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FP7 Research Infrastructures Call for proposals

FP7-INFRASTRUCTURES-2011-1

European Commission, **DG Research**, Unit B.3
FP7 Capacities





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Overall information





Definition of Research Infrastructures

- **Facilities, resources, and related services** used by the scientific community for conducting top-level research in their respective fields
- **They include**
 - ➔ **Major scientific equipment** or set of instruments
 - ➔ **Scientific collections**, archives and **structured information**
 - ➔ Enabling ICT-based **“e-Infrastructures”**
 - ➔ Any other entity of a unique nature, used for research
- **“Single-sited”** or **“distributed”**





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Objectives of the Community Research Infrastructures action

- To optimise the use and development of the best **research infrastructures existing** in Europe
- To help creating in all fields of S & T **new research infrastructures** of pan-European interest needed by the European scientific community
- To support programme implementation and **policy development** (e.g. international cooperation)

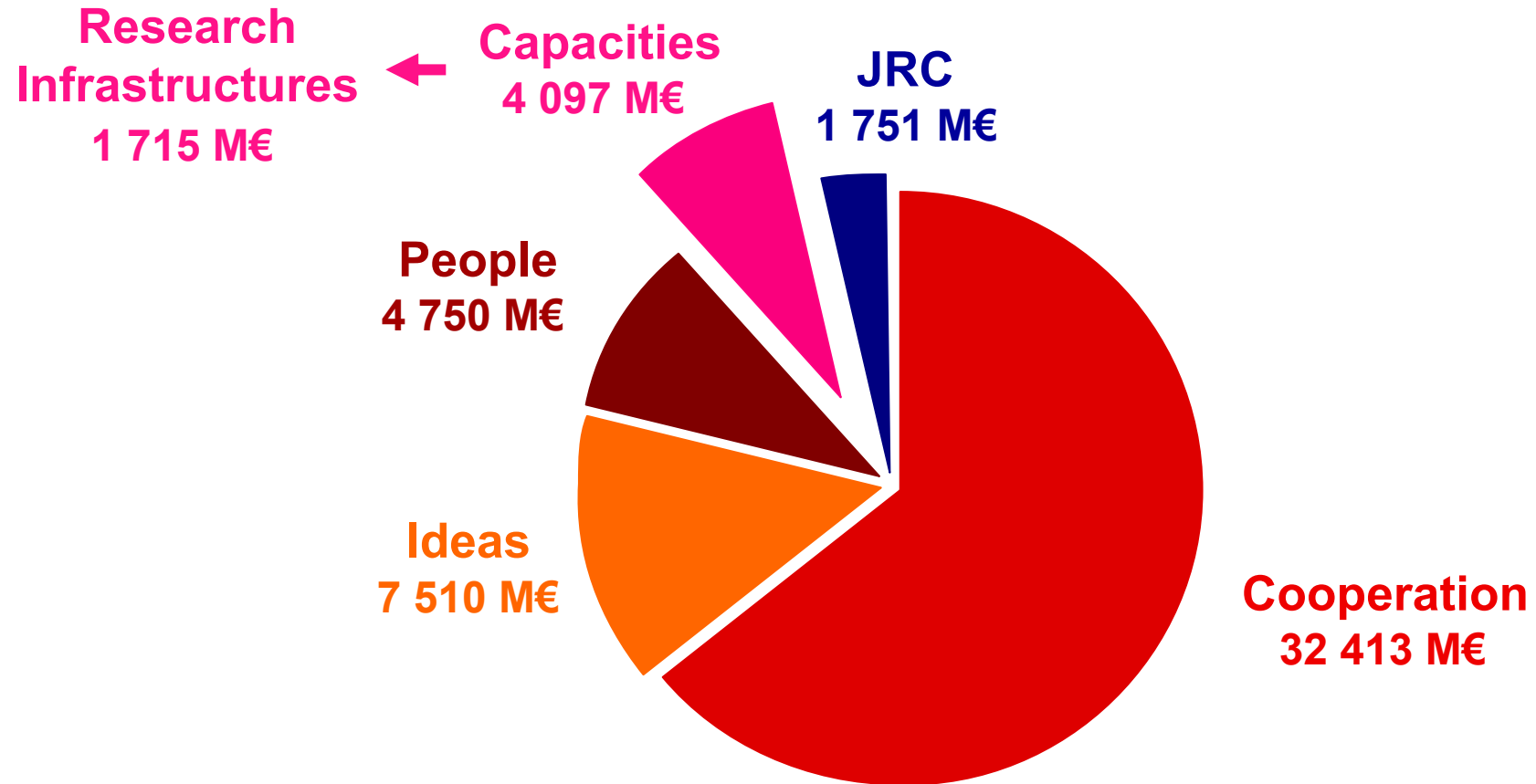




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FP7 budget



FP7 budget (50 521 M€)

