/18		27/08/20

ICT nel *pilot* European Innovation Council

EIC Accelerator Pilot (Strumento per le PMI)

- completamente bottom-up, aperto alle PMI innovative

- bando aperto con 4 scadenze all'anno

Fast Track to Innovation (FTI)

- completamente bottom-up, aperto a tutti i tipi di partecipanti

- promuove le attività innovative close-to-market

Topic ID	Topic title	Budget (M€)	Opening	Deadline 2018	Deadline 2019	Deadline 2020
European Innovation Council (EIC) Pilot						
EIC Accelerator pilot (SME Instrument)						
EIC-SMEInst-2018-2020	SME instrument	479.74	07/11/17	Phase 1: 08/02/18 03/05/18 05/09/18 07/11/18 Phace 2: 10/01/18 14/03/18 23/05/18 10/10/18		
		689.26	07/11/17		Phase 1: 13/02/19 07/05/19 05/09/19 Phase 2: 09/01/19 03/04/19 05/06/19 09/10/19	
		654.00	07/11/17			Phase 2: 08/01/20 18/03/20 19/05/20 07/10/20
Fast Track to Innovation (FTI)						
EIC-FTI-2018-2020	Fast Track to Innovation (FTI)	100.0	07/11/17	21/02/18 31/05/18 23/10/18		
		100.0	07/11/17		21/02/19 23/05/19 22/10/19	
		100.0	07/11/17			19/02/20 09/06/20 27/10/20

Informazioni su come partecipare

- Sito ufficiale Horizon 2020

ec.europa.eu/programmes/horizon2020/en

- Programma di lavoro 2018-2020 Horizon 2020

ec.europa.eu/research/participants/data/ref/h2020/wp /2018-2020/main/h2020-wp1820-leit-ict_en.pdf

- Bandi ICT

ec.europa.eu/newsroom/dae/document.cfm?doc_id=61592

- Punti di contatto nazionali → APRE

www.apre.it

European Commission