

LAS TIC EN HORIZONTE2020

LIDERAZGO INDUSTRIAL

PROGRAMA DE TRABAJO 2014-15

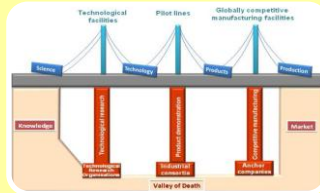
Fernando Martín Galende
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CDTI

Asamblea PlaneTIC, 13 de enero de 2014

Horizonte 2020

Programa Marco de Investigación e Innovación (2014-2020)



Excellent Science

Industrial Leadership

Societal Challenges

European Research Council (ERC)

Future and Emerging Technologies (FET)

Marie Skłodowska-Curie actions on skills, training and career development

European research infrastructures

ICT

Nanotechnology

Biotechnology

Advanced Materials

Advanced Manufacturing & Processing

Space

Access to Risk Finance

Innovation in SMEs

Health, demographic change and wellbeing

Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy;

Secure, clean and efficient energy;

Smart, green and integrated transport;

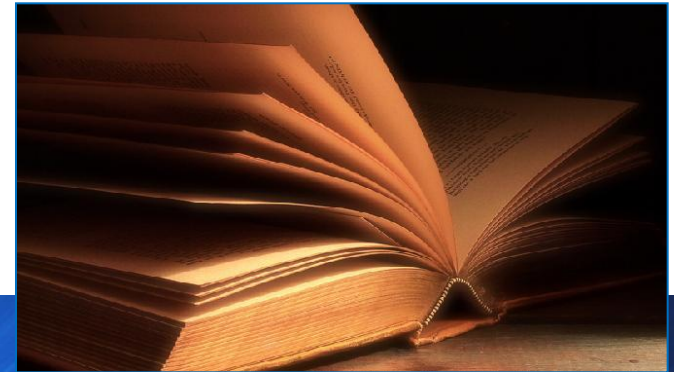
Climate action, environment, resource efficiency and raw materials

Europe in a changing world-Inclusive, innovative and reflexive societies

Secure Societies: Protecting freedom and security of Europe and its citizens

Publicación del WP2014-15:

<https://ec.europa.eu/digital-agenda/sites/digital-agenda/files/H2020%20LEIT-ICT%20WP%202014-15%20-%2031%2010%202013.pdf>



