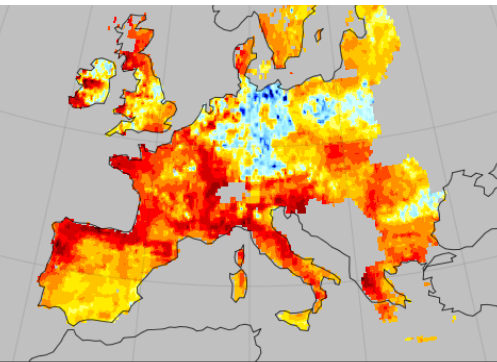
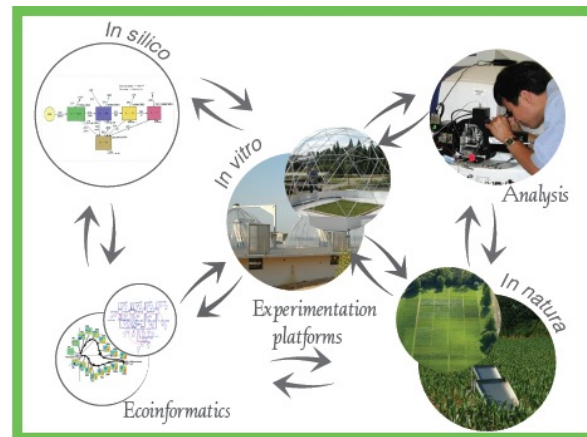
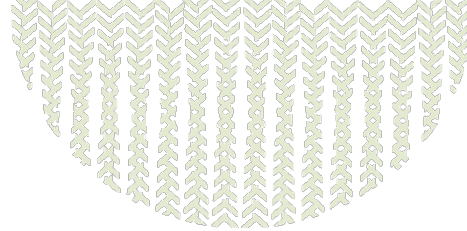


Analysis and Experimentation on Ecosystems: A distributed research infrastructure to forecast ecosystem responses to disturbance

