

ICT priorities for R&I collaboration in Horizon 2020

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CUDI 2013
REUNIÓN DE OTOÑO
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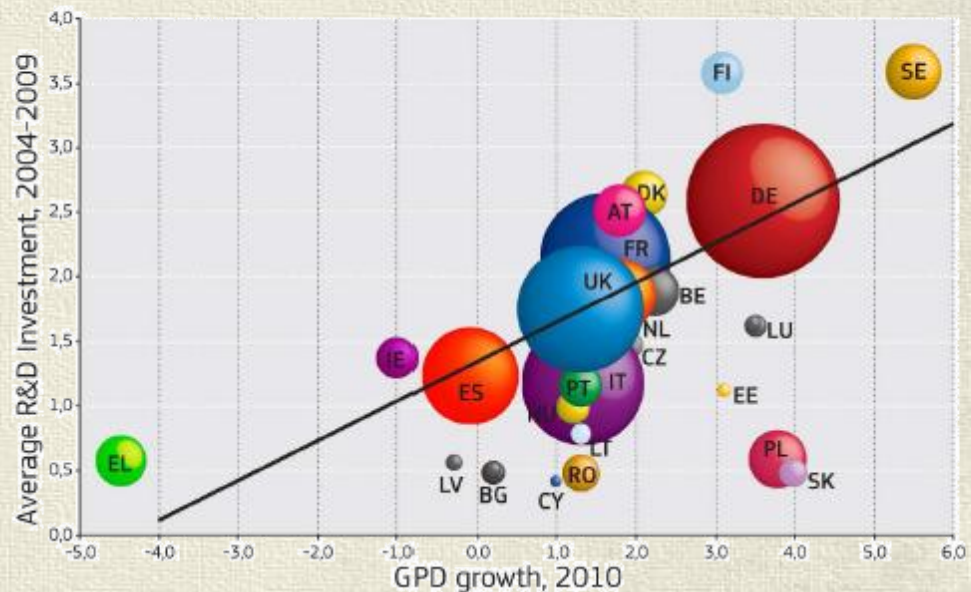


Fecha

Three priorities:

1. Excellent science
2. Industrial leadership
3. Societal challenges

**Investment in R&D is part of the solution
to exit from the economic crises**



A new generation of components and systems: engineering of advanced and smart embedded components and systems

Next generation computing: advanced computing systems and technologies

Future Internet: infrastructures, technologies and services

Content technologies and information management: ICT for digital content and creativity

Advanced interfaces and robots: robotics and smart spaces

Micro and nanoelectronics and photonics

*ICT-specific research infrastructures such as **living labs** for large-scale experimentation and infrastructures for underlying key enabling technologies*

ICT as enabler priorities:

ICT for health, ageing well, Inclusion and Governance (Challenge 5)

ICT for Creativity and Learning (Challenge 8)

Internet of Things for **Smart Cities** (Objective- ICT-2013.1.4)

Optimising Energy Systems in **Smart Cities** (Objective ICT-2013.6.4)

Integrated personal mobility for **Smart Cities** (Objective ICT-2013.6.6)

Connected and Social Media - Future Networks (Objective ICT-2013.1.6)

User-centred open innovation (Objective -ICT-2013.5.5)

