

E-Science European Infrastructure for Biodiversity and Ecosystem Research

"Reinforcing synergies between LifeWatch ERIC and the European GBIF Nodes"

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"10th European GBIF Nodes Meeting" Natural History Museum – University of Tartu Estonia-UE, May 2018

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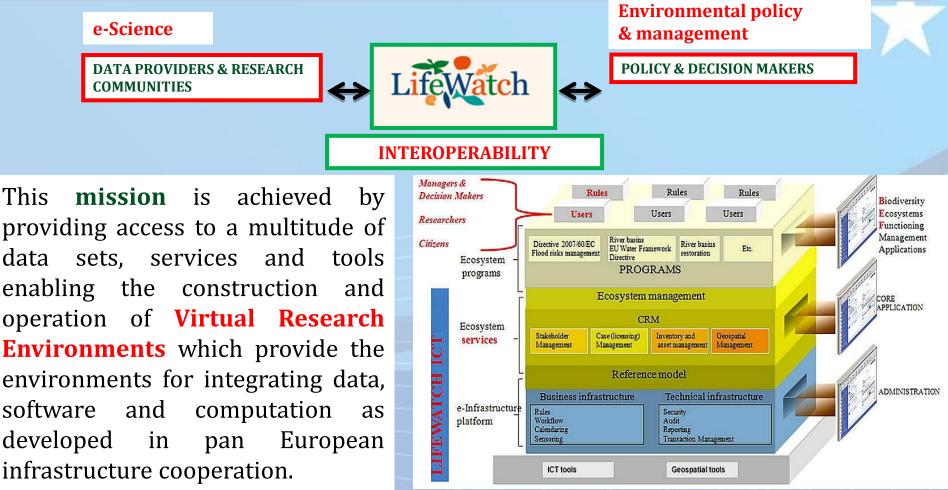
PART I An overall vision of LifeWatch ERIC distributed e-Infrastructure





LifeWatch ERIC is a European e-Science distributed Infrastructure focused on how to measure the impact of Climate Change issues on Earth Biodiversity and Ecosystems.

Expected IMPACT: LifeWatch ERIC as a structuring tool for the **European Research Area**, also supporting **policy decision making** addressing Societal Challenges which demand scientific knowledge in a Climate Change context, including **Citizen Science** activities.

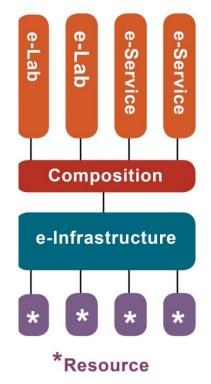


AMONG OTHERS, 2 CONCRETE CHALLENGES:

SCALE OF IMPLEMENTATION: requires the connection with users and data generators in the large Networks of Excellence
HETEROGENEITY OF COMMUNITIE'S REQUIREMENTS: complexity of Interconnected nature of biodiversity ideas, outputs and repositories

LifeWatch ICT e-Infra & BIG DATA architecture in place

- e-Services for scientific cooperation
- Select the data, software and computing power for your project
- Integrate resources
- Linking to resources (databases, sensors, software, computing power)







STRATEGY REPORT

INFRASTRUCTURES

ROADMAP 2016

ON RESEARCH

ESFRI Projects & Landmarks 2016 recently published by European Commission.

LifeWatch ERIC considered as an ENVIRONMENT strategic one.

www.lifewatch.eu

Related Projects Site Map



Congratulations to @II LifeWatch Community !

Since March 2017 LifeWatch is considered (the 14th) ERIC. Its 1st and 2nd General Assemblies took place on May 8th-9th, 2017 and January 10th, 2018 in Seville, respectively. In the same city, on May 23rd, DG R&I Robert Jan-Smits awarded the LifeWatch ERIC "Plate" in a ceremony also held in Seville (Spain).



LifeWatch is cooperating with "distributed" Centres in cooperating countries (including their REGIONS). These Centres are developing and operating virtual and physical media and other components.





TYPE: distributed COORDINATING COUNTRY: ES MEMBER COUNTRIES: BE, EL, ES, IT, NL, PT, RO ▲* March 7th, 2016 update PARTICIPATING COUNTRIES: FI, FR, HU, NO, SE, SI, SK

TIMELINE

- ESFRI Roadmap entry: 2006
- Preparation phase: 2008-2011
- Construction phase: 2011–2016
- Operation start: 2016

ESTIMATED COSTS

- Capital value: 66 M€
- Operation: 10 M€/year

HEADQUARTERS Statutory Seat: Seville (ES) Common facilities: ES-IT-NL

WEBSITE http://www.lifewatch.eu

Virtual Labs (Amsterdam, The Netherlands)

