JRC experiences in capacity building and life long learning

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European Commission
Joint Research Centre
Institute for Environment and Sustainability
Digital Earth and Reference Data Unit

www.jrc.ec.europa.eu

Serving society
Stimulating innovation
Supporting legislation
Outline

• JRC Overview
• IES/DE & RD
• Capacity Building (CB) and Life Long Learning (LLL)
• Conclusions and Future Activities
JRC overview

- (Euratom) Established in 1957 (Treaties of Rome)
- Is a department (Directorate-General, DG) of the EC providing independent scientific and technological support for EU policy-making
- It works closely on the development of EU legislation with the relevant Commission services, such as the Agricultural, Enterprise and Industry, Environment and Health, Connect and Consumers DGs
- ~2800 permanent and temporary staff
- Annual budget of around €330 million
- [http://ec.europa.eu/dgs/jrc/](http://ec.europa.eu/dgs/jrc/)
JRC’s Mission and Role

- Part of the EU's Framework Programme for Research
- To provide customer-driven scientific and technical support for the conception, development, implementation and monitoring of EU policies
- Direct research: JRC is the EC's in-house science service and the only DG executing direct research; providing science advice to EU policies
JRC overview

JRC Institutes

- IRMM – Geel, Belgium
  Institute for Reference Materials and Measurements
- ITU – Karlsruhe, Germany, and Ispra, Italy
  Institute for Transuranium Elements
- IET – Petten, The Netherlands, and Ispra, Italy
  Institute for Energy and Transport
- IPSC – Ispra, Italy
  Institute for the Protection and Security of the Citizen
- IES – Ispra, Italy
  Institute for Environment and Sustainability
- IHCP – Ispra, Italy
  Institute for Health and Consumer Protection
- IPTS – Seville, Spain
  Institute for Prospective Technological Studies
Institute for Environment and Sustainability (IES)

- Mission is to provide scientific and technical support to EU policies for the protection of the European and global environment
- IES carries out research to understand the complex interactions between human activity and the physical environment, and how to manage strategic resources (water, land, forests, food, minerals, etc.) in a more sustainable manner
- IES provides the scientific basis for the conception, development, implementation and evaluation of EU policies that promote the greening of Europe and the global sustainable management of natural resources
IES Organisational Chart (December 2012)

Director
Maria BETTI

Advisor to the Director
Peter PÀRT

Scientific Assistant to the Director
Pam KENNEDY

H01 - Water Resources Unit
Giovanni BIDOGLIO

H02 - Air and Climate Unit
Elisabetta VIGNATI

H03 - Forest Resources and Climate Unit
Guido SCHMUCK

H04 - Monitoring Agricultural Resources Unit
Neil HUBBARD

H05 - Land Resource Management Unit
Alan BELWARD

H06 - Digital Earth and Reference Data Unit
Alessandro ANNONI

H07 - Climate Risk Management Unit
Frank RAES

H08 - Sustainability Assessment Unit
Constantin CIUPAGEA

Total staff: circa 420
Digital Earth & Reference Data Unit

• Overall technical coordination of the INSPIRE Directive 2007/2/EC aiming to develop the European SDI and plays a leading role in the development of the Global Earth Observation System of Systems (GEOSS)

• Actions:
  • Sharing Policies for Environment (SHAPE)
  • Environmental Information Systems Implementation and Evolution (ENABLE)
  • Community Image Data portal (CID)
JRC role in Capacity Building (CB) and Life Long Learning (LLL)

- Jobs
- Conferences & Workshops
- Trainings
- Contribution in projects
- Publishing
- INSPIRE Forum
- Centre for Research on Lifelong Learning (CRELL)
- ...
Capacity Building (CB) and Life Long Learning (LLL)

- Temporary positions
- Grantholders (GHs)
  - Grantholder contracts are aimed at developing training, career development and mobility opportunities for researchers throughout their careers
- Seconded National Experts (SNEs)
  - SNEs have a dual role: to bring to the Commission their experience of the issues they are used to dealing with where they normally work and to take back to their home administration the knowledge of Community issues which they acquire during their secondment
- Trainees
  - Opportunity to acquire practical experience and knowledge of the day-to-day workings of the JRC
Capacity Building (CB) and Life Long Learning (LLL)

