Horizon 2020 – Information and Communication Technologies

Topics 2018-2020
Budget and Deadlines

	Call Topic	Budget €M	Deadline
Technologies for Digitising European Industry			
ICT-01-2019	**Computing technologies and engineering methods for cyber-physical systems of systems**	**€3-5M** per project	28 Mar 2019
ICT-02-2018	**Flexible and Wearable Electronics**	**€2-4M** per project	17 Apr 2018

ICT-03-2018-2019	**Photonics Manufacturing Pilot Lines for Photonic Components and Devices**
	      1. Indium Phosphide (2018 call)
	      2. Silicon Photonics (2018 call)
	      3. Next generation free-form optics (2019 call)
	      4. Advanced optical medical device technologies for medical diagnostics (2019 call)
		€8-15M per project	17 Apr 2018
			28 Mar 2019

ICT-04-2018	**Photonics based manufacturing, access to photonics, datacom photonics and connected lighting**
	IA: i. Access to advanced photonics for researchers
	      ii. Enabling automated mass-manufacturing of datacom photonics products
	      iii. Connected Lighting
	RIA: i. Highly Productive Ultra-Short Laser Systems for Fast Materials Processing
	      ii. Tailored Laser Beams for Laser-based Manufacturing
		€3-6M per project (IA, RIA)	17 Apr 2018

ICT-05-2019	**Application driven Photonics components**
	IA: i. Photonics devices to support monitoring therapeutic progress
	      ii. Sensor-Based Optimization of Production Processes
	RIA: i. Photonics System on Chip/ System in Package for optical interconnect applications
	      ii. Photonics systems for advanced imaging to support diagnostics driven therapy
	CSA: i. Fostering careers in photonics
		€3-6M per project (IA, RIA)
		
		€1-1.5M per project (CSA)
			28 Mar 2019

ICT-06-2019	**Unconventional Nanoelectronics**	**€2-4M** per project	28 Mar 2019
ICT-07-2018	**Electronic Smart Systems (ESS)**	**€2-4M** per project (RIA) Up to 8M (IA)	17 Apr 2018
ICT-08-2019	**Security and resilience for collaborative manufacturing environments**	**€4-6M** per project	28 Mar 2019
ICT-09-2019-2020	**Robotics in Application Areas** a) Research and Innovation boosting promising robotics applications b) Innovation Actions - Robotics for infrastructure inspection and maintenance c) Robotics Competitions	**€3-5M** per project (RIA) **€7-9M** (IA)	28 Mar 2019
ICT-10-2019-2020	**Robotics Core Technology** **-**AI and Cognition	**€5-10M** per project	28 Mar 2019

	-Cognitive Mechatronics -Socially cooperative human-robot interaction - Model-based design and configuration tools		
European Data Infrastructure: HPC, Big Data and Cloud technologies			
ICT-11-2018-2019	**HPC and Big Data enabled Large-scale Test-beds and Applications**	**€12-13M** for a **€15-18M** for b	17 Apr 2018 14 Nov 2018
ICT-12-2018-2020	**Big Data technologies and extreme-scale analytics**	**€3-6M** per project (RIA)	17 Apr 2018
ICT-13-2018-2019	**Supporting the emergence of data markets and the data economy** a) IA: Sharing of "closed" (proprietary and/or personal) data Personal data platforms Industrial data platforms b) RIA: Computational methods for data privacy c) CSA: Community support and standardization	**€4-6M** per project (IA)	17 Apr 2018 28 Mar 2019
ICT-15-2019-2020	**Cloud Computing** RIA: i. Modelling techniques ii. Edge computing iii. Management of resources CSA: Awareness rising, stakeholder coordination	**€3-5M** per project (RIA)	28 Mar 2019
ICT-16-2018	**Software Technologies** a) RIA: Integrated programming models & techniques for exploiting the potential of virtualised and software defined infrastructures b) IA: Software ecosystems exploiting the potential of existing code bases	**€3-5M** per project	17 Apr 2018
5G			
ICT-17-2018	**5G End to End Facility**	**€15-20M** per project	31 Jan 2018
ICT-18-2018	**5G for cooperative, connected and automated mobility (CCAM)**	**€12.5-25M** per project	17 Apr 2018
ICT-19-2019	**Advanced 5G validation trials across multiple vertical industries**	**€10-15M** per project	14 Nov 2018
ICT-20-2019-2020	**5G Long Term Evolution**	**€4-6M** per project	28 Mar 2019
ICT-21-2018	**EU-US Collaboration for advanced wireless platforms**	**Up To 2M**	17 Apr 2018
ICT-22-2018	**EU-China 5G Collaboration**	**Up To 6M**	31 Jan 2018
ICT-23-2019	**EU-Taiwan 5G collaboration**	**Up To 2M**	15 Jan 2019
Next Generation Internet (NGI)			
ICT-24-2018-2019	**Next Generation Internet - An Open Internet Initiative** RIA: i) Privacy and trust enhancing technologies ii) Decentralized data governance iii) Discovery and identification technologies CSA: iv) 'Technology Strategy & Policy' v) 'Technology Harvest & Transfer' vi) 'Outreach Office'	**Up To 7M**	17 Apr 2018
ICT-25-2018-2020	**Interactive Technologies** **a**) Interactive Community Building (CSA) b) Future interaction (RIA)	**€2-4M** per project	17 Apr 2018 14 Nov 2018
ICT-26-2018-2020	**Artificial Intelligence**	**Up To 20M**	17 Apr 2018

