

# ILC Opportunities in FP7

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SCRF Meeting

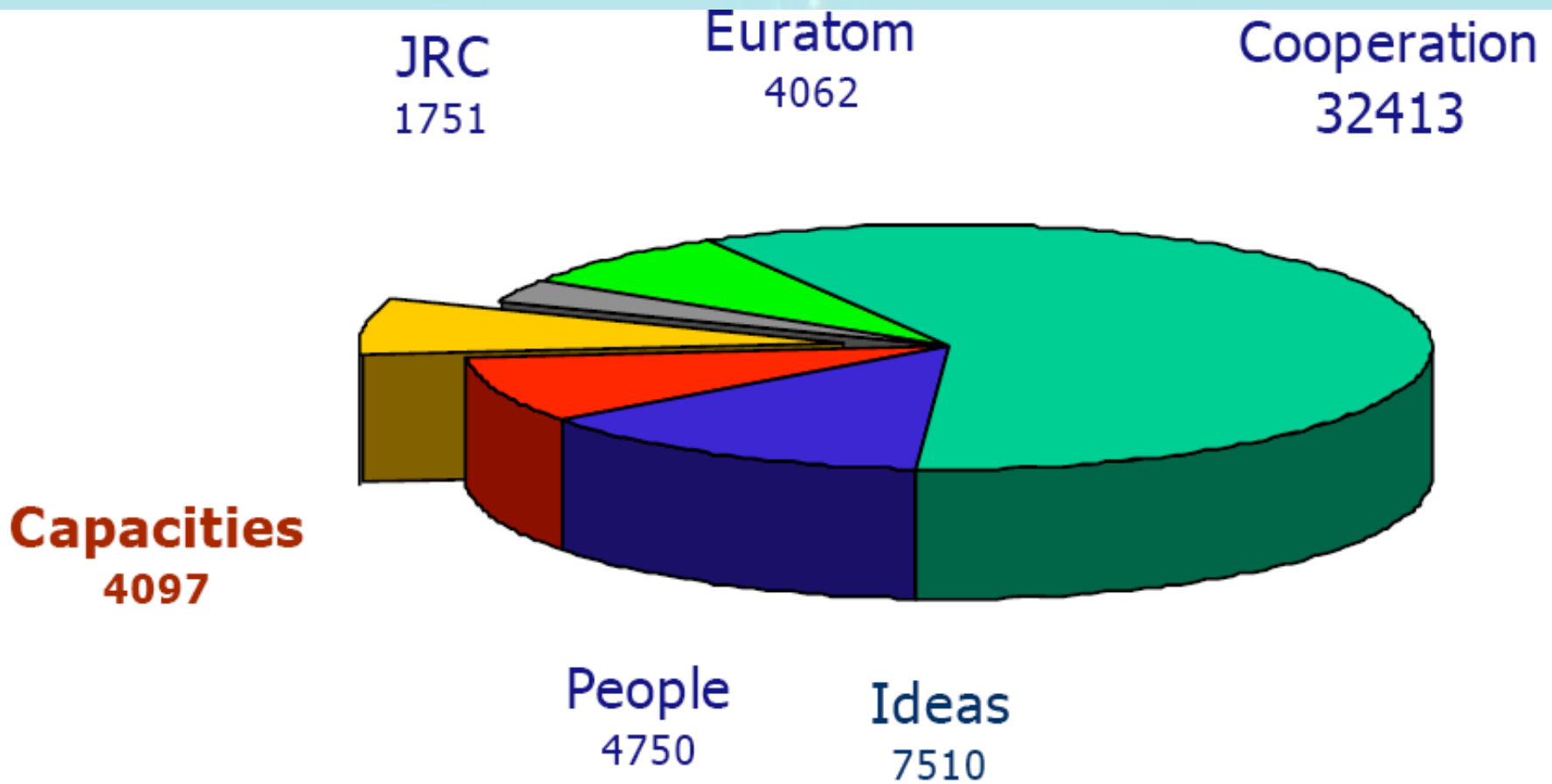
DESY

20. November 2006

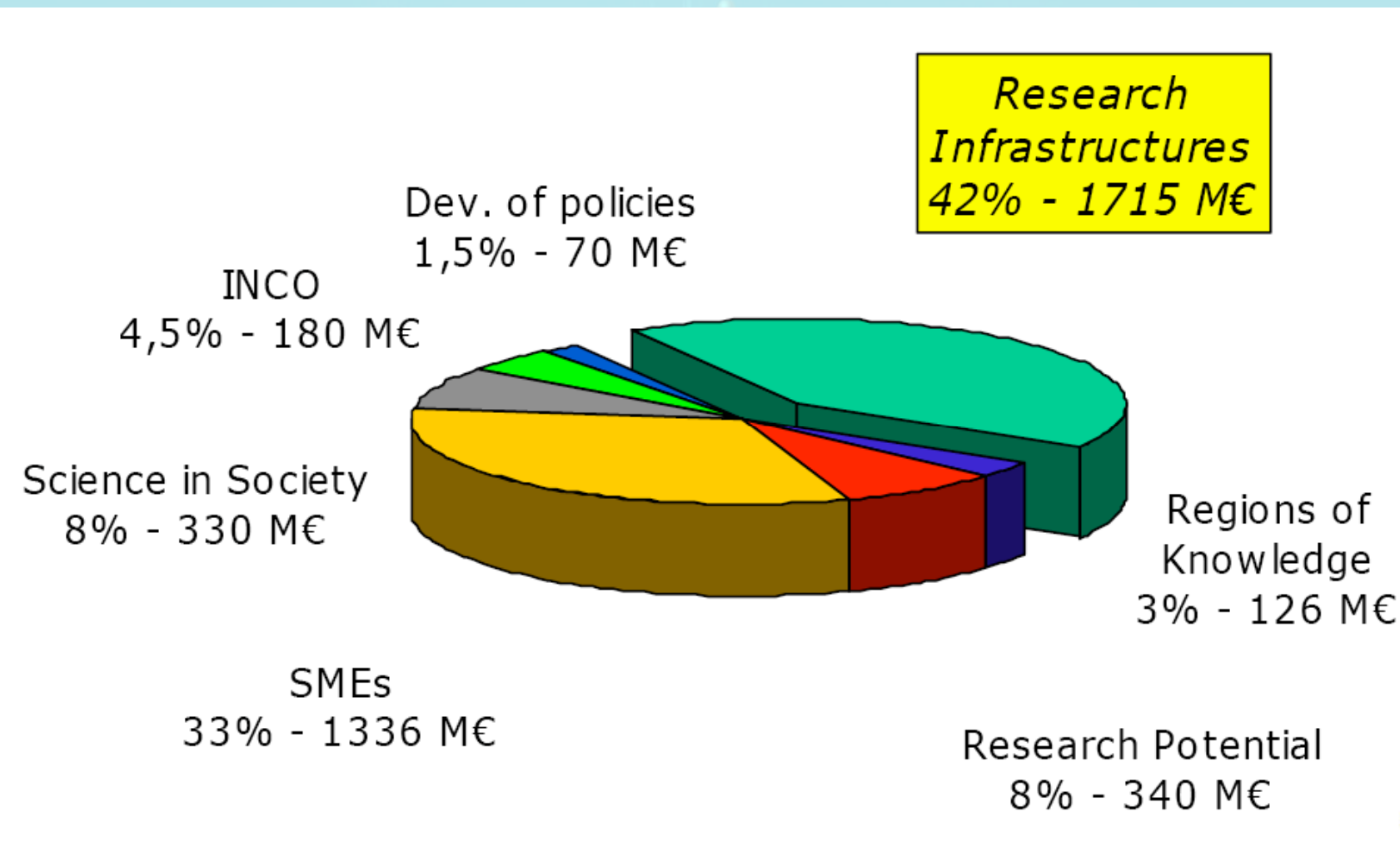
- The content of this talk is based on the information which was given to us at an information event about Research Infrastructures in the 7th Framework Programme which was held on October 12th in Brussels
- The budget numbers are not finally fixed
- The structure of the work programme for the start of FP7 has been agreed upon and will not undergo major changes

