



## **Co-ordinating Research e-Infrastructure Policies: e-Infranet and SIM4RDM ERANETs**

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## **e-Infranet ERANET**

**January 2010 – December 2012**

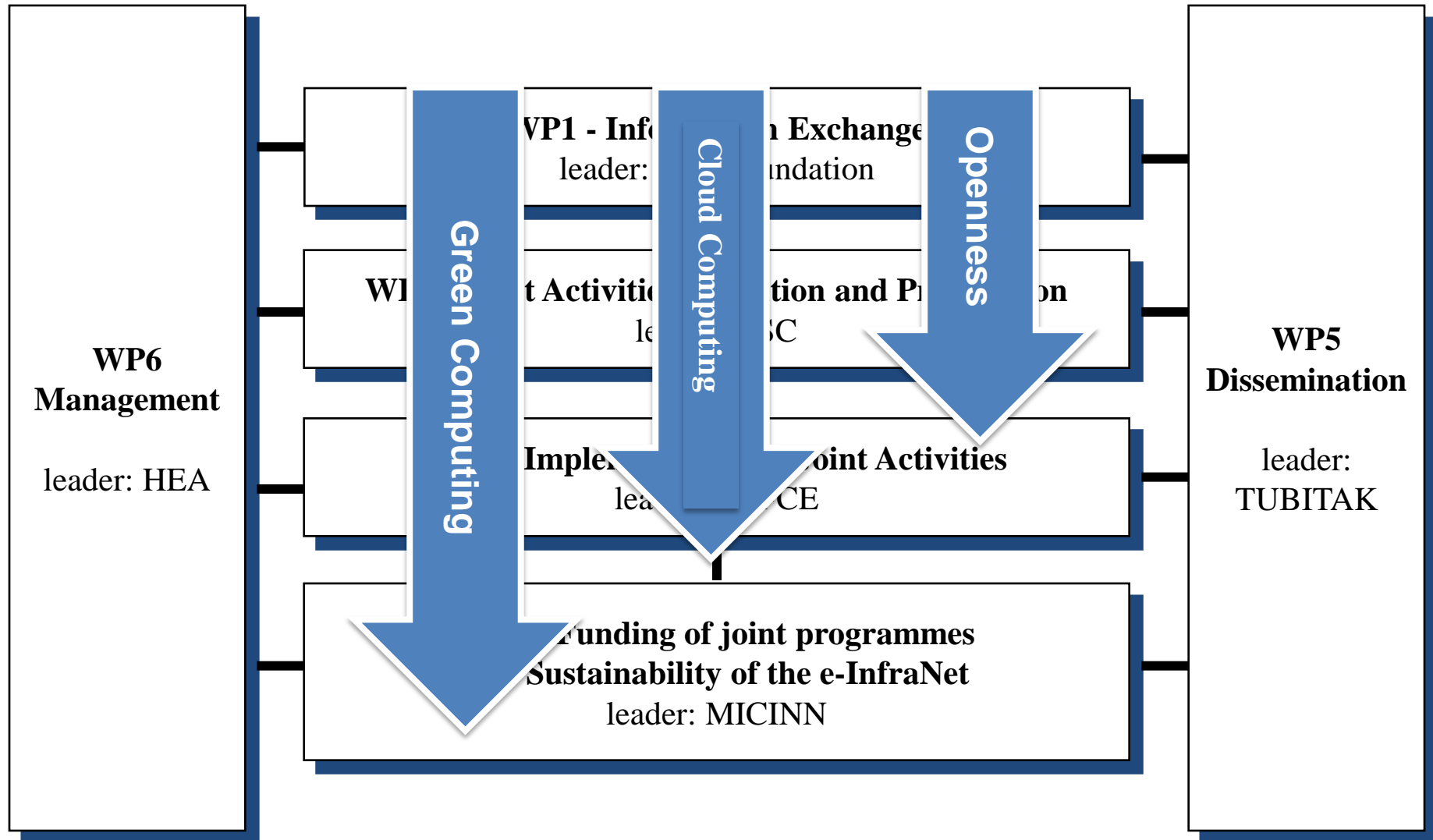
**The aim of e-InfraNet is to develop and strengthen policy cooperation and coordination between national e-infrastructure programmes, ensuring their smooth and efficient integration in the European Research Area.**

