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## ICT in HORIZON 2020 WP 2018-2020

## INTRODUCTION/SCOPE

**Introduction WP 2018-20** 

Introduction to Leadership in enabling and industrial technologies (LEITs) WP 2018-20

Information and communication technologies (ICT) WP 2018-20

Dissemination, Exploitation and Evaluation WP 2018-20

General annexes to the Work Programme 2018-2020

Legal basis: Horizon 2020 Regulation of Establishment

<u>Legal basis: Horizon 2020 Rules for Participation</u>

Legal basis: Horizon 2020 Specific Programme

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| Tania ID | Taniakisla  | Dudget (NAC) | 0       | Deadline | Deadline |
|----------|-------------|--------------|---------|----------|----------|
| Topic ID | Topic title | Budget (M€)  | Opening | 2019     | 2020     |

| <b>Excellent Science</b>  |  |       |          |          |          |  |  |  |
|---|--|-------|----------|----------|----------|--|--|--|
| Future and Emerging Technologies (FET)  |  |       |          |          |          |  |  |  |
| FET Open: novel ideas for radically new technologies                                      |  |       |          |          |          |  |  |  |
| FETOPEN-01-2018-2019-<br>2020   | FET-Open Challenging Current Thinking                    | 354.2 | 07/11/17 | 18/09/19 | 13/05/20 |  |  |  |
| FETOPEN-03-2018-2019-<br>2020   | FET Innovation Launchpad                                 | 3.0   | 09/10/19 | 08/10/19 | 14/10/20 |  |  |  |
| FET Proactive topics in th  | e EIC Enhanced Pilot (2019-2020)                         |       |          | ·        |          |  |  |  |
| FETPROACT-EIC-05-2019<br>(published in the EIC work<br>programme part of Horizon<br>2020) | FET Proactive: emerging paradigms and communities        | 87.4  | 19/03/19 | 08/10/19 |          |  |  |  |
| FETPROACT-EIC-06-2019<br>(published in the EIC work<br>programme part of Horizon<br>2020) | EIC Transition to Innovation Activities                  | 26.0  | 19/03/19 | 08/10/19 |          |  |  |  |
| 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 no   | t part of the European Innovation Council Enhanced Pilot |       | <u>'</u> |          |          |  |  |  |
| FETPROACT-09-2020   | Neuromorphic computing technologies                      | 15.0  | 19/11/19 |          | 22/04/20 |  |  |  |
| FET Proactive - High Perfo  | ormance Computing  |       | <u>'</u> | ,        |          |  |  |  |
| FETHPC-04-2020  | International Cooperation on HPC                         | 0.5   | 19/11/19 |          | 22/04/20 |  |  |  |
| FET Flagships - Tackling g  | rand interdisciplinary science and technology challenges |       |          | ·        |          |  |  |  |
| FETFLAG-04-2020   | Quantum Flagship - ERA-NET Cofund                        | 15.0  | 06/02/20 |          | 07/05/20 |  |  |  |
| FETFLAG-05-2020   | Complementary call on Quantum Computing                  | 19.7  | 09/07/19 |          | 13/11/19 |  |  |  |
| FETFLAG-06-2020   | International Cooperation on Quantum Technologies        | 0.5   | 09/07/19 |          | 13/11/19 |  |  |  |
| FETFLAG-07-2020   | Training and Education on Quantum Technologies           | 0.3   | 09/07/19 |          | 13/11/19 |  |  |  |

| Research Infrastructure                      | 25   |                 |          |          |  |  |
|--|--|-----------------|----------|----------|--|--|
| 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 openin                       | g research infrastructures of European interest  |                 |          |          |  |  |
| 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 |  |  |
| European Data Infrastr                       | ucture   |                 |          |          |  |  |
| INFRAEDI-05-2020                             | Centres of Excellence in exascale computing  | 20.0            | 09/07/19 | 13/11/19 |  |  |
| Demonstrating the role                       | of Research Infrastructures in the translation of Open Science in  | to Open Innovat | ion      |          |  |  |
| 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 |  |  |



