



PCN - Horizon2020

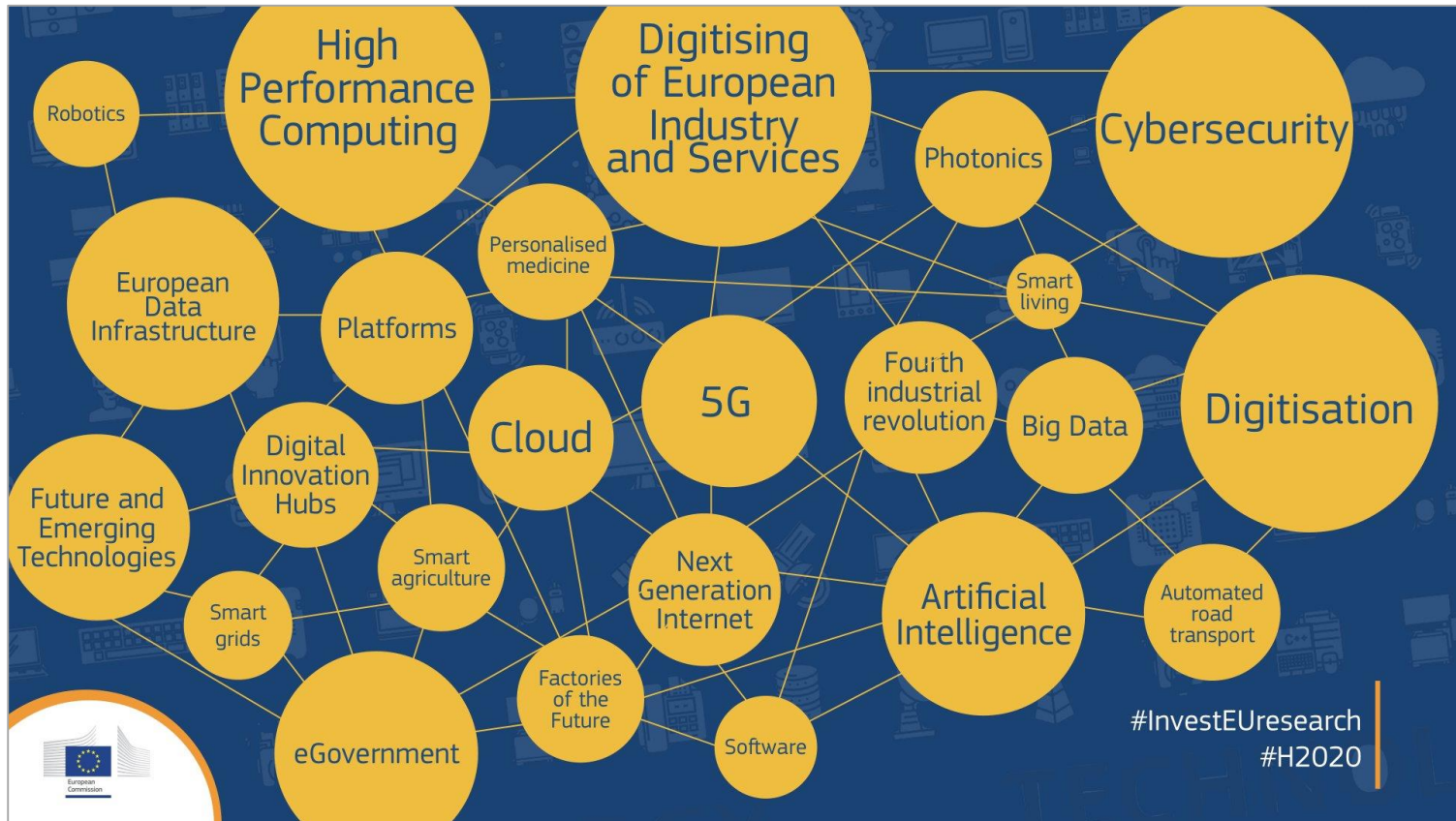
HORIZON 2020

LE PROGRAMME DE RECHERCHE ET
D'INNOVATION DE L'UNION EUROPÉENNE

Les opportunités TIC 2018-2020 Les TIC dans les défis sociétaux

14 Novembre 2017 - Marseille

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LES TIC DANS H2020

LES TIC SONT TRANSVERSALES A H2020

[GUIDE DES TIC DANS H2020](#)

