



OCP Policy Center Conference series

Food Security in the Desert What does it take?

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11-13 June 2014



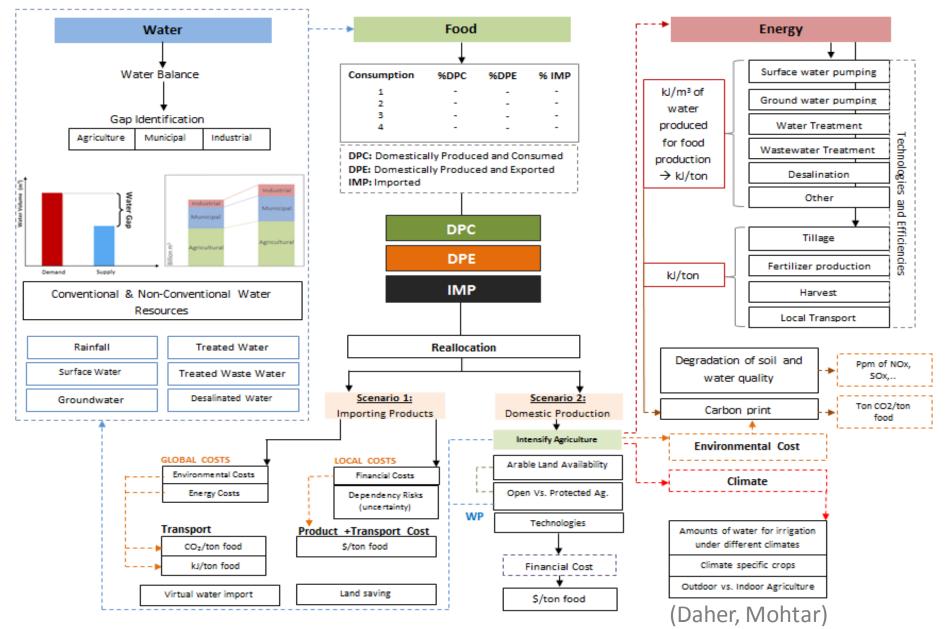
Qatar

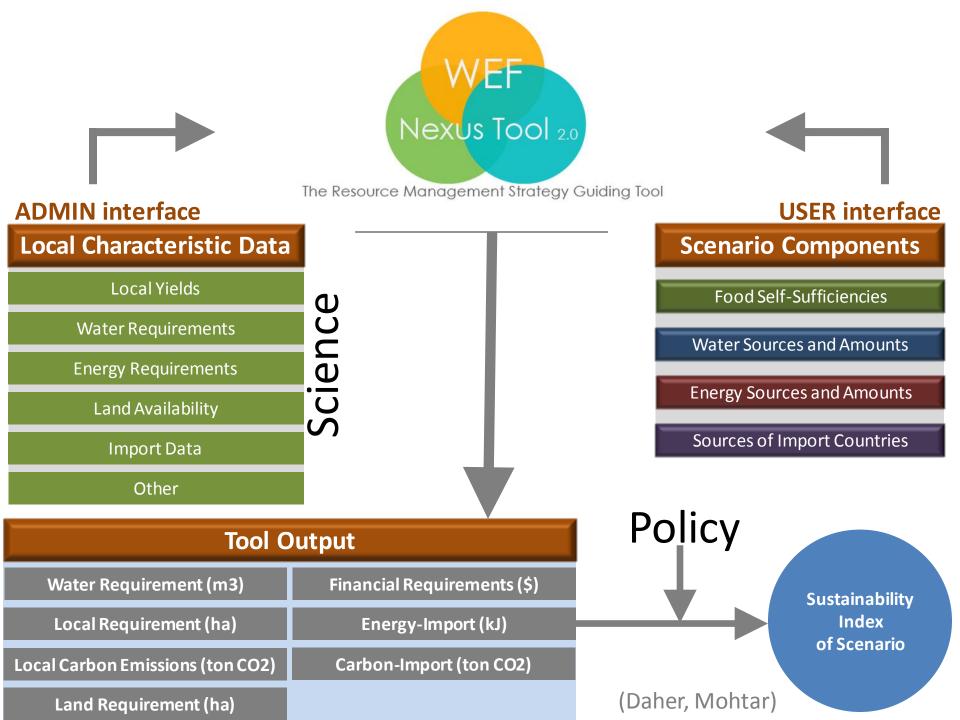
- Ranks 3rd in NG reserves; Ranks 12th in Oil reserves
- Arid Climate
- Water: Desalination
- Agriculture: limited by low water quantity and quality, unsuitable soil, climatic conditions → low crop yields
- Food imports exceed <u>90%</u>
- Qatar National Vision 2030
- Qatar National Food Security Program (QNFSP)