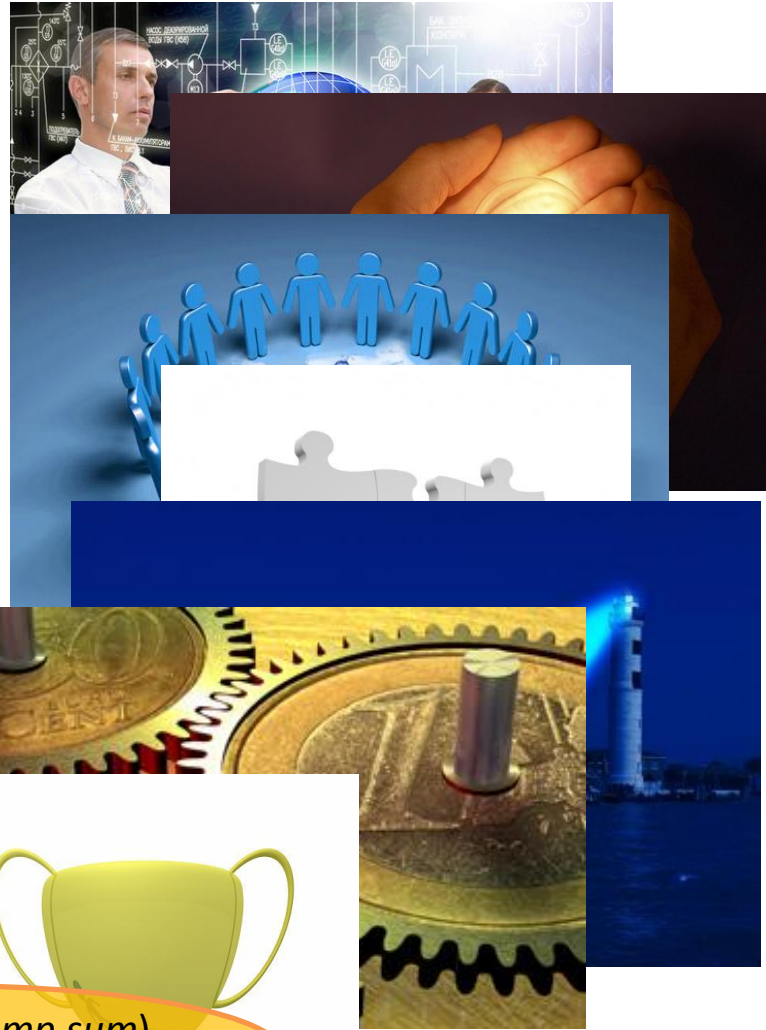
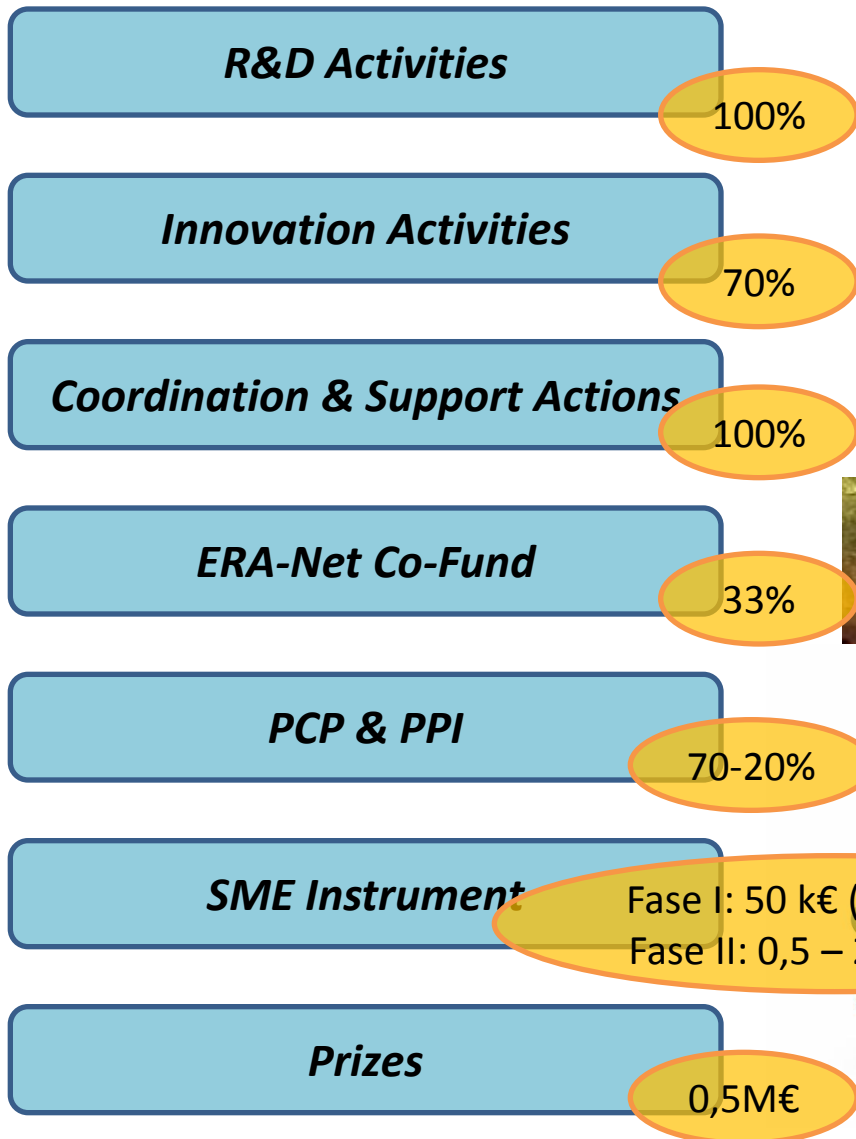
Objetivo:



Superar el Valle de la Muerte

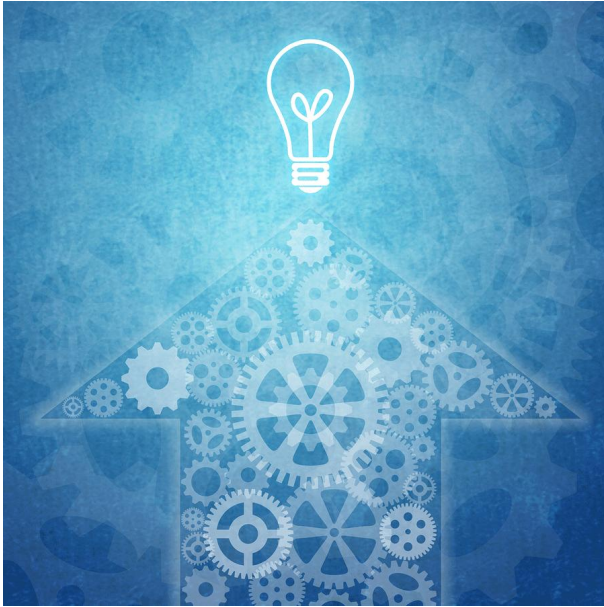
- **More “topic-free”. More “objective-oriented”**
- **Industry-driven.**
Commitment towards industrialization.
- **Application/Industry Validation**
 - *Health, Food, Security, Manufacturing, Inclusion...*
- **Bigger focus on innovation**
 - *Business opportunities*
 - *Business cases/plans*
 - *Exploitation plans*
 - *User requirements/validation*
 - *Standardisation*
- **Innovation Management**
 - *Open Calls*
 - *Mini-proposals*
- **Link with many other parts of H2020**

Instrumentos:



En general:
Small contribution: 2 – 4 M€
Large contribution: 5 – 8 M€

Cambios en los contenidos:



What's
IN



Cambios en los contenidos:

What's



OUT

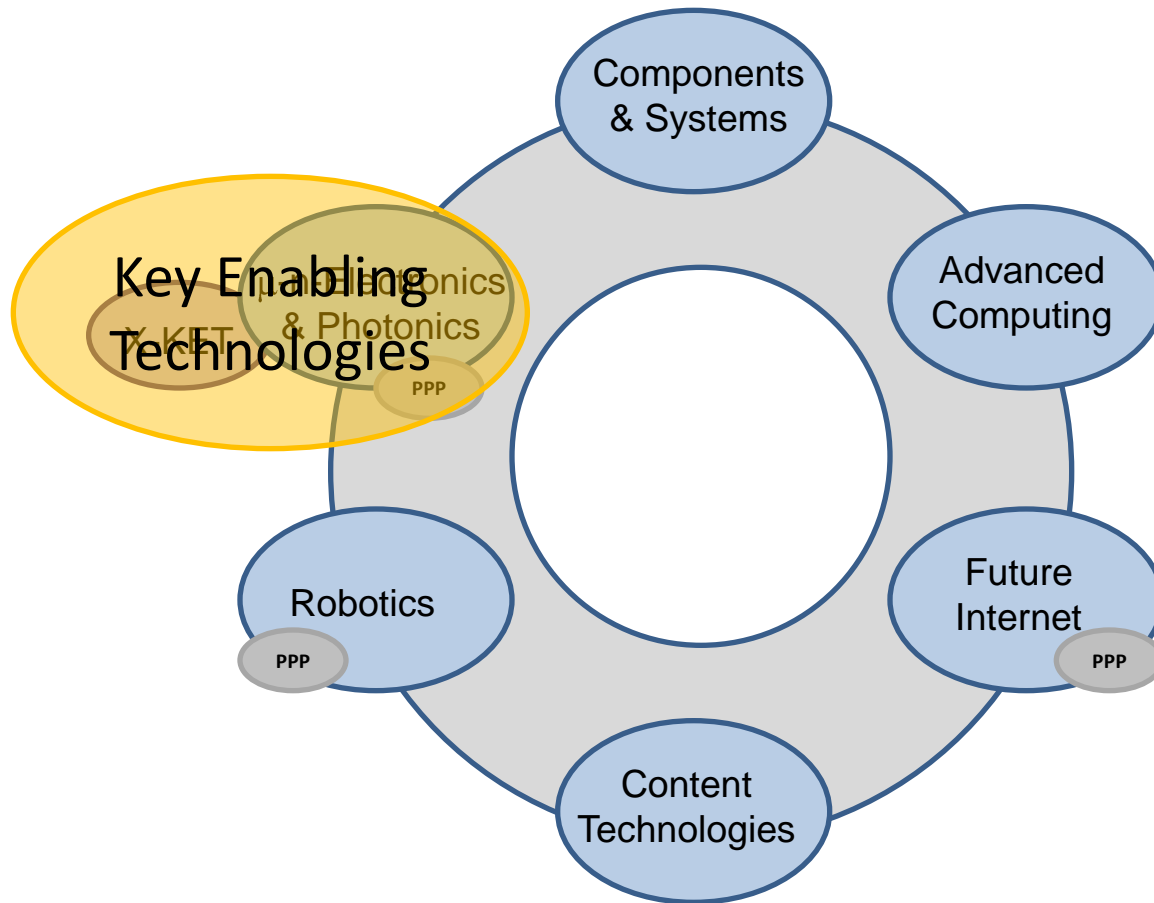


ICT Applications go to the
Societal Challenges
*(EeB center of gravity in NMBP)