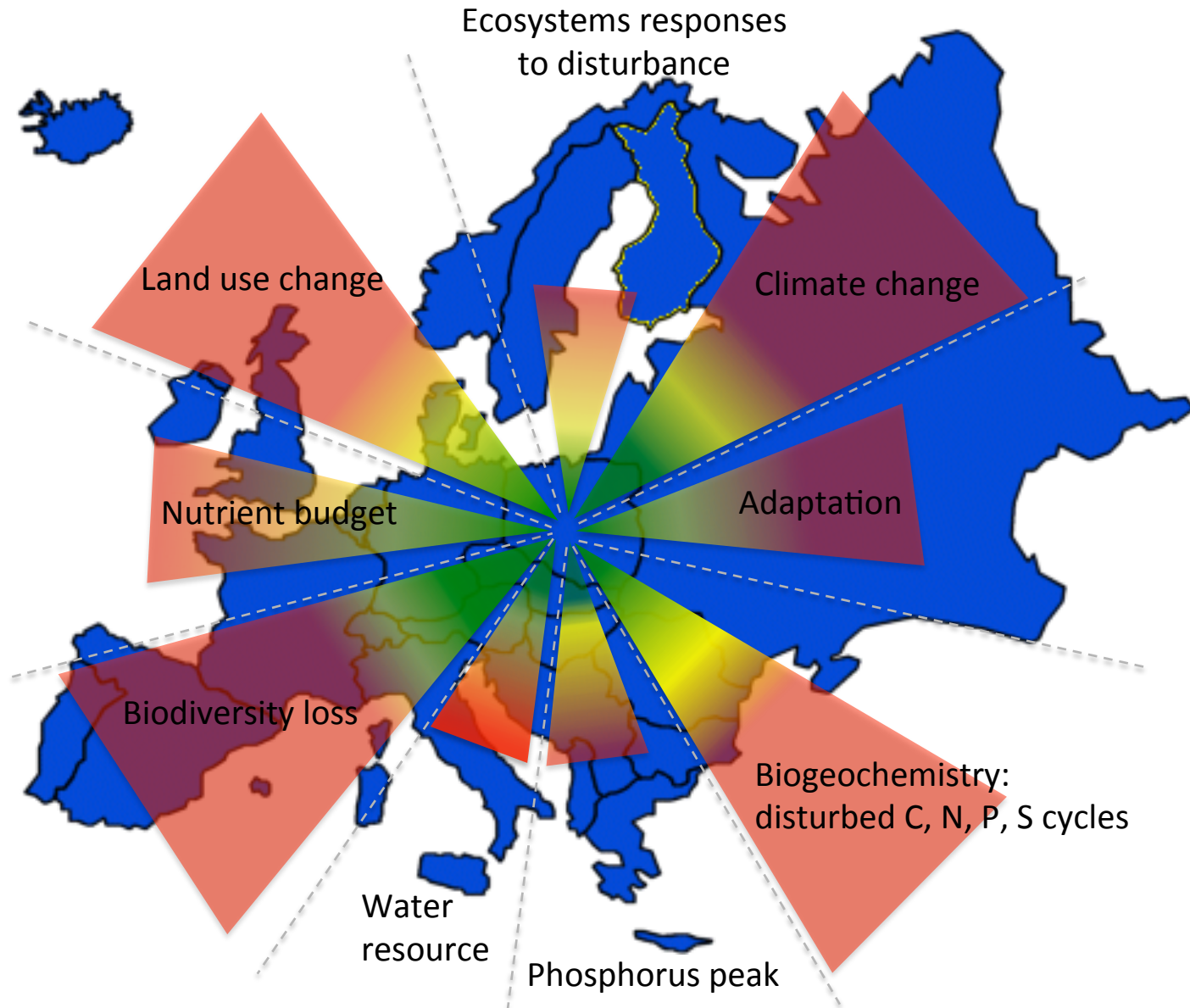


Project coordinator : **Dr. Abad Chabbi (INRA, France)**

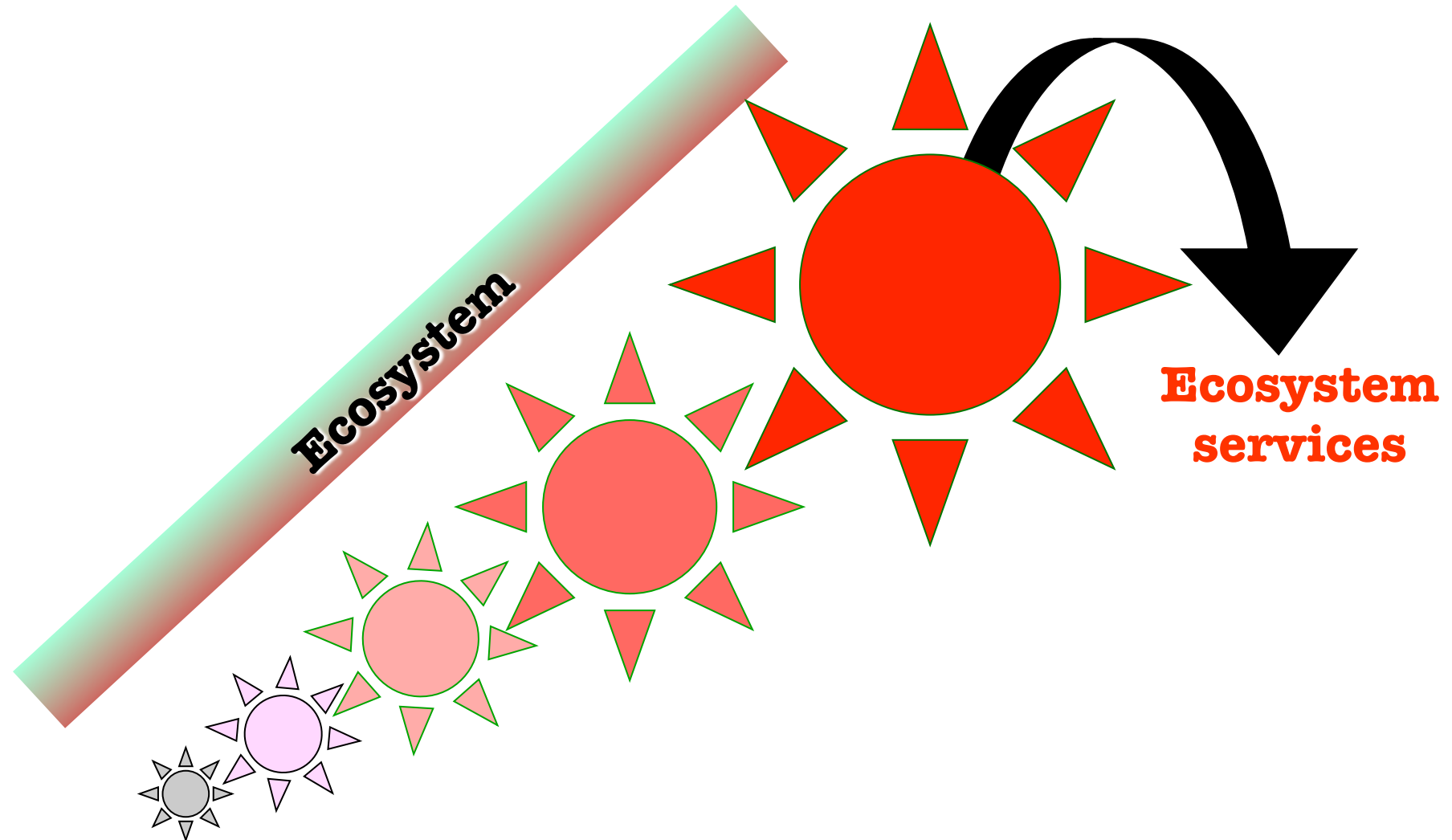


Addressing key scientific & societal challenges

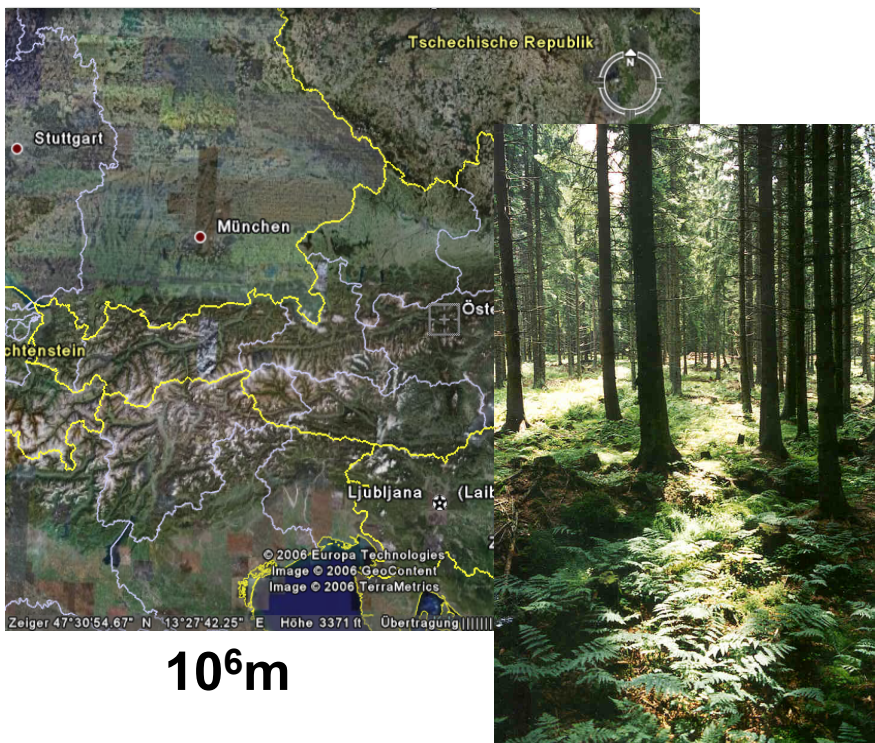
Challenges facing Europe-coming up



