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Community research

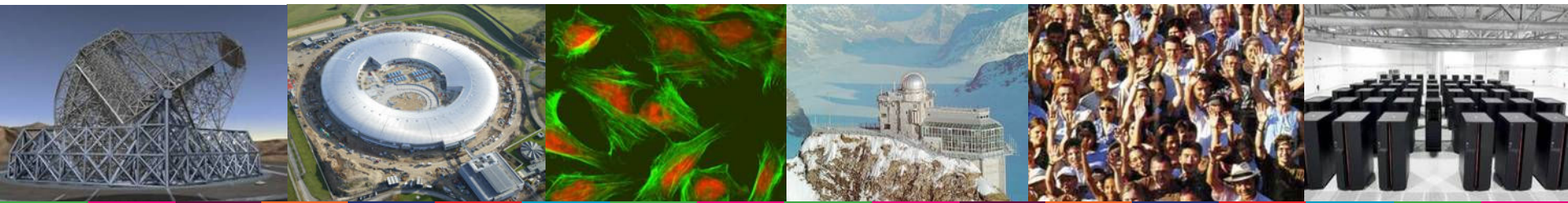
EUDET Annual Meeting 2009

FP7- Research Infrastructures

Information on current and future Calls for Proposals

Geneva, 20/10/2009

Hugues CRUTZEN, European Commission, [DG Research](#), Unit B.3





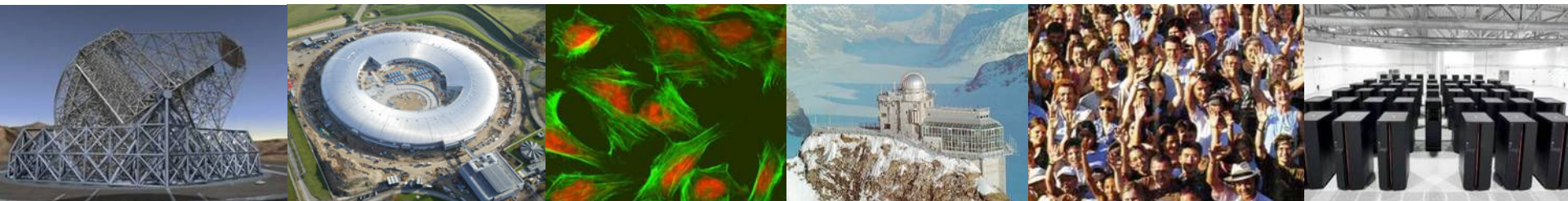
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FP7 Research Infrastructures Call for proposals

