

Malta's Experience with Water Conservation and Related Energy Savings

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Context

Total surface area: 316km²

Population density: 1690inh/km²

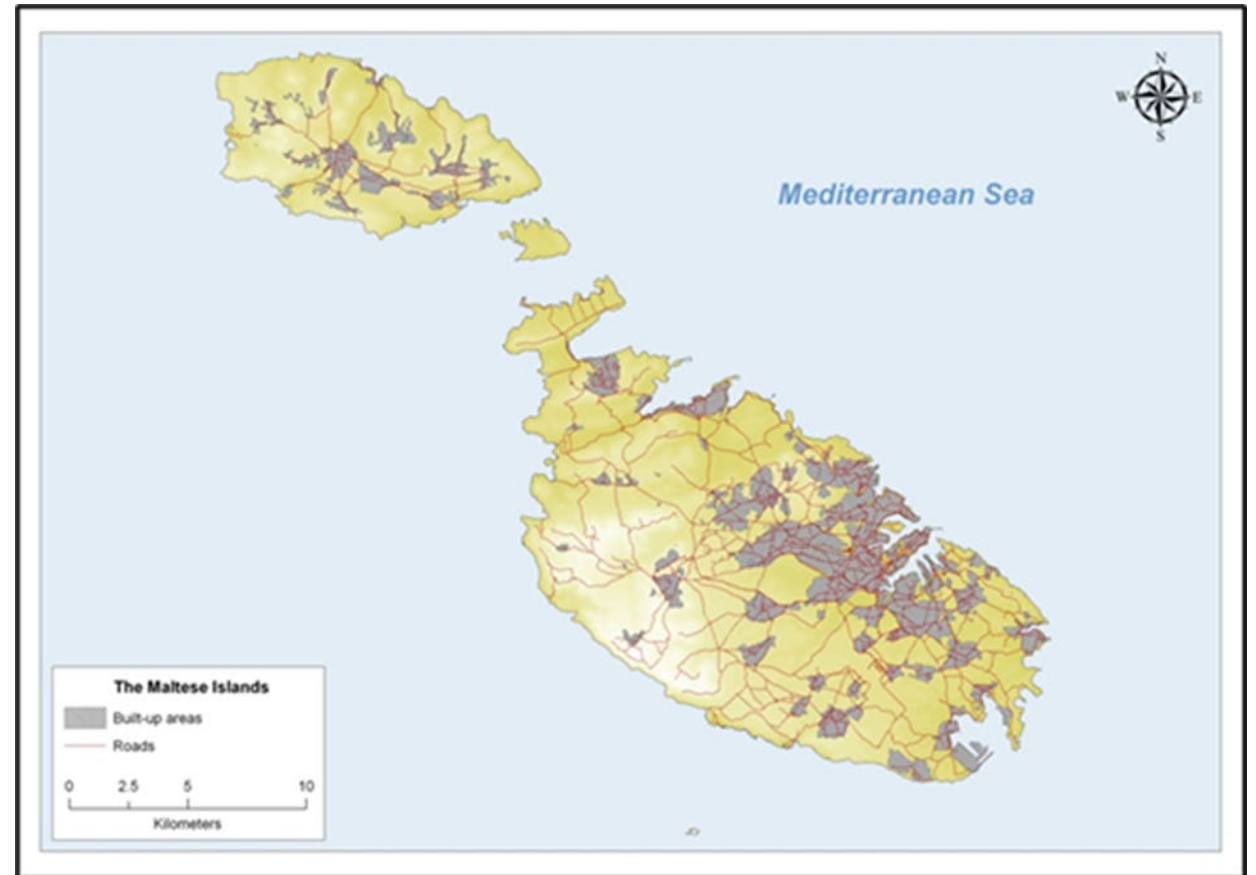
Urban land-cover: >25%

Climate: Semi arid Mediterranean

Mean Annual Rainfall: 550mm

High inter- and intra- annual variability

