Global e-infrastructures for biodiversity

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Lessons Learned

Focus – direct problem solving

- Define clear targets & aims
- Identify data providers and data users

Planning

- Step-by-step approach: from simple to complex
- Data provider: full control, responsibility, acknowledgement
- Data policy: data restrictions controlled by data provider
- Data at infrastructure: free & open to all
- Use internationally accepted standards & protocols

Challenges

Establish a knowledge base from multiple disciplines creating an integrated vision of a fundamental problem

- Multiplicity of organizations, different: stakeholders, scales, languages, cultures, uses
- Long term support: new sustainability models
- Make scientific knowledge part of informed decision processes: global, national, regional, local

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Priorities & Future Directions

Based on the problem (challenge) to be addressed:

- Support local information systems to feed into global infrastructures (think and act locally and globally)
- Integrate existing infrastructures to answer new questions
- Don’t forget the basic (data digitization, capacity building, reward systems, long-term funding)

Establish advanced cooperating systems at a global scale

Define new kinds of governance

Compatible data policy (free and open access to non sensitive data)

Promote Open Science

Sponsor/publicize new demands for ICT

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Take away messages

- Start simple, with clear targets and products, adopting a step-by-step approach.
- Progress depends on continuous and dynamic planning and evaluation, interaction, cooperation, suitable governance, and adequate long term funding.
- Together with information and communication technology, the type of data, data providers, and target users represent the basis for a balanced strategy.
- A global biodiversity data e-infrastructure that ascertains the organization and participation at all levels, from local to global, is fundamental.
- At the same time that we require data e-infrastructures with specific targets and products, with geographic and / or thematic focus, we must be able to integrate and use data from different infrastructures to be able to answer new questions and produce new analysis.

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