Les priorités



Les TIC se retrouvent à travers l'ensemble des 7 défis sociétaux:

- SC1 : Santé (DG CONNECT €)
- SC2 : Bioéconomie
- SC3 : Energie
- SC4 : Transports
- SC5 : Changement climatique et ressources
- SC6 : Sociétés inclusives (DG CONNECT €)
- SC7 : Sécurité (DG CONNECT €)



LES TIC DANS H2020

Les TIC dans le défi Santé, démographie, bien-être

Santé, démographie, bien-être



Les TIC jouent un rôle prépondérant dans ce défi à travers **2 appels** dédiés:

- **Transformation numérique en soin et santé / 'Digital transformation in Health and Care'**
- **Cybersécurité et solutions numériques fiables pour le soin et la santé / 'Trusted digital solutions and cybersecurity in Health and Care'**
- Il y a quelques sujets dans la partie dédiée à la **Médecine Personnalisée / 'Personalised medicine'**

Médecine personnalisée

| SUJETS | 2018 (M€) | 2019 (M€) |
|--|--------------|--------------|
| Médecine personnalisée | | |
| SC1-BHC-05-2018: International flagship collaboration with Canada for human data storage, integration and sharing to enable personalised medicine approaches (RIA) | 40,00 | |
| SC1-HCO-01-2018-2019-2020: Actions in support of the International Consortium for Personalised Medicine (CSA) | 8,00 | 4,00 |
| SC1-HCO-02-2018: Data integration and data-driven in-silico models for enabling personalised medicine - a European standardization framework (CSA) | 2,00 | |
| Maladies infectieuses | | |
| SC1-BHC-13-2019: Mining big data for early detection of infectious disease threats driven by climate change and other factors | | 30,00 |

Transformation numérique en soin et santé - DTH



| SUJETS | 2018 (M€) | 2019 (M€) |
|--|--------------|--------------|
| SC1-DTH-01-2019: Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment (RIA) | | 35,00 |
| SC1-DTH-03-2018: Adaptive smart working and living environments supporting active and healthy ageing (RIA) | 25,00 | |
| SC1-DTH-05-2019: Large scale implementation of digital innovation for health and care in an ageing society (PPI) | | 10,00 |
| SC1-DTH-07-2018: Exploiting the full potential of in-silico medicine research for personalised diagnostics and therapies in cloud-based environments (RIA) | 35,00 | |
| SC1-DTH-08-2018: Prototyping a European interoperable Electronic Health Record (EHR) exchange (RIA) | 30,00 | |
| SC1-DTH-09-2019: Scaling up the univocal Identification of Medicinal Products (IA) | | 19,00 |
| SC1-DTH-10-2019-2020: Digital health and care services (PCP) 26.07.18-24.04.18 | 22,00 | |
| SC1-DTH-11-2019: Large Scale pilots of personalised & outcome based integrated care (IA) | | 20,00 |

Transformation numérique en soin et santé - HCC



| SUJETS | 2018 (M€) | 2019 (M€) |
|--|--------------|--------------|
| SC1-HCC-01-2018: Supporting investment in smart living environments for ageing well through certification (CSA) | 1,00 | |
| SC1-HCC-02-2019: Support for the large scale uptake of open service platforms in the Active and Healthy Ageing domain (CSA) | | 1,50 |
| SC1-HCC-03-2018: Support to further development of international cooperation in digital transformation of health and care (CSA) | 2,00 | |
| SC1-HCC-04-2018: Digital health and care services – support for strategy and (early) adoption (CSA) | 3,00 | |
| SC1-HCC-05-2018: Support to a Digital Health and Care Innovation initiative in the context of Digital Single Market strategy (CSA) | 4,00 | |