ICT-27-2018-2020	**Internet of Things**	**Up To 1.5M**	17 Apr 2018
ICT-28-2018	**Future Hyper-connected Sociality** **a)** Content verification (IA) b) Secure Data Ecosystem (IA) c) Support of new Social Media initiatives (RIA) d) Support of Social Media ecosystem community building (CSA)	**€2.5-5M** per project (IA) **€5M** (RIA**)**	17 Apr 2018
ICT-29-2018	**A multilingual Next Generation Internet** **a**) IA: A European Language Grid b) RIA: Domain-specific/challenge-oriented Human Language Technology.	**€7M** per project (IA) **€3M** (RIA**)**	17 Apr 2018
ICT-30-2019-2020	**An empowering, inclusive Next Generation Internet** a. IA: Digital Learning Incubator b. CSA in Digital Learning	**€7M** per project (IA) **€1M** (CSA)	28 Mar 2019
ICT-31-2018-2019	**EU-US collaboration on NGI**	**€3.5M** per project (RIA) **€1.5M** (CSA**)**	17 Apr 2018 28 Mar 2019
Cross-cutting activities			
ICT-32-2018	**STARTS – The Arts stimulating innovation**	**€4M** per project (RIA) **€1M** (CSA)	17 Apr 2018
Cybersecurity			
SU-ICT-01-2018	**Dynamic countering of cyber-attacks** **a)** Cyber-attacks management - advanced assurance and protection b) Cyber-attacks management – advanced response and recovery	**€4-5M** per project (IA)	28 Aug 2018
SU-ICT-02-2020	**Building blocks for resilience in evolving ICT systems** **a)** Cybersecurity/privacy audit, certification and standardisation b) Trusted supply chains of ICT systems c) Designing and developing privacy-friendly and secure software and hardware	**€4-5M** per project (IA)	19 Sep 2019
SU-ICT-04-2019	**Quantum Key Distribution testbed**	**Up to 15M**	28 Aug 2018
EU-Japan Joint Call			
EUJ-01-2018	**Advanced technologies (Security/Cloud/IoT/BigData) for a hyper-connected society in the context of Smart City** 1. Advanced technologies combining Security, IoT, Cloud and Big data for a hyper-connected society 2. Interoperable technologies of IoT devices/platforms in the context of Smart Cities	**€1.5M** per project (RIA)	31 Jan 2018
EUJ-02-2018	**5G and beyond** **1)** Large-scale demonstrations and trials towards 5G applications 2) Joint research on enabling technologies for beyond 5G	**€3.5M** per project (RIA)	31 Jan 2018
EU-Korea Joint Call			
EUK-01-2018	**Cloud, IoT and AI technologies**	**€2.2M** per project (RIA)	31 Jan 2018

EUK-02-2018	**5G** a) Focus on mmwave and super broadband services b) Focus on interoperability and integration of 5G vertical testbeds on heterogeneous environments EU contribution: EUR 2 Million (RIA)	**€2M** per project (RIA)	31 Jan 2018