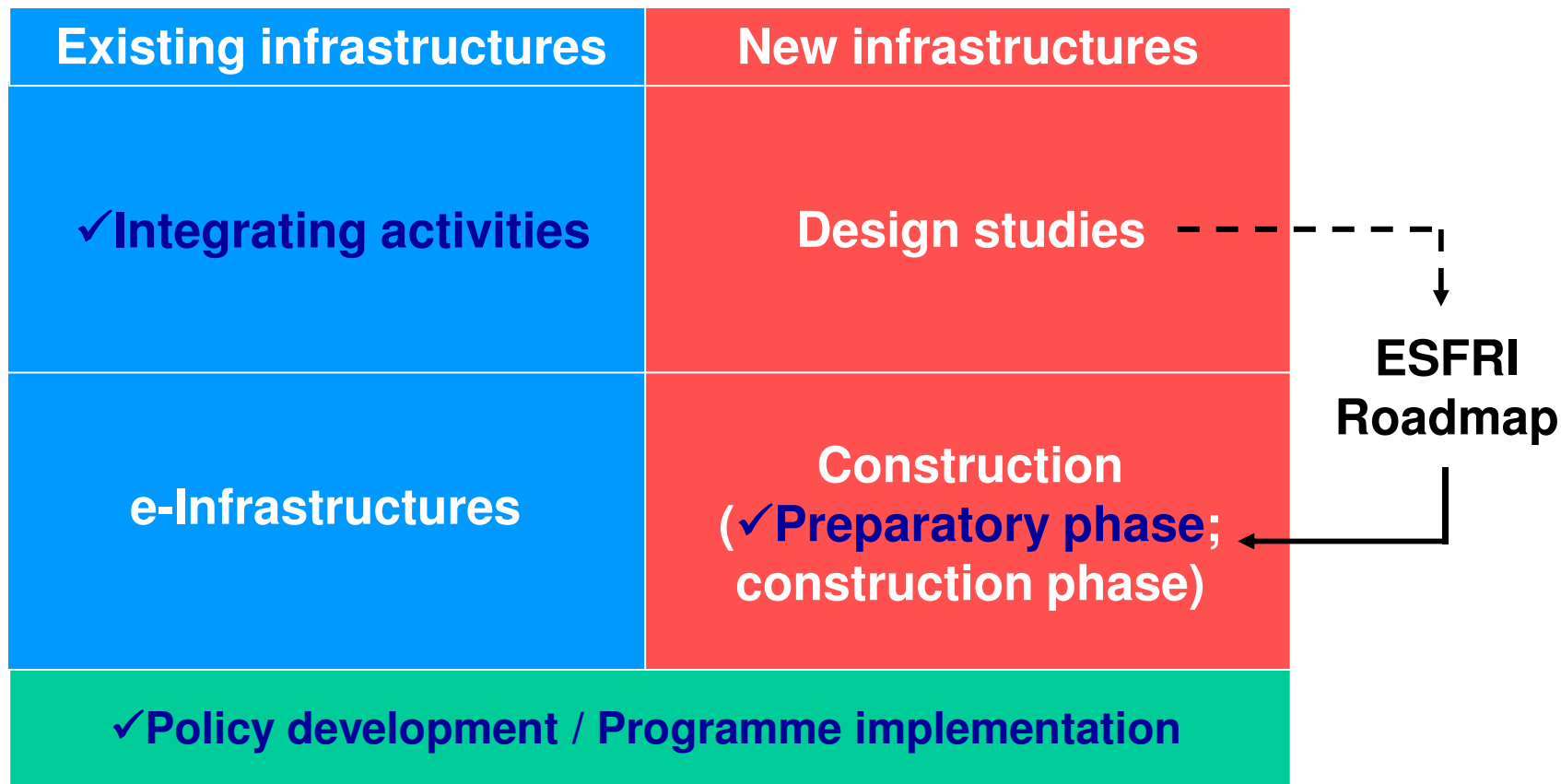
FP7-INFRASTRUCTURES-2010-1

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





FP7 Research Infrastructures action



(✓ call FP7-INFRASTRUCTURES-2010-1)



Call budget

FP7-INFRASTRUCTURES-2010-1

Indicative total budget: **EUR 217 million (M€)**

1.1 Support to existing research infrastructures	
1.1.1 Integrating activities	~ 162 M€
1.2 Support to new research infrastructures	
1.2.2 Construction of new infrastructures (or major upgrades) – Preparatory phase	~ 45 M€
1.3 Support to policy development and programme implementation	~ 10 M€



Indicative timetable

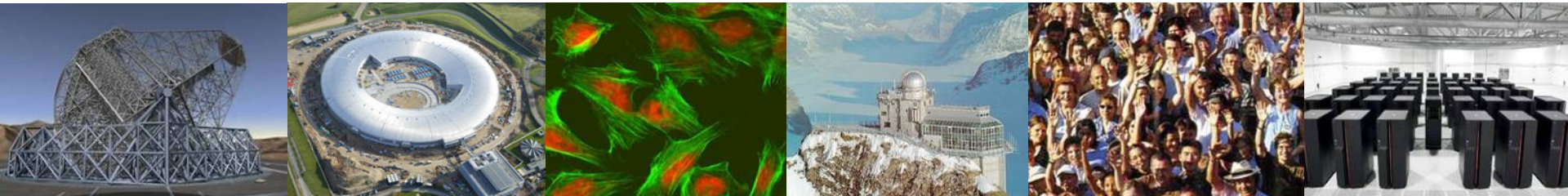
→ Date of publication	30 July 2009
→ Deadline	3 December 2009 17:00 (Brussels time)
→ Evaluation	Dec. 2009 – Feb. 2010
→ Evaluation results	March 2010
→ Launch of negotiation	May 2010
→ Signature grant agreements	from autumn 2010
→ Pre-financing	45 days after signature grant agreement
→ Starting date	to be negotiated



