



Global Summit

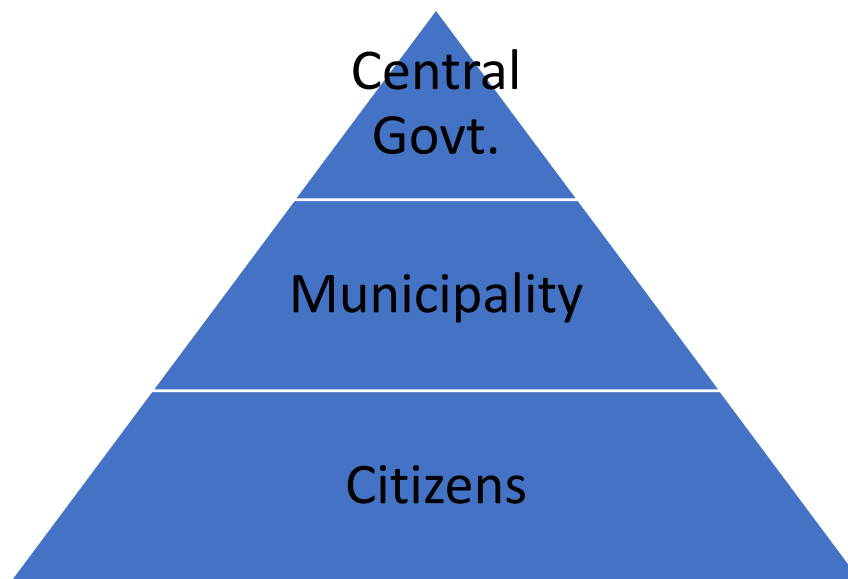
Asset-based Thinking in the Minaret Project

MINARET PROJECT OBJECTIVE



MINARET is **the first Project in the region** that focuses on

- finding sustainable solutions to the unique **water, energy and food** security challenges that face our MENA countries.
- By using a **nexus approach**
- Through a bottom- up approach: catalyzing the role **municipalities**



Ecosystem Services as Assets to Protect

Example - Monastir - Tunis

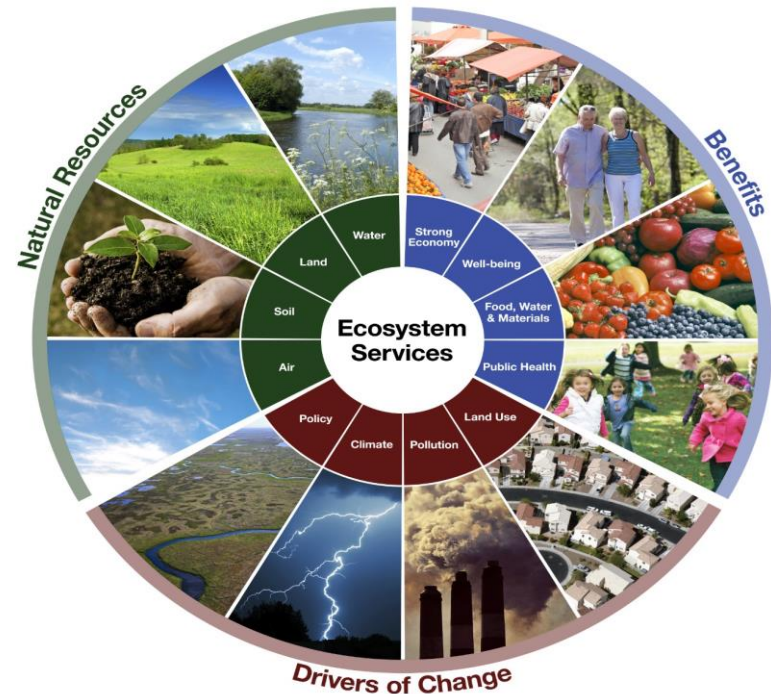
VALUING ECOSYSTEM SERVICES

Example - Monastir - Tunis

Direct Benefits / Assets:

We are willing to pay because of the utility that ecosystem service gives us.

