

CLIC related Proposal to EU FP7 Program

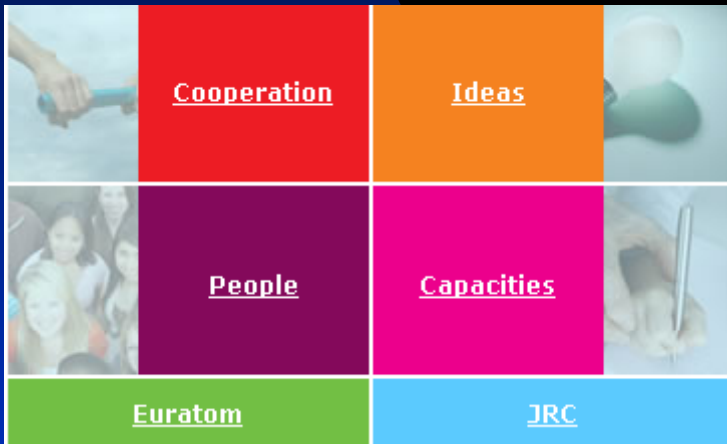
Introduction:

“The FP7 context”

Erk Jensen



Seventh Framework Program



- FP's exist since 1984
- FP7: 2007 – 2013
- Overall budget 50 G€
- Structure:
 - ◆ Cooperation
 - ◆ Ideas
 - ◆ People
 - ◆ Capacities (4.1 G€)
 - ◆ JRC
 - ◆ Euratom





FP7Capacities (4.1 G€)

- Elements of “Capacities”:

- ➔ ◆ Research Infrastructures (RI): 1715 M€
- ◆ Research for benefit of SMEs: 1336 M€
- ◆ Regions of Knowledge: 126 M€
- ◆ Research Potential of Convergence Regions: 340 M€
- ◆ Science in Society: 330 M€
- ◆ Coherent Development of Research Policies: 70 M€
- ◆ Activities of International Co-operation: 180 M€



Research Infrastructures – Calls

Activity	Call 1 (02.05.07)	Call 2 (20.09.07)	Call 3 (Spring 2008)	Call 4 (Autumn 2008)	Call 5 (Autumn 2009)	Call 6 (Spring 2010)	Call 7 (Spring 2012)	
Integrating activities			277 M€			~280 M€	~ 40 M€	
e-Infrastructures	42 M€	50 M€		X	X		X	
Design studies	15. Nov 2007 – 15. Feb 2008 Targeted (INFRA-2008-1.1.2.x): 117 M€ Bottom-up (INFRA-2008-1.1.1): 160 M€						X	
Construction support to the preparatory phase								
Support to policy development and programme implementation				EURO-ν: 4.8 M€ (14.5 M€)				

15. Nov 2007 – 15. Feb 2008
Targeted (INFRA-2008-1.1.2.x): 117 M€
Bottom-up (INFRA-2008-1.1.1): 160 M€

Accelerator R&D: hoping for 20 M€
Presently 3 working groups:

- High Intensity, High Energy Proton Beams
- Novel Acceleration Systems
- SC RF Acceleration Systems

Co-ordination by ESGARD

NAS:
Hoping for 5 to 8 M€ from EU,
for support of existing infrastructures
CLIC, ILC and ν related R&D

* Dates indicated are tentative can change (M€)

ILC-HIGrade: ?? (7.2 M€)

Calls in 2008 will address the following topics:

INFRA-2008-1.1.1 Integrating Activities in all scientific and technological fields

Under the assumption that 1/3 of the total cost will come from the EU and 2/3 from the participating labs, these 5 to 8 M€ set the overall financial frame: 15 M€ to 23 M€!

Charge of the Working groups

- Get commitments for the 2/3!
- Define core (15 M€) and optional (8 M€) activities
- Follow the guidelines set out in the [strategy document](#)

Novel Acceleration Systems

Presently retained activities (indicative overall cost, core + optional)

- High Gradient RF Structures (4 M€)
 - Drive Beam alignment, tuning, ϕ -feedback (2 M€ + 1 M€)
 - Very small emittance transport, diagnostics, alignment, stabilisation, tuning (2 M€ + 1 M€)
 - DR issues, SC wigglers, instrumentation, IBS, vacuum chamber (3 M€ + 1.5 M€)
 - FFAG (3 M€)
 - Polarized Positron source (0 M€ + 3.5 M€)
 - High Power RF source (0 M€ + 1 M€)
 - TNA: MICE
 - Network Activity
- Depending on feedback on matching resources, this will change.
 - Presently, the CLIC related activities are 11 M€ + 7 M€.
 - ILC related activities, when synergetic with CLIC, are included above.
 - "ILC only" activities will be presented separately.

Some relevant links

EC FP7 home page:

<http://ec.europa.eu/research/fp7/>

COmmunity R&D Information Service (CORDIS) FP7 home page:

http://cordis.europa.eu/fp7/home_en.html

ESGARD home page:

<http://esgard.lal.in2p3.fr/>

“Work Programme 2007-2008, Part1: Research Infrastructures”

ftp://ftp.cordis.europa.eu/pub/fp7/ict/docs/e-infrastructure/20070608-research-infrastructure-wp2007_en.pdf

ESGARD Open Meeting on FP7 Integrating Activities, 10-11th Sept:

<http://esgard-omia.web.cern.ch/ESGARD-OMIA/Programme.html>

CERN Council Strategy Group: “The European strategy for Particle Physics”:

<http://council-strategygroup.web.cern.ch/council-strategygroup/>

“European Roadmap for Research Infrastructures”:

ftp://ftp.cordis.europa.eu/pub/esfri/docs/esfri-roadmap-report-26092006_en.pdf

... + some links which are included in the document above.