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| Industrial Lead         | ershi <b>p</b>  |           |  |          |
|-------------------------|---|-----------|--|----------|
| LEIT - Information an   | d Communication Technologies  |           |  |          |
| Information and Con     | nmunication 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 Infras    | structure: HPC, Big Data and Cloud technologies   |           |  | 1        |
| 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 Inte    | ernet (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 |
| Cross-cutting activiti  | es  |           |  |          |
| ICT-45-2020             | Reinforcing European presence in international ICT standardisation:<br>Standardisation Observatory and Support Facility | 4.0       | 09/07/19                                       | 13/11/19 |
| International Cooper    | ration activities   |           |  |          |
| ICT-58-2020             | International partnership building between European and African innovation hubs   | 11.0      | 19/11/19                                       | 22/04/20 |
| Digitising and transfo  | orming European industry and services: digital innovation hubs and  | platforms |  |          |
| Support to Hubs         |   |           |  |          |
| DT-ICT-03-2020          | I4MS (phase 4) - uptake of digital game changers and digital manufacturing platforms                                    | 71.0      | 09/07/19                                       | 13/11/19 |
| DT-ICT-04-2020          | Photonics Innovation Hubs   | 19.0      | 19/11/19                                       | 22/04/20 |
| DT-ICT-05-2020          | Big Data Innovation Hubs  | 30.5      | 09/07/19                                       | 13/11/19 |
| Platforms and Pilots    | - '   |           | <u>ı                                      </u> | 1        |
| DT-ICT-09-2020          | Digital service platforms for rural economies   | 30.0      | 19/11/19                                       | 22/04/20 |
| DT-ICT-12-2020          | The smart hospital of the future  | 40.0      | 19/11/19                                       | 22/04/20 |
| Cybersecurity           |   |           | ,  | <u> </u> |
| SU-ICT-02-2020          | Building blocks for resilience in evolving ICT systems  | 47.0      | 25/07/19                                       | 19/11/19 |



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| Foundations for tomo             | rrow's industry  |                                  |          |                       |                                 |
|----------------------------------|--|----------------------------------|----------|-----------------------|---------------------------------|
| Materials characterisa           | ition and computational modelling  |                                  |          |                       |                                 |
| DT-NMBP-11-2020                  | Open Innovation Platform for Materials Modelling   | 12.0                             | 03/07/19 |                       | 05/02/20                        |
| ndustry Commons                  |  |                                  | <b>'</b> | <b>'</b>              |                                 |
| OT-NMBP-40-2020                  | Creating an open market place for industrial data  | 4                                | 03/07/19 |                       | 12/12/19<br>14/05/20 – 2nd stag |
| Transforming Europea             | n Industry   |                                  |          |                       |                                 |
| actories of the Future           | 2  |                                  |          |                       |                                 |
| DT-NMBP-18-2019                  | Materials, manufacturing processes and devices for organic and large area electronics    | 20.0                             | 16/10/18 | 03/09/19<br>2nd stage |                                 |
| DT-NMBP-19-2019                  | Advanced materials for additive manufacturing  | 20.4                             | 16/10/18 | 03/09/19<br>2nd stage |                                 |
| DT-FOF-07-2020                   | Assembly of micro parts  | 100                              |          |                       |                                 |
| OT-FOF-09-2020<br>OT-FOF-11-2020 | Energy-efficient manufacturing system management  Quality control in smart manufacturing | (incl. one other topic)          | 03/07/19 |                       | 05/02/20                        |
| Biotechnology                    |  | . ,                              | <b>'</b> | <b>'</b>              |                                 |
| BIOTEC-07-2020                   | Multi-omics for genotype-phenotype associations  | 56<br>(incl. one other<br>topic) | 03/07/19 |                       | 12/12/19<br>14/05/20 – 2nd stag |
| Industrial sustainabilit         | ty   |                                  |          |                       |                                 |
| Sustainable Process In           | dustry (SPIRE)   |                                  |          |                       |                                 |
| .C-SPIRE-08-2020                 | Novel high performance materials and components  | 31.9                             | 03/07/19 |                       | 05/02/20                        |
| DT-SPIRE-11-2020                 | Artificial Intelligence and Big Data Technologies for Process Industries                 | 0.6                              | 03/07/19 |                       | 05/02/20                        |
| nergy-efficient buildi           | ings (EEB)   |                                  |          |                       |                                 |
| _C-EEB-07-2020                   | Smart Operation of Proactive Residential Buildings                                       | 52.5                             | 00/07/10 |                       | 05/00/05                        |
| LC-EEB-08-2020                   | Digital Building Twins   | (incl. one other topic)          | 03/07/19 |                       | 05/02/20                        |

