

# View of DESY

*(Accelerator-Related EU Projects)*

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Visions for the Future of Particle  
Accelerators, Workshop at CERN

11.-12.6.2013

# National – International – European

- > DESY is a national lab, as far as its core funding is concerned.
- > DESY conducts research in an international context, from accelerator research over photon science to particle physics. World-wide competitiveness is an important factor in our program.
- > DESY has a long tradition of international collaboration, as shown by the European XFEL project under construction in Hamburg: European XFEL is a consortium supported by 12 countries.
- > Naturally, many of our friends and neighbors are in Europe: Europe is our most important reference frame.
- > Participation in EU projects has therefore a high priority and has a strong and long tradition at DESY and the Helmholtz association:
  - EU project office in DESY.
  - Helmholtz office in Brussels.





ACCELERATORS | PHOTON SCIENCE | PARTICLE PHYSICS

Deutsches Elektronen-Synchrotron  
A Research Centre of the Helmholtz Association

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NEWS

EU-DOCUMENTS

FP6

FP7

PROPOSAL

HELPFUL INFORMATION

Home /

## EU Project - Office



*The EU Project-Office (EUP) supports scientists at DESY in order to carry out EU projects successfully in all project phases - from the submission of proposals to the final report. Moreover, EUP is the central contact point at DESY for all questions and information concerning EU research funding:*

### Consulting & Information

as well as assistance with the submission of EU project proposals and the efficient project implementation:

Head of EUP: [Dr. Ute Krell](#)

(bldg. 25b room 209), tel. 4508

### Project Management & Implementation

as well as administrative assistance and financial controlling:

Deputy Head of EUP: [Dr. Isabelle Rauschenbach](#)


(bldg. 25b room 210), tel.: 2888

### EU Information

- › [Official FP7 Website](#)
- › [Calls](#)
- › [European Research Council Grants](#)
- › [Research Infrastructures](#)
- › [News: Map of Research Infrastructures funded under FP7](#)



# Helmholtz Association – Brussels Office

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## Brussels Office

The mission of the Brussels Office of the Helmholtz Association is to help increase the participation of Helmholtz Research Centres in European research projects. With the support of the Brussels Office, the Helmholtz Association aims to intensify and expand international contacts and collaborative projects not only in Europe, but worldwide.

The Helmholtz Association will also endeavour to use its considerable research infrastructure and resources to reinforce its activities in coordinating and managing international research projects. These are just some of the contributions the Helmholtz Association can make towards realising a European Research Area that will maintain and reinforce Europe's competitiveness in the areas of science, technology and economy. The Helmholtz Association wants to be a shaping force in the creation of the European Research Area.

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### Service provided by the Brussels Office

  
European-parliament in brussels. Image: Helmholtz Association

The main task of the Brussels Office is to support the Helmholtz Research Centres in their efforts to compete for research funding and to increase their participation in the EU Research Framework Programmes.

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**Directions**



# Present Programs Connected to Accelerator R&D

Programs with DESY accelerator involvement	Ongoing EU Projects		
<b>EUCARD</b> <i>Jacek.Sekutowicz</i>	01.04.2009 – 31.03.2013	32.3 M€ (EU: 10 M€)	0.6 M€
<b>EUCARD2</b> <i>Ralph Assmann</i>	01.05.2013 – 30.04.2017	23.5 M€ (EU: 8 M€)	0.7 M€
<b>TIARA</b> <i>Reinhard Brinkmann</i>	01.01.2011 - 31.12.2013	9.1 M€ (EU: 3.9 M€)	0.14 M€
<b>CRISP</b> <i>Hans Weise</i>	01.10.2011 – 30.09.2014	15.9 M€ (EU: 12 M€)	1.7 M€ (Acc. 1.15 M€)
<b>HiLumi-LHC</b> <i>Rainer Wanzenberg</i>	01.11.2011 – 31.10.2015	21 M€ (EU: 4.9 M€)	<0.1 M€

*Courtesy H. Weise*



# European Networking – Example

European Network

**EuroNNAC**  
for Novel Accelerators

EINDHOVEN University of Technology

University of Oxford  
University of Strathclyde  
Manchester University  
Lancaster University  
Cockcroft Institute  
STFC Daresbury Laboratory  
John Adams Institute  
ASTeC  
STFC Central Laser Facility  
Liverpool University  
University College London  
Imperial College

Instituto Superior  
Tecnico de Lisboa

LULI  
Soleil  
LPGP  
LOA  
IRAMIS/CEA  
Laboratoire Leprince-Ringuet  
(Ecole polytechnique - CNRS/IN2P3)  
LAL

European Organization for  
Nuclear Research (CERN)  
PSI

University Düsseldorf  
LMU University Munich  
DESY  
GSI  
Max-Planck-Institute for Quantum Optics  
Max-Planck-Institute for Physics  
Helmholtz Institute Jena  
Helmholtz-Zentrum Dresden-Rossendorf  
University Hamburg

