HELLENIC REPUBLIC
Ministry of Education, Research and Religious Affairs

GENERAL SECRETARIAT FOR RESEARCH AND TECHNOLOGY

ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΤΕΚΜΗΡΙΩΣΗΣ
NATIONAL DOCUMENTATION CENTRE

Funding Opportunities for Women in Horizon 2020

Workshop, 26 September 2017
Athens- GR

Maria KOUTROKOI (GSRT) & Georgios MEGAS (EKT/NHRF)

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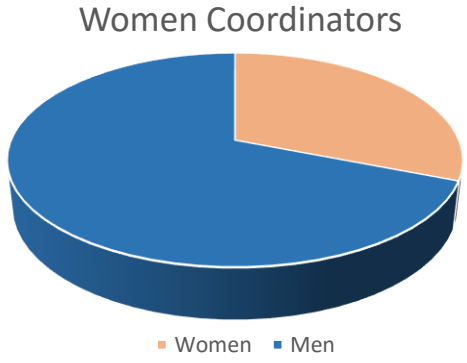
The Womens' Participation in H2020: State of play

- **Mid-term Evaluation Of Horizon2020 (Commission Staff Working Documents /SWD(2017) 221 final)**

"..Gender Equality is implemented as a cross-cutting Issue In Horizon 2020. Gender Balance in decision-making is close to being achieved with 53% in Advisory Groups and 36.7% in evaluation panels…"

"Concerning the workforce, women represent 31% of Projects' Coordinators Incl. 24.5% of ERC Principal Investigators, 42.2% of MSCA fellows and 26.9% of scientific Coordinators in other Horizon 2020 activities…"

"… Concerning the integration of Gender into R&I content, the Gender-flagged topics increased from 99 among 610 Topics In Work Programme 2014-2015 , to 108 among 568 Topics in Work Programme 2016-2017 …"



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The Womens' Participation in H2020- the way forward to 2018-2020 (1)

Horizon 2020 work programme 2018-2020 (Strategic Programme Overarching Document & scoping papers) - Priorities-political context

- **Increased investment in sustainable development and climate related R&I**
  (the area on Building a low Carbon, Climate-resilient Future and the area for Accelerating Clean Energy Innovation)
  Components of the focus area: LEIT –NMBP, Space, SC2, SC3,SC5
  Focus area : "Connecting economic & environmental gaine- The Circular Economy
  Components of the focus area: LEIT-NMBP, SC2, SC3,SC5

- **Integrating digitisation in all industrial technologies and societal challenges**
  (Dedicated focus area on Digitising and transforming European industry and services)
  Components of the focus area: LEIT –ICT, LEIT –NMBP, Space, SC1, SC2,SC3, SC4, SC6
  Focus area : Boosting the effectiveness of the Security Union
  Components of the focus area: LEIT-ICT, Space, SC1, SC3, SC7

Source: European Commission

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The Womens' Participation in H2020- the way forward to 2018-2020 (1)

Horizon 2020 work programme 2018-2020 (Strategic Programme Overarching Document & scoping papers per area) – Priorities-political context

- **Strengthening international R&I cooperation**

- **Societal Resilience (including research for security threats, and for migration)**
  (Dedicated focus area on Boosting the effectiveness of the Security Union)

- **Market creating innovation**

Source: European Commission

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The Womens' Participation in H2020- the way forward to 2018-2020 (2.1)

Future and Emerging Technologies

Renewing participation in FET - Open and stimulating continuity with other parts of Aligning (part of) FET- Open with EIC ; Stimulating innovation from FET projects; Proactive initiative on HPC; Providing sustained support for implementation of the two ongoing Flagships, Graphene and HBP ;Providing support for the definition and implementation of new Flagships ; Enhance articulation between FET-Open, FET-Proactive, FET-Flagships and other parts of the programme.

The Womens' Participation in H2020- the way forward to 2018-2020 (2.2)

Marie Skłodowska- Curie actions

Empowering researchers ; Widening participation ; Equal opportunities and inclusion; International mobility and cooperation; Intersectoral mobility and research-business cooperation

European research infrastructures

(including eInfrastructures)

LEIT - Information and communication technologies (ICT)

LEIT - Nanotechnologies, Advanced materials, Advanced manufacturing and processing, Biotechnology

Industrial Solution Revolution; Digitising European industry (DEI); ecarbonising European industry; Industry in the Circular Economy

#Horizon2020
#ICT
#DIH
#EEN

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NATIONAL DOCUMENTATION CENTRE

enterprise europe network
στην υπηρεσία της επιχείρησής σας

George Megas
National Documentation Center (EKT)

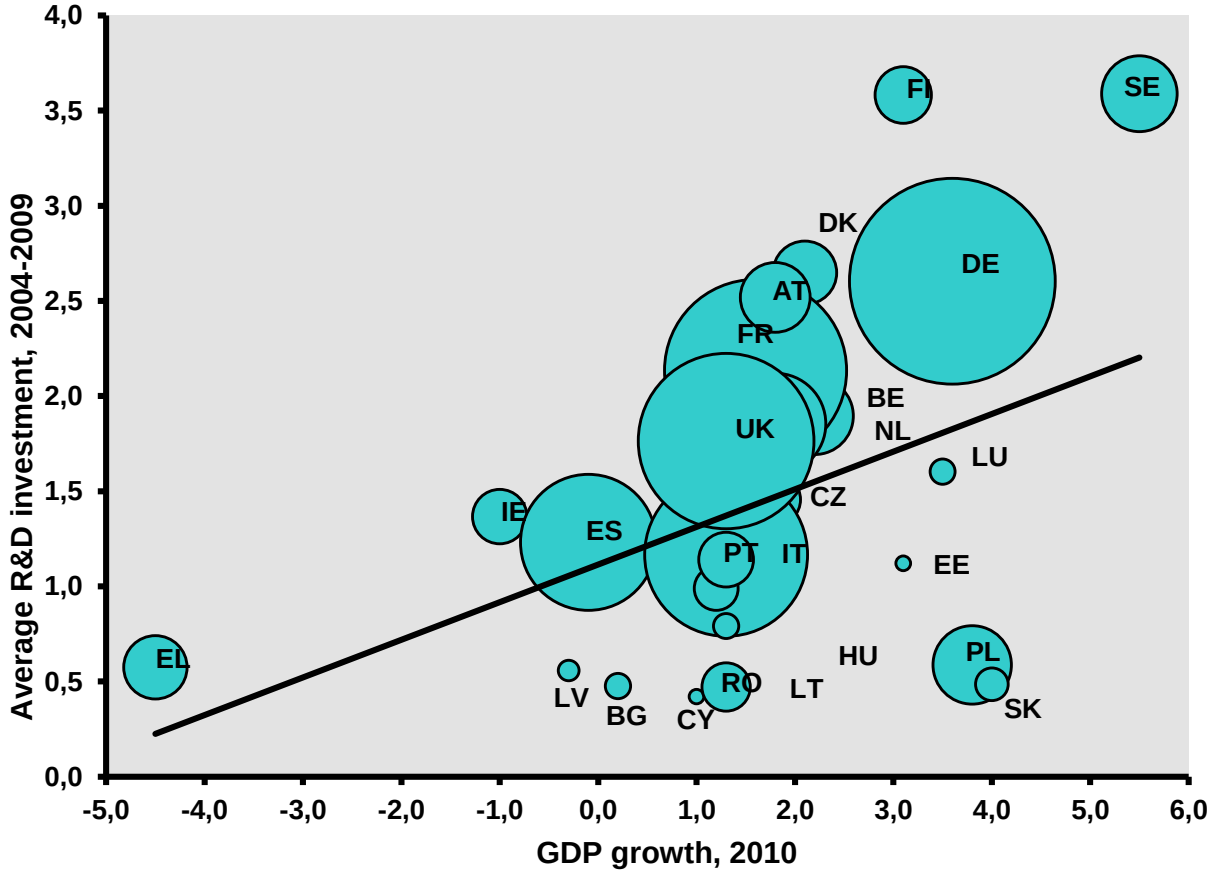
Maria Koutrokoi
General Secretariat of Research and Technology (GSRT)