- Identify relevant programmes in Europe
- Analyse the programmes and policies
- Provide a platform for debating and exchange of strategic views
- Prepare and implement joint activities, joint programmes and calls
- Support optimal transnational usage of European e-infrastructures
- Support the establishment of an e-infrastructure policy group

- The project was originally established by representatives from ministries and funding agencies in nine countries



Organisation	Country
Higher Education Authority	Ireland
Joint Information Systems Committee	United Kingdom
SURFfoundation	Netherlands
Foundation for Science and Technology	Portugal
Latvian Academy of Sciences	Latvia
Ministry of Science and Innovation	Spain
IT Centre for Science	Finland
National Information Infrastructure	Hungary
The Scientific and Technological Research Council of Turkey	Turkey
Matimop- Israeli Industry Centre for Research and Development	ISRAEL
General Secretariat for Research and Technology	Greece



- urgent need for a common framework quantifying energy efficiency and measuring and evaluating gains
- Cloud Computing offers green opportunities
  - more work and research is needed
- data centers demands need particular focus
- disconnect between the providers and the users of energy
  - A JISC report showed that only 50% of IT directors have knowledge of the IT energy bill and even fewer actually pay it



- The lack of Green ICT skills was identified as a bottleneck when trying to change behaviors and promote Green actions.
- The skills do exist but are not recognized as such and valued in society.
- Green ICT awareness and skills development could be better addressed in education curricula.

**The establishment of a pan-European Green ICT network linking together universities, research and training centres to exchange knowledge, experience and skills in the field of Green ICT, was seen as a viable option to address this issue.**

**“The purpose of the e-InfraNet Green ICT Network is to identify and promote an environmentally sustainable e-infrastructure for research and higher education in the ERA”.**

### ■ Green ICT Policy

- Raise awareness of key issues and propose transnational initiatives
- May 2012

### ■ Green ICT Education

- Why Green ICT? societal, economic and environmental factors
- Knowledge of the technical possibilities to make ICT green-greening of ICT
- Understand the energy economy, where energy comes from, renewable sources
- Measurement of energy consumption-metrics, economics and econometrics
- Legal Frameworks and ethics
- Case Histories/Practice
- March 2012

### ■ Green ICT Portal

- Extensions to the elnfaNet website
- Collation of materials for both novices and experienced practitioners
- Forum and blogging tool
- End of 2011



- **Objective:** identify key national and EU collaboration possibilities for more effective use of the Cloud across the ERA. Explore how to best organise this collaboration



- **Participant preparations:** Position papers
- **Target groups:** researchers, funders, policy makers, industry
- **Key topics:** *cloud economics and full costs, environmental implications of cloud computing, implications for funders, the role of cloud as part of a rich ecosystem of provision, likely longevity and maturity of cloud technology, possibilities for transnational collaboration, the legal framework, the emerging EU strategy on cloud*
- **Conclusions:** Three identified directions...

- **Cloud brokerage:** the need to provide support services to the research community to enable them to take advantage of Cloud solutions
- **Cloud economics:** the need for a comprehensive, clear and convincing study of the full economic and environmental costs, benefits and risks of cloud computing
- **Horizon scanning:** the need for continued international horizon scanning of the cloud field and intelligence briefings for funders and researchers

- 27th and 28th of October 2011 in the Netherlands.
- To stimulate debate around the benefits and challenges of “Open Research and Higher Education” (encompassing Open Access, open data, open source, open borders, open science, etc. )
  - Why is it of benefit to the research and higher education communities to adopt a more ‘Open approach’ in research and education?
  - What are the implications (e.g. political, organizational, legal) of a more open approach for a (sustainable) e-Infrastructure?
  - How can academics from different disciplinary backgrounds learn from each other in developing a coherent vision for (the progress of) the Open agenda?