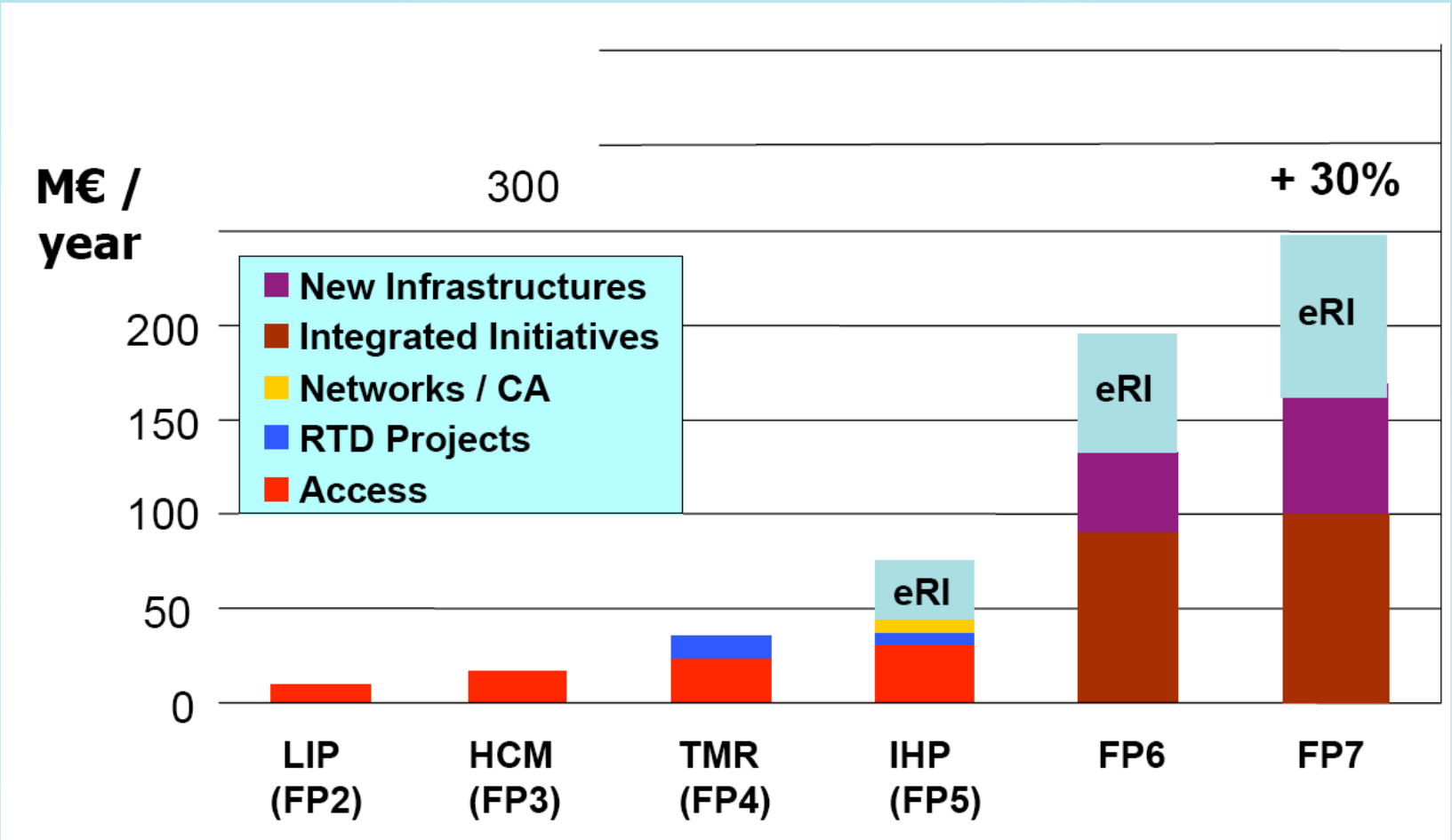
e- e+

- 7th Framework Programme
  - Duration 2007-2013: 7 years
  - Total EC budget: 50521 M€ + 2700 M€ (Euratom)
  - Four programmes
    - **Cooperation**
      - core of EU research funding
      - strictly to thematic priorities: e.g. health, energy, transport, etc.
    - **Ideas**
      - European Research Council
        - starting independent research grants
        - advanced investigator research grants
    - **People**
      - Marie Curie actions
    - **Capacities**
      - e.g. Research Infrastructures
  - EU does not support basic research outside thematic priorities or the ERC → **member states task**