All FET Activities
go to Excellent
Science

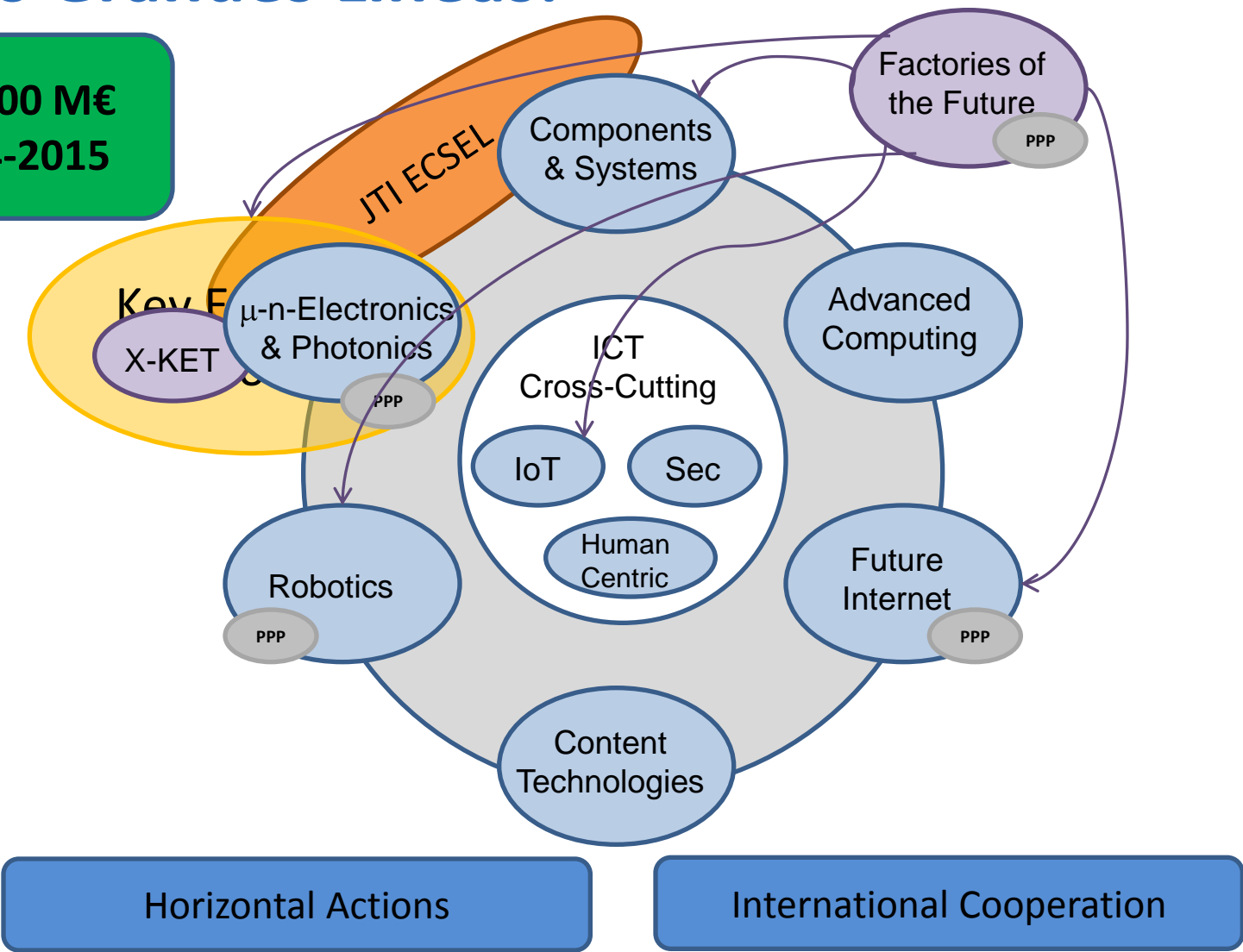
Future & Emerging
Technologies

Seis Grandes Líneas:



Seis Grandes Líneas:

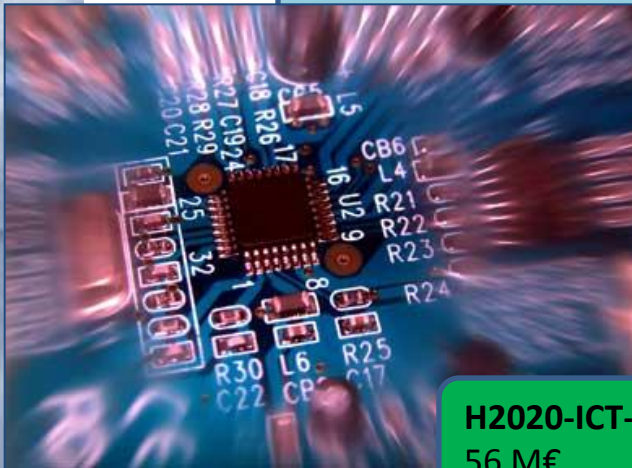
**~ 1.600 M€
2014-2015**



Programa ICT: Líneas temáticas en H2020 (I)

JTI ECSEL
1.200 M€

A new generation of components and systems: Engineering of advanced, embedded and energy and resource efficient components and systems.



H2020-ICT-2014
56 M€

Smart Cyber-Physical Systems (CPS)

H2020-ICT-2014
52 M€

Smart Systems Integration

H2020-ICT-2014
38 M€

Advanced Thin, Organic and Large Area Electronics

Programa ICT: Líneas temáticas en H2020 (II)

Advanced computing: Next generation and secure computing systems and technologies.



H2020-ICT-2015
57 M€

Customised and Low Power Computing

Programa ICT: Líneas temáticas en H2020 (III)

Future Internet: software, hardware, infrastructures, technologies and services.



H2020-ICT-2014
24 M€

Smart Networks and novel Internet Architectures

H2020-ICT-2014
30 M€

Smart Optical and Wireless Network Technologies

H2020-ICT-2014
73 M€

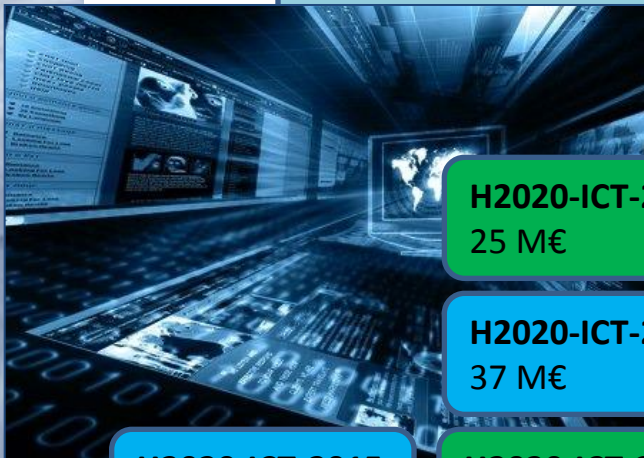
Advanced Cloud Infrastructures and Services

H2020-ICT-2015
22 M€

Public Sector Productivity/Innovation through
Cloud Computing Services

Programa ICT: Líneas temáticas en H2020 (III)

Future Internet: software, hardware, infrastructures, technologies and services.



