# A guide to
# ICT-related activities in WP2016-17

## ICT in H2020 – an overview

### Annex - Detailed list of topics *(with deadlines after September 2016)*

| Topic ID | Topic title *(And links to the specific call)* | Budget (M€) | Opening | Deadline 2016 | Deadline 2017 |
|---|---|---|---|---|---|
| **Industrial Leadership** | | | | | |
| **LEIT - Information and Communication Technologies** | | | | | |
| **Information and Communication Technologies** | | | | | |
| **A new generation of components and systems** | | | | | |
| ICT-04-2017 | Smart Anything Everywhere Initiative | 255 | 10/05/16 | 08/11/16 | |
| **Advanced Computing and Cloud Computing** | | | | | |
| ICT-05-2017 | Customised and low energy computing | 260 | 08/12/16 | | 25/04/17 |
| **Future Internet** | | | | | |
| ICT-07-2017 | 5G PPP Research and Validation of critical technologies and systems | 1.030 | 10/05/16 | 08/11/16 | |
| ICT-08-2017 | 5G PPP Convergent Technologies | 450 | 10/05/16 | 08/11/16 | |
| ICT-09-2017 | Networking research beyond 5G | 180 | 10/05/16 | 08/11/16 | |
| ICT-11-2017 | Collective Awareness Platforms for Sustainability and Social Innovation | 100 | 08/12/16 | | 25/04/17 |
| **Content** | | | | | |
| ICT-14-2016-2017 | Big Data PPP: cross-sectorial and cross-lingual data integration and experimentation | 27.0 27.0 | 20/10/15 08/12/16 | 12/04/16 | 25/04/17 |
| ICT-15-2016-2017 | Big Data PPP: Large Scale Pilot actions in sectors best benefitting from data- driven innovation | 25.0 25.0 | 20/10/15 08/12/16 | 12/04/16 | 25/04/17 |
| ICT-16-2017 | Big data PPP: research addressing main technology challenges of the data economy | 310 | 08/12/16 | | 25/04/17 |

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|---|---|---|---|---|---|
| ICT-17-2016-2017 | Big data PPP: Support, industrial skills, benchmarking and evaluation | 5.0<br>2.0 | 20/10/15<br>08/12/16 | 12/04/16 | 25/04/17 |
| ICT-19-2017 | Media and content convergence | 390 | 10/05/16 | 08/11/16 | |
| ICT-20-2017 | Tools for smart digital content in the creative industries | 170 | 08/12/16 | | 25/04/17 |
| ICT-23-2017 | Interfaces for accessibility | 120 | 08/12/16 | | 25/04/17 |
| **Robotics and Autonomous Systems** | | | | | |
| ICT-25-2016-2017 | Advanced robot capabilities research and take-up | 30.0<br>34.0 | 20/10/15<br>08/12/16 | 12/04/16 | 25/04/17 |
| ICT-27-2017 | System abilities, SME & benchmarking actions, safety certification | 460 | 08/12/16 | | 25/04/17 |
| ICT-28-2017 | Robotics Competition, coordination and support | 50 | 08/12/16 | | 25/04/17 |
| **ICT Key Enabling Technologies** | | | | | |
| ICT-30-2017 | Photonics KET 2017 | 870 | 08/12/16 | | 25/04/17 |
| ICT-31-2017 | Micro- and nanoelectronics technologies | 230 | 08/12/16 | | 25/04/17 |
| **Innovation and Entrepreneurship support** | | | | | |
| ICT-32-2017 | Startup Europe for Growth and Innovation Radar | 120 | 08/12/16 | | 25/04/17 |
| ICT-33-2017 | Innovation procurement networks | 40 | 08/12/16 | | 25/04/17 |
| **International Cooperation Activities** | | | | | |
| ICT-39-2016-2017 | International partnership building in low and middle income countries | 0.8<br>13.0 | 20/10/15<br>08/12/16 | 19/01/16 | 25/04/17 |
| ICT-40-2017 | Reinforcing European presence in international ICT standardisation | 2 | 8/12/2016 | | 25/04/17 |
| ICT-41-2017 | Next Generation Internet | 2 | 8/12/2016 | | 25/04/17 |
| **EU-Brazil Joint Call** | | | | | |
| EUB-01-2017 | Cloud Computing | 25 | 08/11/16 | | 14/03/17 |
| EUB-02-2017 | IoT Pilots | 45 | 08/11/16 | | 14/03/17 |
| **LEIT - Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing** | | | | | |
| **Nanotechnologies, advanced materials, biotechnology and production** | | | | | |
| **Advanced materials and nanotechnologies for healthcare** | | | | | |
| NMBP-13-2017 | Cross-cutting KETs for diagnostics at the point-of-care | 150 | 20/09/16 | | 19/01/17 |
| **Innovation in SMEs** | | | | | |
| Horizon 2020 dedicated SME Instrument 2016-2017 (link to all SMEinstrument topics) | | | | | |
| SMEInst-01-2016-2017 | Open Disruptive Innovation Scheme | 1.260 | | Phase 1: | Phase 1: |
| SMEInst-06-2016-2017 | Accelerating market introduction of ICT solutions for Health, Well-Being and Ageing Well | 305 | | 24/02/16<br>03/05/16 | 15/02/17<br>03/05/17 |
| SMEInst-09-2016-2017 | Stimulating the innovation potential of SMEs for a low carbon and efficient energy system | 960 | | 07/09/16<br>09/11/16 | 06/09/17<br>08/11/17 |

