



EERA Joint Program

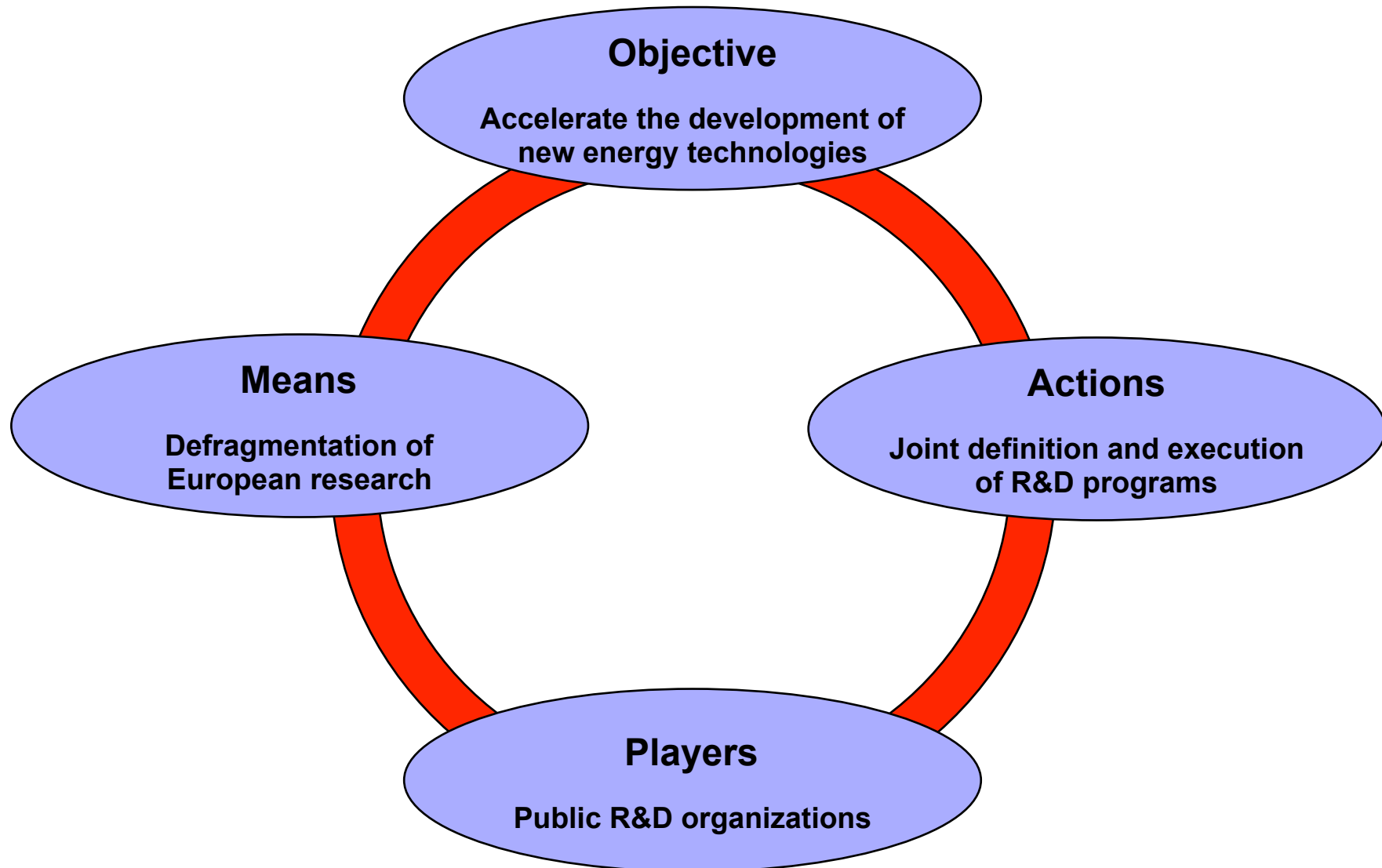
Carbon capture and storage

Andreas Ehinger

Joint Program Coordinator, IFP

www.eera-set.eu

European Energy Research Alliance





EERA - Objective

- Europe is firmly engaged in combating climate change
- Ambitious 20-20-20 goal for 2020
- Need to accelerate the development of new energy technologies
- Strategic Energy Technologies (SET) Plan
 - European Commission + Member States
 - join and coordinate forces
 - European Energy Research Alliance (EERA)
 - European Industrial Initiatives (EII)
 - Strategic Energy Technologies Information System (SETIS)

EERA – Means

- Europe's R&D is fragmented (EU, national, regional)
 - in terms of planning / programming
 - in terms of funding
 - Increase global European R&D efficiency by
 - coordination of national efforts
 - coordination of national and EU efforts
 - coordination of public R&D organisations → EERA
 - coordination of public and private R&D
- Defragment European research: joint programming

