

ICT-related topics in 2020

Throughout the Horizon 2020 work programme



Excellence Science (Pillar 2)

Future and Emerging Technologies (FET)

FET Open: novel ideas for radically new technologies

FETOPEN-01-2018-2019-2020	FET-Open Challenging Current Thinking	354.2	13/05/20
FETOPEN-03-2018-2019-2020	FET Innovation Launchpad	3.0	14/10/20

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

FETPROACT-EIC-07-2020	FET Proactive: emerging paradigms and communities	50.0	22/04/20
FETPROACT-EIC-08-2020	Environmental Intelligence	18.0	22/04/20

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

FETPROACT-09-2020	Neuromorphic computing technologies	15.0	22/04/20
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FET Proactive - High Performance Computing

FETHPC-04-2020	International Cooperation on HPC	0.5	22/04/20
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FET Flagships - Tackling grand interdisciplinary science and technology challenges

FETFLAG-04-2020	Quantum Flagship - ERA-NET Cofund	15.0	07/05/20
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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	22/04/20
INFRAEOSC-07-2020	Increasing the service offer of the EOSC Portal	24.0	22/04/20

Integrating and opening research infrastructures of European interest

INFRAIA-02-2020	Integrating Activities for Starting Communities	115.0	17/03/20
INFRAIA-03-2020	Pilot for a new model of Integrating Activities	45.0	17/03/20

European Data Infrastructure

INFRAEDI-05-2020	Centres of Excellence in exascale computing	20.0	13/11/19
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Demonstrating the role of Research Infrastructures in the translation of Open Science into Open Innovation

INFRAINNOV-03-2020	Co-Innovation platform for research infrastructure technologies	35.0	17/03/20
INFRAINNOV-04-2020	Innovation pilots	30.0	17/03/20



ICT LEIT (due 13 November 2019)

ICT-48-2020	Towards a vibrant European network of AI excellence centres	50.0
ICT-53-2020	5G PPP – 5G for Connected and Automated Mobility (CAM)	30.0
ICT-55-2020	Interactive Technologies	17.0
ICT-56-2020	Next Generation Internet of Things	48.5
ICT-45-2020	Reinforcing European presence in international ICT standardisation: Standardisation Observatory and Support Facility	4.0
DT-ICT-03-2020	I4MS (phase 4) - uptake of digital game changers and digital manufacturing platforms	71.0
DT-ICT-05-2020	Big Data Innovation Hubs	30.5



ICT LEIT (due 16 January 2020)

ICT-51-2020	Big Data technologies and extreme-scale analytics	31.5
ICT-50-2020	Software Technologies	30.0
ICT-38-2020	Artificial intelligence for manufacturing	48.0
ICT-42-2020	5G PPP – 5G core technologies innovation	49.0
ICT-54-2020	Blockchain for the Next Generation Internet	20.0
ICT-44-2020	Next Generation Media	17.5

Anything with robotics, artificial intelligence, next generation internet, supercomputing, high performance computing or cybersecurity are ridiculously important.



ICT LEIT (due 22 April 2020)

ICT-46-2020	Robotics in Application Areas and Coordination & Support	83.0
ICT-47-2020	Research and Innovation boosting promising robotics applications	20.0
ICT-49-2020	Artificial Intelligence on demand platform	20.0
ICT-36-2020	Disruptive photonics technologies	47.5
ICT-37-2020	Advancing photonics technologies and application driven photonics components and the innovation ecosystem	48.0
ICT-40-2020	Cloud Computing: towards a smart cloud computing continuum	20.0
ICT-52-2020	5G PPP – Smart Connectivity beyond 5G	55.0
ICT-41-2020	5G PPP – 5G innovations for verticals with third party services	49.0
ICT-57-2020	An empowering, inclusive Next Generation Internet	7.0
ICT-58-2020	International partnership building between European and African innovation hubs	11.0
DT-ICT-04-2020	Photonics Innovation Hubs	19.0
DT-ICT-09-2020	Digital service platforms for rural economies	30.0
DT-ICT-12-2020	The smart hospital of the future	40.0



Space (due 5 March 2020)

DT-SPACE-25-EO-2020	Big data technologies and Artificial Intelligence for Copernicus	10.0
SPACE-27-TEC-2020	SRC - Space robotics technologies	9.0
DT-SPACE-26-BIZ-2020T	Space hubs (support to start-ups)	2.0
SPACE-29-TEC-2020	Satellite communication technologies	9.0
SPACE-30-SCI-2020	Scientific data exploitation	9.0



Health

Due 7 April 2020

SC1-BHC-06-2020	Digital diagnostics – developing tools for supporting clinical decisions by integrating various diagnostic data	40.0
SC1-HCO-18-2020	Developing methodological approaches for improved clinical investigation and evaluation of high-risk medical devices	2.0
SC1-DTH-12-2020	Use of Real-World Data to advance research on the management of complex chronic conditions	41.0
SC1-DTH-13-2020	Implementation research for scaling up and transfer of innovative solutions involving digital tools for people-centred care	20.0

