

## Horizon 2020 & Comportunities in ICT

#### **ICT** in the 3 Pillars

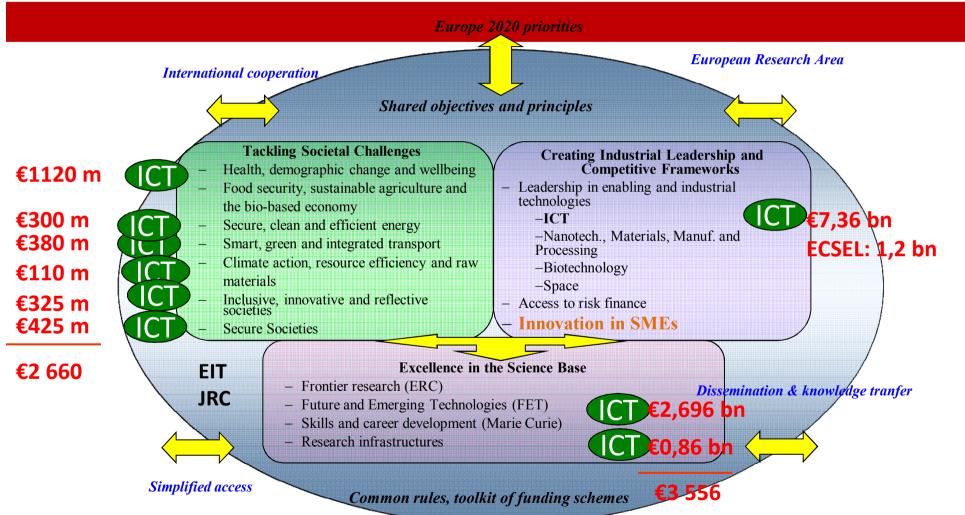




## Simplification?



#### ICT in H2020 (€ 13 576)





## A guide to ICT-related activities in WP2014-15

http://ec.europa.eu/information society/newsroom/cf/dae/document.cfm?doc id=3511

#### **Guide to the presence of ICT in H2020**

Find out more:

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

#### A guide to ICT-related activities in WP2014-15:

http://ec.europa.eu/information\_society/newsroom/cf/dae/document.cfm?doc\_id=3511

#### **H2020** launched first calls:

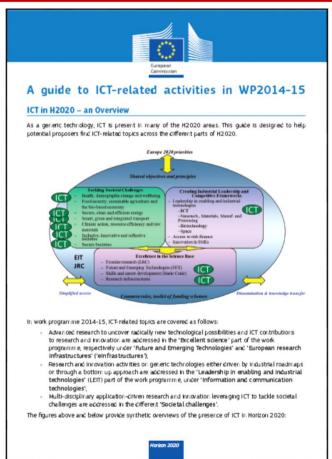
http://ec.europa.eu/programmes/horizon2020/en/news/horizon2020-launched-%E2%82%AC15-billion-over-first-two-years

#### H2020 Calls published, see here:

https://ec.europa.eu/research/participants/portal/desktop/en/opp ortunities/h2020/master calls.html#h2020-fof-2014-2015

#### The Participant Portal:

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



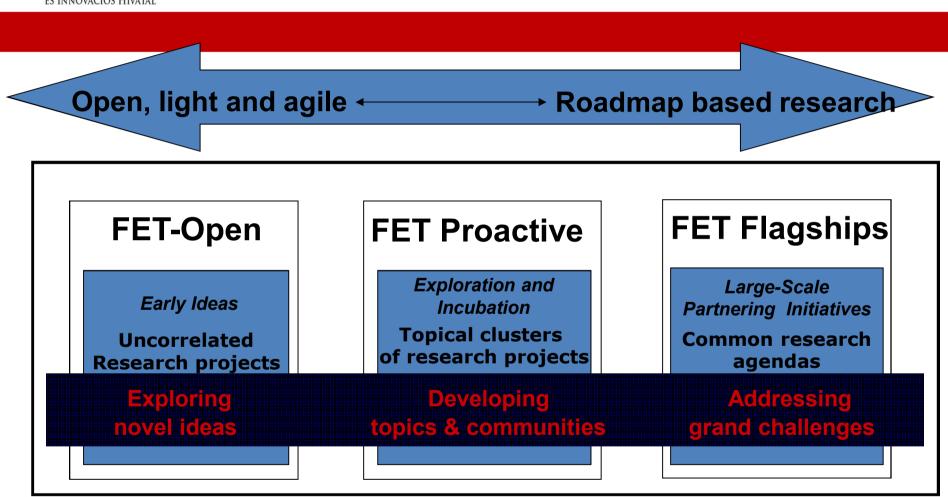
http://ec.europa.eu/information society/newsroom/cf/dae/document.cfm?doc http://ec.europa.eu/information society/newsroom/cf/dae/document.cfm?doc

