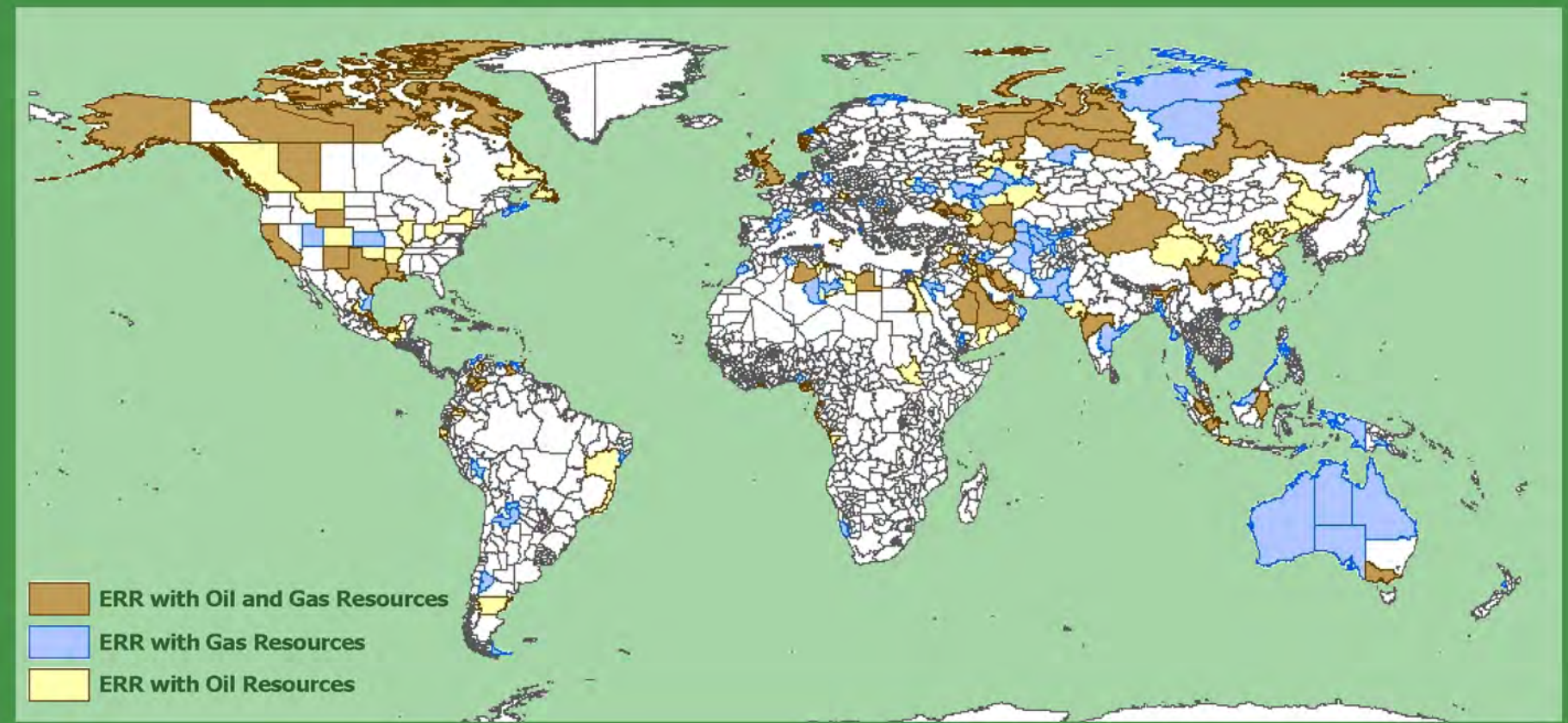
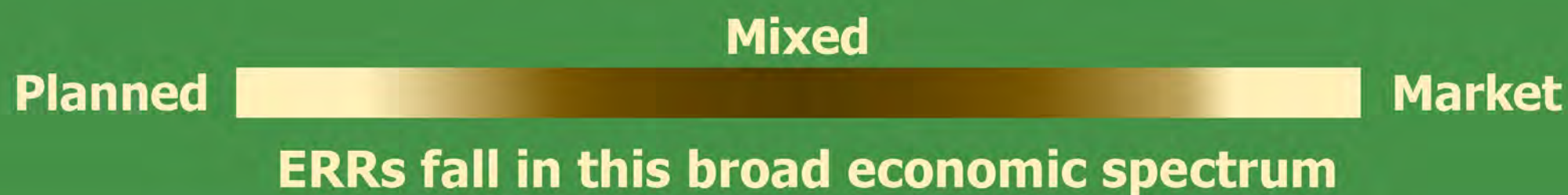


# Energy Rich Regions (ERRs)

Energy Rich Regions (ERRs) are endowed with significant amounts of energy resources and their economies primarily depend on extraction of these valuable, but finite resources; our focus here is on oil and gas.

