

Digitizing European Industry - Horizon 2020 Topics 2018–2020

Topics on “Digitizing European Industry” have been assigned to the following three categories:

1. Contribute to Technologies p 1-2
2. Integrating Technologies p 2-4
3. Harnessing the European Ecosystem p 4-6

- All topic identification numbers (Topic ID) are hyperlinked to the full-length topic text containing call conditions and budget.
- Topics with the year “2020” in the Topic ID are not hyperlinked because the full topic text and deadlines are yet to be defined (tbd).
- Links to the Horizon 2020 Work Programmes 2018-2020 per Area are at the end of this document.

Category 1: Contribute to Technologies

Topic ID	Topic Title	Deadline(s)	Work Programme Area	Contact Person
DT-FoF-12-2019	Handling systems for flexible materials	21 February 2019	NMBP	cornelia.spycher@euresearch.ch
DT-NMBP-18-2019	Materials, manufacturing processes and devices for organic and large area electronics (2-stage call)	22 January 2019 03 September 2019	NMBP	cornelia.spycher@euresearch.ch
DT-NMBP-19-2019	Advanced materials for additive manufacturing (2-stage call)	22 January 2019 03 September 2019	NMBP	cornelia.spycher@euresearch.ch
ICT-01-2019	Computing technologies and engineering methods for cyber-physical systems of systems	28 March 2019	ICT	francesco.kienzle@euresearch.ch
ICT-03-2018-2019	Photonics Manufacturing Pilot Lines for Photonic Components and Devices	2018: 17 April 2018 2019: 28 March 2019	ICT	francesco.kienzle@euresearch.ch
ICT-05-2019	Application driven Photonics components	28 March 2019	ICT	francesco.kienzle@euresearch.ch
ICT-06-2019	Unconventional Nanoelectronics	28 March 2019	ICT	francesco.kienzle@euresearch.ch
ICT-08-2019	Security and resilience for collaborative manufacturing environments	28 March 2019	ICT	francesco.kienzle@euresearch.ch
ICT-09-2019-2020	Robotics in Application Areas	2019: 28 March 2019 2020: tbd	ICT	francesco.kienzle@euresearch.ch
ICT-10-2019-2020	Robotics Core Technology	2019: 28 March 2019 2020: tbd	ICT	francesco.kienzle@euresearch.ch
ICT-11-2018-2019	HPC and Big Data enabled Large-scale Test-beds and Applications	2018: 17 April 2018 2019: 14 November 2018	ICT	francesco.kienzle@euresearch.ch
ICT-12-2018-2020	Big Data technologies and extreme-scale analytics	2018: 17 April 2018 2020: tbd	ICT	francesco.kienzle@euresearch.ch
ICT-13-2018-2019	Supporting the emergence of data markets and the data economy	2018: 17 April 2018 2019: 28 March 2019	ICT	francesco.kienzle@euresearch.ch
ICT-14-2019	Co-designing Extreme Scale Demonstrators (EsD)	14 November 2018	ICT	francesco.kienzle@euresearch.ch

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ICT-15-2019-2020	Cloud Computing	2019: 28 March 2019 2020: tbd	ICT	francesco.kienzle@euresearch.ch
ICT-19-2019	Advanced 5G validation trials across multiple vertical industries	14 November 2018	ICT	francesco.kienzle@euresearch.ch
ICT-20-2019-2020	5G Long Term Evolution	2019: 28 March 2019 2020: tbd	ICT	francesco.kienzle@euresearch.ch
ICT-23-2019	EU-Taiwan 5G collaboration	15 January 2019	ICT	francesco.kienzle@euresearch.ch
SU-ICT-01-2018	Dynamic countering of cyber-attacks	28 August 2018	ICT	francesco.kienzle@euresearch.ch
SU-ICT-02-2020	Building blocks for resilience in evolving ICT systems	19 November 2019	ICT	francesco.kienzle@euresearch.ch
SU-ICT-03-2020	Advanced cybersecurity and digital privacy technologies	tbd	ICT	francesco.kienzle@euresearch.ch
SC1-BHC-13-2019	Mining big data for early detection of infectious disease threats driven by climate change and other factors	16 April 2019	Health	agnes.szeberenyi@euresearch.ch
SC1-DTH-06-2020	Accelerating the uptake of in-silico methods for testing medicines with dermatological use	tbd	Health	agnes.szeberenyi@euresearch.ch