#### **ICT** in Excellent science





#### FET – 3 complementary funding schemes



#### ICT in Societal challenges



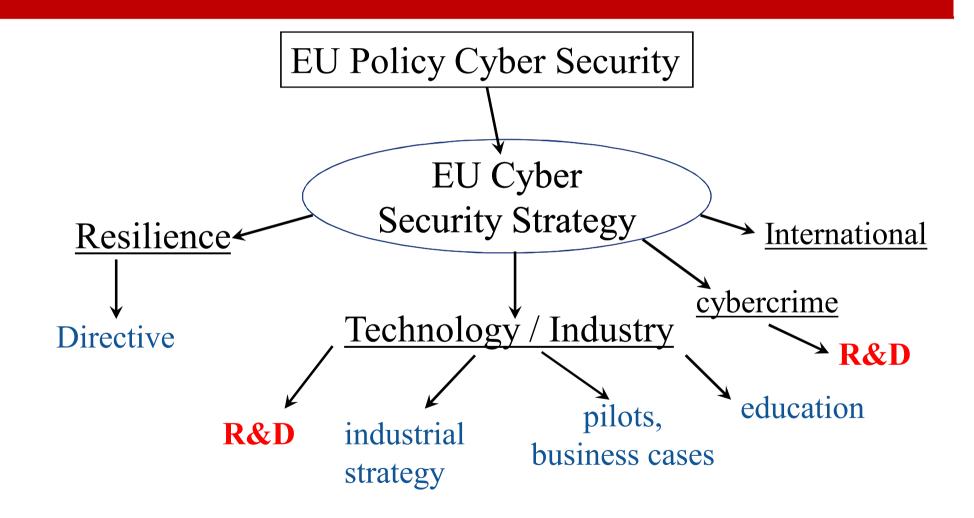


#### **Cybersecurity R&D&I in H2020**

&

Workprogram 2014 -2015





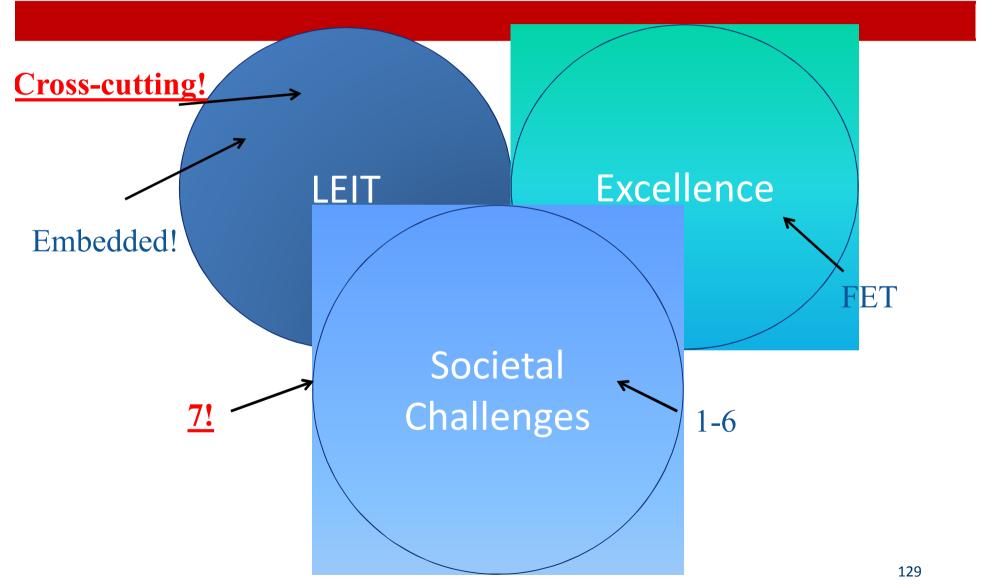


#### Where to find cybersecurity R&D&I in H2020?

## Everywhere!

change of mindset







#### **Example: smart grids**

- quantum teleportation => FET
- cryptography? => LEIT
- SCADA? => SC7
- smart meter? => SC3
- smart city? => SC3

=> determine your focus!



