

e-IRG Workshop

HORIZON 2020

Poznan, 12 October 2011

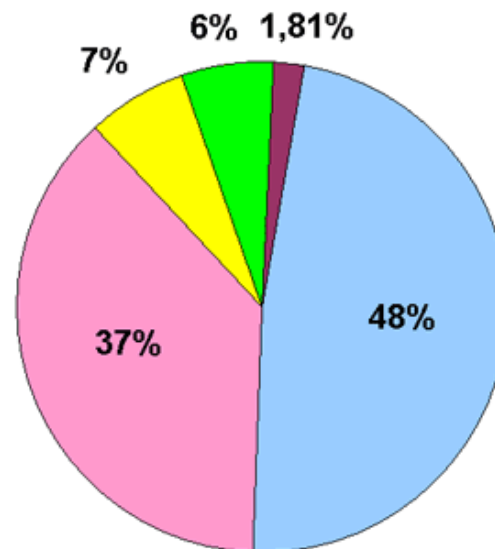
Current state of R&D&I EU funding

- **7th Framework Programme (FP7)** for research, technological development and demonstration
 - €53 billion (2007-13). 4 main programmes on Ideas, Cooperation, People and Capacities.
- **Competitiveness and Innovation Programme (CIP)**
 - €3.6 billion (2007-13). 3 programmes on enterprise & innovation, intelligent energy, and ICT policy support.
- **European Institute for Innovation and Technology (EIT)**
 - Autonomous EU body bringing together higher education, research and business to stimulate innovation in Knowledge and Innovation Communities. EU budget contribution of €309 million (2007-13)
- **Structural Funds**
 - €86 billion allocated (2007-13) to R&D and innovation, entrepreneurship, ICT and human capital development

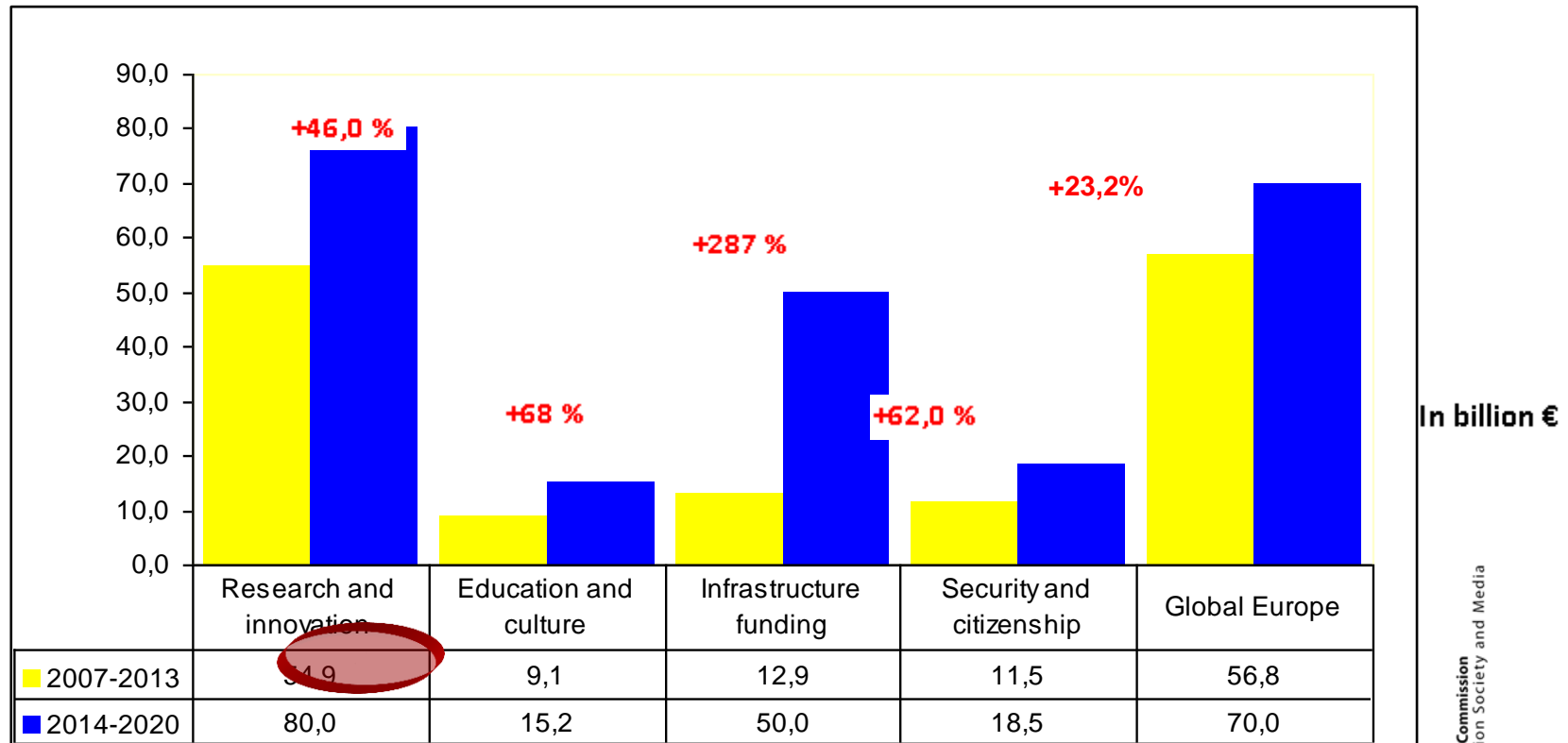
Multiannual Financial Framework (MFF) – 29/06/2011

