

EU funding for Research Infrastructures

- **History**
- **Initiatives/Stakeholders**
- **HORIZON 2020**
Perspectives/Challenges

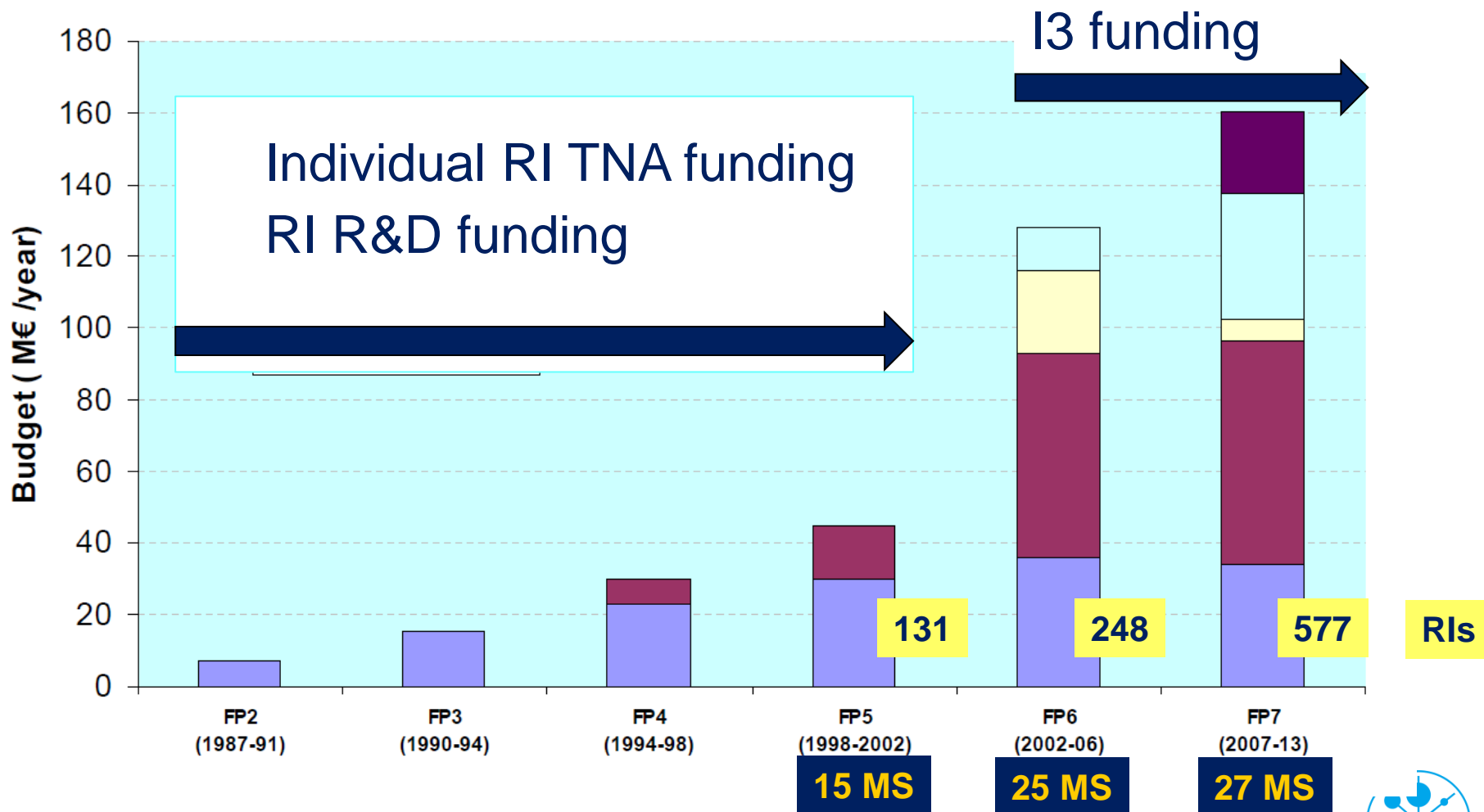


Dr. Ute Krell
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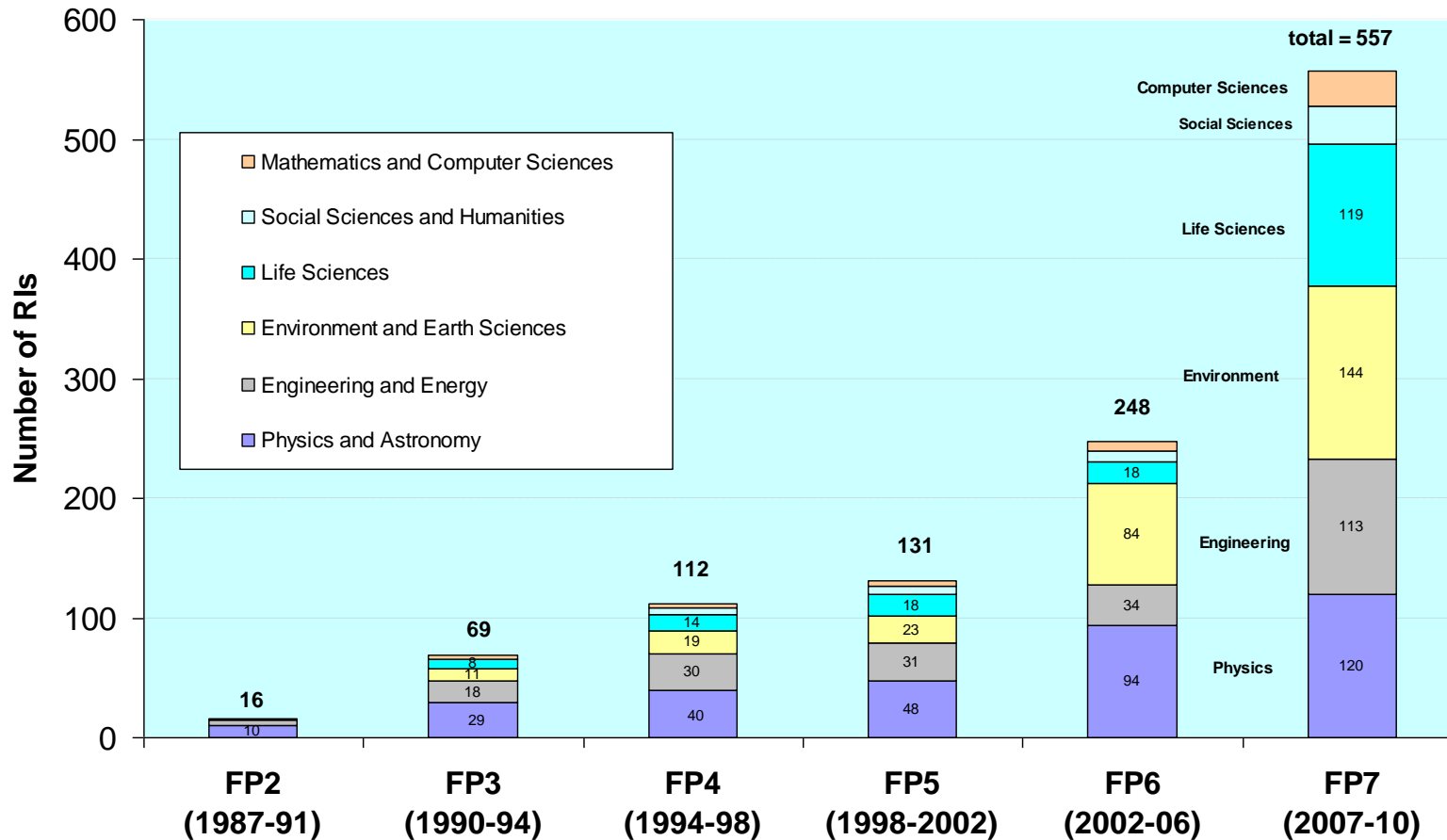
History



Evolution of budget from FP2 to FP7



Number of RIs receiving Transnational Access funding



Synchrotron EU Funding

TNA only

> FP3	all: ?	DESY: 2,329 M€
> FP4	all: ?	DESY: 1,200 M€
> FP5	all: ?	DESY: 1,635 M€
> FP6	all: 27 M€	DESY: 1,881 M€
> FP7*	all: 10 M€	DESY: 1,091 M€
	all: 7,5 M€	DESY: 0,685 M€
	all: 9,0 M€	DESY: 0,081 M€

Pandata/PandataOdi

since 2010:



* 7 years and not 5 years



Round Table

IA-SFS

ELISA

CALIPSO

Biostruct-x



Trends when moving from FP2 => FP7

- > Awareness of large RIs as a back bone of the ERA (European Research Area)
=> physical single sited RIs are not the only ones
- > New large European RIs are more in the political focus than existing national RIs
- > EC-Funding:
operation & travel to individual RIs => networking & travel
networks of facilities => networks of science



Initiatives/Stakeholders



European Stakeholders for RIs

> EU

ITER EU Parliamentary Committee (Industry, Research & Energy)

DG-Research B.4

DG-Connect C.1

> Member States

ESFRI

E-IRG

RI Programm Committee

> Lobby

EIROFORUM, ERF, RDA, Science Europe-RI WG, CERN, EMBL...



