

# Perspectives for EU-LAC cooperation in e-Infrastructures in Horizon 2020

Conferencia AMERICAS "EU-LAC ICT&e-infrastructures for R&D  
Cooperation"

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# H2020 overview

# Horizon 2020

- A European Research & Innovation funding programme (2014-20) (~77 billion Euro)
- Part of proposals for next EU budget, complementing Structural Funds, education, etc.
- A core part of Europe 2020, Innovation Union & European Research Area:
  - **Responding to the economic crisis** to invest in future jobs and growth
  - **Addressing peoples' concerns** about their livelihoods, safety and environment
  - **Strengthening the EU's global position** in research, innovation and technology

# International Cooperation under Horizon 2020

- **International cooperation will be a cross-cutting issue in H2020 with a similar approach to the practice under FP7**
  - **General opening of the programme** (all 3rd countries can participate)
  - **Targeted openings**, partners from identified countries/regions are welcome to participate (but this is not an eligibility criterion)
  - **Horizontal actions on international cooperation** (eligibility criteria may apply)
  - **Coordinated calls** (agreed with third countries)
- **Actions with specific third countries will be implemented on the basis of common interest and mutual benefit**
- **Reciprocal access to third country programmes encouraged**
- **Certain middle income countries (Brazil, Russia, China, India and Mexico) no longer eligible for automatic EC funding.**

# A stronger, clearer focus





# Societal challenges

- EU policy objectives (health and well-being, ageing, climate, environment, energy, transport...) cannot be achieved without innovation
- Breakthrough solutions come from multi-disciplinary collaborations, including social sciences & humanities
- Promising solutions need to be tested, demonstrated and scaled up

# Industrial leadership

- Strategic investments in key technologies (e.g. advanced manufacturing, micro-electronics) underpin innovation across existing and emerging sectors
- Europe needs to attract more private investment in research and innovation
- Europe needs more innovative SMEs to create growth and jobs

# Excellent science

- *World class science is the foundation of tomorrow's technologies, jobs and well-being*
  - *Europe needs to develop, attract and retain research talent*
  - *Researchers need access to the best infrastructures*
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- *ERC– European Research Council (Frontier research by the best individual teams)*
  - *FET - Future and Emerging Technologies (Collaborative research to open new fields of innovation)*
  - *Marie Curie (Training and career development)*
  - *Research infrastructures ,including e-infrastructures (Ensuring access to world-class facilities )*

# Leadership in Enabling and Industrial Technologies LEIT Draft Work-programme 2014-15

# ICT in Industrial Leadership

1. Components and systems
  2. Advanced Computing
  3. Future Internet
  4. Content technologies and information management
  5. Robotics
  6. Key Enabling Technologies: Micro-nano-electronics and photonics
- + Factory of the Future cPPP
- + International Cooperation actions (EU-Brazil, EU-Japan)

## ICT Cross cutting activities:

- Internet of Things
- Human-centric Digital Age
- Cybersecurity
- Support to NCPs