ERRs are key to a balanced world economy, a sustainable global energy system, and facing challenges of the environment.



## Knowledge Base

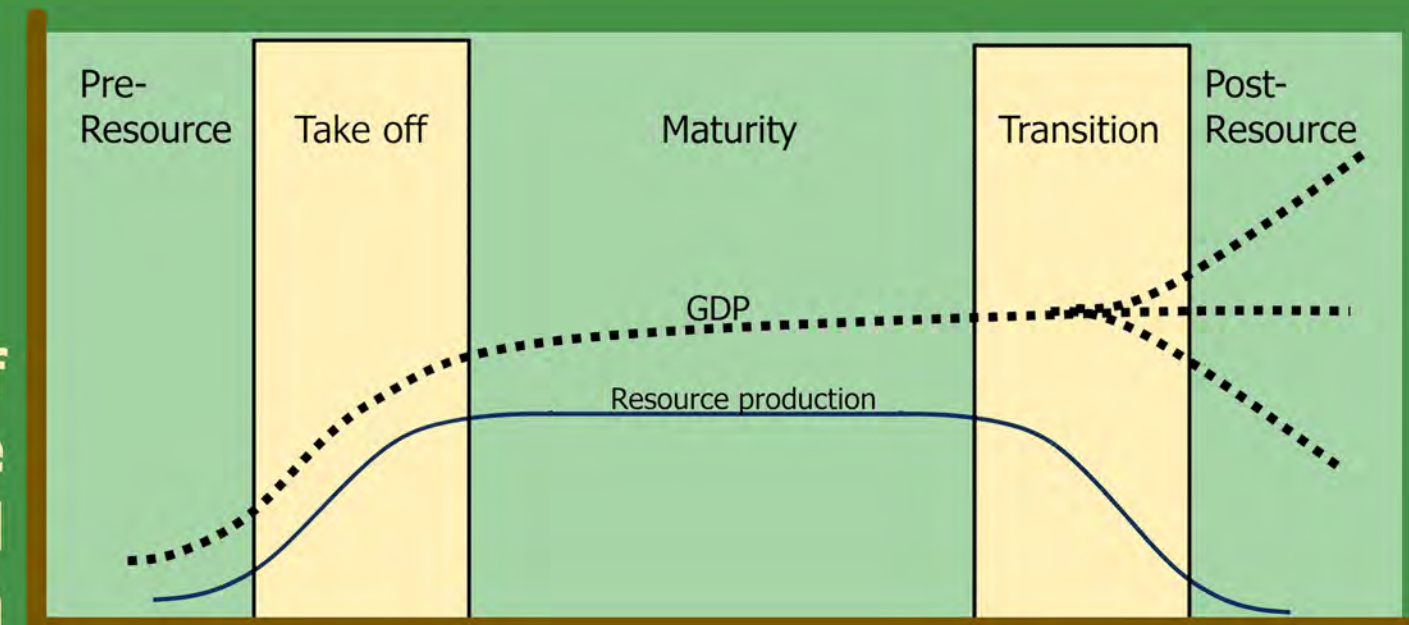
The ERR *Knowledge Base (KB)* is a comprehensive compilation of spatial and non-spatial data and information on Energy Rich Regions. This KB uses "Mega-projects" and "Giant Gas & Oil Field" databases in addition to other complimentary information (4Gs: Geographic, Geologic, Geo-economics, Geo-politics). This KB also includes queries, templates, and visualization tools and lays the foundation for quantitative and qualitative analyses.