| LEIT - Space               |  |      |          |          |          |  |  |
|----------------------------|--|------|----------|----------|----------|--|--|
| Space                      |  |      |          |          |          |  |  |
| Artificial Intelligence ar | nd Space   |      |          |          |          |  |  |
| DT-SPACE-25-EO-2020        | Big data technologies and Artificial Intelligence for Copernicus | 10.0 | 05/11/19 |          | 05/03/20 |  |  |
| Space business, entrep     | reneurship, outreach and education                               | •    |          | ·        |          |  |  |
| DT-SPACE-26-BIZ-2020       | Space hubs (support to start-ups)                                | 2.0  | 05/11/19 |          | 05/03/20 |  |  |
| Space technologies, sci    | ence and exploration   |      |          |          |          |  |  |
| SPACE-29-TEC-2020          | Satellite communication technologies                             | 9.0  | 05/11/19 |          | 05/03/20 |  |  |
| SPACE-30-SCI-2020          | Scientific data exploitation                                     | 9.0  | 05/11/19 |          | 05/03/20 |  |  |
| Artificial Intelligence ar | nd Space   |      |          |          |          |  |  |
| SPACE-27-TEC-2020          | SRC - Space robotics technologies                                | 9.0  | 05/11/19 |          | 05/03/20 |  |  |
| EGNSS market uptake        | EGNSS market uptake  |      |          |          |          |  |  |
| DT-SPACE-EGNSS-2-          | EGNSS applications fostering digitisation                        | 4.0  | 16/10/18 | 05/03/19 |          |  |  |
| 2019-2020                  |  |      | ,,       | 22/00/25 |          |  |  |

| Societal Challenges  |   |      |          |  |          |  |
|--|---|------|----------|--|----------|--|
| Health, demographic change and wellbeing                               |   |      |          |  |          |  |
| Better Health and care, economic growth and sustainable health systems |   |      |          |  |          |  |
| Personalised medicir   | ne  |      |          |  |          |  |
| 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 |  |
| Innovative health and care industry                                    |   |      |          |  |          |  |



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| 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 ar   | nd improving global health   |                                    |                |   |
| SC1-BHC-20A-2020         | Pre-commercial procurement (PCP) for integrated care solutions   | 25.0<br>(incl. one other<br>topic) | 04/07/19       | 07/04/20                                |
| Supporting the digita    | l 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<br><b>07/04/20 – 2nd stage</b> |
| Digital transformation   | n in Health and Care   |                                    |                |   |
| 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-04-2020          | International cooperation in smart living environments for ageing people   | 8.0                                | 19/11/19       | 22/04/20                                |
| 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-06-2020          | Coordination and Support to better data and secure cross-border digital infrastructures building on European capacities for genomics and personalised medicine | 4.0                                | 09/07/19       | 13/11/19                                |
| SC1-HCC-07-2020          | Support for European eHealth Interoperability roadmap for deployment   | 3.0                                | 09/07/19       | 13/11/19                                |
| 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 solution | ons and Cybersecurity in Health and Care   |                                    |                |   |
| Focus Area on Digitisi   | ing and transforming European industry and services  |                                    |                |   |
| DT-TDS-04-2020           | Al for Genomics and Personalised Medicine  | 35.0                               | 19/11/19       | 22/04/20                                |
| DT-TDS-05-2020           | Al for Health Imaging  | 35.0                               | 09/07/19       | 13/11/19                                |
|                          |  |                                    |                |   |
| Food security, sustain   | nable agriculture and forestry, marine and maritime and inland wa  | ter research and                   | the bioeconomy |   |
| Food and Natural Res     |  |                                    |                |   |
| 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 Effic   | cient Energy  |      |          |          |  |  |
|---|---|------|----------|----------|--|--|
| Building a low-carbon, climate resilient future: secure, clean and efficient energy |   |      |          |          |  |  |
| Buildings in energy tra   | nsition (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 re   | enewables   |      |          |          |  |  |
| LC-SC3-RES-31-2020  | Offshore wind basic science and balance of plant  | 8.0  | 03/12/19 | 21/04/20 |  |  |
| Smart and clean energ   | ry for consumers  |      | 1 1      | ı        |  |  |
| LC-SC3-EC-3-2020  | Consumer engagement and demand response   | 16.0 | 03/09/19 | 29/01/20 |  |  |