Natural water availability: 70m³/cap/day



Context

High Population
Density

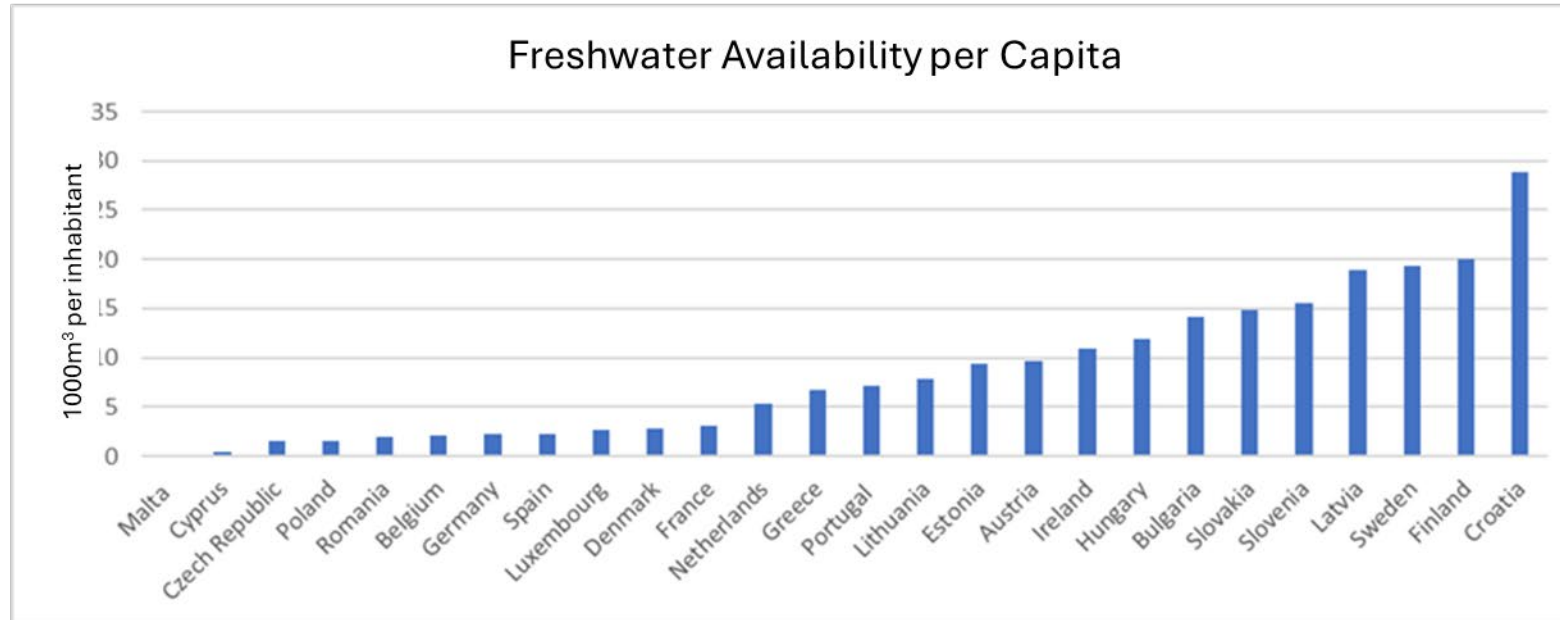


High Water
Demand

Semi-Arid
Climate



Low Availability of
Natural Resources

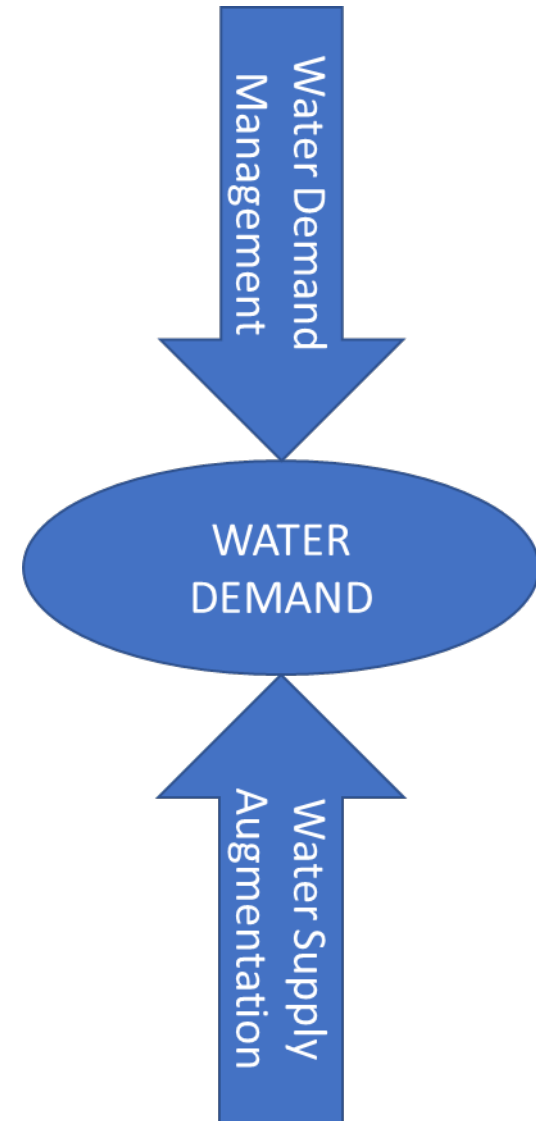


Water Policy Framework

Under conditions of water unavailability, development of a water management framework needs to start with acknowledging reality.