Ecosystem responses to disturbance: Detecting early warning



Questions in ecosystem research – matter of scales



10^6m

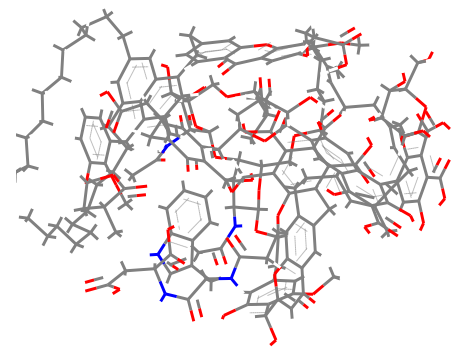
10^2m



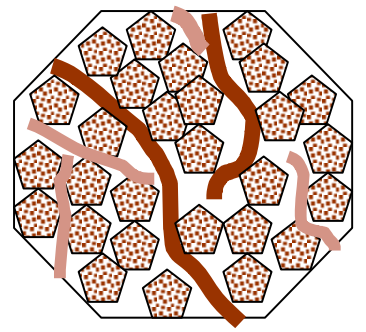
10^0m



10^{-1}m



10^{-9}m



10^{-4}m



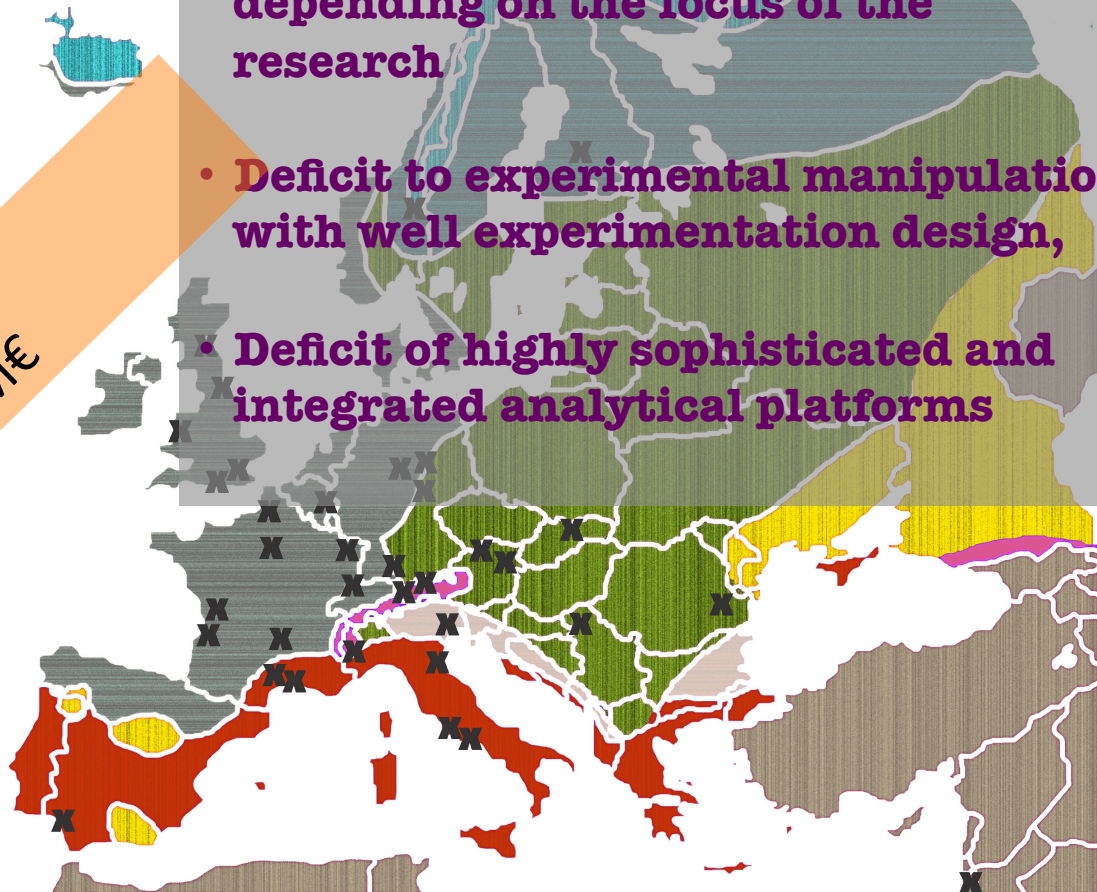
Project Coordination
Dr. Abad Chabbi

ExpeER Experiments
in Ecosystem Research



ExpeER brings together, for the first time, existing European infrastructures in the field of ecosystem research capacity and to encourage their wider use.