## H2020 Societal Challenge 7 - Secure societies "Protecting freedom and security of Europe and its citizens"

Digital Security: Cybersecurity, Privacy & Trust H2020-DS-2015-1

#### Four key concepts



- Secure societies Protecting freedom and security of Europe and its citizens.
- Address the economic and societal dimension of security and privacy in the digital ecosystem.
- Secure and increase trust in the digital society.
- Demonstrate the viability and maturity of state-of-the-art solutions.

#### **Four Topics**



- DS-03-2015: The role of ICT in Critical Infrastructure Protection (IA)
- > DS-04-2015: Information driven Cyber Security Management (IA)
- DS-05-2015: Trust eServices (IA)
- DS-07-2015: Value-sensitive technological innovation in Cybersecurity (CSA)

## The role of ICT in Critical Infrastructure Protection DS3



- Addressing security in the use of ICT in Critical Infrastructure (networks, systems, IACS, SCADA).
- The investigated concepts have to be tested in a field trial. SMEs are
  particularly encouraged to provide specific and very focused
  security solutions adapting current ICT security technology to IACS
  environments.
- <u>Impact</u>: Resilience, increased preparedness, reduced response time and coordinated response in case of a cyber-incident. Reduced possibilities to misuse ICT as a vehicle to commit cybercrime or cyber-terrorism.

## **Information driven Cyber Security Management DS4**



- Incidents, vulnerabilities, weaknesses and potential impact, threats, adversary's behaviour, capability, and intent.
- Need to efficiently process the flow of information from both internal and external sources, through improved information processing, analysis and, where necessary, exchange.
- <u>Impact</u>: Effective vulnerability remediation, enhanced prevention and detection capabilities and faster response to incidents.



- Electronic signatures, e-seals, timestamps or certified electronic delivery. Regulation (EU) No 910/2014.
- Comparison and interoperability of electronic trust services covering aspects such as security assurance levels, operational security audits, state supervision systems, data protection regimes or liability of trust service providers.
- <u>Impact</u>: Empower and protect users in their digital experiences like e-contracting, e-bidding, e-invoicing, accessing social networks, or accessing the services of local or national administrations.



## Value-sensitive technological innovation in Cybersecurity DS 7

- Ensure a flourishing information society which offers safety and security and at the same time respects Europe's fundamental values and rights.
- Fundamental values and rights taken into account in the development process and applied when used in innovative services and products
- Coordination & Support Action.

#### **Practical Info**



- Call identifier: H2020-DS-2015-1
- Indicative budget: 50,21 million EURO
  - DS-03-2015 17.50
  - DS-05-2015 14.31
  - DS-05-2014 17.40
  - DS-07-2015 1.00
- Published: 11 Dec 2013, <u>Amended in 2014</u>
- Opening date: 25/03/2015
- Deadline: 27 August 2015, 17.00.00 CET



#### Only instrument: Innovation Actions

- Activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services.
- Prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.



#### **Innovation Actions (1/2)**

#### A 'demonstration or pilot':

- aims to validate the technical and economic viability of a new or improved technology, product, process, service or solution... (ie, validate innovation)
- in an operational (or near to operational) environment, whether industrial or otherwise...
- involving where appropriate a larger scale prototype or demonstrator.



