

Horizon 2020

Digital innovation and Digital transformation: what is in it for me?

ICT in H2020 > LEIT-ICT

Excellent Science Frontier Research (ERC) Future and Emerging Technologies (FET) Skills and career development (Marie Skłodowska-Curie) Research Infrastructures

Industrial Leadership Leadership in enabling and industrial technologies ICT ICT ICT ICT Nanotech., Materials, Manuf. & Processing Biotechnology Space ICT Access to risk finance Innovation in SMEs





ICT in Industrial leadership





Approach to WP2018-20



- Focus and align with high-level political priorities
 - Digitising and transforming European industry and Services (including AI)
 - European Data Infrastructures (HPC, Big data and Cloud)
 - 5G Action plan and Connected and Automated Mobility
 - Next Generation Internet
 - Cybersecurity
- Support core ICT industries through roadmap-based cPPPs
 - Stronger synergies between cPPPs
- Integrate digital technologies across all parts of H2020
- Continued focus on innovation



Industrial Leadership - ICT



Call – Information and Communication technologies

- Artificial Intelligence and Technologies for Digitising European Industry and Economy
- European Data Infrastructures: HPC, Big data and Cloud technologies
- 5G
- Next Generation Internet (NGI)
- Cross-cutting activities

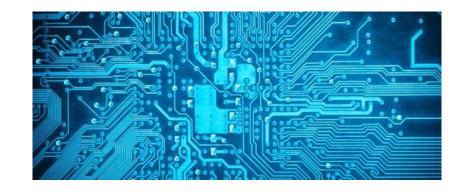
Call - Digitising and transforming European industry and services: digital innovation hubs and platforms

Call - Cybersecurity



Technologies for Digitising European Industry 2020

349,5м€



- Cover wide range of ICT technologies including micro-electronics, cyberphysical systems, photonics and robotics. Systemic integration from smart integrated components to cyber-physical systems
- Complementary to the JTI Electronic Components and Systems (ECSEL)
- Organised in eight topics in 2020:
 - ICT-46-2020: Robotics in Application Areas and Coordination & Support
 - ICT-47-2020: Research and Innovation boosting promising robotics applications
 - ICT-48-2020: Towards a vibrant European network of AI excellence centres
 - ICT-49-2020: Artificial Intelligence on demand platform
 - ICT-38-2020: Artificial intelligence for manufacturing
 - ICT-36-2020: Disruptive photonics technologies
 - ICT-37-2020: Advancing photonics technologies and application driven photonics components and the innovation ecosystem
 - ICT-50-2020: Software Technologies



European Data Infrastructures2020





- Complementary to the work in the Excellent Science pillar under Research Infrastructures, FET and EuroHPC (on High Performance Computing)
- Develop competitive cloud solutions based on advanced platforms and services and cloud-based software and data application
- Organised in two topics in 2020:
 - ICT-51-2020: Big Data technologies and extreme-scale analytics
 - ICT-40-2020: Cloud Computing: towards a smart cloud computing continuum



5G 2020





- 5G cPPP targets validation of technologies and architectures in a system context and for multiple use cases
- 5G applied for Connected and Automated Mobility (CAM)
- 5G cPPP looking for Smart Connectivity beyond 5G
- Organised in four topics in 2020:
 - ICT-52-2020: 5G PPP Smart Connectivity beyond 5G
 - ICT-41-2020: 5G PPP 5G innovations for verticals with third party services
 - ICT-42-2020: 5G PPP 5G core technologies innovation
 - ICT-53-2020: 5G PPP 5G for Connected and Automated Mobility (CAM)



Next Generation Internet (NGI) 2020

110 M€



- Next generation technologies for the internet in 10-15 years based on European values such as openness, neutrality, cooperation, inclusion, transparency and protection of data and privacy.
- Organised in five topics:
 - ICT-54-2020: Blockchain for the Next Generation Internet
 - ICT-55-2020: Interactive Technologies
 - ICT-56-2020: Next Generation Internet of Things
 - ICT-57-2020: An empowering, inclusive Next Generation Internet
 - ICT-44-2020: Next Generation Media



Cross-cutting and international Cooperation activities 2020

- Cross-cutting activities
 - ICT-45-2020: Reinforcing European presence in international ICT standardisation: Standardisation Observatory and Support Facility
- International Cooperation
 - ICT-58-2020: International partnership building between European and African innovation hubs



Call - Digitising and transforming European industry and services: digital innovation hubs and platforms 2020 190,5 M€

- Focus area implemented mainly through:
 - Digital innovation hubs
 - Cross-sectorial and integrated digital platforms
- Organised in five topics in 2019:
 - DT-ICT-03-2020: I4MS (phase 4) uptake of digital game changers
 - DT-ICT-04-2020: Photonics Innovation Hubs
 - DT-ICT-05-2020: Big Data Innovation Hubs
 - DT-ICT-09-2020: Boost rural economies through cross-sector digital service platforms
 - DT-ICT-12-2020: AI for the smart hospital of the future



Call Cybersecurity 2020





- Focus area
 - Combining contributions from LEIT-ICT, SC1 and SC7
- Grouping the main R&D&I activities in Cybersecurity, from enabling technologies to specific use cases
- Organised in one topic in 2020:
 - SU-ICT-02-2020: Building blocks for resilience in evolving ICT systems



















@DSMeu #ICTpropday http://bit.ly/ICTPropDay2019





Venue:

Messukeskus Expo and Convention Centre, Helsinki

https://messukeskus.com/

Website and registration:

https://ec.europa.eu/digital-single-

market/en/news/digital-excellence-forum-

ict-proposers-day-2019



European

Thank you!

#DigitalEurope

http://ec.europa.eu/digital-europe

