



## OPENING UP ACCESS TO JRC'S EUROPEAN COMMISSION RIS

### Public Awareness of Research Infrastructures

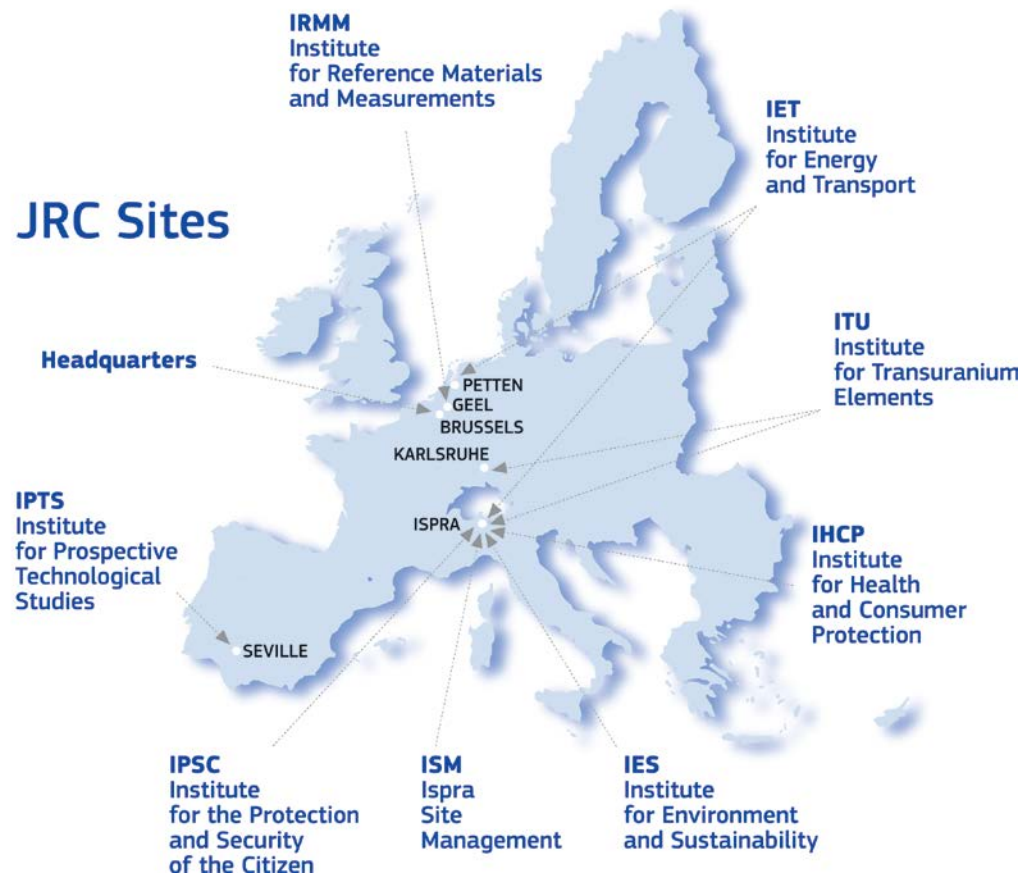
18-19 June 2015, Garching, Germany

**Fabio Taucer**

International, Interinstitutional  
and Stakeholder Relations  
Joint Research Centre

# The Joint Research Centre

- **Established 1957**
- 7 institutes in 6 locations
- **3055 staff** in 2014
- **720 peer-reviewed scientific publications** in 2014
- Budget: **€393 million annually**, plus €73 million earned income



# JRC Mission

- Independent, **evidence-based scientific** and technical support
- Works in **support** of other Commission services, EU Institutions and Member States
- **Independent** of industrial and national interests



