Future Earth: Addressing Global Change and Sustainability in the MENA Region futur@rth

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Background/Introduction

MENA Region characterized by:

combined population of appr. 350 Mill.,
strong environmental gradients,
climate extremes,

diverse economic, social and cultural identities,



being a climate change "hot spot",
challenges on energy-, water- and food security
threats to environmental integrity
Sustainability threatened by
anticipated climate change and impacts
growing demand on resources
environmental/resource degradation
urbanization and globalization

Heat wave days index (HWD90) for selected MENA cities based on observations (Klok and Klein Tank 2009; Zhang et al. 2005) and model output for different time periods and the emission scenarios A1B; extracted from: Lelieveld et al. (2014) []



Future Earth (FE) & Sustainability
Future Earth:
> builds on considering local to regional processes affecting global sustainability



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addresses three broad themes:
Dynamic Planet
Global Sustainable Development
Transformations towards Sustainability
advances co-design and co-production of science with relevant stakeholders across many sectors
facilitates research on eight major global sustainability challenges
addressed through Knowledge Action Networks

FE-MENA Regional Center (FEMRC) The Cyprus Institute as FEMRC: > enabling and soliciting funding for research, > provision of adequate computational facilities ,

> a comprehensive data repository relevant to FE,
> an effective communication network,
> workshops and conferences,
> education, training and capacity building
Current activities
> forming a Regional Advisory Committee
> convening a first Scoping Workshop on FE research in MENA

Sorganizing a workshop/training event on Water Scarcity, Food Security and Altered Land Use Practices in the MENA Region





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