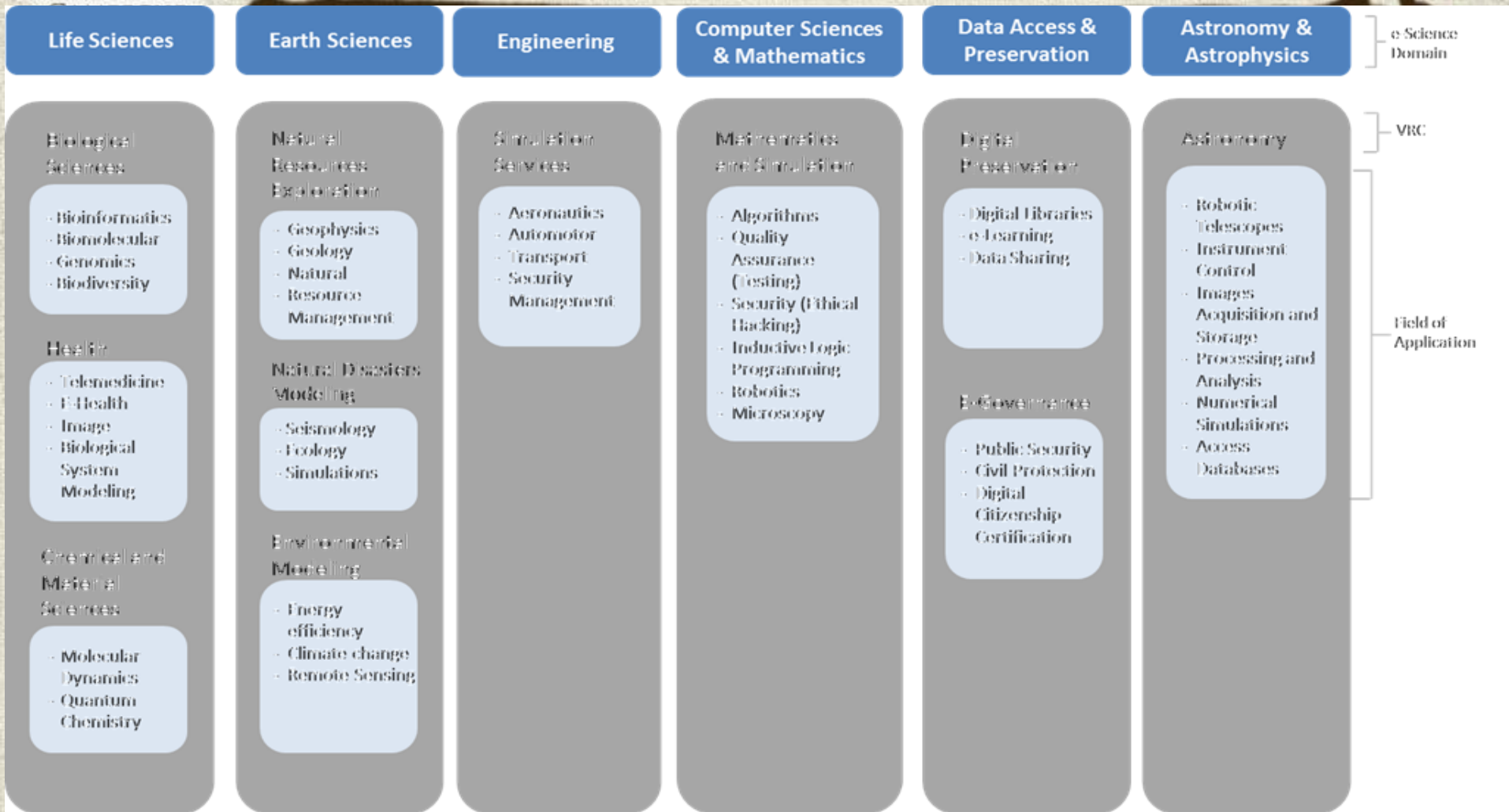
ICT focused priorities:

Network and services infrastructures (Objective -ICT-2013.1.1)

Components and Systems (Objective ICT-2013.3.3)

Software Engineering, Services and Cloud Computing (Objective ICT-2013.1.2)