- Water
- Fishery
- Salt
- Tourism & recreation





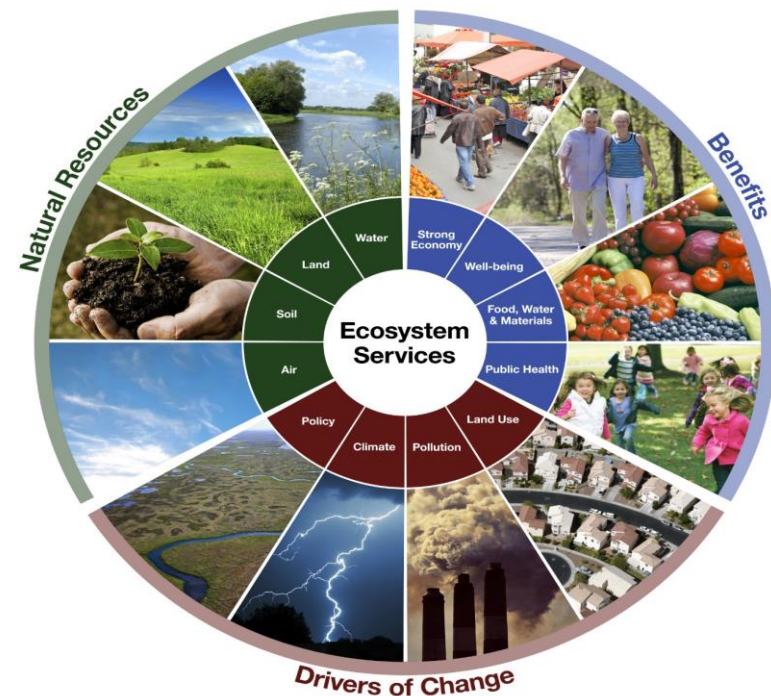
VALUING ECOSYSTEM SERVICES

Example - Monastir - Tunis

Indirect Benefits:

Willingness to pay depends on how much we perceive the utility of the service

- Flood Protection
- Protection of Biodiversity
- Pollutant Buffering
- Rainwater Harvesting & Improved water quality



VALUING ECOSYSTEM SERVICES

Example - Monastir - Tunis

- Population is Rapidly Rising
- Population increases 3-4 times during the summer due to Tourism
- Increased demand on water, energy & food

So

- Expand our building into wetlands
- Pump wetlands for water
- Increase fishery

VALUING ECOSYSTEM SERVICES

Example - Monastir - Tunis



Valuation is pricing the mismanagement of natural resources

VALUING ECOSYSTEM SERVICES



Direct Benefit – I Benefit – I Pay

Indirect Benefit – Everybody Benefits – Who Pays?