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Integrating activities





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’)



Integrating activities

(1) Networking activities

- Objectives: to foster a culture of **cooperation** between the RI 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!)
- All 3 types of activities are **mandatory**: (1) networking, (2) transnational access and/or service, (3) joint research activities

- **Further requirements**

- **Maximum 4 years**
- **One proposal expected per topic**, corresponding in general to a **given class** of RI



Integrating activities

Targeted approach

- This call addresses **35 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-2010-1.1.35



Integrating activities

List of topics (1)

● Social sciences and humanities

1. European Social Survey.
2. Survey of Health, Ageing and Retirement in Europe.
3. European Social Science Data Archives and remote access to Official Statistics.
4. Archives for Historical research.
5. Towards a European RI for Modelling & Methodologies.
6. RIs for the study of Europe and globalization.



Integrating activities

List of topics (2)

● Life Sciences

7. **Plant genetic Resources Centres.**
8. **Bio-NMR facilities.**
9. **Non-human primate centres.**
10. **Animal genetic Resources Centres.**
11. **Aquaculture research facilities.**
12. **Large-scale bio-banks for clinical and epidemiological studies.**
13. **Facilities for high throughput DNA sequencing and human genotyping.**
14. **High throughput facilities for proteome analysis.**
15. **Good Manufacturing Practices (GMP) facilities for advanced gene and cell therapy research.**



Integrating activities

List of topics (3)

- **Environmental Sciences**

- 16. RIs for Atmospheric Research.**
- 17. Sites and experimental platforms for long-term ecosystem research.**
- 18. RIs for native seed conservation.**
- 19. RIs for Polar research.**
- 20. RIs for Coastal Research, including for Integrated Coastal Zone Management and Planning.**
- 21. RIs for water resource observation, water resource management, hydrological observation.**



Integrating activities

List of topics (4)

- **Energy**

22. RIs for Solar Energy: Photovoltaic Power.
23. RIs for offshore renewable energy devices: ocean-, current-, wave- and wind energy.
24. Infrastructures for research on biomass conversion and biorefinery.

- **Engineering**

25. RIs and services for engineering and improved production processes.
26. RIs for experimental hydraulic research.
27. RIs for earthquake hazard.

- **Mathematics, Computer-related Sciences, Data**

28. Infrastructures for Mathematics and its interfaces with science, technology and society at large.
29. Advanced Digital Visualisation Facilities.



Integrating activities

List of topics (5)

- **Analytical Facilities**

30. RIs for advanced spectroscopy, scattering/diffraction and imaging of materials.
31. RI for processing, analysis and characterisation (physico-chemical properties, health and environmental impact) of engineered nanomaterials, nanoparticles and nanostructures.

- **Physics, Astronomy, Nuclear- and Particle Physics**

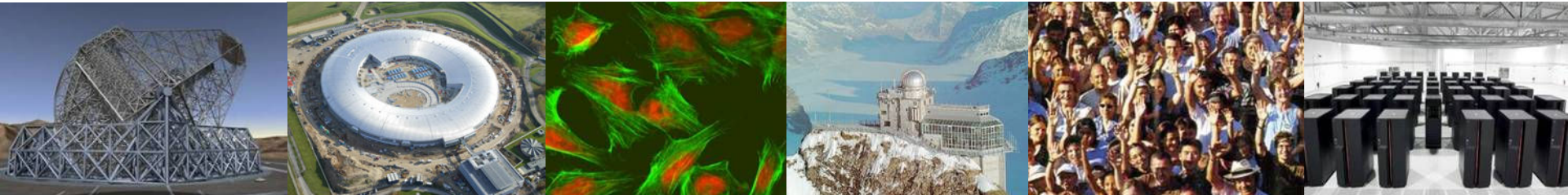
32. RIs for Nuclear Physics.
33. **Detectors for future accelerators.**
34. RIs for dark matter search, neutrinos, gravitational waves.
35. RIs for high energy astrophysics.