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| Smart citizen-centred e | nergy system   |              |                      |          |
|-------------------------|--|--------------|----------------------|----------|
| LC-SC3-ES-3-2018-2020   | Integrated local energy systems (Energy islands)   | 26.3<br>15.0 | 05/12/17<br>03/09/19 | 29/01/20 |
| LC-SC3-ES-4-2018-2020   | Decarbonising energy systems of geographical Islands   | 19.0<br>40.0 | 05/12/17<br>03/09/19 | 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<br>22.0 | 05/12/17<br>03/09/19 | 29/01/20 |
| 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 Comm   | unities  |              |                      |          |
| LC-SC3-SCC-2-2020       | Positive Energy Districts and Neighbourhoods for urban energy transitions  | 5.0          | 05/05/20             | 01/09/20 |

| Smart, green and integra | ated 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<br>08/09/20 - 2nd stage        |
| Safe, integrated and res | lient transport systems   |      |          |                       |   |
| MG-2-6-2019              | Moving freight by Water: Sustainable Infrastructure and Innovative Vessels  | 30.0 | 05/09/18 | 12/09/19<br>2nd stage |   |
| MG-2-7-2019              | Safety in an evolving road mobility environment   | 8.0  | 05/09/18 | 12/09/19<br>2nd stage |   |
| MG-2-11-2020             | Network and traffic management for future mobility  | 20.0 | 03/09/19 |                       | 09/01/20<br><b>08/09/20 – 2nd stage</b> |
| 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 co | ompetitiveness  |      |          |                       |   |
| 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 peop  | le  |      |          |                       |   |
| 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                                |
| Digitising and Transform | ing 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, cli   | 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<br>03/09/20 – 2nd stage        |  |  |
| Climate adaptation, impa   | icts and services  |      |          | · |   |  |  |
| LC-CLA-12-2020   | Advancing climate services   | 22.0 | 12/11/19 |   | 13/02/20<br>03/09/20 – 2nd stage        |  |  |
| Inter-relations between o  | limate 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<br><b>03/09/20 – 2nd stage</b> |  |  |
| 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<br>03/09/20 – 2nd stage        |  |  |