Direct Benefit – I Pay – I Receive Benefit

Indirect Benefit – I Don't Pay & Receive Benefit ... until I ***hurt***

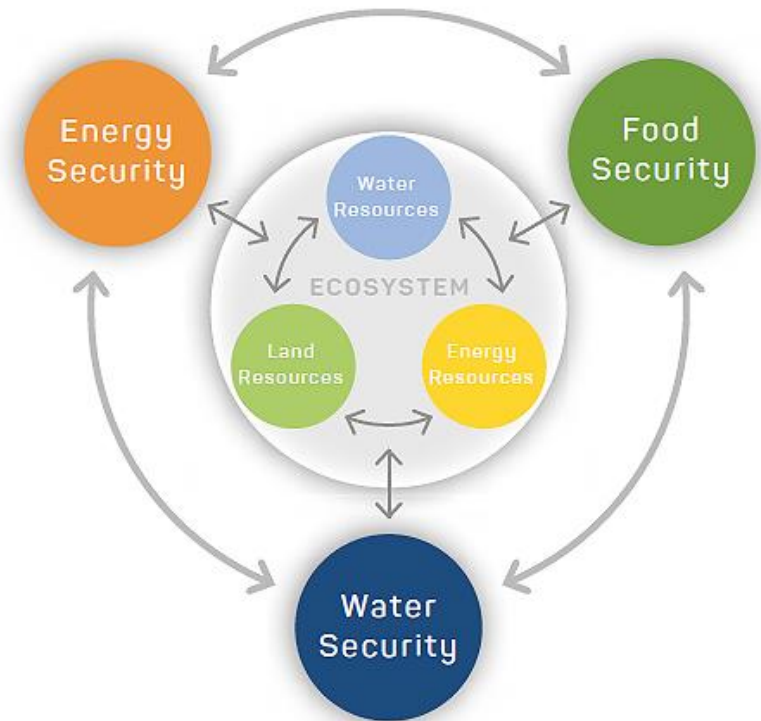
And Everybody Hurts

NEXUS for Protecting Ecosystem Services

WATER, ENERGY & FOOD NEXUS

- Water, energy and food are **deeply intertwined / interconnected**. The production of one requires the consumption of the other(s) and vice versa.

https://www.youtube.com/watch?v=CKW_uX2Xo_w



ENERGY AND WATER INTERDEPENDENCE

Water Shortages Are Harming Energy Production: by 2035, the world's energy consumption will increase by 35%, which in turn will increase water consumption by 85%, according to the International Energy Agency.

Agriculture is taking up too much water: Over 85% of the region's water use is dedicated to agriculture.