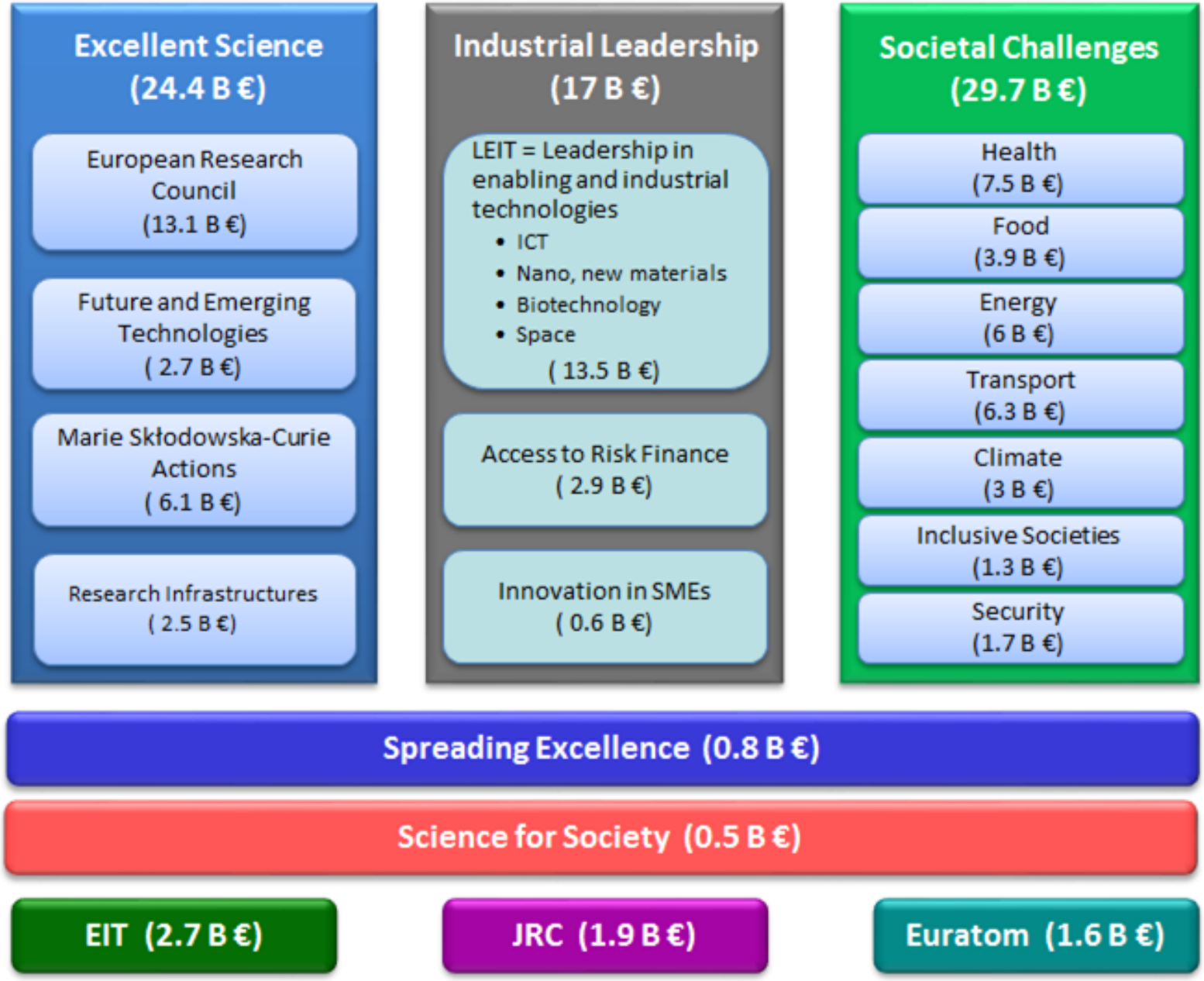
Horizon 2020

- **Horizon 2020** is the biggest EU Research and Innovation programme ever with **nearly €80 billion of funding** (2014 to 2020).

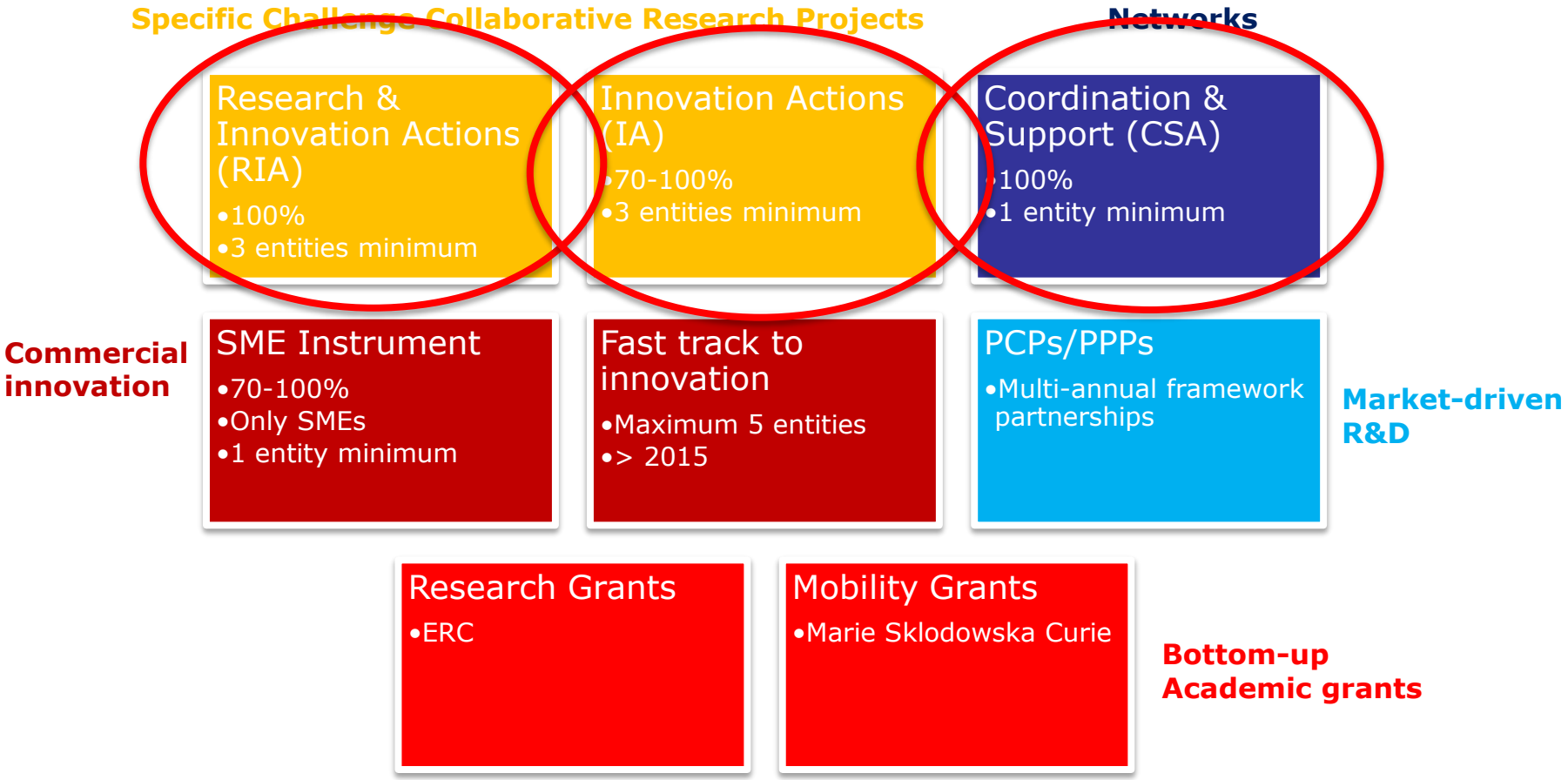
KET – Key Enabling Technology
FP7 CIP
FET Open
SEMI micro- and nano-electronics industries
KIC - Knowledge and Innovation Communities
ERA – European Research Area
PHOTONICS ROADMAP
COST Networking Insruments
Pilots A and B
ETP – European Technology Platform
LEIT – Leadership in Enabling and Industrial Technologies
FET – Future & Emerging Technologies
Horizion 2020
ARTEMIS ENIAC
COSME - Competitiveness of enterprises and SMEs
Marie Curie
FI PPP – Future Internet
Photonics21
PCP – PreCommercial Procurement
JTI – Joint Technology Initiative
PNO
EIT - European Institute of Innovation and Technology
EU 10|100|20 European industrial strategy for micro/nanoelectronics