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Preparatory phase





Preparatory phase

Objectives and activities

- **Objectives:** to provide **catalytic** and leveraging support for the preparatory phase leading to the construction of new RIs
 - Building primarily upon the work conducted by **ESFRI**
 - Bringing the project to the level of **legal** and **financial** maturity
 - Involving all the **necessary stakeholders** to make the project move forward, take decision, etc.
- **Activities:** **legal** work, **governance**, **strategic** work, **financial** work and, if necessary, technical work

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



Preparatory 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: 6 M€**
(*warning: € 6.000.000,01 → proposal NOT eligible!*)

- **Further requirements**

- **Maximum 4 years**
- **EC funding normally from 3 to 6 M€ (max.)**



Preparatory phase

List of topics

- **Strategic approach: for 11 new projects on the 2008 edition of the ESFRI roadmap**
 - **INFRA-2010-2.2.1: EISCAT_3D Upgrade**
 - **INFRA-2010-2.2.2: EPOS**
 - **INFRA-2010-2.2.3: SIAOS**
 - **INFRA-2010-2.2.4: ECCSEL**
 - **INFRA-2010-2.2.5: EMBRC**
 - **INFRA-2010-2.2.6: EU-OPENSREEN**
 - **INFRA-2010-2.2.7: EuroBioImaging**
 - **INFRA-2010-2.2.8: High Security BLS4 Laboratory**
 - **INFRA-2010-2.2.9: EMFL**
 - For EUDET partners ? → INFRA-2010-2.2.10: CTA**
 - INFRA-2010-2.2.11: One project in the European strategy for particle physics (CERN Council)**



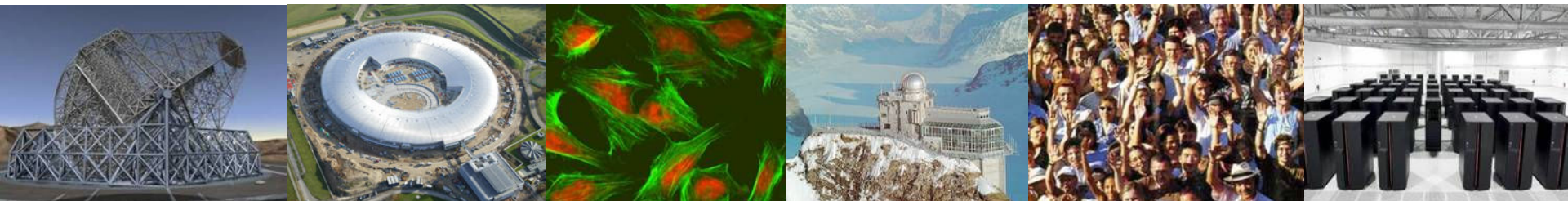
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Support to policy

ERANET

Studies, conferences and coordination actions





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
 - Through *ERANET* and *Studies, conferences and coordination actions*, for **all RI fields and class of RI**
- **Two topics**
 - INFRA-2010-3.1: **ERANET** supporting cooperation for RIs in all S&T fields
 - INFRA-2010-3.2: **Studies, conferences and coordination actions** supporting policy development, including international cooperation in all S&T fields



ERANET

Objectives and activities

- **Objectives:** to develop and strengthen the cooperation and coordination of **national programmes** and **policy actions** for RIs
- **Activities:** (1) information exchange, (2) definition and preparation of joint activities and (3) implementation of joint activities
 - more details in Annex 4 of the 2010 '**Cooperation**' work programme

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



ERANET

Eligibility and requirements

- **Eligibility conditions**

- **General** criteria: deadline, completeness, relevance to topic
- **Eligible partners** are legal entities that **define, finance** or **manage** publicly funded national or regional programmes and/or policy actions (see Work Programme)
- **Minimum 3 eligible partners** established in **a different MS** or **AC**.