(Source: Athaia, 2011)

Conceptual Framework





Qatar Case Study

Combined self-sufficiency = 15% (2010)

Tomato and Cucumber are partially done in protected agriculture

Groundwater is main source for agriculture

Natural Gas is main source of energy

Imports secured from 15 different countries

WATER (m3)	5,783,797
LAND (ha)	792
E1 (kJ)	24,699,706,932
E2 (kJ)	15,000,733,177
C1 (ton CO2)	3,039,436
C2 (ton CO2)	1,089
F Local (QAR)	48,940,200
F Import (QAR)	3.68E+08
E IMP (kJ)	1.2117E+12
C IMP (kJ)	92,987



Discussions

Hypothetical Scenario













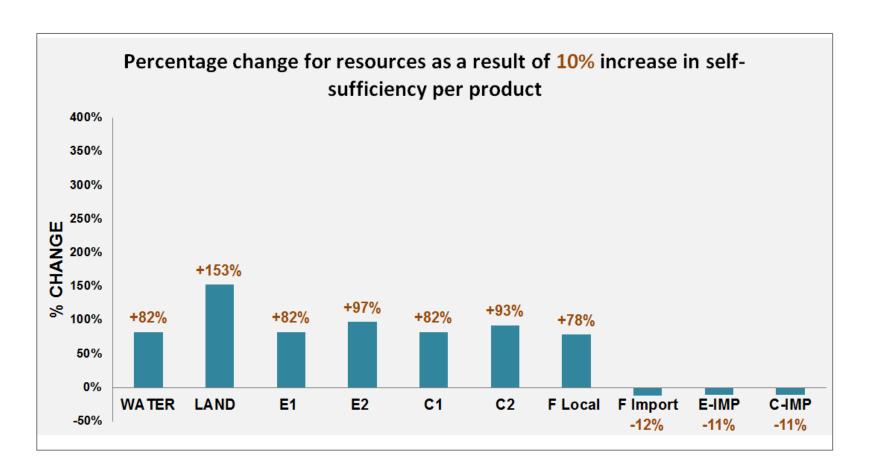






Discussions (cont'd)

Most sensitive does not mean most critical!

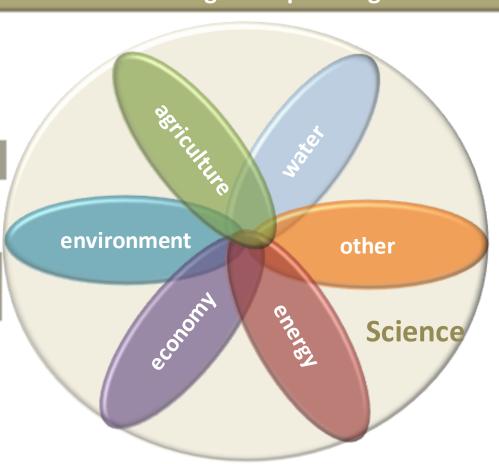


Integrative Planning

Two necessary spaces for collaborative and integrative planning

among decision making entities

among decision making entities & science



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