Due 22 April 2020

SC1-DTH-02-2020	Personalised early risk prediction, prevention and intervention based on Artificial Intelligence and Big Data technologies	32.0
SC1-DTH-04-2020	International cooperation in smart living environments for ageing people	8.0
SC1-DTH-06-2020	Accelerating the uptake of computer simulations for testing medicines and medical devices	32.0
SC1-DTH-14-2020	Pre-commercial Procurement for Digital Health and Care Solutions	9.0
SC1-HCC-08-2020	Scaling up innovation for active and healthy ageing	2.0
SC1-HCC-09-2020	Supporting deployment of eHealth in low and lower middle income countries in Africa for better health outcomes	2.0



Secure, clean and efficient energy

Due 15 January 2020

LC-SC3-B4E-5-2020	Integrated design concepts for energy-efficient ICT in buildings	3.0
LC-SC3-B4E-6-2020	Big data for buildings	12.0
LC-SC3-B4E-7-2020	European building stock data 4.0	4.0
LC-SC3-B4E-10-2020	Self-assessment and self-optimisation of buildings and appliances for a better energy performance	6.0
LC-SC3-EC-3-2020	Consumer engagement and demand response	16.0

Due 29 January 2020

LC-SC3-ES-32020	Integrated local energy systems (Energy islands)	15.0
LC-SC3-ES-4-2020	Decarbonising energy systems of geographical Islands	40.0
LC-SC3-ES-5-2020	TSO - DSO - Consumer: Large-scale demonstrations of innovative grid services through demand response, storage and small-scale (RES) generation	22.0
LC-SC3-ES-10-2020	DC – AC/DC hybrid grid for a modular, resilient and high RES share grid development	14.0



Secure, clean and efficient energy

Due 21 April 2020

LC-SC3-RES-31-2020	Offshore wind basic science and balance of plant	8.0
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Due 1 September 2020

LC-SC3-SCC-2-2020	Positive Energy Districts and Neighbourhoods for urban energy transitions	5.0
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Due 10 September 2020

LC-SC3-B4E-3-2020	Upgrading smartness of existing buildings through innovations for legacy equipment	8.0
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LC-SC3-B4E-14-2020	Enabling next-generation of smart energy services valorising energy efficiency and flexibility at demand-side	
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Smart, green and integrated transport (due 21 April 2020)

MG-2-13-2020	Coordination and support for an integrated freight transport and logistics system	1.0
MG-3-4-2020	Innovative electric network architectures and systems, optimising global energy, electrical power, data and communication for aviation	10.0
MG-3-6-2020	Towards sustainable urban air mobility	15.0
MG-3-7-2020	Improved Production and Maintenance Processes in Shipyards	15.0
MG-4-7-2020	Digitalisation of the transport system: data sharing	3.0
MG-4-8-2020	Advanced research methods and tools in support of transport/mobility researchers, planners and policy makers	3.0
DT-ART-05-2020	Efficient and safe connected and automated heavy-duty vehicles in real logistics operations	20.0
DT-ART-06-2020	Large-scale, cross-border demonstration of connected and highly automated driving functions for passenger cars	30.0



Europe in a changing world (due 12 March 2020)

DT-GOVERNANCE-05-2020	New forms of delivering public goods and inclusive public services	20.0
DT-GOVERNANCE-12-2020	Pilot on using the European cloud infrastructure for public administrations	10.0
DT-GOVERNANCE-22-2020	Citizen-centric public services in local and regional administrations	1.5



Secure societies (due 27 August 2020)

SU-AI01-2020	Developing a research roadmap regarding Artificial Intelligence in support of Law Enforcement	1.5
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
SU-AI03-2020	Human factors, and ethical, societal, legal and organisational aspects of using Artificial Intelligence in support of Law Enforcement	1.5
SU-DRS02-2020	Technologies for first responders	21.0
SU-FCT02-2020	Technologies to enhance the fight against crime and terrorism	28.0
SU-FCT03-2020	Information and data stream management to fight against (cyber)crime and terrorism	8.0
SU-BES02-2020	Technologies to enhance border and external security	21.0
SU-BES03-2020	Demonstration of applied solutions to enhance border and external security	10.0
SU-DS02-2020	Intelligent security and privacy management	38.0
SU-DS03-2020	Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises	10.8
SU-DS04-2020	Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches	20.0



European Innovation Council (EIC) Pilot

- SME instrument
- Fast Track to Innovation
- EIC Accelerator
- EIC Pathfinder (formerly known as FET)



19-20 SEPTEMBER - HELSINKI

DIGITAL EXCELLENCE FORUM

@

ICT

PROPOSERS' DAY 2019



SITRA

BUSINESS
FINLAND

VTT



@DSMeu | #ICTpropday

<http://bit.ly/ICTPropDay2019>



Where can I find the guide?