29/06/2010

FP7-INFRASTRUCTURES-2011-1

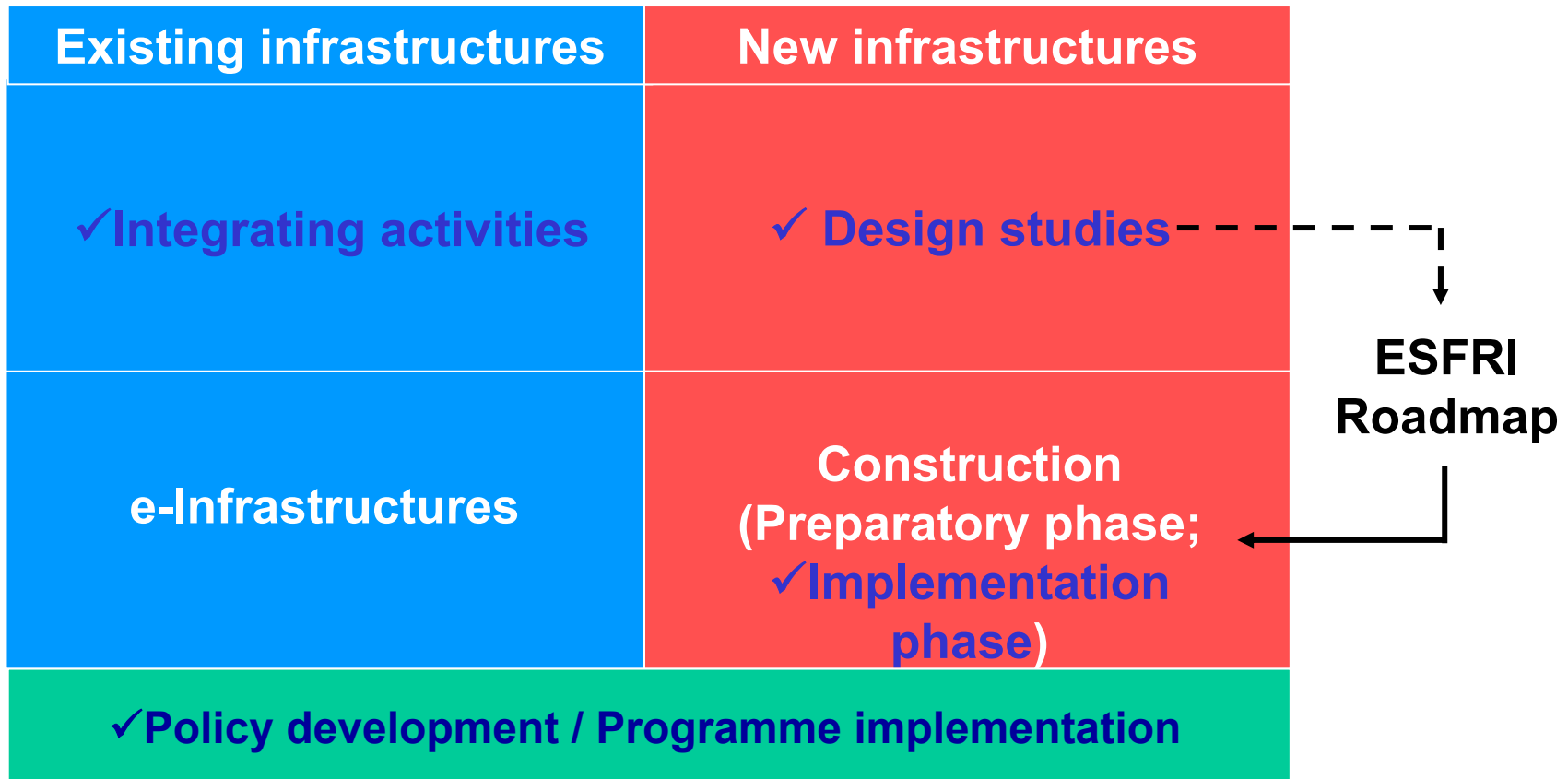




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FP7 Research Infrastructures action



