

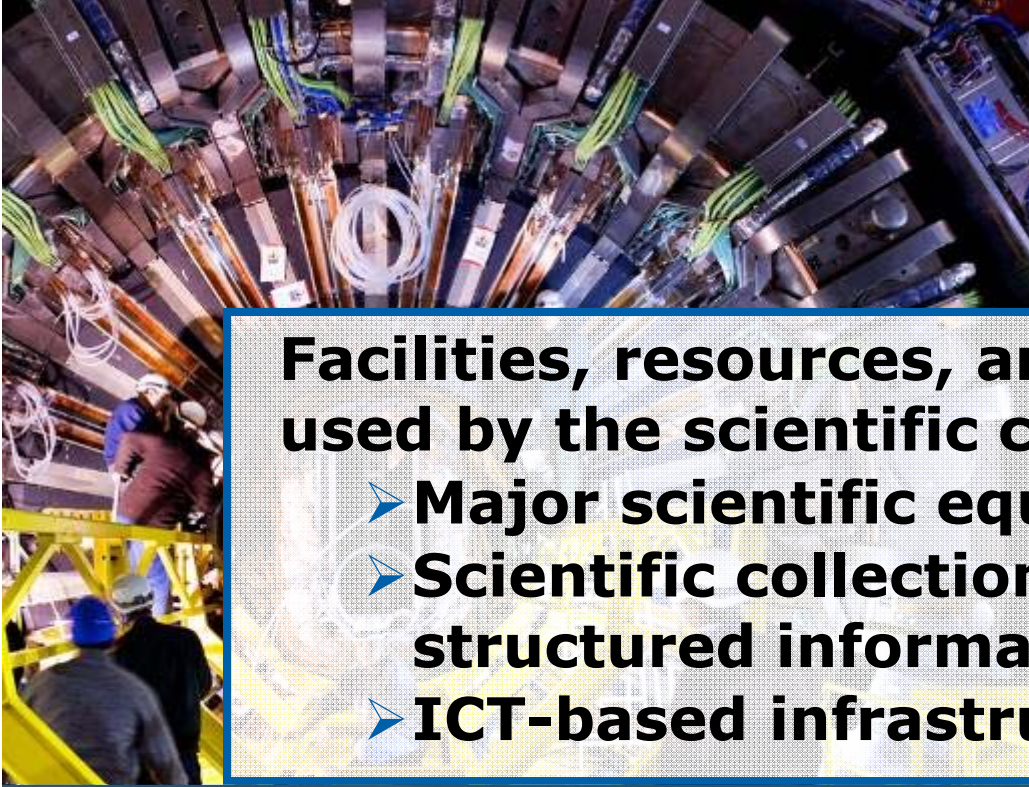


Research Infrastructures in the European Research Area

29 March 2012

EMBRC: The potential role of regions

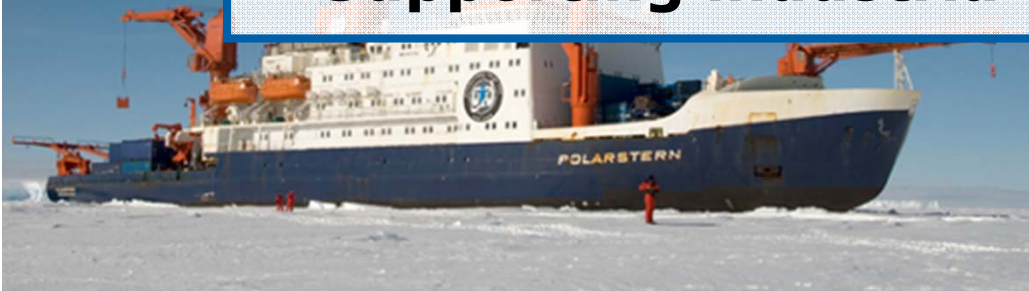
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Facilities, resources, and related services used by the scientific community

- Major scientific equipment
- Scientific collections, archives and structured information
- ICT-based infrastructures

- Extending the frontiers of knowledge
- Exchanging and transmitting knowledge
- Training the next generation of top researchers
- Supporting industrial innovation

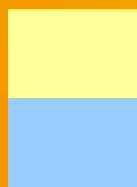


ESFRI – European Strategy Forum on Research Infrastructures

- **Set up by the EU Council of Research Ministers in 2002**
- **Brings together representatives of Ministers of the 27 Member States, 10 Associated States, and of the European Commission**
- **Supports a coherent and strategy-led approach to policy making on Research Infrastructures**
- **Mandate to develop a Roadmap (2006) and its updates (2008, 2010)**
 - **Contains 48 projects**
 - **Requiring major financial investment (~20 b€) and long term commitment for operation (~2 b€/year)**

ESFRI Roadmap 2010

Social Sc. & Hum. (5)	Life Sciences (13)		Environmental Sciences (9)		Energy (7)	Material and Analytical Facilities (6)	Physics and Astronomy (10)		e-Infra-structures (1)
SHARE	BBMRI	ELIXIR	ICOS	EURO-ARGO	ECCSEL	EUROFEL	ELI	TIARA*	PRACE
European Social Survey	ECRIN	INFRA FRONTIER	LIFEWATCH	IAGOS	Windscanner	EMFL	SPIRAL2	CTA	
CESSDA	INSTRUCT	EATRIS	EMS	EPOS	EU-SOLARIS	European XFEL	E-ELT	SKA	
CLARIN	EU-OPENSREEN	EMBRC	SIAEOS	EISCAT_3D	JHR	ESRF Upgrade	KM3NeT	FAIR	
DARIAH	Euro BioImaging	ERINHA BSL4 Lab		COPAL	IFMIF	NEUTRON ESS	SLHC-PP*	ILC-HIGRADE*	
	ISBE	MIRRI			HiPER	ILL20/20 Upgrade			
	ANAEE				MYRRHA				



Distributed research infrastructures

Single sited research infrastructures



Implementation

«A combination of resources from national budgets, Community programmes, EIB instruments and structural funds should lead to the development of excellent research infrastructures throughout Europe»

Competitiveness (Internal Market, Industry and Research) Council of March 5-6, 2009



Research Infrastructures under H2020

- **4.1. Developing the European research infrastructures for 2020 and beyond**
 - **4.1.1. Developing new world-class research infrastructures**
 - **4.1.2. Integrating and opening existing national research infrastructures of pan-European interest**
 - **4.1.3. Development, deployment and operation of ICT-based e-infrastructures**
- **4.2. Fostering the innovation potential of research infrastructures and their human capital**
- **4.3. Reinforcing European research infrastructure policy and international cooperation**



Research Infrastructures - From FP7 to Horizon 2020

- **An increased budget, from 1715 M€ (FP7) to 2478 M€ (Horizon 2020 – constant 2011 prices)**
- **New activities to support the implementation and operation of world-class infrastructures such as ESFRI infrastructures**
- **Continuation of the successful FP7 Integrating Activities**
- **Reinforcement of the support to e-infrastructures**
- **New objective of better exploiting the innovation potential and human capital of infrastructures**

For further information

- **Europe 2020**
<http://ec.europa.eu/eu2020>
- **Innovation Union**
<http://ec.europa.eu/research/innovation-union>
- **Horizon 2020**
<http://ec.europa.eu/research/horizon2020>
- **FP7**
<http://cordis.europa.eu/fp7/>
- **EC Research Infrastructures and ESFRI**
<http://ec.europa.eu/research/infrastructures>
- **EC Regional Policy**
http://ec.europa.eu/regional_policy