Even if water demands are kept at highly efficient levels, there is insufficient natural freshwater resources to sustainably meet national demand.

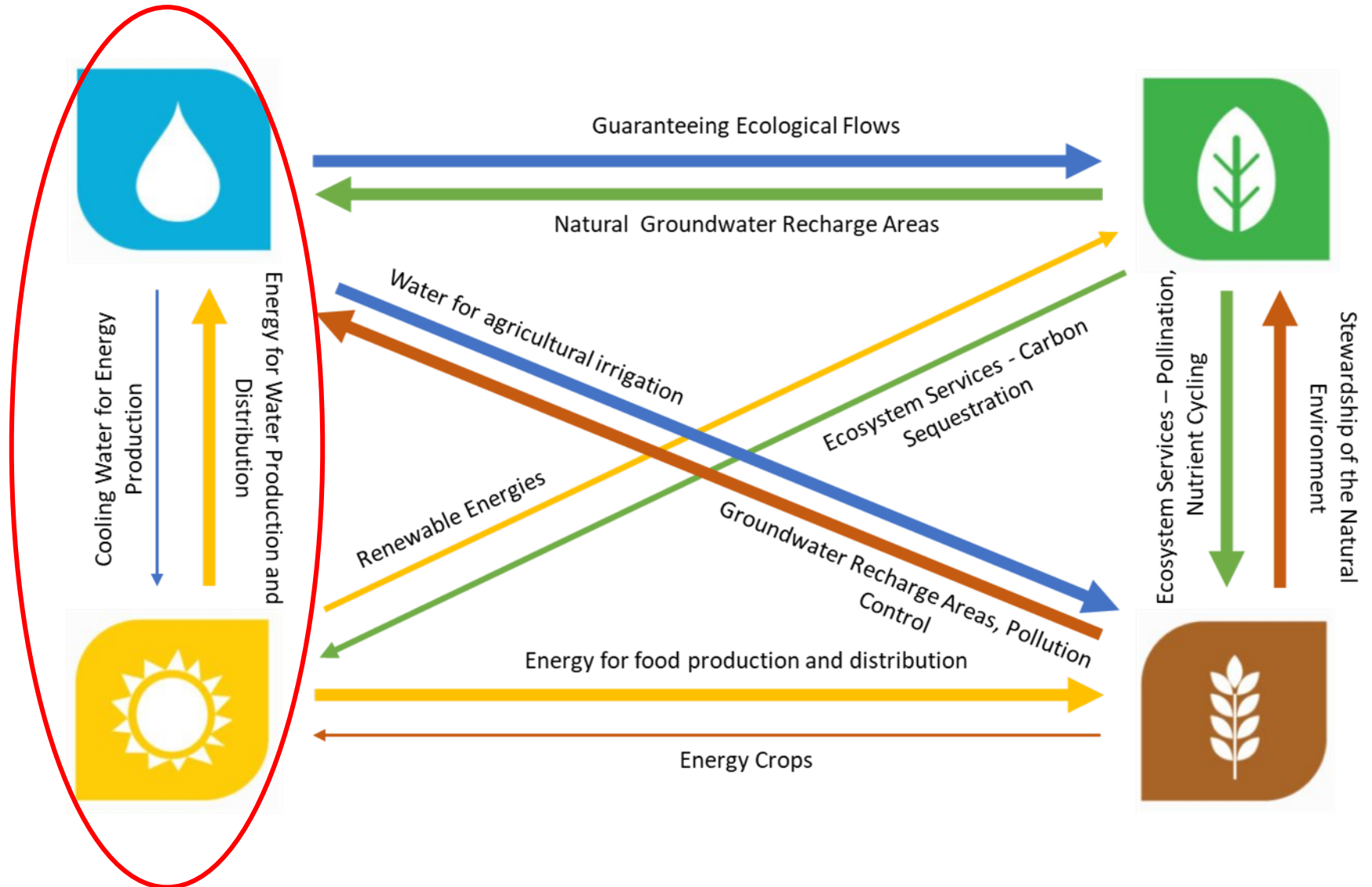
Malta's water management framework is based on a two-pronged strategy to achieve water security: meeting water demand through the conjunctive use of water supply augmentation and water demand management measures, in an increasingly sustainable manner.



NEXUS – Different Perspectives

NEXUS concept goes beyond the energy and water domains; linking up both sectors with food and ecosystems (WEFE concept).

Energy for Water link is of high relevance under Water Scarcity conditions.