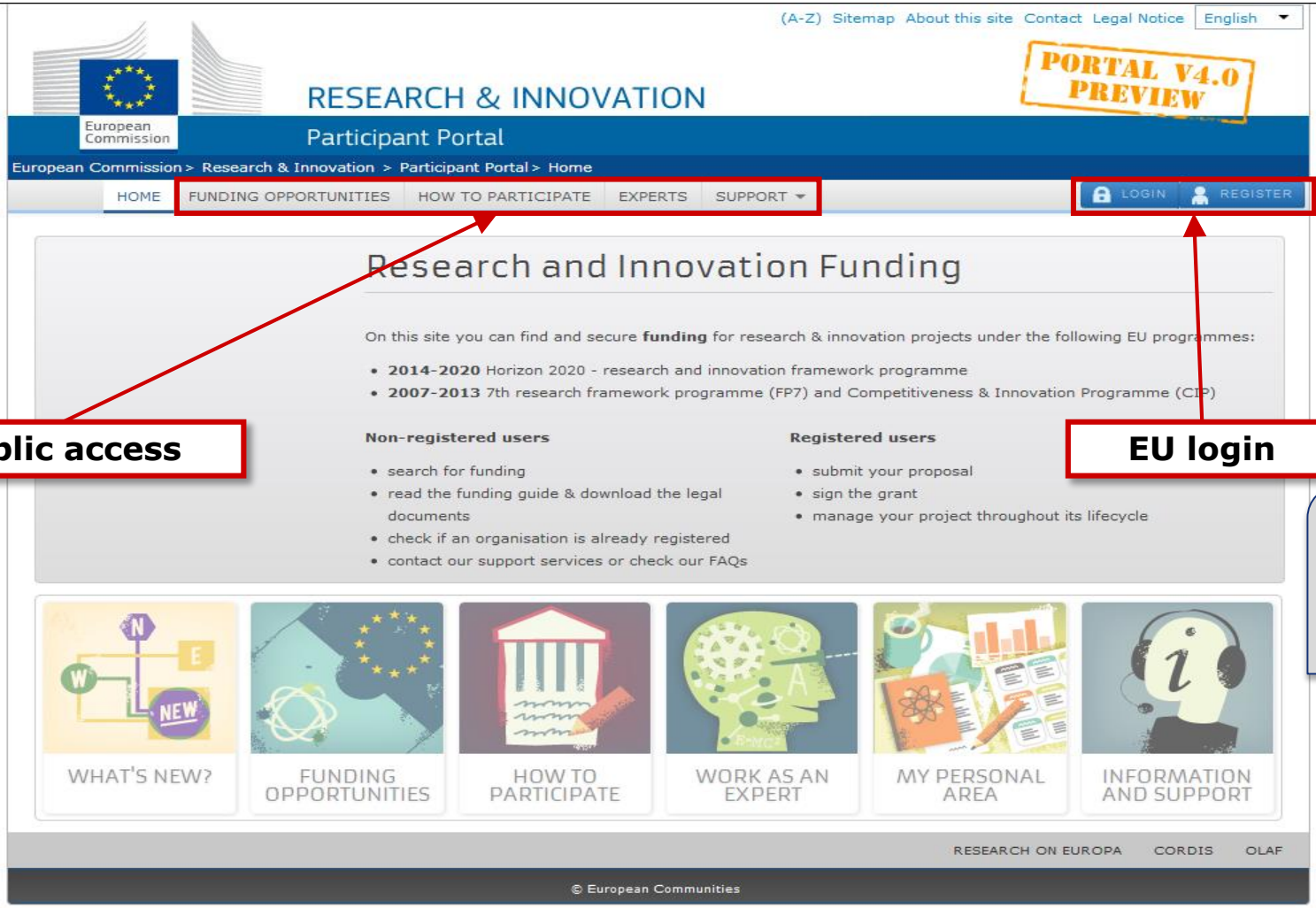
Impact of R&D on economic recovery




Excellent Science
(24.4 B €)
European Research Council
(13.1 B €)
Future and Emerging Technologies
(2.7 B €)
Marie Skłodowska-Curie Actions
(6.1 B €)
Research Infrastructures
(2.5 B €)
Industrial Leadership
(17 B €)
LEIT = Leadership in enabling and industrial technologies
• ICT
• Nano, new materials
• Biotechnology
• Space
(13.5 B €)
Access to Risk Finance
(2.9 B €)
Innovation in SMEs
(0.6 B €)
Societal Challenges
(29.7 B €)
Health
(7.5 B €)
Food
(3.9 B €)
Energy
(6 B €)
Transport
(6.3 B €)
Climate
(3 B €)
Inclusive Societies
(1.3 B €)
Security
(1.7 B €)
Spreading Excellence (0.8 B €)
Science for Society (0.5 B €)
EIT (2.7 B €)
JRC (1.9 B €)
Euratom (1.6 B €)

Types of actions





Public access

EU login

There is no **ECAS** any more

http://ec.europa.eu/research/participants/portal/desktop/en/home.html

Calls for Proposals

Horizon 2020

Advanced search for topics
Calls for tenders on TED

- [ ] Research Infrastructures
- [ ] Industrial Leadership
  - [ ] Leadership in enabling and industrial technologies (LEIT)
    - [x] Information and Communication Technologies
    - [ ] Nanotechnologies
    - [ ] Advanced materials
    - [ ] Biotechnology
    - [ ] Advanced manufacturing and processing
    - [ ] Space