<https://ec.europa.eu/digital-single-market/en/news/digital-excellence-forum-ict-proposers-day-2019>

This event will provide an excellent opportunity to present and discuss the main policy drivers of the digital transformation of European industry and society and how the EU research and innovation agenda can best contribute to these objectives. The event will also present the Horizon 2020 Work Programme, and serve as a unique networking platform for ICT enthusiasts and professionals.



Registration

Discover agenda

Success Stories

The programme

The Digital Excellence Forum will start with a plenary debate on "Partnering for Digital Excellence". Partnerships are a strategic implementation mechanism to align research agendas, leverage investments at European and National levels, and mobilise private co-investment from industry. This plenary session will be an opportunity to listen to European leaders debating about key challenges that Europe will face in the coming decade and how European programmes catalyse investments in shared R&I goals.

The event will have a separate track of *open dialogue sessions* on the upcoming [Digital Europe Programme](#), which main objective is to boost Europe's sustainable digital transformation for the benefit of citizens and businesses. These sessions will provide a unique opportunity for participants to get an insight of the Commission proposal for the first two years of the [programme](#) and to share their views and ideas for programme investments focus in the next two years.

ICT Proposers' Day 2019 tracks will focus on the upcoming calls of the [Horizon 2020 Work Programme](#) in the field of [Information & Communication Technologies](#), [Future and Emerging Technologies \(FET\)](#), and [Societal Challenges](#). The event will offer an exceptional opportunity to build quality partnerships with academics, researchers, industrial stakeholders, SMEs and government actors from all over Europe.

Programme at a glance

Guide to ICT-related activities

Commission officials will be at your disposal to reply to your questions.

About ICT Proposers' Day 2019

Policies

News

Events

Related topics

Shaping the Digital Single Market



Full proposal check – 3 October for November ICT LEIT topics

The screenshot shows the Ideal-ist website's event page. At the top, there is a navigation menu with links for HOME, ABOUT IDEAL-IST, EVENTS, NEWS, ICT IN H2020, TOOLS, NATIONAL CONTACTS, LOGIN, and a search icon. The main header features the Ideal-ist logo and the event title: "Ideal-ist Proposal Check Event for ICT calls in Horizon 2020". Below the header, a breadcrumb trail reads "Home > Events > Ideal-ist Proposal Check Event for ICT calls in Horizon 2020". The central image shows three people in a meeting room looking at multiple computer monitors displaying charts and data. To the right of the image, event details are provided: "Date: 03/10/2019 - 08:00 (All day)" and "Location: Online", with an "Add to Calendar" button. Below this, a section titled "Partner search request for ICT-48-2020:" lists "UNIVERSITAT POLITECNICA DE VALENCIA" as the contact organization. Another section states "12 organizations offer expertise for ICT-45-2020" and lists "Reinforcing European presence in international ICT standardisation: Standardisation Observatory and Support Facility" as an example, with a "View the list" link. The main text area contains a paragraph about the event: "Ideal-ist is holding a proposal check event for ICT & related calls in Horizon 2020 with a November 2019 deadline. The event will take place on October 3rd in Brussels (hosted by NCP Flanders), but proposers will be able to participate remotely, as well." It also explains that full proposal check events offer proposers a chance to improve proposal quality based on feedback from experts and NCPs. A "Procedure" section follows, with a sub-section for "On-site attendants" stating that interested proposers will provide a draft proposal for feedback during the event.



IDEAL-IST

Welcome to the Ideal-ist Topic Tree!

The Topic Tree is a visual tool illustrating connections between closed, open and forthcoming Horizon 2020 topics related to ICT. It helps you to identify historical and future links to call topics and offers you background information provided by Ideal-ist and EC Participant Portal.

You can customise the Topic Tree view using controls on the left-hand side. The panel on the right-hand side displays basic information related to chosen topics.

[Topic Tree Tutorial v0.11.5 PUBLIC](#)

Search:

Select Topic Deadline:
 All

Filter by Deadline Range:
 Year range: 2014 - 2019

Topic Status:
 Closed
 Open
 Forthcoming

Work Programme:
 All selected (6)
 Reset All Filters

Settings
 Show Evolution Of Topics
 Show Full Topic Titles
 Show Fullscreen View

Data Update Date: 06/11/2018 09:47:38
 Current Date: 12/09/2019



User Information

Visualization

Each node represents a topic. The size corresponds to the total budget of that topic. The color corresponds to the status of the topic. The weight of links represents how strongly they are connected.

Links

Connections are defined by Ideal-ist experts. Click on a topic to get access to more details on it and the connected nodes. Hover over a link to see how two topics are connected.

Link strength

The current logic for defining link strength is:
• Strong/Strength 3 if (part of) a topic is taken without major changes and directly linked to (part of) another topic.
• Medium/Strength 2 if (part of) a topic is changed (e.g. split up, focus changed) but still directly linked to (part of) another.
• Weak/Strength 1 if (part of) a topic is related in any other way (e.g. application of research) to (part of) another topic.
Use search, filter and settings options on the left to define the desired representation for your topics of interest.

Ideal-ist Topic Tree