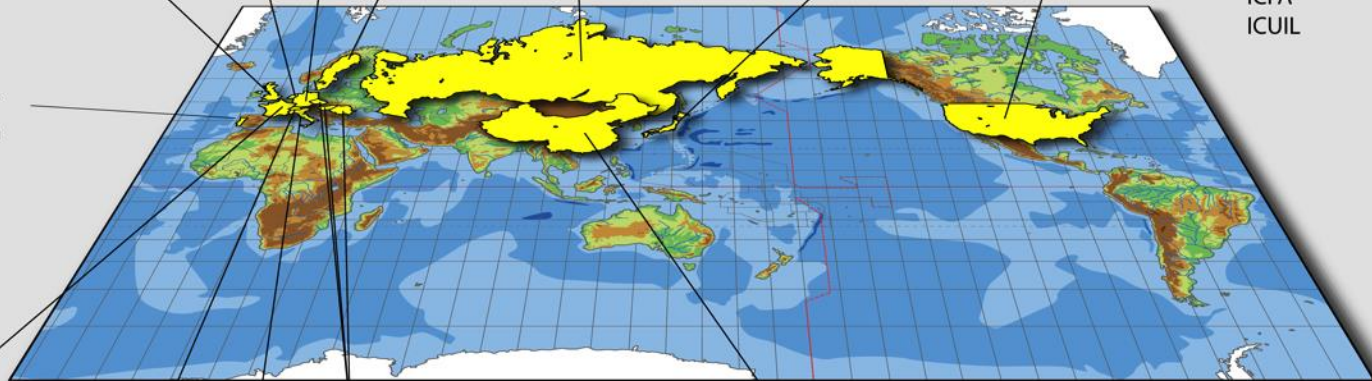
Lund University

Budker INP  
Institute of Applied Physics RAS

KEK

Fermilab  
SLAC  
UCLA  
LBNL  
BNL

ICFA  
ICUIL



Extreme Light Infrastructures (ELI)

INFN-LNF  
Pisa University and INFN  
Consiglio Nazionale Delle Ricerche, INO  
University of Rome LA SAPIENZA

Inst. of Physics, Chinese Academy of Sciences  
Tsinghua University, Beijing  
Shanghai Jiao Tong University



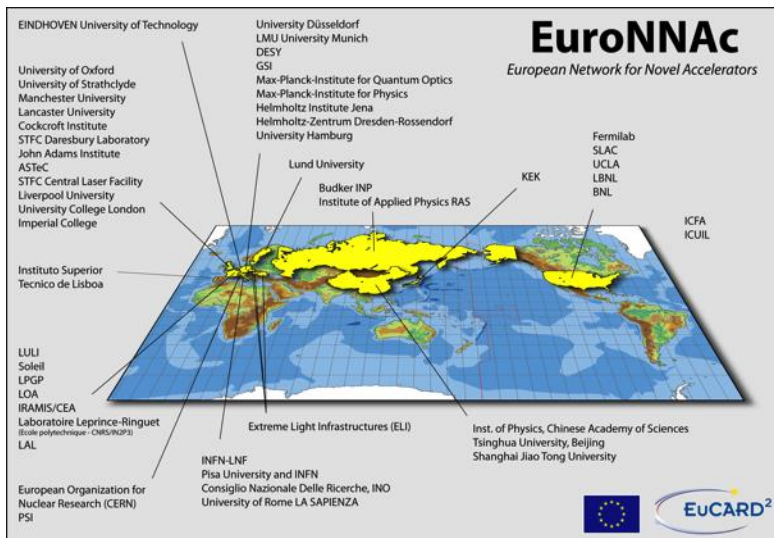


# First European Advanced Accelerator Concepts Workshop



- A network with DESY coordination (teamed up with CERN and ecole polytechnique) and central network fund at DESY.
- 145 participants, 128 from EU, 15 countries, 69 institutes.
- EU funding allows building this network and inventing together novel accelerators for science (particles and photons) and society (medicine).
- Would not have happened without EU projects!

# EU Projects for World-Class Science...



- Europe is small on this map, if compared for example to Asia...
- Germany is even much smaller on this map!
- World-class science is one of our big European assets. We have a tradition here! See also success of CERN!
- EU projects bring national labs, universities, institutes, international endeavors (ELI), ... in accelerator R&D together.
- Together we can keep up world-class competition with our friends in Asia and the US!



*EuroNNAc member's board, June 2013*



# DESY Experience and Comments I (Acc. Research)

- > **DESY is a strong, happy supporter of EU projects** in accelerator research and other fields!
- > Financial motivation for participating into EU projects is limited due to relatively low funding for accelerator R&D (accelerators are expensive).
- > Participation makes a lot of sense due to networking and teaming up with other European actors (medium-term benefit). Efforts to improve acceptance in technical teams are ongoing.
- > Resources for EU projects are limited and should be available for turning EU projects into big successes and not for reporting, if avoidable!
- > Minimization of bureaucracy is very important and should be further pursued. A happy researcher is a good researcher!
- > The same is true for administrative procedures. E.g. simplified reporting on lab resources inside EU projects.
- > Support from a dedicated EU project office is essential for success, like existing at DESY (DESY-EUP, U. Krell et al).



# DESY Experience and Comments II (Acc. Research)

- > Not easy to keep up to date on new opportunities in EU calls and to find our way.
- > Example: We are discussing plans for a **Next Generation European Distributed Test Facility for Novel Accelerators**.
  - We could imagine building only one next generation infrastructure in Europe. Would bundle efforts and maximize competitiveness.
  - Work and budget could be distributed in Europe. Similar to HEP big experiments → one experiment that is constructed by many partners. Similar to ELI approach...
  - Location could be determined in European bidding. Host state puts extra resources. Research time is distributed and R&D outcome available to all partners.
  - How would we fund it? European funding or national funding? National funding has a tendency to favor installation in its country. European funding, as available now, is insufficient for our goals.
- > Increased funding for accelerator R&D would be beneficial. Would open new possibilities of collaboration and R&D.