- Large disparity across sites depending on the focus of the research
- Deficit to experimental manipulation with well experimentation design,
- Deficit of highly sophisticated and integrated analytical platforms



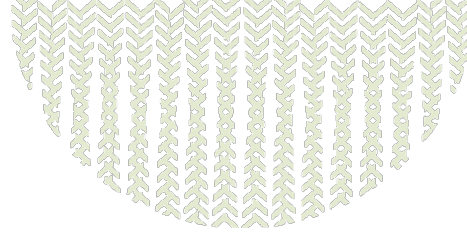
20 countries, 37 partners,
EC contribution of 7.4 M€

Current situation



Problems

- Research gaps
- Research duplication
- Insufficient critical mass
- Lack of multidisciplinary: separate processes
- Lack of standardization
- Lack of technology exchange
- Lack of analytical capacity
- Insufficient linkage of data and models
- Limited stakeholder involvement
-



What is ANAEE?

A distributed experimental infrastructure for enabling ecosystem research

➤ A coordinated set of experimental platforms across Europe to **analyse, test** and **forecast** the response of ecosystems to environmental and land use changes.

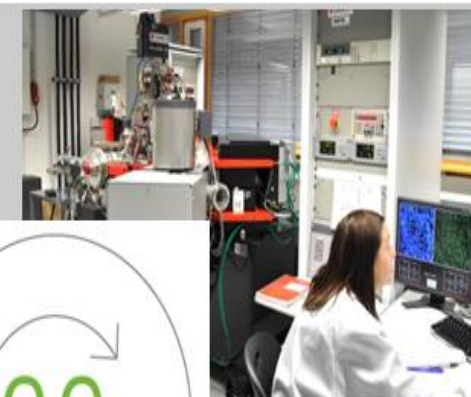
➤ ANAEE will be **the key instrument** for carrying out terrestrial ecosystem research within the European Research Area.

➤ AnaEE operating as a research infrastructure **allows the creation of AnaEE National Clusters or nodes** will provide access to key technologies and data to their communities and across the entire AnaEE infrastructure

**In natura
experimentation**



**Bench analytical
platforms**



**Modeling
platform**



**In vitro
experimentation**

AnaEE approach



"2020 VISION"
FOR THE EUROPEAN RESEARCH AREA

Drivers

Grand Challenges

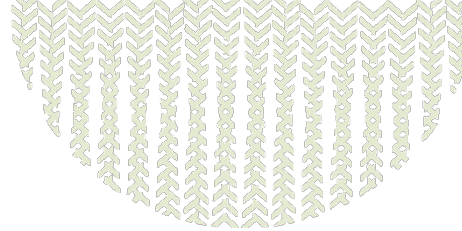
Responses

Preparing for change
and planning for future uncertainty...