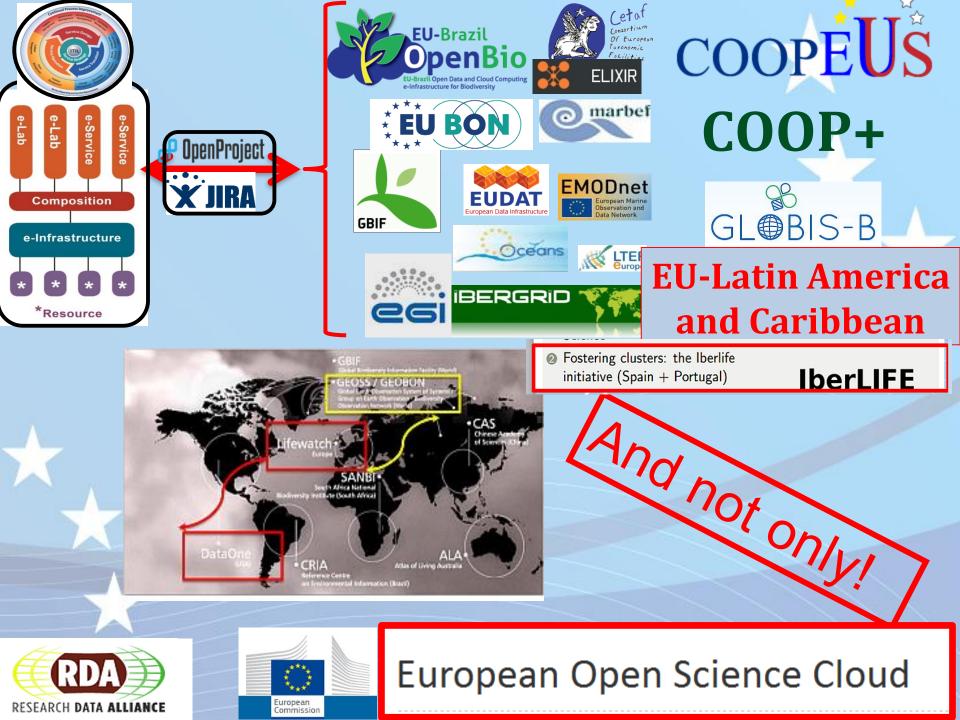
Service Centre (Lecce-Regione Puglia, Italy)



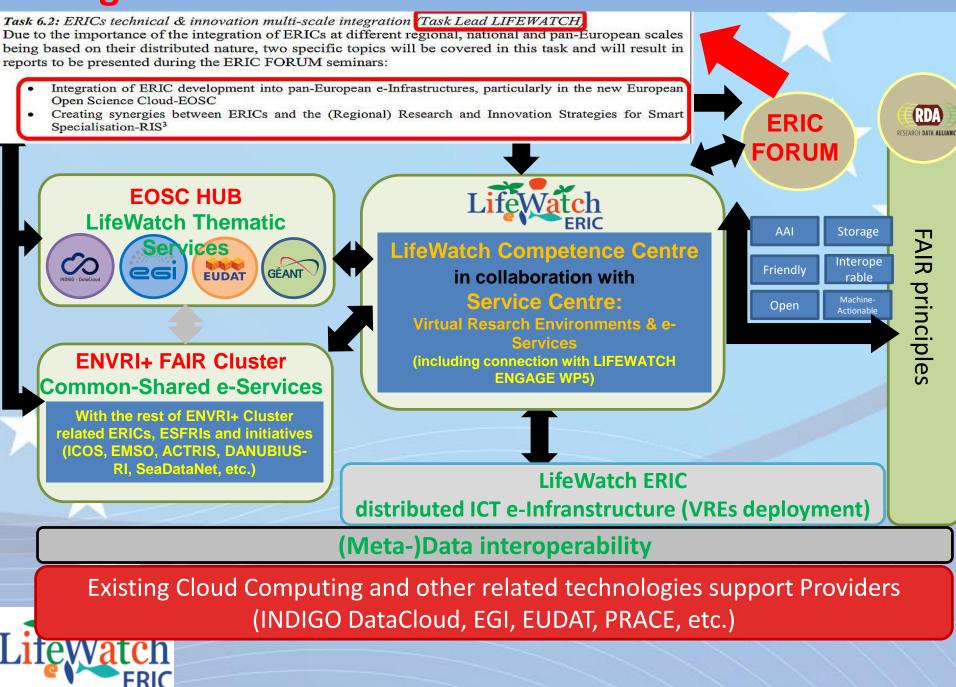


Headquaters, Statutory Seat & ICT e-Infrastructure Offices (Seville, Spain)