- **Smart and Inclusive Growth - 47.89%**
 - Economic, Social and Territorial Cohesion - 36.68%
 - Cohesion policy - 32.78%
 - Connecting Europe Facility - 3.90%
 - **CSF research and innovation - 7.80%**
 - Others - 3.40%
- **Sustainable Growth: Natural Resources - 37.36%**
 - CAP (direct payments + market expenditure) - 27.50%
 - Rural development - 8.77%
 - Others - 1.09%
- Security and citizenship - 1.81%
- Global Europe - 6.83%
- Administration - 6.11%

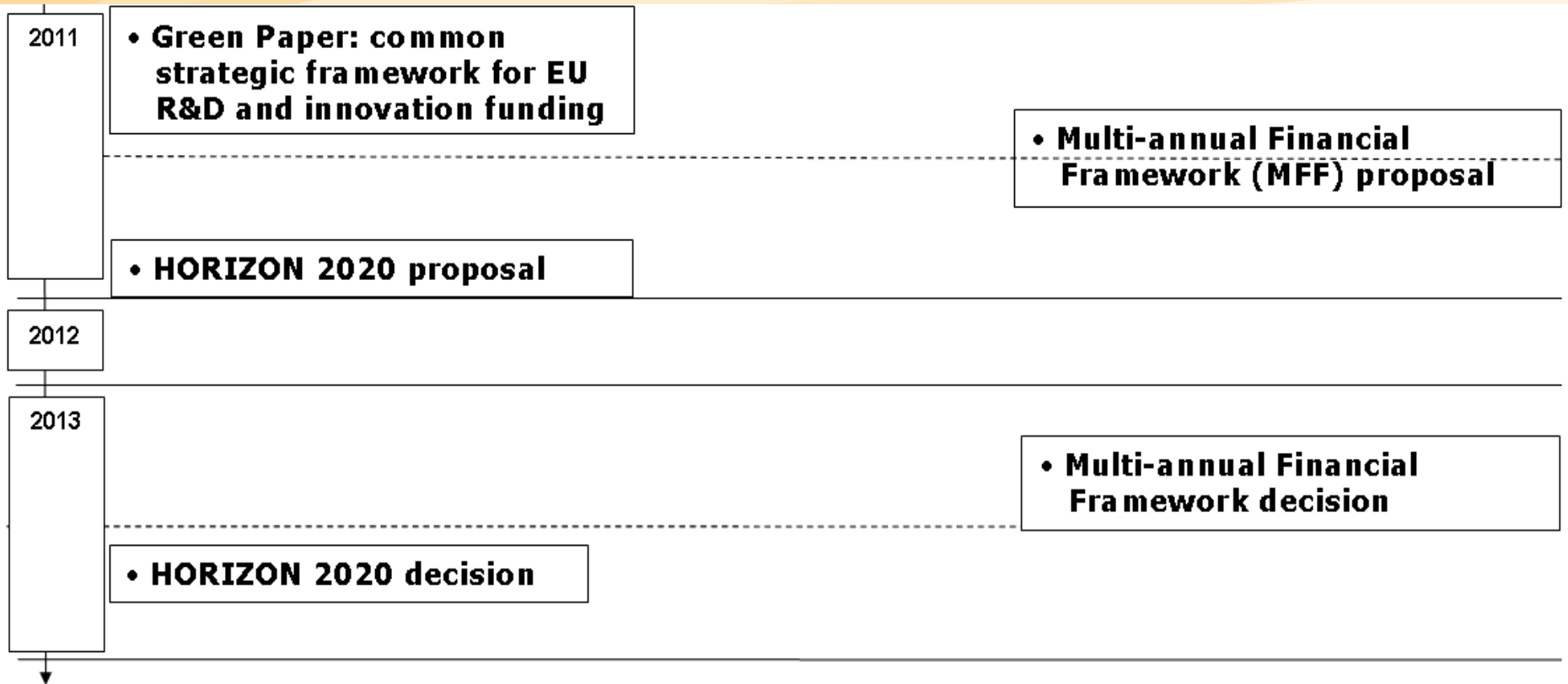
1.025.000.000.000 €
(1.05% of GNI)