Status [x] Calls with forthcoming topics [x] Calls with open topics [ ] Calls with only closed topics

Sort by ( ) Call title ( ) Call identifier (•) Publication date Filter a call FILTER

Societal Challenges
Sustainable Food Security – Resilient and resource-efficient value chains
H2020-SFS-2016-2017
Publication date:14 October 2015

Industrial Leadership
Information and Communication Technologies Call
H2020-ICT-2016-2017
Publication date:14 October 2015

Industrial Leadership
EU-Brazil Joint Call
H2020-EUB-2017
Publication date:14 October 2015

Industrial Leadership
CALL FOR NANOTECHNOLOGIES, ADVANCED MATERIALS, BIOTECHNOLOGY AND PRODUCTION
H2020-NMBP-2016-2017
Publication date:14 October 2015

Industrial Leadership
Horizon 2020 dedicated SME Instrument 2016-2017
H2020-SMEInst-2016-2017
Publication date:14 October 2015

Industrial Leadership
Industry 2020 in the Circular Economy
H2020-IND-CE-2016-17
Publication date:14 October 2015

Industrial Leadership
Internet of Things
H2020-IOT-2016-2017

Societal Challenges
Digital Security Focus Area
H2020-DS-2016-2017

H2020 WP 2018-2020Useful Info (1)

- **Portal of HORIZON 2020:**

  http://ec.europa.eu/programmes/horizon2020/

- **How to get funding?:**

  http://ec.europa.eu/programmes/horizon2020/en/how-get-funding

- **Participant portal?:**

  http://ec.europa.eu/research/participants/portal/desktop/en/home.html

- **How to participate?:**

  http://ec.europa.eu/research/participants/portal/desktop/en/funding/index.html

- **H2020 Online Manual (registration, user account, find partners)**

  http://ec.europa.eu/research/participants/docs/h2020-funding-guide/index_en.htm

- **Reference Documents / General Introduction 2016-2017: (update pending)**

  http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-intro_en.pdf

H2020 WP 2018-2020Useful Info (2)

- **General annexes (You can see it also as a part of every call):**

  http://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2016-2017/annexes/h2020-wp1617-annex-ga_en.pdf

- **Reference Documents / Main WP, Focus areas:**
  (Update Pending)

- **Proposal templates for Research and Innovation Actions (RIA) and Innovation Actions (IA):**

  http://ec.europa.eu/research/participants/data/ref/h2020/call_ptef/pt/h2020-call-pt-ria-ia_en.pdf **(Update Pending)**

- **Example of administrative forms and template for Coordination and Support Actions (CSA):**

  http://ec.europa.eu/research/participants/data/ref/h2020/call_ptef/pt/2016-2017/h2020-call-pt-csa-2016-17_en.pdf **(Update Pending)**

- **AGA - Annotated model Grant Agreement**

  http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf

H2020 WP 2018-2020* Useful info (3)

- **H2020 RULES FOR PARTICIPATION:**

  http://ec.europa.eu/research/participants/data/ref/h2020/legal_basis/rules_participation/h2020-rules-participation_en.pdf

- **Horizon 2020 Helpdesk**
  http://ec.europa.eu/research/participants/portal/desktop/en/support/research_enquiry_service.html

- **Research Enquiry Service**
  http://ec.europa.eu/research/index.cfm?pg=enquiries

- **H2020 WP 2018 – 2020 Open calls:**
  http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html **(Update Pending)**

ICT

Reminder: ICT in H2020

Excellent Science

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

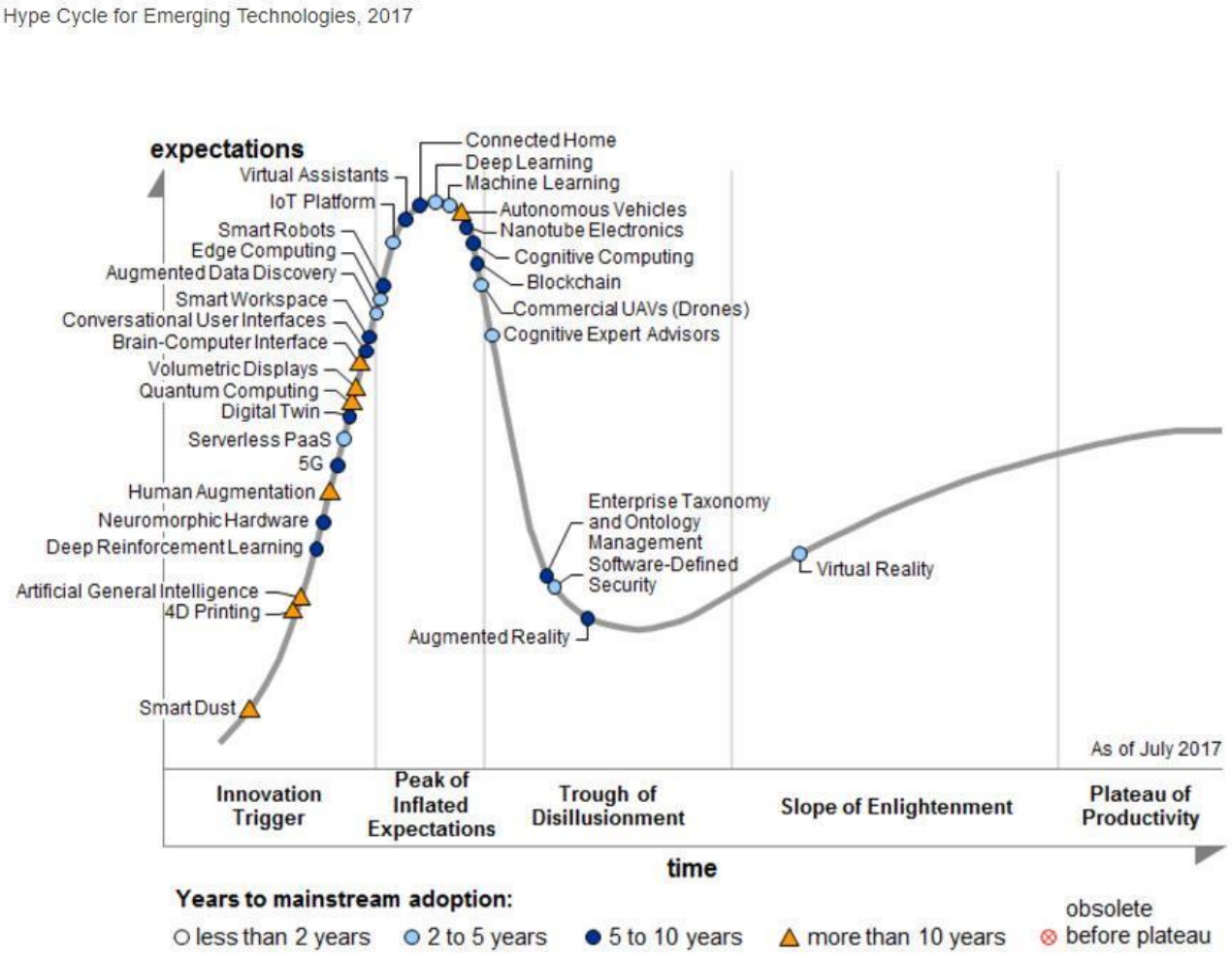
Industrial Leadership

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

Societal Challenges

- Health, demographic change and wellbeing ICT
- Food security, sustainable agriculture, and the bio-based economy ICT
- Secure, clean and efficient energy ICT
- Smart, green and integrated transport ICT
- Climate action, resource efficiency, and raw materials ICT
- Inclusive, innovative and reflective societies ICT
- Secure societies ICT

"Hype cycle" for Emerging technologies 2017 by Gartner institute



Note: PaaS = platform as a service; UAVs = unmanned aerial vehicles

Source: Gartner (July 2017)

Tweet from Cientifica: "Graphene is Elvis & Nanotubes are Carl Perkins"

The 3 Major Technological Trends:

AI Everywhere (Deep and Machine learning, Autonomus Vehicles*, Commercial UAVs, Smart etc.)

