

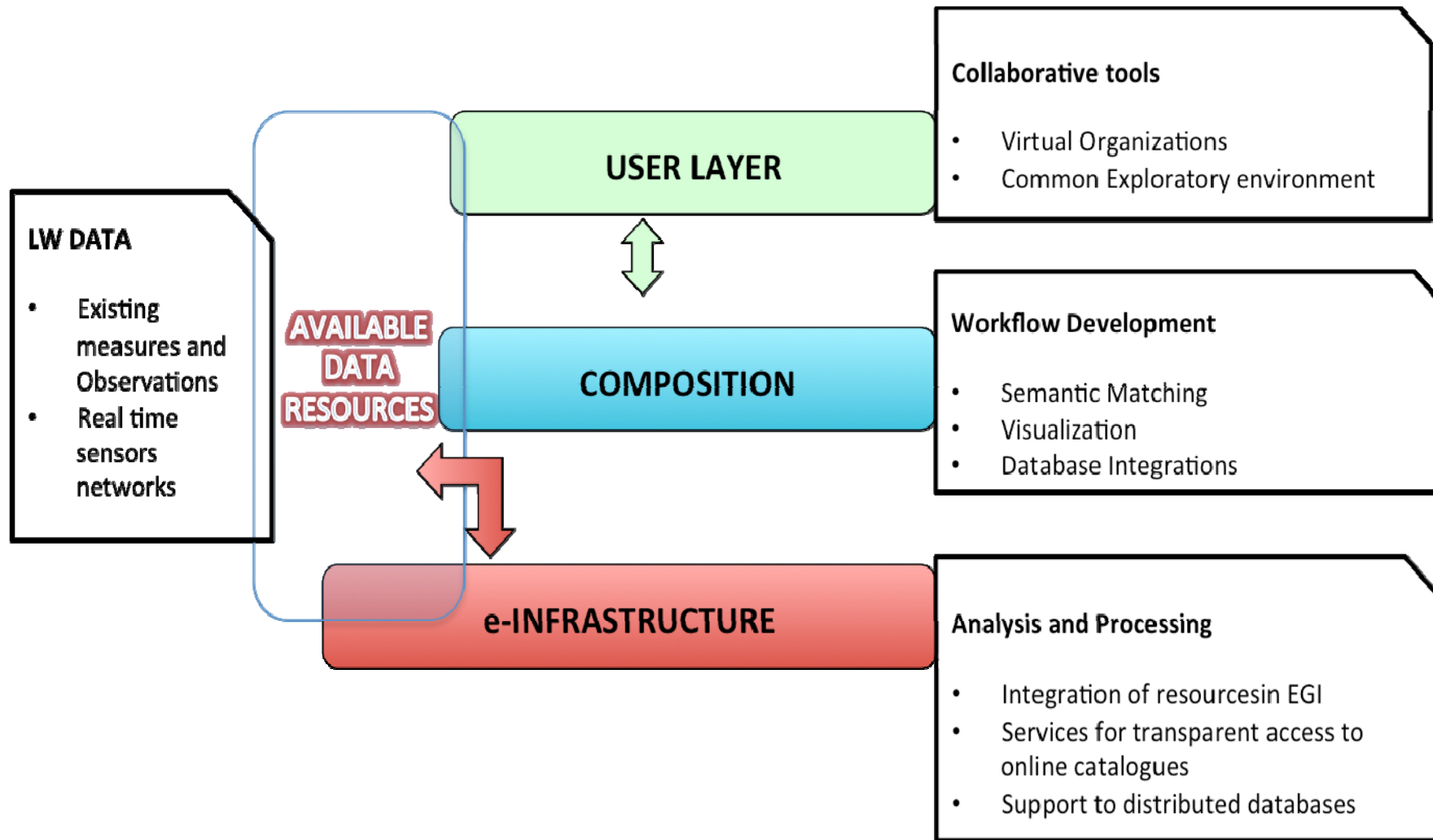
# Towards a Competence Center supporting the LIFEWATCH User Community

- LifeWatch and EGI have collaborated since long time  
**Interest established in LW core-ICT meeting in Granada in February 2014, confirmed in Brussels in May 2014**
- LW will use existing services and promote the integration of the e-Infrastructure in EGI:
  - LW core-ICT team will integrate grid/cloud resources in EGI
  - Pilot activities with EGI support have been started:
    - LW VOMS deployment
    - Exploration of successful examples in EGI FedCloud and in the context of the DCC activity
    - Phenology use case (Univ. of Granada)
    - Several Initiatives on Biodiversity in cooperation with Brazil (EUBrazilOpenBio)

- LW CORE ICT e-Infrastructure requirements:
  - Essential “central” components
    - Portal access for all users
    - Datasets & services / tools catalogues
    - Access to computational resources / Security (AAI)
    - Provenance and citation tracking / Annotations
    - Virtual Collaborative environments / VO
    - Workflow composition, execution and management;
- Data & tool resources
  - Need to include Statistical, analytical and modelling tools
- Innovation Labs

# LIFEWATCH

## simplified architecture



## **Examples of path-finding miniprojects**

### **(integration work)**

Involve typically the integration of services delivered as output from on-going projects (ENVRI, EUBrazilOpenBIO, iMARINE, ...)

- Integrate in EGI the support to existing Virtual Laboratories
- Fostering the collaboration Worldwide in the context of COOPEUS (US) and EUBrazilCC.

## **Examples of Lighthouse miniprojects**

### **(adaptation of existing tools + integration)**

- Parallel data-mining (in python and R) cloud/grid instance
  - Connecting Cloud & HPC instances
- Systems to handle & process real time streams
- Access to large databases/directories common to other research areas
- Integrating tools for “genomic” use on biodiversity

- Ibergrid (+IberLife) (Spain + Portugal)
- France-Grilles
- IGI Italy
  
- Evolution open...