

# EERA

## Implementing joint programmes under the SET-Plan

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AND



P2P – Annual Joint Programming Event, Brussels 9-10 November 2011

## EERA and the SET Plan

ü The SET Plan is the technology pillar of the EU's energy and climate policy

- Adopted in 2008

ü A Comprehensive approach

- Develop a common vision
- Group EU efforts to address technological challenges needed at horizon 2020 and 2050

ü Implementation

- European Industrial Initiatives (7+2)
- European Energy Research Alliance

ü Financing

- X 2.5 over 2010-2020 ( +50 Billion €)

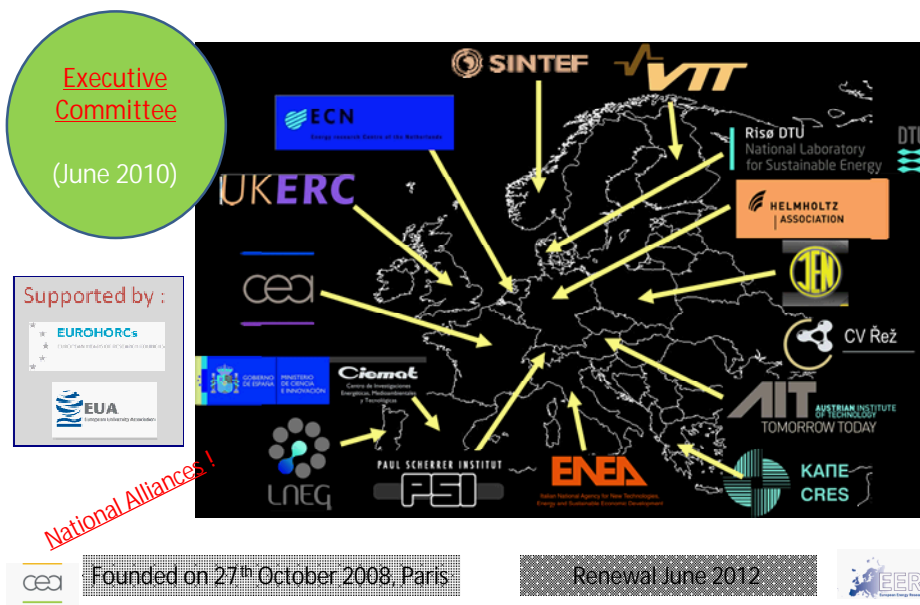


# What EERA is

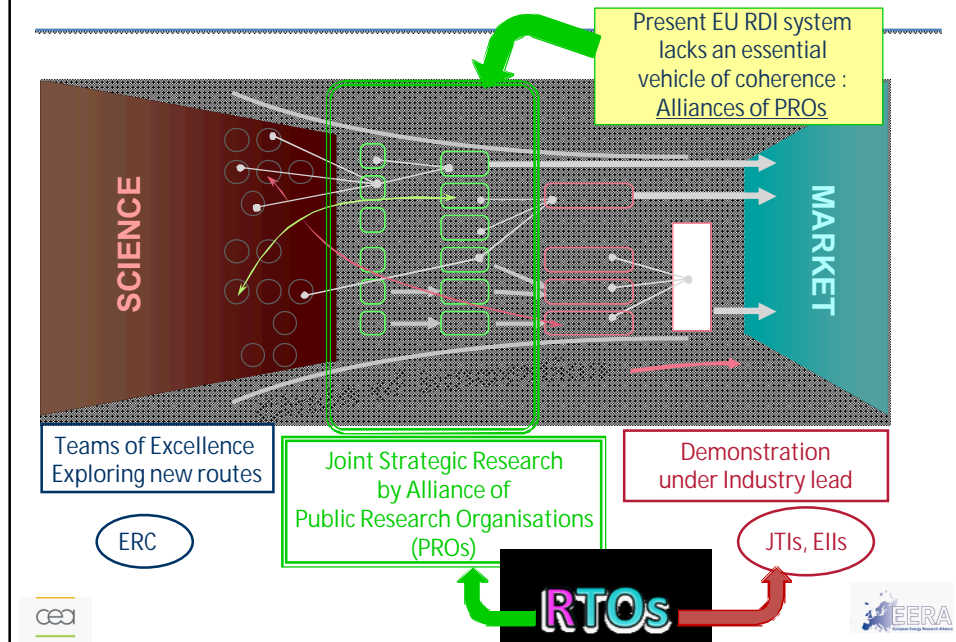
- ü An Alliance of National Research Institutes
- ü A Governance structure
- ü A port-folio of specific Joint Programmes



# An RTO initiative, under the SET-Plan umbrella



## PROs Alliance specific role in the innovation chain



## Organisation of central activities

- Governance
  - Executive Committee
  - Chair
  - Secretariat (ERASE FP7 Project)
  - Membership : Partners & JPs Participants (> 5 py/y) & JPs Associates
  - Coordination of JP Coordinators
- Common Policies
  - EERA General doctrine
  - JPs selection and launching procedure
  - Communication : [www.eera-set.eu](http://www.eera-set.eu)
  - IP rules
  - Evaluation
  - International cooperation
- Annual Congress and General Assembly

## JPs Portfolio\*

- 9 Joint programs launched
  - Photovoltaics ~ 100 professionals
  - Wind Energy ~ 125 professionals
  - Geothermal Energy ~ 300 professionals
  - Smart Grids ~ 100 professionals
  - Nuclear Materials ~ 140 professionals
  - CCS ~ 270 professionals
  - Bioenergy ~ 100 professionals
  - Marine Energy ~ 40 professionals
  - Concentrated Solar Power(CSP) ~ 80 professionals
- Further Joint programs under preparation
  - Smart Cities,
  - Energy storage,
  - Advanced Materials and Processes for Energy Applications (AMPEA)
  - Fuel cells and Hydrogen Technologies