Important Events & Databases

RI Events

- > ECRI Conferences => ICRI Conferences ~every 1,5 years

EC, ESFRI (European Strategy Forum on RIs)

- > WIRE Week of Innovative Regions ~2 years

Commissioner, ESFRI

=> important for European strategy on RI

=> going international/global (ICRI 2016 in South Africa)

- > Databases

MERIL Database

EC mapping of RIs with TNA funding

=> important for ESFRI landscape analyses



European Synchrotron User Organisation



- > Foundation 2010
- > ESUO SR-Directors Meeting 21. May 2013
=> agreement to focus on travel support of TNA users
- > ESUO Brochure 2014

- > EU

 - DG-Connect



- > Member States

 - E-IRG like ESFRI, organizes regular conferences*

- > *International*

 - RDA (Research Data Alliance) since beginning 2013
to harmonize and find solution on handling Big Data*

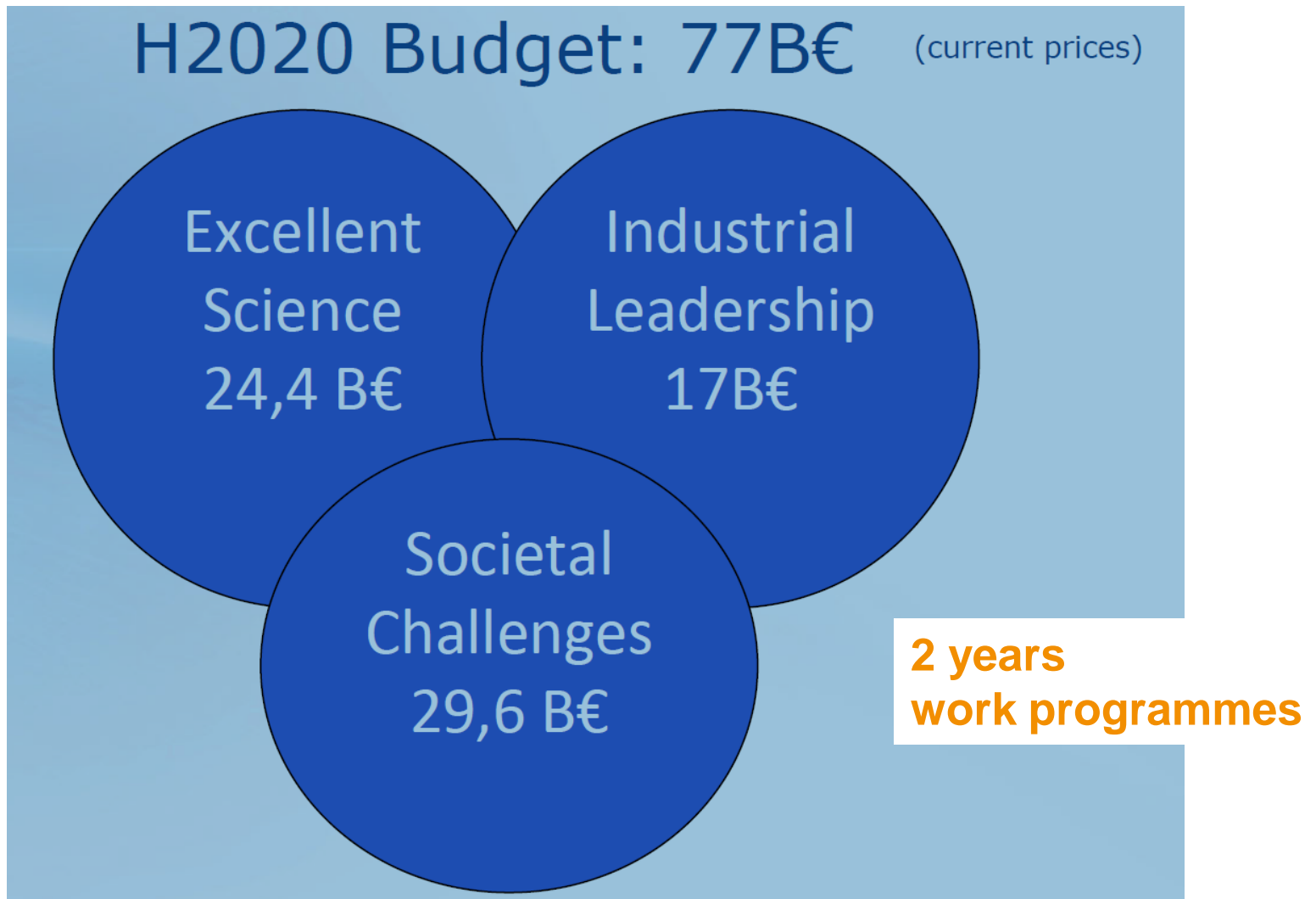


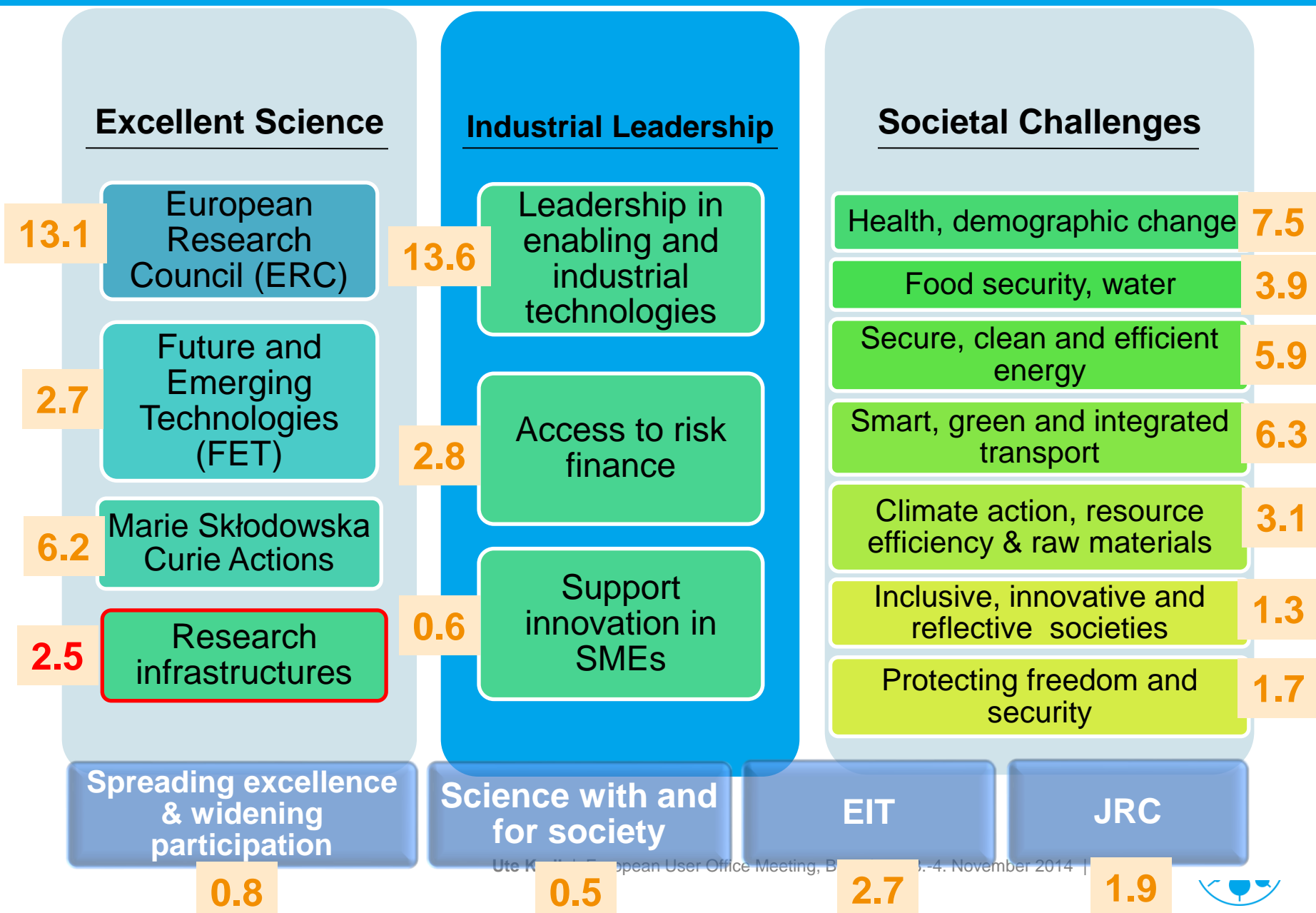
HORIZON 2020

Perspectives/Challenges



