The value of water in the eastern Netherlands

Christoph Euringer[1,2], Lara Wöhler[1], Robert-Jan den Haan[2], Rick Hogeboom[1], Mascha van der Voort[2], Markus Berger[1]

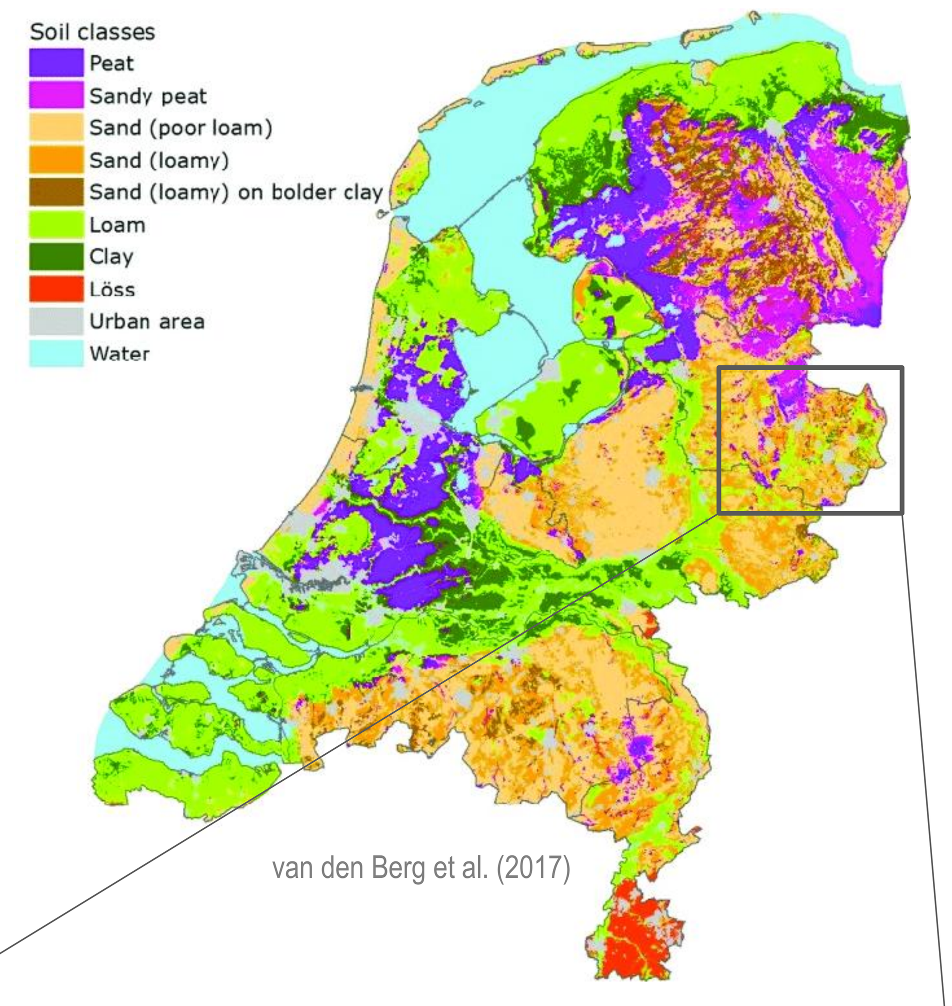
1) University of Twente; Department of Civil Engineering & Management; Multidisciplinary Water Management
2) University of Twente; Department of Design, Production & Management; Human Centered Design