Category 2: Integrating Technologies

Topic ID	Topic Title	Deadline(s)	Work Programme Area	Contact Person
DT-NMBP-08-2019	Real-time nano-characterisation technologies (2-stage call)	22 January 2019 03 September 2019	NMBP	cornelia.spycher@euresearch.ch
DT-FoF-06-2019	Refurbishment and re-manufacturing of large industrial equipment	21 February 2019	NMBP	cornelia.spycher@euresearch.ch
DT-FoF-08-2019	Pilot lines for modular factories	21 February 2019	NMBP	cornelia.spycher@euresearch.ch
DT-SPIRE-06-2019	Digital technologies for improved performance in cognitive production plants	21 February 2019	NMBP	cornelia.spycher@euresearch.ch
ICT-24-2018-2019	Next Generation Internet - An Open Internet Initiative	2018: 17 April 2018 2019: 28 March 2019	ICT	francesco.kienzle@euresearch.ch
ICT-25-2018-2020	Interactive Technologies	2018: 14 November 2018 2020: tbd	ICT	francesco.kienzle@euresearch.ch
ICT-30-2019-2020	An empowering, inclusive Next Generation Internet	28 March 2019	ICT	francesco.kienzle@euresearch.ch
ICT-31-2018-2019	EU-US collaboration on NGI	2018: 17 April 2018 2019: 28 March 2019	ICT	francesco.kienzle@euresearch.ch
SU-ICT-04-2019	Quantum Key Distribution testbed	28 August 2018	ICT	francesco.kienzle@euresearch.ch
DT-SPACE-EGNSS-2-2019-2020	EGNSS applications fostering digitisation	2019: 05 March 2019	Space	peter.erni@euresearch.ch
DT-TDS-01-2019	Smart and healthy living at home	14 November 2018	Health	agnes.szeberenyi@euresearch.ch

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				@euresearch.ch
DT-ICT-12-2020	The smart hospital of the future	tbd	Health	agnes.szeberenyi @euresearch.ch
SC1-BHC-06-2020	Digital diagnostics-developing tools for clinical decisions integrating in vitro and in vivo diagnostic	tbd	Health	sasha.hugentobler @euresearch.ch
SC1-DTH-04-2020	International cooperation in digital solutions and robotics for independent living	tbd	Health	agnes.szeberenyi @euresearch.ch
SC1-DTH-05-2019	Large scale implementation of digital innovation for health and care in an ageing society	24 April 2019	Health	agnes.szeberenyi @euresearch.ch
SC1-DTH-10-2019-2020	Digital health and care services	14 November 2018	Health	agnes.szeberenyi @euresearch.ch
SC1-DTH-11-2019	Large-scale pilots of personalised & outcome based integrated care	24 April 2019	Health	agnes.szeberenyi @euresearch.ch
SC1-HCC-08-2020	Scaling up innovation for active and healthy ageing	tbd	Health	agnes.szeberenyi @euresearch.ch
SC1-HCC-09-2020	Supporting deployment of eHealth in developing countries for better health outcomes	tbd	Health	agnes.szeberenyi @euresearch.ch
MG-2-7-2019	Safety in an evolving road mobility environment (2-stage call)	16 January 2019 12 September 2019	Transport	nicole.wyss @euresearch.ch
MG-2-8-2019	Innovative applications of drones for ensuring safety in transport (2-stage call)	16 January 2019 12 September 2019	Transport	nicole.wyss @euresearch.ch
DT-ART-03-2019	Human centred design for the new driver role in highly automated vehicles	24 April 2019	Transport	nicole.wyss @euresearch.ch
GOVERNANCE-12-2019-2020	Pilot on using the European cloud infrastructure for public administrations	2019: 14 March 2019 2020: tbd	Inclusive Societies	joel.graf @euresearch.ch
GOVERNANCE-13-2019	Digitisation, Digital Single Market and European culture: new challenges for creativity, intellectual property rights and copyright	14 March 2019	Inclusive Societies	joel.graf @euresearch.ch
DT-MIGRATION-06-2018-2019	Addressing the challenge of migrant integration through ICT-enabled solutions	2019: 14 March 2019	Inclusive Societies	joel.graf @euresearch.ch
TRANSFORMATIONS-02-2018-2019-2020	Transformative impact of disruptive technologies in public services	2019: 14 March 2019 2020: tbd	Inclusive Societies	joel.graf @euresearch.ch
TRANSFORMATIONS-12-2018-2020	Curation of digital assets and advanced digitisation	2020: tbd	Inclusive Societies	joel.graf @euresearch.ch
TRANSFORMATIONS-13-2019	Using big data approaches in research and innovation policy making	14 March 2019	Inclusive Societies	joel.graf @euresearch.ch
SU-INFRA01-2018-2019-2020	Prevention, detection, response and mitigation of the combination of physical and cyber threats to the critical infrastructure of Europe	23 August 2018 22 August 2019 2020: tbd	Security	joel.graf @euresearch.ch
SU-FCT03-2018-2019-2020	Information and data stream management to fight against (cyber)crime and terrorism	2018: 23 August 2018 2019: 22 August 2019 2020: tbd	Security	joel.graf @euresearch.ch
SU-DS01-2018	Cybersecurity preparedness - cyber range, simulation and economics	23 August 2018	Security	joel.graf @euresearch.ch