H2020-ICT-2014
25 M€

Tools and Methods for Software Development

H2020-ICT-2015
37 M€

Collective Awareness Platforms for Sustainability and Social Innovation

H2020-ICT-2015
18 M€

H2020-ICT-2014
31,5 M€

Future Internet Research & Experimentation

H2020-ICT-2014
10 M€

Web Entrepreneurship

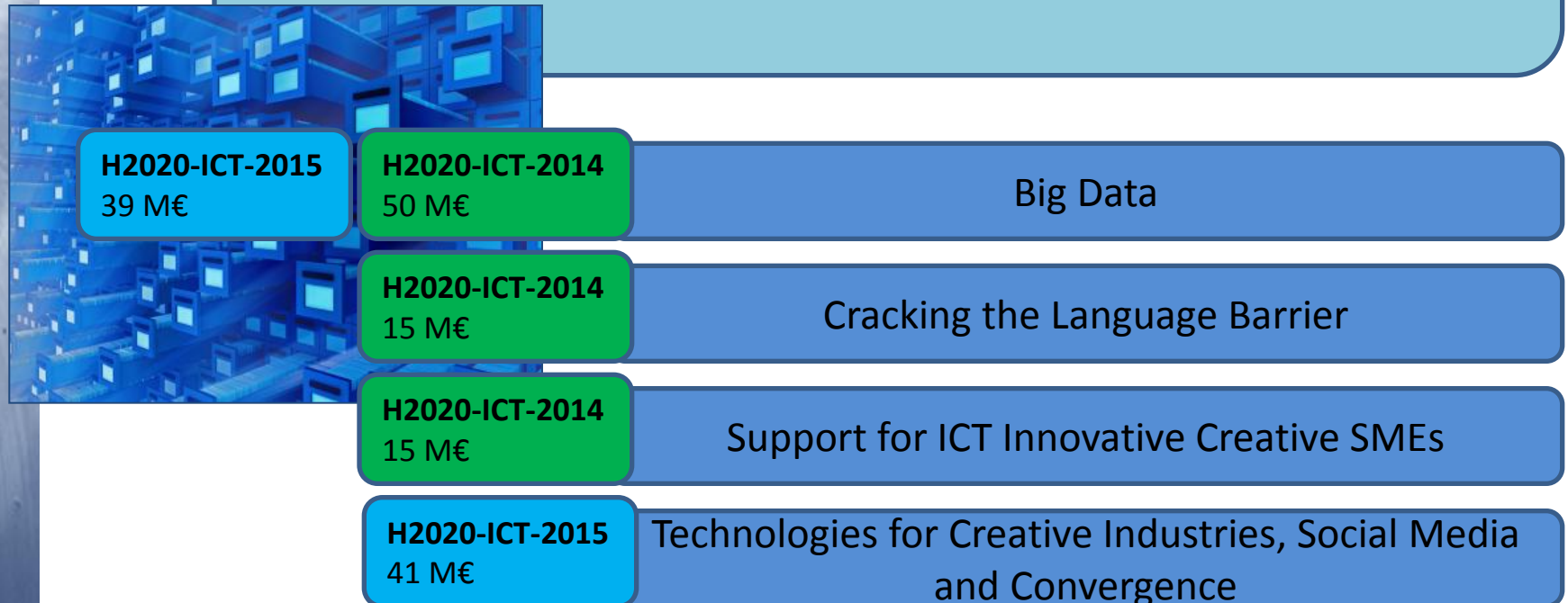
H2020-ICT-2014
125 M€

Advanced 5G Network Infrastructure for the PPP
Future Internet

5G

Programa ICT: Líneas temáticas en H2020 (IV)

Content technologies and information management: ICT for digital content, cultural and creative industries.



Programa ICT: Líneas temáticas en H2020 (IV)

Content technologies and information management: ICT for digital content, cultural and creative industries.



H2020-ICT-2015
52 M€

Technologies for better Human Learning and Teaching

H2020-ICT-2014
17 M€

Digital Gaming/Gamification Technologies

H2020-ICT-2014
31 M€

Multimodal and Natural Computer Interaction

Programa ICT: Líneas temáticas en H2020 (V)

PPP
Robótica

Robotics: Advanced interfaces, robotics and smart spaces.

<http://www.eurobotics-project.eu/robotics-ppp/>

H2020-ICT-2014
74 M€

Robotics 2014

Markets: Manufacturing, commercial, civil, agriculture

Technology Transfer: Robotics use cases

H2020-ICT-2015
83 M€

Robotics 2015

Markets: Healthcare, consumer, transport

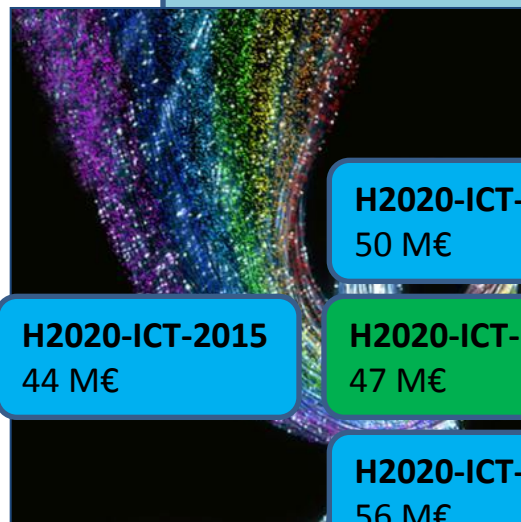
Industry-Academia cross-fertilization

Technology Transfer: Robotics use cases



Programa ICT: Líneas temáticas en H2020 (VI)

Micro- and nanoelectronics and photonics: Key Enabling Technologies related to micro- and nanoelectronics and to photonics covering also quantum technologies.