Significant re-distribution in key policy areas



CSF - HORIZON 2020



Forthcoming steps

- 30 November 2011 – EC adoption of Horizon 2020 draft legislative proposal
- 5 December – 1st Innovation Convention
- 6 December – Presentation to the Competitiveness Council

CEF – Connecting Europe Facility

Funds cross-border projects in:

- energy,
 - transport and
 - ICT: broadband deployment & digital services
- to strengthen the backbone of EU internal market

Digital Service Infrastructures

- Trans-European high-speed backbone for public administrations
- Cross-border delivery of eGovernment services
- Cross-border eHealth services
- Multilingual access to online services
- Enabling access to digital resources of European heritage
- Access to public sector information



**! high speed
dedicated network
for PAs !**

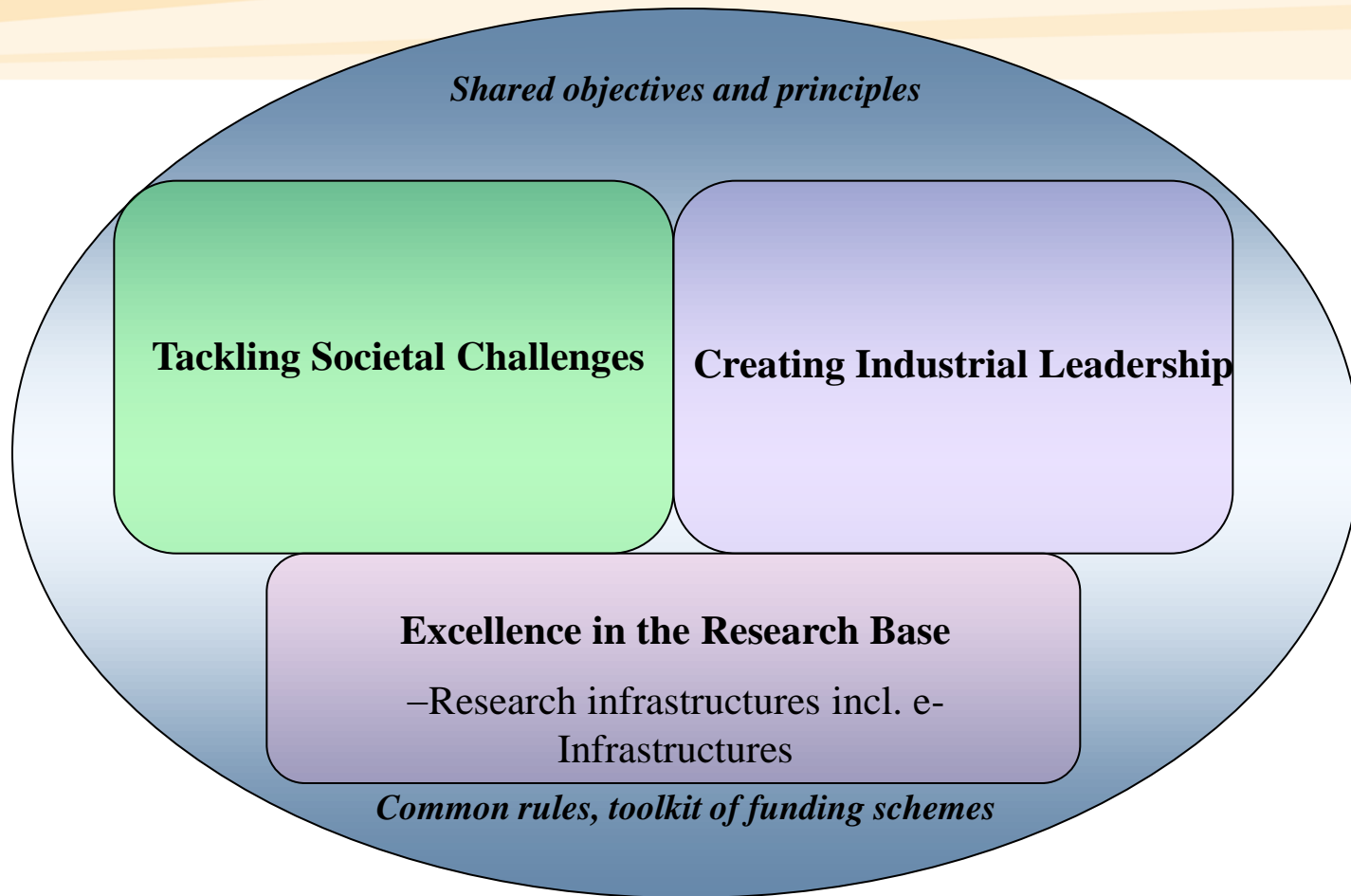
**! interoperable
'cloud computing'
services !**