LES TIC DANS H2020

Les TIC dans le défi Bioéconomie

Bioéconomie



En plus des 2 sujets couverts dans le programme de travail LEIT ICT 2018-2020 (dans les plateformes et pilotes), chacun des **3 appels** suivants contiennent des sujets pertinents pour les TIC :

- **‘Sustainable Food Security’** (SFS) / Sécurité Alimentaire Durable
- **‘Blue Growth’** / Croissance bleue,
- **‘Rural Renaissance’** (RUR) / Renaissance Rurale

Sécurité Alimentaire Durable

Blue Growth



| SUJETS | 2018 (M€) | 2019 (M€) |
|---|--------------|--------------|
| Sécurité Alimentaire Durable (SFS) | | |
| DT-SFS-14-2018: Personalized Nutrition (IA) | 28,00 | |
| DT-SFS-26-2019: Food Cloud demonstrators (IA) | | 10,00 |
| SFS-31-2019: ERANETs in agri-food (ERA-NET Cofund) A. (2019) ICT-enabled agri-food systems | | 21,00 |
| Blue Growth | | |
| BG-02-2018: Blue Bioeconomy Public-Public Partnership (ERA-NET Cofund) | 8,00 | |
| DT-BG-04-2018-2019: Sustainable European aquaculture 4.0: nutrition and breeding (IA) | | 6,00 |

Renaissance Rurale



| SUJETS | 2018 (M€) | 2019 (M€) |
|---|--------------|--------------|
| Renaissance Rurale (RUR) | | |
| RUR-02-2018: Socio-economic impacts of digitisation of agriculture and rural areas (2 étapes) (RIA) | 5,00 | |
| DT-RUR-12-2018: ICT Innovation for agriculture – Digital Innovation Hubs for Agriculture (IA) | 20,00 | |
| RUR-13-2018: Enabling the farm advisor community to prepare farmers for the digital age (CSA) | 7,00 | |
| RUR-14-2018: Digital solutions and e-tools to modernise the Common Agricultural Policy-CAP (IA) | 10,00 | |



LES TIC DANS H2020

Les TIC dans le défi énergies sûres, propres et efficaces

Les énergies sûres, propres et efficaces



Les sujets TIC peuvent être trouvés dans les 4 parties de l'appel :

- Efficacité énergétique / 'Energy efficiency',
- 'Smart and clean energy for consumers',
- 'Smart citizen-centred energy system',
- 'Smart Cities and Communities'.

Energies sûres

| SUJETS | 2018 (M€) | 2019 (M€) |
|---|--------------|--------------|
| Efficacité énergétique | | |
| LC-SC3-EE-4-2019-2020: Upgrading smartness of existing buildings through innovations for legacy equipment (IA) | | 10,00 |
| LC-SC3-EE-13-2018-2019-2020: Enabling next-generation of smart energy services valorising energy efficiency and flexibility at demand-side as energy resource (2018 CSA, 2019 IA) | 4,00 | 8,00 |
| Energie intelligente et propre pour les consommateurs | | |
| LC-SC3-EC-1-2018-2019-2020: The role of consumers in changing the market through informed decision and collective actions (CSA) | 5,00 | 5,00 |
| Smart Cities and Communities | | |
| LC-SC3-SCC-1-2018-2019-2020: Smart Cities and Communities (IA) | 43,00 | 73,00 |