| | | | | | |
|---|---|---|---|---|---|
| SMEInst-10-2016-2017 | Small business innovation research for Transport and Smart Cities Mobility | 1.188 | | | |
| SMEInst-12-2016-2017 | New business models for inclusive, innovative and reflective societies | 222 | | Phase 2: 03/02/16 14/04/16 15/06/16 | Phase 2: 18/01/17 06/04/17 01/06/17 |
| SMEInst-13-2016-2017 | Engaging SMEs in security research and development | 300 | 26/11/15 | 13/10/16 | 18/10/17 |

## Cross-cutting activities (Focus Areas)

### Industry 2020 in the Circular Economy

#### ICT for the factories of the future

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|---|---|---|---|---|---|
| FOF-12-2017 | ICT Innovation for Manufacturing SMEs (I4MS) | 330 | 20/09/16 | | 19/01/17 |

#### Circular Economy

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|---|---|---|---|---|---|
| CIRC-02-2016-2017 | Water in the context of the circular economy | 20.0 30.0 | 10/11/15 08/11/16 | 08/03/16 *06/09/16* | 07/03/17 *05/09/17* |

### Internet of Things

| | | | | | |
|---|---|---|---|---|---|
| IoT-03-2017 | R&I on IoT integration and platforms | 350 | 08/12/16 | | 25/04/17 |

### Smart and sustainable cities

#### Smart cities and communities

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|---|---|---|---|---|---|
| SCC-1-2016-2017 | Smart Cities and Communities lighthouse projects | 60.0 71.5 | 08/12/15 04/10/16 | 05/04/16 | 14/02/17 |

#### Sustainable cities through nature-based solutions

| | | | | | |
|---|---|---|---|---|---|
| SCC-02-2016-2017 | Demonstrating innovative nature-based solutions in cities | 40.0 40.0 | 10/11/15 08/11/16 | 08/03/16 *06/09/16* | 07/03/17 *05/09/17* |

## Fast Track to Innovation Pilot

### Fast Track to Innovation Pilot

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|---|---|---|---|---|---|
| FTIPilot-01-2016 | Fast Track to Innovation Pilot | 1.000 | 02/12/15 | 15/03/16 01/06/16 25/10/16 | |

Note: For deadlines, shaded cells in the table correspond to two-stage calls.

