



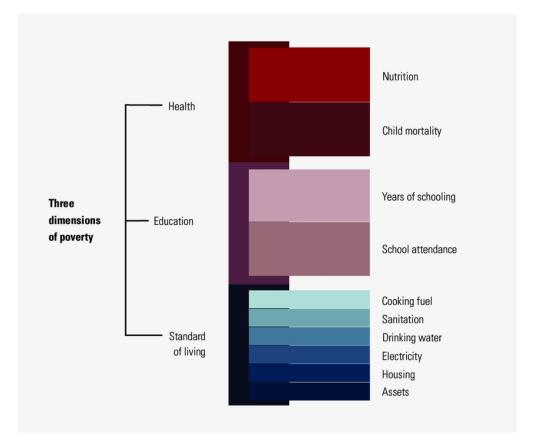
Integrating Water, Energy, and Food for Sustainable Development: Current Status, Challenges, and Opportunities

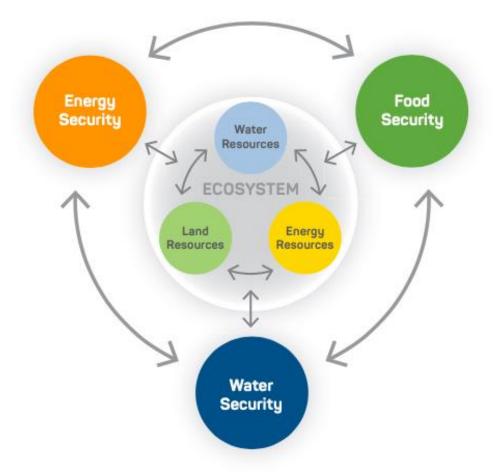




West Asia-North Africa (WANA)
Institute
Dr Majd Al Naber

WEFE Security & Multi-dimensional Poverty Index





OPHI (2018). <u>Global Multidimensional Poverty Index 2018: The Most Detailed Picture to Date of the World's Poorest People</u>. Report. Oxford Poverty and Human Development Initiative, University of Oxford



The economic growth priorities of the Economic Modernisation Vision

High Value Industries

Agriculture & Food Security

Mining

Food products

Chemical products

Pharmaceuticals

Textile products

Engineered products

Logistics

Water



Destination Jordan

tourism

Medical & wellness tourism

Faith tourism

Film production tourism





Smart Jordan Education

V 10

K-12

Higher Education

TVET

Data

R&D and Innovation



Future Services

ICT service

Creative industries

Financial services

Healthcar

Trade

Transpor

Priority A: Agricultural Production and Food Security

- Establish a specialized food security **governing** body, national food security **research** center.
- Build a food **data** intelligence system.
- Reform agriculture regulations and policies.
- Encourage **Modernization** and **innovation** of the agricultural sector, and expand the use of modern technologies.

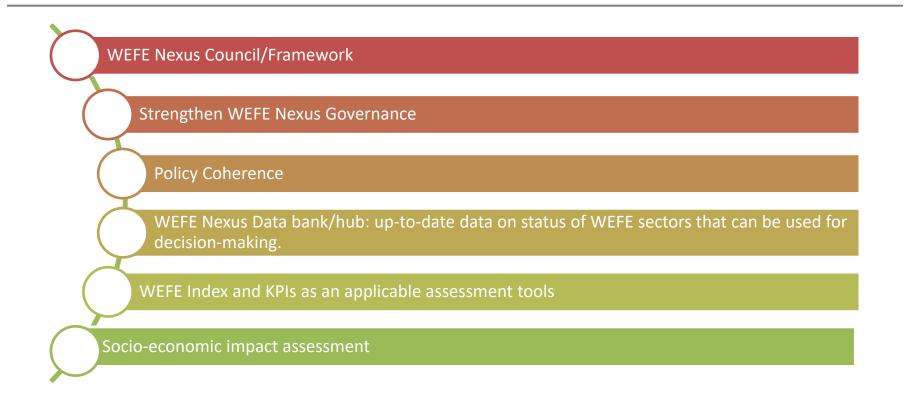
Priority B: Increasing Access to water

- Establish Nexus Council
- Launch National Innovation Center.
- Improve water efficiency and efficiency of energy use in the water sector,
- Increase the use of renewable energy sources.
- Reduce NRW* by 2% annually.
- Launch national desalination projects.