## ICT Innovation actions

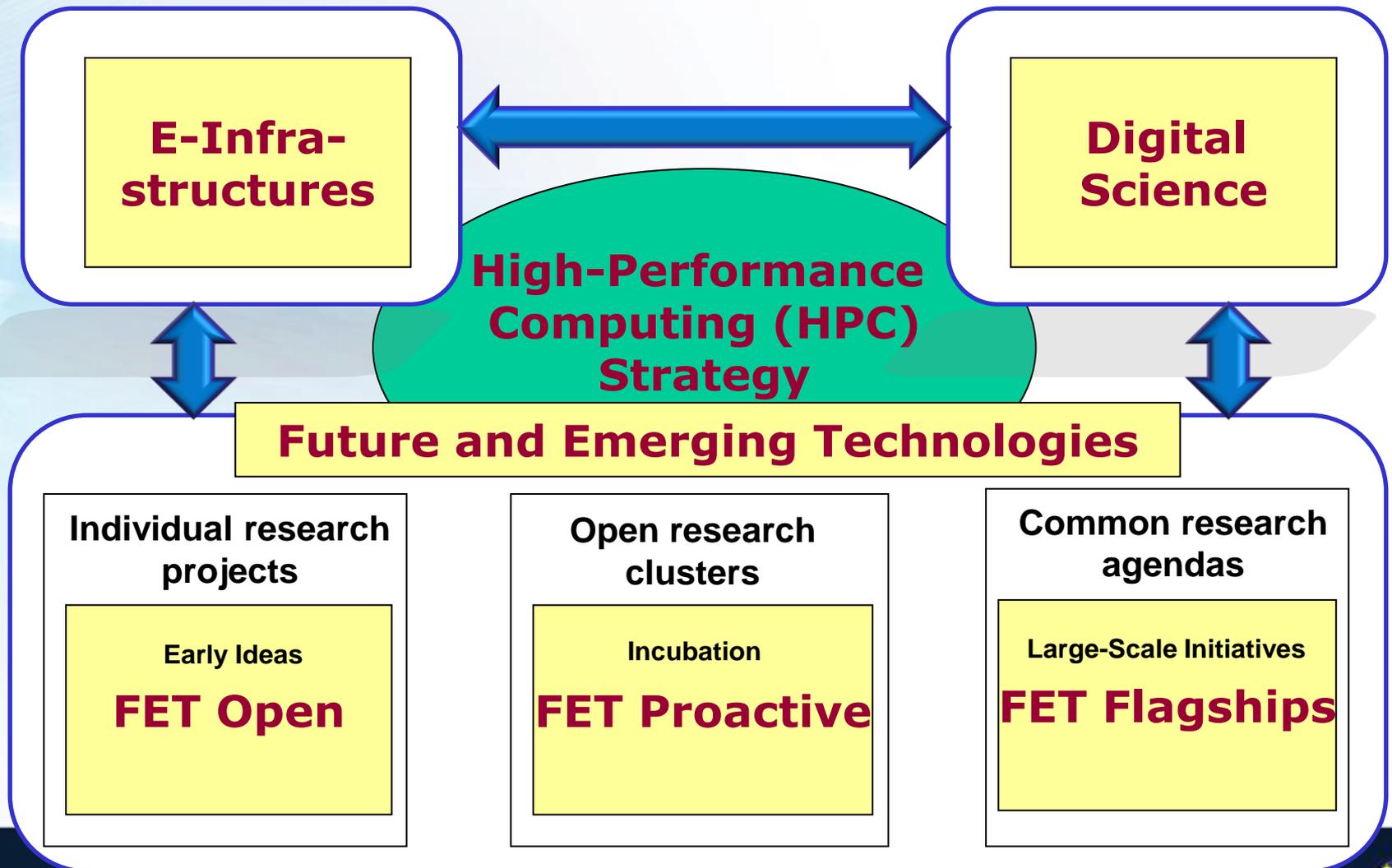
- Access to finance
- Innovation policy support
- Open disruptive innovation scheme (SME instrument)

# International Cooperation actions

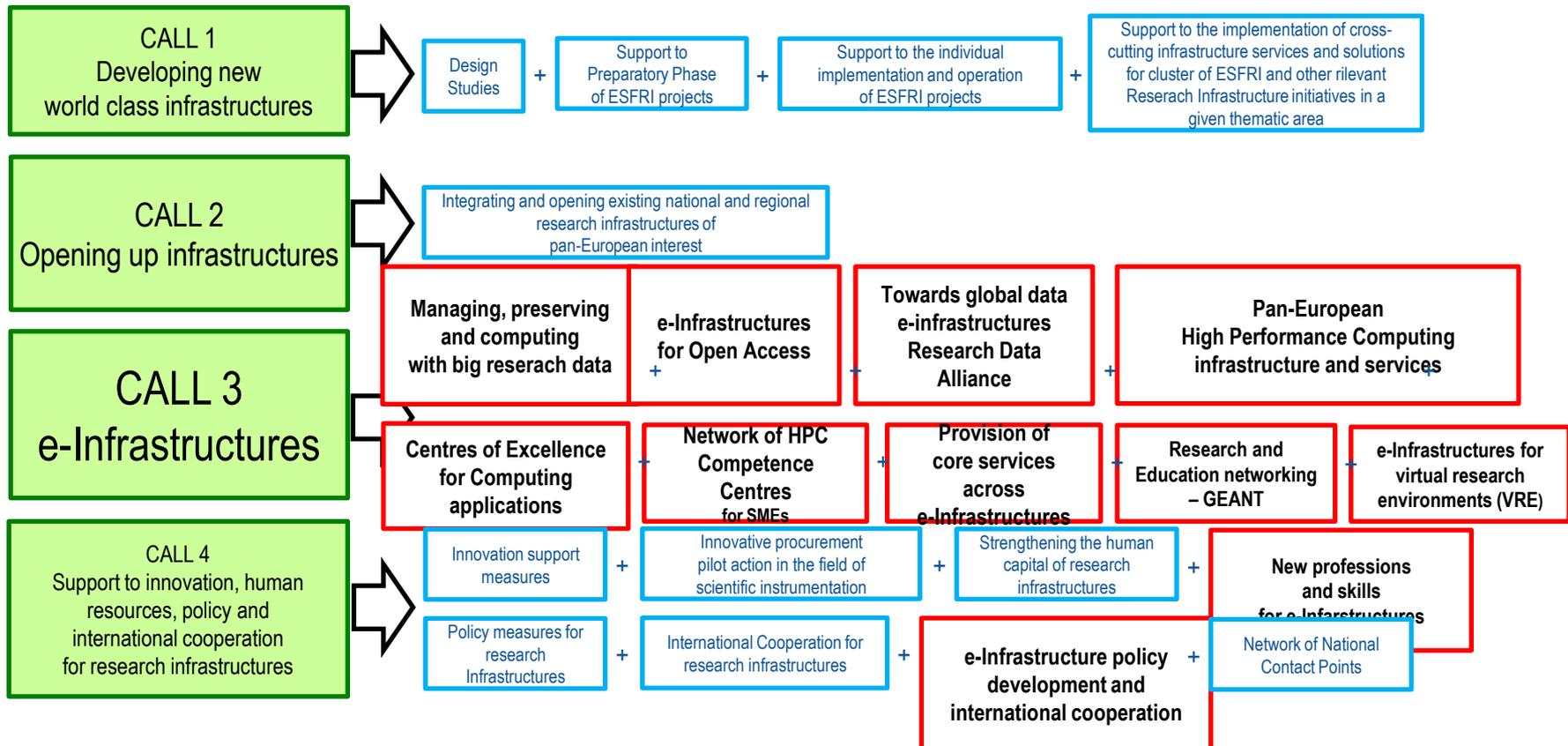
- Two coordinated calls
  - EUB: Brazil (advanced cyber infrastructure) (~7M)
    - Cloud Computing, including security
    - High Performance Computing (HPC) applications
    - Experimental Platforms
  - EUJ: Japan (Network Futures) (~6M)
- ICT36: International partnership building and support to dialogues with high income countries (USA, Canada and East Asia) (~3M)
- ICT37: International partnership building in low and middle income countries (~11M)
- Targeted opening on Future Internet Research and Experimentation (FIRE), Micro- and nano electronics with US, Japan, Brazil and South Korea