- **Further requirements**

- Typically **2 to 3 years**
- EC contribution normally from **1 to 2 M€**



ERANET

Expected proposals

- **Specific focus on:**

- **Structuring** specific science and technology fields not yet fully organised at EU level (development of **joint visions / roadmaps**)
- The **regional dimension** of RIs (coordination of RIs hosted by regions and/or financed by Structural Funds)
- RIs **observatory** at European level.
- **International cooperation** (helping Europe to speak with one voice)



Studies, conferences... Objectives and activities

- To support **policy development** for RIs, including **international cooperation**, in all S&T fields
- **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’)*



Studies, conferences... 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

- **Further requirements**

- Typically **1 to 3 years**
- EC contribution normally from **0,2 to 1 M€**



Studies, conferences... Expected proposals

- Actions related to the **socio-economic impacts** of RIs
 - ➔ Development of new **methods** and **indicators**... (including for the specific impact of scientific data repositories).
 - ➔ **Forward-looking**, prospective, trends per science domain or class of RI...
- Development of the “European **Portal** on RIs’ Services” (as a tool for the scientific community and for policy makers)
- Actions fostering a more balanced **territorial development** and integration of RIs within the ERA (focus on governance and management)
- Actions supporting **international cooperation** and policy initiatives related to RI projects (at global level or with specific interest at international level)



Essential documents

- **Work Programme (FP7 ‘Capacities’, Research Infrastructures, 2010) 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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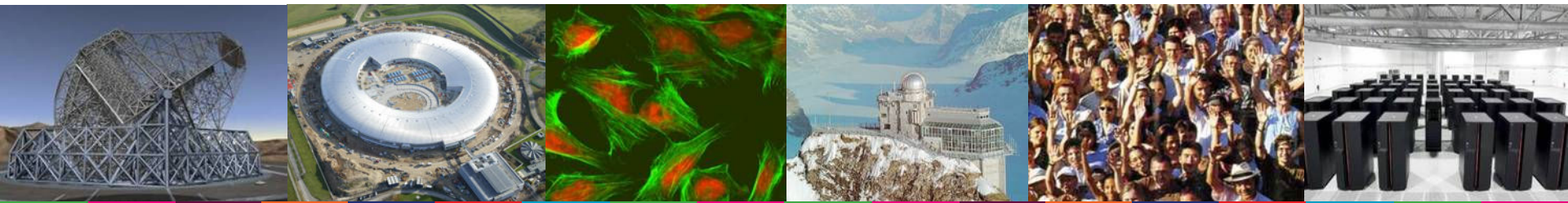
Future Calls for Proposals

Annual Work Programmes 2011 and 2012

(under discussion at the Programme Committee)

Indicative timetable:

- **Call 2011-1 in July 2010**
- **Call 2012-1 end 2011 / early 2012**





Research Infrastructures budget

Under discussion at the Programme Committee

Year	2010	2011	2012-13	Total
Budget available (M€)	215	160	135	510

Design studies		20		20
Construction - preparatory phase	45		30	75
Construction - implementation phase		30		30
Support measures	10	10	10	30
Integrating activities	160	100	95	355



Topics possibly relevant for the EUDET community in Call 2011-1

Integrating Activities (topics being reviewed, ~100 M€)

Physics, astronomy, nuclear- and particle physics

- Research Infrastructures for hadron physics
- Research Infrastructures for radio astronomy in Europe
- Research Infrastructures for optical/IR astronomy
- **Research Infrastructures for astroparticle physics**

Support measures (~10 M€)

Support to Global preparatory phase projects identified by ESFRI and that require further negotiations with international partners

- **ILC, LHC,...**

Design Studies (bottom-up approach ~20 M€)



Topics possibly relevant for the EUDET community in Call 2011-1

Construction - Implementation phase (~30 M€)

Common needs of a cluster of projects in the same area

- Developing technologies & methodologies underpinning the efficient use of a cluster of (new) RIs in the same area (e.g. technologies for archiving, accessing data)
- Fostering the integration of new RIs in the same area to address issues of common interest (e.g. outreach and education, research collaborations, public awareness of science and technology transfer)



Topics possibly relevant for the EUDET community in Call 2012-1

Integrating Activities (topics being reviewed, ~95 M€)

Physics, astronomy, nuclear- and particle physics

- Accelerator physics
- Research Infrastructures for Planetology
- Research Infrastructures for space weather

Support measures (~10 M€)

Support to Global preparatory phase projects identified by ESFRI and that require further negotiations with international partners

- ILC, LHC,...



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://cordis.europa.eu/esfri/>

Thank you!