Energies sûres



| SUJETS | 2018 (M€) | 2019 (M€) |
|--|--------------|--------------|
| Smart citizen-centred energy system | | |
| LC-SC3-ES-1-2019: Flexibility and retail market options for the distribution grid (IA) | | 37,30 |
| LC-SC3-ES-2-2019: Solutions for increased regional cross-border cooperation in the transmission grid (IA) | | 25,00 |
| LC-SC3-ES-3-2018-2020: Integrated local energy systems (Energy islands) (IA) | 26,30 | |
| LC-SC3-ES-4-2018-2020: Decarbonising energy systems of geographical Islands (IA) | 19,00 | |
| LC-SC3-ES-5-2018-2020: TSO – DSO – Consumer: Large-scale demonstrations of innovative grid services through demand response, storage and small-scale (RES) generation (IA) | 30,00 | |
| LC-SC3-ES-6-2019: Research on advanced tools and technological development (RIA) | | 25,3 |



LES TIC DANS H2020

Les TIC dans le défi Transport

Transport



Sur les 3 appels du programme transport, l'un des sujets est totalement dédié aux TIC et l'utilisation des TIC peut être pertinente dans les 2 autres appels :

- **'Automated road transport' (ART) / Transport routier automatisé**
- **'Mobility for growth' (MG) / Mobilité pour la croissance,**
- **'Green vehicles' (GV) / Véhicules Verts.**

Transport

| SUJETS | 2018 (M€) | 2019 (M€) |
|--|--------------|--------------|
| Transport routier automatisé | | |
| DT-ART-01-2018: Testing, validation and certification procedures for highly automated driving functions under various traffic scenarios based on pilot test data (RIA) | 6,00 | |
| DT-ART-02-2018: Support for networking activities and impact assessment for road automation (RIA-CSA) | 6,00 3,00 | |
| DT-ART-03-2019: Human centred design for the new driver role in highly automated vehicles (RIA) | | 8,00 |
| DT-ART-04-2019: Developing and testing shared, connected and cooperative automated vehicle fleets in urban areas for the mobility of all (IA) | | 30,00 |

Transport - Mobilité pour la Croissance



| SUJETS | 2018 (M€) | 2019 (M€) |
|---|--------------|--------------|
| Safe, integrated and resilient transport systems | | |
| MG-2-6-2019: Moving freight by Water: Sustainable Infrastructure and Innovative Vessels (RIA) | | 30,00 |
| MG-2-7-2019: Safety in an evolving road mobility environment (RIA) | | 8,00 |
| Global leadership and competitiveness | | |
| MG-3-1-2018: Multidisciplinary and collaborative aircraft design tools and processes (RIA) | 12,00 | |
| MG-3-2-2018: The Autonomous Ship (IA) | 20,00 | |
| Accounting for the people | | |
| MG-4-5-2019: An inclusive digitally interconnected transport system meeting citizens' needs (RIA) | | 7,00 |
| Blue growth | | |
| MG-BG-01-2018: Unmanned and autonomous survey activities at sea (RIA) | 8,00 | |

Transport - Véhicules verts

| SUJETS | 2018 (M€) | 2019 (M€) |
|---|--------------|--------------|
| Building a low-carbon, climate resilient future: Green Vehicles | | |
| LC-GV-01-2018: Integrated, brand-independent architectures, components and systems for next generation electrified vehicles optimised for the infrastructure (IA) | 42,00 | |
| LC-GV-02-2018: Virtual product development and production of all types of electrified vehicles and components (RIA) | 14,00 | |
| LC-GV-04-2019: Low-emissions propulsion for long-distance trucks and coaches (IA) | | 25,00 |



LES TIC DANS H2020

Les TIC dans le défi Changement climatique

Changement climatique et ressources



Les sujets TIC se retrouvent dans l'appel:

- **'Greening the economy in line with the Sustainable Development Goals (SDGs)'** dans les parties suivantes :
 - 'Connecting economic and environmental gains - the circular economy', 'Raw materials',
 - 'Water for our environment, economy and society'.