Outcomes of the Consultation on HORIZON 2020

- Overwhelming support for the HORIZON 2020 concept to bring research and innovation closer together
- Simplification
- EU funding for research and innovation close to societal challenges
- Maintain continuity as regards the most successful elements of the current programmes (ERC, People)
- Funding less prescriptive and more open
- Support all stages in the innovation chain
- Better support SMEs with innovation requirements
- HORIZON 2020 will need both curiosity-driven and agenda driven activities

Common Strategic Framework architecture



Outcomes of the **Workshop on RIs** (4th July 2011)

- RI and e-Infrastructures are indispensable for research
- training and education should be part of new initiatives
- the data infrastructure is still underdeveloped, even if open access, interoperability and long term preservation and curation are well identified
- partnership with industry is a means to foster knowledge and technology transfer (private sector as a supplier and as user)
- mobilisation of SF for the implementation of major infrastructures is needed
- strengthen the role of e-IRG and ESFRI

The CSF (2014-2020)

Possible RI – EU actions

1

Optimize use and development of RIs in Europe

- *Development of European RI for 2020 and beyond (ESFRI and other large RI: preparation, implementation, operation)*
- *Integrating and opening of national RIs of pan-EU interest*
- *Development, deployment, operation of e-infrastructures (single and open European space for online research)*

Improved access to
scientific
information (e.g.
scientific digital libraries)

Consistency &
synergies between
funding sources
(during life cycle)

Consistent
management of RIs in
Europe
(RIs are Knowledge Industries)

New funding
needed

The CSF (2014-2020)

Possible RI – EU actions

Fostering the RI innovation potential & their human capital

- *Strengthening the RI innovation potential*
 - *Strengthen synergies between RIs and their suppliers*
 - *Link better RIs and industrial users*
 - *Promote the integration of RIs in innovation ecosystems*
 - *Use RIs for public services, social innovation, culture and education*
- *Strengthening human capital*
 - *Staff training and exchange*
 - *Education curricula*

**Improved
innovation around
RIs**
(e.g. better links with
industry)

**Improved
awareness about
RIs** (at national and EU
levels)

**Improved impacts
at all levels**
(local, regional, national, EU)

The CSF (2014-2020)

Possible RI – EU actions

3

Reinforcing RI policies and international coop'n

- *Strengthening the EU's RI policy*
 - *Exploiting synergies between EU and MS by setting up partnerships between policy makers / funding bodies*
 - *Supporting synergies with other policies*
 - *Monitoring of RIs in Europe*
 - *Supporting assessment of RIs in Europe*
- *International cooperation (e.g. facilitating interoperability or development of global RIs)*

**Greater coherence in
policy- & decision
making**
at all levels

**Improved mapping
& monitoring**
(at national and EU levels)

**Speaking with one
voice at int'l level**
(e.g. RI "Ambassadors")

*Development
of ESFRI &
other large
scale RIs*

*Integrating
and opening
national RIs*

*Development
& operation of
ICT-based e-
infrastructures*

*Strengthening
the innovation
potential
of RIs*

*The matricial approach of the EU-RI actions will
enable serving all actions under CSF*

*Strengthening
the human
capital
of RIs*

Shared objectives and principles

Tackling Societal Challenges

*Creating Industrial Leadership
& Competitive Frameworks*

*Excellence in the Science Base
Research infrastructures incl. e-Infrastructures*

Common rules, toolkit of funding schemes

Support to policy coordination

International cooperation

Connecting
the finest
minds

... Linking ideas at
the speed of light

Sharing the
best scientific
resources

... Harnessing
the unlimited power
of computers,
instruments and data

Building virtual
global research
communities

... Innovating the
scientific process



e-infrastructure



géant | grids | scientific data | supercomputing



European Commission
Information Society and Media