**Border and External Security** SU-BES02-2018-2019-

security

SU-BES03-2018-2019-

2020

2020

Technologies to enhance border and external security

Demonstration of applied solutions to enhance border and external

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| Greening the economy in                      | n line with the Sustainable Development Goals (SDGs)  |                    |                      |                       |   |
|--|---|--------------------|----------------------|-----------------------|---|
| Connecting economic an                       | d environmental gains - the circular economy  |                    |                      |                       |   |
| CE-SC5-04-2019                               | Building a water-smart economy and society  | 72.0               | 14/11/18             | 04/09/19<br>2nd stage |   |
| Raw materials                                |   |                    |                      |                       |   |
| SC5-09-2018-2019                             | New solutions for the sustainable production of raw materials   | 30.0               | 14/11/18             | 04/09/19<br>2nd stage |   |
| SC5-10-2019-2020                             | Raw materials innovation actions: exploration and Earth observation in support of sustainable mining  | 41.86              | 12/11/19             | 04/09/19<br>2nd stage | 13/02/20<br><b>03/09/20 – 2nd stage</b> |
| Protecting and leveragin                     | g the value of our natural and cultural assets: Nature-based solu   | tions, disaster ri | sk reduction a       | nd natural capital a  | ccounting                               |
| SC5-33-2020                                  | Monitoring ecosystems through research, innovation and technology   | 3.0                | 12/11/19             |                       | 13/02/20                                |
| Europe in a changing wo                      | rld - inclusive, innovative and reflective Societies  |                    |                      |                       |   |
| Socioeconomic and cultu                      | ıral transformations in the context of the fourth industrial revolu   | ution              |                      |                       |   |
| DT-<br>TRANSFORMATIONS-<br>02-2018-2019-2020 | Transformative impact of disruptive technologies in public services   | 11.0               | 05/11/19             |                       | 12/03/20                                |
| DT-TRANSFORMATIONS-<br>20-2020               | European Competence Centre for the preservation and conservation of Monuments and Site  | 3.0                | 05/11/19             |                       | 12/03/20                                |
| DT-TRANSFORMATIONS-<br>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-<br>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 futu                      | <u> </u>  |                    | ,                    |                       |   |
| DT-GOVERNANCE-05-<br>2018-2019-2020          | New forms of delivering public goods and inclusive public services  | 20.0               | 05/11/19             |                       | 12/03/20                                |
| DT-GOVERNANCE-12-<br>2019-2020               | Pilot on using the European cloud infrastructure for public administrations   | 10.0               | 05/11/19             |                       | 12/03/20                                |
| DT-GOVERNANCE-22-2020                        | Citizen-centric public services in local and regional administrations   | 1.5                | 05/11/19             |                       | 12/03/20                                |
| Secure societies - Protec                    | ting freedom and security of Europe and its citizens  |                    |                      |                       |   |
|  | ture of Europe and the people in the European smart cities  |                    |                      |                       |   |
| SU-INFRA01-2018-                             | Prevention, detection, response and mitigation of combined physical   | 20.7               | 12/03/20             |                       | 27/00/20                                |
| 2019-2020                                    | and cyber threats to critical infrastructure in Europe  | 20.7               | 12/03/20             |                       | 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  | l challenges for L | aw Enforceme         | nt in Europe          |   |
| SU-AI01-2020                                 | Developing a research roadmap regarding Artificial Intelligence in<br>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 Societ                    | ies   |                    |                      |                       |   |
| SU-DRS02-2018-2019-<br>2020                  | Technologies for first responders   | 21.0               | 12/03/20             | 22/08/19              | 27/08/20                                |
| Fight against Crime and                      | Terrorism   |                    |                      |                       |   |
| SU-FCT02-2018-2019-<br>2020                  | Technologies to enhance the fight against crime and terrorism   | 28.1<br>28.0       | 14/03/19<br>12/03/20 | 22/08/19              | 27/08/20                                |
| SU-FCT03-2018-2019-<br>2020                  | Information and data stream management to fight against (cyber)crime and terrorism  | 8.0<br>8.0         | 14/03/19<br>12/03/20 | 22/08/19              | 27/08/20                                |

14/03/19

12/03/20

14/03/19 12/03/20

22/08/19

22/08/19

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| Digital security                                   |   |              |                      |  |          |          |  |
|--|---|--------------|----------------------|--|----------|----------|--|
| Cybersecurity, Digital Privacy and data protection |   |              |                      |  |          |          |  |
| 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<br>Enterprises and Micro Enterprises                           | 18.0<br>10.8 | 14/03/19<br>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         | 12/03/20             |  |          | 27/08/20 |  |
| SU-DS05-2018-2019                                  | Digital security, privacy, data protection and accountability in critical sectors   | 20.0         | 14/03/19             |  | 22/08/19 |          |  |

| European Innovation Council (EIC) Pilot |                                |                  |          |  |  |  |  |  |
|---|--------------------------------|------------------|----------|--|--|--|--|--|
| EIC Accelerator pilot (SME Instrument)  |                                |                  |          |  |  |  |  |  |
| EIC-SMEInst-2018-2020                   | SME instrument                 | 689.26<br>654.00 | 07/11/17 |  | Phase 1:<br>05/09/19<br>Phase 2:<br>09/10/19 | Phase 2:<br>08/01/20<br>18/03/20<br>19/05/20<br>07/10/20 |  |  |
| Fast Track to Innovation (FTI)          |                                |                  |          |  |  |  |  |  |
|   |                                | 100.0            | 07/11/17 |  | 21/02/19                                     |  |  |  |
| EIC-FTI-2018-2020                       | Fast Track to Innovation (FTI) | 100.0            | 07/11/17 |  | 23/05/19<br>22/10/19                         | 19/02/20<br>09/06/20<br>27/10/20                         |  |  |