HORIZON 2020: three priorities







Call 1 Developing new world-class research infrastructures

9 Cluster proposals: EUCALL, PanDAAS

2014: 70 M€
2015: 129 M€

Call 2 Integrating and opening research infrastructures of pan-European interest

60 proposals: iNEXT, NFFA,..??

2014: 90 M€
2015: 50 M€

Call 3 e-Infrastructures

2014: 95 M€
2015: 82 M€

Call 4 Support to Innovation, Human resources, Policy and International cooperation

2014: 22 M€
2015: 16.5 M€

Deadlines: 2 Sep 2014 or 14 Jan 2015



New Commissioner (Carlos Moedas) => New Wind

"Improving research infrastructure and making better use of research results is essential to strengthen innovation further, develop new activities and boost the productivity and competitiveness of our economy"

⇒ Strategic orientations for the RI WP 2016-2017

- Fostering long term sustainability of Research Infrastructures
- Expanding the role of research infrastructures in the innovation chain
- Optimising the management and the exploitation of research data produced or collected by research infrastructures, included e-infrastructures
- Harmonising evaluation procedures of Research Infrastructures

P. Froissard, EC Commission ELRI Trieste 24. Sep 2014 <http://www.elettra.eu/ELRI2014/>



Challenges

- > Calipso is running until May 2015
- > Commission sees SRs as a strong community but there is little lobbying
- > Commission does not want to fund over decades the same
- > I3-funding of RIs tends to move towards I3s on certain scientific fields
- > SR access provided in several I3s under different regulations
- > How can SRs support the new strategic orientation ?



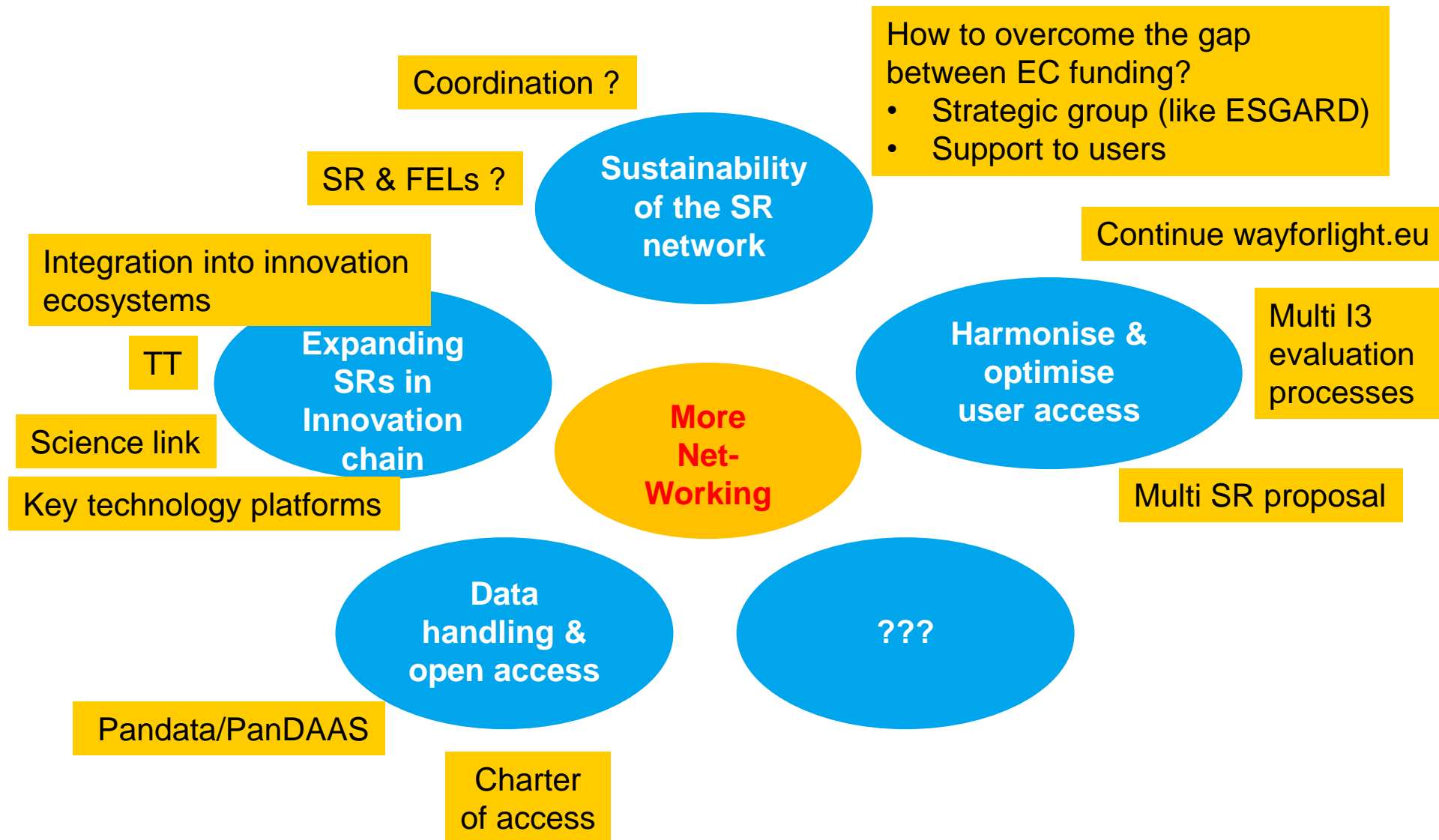
- > Consultation with stakeholders (2014)
- > Discussion with Programme Committee (2014-2015)
- > Draft Work Programme (first half 2015)
- > Adoption of the WP (third quarter 2015)
- > Publication of the calls (2016)