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SU-DS02-2020	Management of cyber-attacks and other risks	tbd	Security	joel.graf@euresearch.ch
SU-DS03-2019-2020	Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises	2019: 22 August 2019 2020: tbd	Security	joel.graf@euresearch.ch
SU-DS04-2018-2020	Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches	2018: 23 August 2018 2020: tbd	Security	joel.graf@euresearch.ch
SU-DS05-2018-2019	Digital security, privacy, data protection and accountability in critical sectors	2018: 23 August 2018 2019: 22 August 2019	Security	joel.graf@euresearch.ch

Category 3: Harnessing the European Ecosystem

Topic ID	Topic Title	Deadline(s)	Work Programme Area	Contact Person
DT-NMBP-03-2019	Open Innovation Test Beds for nano-enabled surfaces and membranes (2-stage call)	22 January 2019 03 September 2019	NMBP	cornelia.spycher@euresearch.ch
DT-NMBP-04-2020	Open Innovation Test Beds for bio-based nano-materials and solutions	tbd	NMBP	cornelia.spycher@euresearch.ch
DT-NMBP-05-2020	Open Innovation Test Beds for functional materials for building envelopes	tbd	NMBP	cornelia.spycher@euresearch.ch
DT-NMBP-06-2020	Open Innovation Test Beds for nano-pharmaceuticals production	tbd	NMBP	cornelia.spycher@euresearch.ch
DT-NMBP-11-2020	Open Innovation Test Beds for Materials Modelling	tbd	NMBP	cornelia.spycher@euresearch.ch
DT-FoF-05-2019	Open Innovation for collaborative production engineering	21 February 2019	NMBP	cornelia.spycher@euresearch.ch
DT-ICT-01-2019	Smart Anything Everywhere	02 April 2019	ICT	francesco.kienzle@euresearch.ch
DT-ICT-03-2020	I4MS (phase 4) - uptake of digital game changers and digital manufacturing platforms	tbd	ICT	francesco.kienzle@euresearch.ch
DT-ICT-04-2020	Photonics Innovation Hubs	tbd	ICT	francesco.kienzle@euresearch.ch
DT-ICT-05-2020	Big Data Innovation Hubs	tbd	ICT	francesco.kienzle@euresearch.ch
DT-ICT-07-2018-2019	Digital Manufacturing Platforms for Connected Smart Factories	2019: 02 April 2019	ICT	francesco.kienzle@euresearch.ch
DT-ICT-08-2019	Agricultural digital integration platforms	14 November 2018	ICT	francesco.kienzle@euresearch.ch
DT-ICT-09-2020	Digital service platforms for rural economies	tbd	ICT	francesco.kienzle@euresearch.ch
DT-ICT-10-2018-19	Interoperable and smart homes and grids	2018: 14 November 2018 2019: tbd	ICT	francesco.kienzle@euresearch.ch
DT-ICT-11-2019	Big data solutions for energy	02 April 2019	ICT	francesco.kienzle@euresearch.ch