Distributed & Integrated infrastructures

Data integration

Ability to forecast precisely in advance responses

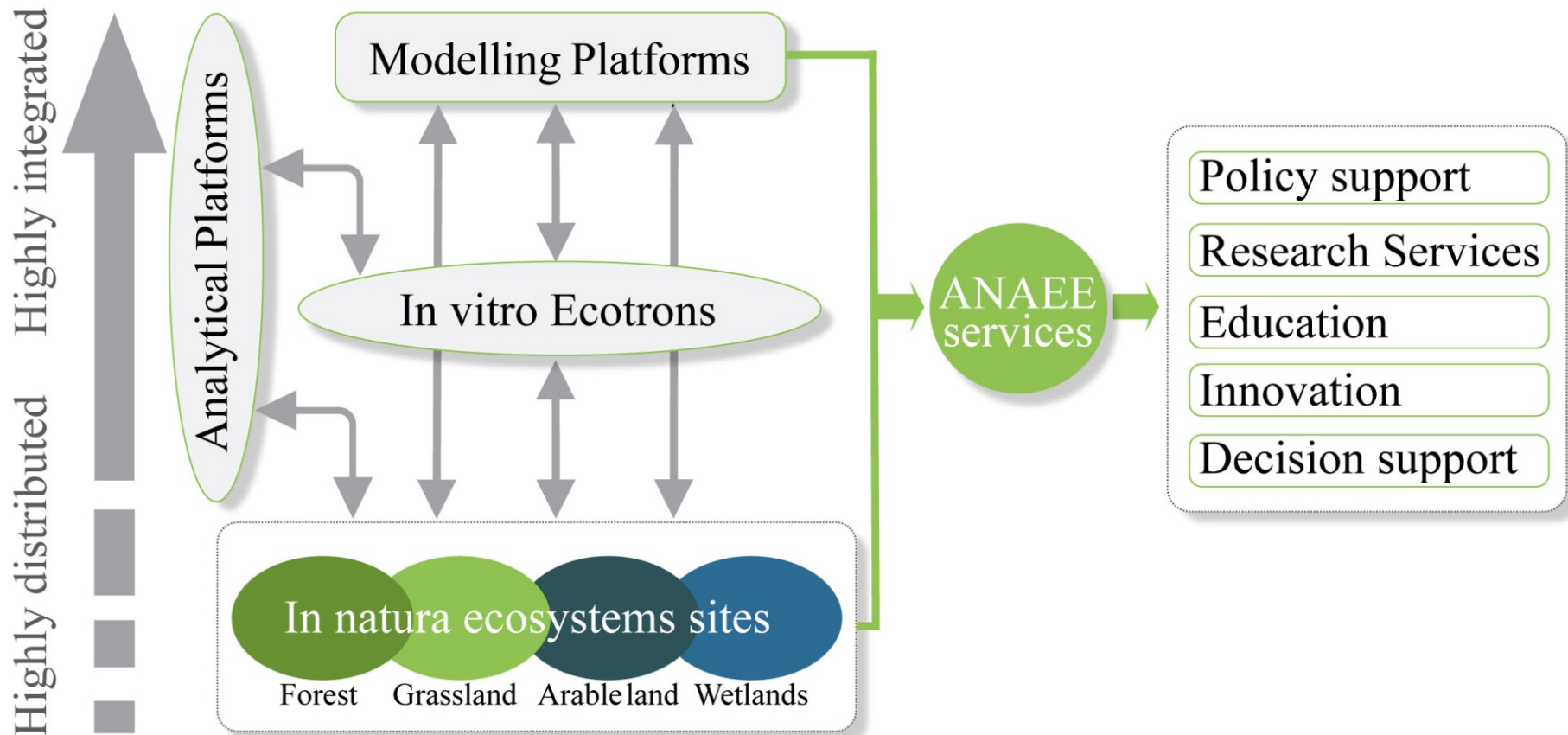


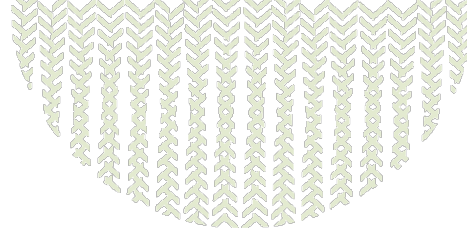
N°	Participant Organisation Name	Short name	Country
1.	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE	INRA	France
2.	BIOTECHNOLOGY & BIOLOGICAL SCIENCES RESEARCH COUNCIL	BBSRC	United kingdom
3.	NORWEGIAN INSTITUTE FOR AGRICULTURAL AND ENVIRONMENTAL RESEARCH	BIOFORSK	Norway
4.	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	CNRS	France
5.	TECHNICAL UNIVERSITY OF DENMARK	DTU	Denmark
6.	ISTANBUL TECHNICAL UNIVERSITY	ITU	Turkey
7.	FONDAZIONE EDMUND MACH	FEM	Italy
8.	CENTRUM VYZKUMU GLOBALNI ZMENY AV ČR VVÚ	CVGZ	Czech Republic
9.	UNIVERSITY OF ANTWERP	UA	Belgium
10.	UNIVERSITY OF HELSINKI	UHEL	Finland
11.	UMEÅ UNIVERSITY	UmU	Sweden
12.	ROTHAMSTEAD RESEARCH	RRes	United Kingdom
13.	INRA TRANSFERT S.A	IT	France