# A guide to
# ICT-related activities in WP2016-17

Relevant Calls from <u>other</u> Work Programmes

| Topic ID | Topic title | Budget (M€) | Opening | Deadline 2016 | Deadline 2017 |
|---|---|---|---|---|---|
| **Excellent Science (link)** | | | | | |
| **Future and Emerging Technologies (FET)** | | | | | |
| **FET Open: novel ideas for radically new technologies** | | | | | |
| FETOPEN-01-2016-2017 | FET-Open research and innovation actions | 2 x 84.0 | 08/12/15 | | 17/01/17 27/09/17 |
| FETOPEN-03-2017 | FET-Open Coordination and Support Actions | 15 | 20/09/16 | | 17/01/17 |
| FETOPEN-04-2016-2017 | FET Innovation Launchpad | 30 | 01/03/16 | 29/09/16 | 27/09/17 |
| **FET Proactive - Boosting emerging technologies** | | | | | |
| FETPROACT-02-2017 | FET ERANET Cofund | 50 | 20/09/16 | | 24/01/17 |
| **FET Proactive - High Performance Computing** | | | | | |
| FETHPC-02-2017 | Transition to Exascale Computing | 400 | 12/04/17 | | 26/09/17 |
| FETHPC-03-2017 | Exascale HPC ecosystem development | 40 | 12/04/17 | | 26/09/17 |
| **Research Infrastructures** | | | | | |
| **E-Infrastructures** | | | | | |
| EINFRA-12-2017 | Data and Distributed Computing e-infrastructures for Open Science | 400 | 08/12/16 | | 29/03/17 |
| EINFRA-21-2017 | Platform-driven e-infrastructure innovation | 26.0 20.0 | 14/04/16 08/12/16 | 20/09/16 | 29/03/17 |
| **Support to policy and international cooperation** | | | | | |
| INFRASUPP-03-2016 | Support to policies and international cooperation for e-infrastructures | 75 | 08/12/15 | 30/03/16 | |
| **Societal Challenges (link)** | | | | | |
| **Health, demographic change and well-being** | | | | | |
| **Personalised Medicine** | | | | | |
| **1.4 Active ageing and self-management of health** | | | | | |
| SC1-PM-15-2017 | Personalised coaching for well-being and care of people as they age | 250 | 20/09/16 | | 31/01/17 |

| 1.5 Methods and data | | | | | |
|---|---|---|---|---|---|
| SC1-PM-16-2017 | In-silico trials for developing and assessing biomedical products | 190 | 08/11/16 | | 14/03/17 |
| SC1-PM-17-2017 | Personalised computer models and in-silico systems for well-being | 190 | 08/11/16 | | 14/03/17 |
| SC1-PM-19-2017 | PPI for uptake of standards for the exchange of digitalised healthcare records | 82 | 08/11/16 | | 14/03/17 |
| **Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy** | | | | | |
| **Sustainable Food Security - Resilient and resource-efficient value chains** | | | | | |
| **More resilient and resource efficient value chains** | | | | | |
| SFS-05-2017 | Robotics Advances for Precision Farming | 70 | 04/10/16 | | 14/02/17 |
| **Secure, Clean and Efficient Energy** | | | | | |
| **Energy efficiency** | | | | | |
| **2. Engaging consumers towards sustainable energy** | | | | | |
| EE-06-2016-2017 | Engaging private consumers towards sustainable energy | N/A | 15/03/16 19/01/17 | 15/09/16 | 07/06/17 |
| EE-07-2016-2017 | Behavioural change toward energy efficiency through ICT | N/A | 15/10/15 15/06/16 | 21/01/16 | 19/01/17 |
| **3. Buildings** | | | | | |
| EE-12-2017 | Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership (PPP) | 80 | 15/06/16 | | 19/01/17 |
| **4. Industry, services and products** | | | | | |
| EE-20-2017 | Bringing to market more energy efficient and integrated data centres | N/A | 15/06/16 | | 19/01/17 |
| **Competitive low carbon energy** | | | | | |
| **1. Towards an integrated EU energy system** | | | | | |
| LCE-01-2016-2017 | Next generation innovative technologies enabling smart grids, storage and energy system integration with increasing share of renewables: distribution network | 20.0 18.0 | 08/12/15 20/09/16 | 05/04/16 | 14/02/17 |
| LCE-04-2017 | Demonstration of smart transmission grid, storage and system integration technologies with increasing share of renewables | 651 | 20/09/16 | | 14/02/17 |
| LCE-05-2017 | Tools and technologies for coordination and integration of the European energy system | 280 | 20/09/16 | | 14/02/17 |
| **Smart, green and integrated transport** | | | | | |
| **Mobility for growth** | | | | | |
| **4. Urban mobility** | | | | | |
| MG-4.1-2017 | Increasing the take up and scale-up of innovative solutions to achieve sustainable mobility in urban areas | N/A | 20/09/16 | | 26/01/17 *19/10/17* |
| **5. Logistics** | | | | | |
| MG-5.2-2017 | Innovative ICT solutions for future logistics operations | N/A | 20/09/16 | | 26/01/17 *19/10/17* |