Transparently Immersive Experiences (VR & AR, Connected Home, Brain Computer Interfaces, **Nanotube Electronics** etc.)

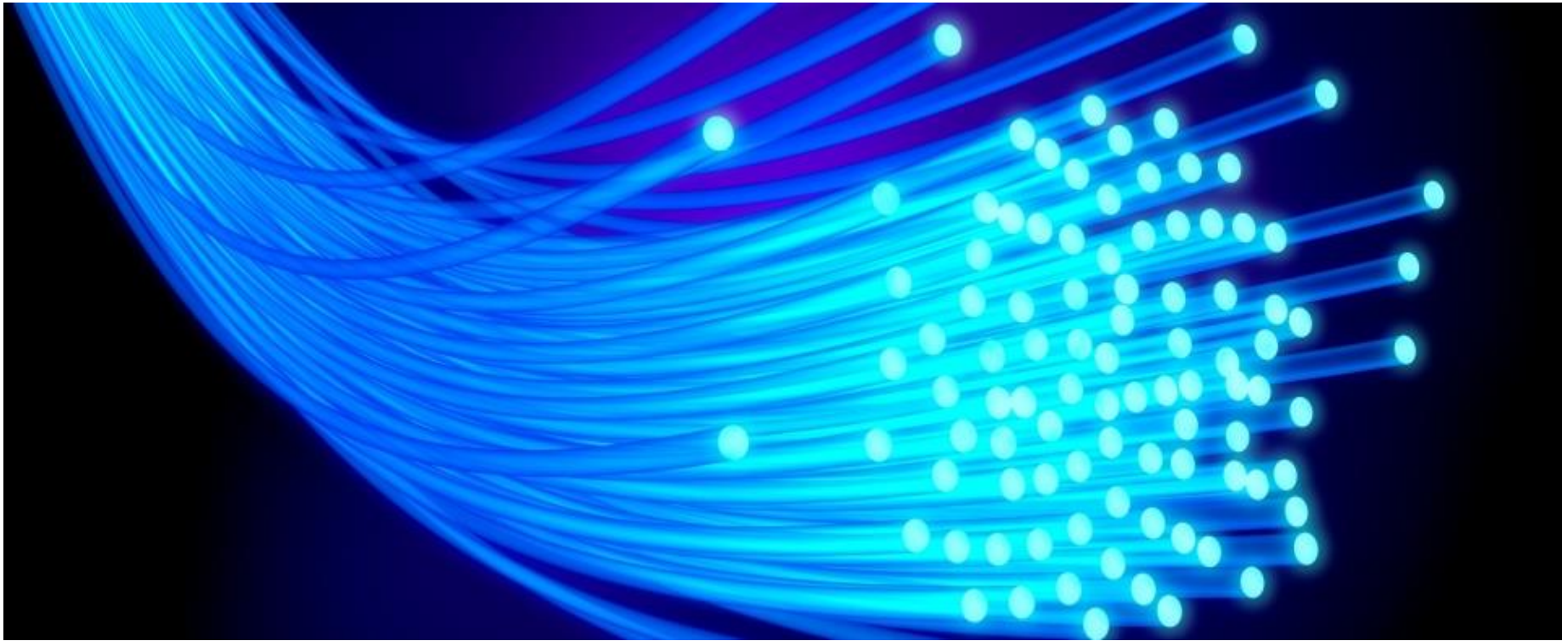
Digital Platforms (Neuromorphic Hardware, IoT platforms, Blockchain, Quantum Comp. etc.)

H2020 Pillar II – Industrial Leadership

!Disclaimer: The work programme is still in Draft!

Information and Communication Technologies

Link to Workprogramme (pending)



H2020 Pillar II – I&C Technologies

Cutoff dates to be defined

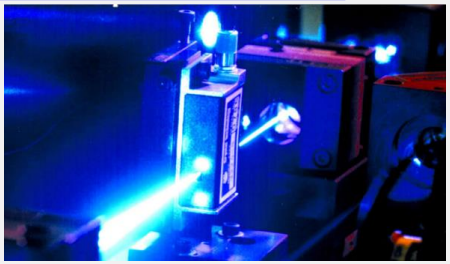
Technologies for Digitising European Industry ½ ***Electronics & Photonics***

ICT-01-2019: Computing technologies and engineering methods for cyber-physical systems of systems

ICT-02-2018: Flexible and Wearable Electronics

ICT-03-2018-2019: Photonics Manufacturing Pilot Lines for Photonic Components and Devices

ICT-04-2018: Photonics based manufacturing, access to photonics, datacom photonics and connected lighting



ICT-05-2019: Application driven Photonics components

ICT-03-2018-2019: Photonics Manufacturing Pilot Lines for Photonic Components and Devices

The aim is to accelerate the design, development and uptake of photonics technology, by industrial players, in particular SMEs.

Scope: The focus is on Manufacturing Pilot Lines: actions should provide open access to manufacturing of advanced photonics components and systems and offer related services including design and characterization.

Activities should aim at long-term sustainability, including development of or integration into photonics innovation hubs

Actions must address one or more of the following technologies.

1. **providing open access to photonics integrated circuits based on:**
   a. **Indium Phosphide (2018 call)**
   b. **Silicon Photonics (2018 call)**
2. **Next generation free-form optics (2019 call): maturing a technology platform and providing access to optics with free-form shapes and exceptional surface finish, exploiting new optical materials**
3. **Advanced optical medical device technologies for medical diagnostics (2019 call):**

The Commission considers that proposals requesting a contribution from the EU between EUR 8 and 15 million

Expected Impact

- **Improve significantly the uptake of photonics technology by end-user industry**
- **Greatly accelerate the time to market**
- **Create sustainable manufacturing capability in Europe.**