#### **Innovation Actions (2/2)**

- Projects may include limited research and development activities.
- Funding rate: 70% (except for non-profit legal entities, where the rate is 100%)

#### NEMZETI KUTATÁSI, FEJLESZTÉSI ÉS INNOVÁCIÓS HIVATAL

#### **Useful links - Cybersecurity**

#### **Policy**

- The EU cybersecurity strategy An Open, Safe and Secure Cyberspace 2013
- European Programme for Critical Infrastructure Protection (EPCIP)
- Digital Agenda targets relevant to cyber security

#### **H2020 Cybersecurity – Workprogrammes**

- SC7 Security
- LEIT ICT

#### **Trust & Security**

- http://ec.europa.eu/digital-agenda/en/telecoms-and-internet/trust-security
- http://ec.europa.eu/digital-agenda/en/cybersecurity



#### CNECT-TRUST-SECURITY@ec.europa.eu

@EU\_TrustSec



#### Horizont2020 - ICT információs napok

2015 calls

H2020 Secure Societies Information Day <a href="http://ec.europa.eu/rea/about us/events/h2020 secure societies information n day en.htm">http://ec.europa.eu/rea/about us/events/h2020 secure societies information n day en.htm</a>

Cybersecurity & Privacy Innovation Forum, 28-29 April 2015 <a href="https://www.cspforum.eu/2015/programme">https://www.cspforum.eu/2015/programme</a>

2nd High-level Cybersecurity Conference, 28th May 2015 <a href="http://ec.europa.eu/digital-agenda/en/news/save-date-2nd-high-level-cybersecurity-conference-28th-may-2015">http://ec.europa.eu/digital-agenda/en/news/save-date-2nd-high-level-cybersecurity-conference-28th-may-2015</a>

#### Horizont2020 - ICT információs napok

2015 calls

#### ICT Proposers Day – OCT 2014

Előadások az ICT Proposers Day-ről (digital security videót érdemes nézni, rövid előadás az elvárásokról, valamint több profil/projektötlet prezentáció) <a href="http://www.youtube.com/user/ICTHungary">http://www.youtube.com/user/ICTHungary</a>

A Digital Security szekció oldala a rendezvényen <a href="http://ec.europa.eu/digital-agenda/en/news/ict-proposers-day-2014-digital-security">http://ec.europa.eu/digital-agenda/en/news/ict-proposers-day-2014-digital-security</a>

Kapcsolatépítő rendezvény, profilok, projektötletek (Social challenge 7-re, vagy "security" és egyéb kulcsszavakra szűrhető <a href="https://www.b2match.eu/proposersday2014/participants?utf8=%E2%9C%93&q=&bfs%5B%5D=16236">https://www.b2match.eu/proposersday2014/participants?utf8=%E2%9C%93&q=&bfs%5B%5D=16236</a>



#### Horizont2020 - ICT információs napok

2015 calls

### H2020 Information day - Digital Security: Cybersecurity, Privacy, and Trustworthy ICT – JAN 2014

https://ec.europa.eu/digital-agenda/en/news/h2020-information-day-digital-security-cybersecurity-privacy-and-trustworthy-ict

Plenary presentations (felhívások elvárásai) <a href="http://ec.europa.eu/digital-agenda/events/cf/h2020-digital-security/stream-items.cfm?id=249">http://ec.europa.eu/digital-agenda/events/cf/h2020-digital-security/stream-items.cfm?id=249</a>

Proposers' presentations (projektötletek, résztvevői profilok) <a href="http://ec.europa.eu/digital-agenda/events/cf/h2020-digital-security/stream-items.cfm?id=240">http://ec.europa.eu/digital-agenda/events/cf/h2020-digital-security/stream-items.cfm?id=240</a>



## ICT 2016-17



#### Structure, budget

**CH1: Components and Systems** 

**CH2: Advanced computing and** 

**Cloud Computing** 

**CH3: Future Internet** 

**CH4: Content technologies** 

**CH5: Robotics** 

**CH6: Micro-Nano and Photonics** 

2016 – 17: 1526,2

Y1: 736,2

Y2: 790,0

**ICT Cross-Cutting Activities** 

**Manufacturing** 

**Internet of Things** 

**Cyber-Security** 

**Open Disruptive Innovation** 

**Fast track to Innovation** 

RRI/SSH and creative dialogue

**Horizontal Innovation** 

**International Activities** 

#### **ICT Cross-Cutting Activities**



#### **Digital Security**

- R&I to securely design and deploy trustworthy ICT products, systems and services.
- LEIT-ICT is complemented by work in SC7 on topics such as Cyber Security for SMEs and Individuals, Security Economics, Privacy and Data Protection as well as "Increasing digital security of health related data on a systemic level" in SC1.