Revised FP7 budget, agreed by Council and Parliament in October 2006





Just slight increase in RI budget compared to FP6 (excluding electronic RI)

# Strategic Elements in FP7 RI

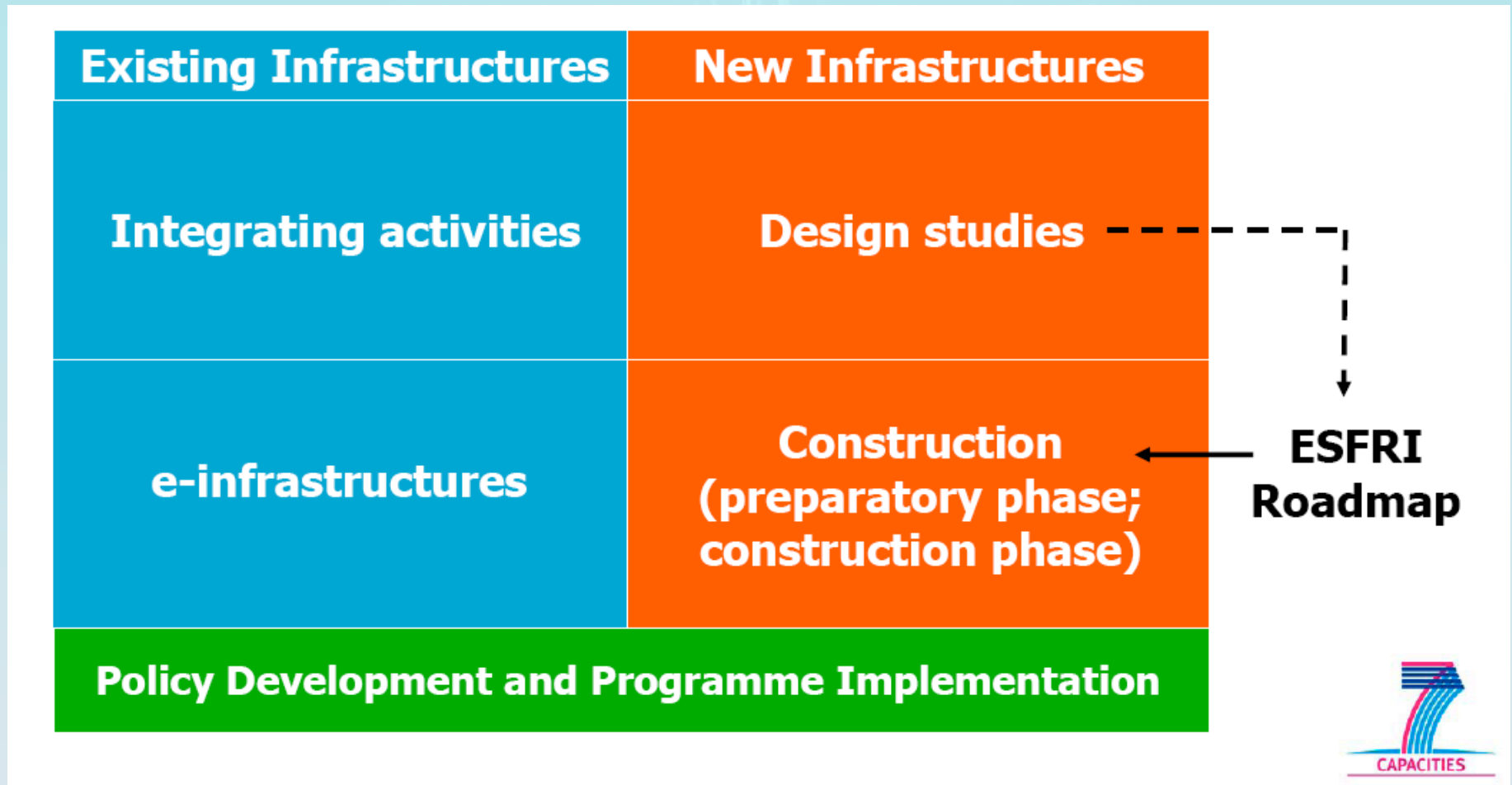
- Support to existing infrastructures
  - **Integrating Activities** (formerly known as I3s)
- Electronic Infrastructures
  - Grid, GEANT
- Support for new infrastructures
  - **Design Studies**
  - **Construction of new infrastructures**
- Policy development
  - ERA-NET
  - Studies, conferences for policy development
- New in FP7: targeted calls
  - for parts of Integrating Activities → needs for thematic priorities
  - **Construction of new infrastructures** → **ESFRI** roadmap