(✓ call FP7-INFRASTRUCTURES-2011-1)

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Call budget

FP7-INFRASTRUCTURES-2011-1

Indicative total budget: **EUR 163.45 million (M€)**

1.1 Support to existing research infrastructures	
1.1.1 Integrating activities	~ 103.95 M€
1.2 Support to new research infrastructures	
1.2.1 Design Studies	~ 20 M€
1.2.2 Construction of new infrastructures (or major upgrades) – Implementation phase	~ 30 M€
1.3 Support to policy development and programme implementation	~ 9.5 M€



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Indicative timetable

→ Date of publication	20 July 2010
→ Deadline	25 November 2010 17:00 (Brussels time)
→ Evaluation	Dec. 2010 – Feb. 2011
→ Evaluation results	March 2011
→ Launch of negotiation	May 2011
→ Signature grant agreements	from autumn 2011

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Integrating activities





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Integrating activities

Objectives and activities

- **Objectives:** bring together and integrate, on a European scale, key research infrastructures (RIs) **in a given class**, in order to promote their **coordinated use** and **development**.
- **Activities:**
 - (1) **Networking** activities,
 - (2) Transnational **access** and/or **service** activities and
 - (3) **Joint research** activities

Funding scheme: CP-CSA (combination of ‘collaborative project’ & ‘coordination and support actions’)





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Integrating activities

(1) Networking activities

- Objectives: to foster a culture of **cooperation** between the RI's and scientific communities and help developing a more efficient and attractive **ERA**
- Activities (examples):
 - ➔ Joint management of **access** provision...
 - ➔ Definition and development of common **standards**, protocols, **databases**...
 - ➔ Spreading of **good practices**, training to **new users**...
 - ➔ **Coordination** with national or international initiatives...
 - ➔ Promotion of **long-term sustainability**, involvement of funders, business plan...





Integrating activities

(2) Transnational access and/or service activities

- Objectives: to support scientific communities in their **access** to the participating RIs
- Transnational access activities
 - To provide access 'free of charge'
 - 'Hands-on' access or **remote** access (sample analysis...)
- Service activities
 - To support access to **scientific services** freely available through communication networks e.g. databases available on the web
 - Only services **widely used** by the community of European researchers will be supported

Support limited to 20% of the operating costs



Integrating activities

(3) Joint research activities

- Objectives: to **improve** (in quality and/or quantity) the **services** provided by the RIs
 - ➔ Explore new fundamental technologies or approaches underpinning the **efficient** and **joint use** of the participating RI
- Activities could address:
 - ➔ **Methodologies**, protocols, **instrumentation, software...**
 - ➔ Integration of infrastructures into **virtual facilities...**
 - ➔ Innovative solutions for **data** collection, management, curation and annotation...
 - ➔ Impacts on social, environmental and economic levels...





Integrating activities

Eligibility and requirements

- **Eligibility conditions**

- **General** criteria: deadline, completeness, relevance to topics...
 - **Min. 3 independent legal entities** from **3 different MS** or AC
 - **Max. requested EC funding: 10 M€**
(warning: € 10.000.000,01 → proposal **NOT eligible!**)
 - **NB: Max. requested EC funding: 15 M€ for**
INFRA-2011-1.1.17 and INFRA-2011-1.1.18
 - **All 3 types of activities are mandatory:** (1) networking, (2) transnational access and/or service, (3) joint research activities
- **Expected duration 4 years**
 - **One proposal expected per topic**, corresponding in general to a **given class of RI**



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Integrating activities

Targeted approach

- This call addresses **23 defined topics**, focusing on strategic priorities
- With topics for the potential **follow-up** of projects and with topics for the opening to **new communities**
- More topics than can be funded to ensure **competition** (around 20 projects expected to be selected)

