

Internet of Things EU strategy and funding opportunities



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What is this about?

Measures that enable all sectors to benefit from digital innovation:

- For higher value products with "digital inside"
- Increased efficiency of processes
- Adapted and reshaped business models including relevant services

These measures benefit from:

- A true Digital Single Market
- World class broadband, cloud and data infrastructures
- Access to sources of financing

Coordination of various initiatives - MS, regional, EU

- Pool resources, avoid fragmentation and support DSM



Internet of Things - 3 pillars

1) Single market for IoT:

IoT devices and services should be able to connect seamlessly and on a plug-and-play basis anywhere in the European Union

2) Thriving IoT ecosystem:

Open platforms used across vertical silos will help developer communities to innovate. As a kick-start, IoT deployments in selected lead markets supported

3) Human-centred IoT:

Respect of European values, empowering people along with machines and businesses, high standards for protection of personal data and security

<https://ec.europa.eu/digital-single-market/en/internet-of-things>

Bridging Innovation and Policy actions



**Better
framework for
consumers and
businesses**

- **Free Flow of Data**
- **Implementation of GDPR**
- **Liability**

<https://ec.europa.eu/digital-single-market/en/news/european-commission-staff-working-document-liability-emerging-digital-technologies>

**Advanced
digital networks
and innovative
services**

- **Telecoms infrastructure/services**
- **Media services**
- **Platforms and intermediaries**

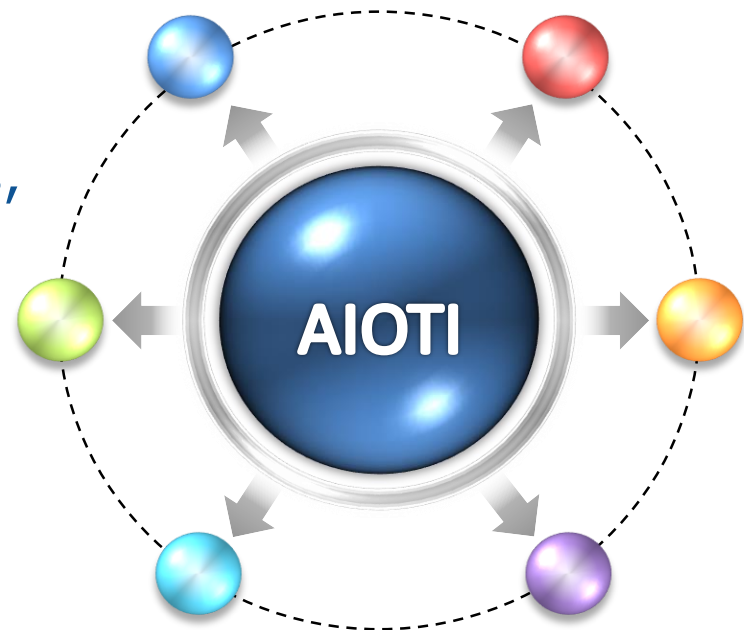
- **Trust and security**

eg Network Information Security (NIS/ENISA)

**Enhance the
digital economy**

- **Data economy**
- **Inclusive digital economy and society**
- **Developing sustainable Ecosystems**
- **Interoperability and standardisation**

- Support LSPs to connect to IoT innovation ecosystems across the value chain /across silos
 - e.g. role of connectivity
- Putting IoT on the map and link to PPPs, JTI, and national initiatives
 - ECSEL, BDVA PPP, PPP FoF
- Advancing IoT convergence across verticals for standardisation/interoperability
- Discussing with industry to provide guidance for IoT in the DSM policy
 - Role of certification / GDPR implementation



Strategy for IoT Leadership

2014-15 Building the IoT- EPI cluster (**E**uropean **P**latforms **I**nitiative)

EPI: Building the eco-system, breaking silos CPS-IoT, Using architectures integrating devices, systems and networks for a multiplicity of novel applications

<http://iot-epi.eu>

55 Mill €

2016-17 Building the IoT Focus Area

LSPs: Focus Area on Internet of Things will focus on experimentation with real-life solutions being tested at large scale with users

+ ODI, FI-ware accelerators, IERC, standardisation etc.

<https://european-iot-pilots.eu/projects/>

100 Mill €

2016-17 Security and Privacy in IoT

Security and Privacy in IoT:

Addressing security, trust and privacy in IoT platforms, services and applications

A particular emphasis is on Blockchain and Distributed Ledger technology as an enabler

37 Mill €

2018-20 FA DEI Strategy

DEI Platforms:

Focus Area Digitising European Industry will focus on integrating digital innovation across societal challenges

+ **DEI Policy support**, e.g. security, privacy, ownership, liability, GDPR .

300 Mill €

EU Markets



What next in H2020: WP 2018 - 2020



Digital Manufacturing Platforms

- Agile Value Networks: Lot-size One
- Zero-defect Processes and Products
- Machines & Human Competences
- Sustainable Value Networks

A digital 'plug and produce' online equipment platform for manufacturing

...