### Website

<http://www.e-infranet.eu>

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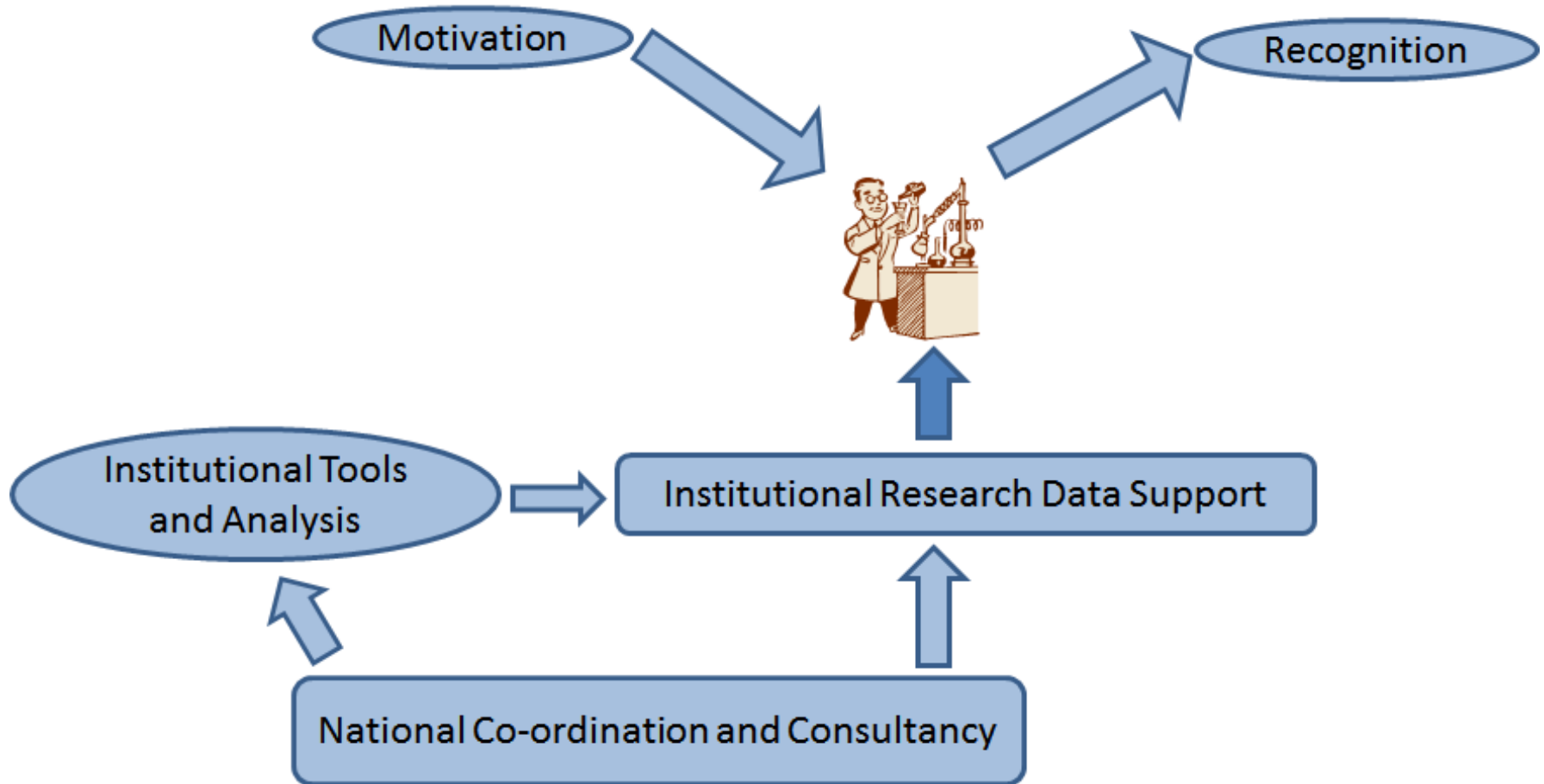