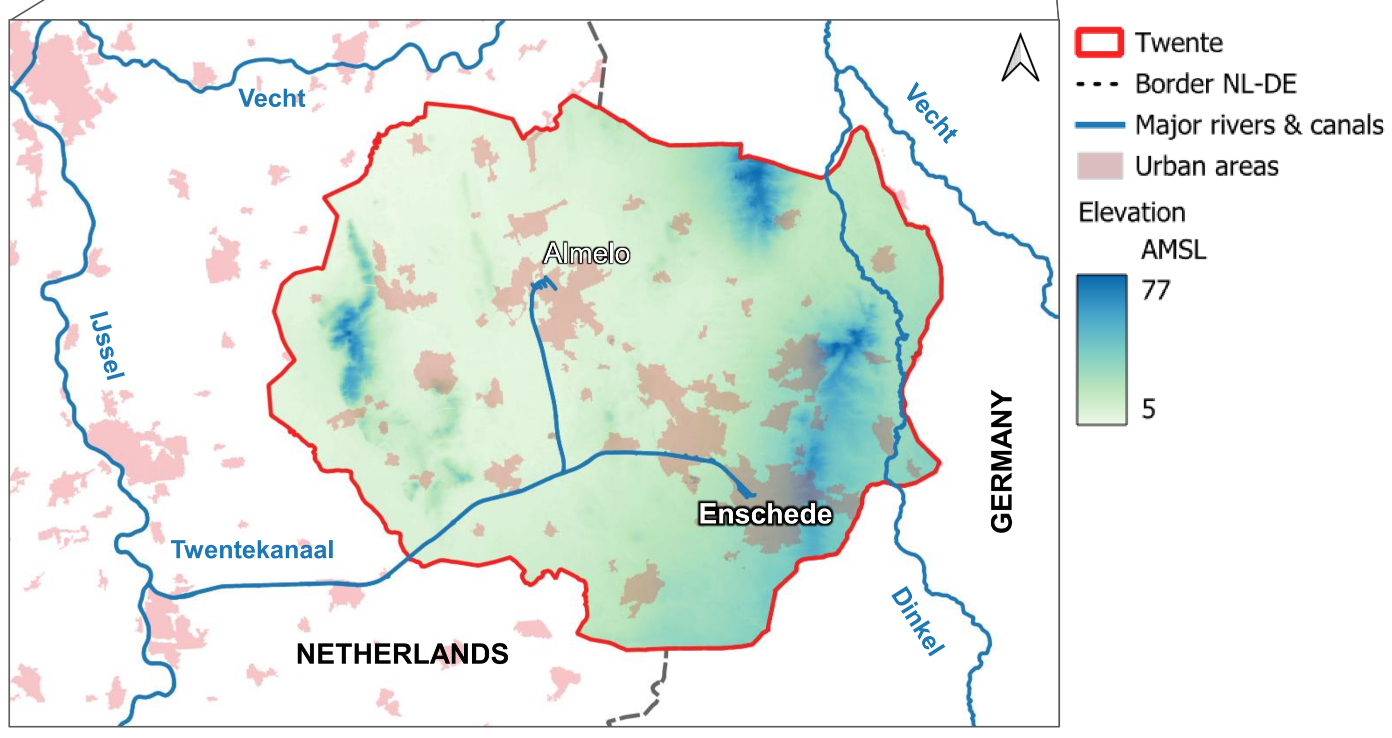
Background

- Drought and water scarcity are straining sustainable water management in vulnerable regions like Twente. It's sandy soils, which drain water quickly and retain little moisture, further increase this vulnerability. As climate projections indicate more intense seasonality, the region's dependence on limited groundwater resources faces growing challenges.
- Water use and allocation is often implicitly shaped by how managers and users value water economically, environmentally, and socio-culturally. Highlighting these values raises water scarcity concerns resulting in greater conservation tendencies.
- In contrast, conflicting or misaligned water values can hinder effective and climate-resilient management.

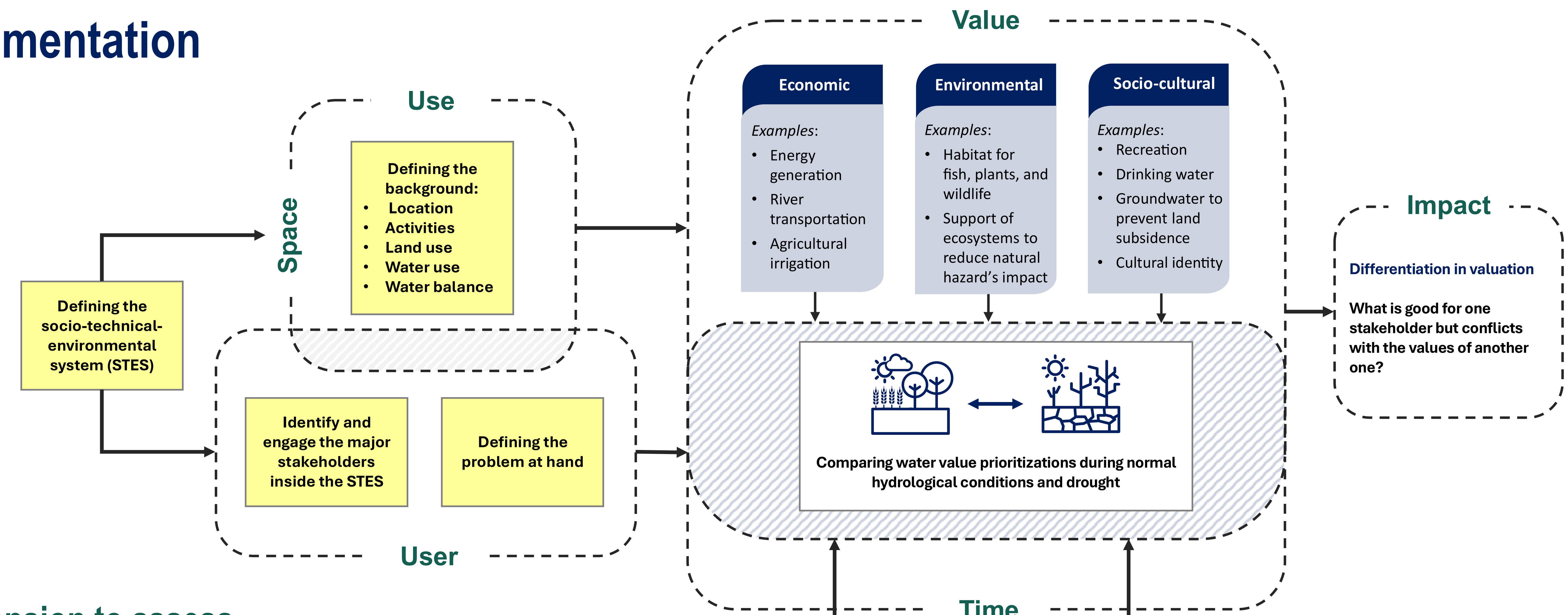
This raises the question:

Would a more explicit communication about water values improve a drought resilient water management in the Twente region?



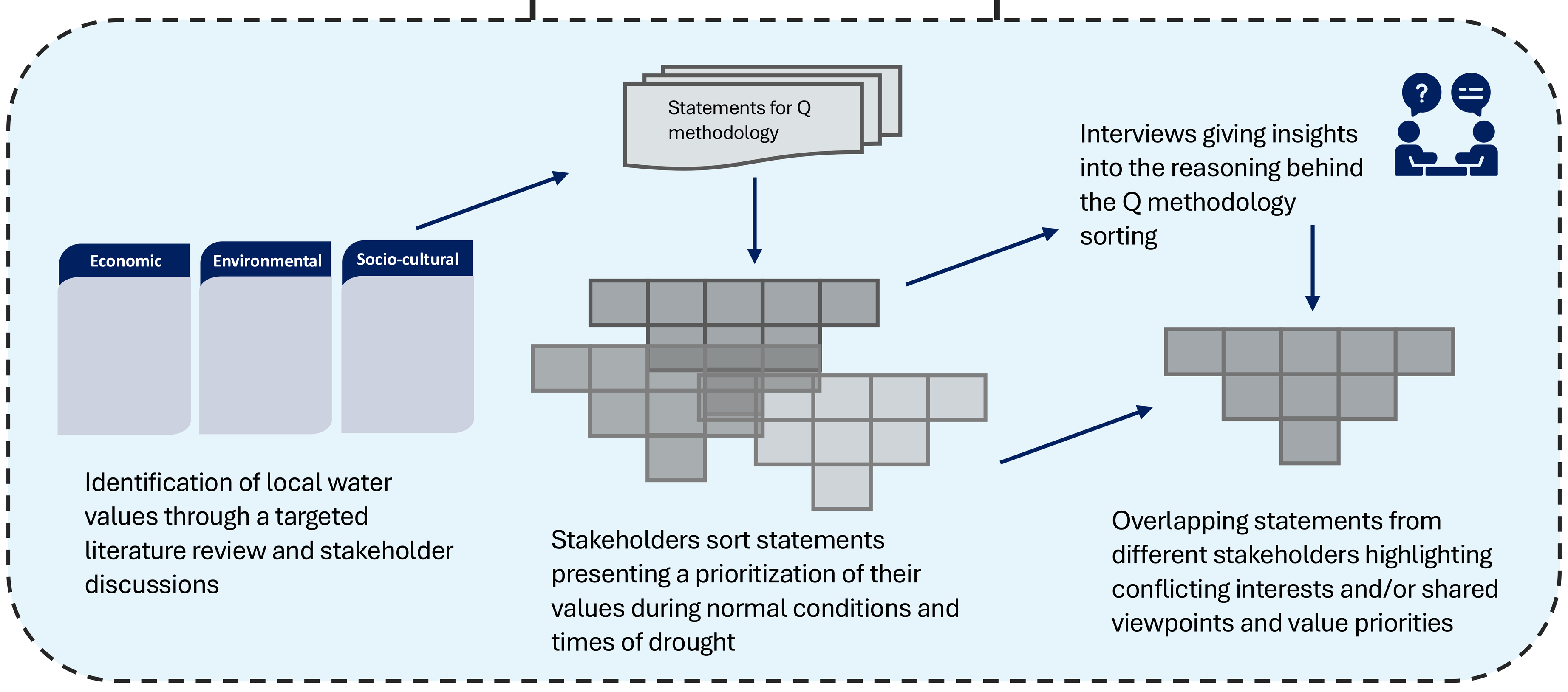


Implementation



Dimension to assess the value of water

Value: Which values are present?
Use: Value for what purpose?
User: Value for whom or what?
Space: Value in what place?
Time: Value at what time or over what period?
Impact: Value with what implication?



Methodology for the assessment of time-sensitive water value prioritization

Project information:

Contact information:
Christoph Euringer
c.euringer@utwente.nl
+31 53 489 5883

Project partners:

Vitens
Waterschap vechtstromen
twents waternet

UNIVERSITY OF TWENTE. | CLIMATE CENTRE