



GEO Biodiversity Observation Network

Addressing User needs

GEO BON Meeting
Potsdam, 8-10 April 2008

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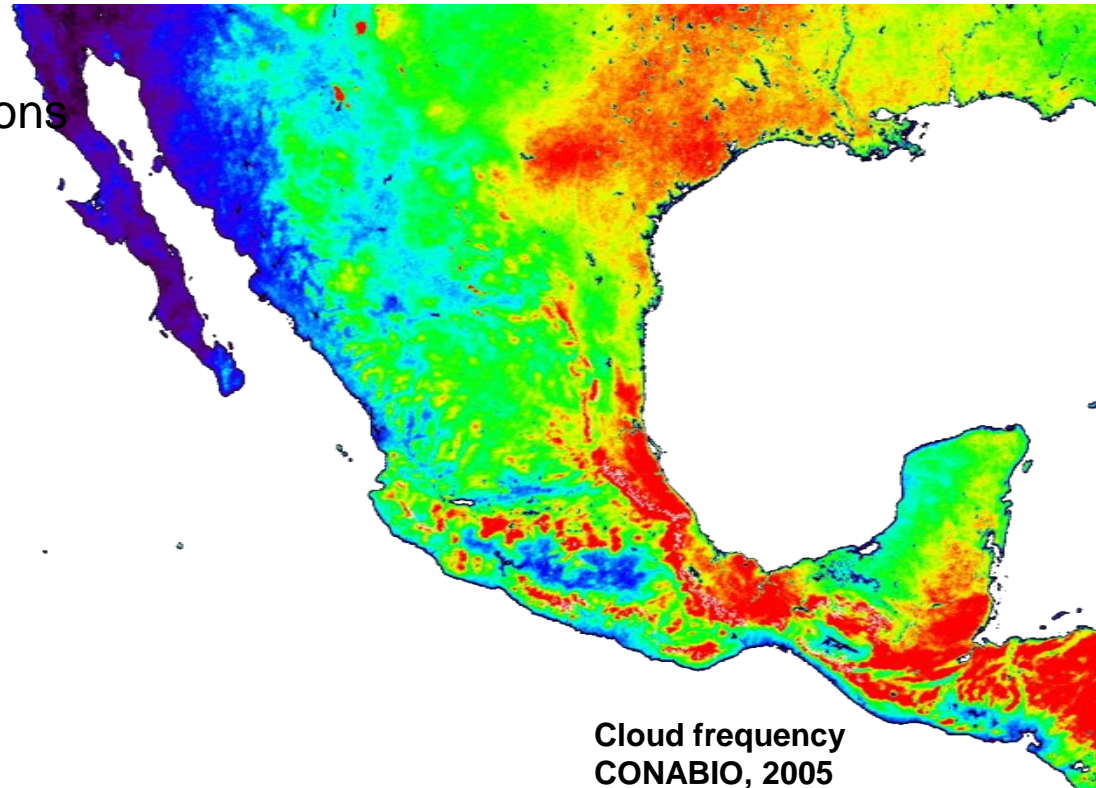


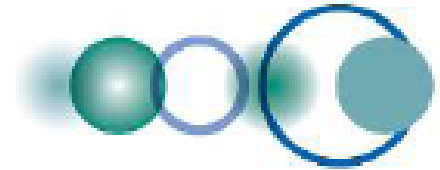
USERS

Based on GEO BON achievements drawn on the draft concept document, there is a **broader user communities** who would benefit

They range from

- International treaties and organizations
- Governments
 - Federal
 - States
 - Municipal/County/Canton
- NGOs
- Research and education
- Communities (local)
- Public
- Private
- ...





Data, information, products and programs

- Primary/raw data -mainly for specialist-
- Integration approach (information)
 - Poorly attend on integration standards and quality control, clean, etc. and many times too idiosyncratic-
- Products -many on them available on coarse scale-
- Index and indices –Lack of a **clear objective**, costly {or worst no idea on cost}, relevance, measurability, representativeness, reliability, feasibility and **communicability**

Today's available.

