



ARAB FUND FOR ECONOMIC  
& SOCIAL DEVELOPMENT

# Natural Resources and Environmental Economics Research Perspectives in Dryland Regions: The New Priorities

Training Course

Impact Assessment and Livelihood Analysis in Systems Research

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# **Natural Resources and Environmental Economics Research Perspectives in Dryland Regions: Setting the scene**

- **Importance and value of the natural resource base to sustainable livelihoods and resilience in the drylands**
- **Interconnectedness of land, water, nutrient and energy dynamics**
- **Logic of pastoral livestock production**
- **Crop production systems**

# **Natural Resources and Environmental Economics Research Perspectives in Dryland Regions: Current Situation**

- **Policies and legal framework for natural resource management**
- **Institutional actors (local, national, regional, formal/informal)**
- **Infrastructure and services for natural resource management**
- **Capacity of key stakeholders and institutions involved**
- **Financing instruments and mechanisms**
- **Implications of climate change**

# **Natural Resources and Environmental Economics Research Perspectives in Dryland Regions: Challenges**

- **Seasonal and inter-annual variability**
- **Shifting herd dynamics**
- **Resource access and tenure**
- **Cross-border relations**
- **Planning, administration and decision making**

# **Natural Resources and Environmental Economics Research Perspectives in Dryland Regions: Opportunities through Ecosystem/ integrated approach and adaptive management**

- **Land- and resource-use planning**
- **Integrated and participatory rangeland and natural resource management**
- **Water development, conservation and management**
- **Soils management and erosion control**
- **Dryland forest management and afforestation**
- **Conservation of biological diversity**
- **Development and expansion of renewable energy use**
- **Tourism**
- **Payment for environmental services and carbon sequestration**

# **Natural Resources and Environmental Economics Research Perspectives in Dryland Regions: The New Priorities**

- Policy and legal frameworks dealing with land tenure.**
- Landscape and livelihood planning and decision-making built upon integrated multi-sectoral, multi-stakeholder and multilevel processes supporting pastoralists, agro-pastoralists and ecosystem processes.**
- Capacity development of stakeholders and institutions in leadership and facilitation skills and practices that build resilience of agro-environments.**
- Infrastructural development that is related to sustainable water development and access roads to markets.**
- Research and knowledge management that provide evidence for informed decision making and policy development, scaling up appropriate practices and valuing ecosystem services.**
- Harmonized funding mechanisms from both public and private sources, focused on resilience and growth-enhancing interventions in order to provide incentives for land users to manage the natural resource base in a sustainable manner.**

**Thank You**

**Thoughts ???**