Topic codes: INFRA-2010-1.1.1, ... INFRA-2010-1.1.23





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Integrating activities

List of topics (1)

- **Social sciences and humanities**

- 1. Language Resources and Tools for cross-disciplinary research in social sciences and humanities.**
- 2. European Data Infrastructure for multidisciplinary research in the socio-economic behaviour of individuals and households, related to sustainability policy, climate change policy and environmental risk.**
- 3. Integrating Digital Archives and Resources for Research on Medieval and Modern European History.**
- 4. Integrating Archives for research on Contemporary European Social History.**

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List of topics (2)

● Life Sciences

5. **Facilities and resources for multinational clinical trials.**
6. **Facilities and resources for protein structure determination at synchrotron radiation sources**
7. **Life sciences bio-molecular data resources and services.**
8. **Facilities and resources for plant phenotyping.**
9. **Facilities and services for livestock physiology and phenomics.**

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List of topics (3)

● Environmental Sciences

- 10. Research Infrastructures for Carbon Cycle Observations.**
- 11. Integrated non-CO2 greenhouse gas Observing Systems.**
- 12. Integrated observatories and centres for marine and fresh-water biodiversity and for long-term ecosystems research.**
- 13. Research infrastructures for forestry research.**
- 14. Multidisciplinary Marine Data Centres.**

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Integrating activities

List of topics (4)

● Energy

- 15. Research Infrastructures for thermo-chemical biomass conversion.**
- 16. Research Infrastructures for Hydrogen & Fuel Cells facilities.**

Materials and Analytical facilities

- 17. Infrastructures for Neutron Scattering and Muon Spectroscopy.**
- 18. Synchrotron radiation sources and Free Electron Lasers.**
- 19. Laser sources**





Integrating activities

List of topics (5)

● Physics and Astronomy,

- 20. Research Infrastructures for hadron physics: Studying the properties of nuclear matter at extreme conditions.**
- 21. Research Infrastructures for advanced radio astronomy.**
- 22. Research Infrastructures for optical/IR astronomy.**
- 23. Research Infrastructures for astroparticle physics: High energy cosmic rays, multi-messenger approach.**





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Design Studies





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Design Studies

Objectives and activities

- Objectives: to contribute to **conceptual** design studies for new research infrastructures , that demonstrates a clear European dimension and interest.
- Major upgrades of existing infrastructures may also be considered, when the end result is the development of a new type or form of research infrastructure with a clear value at European level
- Open for all fields of S&T

*Funding scheme: **CP** (‘collaborative project’) or **CSA-CA** (‘coordination and support actions – coordinating actions’)*





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Implementation phase





Construction - Implementation phase Objectives and activities

- To support the implementation phase of the **ESFRI projects** through a **targeted approach to clusters of ESFRI projects** in the **same field**
 - To exploit synergies, to optimise technological implementation, and to ensure a larger harmonisation and interoperability between the ESFRI infrastructures
 - To implement common solutions to respond to common needs
- **Funding scheme: CP-CSA (combination of ‘collaborative project’ & ‘coordination and support actions’)**





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Implementation phase

Eligibility and requirements

- **Eligibility conditions**

- **General** criteria: deadline, completeness, relevance to topics...
- **Min. 3 independent legal entities** from **3 different MS** or **AC**
- **Max. requested EC funding: 15 M€**

- **Further requirements**

- **Maximum 4 years**





Implementation phase

List of topics

INFRA-2011-2.3.1: Implementation of common solutions for a cluster of ESFRI infrastructures in the field of "Social Sciences and Humanities".

INFRA-2011-2.3.2: Implementation of common solutions for a cluster of ESFRI infrastructures in the field of "Life sciences".

INFRA-2011-2.3.3: Implementation of common solutions for a cluster of ESFRI infrastructures in the field of "Environmental Sciences".

INFRA-2011-2.3.4: Implementation of common solutions for a cluster of ESFRI infrastructures in the field of "Physics, Astronomy and Analytical Facilities".