Virtually zillions of ways to get stuck in data, information, programs, etc.

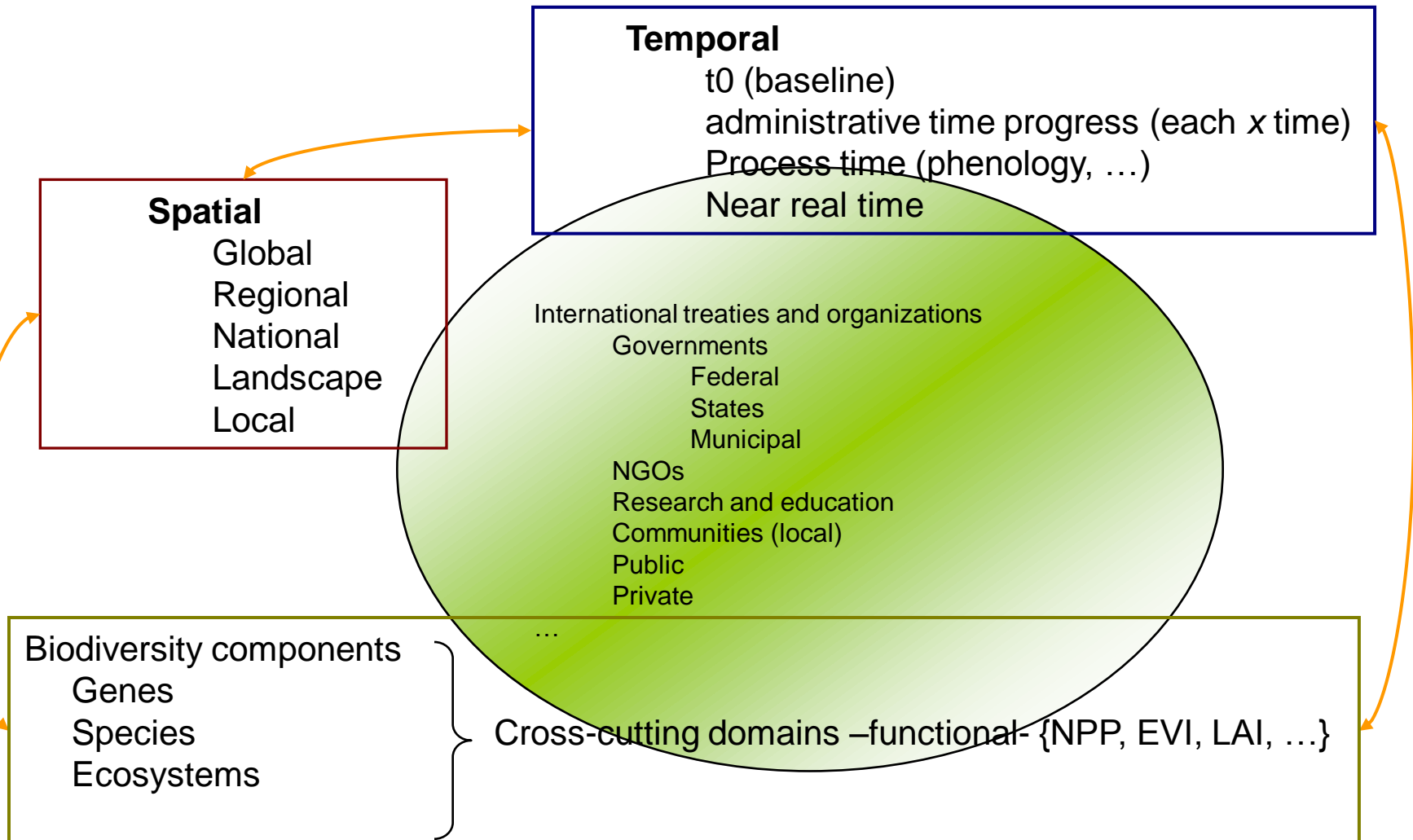


Chiapas, Mexico
CONABIO 2006



Users needs?