H2020 Pillar II – I&C Technologies

Cutoff dates to be defined

Technologies for Digitising European Industry 2/2 *Robotics*

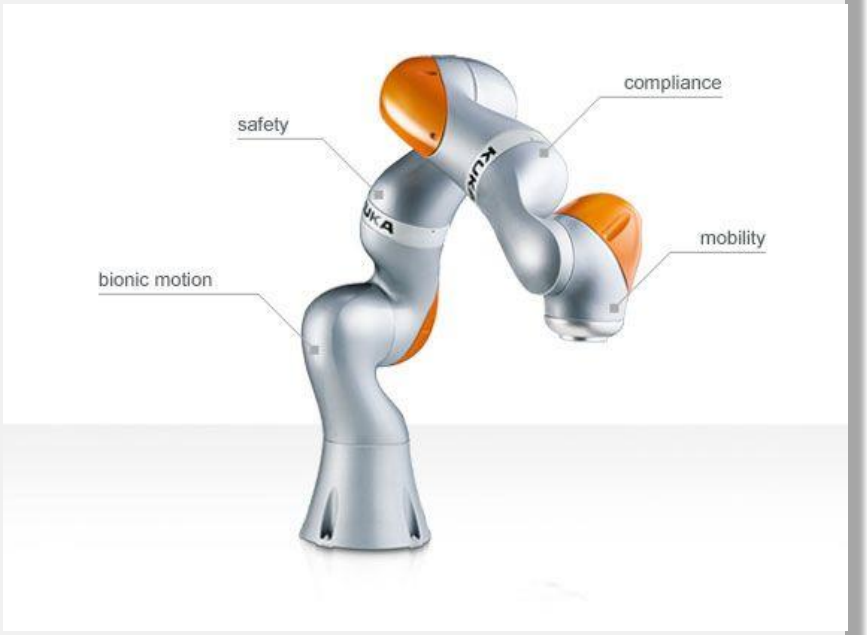
[ICT-06-2019: Unconventional Nanoelectronics]

[ICT-07-2018: Electronic Smart Systems (ESS)]

[ICT-08-2019: Security and resilience for collaborative manufacturing environments]

[ICT-09-2019-2020: Robotics in Application Areas]

[ICT-10-2019-2020: Robotics Core Technology]



H2020 Pillar II – I&C Technologies

Cutoff dates to be defined

European Data Infrastructure: HPC, Big Data and Cloud technologies

ICT-11-2018-19: HPC and Big Data enabled Large-scale Test-beds and Applications

ICT-12-2018-2020: Big Data technologies and extreme-scale analytics

ICT-13-2018-19: Supporting the emergence of data markets and the data economy

ICT-14-2018: Co-designing Extreme Scale Demonstrators (EsD)

ICT-15-2019-2020: Cloud Computing

ICT-16-2018: Software Technologies

H2020 Pillar II – I&C Technologies

Cutoff dates to be defined

5G

[ICT-17-2018: 5G End to End Facility]

[ICT-18-2018: 5G for cooperative connected and automated mobility]

[ICT-19-2019: 5G validation trials across multiple vertical industries]

[ICT-20-2019-2020: 5G Long Term Evolution]

[ICT-21-2018: EU-US Collaboration for advanced wireless platforms]

[ICT-22-2018: EU-China 5G Collaboration]

[ICT-23-2019: EU-Taiwan 5G Collaboration]

H2020 Pillar II – I&C Technologies

Cutoff dates to be defined

NEXT GENERATION INTERNET

[ICT-24-2018-2019: Next Generation Internet - An Open Internet Initiative]

[ICT-25-2018-2020: Interactive Technologies]

[ICT-26-2018-2020: Artificial Intelligence]

[ICT-27-2018-2020: Internet of Things]

[ICT-28-2018: Future Hyper-connected Sociality]

[ICT-29-2018: A multilingual Next Generation Internet]

[ICT-30-2019-2020: An empowering, inclusive Next Generation Internet]

[ICT-31-2018-2019: EU-US collaboration on NGI]

"increase our awareness of what is around us and augment our perception of the cyber-physical space" Roberto Viola

H2020 Pillar II – I&C Technologies

Cutoff dates to be defined

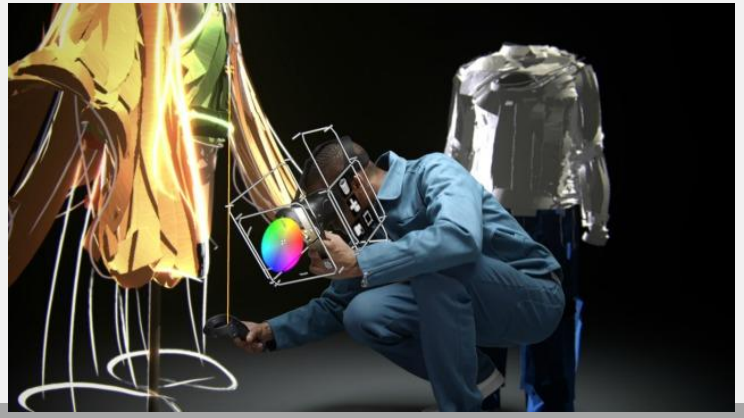
Cross-cutting activities:

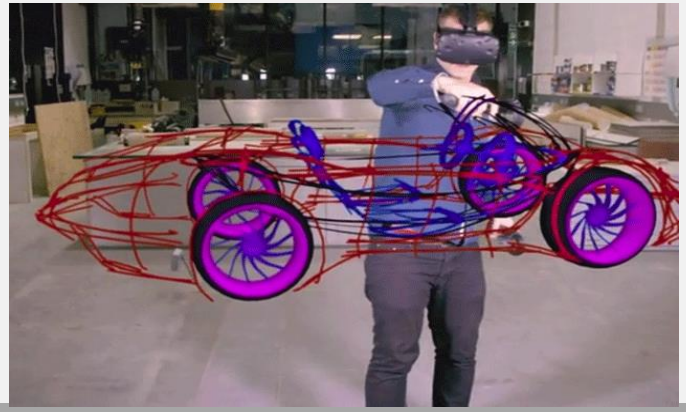
ICT-32-2019: STARTS – The Arts stimulating innovation

ICT-33-2019: Startup Europe for Growth and Innovation Radar

ICT-34-2018-2019: Pre-Commercial Procurement open

ICT-35-2018: Fintech: Support to experimentation frameworks and regulatory compliance