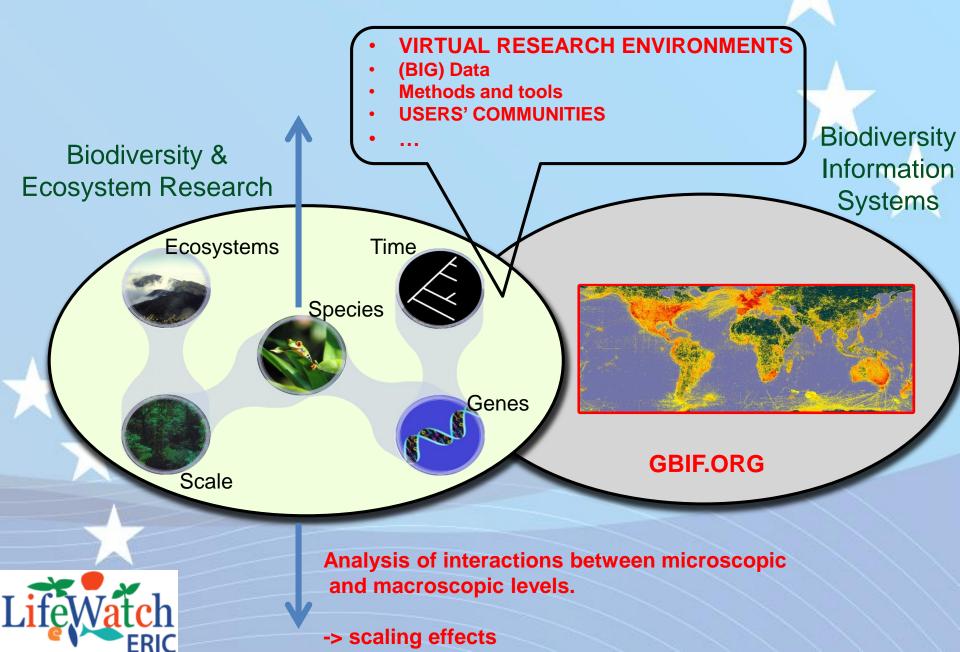
All together...



PART II Synergies between LifeWatch ERIC and GBIF



CONNECTIONS



EXPRESSED THROUGH EXTERNAL LIAISONS:

Existing Memorandum-of-Understanding







space for europe

European Space Agency

PART III Some conclusions



✓ LifeWatch ERIC is a relevant case of ENVironmental RI from the pan-European perspective:

- As it is a distributed e-Infrastructure, some regions are aware of its potential for:
- Capitalizing already existing investments
- Improving ICT developments
- Promoting a positive impact in the regional industrial sectors
- ✓ The existing knowledge and services related with biodiversity and environmental information should be better connected. This a real challenge for Environmental RIs, which also includes specific topics such as:
 - Shared ICT developments
 - Intellectual Property Rights (IPR)
 - Open Access (RDA), and
 - European Open Science Cloud (EOSC) connections.
- ✓ LifeWatch ERIC and the European GBIF Nodes should provide a common ground to reinforce the development of shared distributed e-Infrastructures.



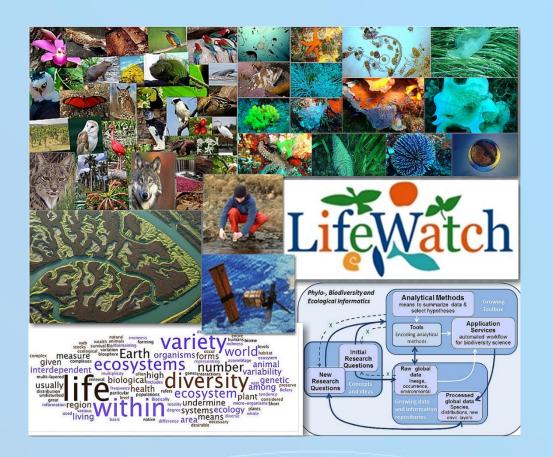
...BUT:

✓ The implementation of distributed Environmental RIs would be at serious risk if regional Smart Specialization Strategies policies (RIS3, i.e., the proper use of **European Structural Investment Funds**) are not taken into account during their construction phase. Their consideration would prevent H2020 funding instruments from being simple extensions of Preparatory Phase projects, enabling "realistic" constructions and granting the sustainable operation of new-born facilities.

✓ To that purpose, LifeWatch ERIC has developed a "realistic" Construction and associated Business Plan based on "real" needs and users' requirements, including a "feasible" Governance Scheme and Funding Strategy in order to guarantee its Sustainability.

✓ Therefore, it is compulsory the reinforcement of existing synergies between LifeWatch ERIC and the GBIF Nodes based on a "realistic" approach of Biodiversity and Ecosystem Research Communities in order to guarantee further & proper integration of their developments (mainly e-Services) in the European Open Science Cloud-EOSC.





Thank you very much for your attention!

http://www.lifewatch.eu

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