## Economic Stability and Growth

Economic & Monetary Union, Innovation & Growth, Information Society

## Security

Safety and Security

## Climate Change

Environment, Resources

## Feeding the Planet

Agriculture and Food Security

## Health

Health and Consumer Protection

## Sustainability

Energy, Transport

## Demographic Change, Poverty, Social exclusion

Impact Assessment, Social innovation

# Research Infrastructures at JRC

- The JRC has **unique (large scale)** Research Infrastructures (RI)
- There is considerable **demand** by European researchers and industry to access the JRC RIs (FP Programs, Industry)
- The JRC can offer its **expertise** in key areas strategic to the EU
- The large RIs of the JRC offer possibilities of **demonstration projects** facilitating the transfer of knowledge and innovation from research to industry
- Role of JRC and RIs in drafting of **European Guidelines** → **Standardisation**

- The JRC is strategically positioned for promoting **collaboration at EU and international level**
- Key role in the **Dissemination** of knowledge of research results: databases, open access
- JRC RIs provide access to **training**

# Transnational Access / FP7

Three RIs offered transnational access (TA) under the European research infrastructures networks of FP7:

- **Cyclotron Laboratory** (IHCP) (2011-2015)
- **ELSA** - European Laboratory for Structural Assessment (IPSC) (2009-2013)
- **ESTI** – European Solar Test Installation (IET) (2011-2015)



# Large Scale Testing and RIs in the Construction Sector

- European Union 7<sup>th</sup> Framework Programme – Capacities – Research Infrastructures
- **4 years + 5 months** (March 1<sup>st</sup> 2009 – Jul. 31<sup>th</sup> 2013)
- 23 European partners
- Largest Earthquake Engineering labs in Europe
- **€10.672.583 total budget**
- €8.700.000 Contribution of European Community

