Macro-Regional Innovation Week

At the crossroads of three European Macro-Regions: Danube, Adriatic-Ionian and Alpine Regions

M. Cristina Pedicchio
OGS President
OGS – National Institute of Oceanography and Experimental Geophysics

OGS’ roots date back to the School of Astronomy and Navigation founded in Trieste by empress Maria Theresa of Austria in 1753.
OGS Priority:
Research Infrastructures
Opening research infrastructures to industry
ESFRI Research Infrastructures (European)

- **Euroargo** – Infrastructure for climate change research and operational Oceanography (floats, gliders...) **Eric signed in 2014**

- **Eccsel** – European Carbon Dioxide Capture and Storage Laboratory

- **Prace** – HPC e-infrastructure
12 Countries
25 organisations
250 People

Euro Argo

A new European Research Infrastructure contributing to Argo International Program

[Map of global locations with various colored markers]

[Image of people working on a ship]
ECCSEL Implementation and Operational Phase project consortium

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SINTEF SINTEF ENERGIS AS, Norway

STIFTELSEN SINTEF, Norway

SINTEF PR SINTEF Petroleum Research, Norway

TNO The Netherlands Organization for Applied Scientific Research, Netherlands

CIUDEN Fundación Ciudad de la Energía, Spain

BGUS British Geological Survey, UK

BRGM Bureau de Recherches Géologiques et Minières, France

OGS The National Institute of Oceanography and Applied Geophysics, Italy

SOTACARBO Società Tecnologica Avanzate di Carbone SpA, Italy

CERTH Centre for Research and Technology Hellas, Greece

ETHZ Swiss Federal Institute of Technology Zürich, Switzerland

PGN-NRI Polish Geological Institute – National Research Institute, Poland

GIG Górnny Instytut Górnictwa - Central Mining Institute, Poland

Coordinated by “The Norwegian University of Science and Technology (NTNU)”.
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Enabling low to zero CO₂ emissions from industry and power generation...
to help combating global climate change

Objective is to provide access to a world-class distributed European Research Infrastructure for CCS research, set up around a central hub responsible for the coordinated operation of multiple research facilities operating under a joint hallmark, ECCSEL.

As a response to the global warming challenge, ECCSEL was conceived by ESFRI, the European Strategic Forum for Research Infrastructures, and it was recommended for inclusion in the Work Programme of the European Commission (2008). Supported by the European Commission's FP7 Infrastructures Programme, and coordinated by the Norwegian University of Science and Technology (NTNU), ECCSEL has been planned by a consortium comprising leading European CCS research institutions during the preparatory phases. In 2015 ECCSEL entered its implementation phase and will be supported by EU’s Horizon 2020 Programme.

New techniques and concepts are needed to improve the efficacy of CCS as a climate mitigation option. As CCS projects are expected to increase significantly in number and size, it is essential to reduce capital investments and operational costs, and to proof safety and environmental integrity.
OGS -RI and public - private partnership

DIAMAR S.p.a.
MEDEA srl
Fugro Oceansismica S.p.A
GeoTeam S.r.L.
Mediterranean Survey And Service (MSS) S.p.A
EUROTECH
BGR - Bundesanstalt für Geowissenschaften und Rohstoffe, Germania
OMV Aktiengesellschaft (oil end gas), Austria
EXXON (oil and gas), USA
TOTAL (oil and gas), Francia
ALCATEL LUCENT, Francia
NKE, Francia
Metocean, Canada
Webb Teledyne, USA
Konsberg, Norvegia
Aanderaa, Norvegia
Sea-Bird, USA
Konsberg-contros, Germania
We need a new approach to train human resources with inter/cross/multi-disciplinary skills.

- skills based on the occupational needs
- attraction and circulation of talents
- international mobility
- more public-private mobility

RI as optimal places for international training!!
The knowledge-based economy is effectively stimulated by strengthening the links between RIs, higher education and research institutions with economic players like industry, services and utilities.

The internationally competitive environment and the continuous turnover of visitors and users at RIs create a unique training potential for young researchers, technicians, managers and advanced technology developers.
Thank you for your attention!

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