- GH 20
  - Intended for students who submit a proposal for doctoral studies related to a research area published in an Institute's call for interest for grant holders

- GH 30
  - Aimed at researchers holding a doctoral degree or having fulfilled all the obligations to obtain a PhD or having a minimum of 5 years of research experience after the first university degree giving access to doctoral studies in a field relevant to the JRC's scientific activities

- GH 40
  - Intended for senior scientists holding a doctoral degree and 10 years of research experience or 15 years of research experience after a degree allowing access to doctoral studies in a field relevant to the JRC's scientific activities

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The Joint Research Centre (JRC) is the European Commission’s in-house science service. Operating in Belgium, Germany, Italy, Spain and the Netherlands, with a headcount of over 2,800, the JRC is currently seeking post-doctorate researchers from the EU Member States and from Associated Countries to the 7th Research Framework Programme with the right blend of academic/professional experience to work at the cutting edge of scientific and technological developments supporting EU policies.

If you have a sound track record of research in Natural Sciences; Quantitative Sciences; Human and Social Sciences; Agricultural, Environmental and Earth Sciences; Health Sciences, you can make all the difference within the JRC’s stimulating multicultural environment. In return, you can expect an exciting fixed-term opportunity, a competitive remuneration package and the chance to become involved in some of the most exciting research initiatives in Europe today.

To learn more, visit [www.jrc.ec.europa.eu](http://www.jrc.ec.europa.eu) or watch the [JRC at a glance video](http://jrc.ec.europa.eu).

Open on: 29 January, 2013

Please note: the deadline for applications is 12.00 (CET) on 1 March 2013.
Capacity Building (CB) and Life Long Learning (LLL)

- Conferences
  - INSPIRE Conference
  - GEOCAP Annual Conference (with special emphasizes to geomatics and remote sensing)
- Workshops
  - Costs and benefits of implementing the INSPIRE Directive Workshop
  - Socio-Economic Benefits from the Use of Earth Observation
- Trainings
  - Summer School on GNSS core technologies
- Support to thematic policy DGs and working groups of the EC (e.g. MSFD, WFD WGs, Natura 2000, ...)

Regional Conference on Capacity Building and Education
2013-03-05, Durrës, Albania

European Commission

Joint Research Centre
Capacity Building (CB) and Life Long Learning (LLL)

• Contribution in Projects (FP7)
  • smeSpire - Turn the challenges of the INSPIRE implementation into business opportunities for the Geo-ICT European (www.smespire.eu)
  • EuroGEOSS - the European approach to GEOSS (www.eurogeoss.eu)
  • Envirofi - The Environmental Observation Web and its Service Applications within the Future Internet (www.envirofi.eu)
  • GEOWOW - GEOSS interoperability for Weather, Ocean and Water (www.geowow.eu)
  • GIGAS - GEOSS, INSPIRE and GMES an Action in Support (www.thegigasforum.eu)
  • ...

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Capacity Building (CB) and Life Long Learning (LLL)

- Other EU funded projects e.g. EnviroGRIDS (http://envirogrids.net)
- Training Framework for INSPIRE and EU GI related initiatives by GISIG - Geographical Information Systems International Group (www.gisig.it):
  - BRISEIDE (www.briseide.eu)
  - NatureSDI+ (www.nature-sdi.eu)
  - HUMBOLDT (www.esdi-humboldt.eu)
  - NESIS (www.nesis.eu)
Publishing
(http://publications.jrc.ec.europa.eu/repository/)

• Reports
  • A Conceptual Model for Developing Interoperability Specifications in Spatial Data Infrastructures (2012)
  • Socio-Economic Benefits from the Use of Earth Observations (2011)
  • …

• Papers
  • International Journal of Spatial Infrastructures Research (http://ijsdir.jrc.ec.europa.eu/)
  • CETL VLADO; TOTH Katalin; SMITS Paul (2013): INSPIRE from the JRC point of view/INSPIRE iz perspektive JRC-a
  • TOTH Katalin; TOMAS Robert (2011): Quality of geographic information - simple concept made complex by the context
  • …
INSPIRE Forum
(http://inspire-forum.jrc.ec.europa.eu/)

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Why Register?