- European Strategy Forum for Research Infrastructures
- Representatives from the 25 Member States and 7 Associated States plus one representative of the European Commission
- Role:
  - foster an 'open method of coordination' between different countries
  - discuss long term vision at European level, develop European Research Infrastructure policy
  - bring projects to a point where decisions by ministers are possible
- Roadmap:
  - mandate from the Council of Ministers, November 2004
  - 1000 high-level experts involved
  - From about 200 proposals, 35 projects have been identified through several review stages



- Published on 28 October 2006
- Projects from:
  - Social Science and Humanities (6 projects)
  - Environmental Sciences (7)
  - Energy (3)
  - Biomedical and Life Sciences (6)
  - Material Sciences (7)
  - Astronomy, Astrophysics, Nuclear Physics (5)
  - Computer Data Treatment, Space, Particle Physics
    - e-Infrastructure Reflection Group
    - ESA Cosmic Vision
    - Projects on the **CERN Council Strategy List for Particle Physics**:
      - LHC
      - **ILC**
      - Advanced accelerator R&D





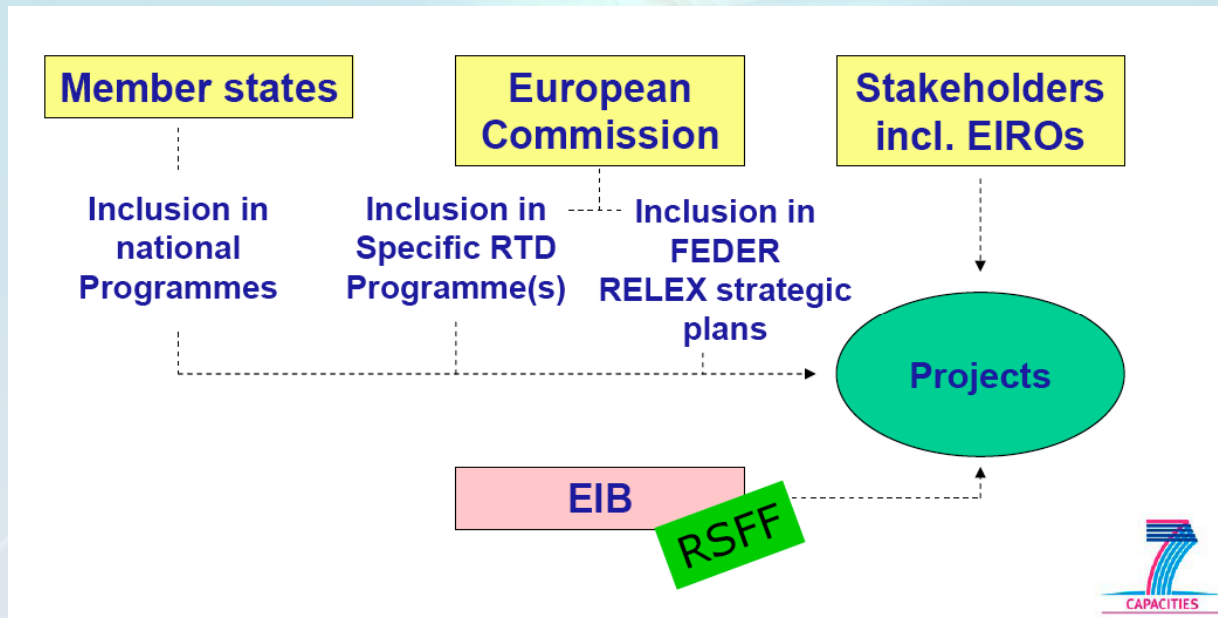
- Very similar to the FP6 Integrating Infrastructure Initiatives (I3)
  - e.g. CARE, EUDET
  - support for existing infrastructures
- Has to include
  - Networking activities
  - Transnational access and/or service activities
  - Joint research activities (JRAs)
- Bottom-up calls
  - open to all fields of science and technology
- Targeted calls
  - support to the specific needs of the thematic priority areas
  - list of dedicated topics per each call
    - e.g. access to hadron therapy facilities, development of new vaccines, etc.
- **EC contribution: ~10 M€/IA**