WATER, ENERGY & FOOD NEXUS

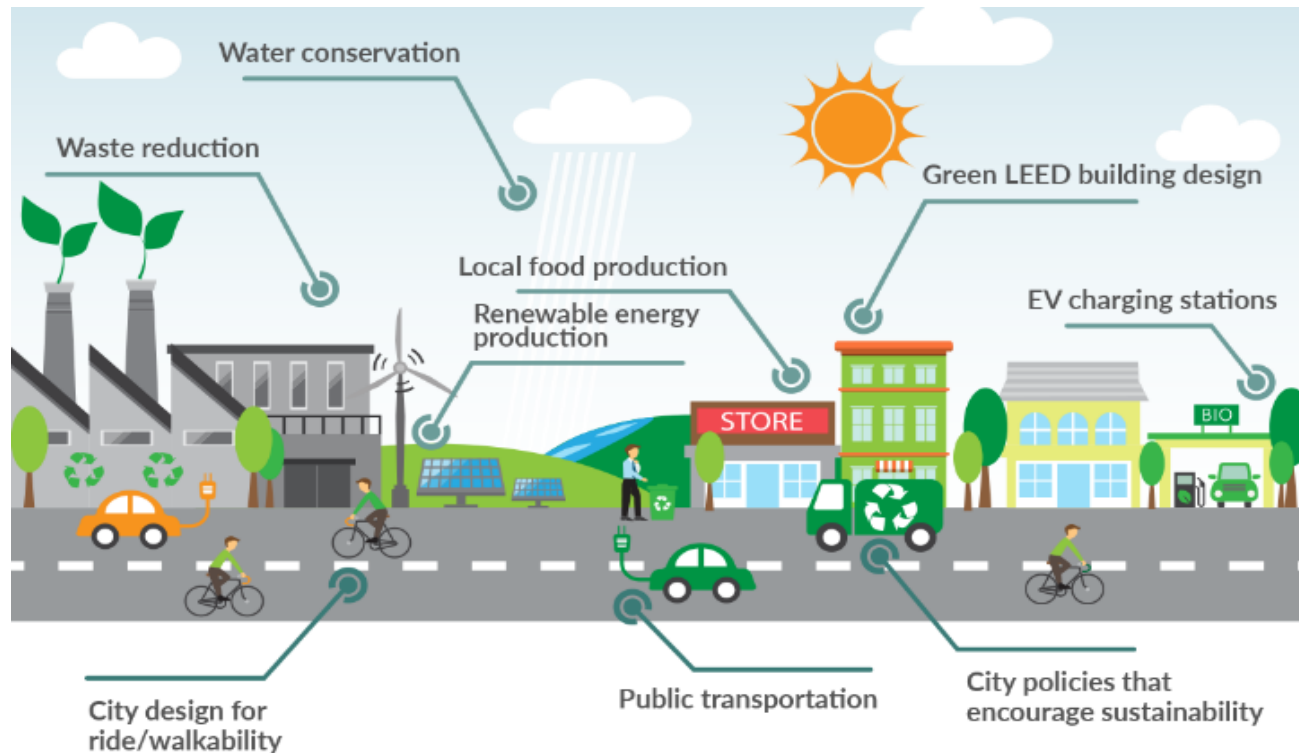


Do more with less
Protect natural resources

Municipalities

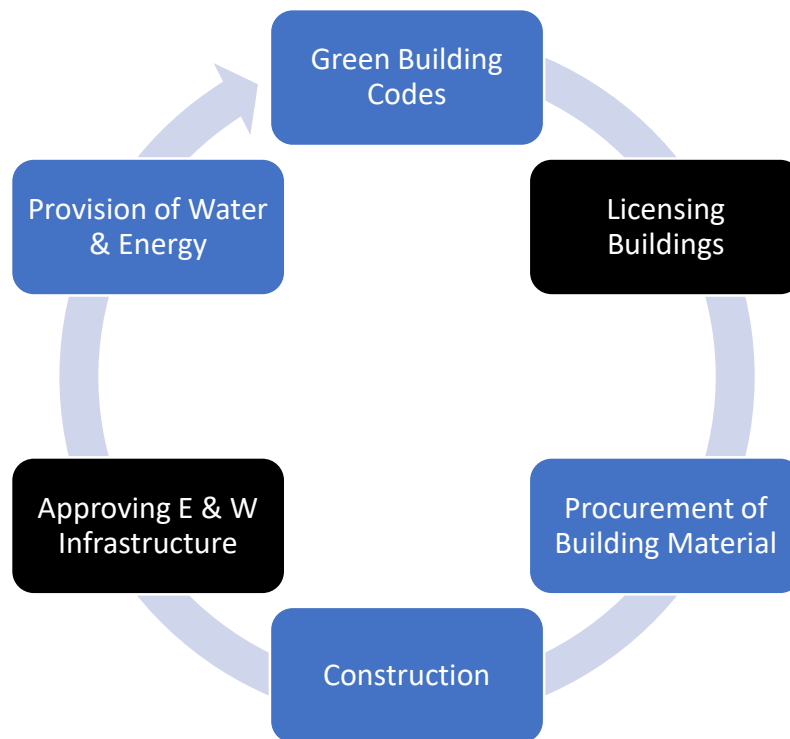
SOLUTIONS TO FACE CHALLENGES & OVERCOME OBSTACLES IN APPLYING NEXUS

Municipalities are Consumers



OPPORTUNITIES TO APPLYING NEXUS IN MUNICIPALITIES:

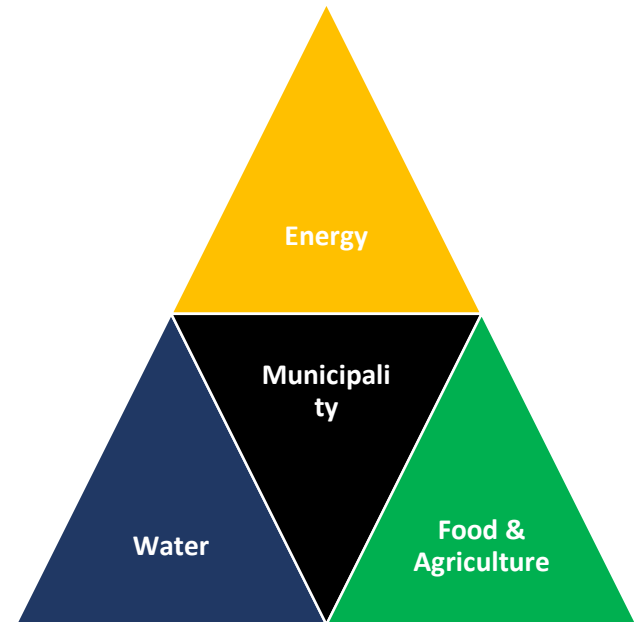
Even though water, energy, and food & agriculture are not within the municipalities' core mandate and responsibilities, they do have responsibilities to manage within parts of the entire cycle of water, energy, food & agriculture;