# Draft Excellent Science Work-programme 2014-15

# ICT in Excellent Science



## RESEARCH INFRASTRUCTURE Work Programme 2014-2015 (DRAFT)



# International Cooperation actions in e-infrastructures (DRAFT)

INFRA SUPP 7-2014 – e-Infrastructure policy development and international cooperation (~ 5 m€)

1. Dissemination of information on the e-Infrastructure programme and of project results, including coordination among projects;
2. Stakeholder initiatives, including a user forum to provide orientations for e-Infrastructure service interoperability and integration;
3. Policy coordination with the major national and European policy makers, including the collection of information needed for policy making e.g. through consultation actions and surveys as well as the wider use of e-infrastructures for public services and society;
4. Support to monitoring results and assessing impact of the Horizon 2020 e-Infrastructure activities, including through metrics and indicators;
5. Monitor and analyse the take-up of digital science and e-infrastructures by researchers and possible other users, such as citizens and the education sector, per country, region and research domain or community;
6. Support to technology transfer from the e-infrastructures projects to the market;
7. Support to cooperation with developing countries and regions to promote connectivity, global e-Infrastructure services, identification of use cases and promising applications of particular interest for developing regions.

# ICT 2013: Create, Connect, Grow

## 6-8 November 2013, Vilnius

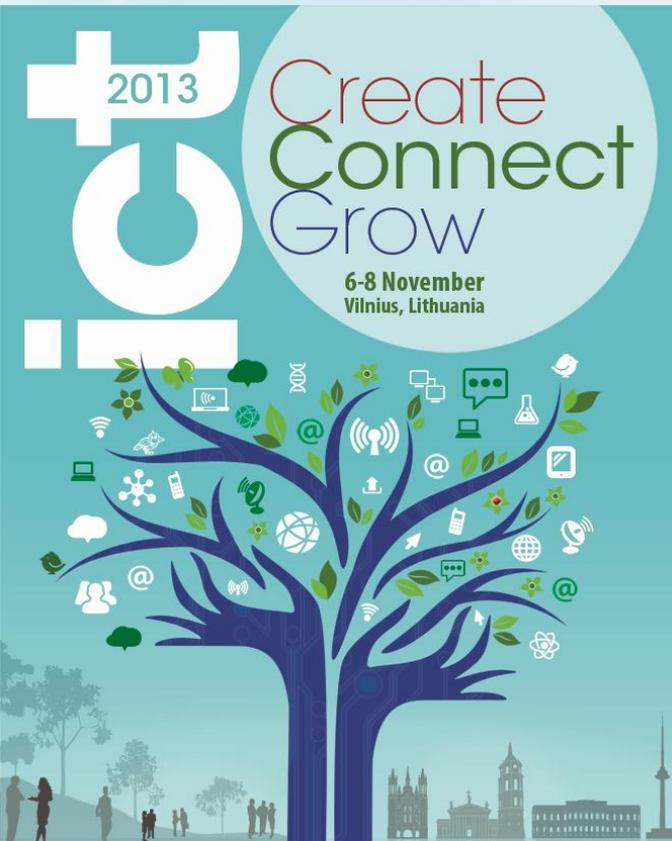
### Aim of the event:

ICT in Horizon 2020 - the EU's Framework Programme for Research and Innovation for 2014-2020.

### Structure of the event :

- conference,
- exhibition,
- networking.

**Registration:** Open from the end of April 2013





# Thank you for your attention!

**Find out more:**

[www.ec.europa.eu/research/horizon2020](http://www.ec.europa.eu/research/horizon2020)