Changement climatique et ressources



| SUJETS | 2018 (M€) | 2019 (M€) |
|---|--------------|--------------|
| Connecting economic and environmental gains - the circulareconomy | | |
| CE-SC5-03-2018: Demonstrating systemic urban development for circular and regenerative cities (IA) | 39,00 | |
| CE-SC5-04-2019: Building a water-smart economy and society (IA) | | 72,00 |
| Raw materials | | |
| SC5-09-2018-2019: New solutions for the sustainable production of raw materials (RIA) | 20,00 | 30,00 |
| SC5-10-2019-2020: Raw materials innovation actions: exploration and Earth observation in support of sustainable mining (IA) | | 20,00 |
| Water for our environment, economy and society | | |
| SC5-11-2018: Digital solutions for water: linking the physical and digital world for water solutions (IA) | 14,00 | |
| SC5-12-2018: EU-India water co-operation (RIA) | 15,00 | |



LES TIC DANS H2020

Les TIC dans le défi Sociétés inclusives

Sociétés inclusives



Les sujets TIC se retrouvent dans les 3 appels principaux :

- **‘Migration’ / Migration,**
- **‘Socioeconomic and cultural transformations in the context of the fourth industrial revolution’ / Transformation,**
- **‘Governance for the future’ / Gouvernance.**

Sociétés inclusives



| SUJETS | 2018 (M€) | 2019 (M€) |
|--|--------------|--------------|
| Migration | | |
| DT-MIGRATION-06-2018-2019: Addressing the challenge of migrant integration through ICT-enabled solutions | 12,00 | 8,00 |
| Governance for the future | | |
| DT-GOVERNANCE-05-2018-2019-2020: New forms of delivering public goods and inclusive public services | 1,5 | 8,00 |
| DT-GOVERNANCE-12-2019-2020: Pilot on using the European cloud infrastructure for public administrations | | 8,00 |
| DT-GOVERNANCE-13-2019: Digitisation, Digital Single Market and European culture: new challenges for creativity, intellectual property rights and copyright | | 9,00 |

Sociétés inclusives



| SUJETS | 2018 (M€) | 2019 (M€) |
|---|--------------|--------------|
| Socioeconomic and cultural transformations in the context of the fourth industrial revolution | | |
| TRANSFORMATIONS-01-2018: Research for inclusive growth: addressing the socioeconomic effects of technological transformations | 9,00 | |
| DT-TRANSFORMATIONS-02-2018-2019-2020: Transformative impact of disruptive technologies in public services | 9,00 | 7,00 |
| TRANSFORMATIONS-03-2018-2019: Innovative solutions for inclusive and sustainable urban environments | 1,50 | 6,00 |
| DT-TRANSFORMATIONS-07-2019: The impact of technological transformations on children and youth | | 10,50 |
| DT-TRANSFORMATIONS-11-2019: Collaborative approaches to cultural heritage for social cohesion | | 12,00 |
| DT-TRANSFORMATIONS-12-2018-2020: Curation of digital assets and advanced digitisation | 10,00 | |
| TRANSFORMATIONS-13-2019: Using big data approaches in research and innovation policy making | 1,9 | |



LES TIC DANS H2020

Les TIC dans le défi Sécurité

Sécurité



Le programme sécurité est composé de 3 appels dont 2 sont particulièrement pertinents pour les TIC. Le 3^{ème} appel a des sujets pertinents pour les TIC:

- **‘Protecting the infrastructure of Europe and the people of the European smart cities’,**
- **‘Digital Security’,**
- **‘Security’**

Sécurité

| SUJETS | 2018 (M€) | 2019 (M€) |
|---|--------------|--------------|
| Cybersecurity, Digital Privacy and data protection | | |
| SU-DS01-2018: Cybersecurity preparedness - cyber range, simulation and economics (IA) | 16,00 | |
| SU-DS03-2019-2020: Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises | | 18,00 |
| SU-DS04-2018-2020: Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches (IA) | 20,00 | |
| SU-DS05-2018-2019: Digital security, privacy, data protection and accountability in critical sectors (IA) | 8,5 | 20,00 |