E-Science Domains, Communities & Application fields

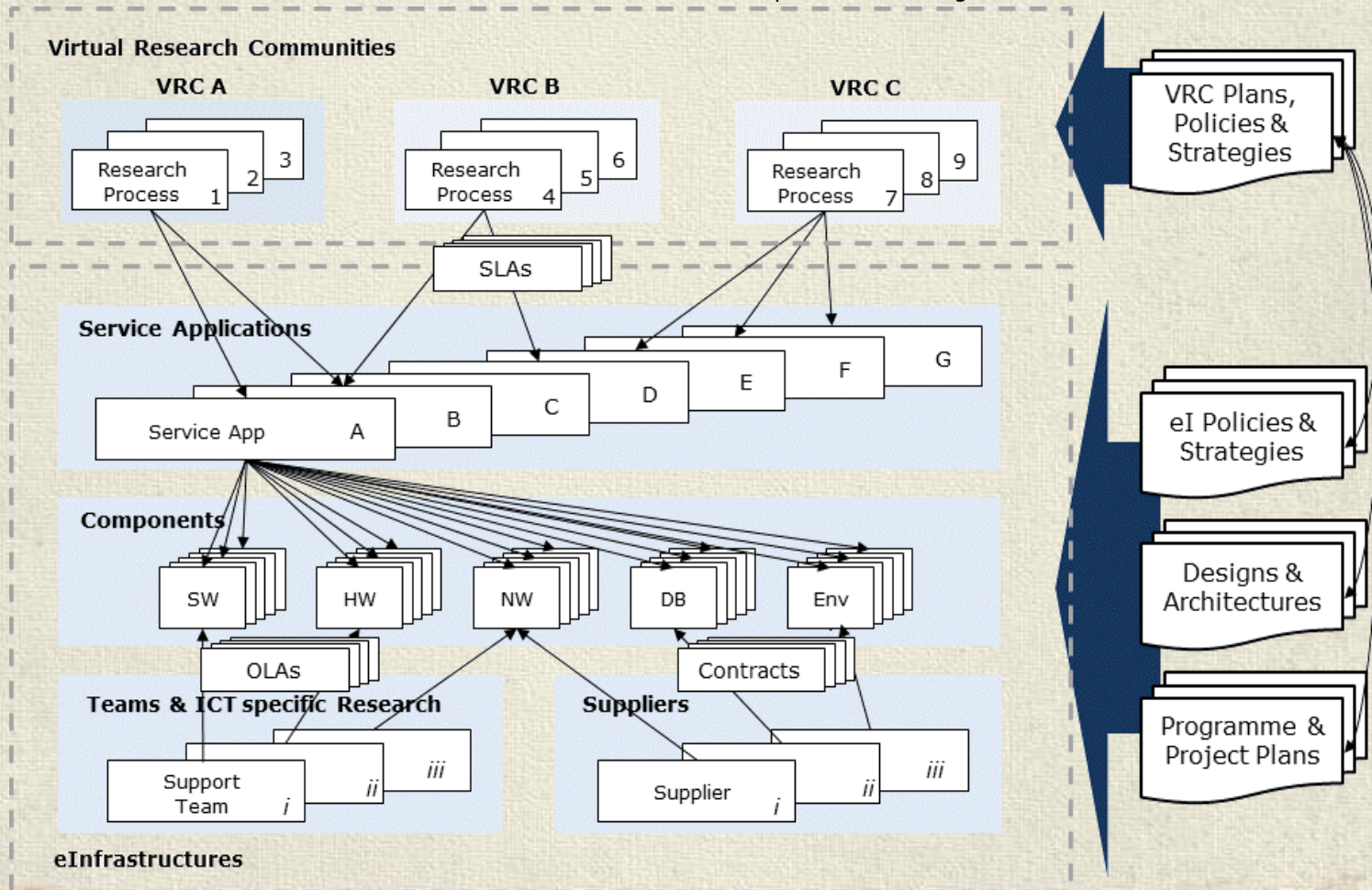


GENERIC E-INFRASTRUCTURES

VRC: Virtual Research Community
SW: Software
HW: Hardware
NW: Network

DB: Databases
Env.: Environment
SLA: Service Level Agreement
OLA: Operation Level Agreement

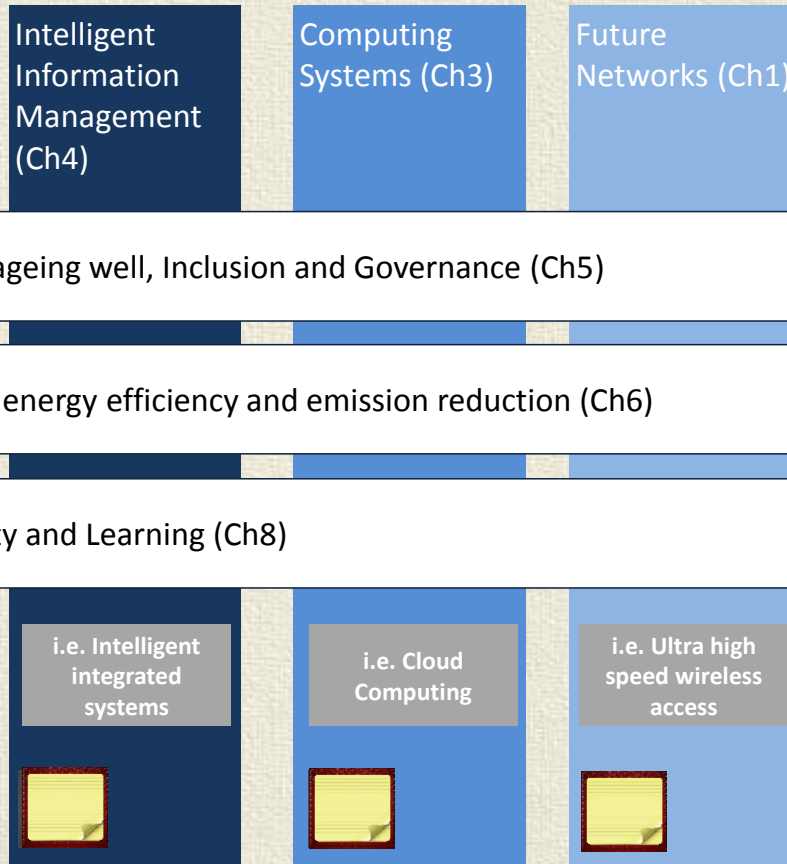
2, 3 Y 4 DE OCTUBRE





ICT Priorities & e-Infrastructures collaboration

ICT R&D key priority areas 2, 3 Y 4 DE OCTUBRE
(Technology focused)

ICT R&D key priority areas
(Technology as enabler)



 Technologies

 Scenarios

Scenario A

ICT solutions for governance and policy modelling: Access and Delivery of Next Generation Public Services. Massive government clouds.

Scenario B

ICT for efficient water resources management: high performance computing for real time hydrological models in agriculture.

Scenario C

ICT systems for energy efficiency and emission reduction: Energy-Efficient Management of Data Centre Resources.

ICT is a key enabler in our Society. The last one must be the driver!

International cooperation is a key factor in ICT R&D, particularly in the context of EU-LA.

A common R&D Agenda is important to establish ICT R&D priorities.

Keeping in mind, ICT R&D priorities depend on:

Talent

Infrastructure

Institutional coordination

in the context of the triple helix matrix: Government, Industry, Academia



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Muchas gracias

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