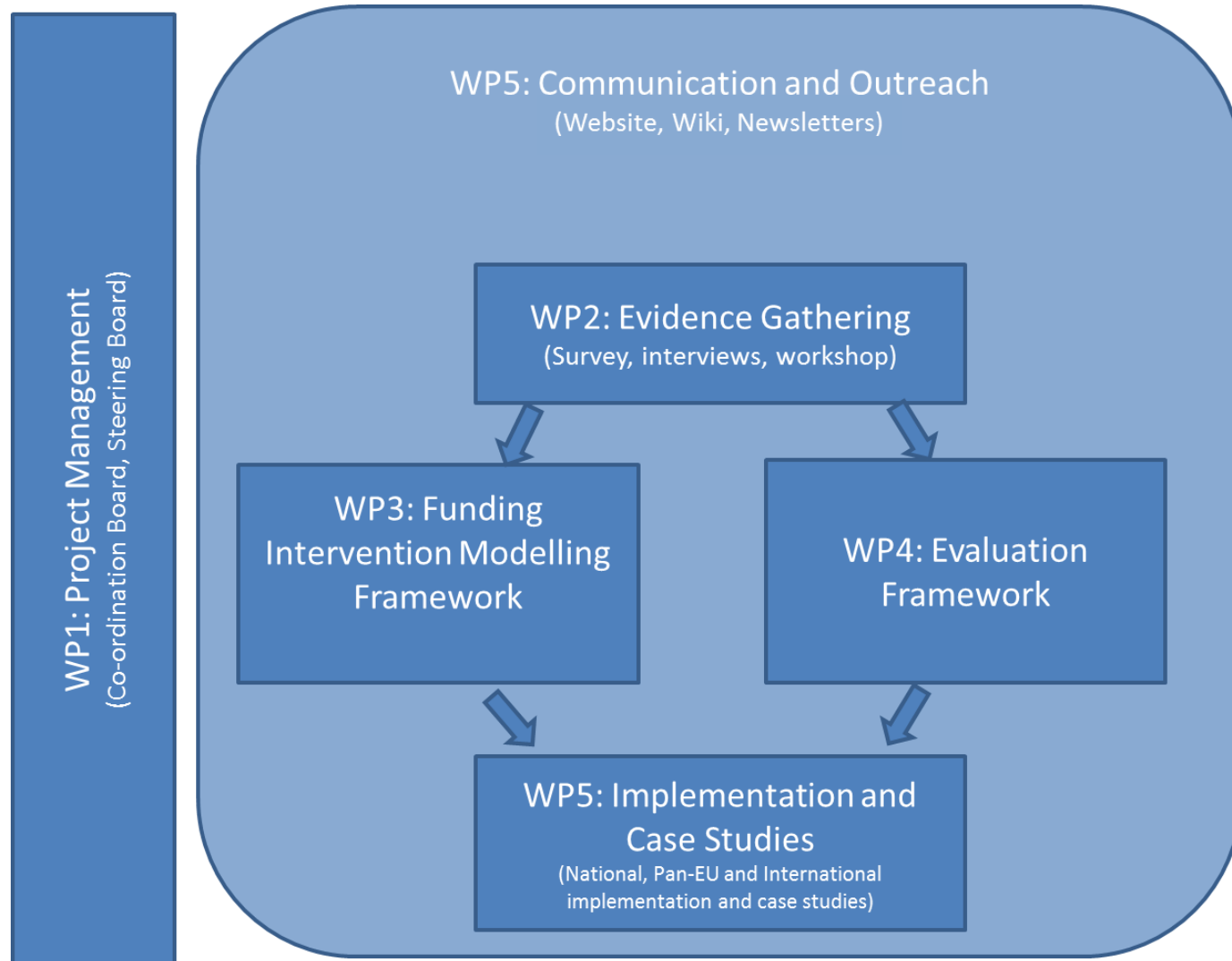
## **SIM4RDM ERANET**

**October 2011 – September 2013**

- Support Infrastructure Models for Research Data Management
- “to enable researchers to utilise effectively the emerging data infrastructures by ensuring that they have the knowledge, skills and support infrastructures necessary to adopt good research data management methodologies. SIM4RDM will achieve this by analysing existing funding programme interventions within member states and internationally, and producing models, evaluation frameworks and policy recommendations for both future national interventions as well as pan-European and International co-ordination”

	Organisation	Country
	Joint Information Systems Committee	United Kingdom
	Higher Education Authority	Ireland
	SURFfoundation	Netherlands
	National Information Infrastructure	Hungary
	IT Center for Science	Finland
	NordForsk	Norway





### **Website**

*Coming soon*

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