Of course, you are very welcome simply to visit the INSPIRE Forum, but there are a number of reasons why you might like to register.

As a registered user, you will be able to:

• Start or join discussions in the various INSPIRE Forum Groups.
• Announce your events.
• Have access to advanced navigation of the forum.
• Manage and receive automatic notifications on topics you are interested in.

But most importantly, by registering with the INSPIRE Forum, you’ll be joining the INSPIRE community, connecting with professionals working in different countries and thematic areas, sharing knowledge and best practice.

Latest Tweets from INSPIRE_EU

- about an hour ago RT @PYeEARTHorG #eoec
  the Commission wants to work with the communities at European and global level
  pic.twitter.com/JulMyanUm

- about an hour ago Eye on Earth: Dublin Live streaming syneonearth.org/en-us/Pages/ST...

- about an hour ago RT @PYeEARTHorG Alan Edwards: We need a policy framework that encourages rather than stifles sustainability initiatives. #eoec

- about a day ago The deadline for submitting abstracts for the INSPIRE Conference 2013 is extended until 19th March.
  inspire.jrc.ec.europa.eu/events/confer...

Latest Tweets for #INSPIRE_EU

Welcome to the INSPIRE Forum

INSPIRE Conference 2012
Visit the INSPIRE Conference 2012 Storify for an overview of discussions and more

INSPIRE Forum:
Connecting people and sharing knowledge

Latest INSPIRE Forum News

INSPIRE Forum 2 days ago

News: Experts for Horizon 2020 Advisory Groups: Call for expressions of interest
INSPIRE Forum 3 days ago

News: INSPIRE: aggiornamento delle Technical Guidelines e degli schemi relativi alle Data Specifications
Massimo Zotti 23 days ago

News: European Commission launches online service to promote semantic interoperability
INSPIRE Forum 34 days ago

Latest blog posts

Blog: SuperCAT: The Way to Open Geospatial Services
Inahurad 45 days ago

Blog: Habitats moderated discussion
Inahurad 40 days ago

Blog: The ePSI Helsinki Open Transport Data Manifesto
INSPIRE Forum 119 days ago
Centre for Research on Lifelong Learning (CRELL)

- Established in 2005 in JRC (Ispra, Italy)
- Mission is to provide expertise in the field of indicator-based evaluation and monitoring of education and training systems and their contribution to the achievement of Community objectives specified in the Lisbon Agenda and more recently in the EU2020 agenda
JRC Enlargement & Integration action
(http://ec.europa.eu/dgs/jrc/index.cfm?id=1720)

- JRC gives scientific and technical support to countries on the road towards EU membership, New Member States and Framework Programme (FP) Associated Countries
- Job opportunities
- Activities (workshops, training courses and conferences)
Conclusions & Future activities

• In general
• Most of the goals of the Lisbon Strategy were not achieved by 2010
• Council conclusions of 12 May 2009 on Strategic framework for European cooperation in education and training (‘ET 2020’)

• ET2020 objectives
  1) Making lifelong learning and mobility a reality
  2) Improving the quality and efficiency of education and training
  3) Promoting equity, social cohesion and active citizenship
  4) Enhancing creativity and innovation, including entrepreneurship, at all levels of education and training
Conclusions & Future activities

- JRC
  - Continuation of activities in capacity building and life long learning
  - INSPIRE Conference 2013, Florence Italy E&I workshop “INSPIRE in practice - Intelligent extensions and applications” Deadline March 15
  - E&I workshop “INSPIRE and integrated land & water management”, September, Croatia
  - INSPIRE Maintenance & Implementation Framework (MIF) – setting up the pool of experts
Thank you for your attention!

Questions?