

NICE Office

Future gaze

<http://www.ju.edu.jo>



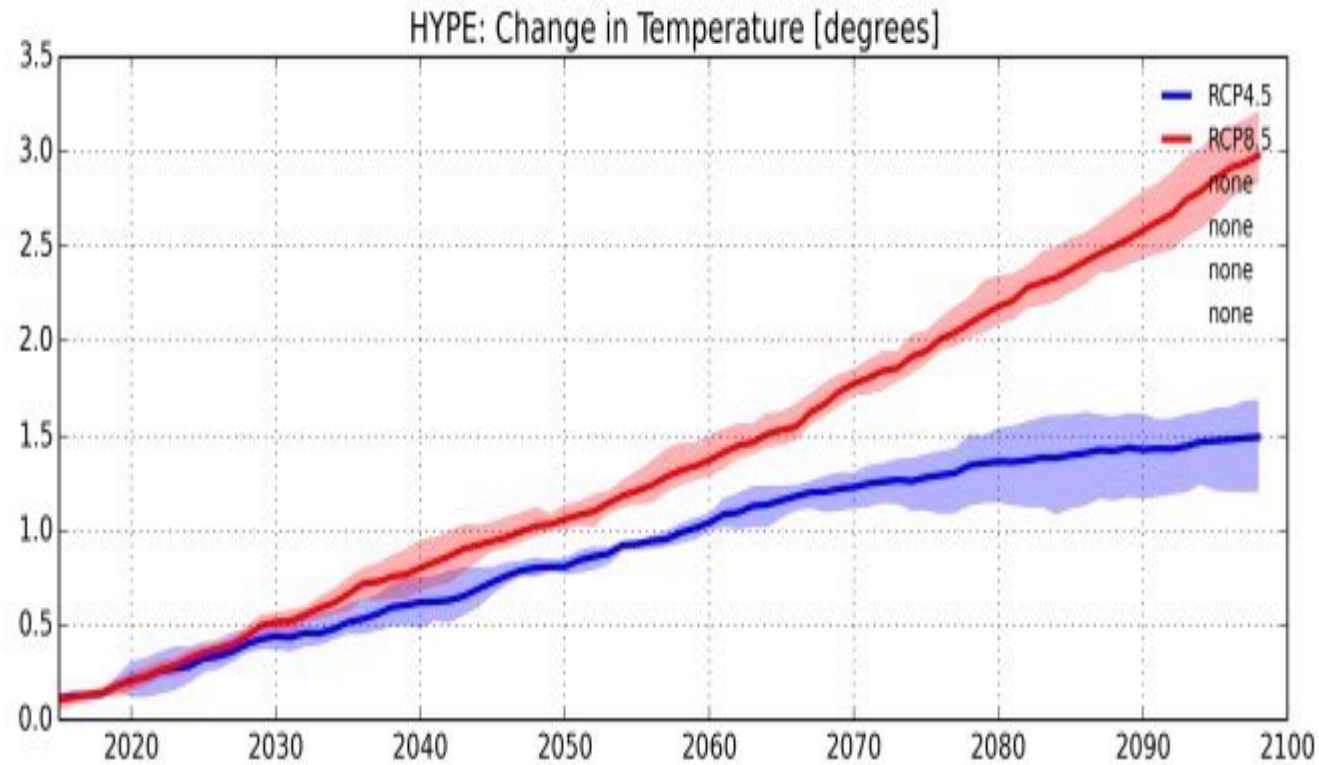
THE UNIVERSITY OF
JORDAN ^{QS}
★★★★



01 Rationale

02 Future of NICE

Climate change: Local level*



Temperature change for the Jordan River basin for two different climate change scenarios (RICCAR models)

- Mean and maximum temperatures will be 2-4 degrees higher
- precipitation will be 15-20% lower

- Climate change policy for resilient water sector (2106)

Impact on water and sanitation infrastructure

Reduced water resources (droughts, increased evaporation) and need for investment in additional infrastructures (reservoirs)

Insecure sanitation systems during flooding and high risk of contamination



Additional maintenance requirements for sanitation systems in droughts due to less water availability



Less water secured for agricultural sector
Water substitution policy (2016-2025)