June 2010

November 2010

April 2011

Ø About 120 Participating Institutes  
Ø More than 2000 professionals f.i.e  
Ø Critical mass and timeliness demonstrated

**JUST NOT A CLOSED CLUB !**



\* As by October 2011



## Consolidate EERA in Horizon 2020

- ü A high potential to further reveal and consolidate
- ü Financial support
- ü Specific instruments
- ü Embed EERA within a general EU Energy technology scheme



## A high potential to further reveal and consolidate

- Networking of Alliance CEOs and Research Programme Managers
- Reciprocal opening and sharing of large parts of national / regional programmes
- Coordinated EU strategy for research infrastructures and test facilities
- Accelerate research over a broader scale (critical mass/ critical involvement of partners)
- Call for projects is not the single way for collaborative research
- Core JPs open to access ('associated participants')
- Exchange of researchers and research technical staff
- Joint European teams/labs/Institutes can be foreseen
- Natural convergence between large parts of national R&I policies

Ø Strong EU added value

Ø Up to now, based on 'own RTO money'

Ø **NEED FOR A DEDICATED EC FUNDING**



**A SECOND PHASE OF EERA**



## Financial Support

*Public Co-financing*

- Joint Programmes activities partly supported through national/regional financing
- Competition with industrial led projects
- Cf. N.ERGHY Research Grouping and the FCH JTI
- Financing communication : an estimate of 5 Billion € for EERA activities over 2010-2020
- WP 2013 under preparation
- Integration of EERA in/as a Community body can serve as a vehicle for implementing part of the SET Plan activities in the context of Horizon 2020 under the Societal Challenge 'Secure, clean and efficient energy'



## Strategic Research Programming

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- Characteristics of European Mission-oriented RTOs
  - ‘champions’ carrying out parts of national or regional MS RDI-programmes
  - Innovation and business creation
  - Focussed on specific strategic topics (energy, health, transport, agriculture, etc.)
  - Critical mass, specific interdisciplinary skills, infrastructures, timeliness concern
  - High involvement in R&D FPs (support to industry, projects leadership)
- How to expand this role at EU, continental, level ?



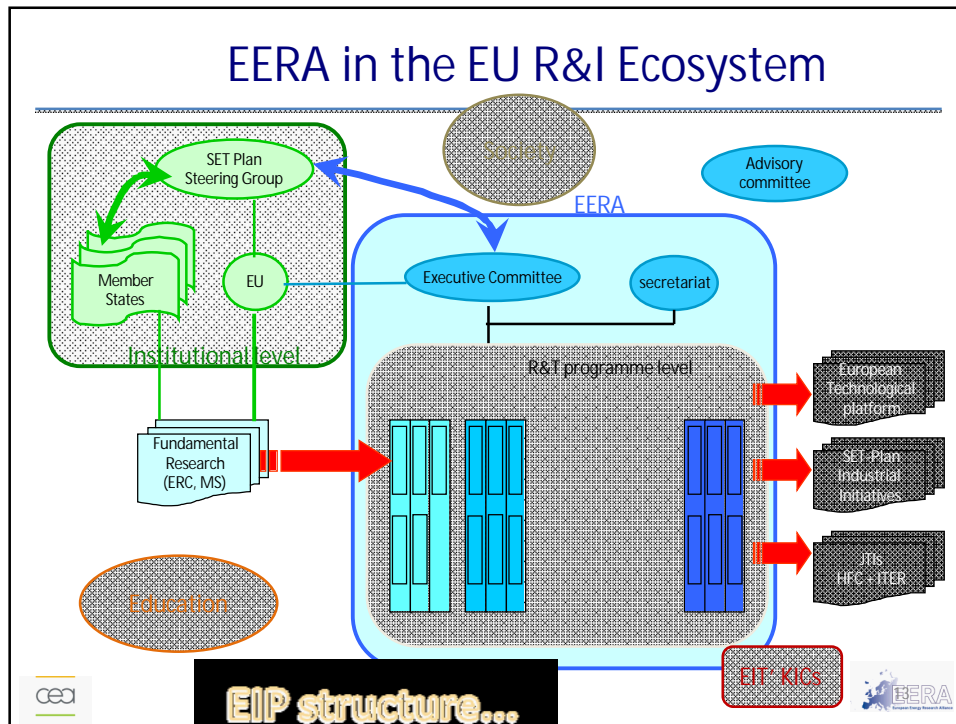
## How to proceed further ?

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*EERA Business model*

- Decisional process at MS and EC levels
  - RTOs are in charge of Implementing MS R&I Programmes
  - Need to distinguish orientation/ programming/ implementation/ execution levels
  - Different decisional chains in different MS
  - Mission-oriented RTOs , through their alliance, make it simpler to coordinate and harmonise programme implementation at EU level
- Institutional options
  - EC tools miss to coordinate the programme implementation level
  - Project/ERANET /Art.185
  - Need for an instrument dedicated to Public Research Alliances
  - Evolution of existing instruments rather than creating new ones: existing instruments (ERANET, Art.185) should become eligible to Alliance of National Research Institutes





## Conclusions

### 3 Recommendations

- Ensure public-public co-financing of JP activities together with a community contribution
- Make existing instruments like ERANETs and Art. 185, eligible to Alliances of National/Regional Research Institutes
- Provide a forum where all actors of a Societal Challenge (institutions, public and private research, education, innovation and transfer structures,...) can exchange and coordinate while keeping up their specific role.