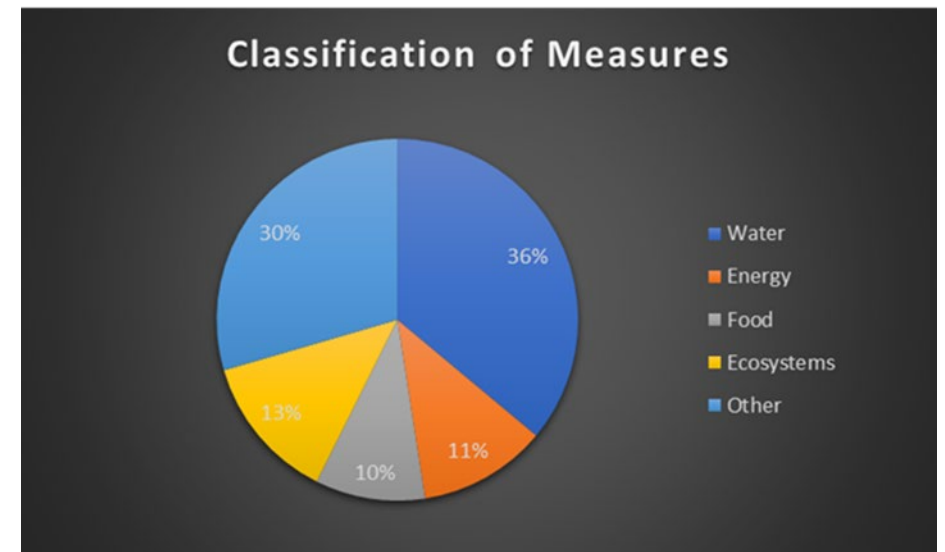
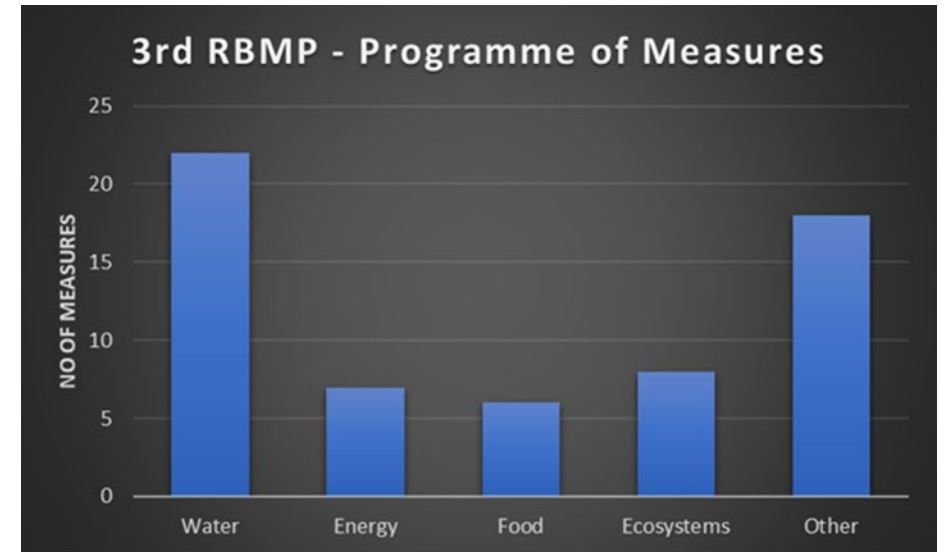


3rd RBMP

Includes measures addressing:

Security of supply for the agricultural sector
Energy efficiency in water services provision
Protection of water dependent ecosystems

Linking up the 3rd RBMP with the WEFEE Nexus.



3rd RBMP - SDGs

The Sustainable Development Goals (SDGs) provide the opportunity to consider “water” within a broad and comprehensive framework, which focuses on:

- the protection of water resources,
- the development of alternative water resources,
- the demands of various water users.

Key principles to be considered are:

- Supply augmentation (diversification)
- Demand Management
- Stakeholder Engagement
- Environmental Protection



RETOUCH NEXUS

REsilienT water gOvernance Under
climate CHange within the WEFE
NEXUS

www.retouch-nexus.eu



Monitor **water governance*** by providing a set of Nexus-smart indicators that reflect **multi-actor*** and **cross-sectoral*** interactions



Present and advocate more **integrated***, Nexus-based, climate-resilient water governance systems.



Design economically and financially sustainable cross-sectoral, **multi-level*** Nexus-based water systems



Promote and implement more transparent and inclusive water governance through innovative **engagement mechanisms***



Endorse upscalable and desirable Nexus-based water governance practices and **institutional settings***



Thank-you for your attention

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