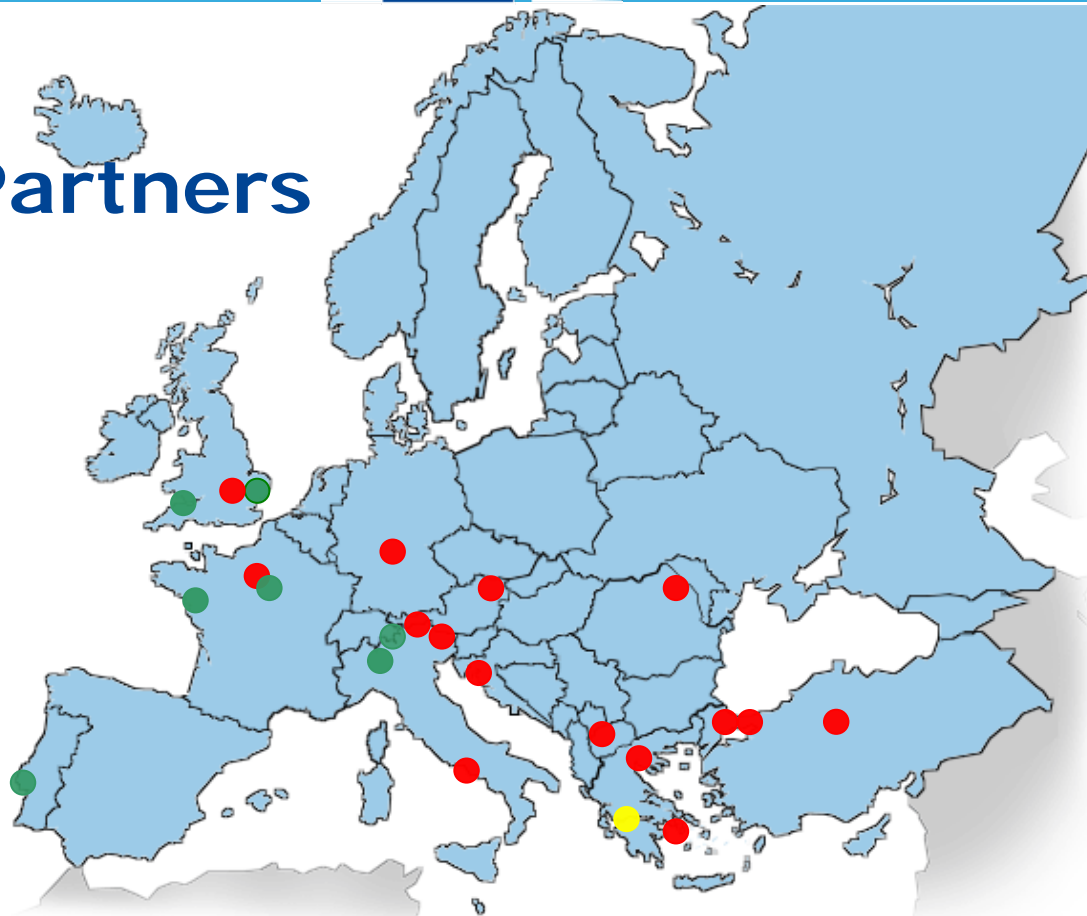






# SERIES Partners

11 countries  
23 partners



- Coordinator: **Prof. Michael Fardis** / *University of Patras (GR)*
- Large Research Infrastructure
- Partner

# Transnational Access

Laboratory	# of Projects	# of Users	Access Days
ELSA / JRC	3	46	24
TAMARIS / CEA	3	18	137
BLADE / UNIVBRIS	7	42	77
NESDE / LNEC	4	12	100
TREES / EUCENTRE	3	22	77
IFSTTAR	3	22	64
UCAM	4	24	66
<b>Total</b>	<b>27</b>	<b>186</b>	<b>545</b>

Transparent, fair and impartial peer-review and evaluation of proposals

Brochure of projects: <http://www.series.upatras.gr/node/743>


Seismic Engineering Research Infrastructures for European Synergies  
EUROPEAN COMMISSION • FRAMEWORK PROGRAMME 7

Issue 3, February 2014

**SEVENTH FRAMEWORK PROGRAMME**  
Capacities Specific Programme  
Research Infrastructures  
Project No.: 227887

**Highlights**

- A 23-strong partnership of the major European players in earthquake engineering open up their research infrastructures to the wider European earthquake engineering research community.
- Free-of-charge Transnational Access (TA) and support is provided to European researchers to carry out experimental research at the EU's four largest shaking tables, the EU's largest reaction wall and pseudodynamic (PsD) testing facility, and two unique centrifuge test facilities.
- 27 TA proposals were accepted by the User Selection Panel in four selection cycles, according to specific criteria ([www.series.upatras.gr/ta-proposals](http://www.series.upatras.gr/ta-proposals)).
- Final reports of TA projects are available at: [www.series.upatras.gr/TA\\_projects](http://www.series.upatras.gr/TA_projects)

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**Transnational Lab Access**

**SERIES Transnational Access activities**

Within the framework of FP7 Project SERIES (227887), Transnational Access (TA) to a portfolio of complementary world class research infrastructures was offered to selected talented European researchers. Users were given access to the infrastructures for the design of the test specimen and the instrumentation, for the execution of the tests and for the processing and interpretation of results. The lead user and the majority of the users in a team were working in an institution of a EU Member State or EU Associated country, but other than the one where the TA facility is established.

Users integrated into the scheduling of the infrastructure during the execution programme of each project, from the design and construction of the specimen, to instrumentation, experimental testing and interpretation of the experimental results, receiving from

the staff of the infrastructure all the support needed to carry out their project. A support team was allocated to each user team on a daily basis, to develop and execute the test programme, including appropriate technicians for test model fabrication, instrumentation, etc.

The infrastructure facilities were well prepared to host external researchers who, during their stay, integrated with the permanent staff, from whom they received technical

and scientific assistance. After receiving the necessary training, users were able to fully participate in the test preparation, execution, data acquisition and interpretation.

The aim of this series of brochures is to update interested parties on the progress of TA activities, and mainly to present the most significant results. A short introduction about each TA facility is given first, and information on the hosted projects follows.

**TA facilities**



Facility	TA projects	Access days foreseen	Access days delivered
CEA	3	100	137
JRC	3	24	24
EUCENTRE	3	64	77
UNIVBRIS	7	126	148
LNCE	4	100	100
IFSTAR	3	64	64
UCAM	4	62	66
<b>Total</b>	<b>27</b>	<b>540</b>	<b>616</b>

Note: The unit of access being offered corresponds to an 'access day'. An access day is defined according to the type of infrastructure offering access to users.