## 6. Intelligent transport systems

| MG-6.1-2016 | Innovative concepts, systems and services towards 'mobility as a service' | 250 | 15/10/15 | 20/01/16 | |
|---|---|---|---|---|---|
| MG-6.2-2016 | Large-scale demonstration(s) of cooperative ITS | | | *29/09/16* | |
| MG-6.3-2016 | Roadmap, new business models, awareness raising, support and incentives for the roll-out of ITS | 50 | 15/10/15 | 26/01/16 | |

## 8. Socio-economic and behavioural research and forward looking activities for policy making

| MG-8.2-2017 | Big data in Transport: Research opportunities, challenges and limitations | 20 | 20/09/16 | | 01/02/17 |
|---|---|---|---|---|---|

## Automated road transport

| ART-01-2017 | ICT infrastructure to enable the transition towards road transport automation | N/A | 20/09/16 | | 26/01/17 *27/09/17* |
|---|---|---|---|---|---|

## Green vehicles

| GV-10-2017 | Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system | N/A | 04/10/16 | | 01/02/17 |
|---|---|---|---|---|---|

# Climate action, environment, resource efficiency and raw materials

## Greening the Economy

## Earth observation

# Europe in a changing world – inclusive, innovative and reflective Societies

## Co-creation for growth and inclusion

| CO-CREATION-04-2017 | Applied co-creation to deliver public services | 100 | 04/10/16 | | 02/02/17 |
|---|---|---|---|---|---|
| CO-CREATION-06-2017 | Policy-development in the age of big data: data-driven policy-making, policy- modelling and policy-implementation | 115 | 04/10/16 | | 02/02/17 |

## Reversing inequalities and promoting fairness

| REV-INEQUAL-09-2017 | Boosting inclusiveness of ICT-enabled research and innovation | 30 | 04/10/16 | | 02/02/17 |
|---|---|---|---|---|---|

## Understanding Europe – promoting the European public and cultural space

| CULT-COOP-09-2017 | European cultural heritage, access and analysis for a richer interpretation of the past | 90 | 04/10/16 | | 02/02/17 |
|---|---|---|---|---|---|
| CULT-COOP-11- 2016/2017 | Understanding the transformation of European public administrations | 8.5 7.0 | 27/10/15 04/10/16 | 04/02/16 | 02/02/17 |

# Secure societies – Protecting freedom and security of Europe and its citizens

## Critical infrastructure protection

| CIP-01-2016-2017 | Prevention, detection, response and mitigation of the combination of physical and cyber threats to the critical infrastructure of Europe | 20.0 20.0 | 15/03/16 01/03/17 | 25/08/16 | 24/08/17 |
|---|---|---|---|---|---|

## Digital security

| DS-06-2017 | Cryptography | 185 | 08/12/16 | | 25/04/17 |
|---|---|---|---|---|---|
| DS-07-2017 | Addressing Advanced Cyber Security Threats and Threat Actors | 180 | 01/03/17 | | 24/08/17 |
| DS-08-2017 | Privacy, Data Protection, Digital Identities | 180 | 01/03/17 | | 24/08/17 |