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Support to policy

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Studies, conferences and coordination actions





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Support to policy development and programme implementation

Objectives and topics

- **Objectives:** to enhance the effectiveness and **coherence of national** and Community research policies, **international cooperation** and the analysis of **emerging needs** in the field of RIs

INFRA-2011-3.1: ERA-NET supporting cooperation for RIs in all S&T fields

INFRA-2011-3.2: Coordination actions, conferences and studies supporting policy development, including international cooperation, for RIs, in all S&T fields

INFRA-2011-3.3: Study for the development of a possible future EU action on scientific instrumentation



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Objectives and activities

- **Objectives:** to develop and strengthen the cooperation and coordination of **national programmes** and **policy actions** for RIs
- **Activities could** also focus on issues such as the regional dimension of RIs or exchange of best practices for evaluation of RIs at national and pan European level

*Funding scheme: **CSA-CA** ('coordination and support actions – coordination action')*





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Eligibility and requirements

- **Eligibility conditions**

- **General** criteria: deadline, completeness, relevance to topic
- **Eligible partners** are only programme owners, typically national/regional ministries/governments responsible for defining, financing or managing programmes and policy actions for RI, such as research councils or funding agencies
- **Minimum 3 eligible partners** established in **a different MS** or **AC**.

- **Typically 2 to 3 years**

- **EC contribution normally from 1 to 2 M€**





Coordination actions, conferences and studies ... Objectives and activities

- To support i) policy oriented groups such as **ESFRI** or **EIROForum**, ii) actions contributing to **new policy development** (Europe 2020 strategy/ Innovation Union), iii) the **specific needs of the global ESFRI projects** that require more efforts.
- International cooperation activities related to RI project or policies could also be supported.
- **Activities:** studies, conferences or coordination actions

*Funding scheme: **CSA-SA** or **CSA-CA***

*(‘coordination and support actions – support action’ or
‘coordination and support actions – coordination action’)*



Coordination actions, conferences and studies ...

Eligibility and requirements

- **Eligibility conditions**

- **General** criteria: deadline, completeness, relevance to topics
- For CSA-CA: **min. 3 independent legal entities** from **3 different MS** or AC
- For CSA-SA: **min. 1** independent legal entity

- **Duration typically 2 to 3 years** for topic 3.2 and **1 year** for topic 3.3

- **EC contribution normally from 0,5 to 1 M€** for topic 3.2 and **0.5 M€** for topic 3.3





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Studies for the development of ... Objectives and activities

- The project to be supported under this topic should aim at studying the feasibility and maturity of a possible EU action to strengthen the European industrial capacity in developing and exploiting the potential of scientific instrumentation used in research infrastructures
- **Activities:** studies, conferences or coordination actions

Funding scheme: CSA-SA or CSA-CA

*(‘coordination and support actions – support action’ or
‘coordination and support actions – coordination action’)*





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For more information





Essential documents

- **Work Programme (FP7 ‘Capacities’, Research Infrastructures, 2011) and ‘Call fiche’**
 - ➔ Detailed information on **objectives**, actions and budgets
 - ➔ List of **topics** (targeted approach)
 - ➔ Deadline, **eligibility** conditions, **evaluation criteria** and procedures, particular requirements
- **Guides for applicants**
 - ➔ Practical information on how to apply (**electronic submission** of proposals only)
 - ➔ Specific to a **call** and a **funding scheme**
 - ➔ Instructions for completing ‘part A’ (forms) and drafting ‘part B’ (text) of the proposal

(on Cordis web site, along with other useful documents)



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Contact persons

National Contact Points

http://cordis.europa.eu/fp7/get-support_en.html

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- Environmental sciences: *Agnes.Robin* or *Anna-Maria.Johansson*
- Energy: *Brigitte.Weiss*
- Materials/Analytical facilities: *Hugues.Crutzen* or *Christos.Profilis*
- Physics and Astronomy: *Christian.Kurrer* or *Elena.Righi-Steele*
- Implementation phases: *Lorenza.Saracco*
- Support to policy dev. and programme impl: *Maria.Douka*



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Other relevant information

- **FP7 and Capacities Specific Programme**
 - <http://cordis.europa.eu/fp7/>
 - <http://cordis.europa.eu/fp7/capacities/>
- **Research Infrastructures on Europa website**
 - <http://ec.europa.eu/research/infrastructures/>
- **ESFRI on CORDIS**
 - http://ec.europa.eu/research/infrastructures/index_en.cfm?pg=esfri

Thank you!

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