## Experimental Research in Earthquake Engineering

EU-SERIES Concluding Workshop

Series: » Geotechnical, Geological and Earthquake Engineering, Vol. 35

Taucer, Fabio, Apostolska, Roberta (Eds.)

2015



**Seismic Engineering Research Infrastructures for European Synergies**  
UNIVERSITY OF PATRAS • EUROPEAN COMMISSION • FRAMEWORK PROGRAMME 7

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### About SERIES Project

The project ended on July 31st, 2013.

European seismic engineering research suffers from extreme fragmentation of research infrastructures (RI) between countries and limited access to them by the S/T community of earthquake engineering, especially that of Europe's most seismic regions. A 23-strong consortium of the key actors in Europe's seismic engineering research (including 3 industrial beneficiaries) addresses these problems in a sustainable way via a 4-year programme of activities at an annual cost to the EC less than 1.35% of the total present value (€190m) of the RIs' material resources.

Mission:

*"Bridging the Gaps of RTD in Experimental Earthquake Engineering and Structural Dynamics,*

The scope covers all aspects of seismic engineering testing, from eight reaction wall pseudodynamic (PsD) facilities and ten shake table labs, to EU's unique tester of bearings or isolators, its two major centrifuges and an instrumented site for wave propagation studies.

Transnational Access is offered to a portfolio of world class RIs: EU's largest PsD facility, four diverse shake tables and the two centrifuges.

\*\*\* more

[Highlights](#) | [Facilities](#) | [Map](#)

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# ELSA – European Laboratory for Structural Assessment



RETRO

SERFIN

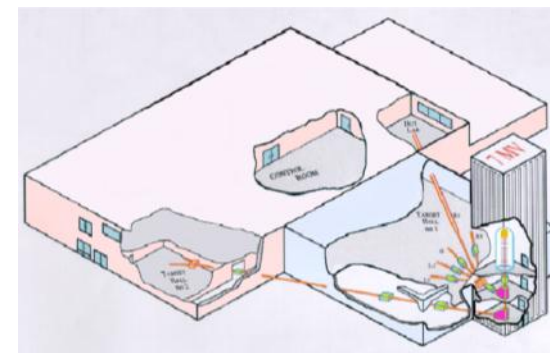
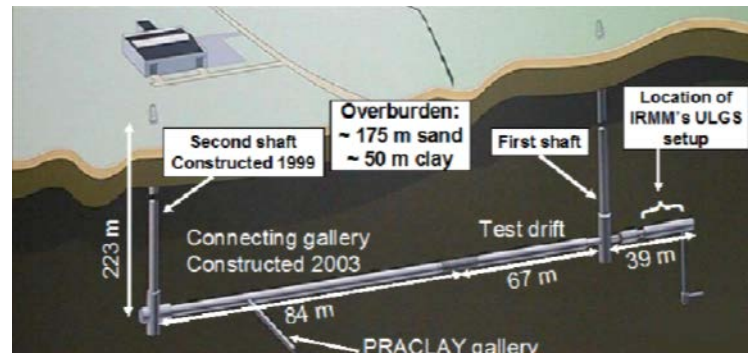


DUAREM



# EUFRAT – European facility for nuclear reaction and decay data measurements

- 150 MeV linear electron accelerator (**GELINA**) with a high-resolution neutron time-of-flight (**TOF**) facility;
- 7 MV **Van de Graaff** facility for the production of ion beams
- **HADES**: low-level radioactivity laboratory in deep-underground



# Opening up Access to JRC RIs

- JRC successfully **delivered Transnational Access** to its RIs under **DG RTD** Capacities Programme (FP5, FP7)
- JRC has made **high investments** in its Research Infrastructures
- Some of these facilities are **unique or complementary** to other RIs in Europe
- **High demand** from European researchers
- These facilities are **strategic for EU research**



**Make these facilities accessible  
to EU Users in 2016**

# Legal Framework

Setting up a **Legal Framework** for Opening up Access of JRC RIs

Based on the **Charter of Access** developed by DG RTD

➔ Non-binding **common standards and harmonized access** rules and conditions for the use of RIs