- ➔ **ESUO initiative to inform Programme Committee members**
(MS without SR!)

- ➔ **Roundtable Multidisciplinary RIs & Commission and Reception**
Commission: R.J. Smits, P. Dröll, A.A. Antelo, P Froissard
Jan/Feb 2015

- ➔ ??

How could the next SR I3 look like? Brainstorming



**Thank you
for
your attention**



Links

- > http://ec.europa.eu/research/infrastructures/index_en.cfm?pg=home
- > http://ec.europa.eu/research/infrastructures/index_en.cfm?pg=esfri
- > <http://www.erf-aisbl.eu/>
- > <http://www.scienceeurope.org/policy/working-groups/Research-Infrastructures>
- > <https://rd-alliance.org/>
- > <https://portal.meril.eu/converis-esf/publicweb/startpage?lang=1>
- > <http://www.elettra.eu/ELRI2014/>
- > <http://ec.europa.eu/transparency/regexpert/index.cfm?do=groupDetail.roupDetail&groupID=2940>



Fostering long term sustainability of Research Infrastructures - II

H2020 support:

- to facilitate and support the preparation, implementation, long-term sustainability and efficient operation of the research infrastructures identified by ESFRI and of other world-class research infrastructures such as ERICs.
- to support to the coordination, integration of and trans-national access to the existing national RIs with a long lasting effect in term of harmonisation, structuring and optimisation of the services to users, essential to foster users' and stakeholders' trust in the services and to ensure a long term sustainability.

on RI as well as on MS level

Expanding the role of research infrastructures in the innovation chain - I

Challenge: to stimulate innovation both in the RIs themselves and in their supplier and user industries

- R&D partnerships with industries to develop EU capacities in high-tech areas such as scientific instrumentation including detection and imaging technology
- stimulate the use of RIs by industry
- Encourage the integration of RIs into local, regional and global innovation ecosystems

Next steps

- ESFRI roadmap update (2014-2016)
- Conclusions on ERIC report + ERA (Dec 2014)
- Work Programme 2015 (Prioritised ESFRI projects, Innovation)
- Preparation Work Programme 2016-2017:
 - Consultation with stakeholders (2014)
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P. Froissard, EC Commission ELRI Trieste 24. Sep 2014 <http://www.elettra.eu/ELRI2014/>