

LifeWatch/FinLTSER

Possibilities of research infrastructures for future cooperation

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Background

CLIMES-SYMPOSIUM
Remote sensing in
the mapping of
biodiversity, habitats
and ecosystem
services
6–7. Sept. 2012

- Large research infrastructures are currently developed/planned as part of a large coordinated European process (ESFRI)
- Formal national 'road maps' with lists of priority projects developed
- All fields of science considered → heavy competition at national and international scales between suggested projects



e-Science and Technology Infrastructure for biodiversity data and observatories

LifeWatch observatories: **FinLTSER** research network sites

An aerial photograph of a rural landscape, showing a mix of green fields, forests, and small settlements. The terrain is rolling, and the vegetation is dense in some areas, particularly in the foreground and middle ground. The sky is clear and bright.

www.lifewatch.eu
www.environment.fi/syke/lter

The big questions in biodiversity research

Ecosystems



Species



Time and evolution



Scale



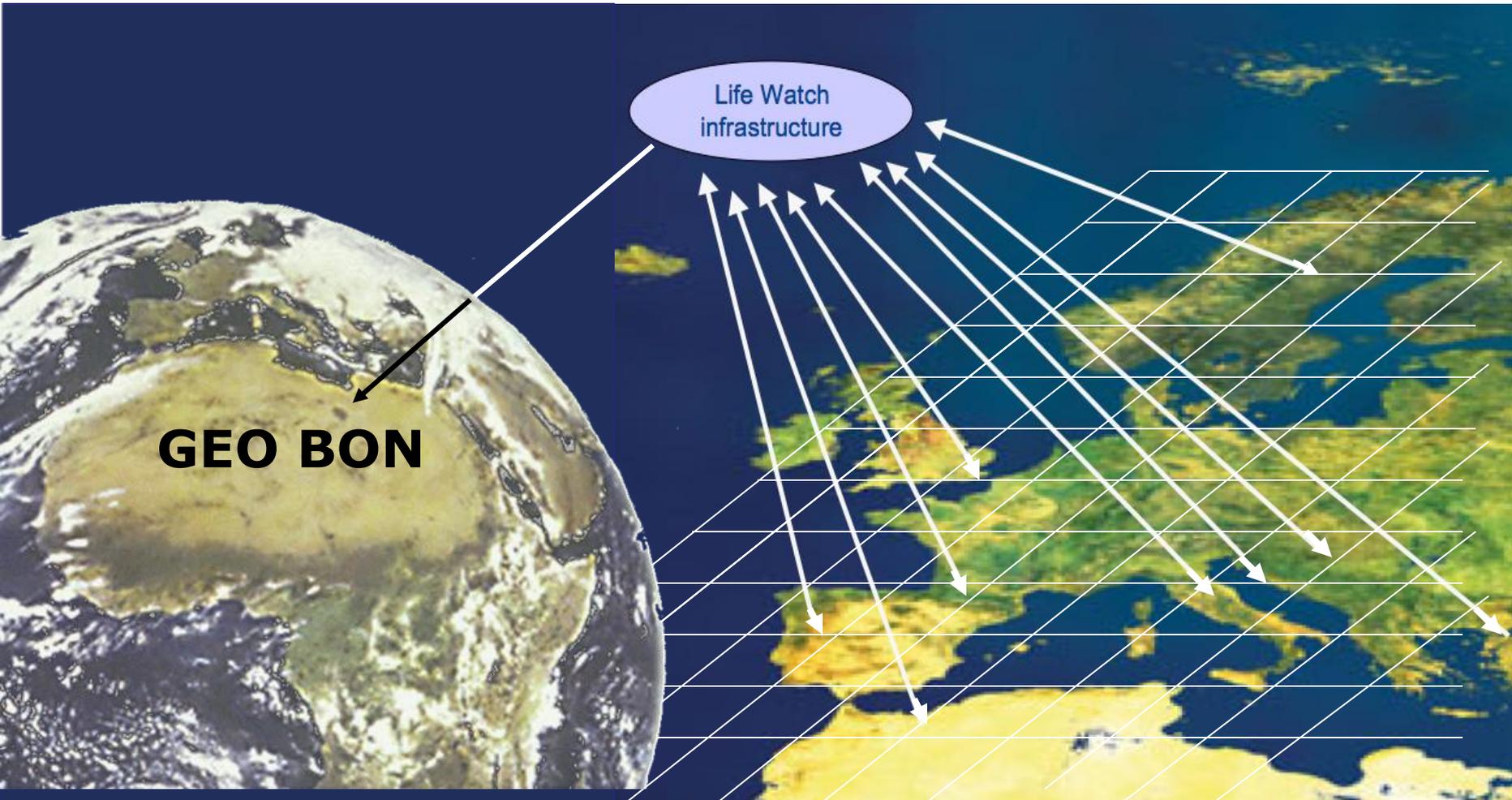
DNA,
proteins
and genes



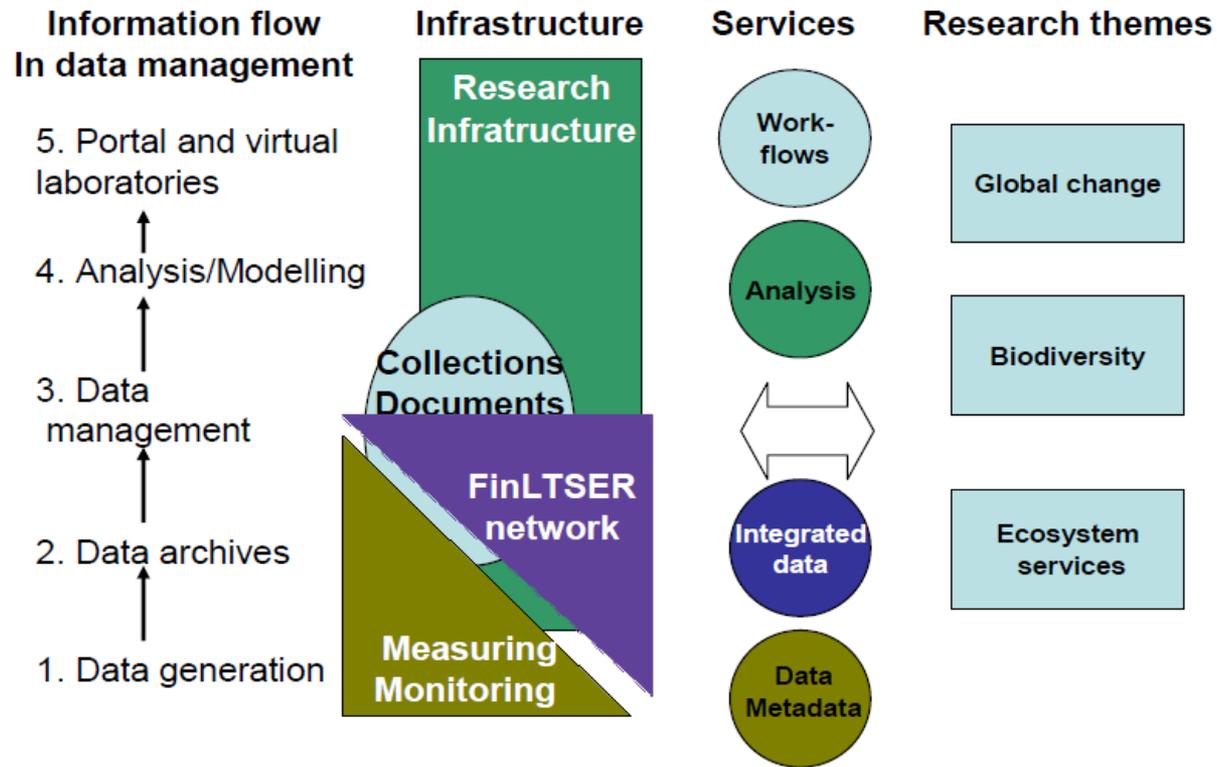
● **LIFEWATCH** aims at . . .