H2020-ICT-2015
50 M€

Generic μ -n-Electronic Technologies

JTI ECSEL
1.200 M€

H2020-ICT-2015
44 M€

H2020-ICT-2014
47 M€

Photonics

PPP
Fotónica

H2020-ICT-2015
56 M€

Cross-Cutting ICT KETs

H2020-ICT-2014
18 M€ (9+9)

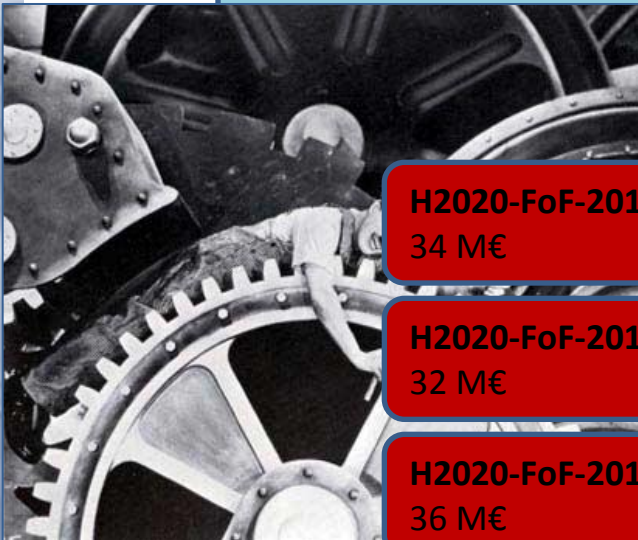
Development of Novel Materials and Systems for
OLED Lighting or Displays

Joint
ICT+NMBP

Programa ICT: Líneas temáticas en H2020 (VII)

PPP
FoF

Factories of the Future: Modernising Europe's Manufacturing Capabilities.



H2020-FoF-2014
34 M€

Process Optimisation of Manufacturing Assets

H2020-FoF-2015
32 M€

ICT-enabled Modelling, Simulation, Analytics and Forecasting Technologies

H2020-FoF-2015
36 M€

ICT Innovation for Manufacturing SMEs (I4MS)

Convocatoria en
NMBP!!

Programa ICT: Líneas temáticas en H2020 (VIII)

ICT Cross-Cutting Activities: Basic and generic ICT technologies of use for the development of products, services and technologies in the six main lines and beyond.

