

The Relevance of Governance Quality for Sustainable Resource Use.

Greece as a Case Study

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- factors that shape resource use
- relationship between socio-economic and biophysical system and interaction

1. What are the characteristics of the Greek social metabolism?
2. What determines the biophysical development of Greece and in particular Greek resource use?
3. Does the integration into the European Union influence the biophysical and socioeconomic development of Greece?
4. Can a statistically significant relationship between governance quality and resource use be observed when including corresponding data for the current EU member states.?
5. What are the channels through which governance quality influences resource use in Greece?

- **EW- Material Flow Analysis**

Greek Material Flows

- **Literature Research**

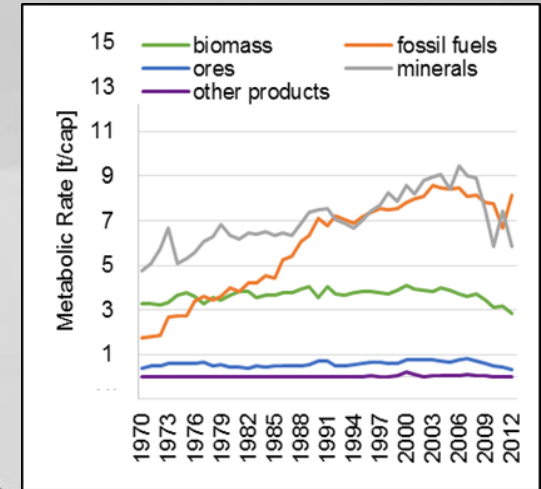
Greek socioeconomic and political development

- **Correlation Analysis**

Relationship between governance quality and resource use

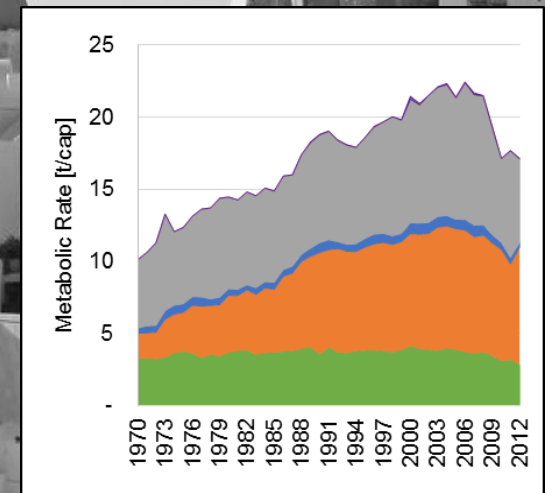
Industrialization & Europeanization -> starting point 1960s

- transition from biomass-based, agricultural to a minerals-based, industrial society -> Increased resource consumption (in particular minerals + fossil energy)
- European Single Market -> intensification of trade activities + GR -> massive net-importer
- Adoption of EURO -> explosion of national debt



Relationship between biophysical characteristics (national resource use) and governance quality

- significant relationship between governance quality and resource use
- potential aspects where governance quality and resource use may interact (e.g. construction sector)
- Contextualization of Greece within structurally similar European countries, Spain, Italy and Portugal -> low governance quality and resource productivity = adaptive difficulties to the newly required governance and production structures in an industrialized economy



- Social Ecologists
- Interested in interdisciplinary research
- Transparency International