- operating as a large scale infrastructure for biodiversity and ecosystem research
 - with a service centre to support the user community;
- bringing high quality scientific information, knowledge and expertise together
 - with a system of observatories with wide and long-term coverage,
 - and with integrated access to (genetic, species-level and ecosystem) data;
- in a virtual environment
 - offering analytical and modeling tools;
- and for the support of policy objectives
 - by offering information knowledge required for the understanding and management of our ecosystems;

LifeWatch contributes to European part of GEO BON



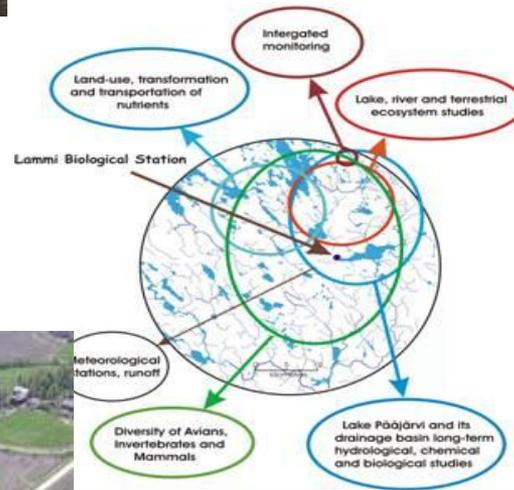
Planned structure of Finnish LifeWatch project



Lammi FinLTSER site



LAMMI LTER





Current status

CLIMES-SYMPIOSIUM
Remote sensing in
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6–7. Sept. 2012

- Decision made to start construction of European LifeWatch project
- Finnish LifeWatch/FinLTSER project accepted on national research infrastructure road map 2010
- Proposal submitted to the Academy of Finland 09/2012
 - Universities of Helsinki, Jyväskylä and Oulu
 - SYKE
 - Finnish Forest Research Institute



Thank you

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