



Energy, Water and Territories of the future

EOSYS

Adapting the Territory to its natural environment

To maintain and to develop the Territory harmoniously in its natural environment, EOSYS reorganizes the ecosystem's natural metabolism respecting and taking advantage of the natural fluxes that have shaped it since its origin.

Customers

- local authorities
- development agencies
- planning agencies
- promoters
- engineering companies
- industrial companies



Assessment of natural and current fluxes and proposal of scenarios for the territory of tomorrow considering:

- **Renewable energies:** solar, wind, hydraulic and marine, geothermal and ocean thermal energy conversion.
- **Natural cycle of water:** precipitation, runoff, evapotranspiration, rivers and lakes, groundwater.
- **Natural cycles of Mineral and Organic Matter:** sediment transport, dissolved and suspended matter fluxes, carbonaceous and mineral material fluxes.

Metabolism of territories

Energy, water and material topics

Observations and motivation

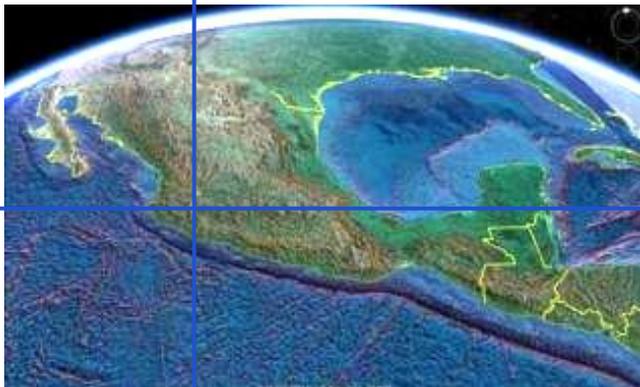
- Population growth and climate change lead to increasingly unbridled resource extraction and development projects putting territories under the pressure.
- It becomes increasingly difficult for policy makers to know what is suitable or not for the welfare of the inhabitants of the territories. Zoning and urban planning schemes exist at regional or national scales but they are often inappropriate to the territory scale.
- To define sustainable solutions, it is essential that human developments be part of the natural fluxes of energy, water and material and make the best use of them : best energy, best water the best materials are those that nature provides in the territory and that be recycled locally.
- EOSYS proposes an assessment of these fluxes, in their present (anthropized) and original status. This inventory will help the decision makers to guide their choices on topics such as:
 - What is the best energy solution?
 - What developments need to be done to leverage the water cycle ?
 - What relationships between the energy used and the water cycle?
 - Which territory is required around the city to ensure its energy and food resilience?
- EOSYS has worked since more than 20 years on environmental topics (ocean, rivers, groundwater, subsoil), natural hazards, natural and energy resources, spatial planning and can develop the best appropriate analysis and solutions for a given territory.

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