OPPORTUNITIES TO APPLYING NEXUS IN MUNICIPALITIES:

Role of Municipalities

- Municipalities have a developmental role which they can play and through that implement NEXUS projects in their relevant cities.



Municipalities: Tangible Assets

Example - Rainwater Harvesting in Monastir Tunis



Utilize the municipality stadium & catchment to collect rainwater and build a 1000 m³ rainwater harvesting reservoir.

Benefits:

- Avail 2700 litre a day all year long
- Prevent flooding
- Save municipality funds
- Provide municipalities with the water they need for greening
- Increase greening & reduce GHG emissions
- Reduce water use from wetlands
- Contribute in preserving wetland ecosystem services

Example - Rainwater Harvesting in Monastir Tunis



Natural Resource Asset:

- Rainwater

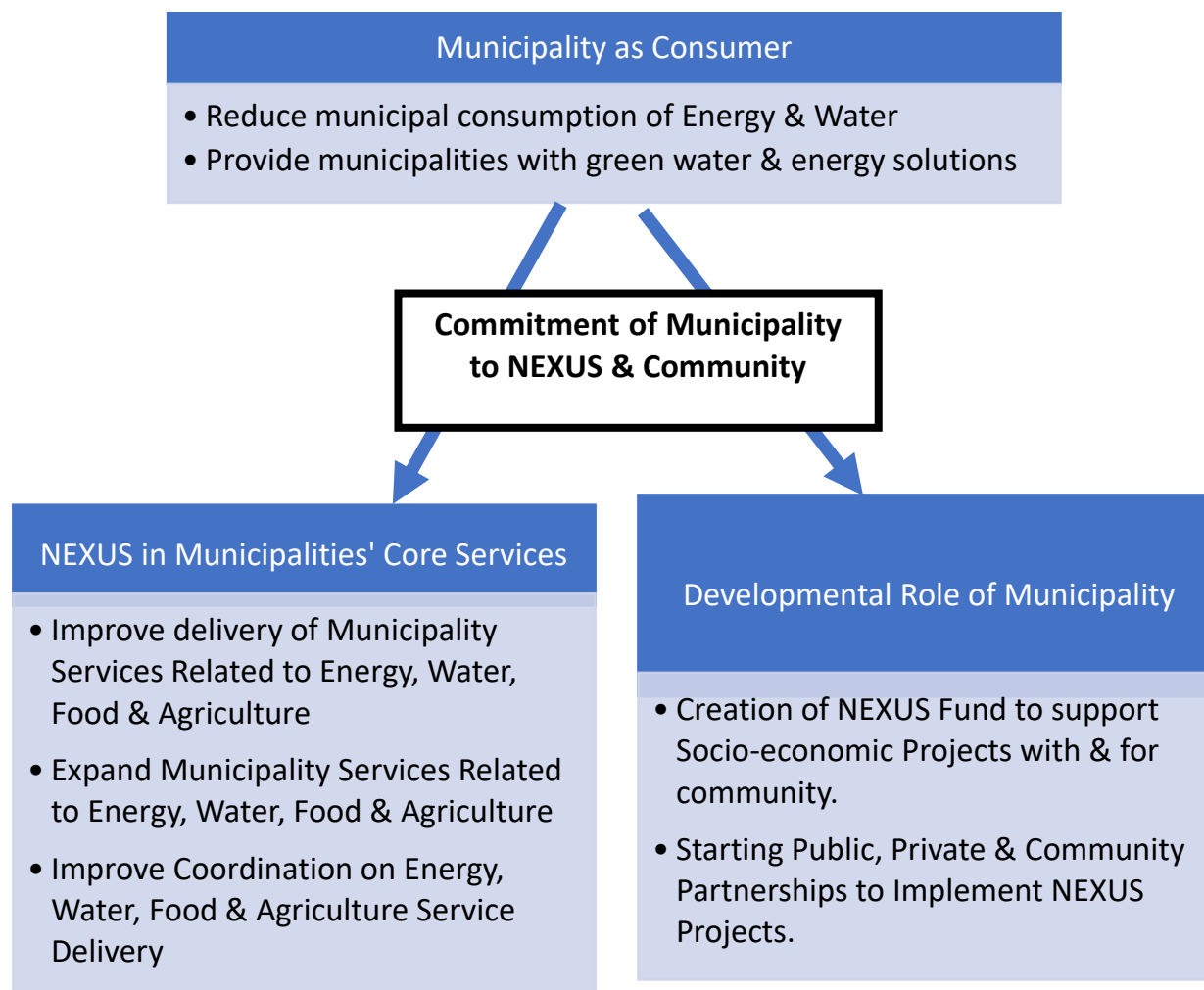
Municipality Assets:

- Ready-built stadium rainwater catchment system
- Land for building reservoir
- Tractors and equipment
- Qualified engineers for tendering & monitoring and evaluation

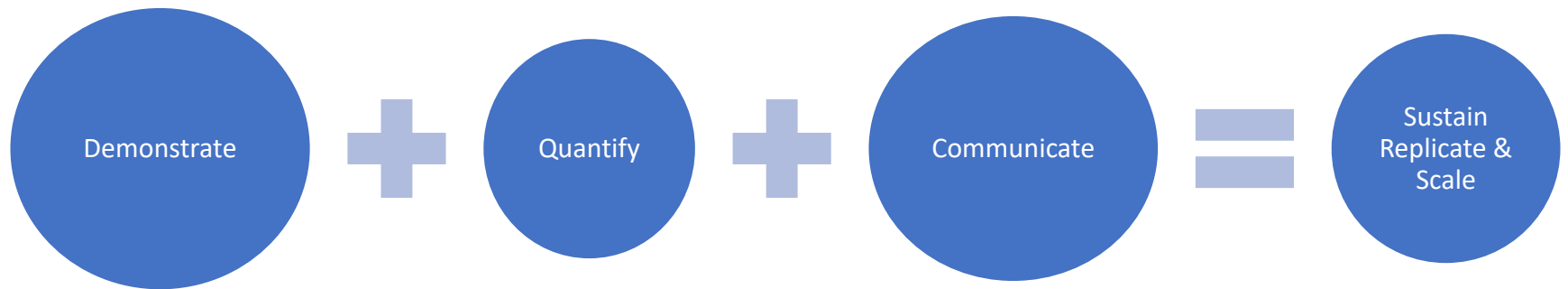
Project Asset:

- Money to build the rainwater harvesting reservoir

OPPORTUNITIES TO APPLYING NEXUS IN MUNICIPALITIES:



OPPORTUNITIES TO APPLYING NEXUS IN MUNICIPALITIES:



Municipalities: Intangible Assets

Example - Rainwater Harvesting in Monastir Tunis



an asset lacking physical substance and usually is very hard to evaluate

1. Know-how
2. Financial and administrative autonomy
3. Buy-in of Community
4. Commitment & Support
5. Initiative-taking & Accountability

Thinking about Assets

- Intangible assets are often viewed as less important than tangible assets.
- Intangible assets unlock tangible assets.
- Assets are in shortage in Individual / silo-thinking.
- Abundant assets collectively.





Thank you