- Very similar to FP6 Design Studies
  - e.g. **EUROTeV, EUROFEL**
- Aiming at the conceptual design for new infrastructures with clear European dimension and interest
  - conceptual design, not detailed engineering design!
- Includes design studies for e-Infrastructures
- Bottom-up calls only
- Help ,emerging‘ projects to get on the ESFRI Roadmap
- **Projects on the ESFRI Roadmap are not eligible to apply!**
- **EC Contribution: <5M€, i.e. less than in FP6**

- Provide catalytic and leveraging support, bringing the project to the level of technical, legal and financial maturity required to set up viable partnerships
- Preparatory phase tasks:
  - Strategy development
  - **Technical work (e.g. final prototypes)**
  - Governance and logistical work
  - Financial arrangements
  - Legal issues
- Consortia should include
  - funding authorities
  - research and development agencies
  - operators of research facilities, research centres, universities, industry
- **Only projects on the ESFRI roadmap are eligible**
- **EC support: ~5M€**

# New Infrastructures - Implementation Phase

- Very limited direct EC financial support
- Commission may act as ,facilitator‘
- Basically just help to explore new clever ideas of ,financial engineering‘
  - RSFF: Risk Sharing Finance Facility
  - Commission pays money to the European Investment Bank to secure loans for the construction of new infrastructure



<b>Total operational budget 1630 M€</b>	<b>Call 1 2007</b>	<b>Call 2 2008</b>	<b>Call 3 2010</b>	<b>Call 4 2012</b>
<b>Integrating activities</b>		<b>275</b>	<b>x</b>	<b>x</b>
<b>e-Infrastructures</b>	<b>89</b>	<b>115</b>	<b>x</b>	<b>x</b>
<b>Design studies</b>	<b>35</b>		<b>x</b>	
<b>Construction – Support to the Preparatory Phase</b>	<b>135</b>		<b>x</b>	
<b>Construction – Support to the Implementation Phase</b>	<b>RSFF (200 M€) + 100 M€</b>			
<b>Policy Development and Programme Implementation</b>	<b>25</b>	<b>5</b>	<b>x</b>	<b>x</b>
<b>Total per call (M€)</b>	<b>284</b>	<b>395</b>		

- Date of publication: early 2007
- Closure: spring 2007
- Topics called:
  - Support for existing e-Infrastructures: 89 M€
  - Design Studies: 27 M€ + 8 M€ (e-Infrastructures), ~7 projects funded
  - Construction of new infrastructures - preparatory phase
    - 120 M€
    - 15 M€ (e-Infrastructures)
  - Accompanying measures
    - Policy development etc.: 25 M€
- Plus some money to the EIB for RSFF



- Spring 2008:
  - **Integrating Activities: 283 M€**
    - about 30% for targeted calls on thematic priorities!
  - e-Infrastructures: 115 M€
  - Accompanying measures: 5 M€
- Spring 2010:
  - Integrating Activities
  - e-Infrastructures
  - Design Studies
  - Construction of New Infrastructure
  - Accompanying measures
- Spring 2012
  - Integrating Activities
  - e-Infrastructures
  - Accompanying measures



# Conclusion

- Budget for Research Infrastructures per year similar to FP6
- About 30% of this budget is reserved for targeted calls
- **ILC is on the ESFRI roadmap:**
  - Eligible to the ,construction of new infrastructure‘ call
  - Not eligible to Design Studies!
  - We can always try for an Integrating Activity in a bottom-up call

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