H2020 Pillar II – I&C Technologies

Cutoff dates to be defined

Call-Cybersecurity

SU-ICT-01-2019: Dynamic countering of cyber-attacks

SU-ICT-02-2020: Building blocks for resilience in evolving ICT systems

SU-ICT-03-2020: Advanced cybersecurity and digital privacy technologies

SU-ICT-04-2019: Quantum Key Distribution testbed

Other: EU-Japan, EU-Korea

Digital Innovation Hubs in the LEIT/ICT workprogramme 2018-2020

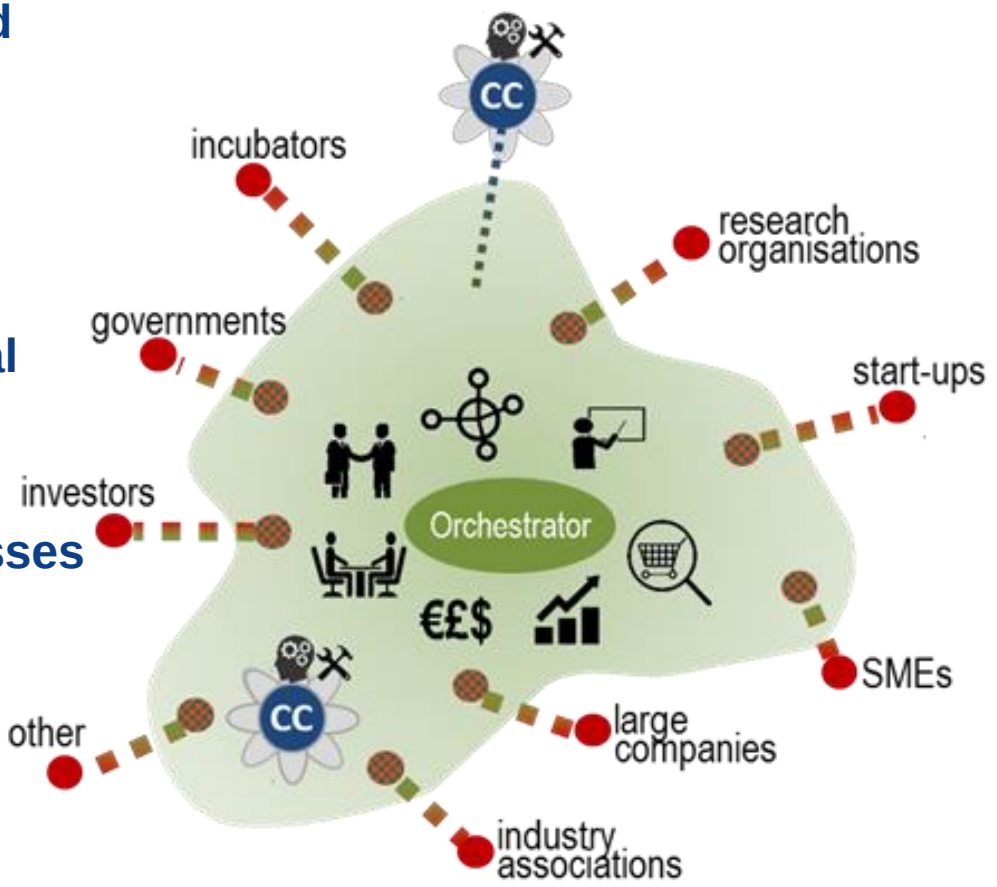
DIGITISING EUROPEAN INDUSTRY
Action Plan to facilitate coordination between European, National and Regional initiatives

Initial presentation: Anne-Marie Sassen
Deputy Head of Unit DG CONNECT – A2
European Commission

What is a Digital Innovation Hub?

A one-stop-shop providing services to companies in the region through a multi-partner cooperation:

- Access to Specialist Expertise and Infrastructure
- Brokering/matchmaking
- Awareness Creation around Digital Technologies
- Strategy Development for Businesses
- Mentoring / Training
- Access to Funding and Investor Readiness Services



Disclaimer: Preliminary information, workprogramme has not been approved yet

IA characteristics:

- ✓ **Critical mass of highly innovative, cross border experiments.**
- ✓ **At least 50% of the budget should directly benefit SMEs or slightly bigger companies**
- ✓ **Activities should be sustainable in the long term, and include a business plan to attract investors**
- ✓ **A network of DIH covering most EU regions**

H2020 Pillar II – I&C Technologies

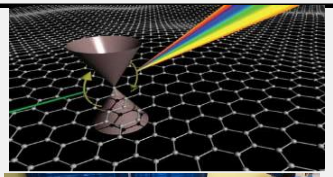
Cutoff dates to be defined

Call - Digitising and transforming European industry and services

Support to Hubs:

DT-ICT-03-2020: I4MS (phase 4) - uptake of digital game changers and digital manufacturing platforms

DT-ICT-01-2019: Smart Anything Everywhere (e.g. flexible & wearable electronics)



DT-ICT-04-2020: Photonics Innovation Hubs

DT-ICT-02-2018: Robotics - Digital Innovation Hubs (DIH)

Robotics in Agtech, Maintainance, Health etc.)

DT-ICT-05-2020: Big Data Innovation Hubs

DT-ICT-06-2018: Coordination and Support Activities for Digital Innovation Hub network

Where to find open calls on participant portal?

- http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/other/competitive.html

H2020 Pillar II – I&C Technologies

Cutoff dates to be defined

Call - Digitising and transforming European industry and services

Platforms and Pilots

[DT-ICT-07-2018-2019: Digital Manufacturing Platforms4Smart Factories]

[DT-ICT-08-2019: Agricultural digital integration platforms]

[DT-ICT-09-2020: Digital service platforms for rural economies]

[DT-ICT-10-2019: Interoperable and smart homes and grids]

[DT-ICT-11-2019: Big data solutions for energy]

[DT-ICT-12-2020: The smart hospital of the future]

[DT-ICT-132019: Digital Platforms/Pilots Horizontal Activities]

Further information

- ICT Proposers' Day 2017
  - Budapest, 9-10 Nov 2017

- Working group on Digital Innovation Hubs

  Report:

  https://ec.europa.eu/futurium/en/content/report-wg1-digital-innovation-hubs-mainstreaming-digital-innovation-across-all-sectors-final

- Catalogue of Digital Innovation Hubs

https://ec.europa.eu/futurium/en/content/digital-innovation-hubs-catalogue-project-0

Eligibility and admissibility conditions

- RIA & IA Actions :
  - 3 legal entities from different EU MS or AC at least
  - 70 pages, unless stated otherwise (CVs, Papers etc. are extra)
  - The limit for a first-stage proposal is 10 pages
- CSA Actions
  - 1 legal entity from different EU MS or AC at least
  - 50 pages
- PCP & PPI
  - 3 legal entities from different EU MS or AC at least
  - 2 independent legal entities (out of the 3) which are 'public procurers' from two different EU MS or AC

Evaluation criteria

1. Excellence
   - MAX score =5 , Threshold =3
2. Impact
   - MAX score =5 , Threshold =3
   - For **IA** and **SME instr**. actions **Impact** will be given the **weight of 1.5**
3. Quality and efficiency of the implementation
   - MAX score =5, Threshold =3

- Selection Criteria
  - Financial Capacity
  - Operational Capacity
- Overall Threshold is **10**

NEUROMANCER
BioMimic
Technology

Graphene FET Flagship core project

- **The Graphene FPA consortium will be invited to submit a proposal for a SGA for the next 3 years!**

- **The proposal should adhere to the FPA programme of activities.**

- **Any modification to the FPA Consortium partners should be sufficiently motivated and based on the highest standards of scientific and technological excellence and on open and transparent criteria.**
- **150 mil.**

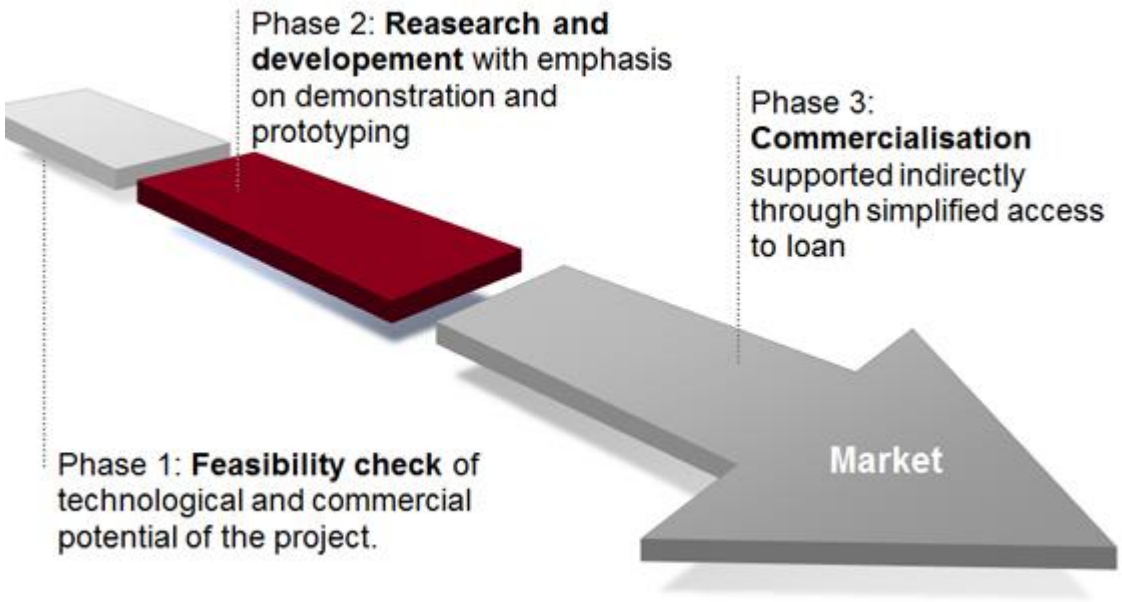
FET work programme

- **FET Open, FET Proactive, other FET Flagships:**

Watch the material from todays Infoday (26/07/2017) that was held this morning at EKT's premises and, you were invited. Director Thomas Skordas from DG CONNECT presented the new WP:

http://www.ekt.gr/el/node/21074

The SME Instrument



Themes for 2016-2017

In 2016 and 2017 the SME Instrument will sponsor SMEs operating within 13 themes:

1. **ICT: open disruptive innovation**
2. **Nanotech, or other advanced tech for manufacturing and materials**
3. Biotechnology-Closing the gap from lab to market
4. Space research and development
5. SMEs in the healthcare biotechnology sector
6. ICT solutions for Health, Well-Being and Ageing Well*
7. Sustainable agriculture, forestry, food & bio-based sectors
8. Blue growth
9. Low carbon energy systems
10. Greener and more integrated transport
11. **Eco-innovation and sustainable raw material supply**
12. New business models for inclusive, innovative and reflective societies*
13. Security research and development*

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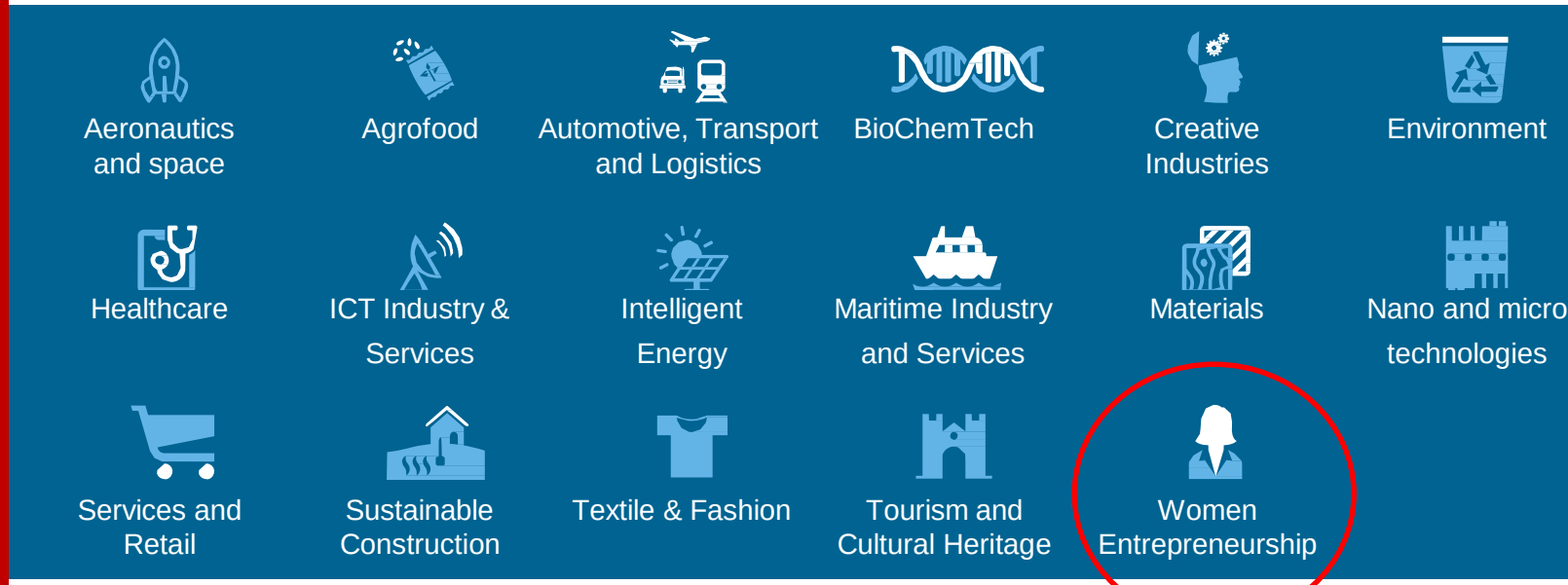
17 Key Sectors



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Brokerage events	Market Intelligence	Innovation Management Services
Company missions	IPR expertise	Technology transfer

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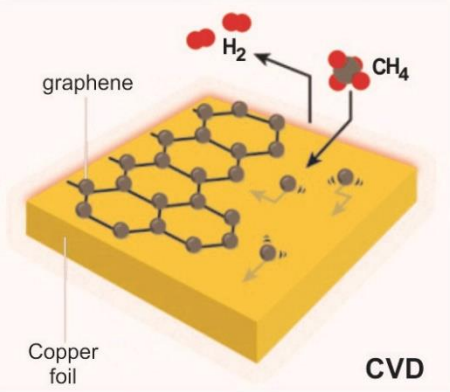
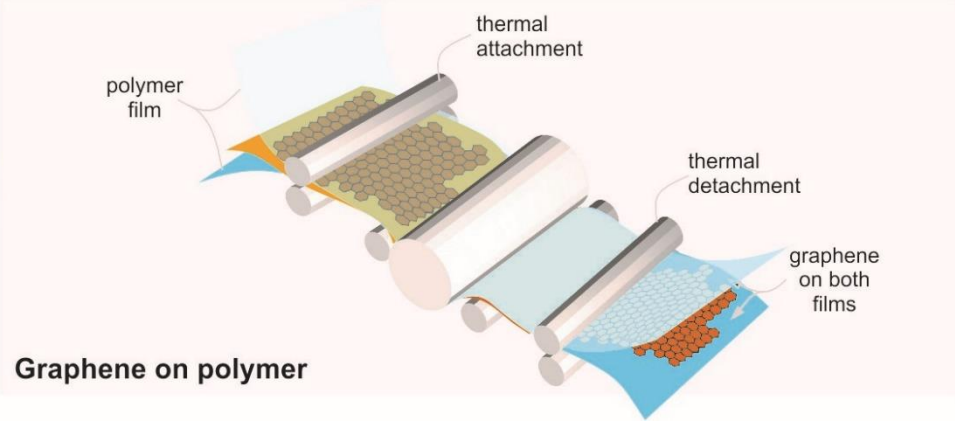
Flexible displays based on graphene composite materials

A Greek research centre has developed a novel technology to fabricate flexible displays based on graphene/polymer composite laminates. The produced films can be integrated with a flexible circuitry to impart desired functionalities into bendable displays. The research group seeks industrial partners from consumer electronics to incorporate the technology in their products under a commercial agreement with technical assistance.

View partnering opportunity





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Thank you!

- megas@ekt.gr
- @georgiosmeg
- www.ekt.gr

- mkoutr@gsrt.gr
- www.gsrt.gr

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