Topics	43M
Assurance and certification	23.5M
Cryptography	17.5M
Prize	2M



# PARTNER SEARCH & PROPOSAL DEVELOPMENT

Your Worldwide ICT Support Network

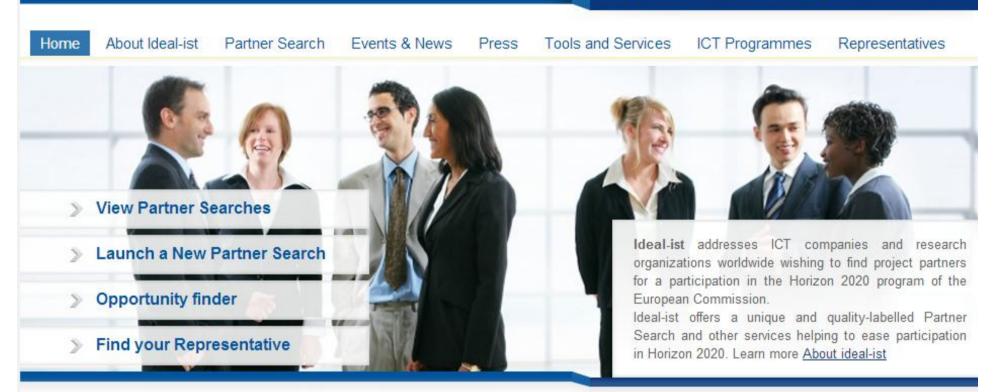
Thu. 20/02/2014



> Hello Edina Nemeth

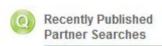
> Logout

> Consortium Area





- > H2020 EU-JAPAN -2014 Close date: 10/04/2014
- > H2020 FoF -2014/2015



- > PS-AT-89331: K4FoF
- PS-SK-89303: [ EuroLangNet 21+3 ] European network



#### In QA proccess

- > PS-NO-89154: Inclusive-MT
- > PS-NO-89152: Inclusive-MT

View All



- European Data Forum 2014
- > Future Internet Assembly





#### **Key events**

#### ICT 2015 - 20-22 Oct 2015

Lisbon, Portugal

Információ – kapcsolatépítés – konzorciumalakítás - kiállítás

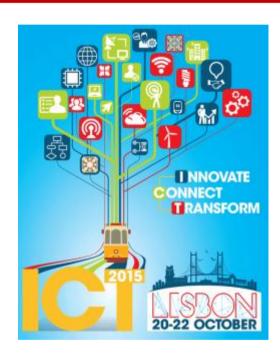
Bővebb

információ: <a href="http://www.ec.europa.eu/digital-">http://www.ec.europa.eu/digital-</a>

agenda/ICT2015

Kövesse a fejleményeket

twitteren: <a href="https://twitter.com/ICT2015eu">https://twitter.com/ICT2015eu</a>









#### *e*DIGIREGION

Realising The Digital Agenda Through
Transnational Cooperation
Between Regions

http://www.edigiregion.eu/







#### 1st eDIGIREGION International Conference 19 May 2015 – Budapest, Hungary

The Internet of Things is *not* the future. The Internet of Things is here, today. But are industry, policy makers, and academia ready?

Businesses across the world – high tech and traditional – are racing to identify opportunities in the new digital innovation ecosystem to take-up and deploy high impact technologies, build new business models, revolutionize value chains, and provide innovative products and services for citizens, businesses and government. Policy makers are designing smart specialisation initiatives that engage the actors of regional digital innovation ecosystems and lead to efficient academy-industry cooperation contributing to growth and global competitiveness.

The eDigiregion International Conference is an annual event supported by the European Commission that presents novel approaches of businesses and policy makers to reap the benefits of the digital innovation ecosystems. The eDigiregion International Conference will exchanges experience on smart specialisation initiatives, and business models that have contributed to boosting regional innovation ecosystems based on advances in information and communication technologies.

The eDigiregion 2015 International Conference will be the first event in this series, and will take place in Budapest, Hungary on 19th May 2015. In 2015 the conference focuses on future internet and internet of things technologies and applications.



#### Thank you for your attention!

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