Can we refer users as a simple analysis of domain interest/relevance interrelation?





Depending on the side view (Governments, Scientist, Local communities, etc. we have to fill the needs for the differences scales and also depends on the type of information

Spatial scales/ users	Global	Regional	National	local
International agencies				
Governments				
Federal				
Estatal				
Municipal				
NGOs				
Scientist community				
Local people				
Public				



Users needs? ... Short term

- **A multidimensional analysis array on users & needs** & {space resolution/precision, temporal, biodiversity component, ...}
- **Formal framework** -on the current state normalization-
 - Clear purpose
 - Standard/uniform methods –protocols-
 - Different scales –spatial/precision and temporal-,
 - Well established domain –component-
 - Linking ways {coarse to fine scale –aggregation and disaggregation-}
 - Practical and simple (when is possible)
 - **Metadata**
 - **Intellectual Property Rights.**
 - Data access and interoperability
 - **Knowledge representation**
 - Semantically explicit -;at least!-
 - Analysis and modeling tools
 - **Synthesis** –mandatory-
 - **Visualization** –mandatory, at least as innovative as GoogleEarth, World Wind (Nasa), etc. -
- **Early warnings and rapid response systems**
- **Capacity building**



Users needs? ... Long term

More on the last (short term)

New ways to do integration and interpretation

Synthesis is far from easy

Visualization challenge the imagination

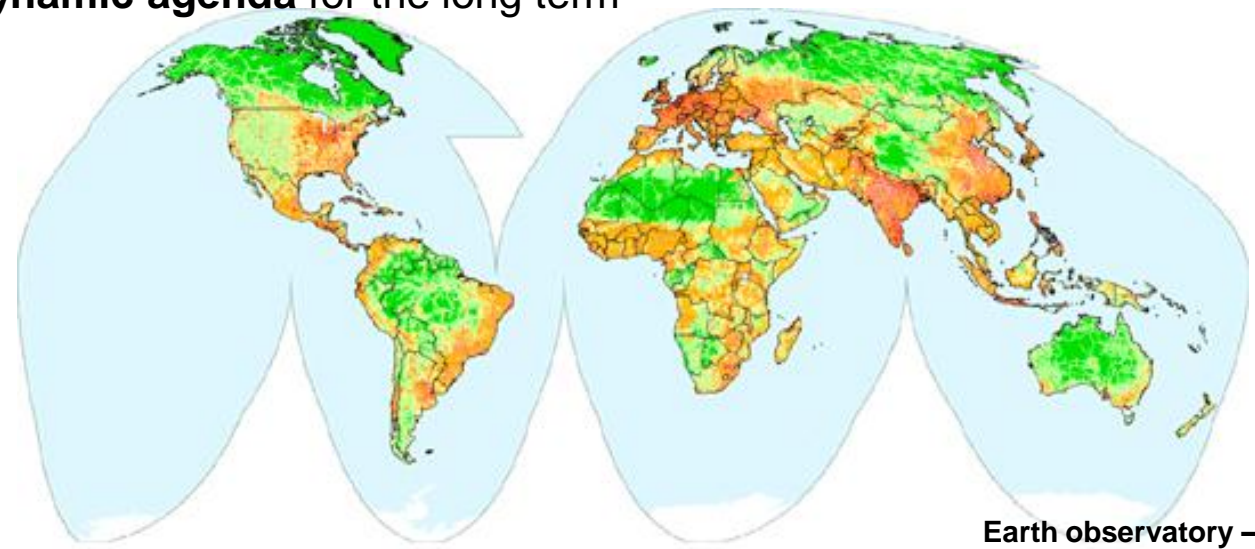
New ways to do observations

High resolution geo-stationary-hyper-spectral sensors

On ground sensor –New cyber-infrastructure–

...

It should be a quite **dynamic agenda** for the long term



Earth observatory – NASA
Human footprint