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DT-ICT-12-2020	The smart hospital of the future	tbd	ICT	francesco.kienzle@euresearch.ch
DT-ICT-13-2019	Digital Platforms/Pilots Horizontal Activities	14 November 2018	ICT	francesco.kienzle@euresearch.ch
SC1-HCC-02-2019	Support for the large-scale uptake of open service platforms in the Active and Healthy Ageing domain	24 April 2019	Health	agnes.szeberenyi@euresearch.ch
SC1-HCC-06-2020	Support to eHealth Innovation ecosystems in Europe	tbd	Health	agnes.szeberenyi@euresearch.ch
SC1-HCC-07-2020	Support for European eHealth Interoperability roadmap deployment	tbd	Health	agnes.szeberenyi@euresearch.ch
DT-BG-04-2018-2019	Sustainable European aquaculture 4.0: nutrition and breeding	2019: 23 January 2019	Food	gerhard.gass@euresearch.ch
DT-ART-04-2019	Developing and testing shared, connected and cooperative automated vehicle fleets in urban areas for the mobility of all	24 April 2019	Transport	nicole.wyss@euresearch.ch

Horizon 2020 **Work Programmes 2018-2020** per thematic area are available here:

Nanotechnologies, Advanced Materials, Biotechnology, Advanced Manufacturing and Processing (NMBP)

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-leit-nmp_en.pdf

Information and Communication Technologies (ICT)

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-leit-ict_en.pdf

Space

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-leit-space_en.pdf

Health

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-health_en.pdf

Food

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-food_en.pdf

Energy

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-energy_en.pdf

Transport

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-transport_en.pdf

Climate/Environment

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-climate_en.pdf

Inclusive Societies

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-societies_en.pdf

Security

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-security_en.pdf

Science with and for Society (SWAFS)

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-swfs_en.pdf

Other Work Programme – Innovation in SMEs

Beyond the ICT part of Horizon 2020, Big Data, robotics or AI-related topics can be addressed in SME or large companies specific funding schemes

SME Instrument Topic		
<p><u>EIC-SMEInst-2018-2020: SME instrument:</u></p> <p>Supports high-risk, high-potential small and medium enterprises (SME) with global ambition to develop and bring new products to the market. The support is structured in three independent phases:</p> <ul style="list-style-type: none"> Phase 1: feasibility study, lump sum 50'000 € Phase 2: to market ready product, 0.5-2.5 Million € Phase 3: Business support <p>SMEs can apply directly to phase 2.</p> <p>EU contribution: EUR 0.5-2.5 Million (RIA)</p>	<p><i>Deadlines Ph1:</i></p> <p>05.09.2018 07.11.2018 13.02.2019 07.05.2019 05.09.2019 06.11.2019 12.02.2020 06.05.2020 02.09.2020 04.11.2020</p>	<p><i>Deadlines Ph2:</i></p> <p>10.10.2018 09.01.2019 03.04.2019 05.06.2019 09.10.2019 08.01.2020 18.03.2020 19.05.2020 07.10.2020</p>
<p>Topic EIC-FTI-2018-2020: Fast Track to Innovation (FTI):</p> <p>Test, demonstrate and validate innovative products in a pan-European consortium of industries and research institutes.</p> <p>EU contribution: up to EUR 3 Million (RIA)</p>	<p><i>Deadlines</i></p> <p>23.10.2018 21.02.2019 23.05.2019 22.10.2019 19.02.2020 09.06.2020 27.10.2020</p>	

Got Questions? Contact us!


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