Agricultural Digital Integration Platforms

- Optimize farm operations
- High-precision farming

Digital Service Platforms for Rural Economies

...



Smart Hospital of the Future

Smart and Healthy Living at Home

- Healthy & independent living
- Early risk detection and intervention

...



Interoperable and Smart Homes and Grids

Big Data Solutions for Energy

...

Cross-cutting issues, IoT, Big Data, Security...

Next EU Financial Framework (2021-27)

Horizon Europe, with a budget of **€97.6 billion**, is the biggest ever research and innovation funding programme. It is designed around three pillars:

- the **Open Science pillar** supports researchers through fellowships and exchanges as well as funding to projects defined and driven by researchers themselves, through the European Research Council and the Marie-Skłodowska-Curie actions.
- The **Global challenges pillar** directly supports research relating to societal challenges, setting EU-wide missions with ambitious goals around issues that worry us daily such as such as the fight against cancer, clean mobility and plastic-free oceans. Industrial leadership will be prominent within this pillar and throughout the programme as a whole.
- The **Open Innovation pillar** aims to make Europe a front runner in market-creating innovation. A **European Innovation Council** will offer a one-stop shop for high potential and breakthrough technologies and innovative companies with potential for scaling up.

Open Science

Global challenges

Open Innovation



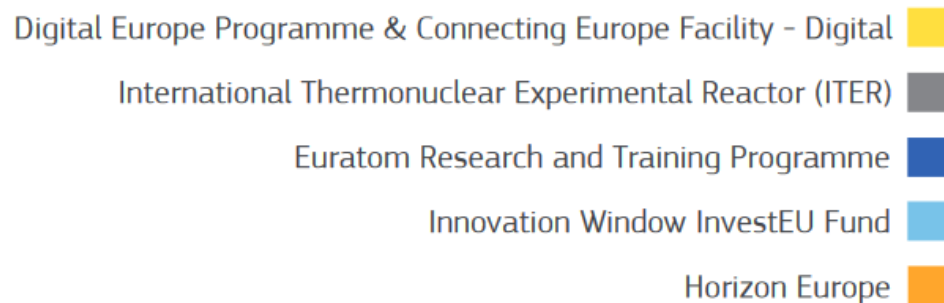
**HORIZON
EUROPE**

https://ec.europa.eu/commission/sites/beta-political/files/budget-proposals-research-innovation-may-2018_en.pdf

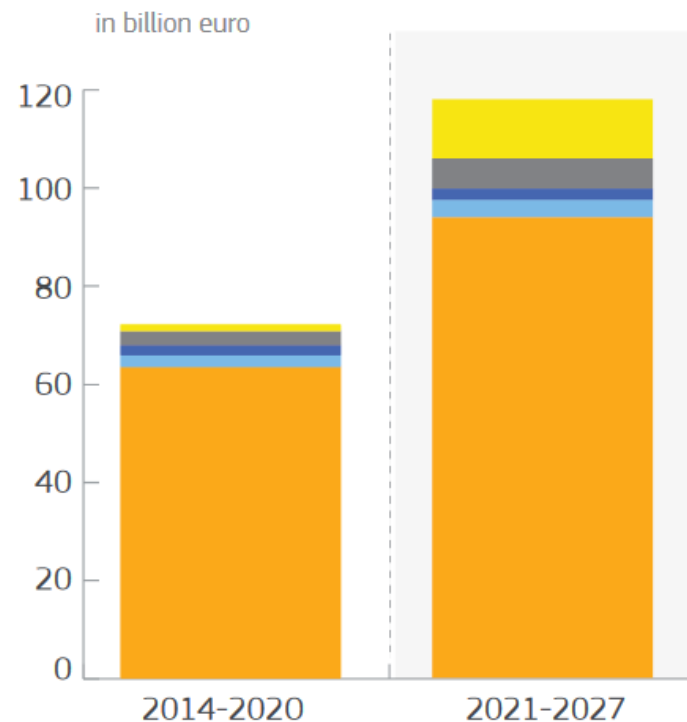
Next EU Financial Framework (2021-27)

The Commission proposes to create a new **Digital Europe programme** with an overall budget of **€9.2 billion** to shape and support the digital transformation of Europe's society and economy.

The digital strand of the **Connecting Europe Facility** has a budget of **€3 billion** which will finance digital connectivity infrastructure.