H2020-ICT-2015
51 M€

Internet of Things and Platforms for Connected Smart Objects

H2020-ICT-2014
7 M€

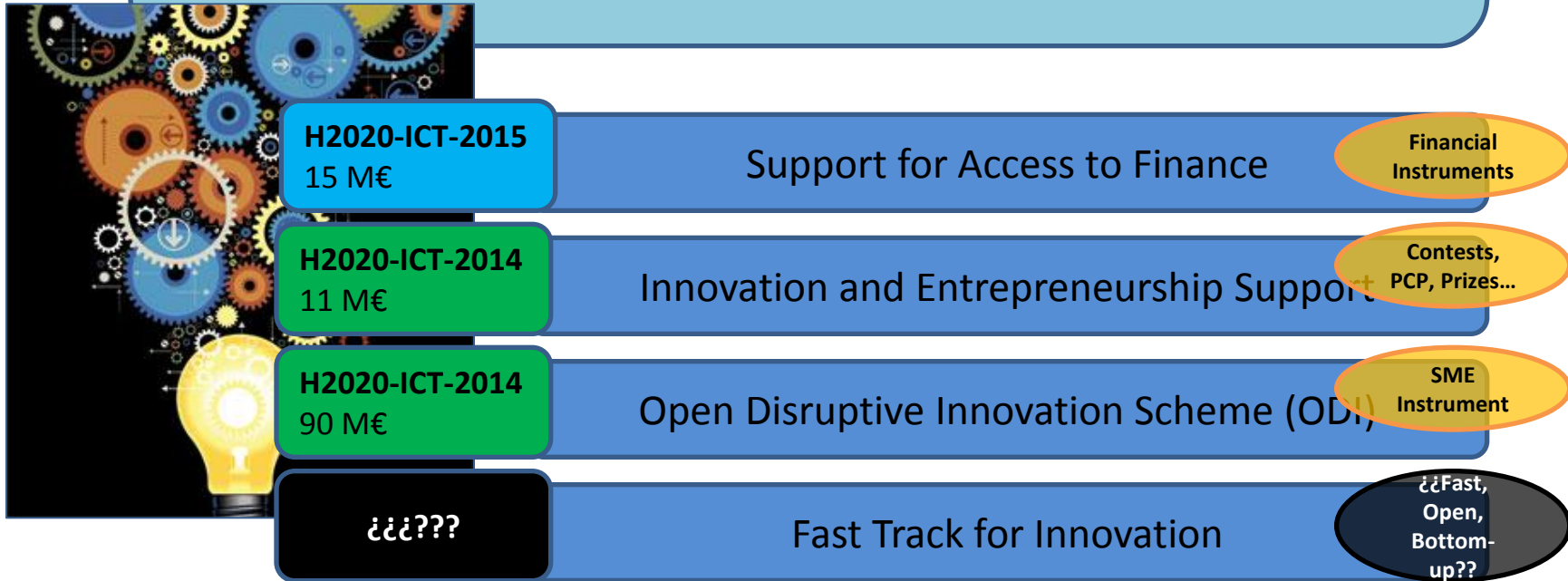
Human-centric Digital Age

H2020-ICT-2014
38 M€

Cybersecurity, Trustworthy ICT

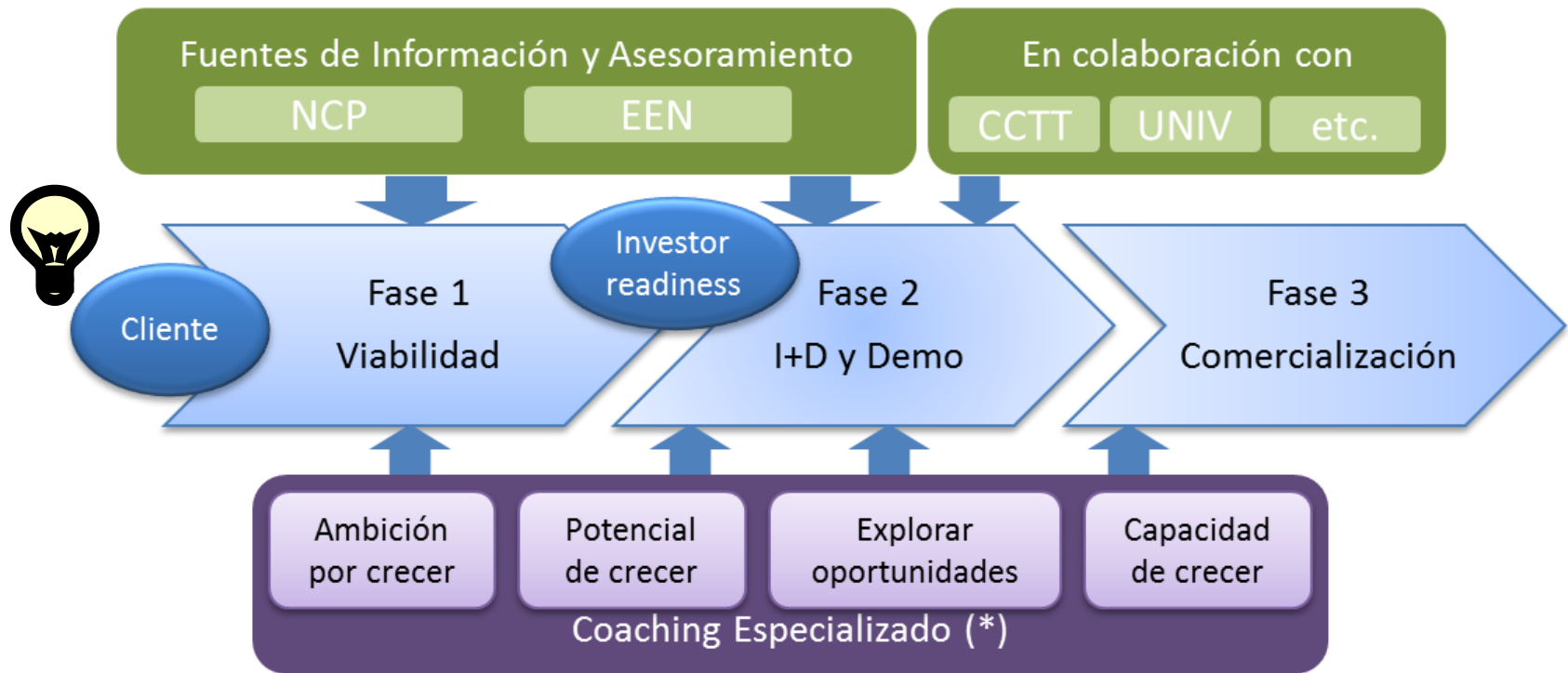
Programa ICT: Líneas temáticas en H2020 (IX)

Horizontal ICT Innovation Actions: Ensure best leverage of innovation actions across the challenges and ICT R&D in H2020 delivers the intended impact on growth and competitiveness.



Programa ICT: Líneas temáticas en H2020 (IX)

SME Instrument:



*Accesible a través de un KAM regional (Matching y seguimiento del coaching)

Programa ICT: Líneas temáticas en H2020 (X)

International Cooperation: International partnership building and support to dialogues with potential partners beyond Europe.