EERA – Actors

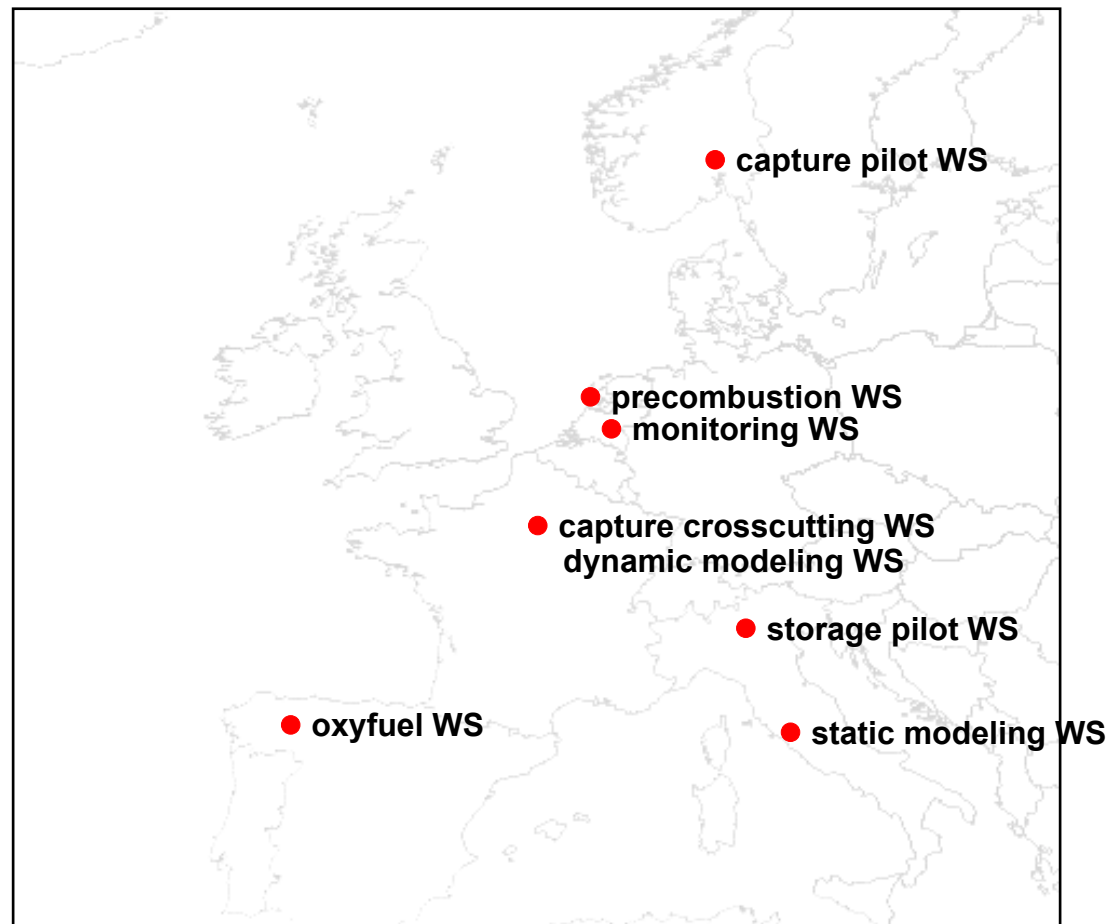
- EERA founded in 2008 by 10 leading European energy research organisations
- In principle, any public research organisation can join EERA ...
- ... provided it brings a relevant contribution to an EERA Joint Programme
- EERA is not a "club", a platform or a network, but it brings together actors that agree on working together to achieve a goal
- EERA is not a body of the European Commission, but it is an instrument of joint programming based on own funding (member states)

- Setting-up R&D programs
 - mid- to long-term R&D objectives
 - work plan for next 4 years
 - commitments (HR), milestones, deliverables
 - links to other initiatives (TPs, EII, ...)
- Designing and running projects
 - variable consortium configurations
 - variable funding schemes (own resources, FP7, nat. programs, ...)
 - IPR rules: base case like for FP7