Priority C: Increasing Access to Modern Forms of Energy

- Develop an energy transition roadmap
- Devise new energy regulations and policies
- Adopt technologies and solutions for energy efficiency.
- Enhance inter-sector coordination (between the relevant sectors) and demand management/planning

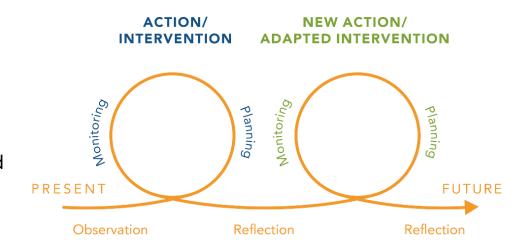
Opportunities – WEFE Nexus Framework



WEFE Nexus Council/Framework

The framework is expected to contribute to the coordination of the WEFE sectors:

- At policy and decision-making level (i.e., Ministerial Level)
- At the national technical level
- With national and international implementing entities and other partners
- Strengthening national multi-stakeholder platforms

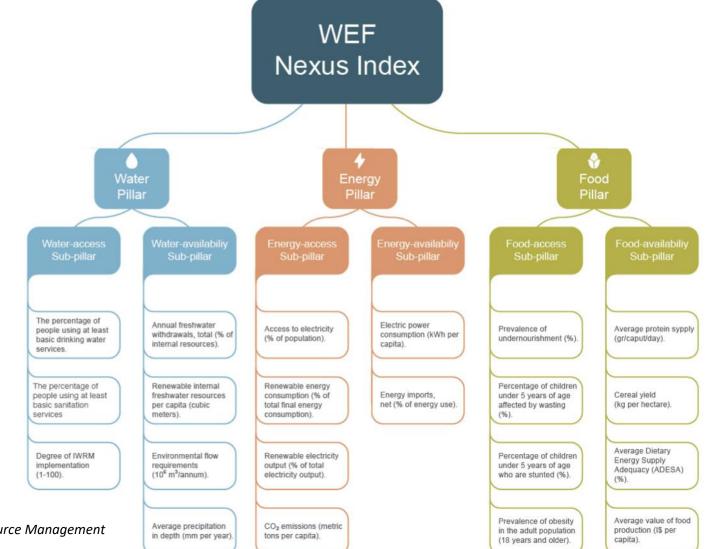


WEFE Nexus Framework

- Systematize environmental and social impact assessment across WEFE sectors for all new infrastructure/projects.
- Coordination of policies at a strategic, higher authority level (e.g. sustainability strategy).
- Reducing sectoral trade-offs.
- Enhancing resource efficiency by designed solutions to address multiple challenges simultaneously.

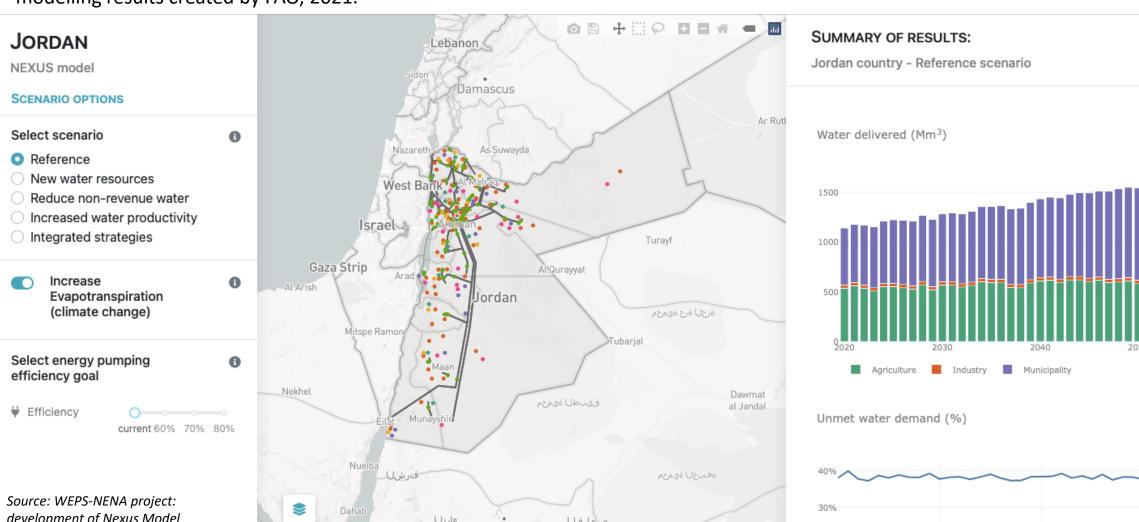
WEFE Index and KPIs

- The WEFE index is a national-level indicator based on 21 subindicators that focus on accessibility and availability in food, water and energy systems.
- It aims to introduce an indicator that allows a stakeholder to quantify and monitor the WEFE nexus interlinkages at a national level.



Source: The Water-Energy-Food Nexus Index: A Tool for Integrated Resource Management and Sustainable Development. 2020

Jordan Nexus visualization platform: A visualization platform was created to facilitate and ease the exploration of the large modelling results created by FAO, 2021.





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