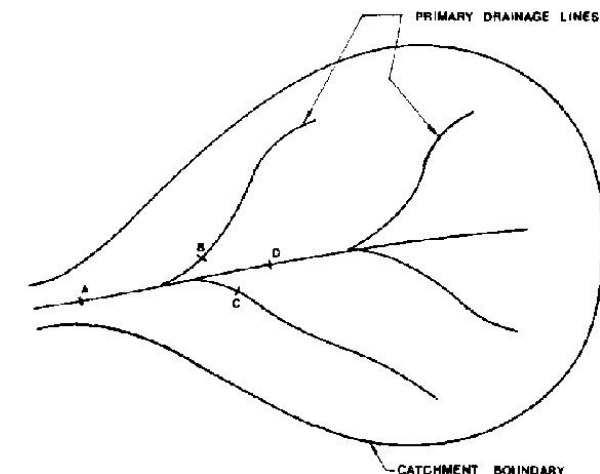
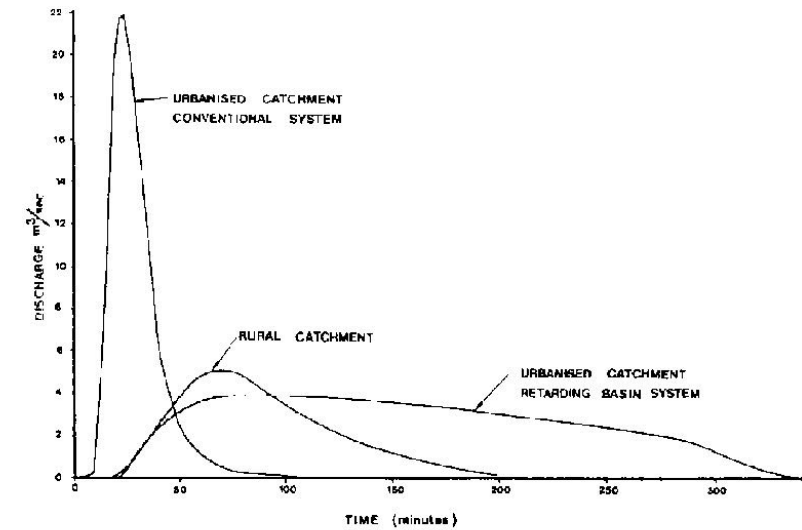
Water reallocation policy (2016-2025)



Increasing resilience to CC and C variability

First: Go smaller

- Decentralized systems are less exposed to risks associated with CC and climate variability: Conventional sewerage systems as an example
- Overall damage created due to extreme events will have relatively limited economic impacts (taking into account both infrastructure and health and economic consequences).
- In cases of human displacement resulting from regional political unrest or extreme natural events, decentralized systems might be the only available option



Increasing resilience to CC and C variability

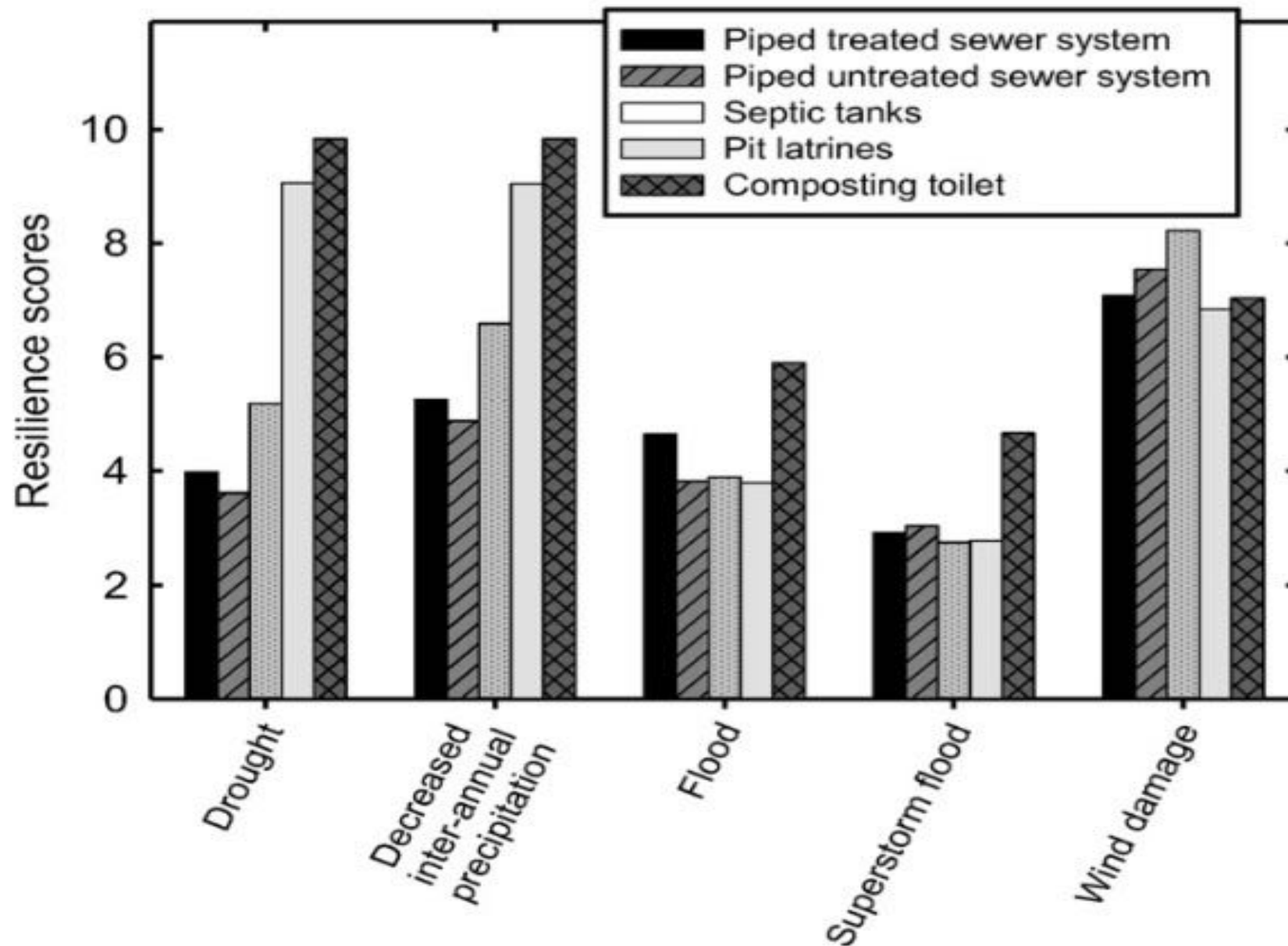
Second: Define boundaries
(sub-catchments, catchments):