H2020-ICT-2015
3 M€

High Income Countries

CSA Actions

North America

East Asia / Oceania



H2020-ICT-2015
11 M€

Low and Middle Income Countries

R&D Actions

Sub-Saharan Africa

Programa ICT: Líneas temáticas en H2020 (X)

International Cooperation: EU-Brazil Research and Development Cooperation in Advanced Cyber Infrastructure.



H2020-EUB-2015
7 M€

Cloud Computing, including Security aspects

High Performance Computing

Experimental Platforms

Programa ICT: Líneas temáticas en H2020 (X)

International Cooperation: EU-Japan Research and Development Cooperation in Net Futures.



H2020-EUJ-2014
6 M€

Technologies combining Big Data, Internet of Things in the Cloud

Access Networks for Densely Located Users

Optical Communications

Experimentation and Development of Federated Japan-EU Testbeds

Próximas Convocatorias:

Las fechas marcadas como () son indicativas y están sujetas a una decisión de financiación específica para 2015.*



H2020-ICT-2014: 11/12/2013 – 23/04/2014
excepto: PPP 5G (cierre 25/11/2014)
excepto: ODI (diversas fechas de corte)

H2020-ICT-2015: 15/10/2014 – 21/04/2015(*)

H2020-FoF-2014/2015: 11/12/2013 – 20/03/2014
9/12/2014
(convocatoria específica en el programa NMBP)

H2020-EUB-2015: 15/10/2014 – 21/04/2015(*)

H2020-EUJ-2014: 7/01/2014 – 10/04/2014

Fast Track for Innovation : TBD

Aspectos a tener en cuenta:

- **Aspectos de Innovación:**
 - **Impacto (criterio principal en Acciones de Innovación e Instrumento PYME)**
 - Identificar **SIEMPRE** primero el impacto descrito en el WP para ese objetivo/topic!
 - **Compromiso Industrial**
 - **Plan de Explotación**
 - **Gestión de los DPI:** <https://www.iprhelpdesk.eu/>
 - **Contribución a Standards:** <http://ec.europa.eu/digital-agenda/events/cf/ict2013/item-display.cfm?id=11541>
 - **Posibles Patentes (ojo a cuándo se desvela la documentación técnica)**
 - **Aspectos de Open Access y Data Management Plan:** <https://ec.europa.eu/digital-agenda/en/news/open-access-eu-project-results-go-public>
 - **Etc**
- **Evaluación remota y en una única fase (salvo excepciones). Multi-step?**
- **Plazos previstos de 5+3 meses: Apenas habrá tiempo para negociaciones. Las propuestas seguirán la estructura de la DoW del Grant Agreement.**
- **Ojo a las posibles limitaciones de páginas: warn & watermark**

Aspectos a tener en cuenta:

- **Comprobar SIEMPRE la viabilidad financiera de los coordinadores y el estatus de PYME; es posible que no haya tiempo para cambios después:**
 - [Financial Viability Check Tool](#)
- **Darse de alta en la base de datos de evaluadores/revisores de la Comisión para H2020:**
<http://ec.europa.eu/research/participants/portal/page/experts>
- **Atentos a los Infodays CDTI:**
 - 21/01 – Network Technologies
 - 28/01 – Content Technologies
 - 4/02 – Micro-Nano-Electronics, Photonics and Robotics
- **Documentación Convocatoria 2014:**
<http://www.cdti.es/index.asp?MP=9&MS=31&MN=2&TR=A&IDR=7&xtor=RSS-4&id=584>



Personas de Contacto en CDTI:

Leadership in Enabling and Industrial Technologies: ICT



Esther Casado Moya: Content Technologies & Information Management. SME Instrument.
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Paloma Dorado Aguilar: Components & Systems. μ -n-electronics. ECSEL JTI.
paloma.dorado@cdti.es

Fernando Martín Galende: Advanced Computing. Robotics. Photonics. Factories of the Future. EU-Brazil Actions.
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Fernando Rico Ríos: Future Internet. ICT Cross-cutting Activities. Access to finance, Innovation and Entrepreneurship. EU-Japan Actions.
fernando.rico@cdti.es



Personas de Contacto en CDTI:

Societal Challenges: ICT Applications



Health: eHealth, Ageing, AAL, etc.

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carolina.carrasco@cdti.es

Energy: ICT for Energy Efficiency, Smart Cities, ICT for Smart Grids, Energy Efficient Buildings, etc.

luisa.revilla@cdti.es

Transport: Intelligent Transport Systems, Green Cars, Urban Mobility, Logistics, etc.

alejandro.ruiz@cdti.es

Climate: ICT for Environment, Water Management, Waste Management, etc.

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lydia.gonzalez@cdti.es



Personas de Contacto en CDTI:

Societal Challenges: ICT Applications *LEIT: Public Private Partnerships*



Security: Privacy, Access Control, Secure Information Sharing, Trust eServices, Critical Infrastructures Protection, etc.

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Food: Food Chain Data Standardisation, etc.

josemanuel.gonzalez@cdti.es

marta.conde@cdti.es

NMBP: PPP of Factories of the Future and Energy Efficient Buildings.

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MUCHAS GRACIAS

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Punto Nacional de Contacto

ICT – Horizonte2020

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