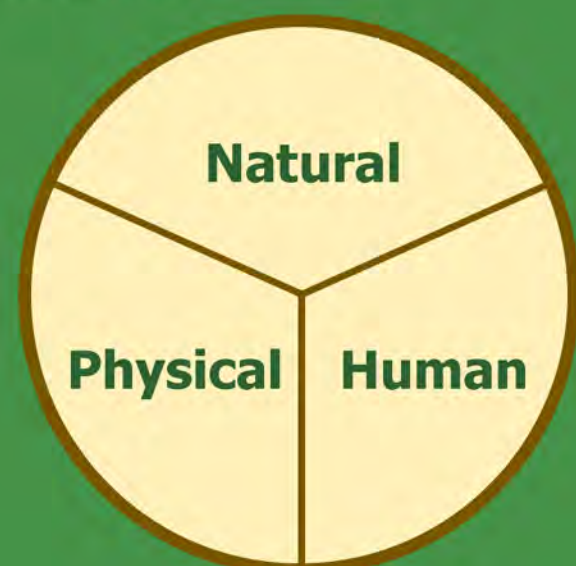
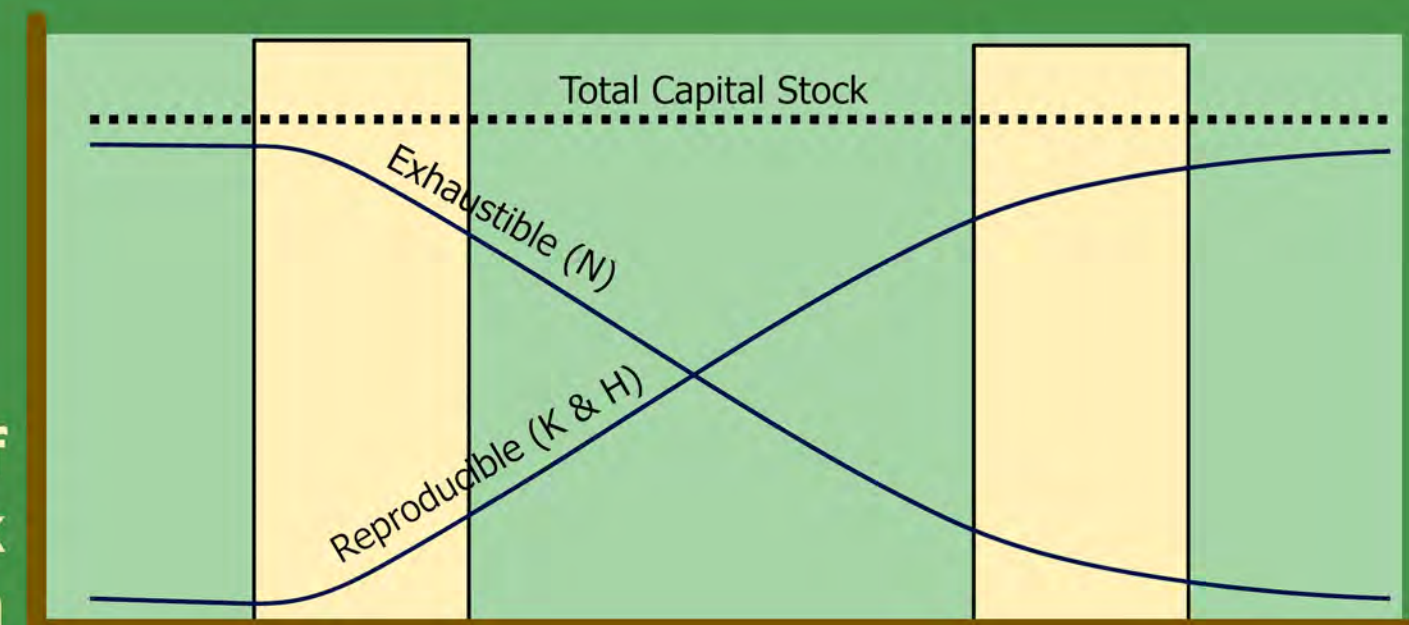
## Analytics

The *Analytic Framework* is based on the "constancy of total wealth (capital stock)" and uses data mining and data analytics to derive patterns of sustainable development in these regions. The most important development challenge of ERRs is to convert their valuable but exhaustible natural capital into reproducible capital in pursuit of sustainable economic development that is also environmentally sustainable.

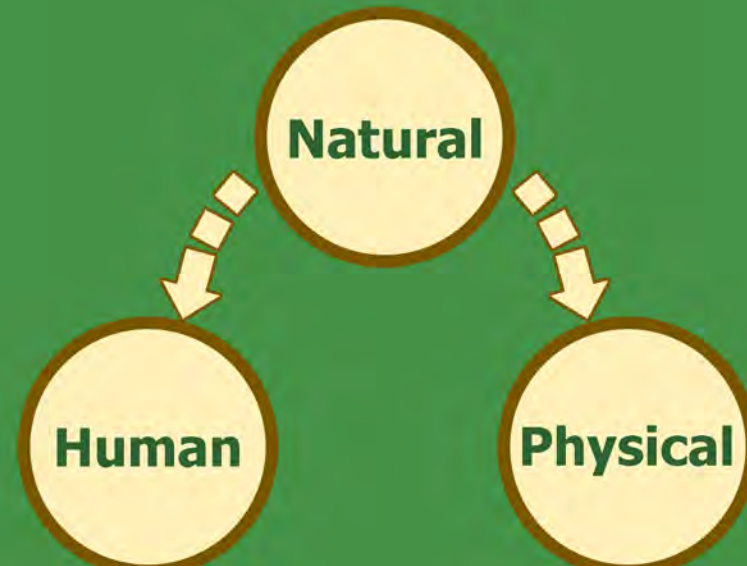
Stages of Resource Depletion and Regional Growth



Stages of Capital Stock Conversion



Constancy of Total Wealth



Major Development Challenge

## Research Projects

A Regional and Multi-Regional Approach to Sustainable Global Energy Systems: Prospects for Energy Rich Regions

Investment in ERRs: Risks and Rewards

Development Patterns in ERRs: A Geodesign Approach