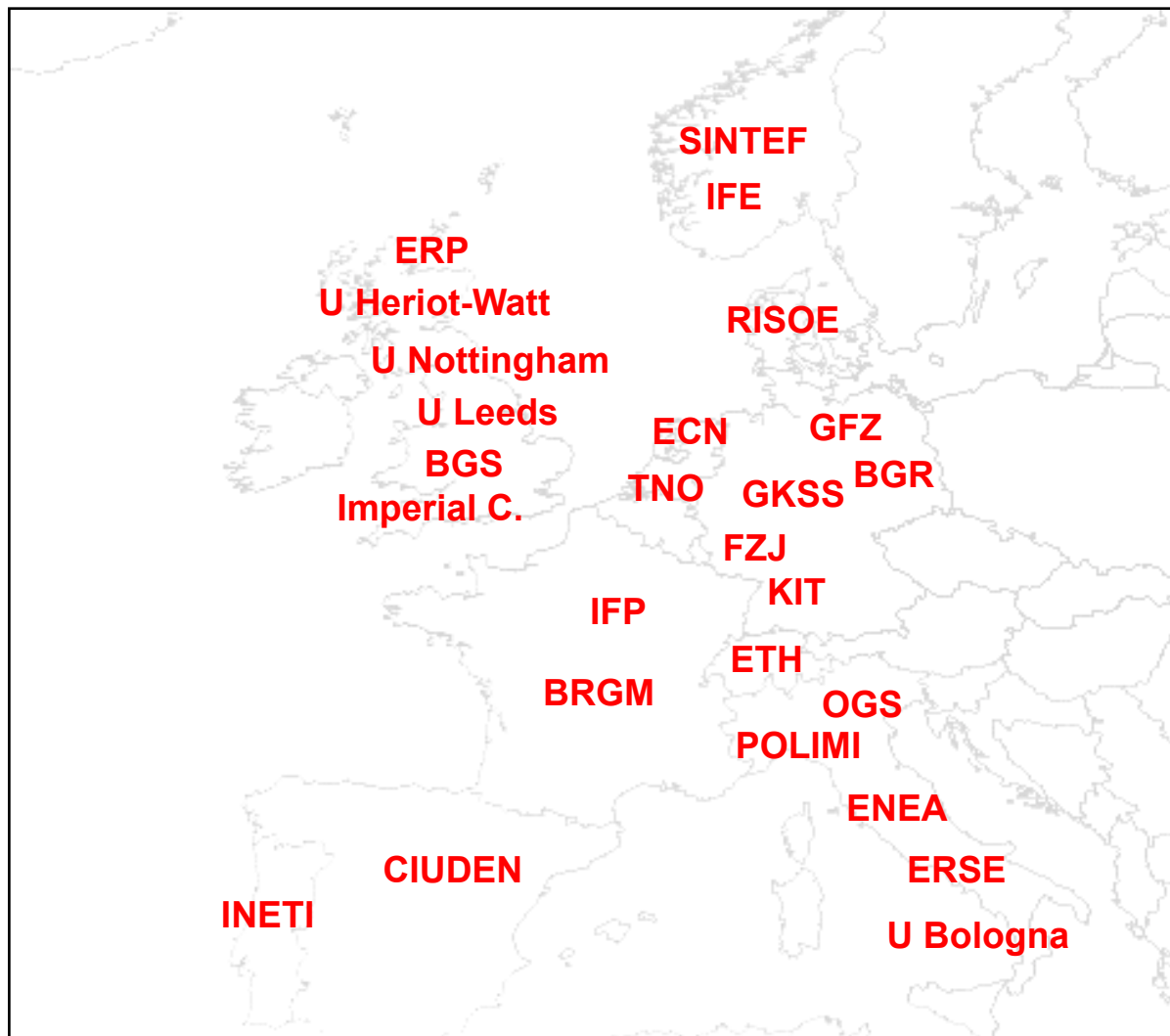
EERA Joint Programmes

- First Joint Programmes have been launched early 2010
 - PV: \approx 1000 person months / year (pm/y)
 - Wind: \approx 1500 pm/y
 - Geothermal energy: \approx 3000 pm/y
 - Smart Grids: \approx 650 pm/y
- Other programmes will follow (under preparation)
 - Materials for nuclear
 - CCS
 - CSP
 - Bio energy
 - Fuel cells and hydrogen
 - Smart Cities
 - etc.

- EERA CCS activities started in December 2008
- Several topical workshops have been organized



Workshop participants



26 different organisations participated in the 7 workshops organized until now

Observation
EERA founding members involved in CCS ...
... but in general are not key players

R&D program - Structure

- Capture
 - post combustion
 - e.g. solvents
 - pre-combustion
 - e.g. membranes, sorbents
 - oxyfuel
 - e.g. materials
 - cross-cutting issues
 - e.g. process simulation
- Storage
 - static modeling
 - e.g. fracture characterisation
 - dynamic modeling
 - e.g. large scale modeling
 - monitoring
 - e.g. flux measurements
 - remediation (tbd)

➡ R&D program is currently being elaborated

R&D program - Planning

- Writing of sub-programs by small drafting teams
 - to be finalized end of May, early June
- First round of stakeholder input request
 - to be finalized late June
- New version send out to stakeholders early July

- Final consolidation workshop(s) in September
- Final program submitted to EERA ExCo late September / early October

- Official launch of EERA CCS program in fall 2010



CCS Joint Program

Thank you for your attention

Andreas Ehinger
andreas.ehinger@ifp.fr