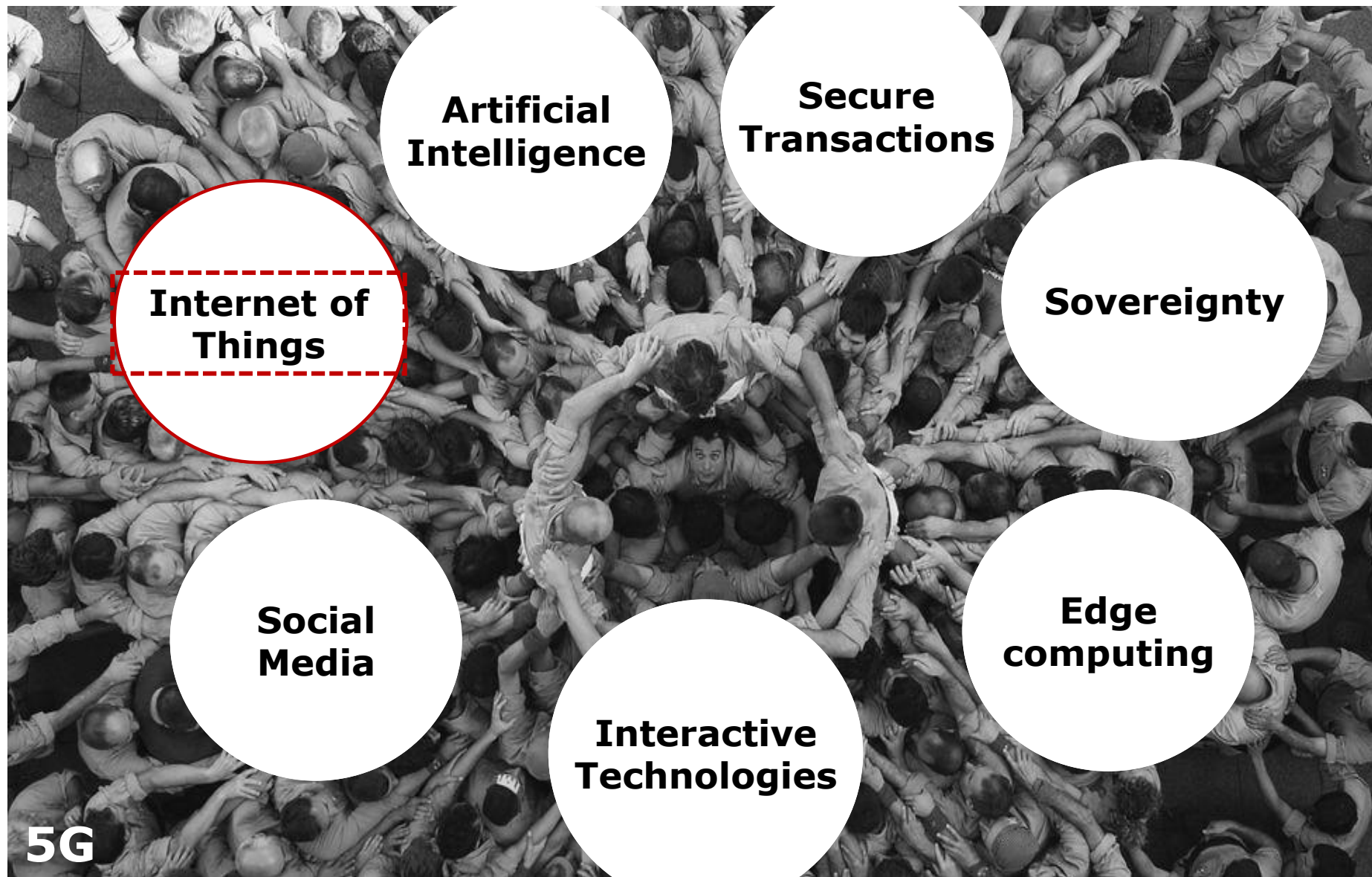


Investing in the future



https://ec.europa.eu/commission/sites/beta-political/files/budget-proposals-digital-transformation-may2018_en.pdf

Next Generation Internet – NGI



Focus Area 'Digitising and transforming European industry and services', Platforms and Pilots

LEIT-ICT

Budget

- **DT-ICT-07-2018-2019: Digital Manufacturing Platforms for Connected Smart Factories** 95 M€
- **DT-ICT-08-2019: Agricultural digital integration platforms** 30 M€
- **DT-ICT-09-2020: Digital service platforms for rural economies** 30 M€
- **DT-ICT-10-2018-2019: Interoperable and smart homes and grids** 30 M€
- **DT-ICT-11-2019: Big data solutions for energy** 30 M€
- **DT-ICT-12-2020: The smart hospital of the future** 25 M€
- **DT-ICT-13-2019: Digital Platforms/Pilots Horizontal Activities** 4 M€

SC1

- **DT-TDS-01-2019: Smart and healthy living at home** 60 M€ H3/E4 H3

(LEIT-NMBP:

- **DT-NMBP-20-2018: A digital 'plug and produce' online equipment platform for manufacturing** 20 M€)

Thank you - useful links

- Digitising European Industry Strategy (DEI):
<https://ec.europa.eu/digital-single-market/en/digitising-european-industry>
- The Alliance of Internet of Things Innovation
<http://www.AIOTI.eu>
- Internet of Things in DAE:
<http://ec.europa.eu/digital-agenda/en/internet-things>
- Horizon 2020 – The EU Framework Programme for research and Innovation:
http://ec.europa.eu/research/horizon2020/index_en.cfm