10 countries, 13 partners,
EC contribution of 3.5 M€



ANAEE architecture and services offer

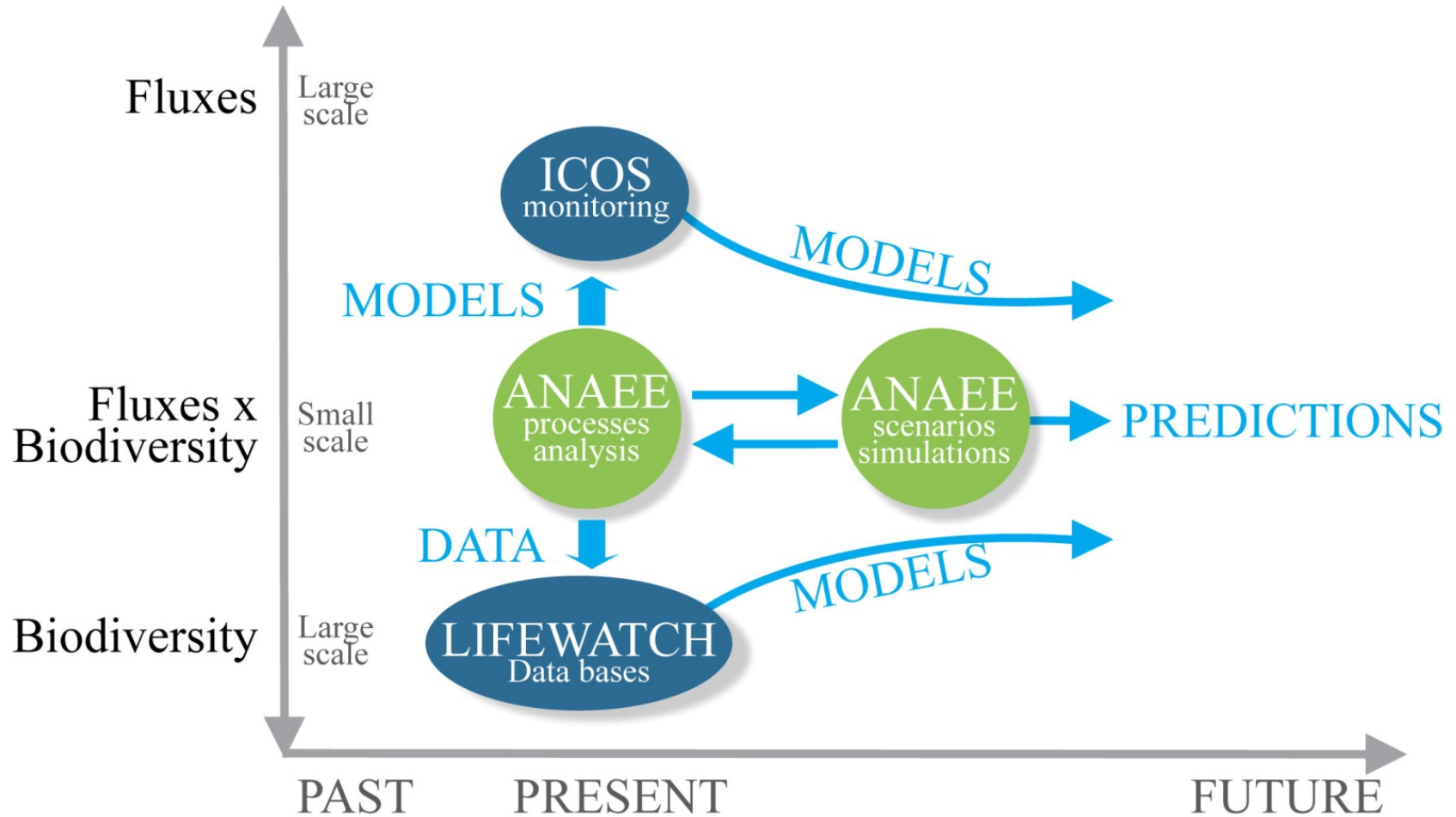




ANAEE:

Links to other Ris

Links to ICOS and Lifewatch

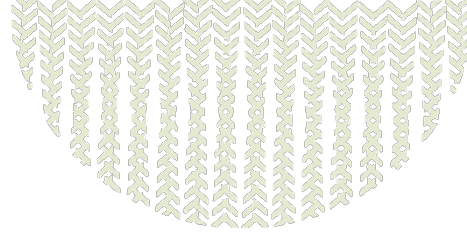


Links with global networks



Potential links with JPI and GEO

- GEO should define their SRA taking into account the potential of ANAEE;
 - ANAEE needs to clearly communicate the services offered and access constraints;
 - GEO could also be a relay for ANAEE at the European and international level.
- ... today will enlighten us further!



Many thanks for your attention!

For more information

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To find out more follow www.anaee.com