IWRM: a guiding principle of
Jordan's water strategy and
addressed in SDG6 as well as
many other SDGs

More coordinated decision-making

- Across sectors
- And scale



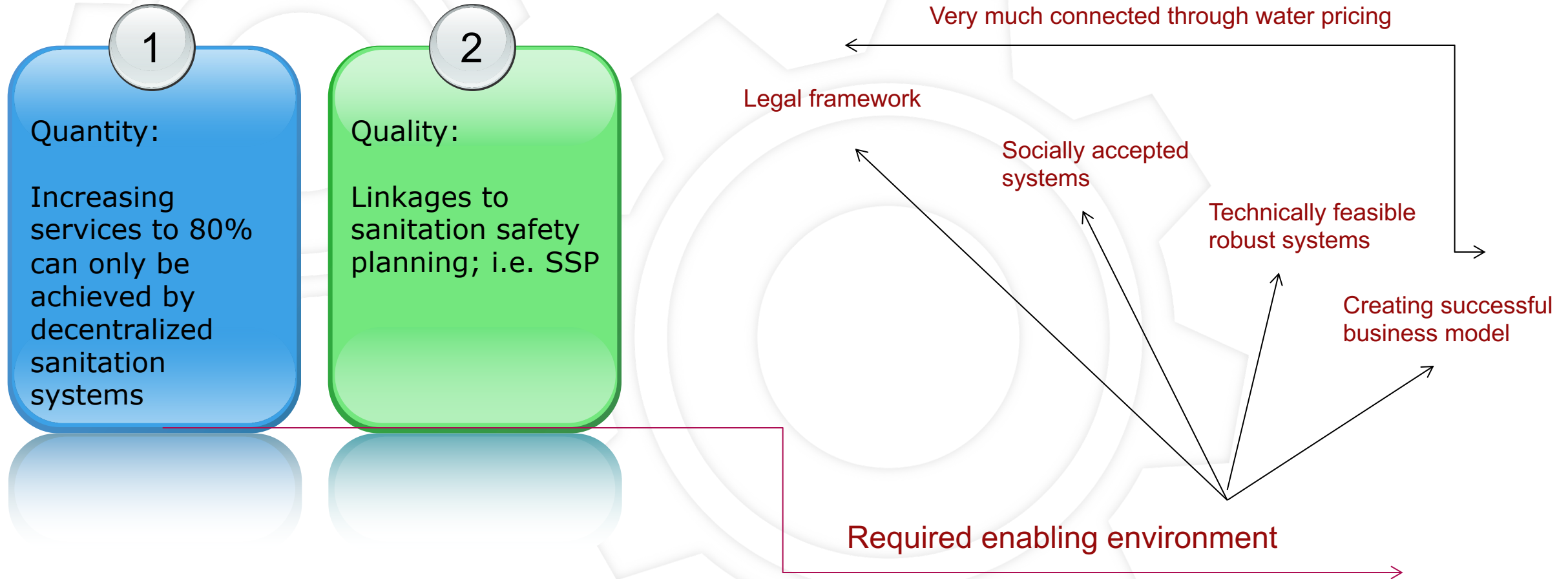


Third:

At technical level:
move towards more
resilient sanitation
systems

Luh et al., (2017)

Adaptation in Sanitation and reuse subsector in Jordan



NICE: future gaze

Formulating working groups
depending on the tasks

Implementation

Build on what had been already achieved:

1. Certification
2. Roles and responsibilities
3. Addressing other existing challenges

“Piloting DWWM (business model)”

Coordination role for WW
sector

Inter-ministerial committee

Addressing hot WW
challenges like O&M,
sludge management,
upgrading of WWTP, etc.

“Define priorities”