Considers issues of:

- Access policy
- Research data management
- Intellectual Property, Dissemination
- Education and training
- Health, safety, security and environment
- Rules for entry and stay of visitors at the JRC sites



# Modes of Access

## Relevance-driven (physical)

- Dependent on scientific **relevance** and socio-economic issues at EU level excellence, originality, technical and ethical issues, and feasibility.
- Calls for proposal in **strategic areas**, transparent **selection process**
- Proposals evaluated by an **independent panel of experts**
- Use of **Institutional resources**: staff and consumables

## Market-driven (physical)

## Web-based access (digital)

# JRC Science Hub

Calls for Proposals and the whole selection process will be announced in a dedicated page at the JRC Science Hub

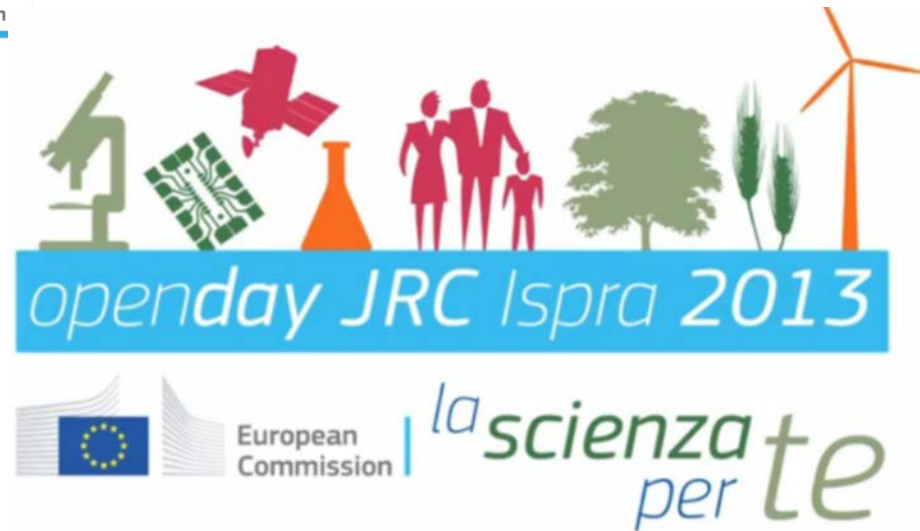
<https://ec.europa.eu/jrc/>



The screenshot shows the JRC Science Hub website interface. At the top, there is a navigation bar with links for 'A-Z Index', 'FAQ', 'Mailing lists', 'Privacy statement', 'Legal notices', 'Contact', and 'Search'. The main header features the JRC logo and the text 'JOINT RESEARCH CENTRE - The European Commission's in-house science service'. Below this is a secondary navigation bar with categories like 'About us', 'Research', 'Knowledge', 'Working with us', 'News & events', 'Our Institutes', and 'Our Communities'. The main content area is titled 'Joint Research Centre (JRC) Science Hub' with the tagline 'Bringing together scientific knowledge for Europe'. There are several featured sections: 'EU at EXPO Milano' with a call to action to find out more about the EU at Expo Milano 2015; 'JRC Highlights' featuring three news items: 'Over 31 million jobs across Europe supported by EU exports to the world, EU report says' (dated 1 JUN 2015), 'High chlorine coal affects pollution from domestic stoves' (dated 28 MAY 2015), and 'New smart specialisation platform on energy supports EU regions to develop low-carbon solutions' (dated 26 MAY 2015); and 'Latest JRC publications' including 'A new measure of ecological network structure based on node overlap and segregation' and 'Bioenergy and Latin America: A Multi-Country Perspective'. There is also a 'Tweets' section showing a tweet from @EUropa2015 and an 'Upcoming events' section listing the '23rd European Biomass Conference and Exhibition (EUBCE)' in Vienna (AT) and a 'GRO-GPOD-SilverCarbon Workshop on Time Series Analysis for Forest Cover Change' in Braszville (CG).

# Open Day

10,300 visitors in 2014



19 June 2015



# Thank you