Sécurité

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

Protecting the infrastructure of Europe and the people in the European smart cities

| | | | | | |
|---------------------------|--|------|----------|----------|----------|
| SU-INFRA01-2018-2019-2020 | Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe | 24.0 | 15/03/18 | 23/08/18 | |
| | | 22.0 | 14/03/19 | | 22/08/19 |
| SU-INFRA02-2019 | Security for smart and safe cities, including for public space | 16.0 | 14/03/19 | | 22/08/19 |

Security

Disaster-Resilient Societies

| | | | | | |
|-------------------------|-----------------------------------|------|----------|----------|----------|
| SU-DRS02-2018-2019-2020 | Technologies for first responders | 28.0 | 15/03/18 | 23/08/18 | |
| | | 21.0 | 14/03/19 | | 22/08/19 |

Fight against Crime and Terrorism

| | | | | | |
|-------------------------|--|------|----------|----------|----------|
| SU-FCT02-2018-2019-2020 | Technologies to enhance the fight against crime and terrorism | 21.0 | 15/03/18 | 23/08/18 | |
| | | 28.1 | 14/03/19 | | 22/08/19 |
| SU-FCT03-2018-2019-2020 | Information and data stream management to fight against (cyber)crime and terrorism | 8.0 | 15/03/18 | 23/08/18 | |
| | | 8.0 | 14/03/19 | | 22/08/19 |

Border and External Security

| | | | | | |
|-------------------------|--|------|----------|----------|----------|
| SU-BES02-2018-2019-2020 | Technologies to enhance border and external security | 21.0 | 15/03/18 | 23/08/18 | |
| | | 21.0 | 14/03/19 | | 22/08/19 |
| SU-BES03-2018-2019-2020 | Demonstration of applied solutions to enhance border and external security | 10.0 | 15/03/18 | 23/08/18 | |
| | | 10.0 | 14/03/19 | | 22/08/19 |

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Partner Search

Keywords

Country

Call Identifier

Topic

<Any>

Open calls

- 2018-2020 Digitising and Transforming European Industry and Services: Automated Road Transport
- 2018-2020 Mobility for Growth
- Better Health and care, economic growth and sustainable health systems
- Blue Growth
- Building a low-carbon, climate resilient future: Green Vehicles
- BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE: SECURE, CLEAN AND EFFICIENT ENERGY
- Cybersecurity
- Demonstrating the role of Research Infrastructures in the translation of Open Science into Open Innovation
- Digital Security
- Digital transformation in Health and Care
- Digitising and transforming European industry and services: digital innovation hubs and platforms
- EGNSS market uptake 2019-2020
- EU-Japan Joint Call
- EU-Korea Joint Call
- European Data Infrastructure
- FAST TRACK TO INNOVATION (FTI)
- FET FLAGSHIPS – Tackling grand interdisciplinary science and technology challenges
- FET Open – Novel ideas for radically new technologies
- FOUNDATIONS FOR TOMORROW'S INDUSTRY
- GOVERNANCE FOR THE FUTURE
- Greening the economy in line with the Sustainable Development Goals (SDGs)
- Implementing the European Open Science Cloud
- INDUSTRIAL SUSTAINABILITY
- Information and Communication Technologies
- Integrating and opening research infrastructures of European interest
- MIGRATION

Other H2020 calls - looking for ICT expertise - WP 2016-17

| Call Identifier | Topic | Start Date | Call Description | Country | Status |
|-----------------|---|------------|--|---------|---|
| PS-DE-102993 | Domestic Recovery of Scrap using Smart Services (CIRC-01-2016-2017) | 19/12/2016 | Other H2020 calls - looking for ICT expertise - WP 2016-17 | Germany |  |

Partner Searches

Merci de votre attention !

CONTACT

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