

EU CAP Network Workshop 'Circular water management'

Seville, Spain
12 - 13 March 2024



Funded by
the European Union

Inspirational example: Smart-SWS smart multifunctional water storage

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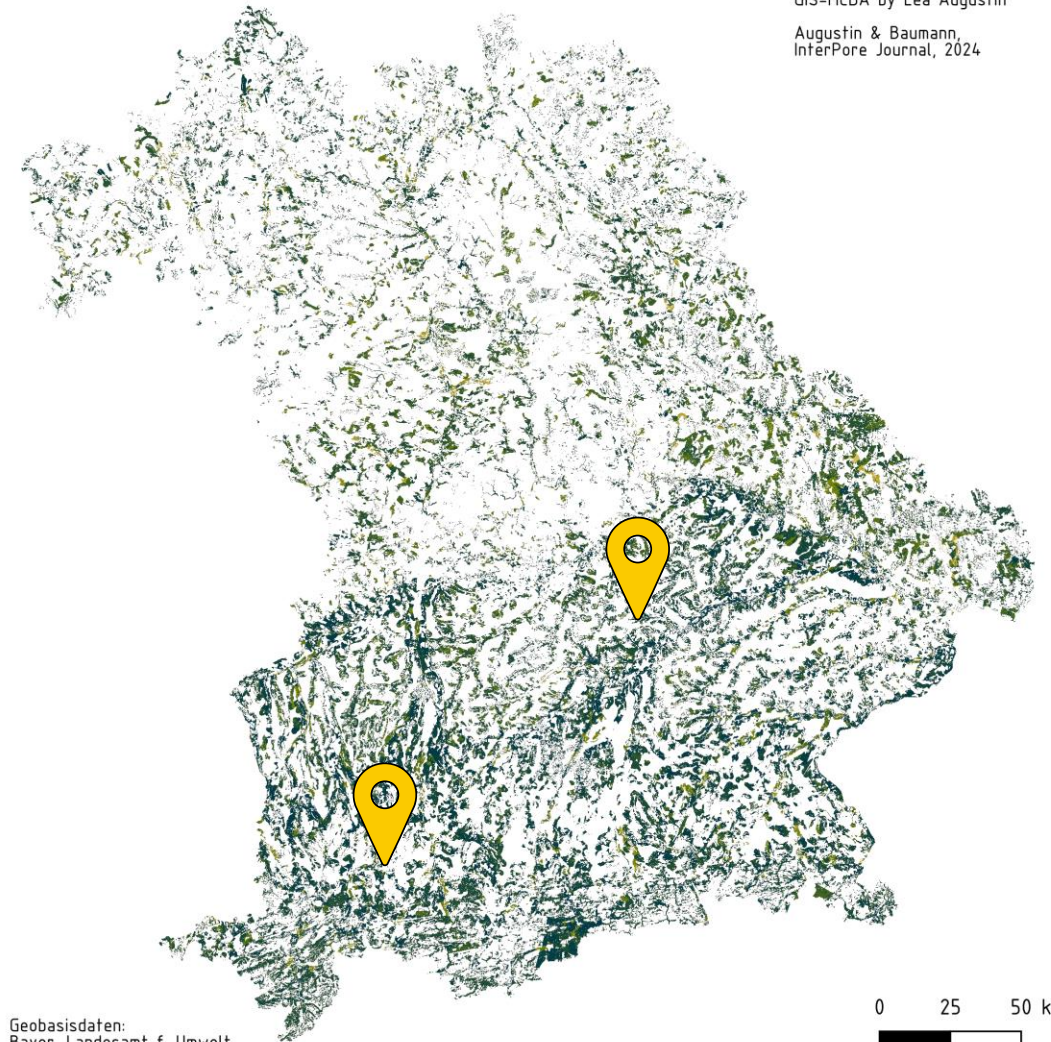
GIS-MCDA by Lea Augustin
Augustin & Baumann,
InterPore Journal, 2024

Smart-SWS

- › Bavaria, Germany
- › Project partners:



- › Sponsors:





Problems/challenges

Temperature rises

- Atmosphere water content increases

Soils

- dry out
- Less groundwater recharge



Precipitation

- More extreme events
- Less often/continuous



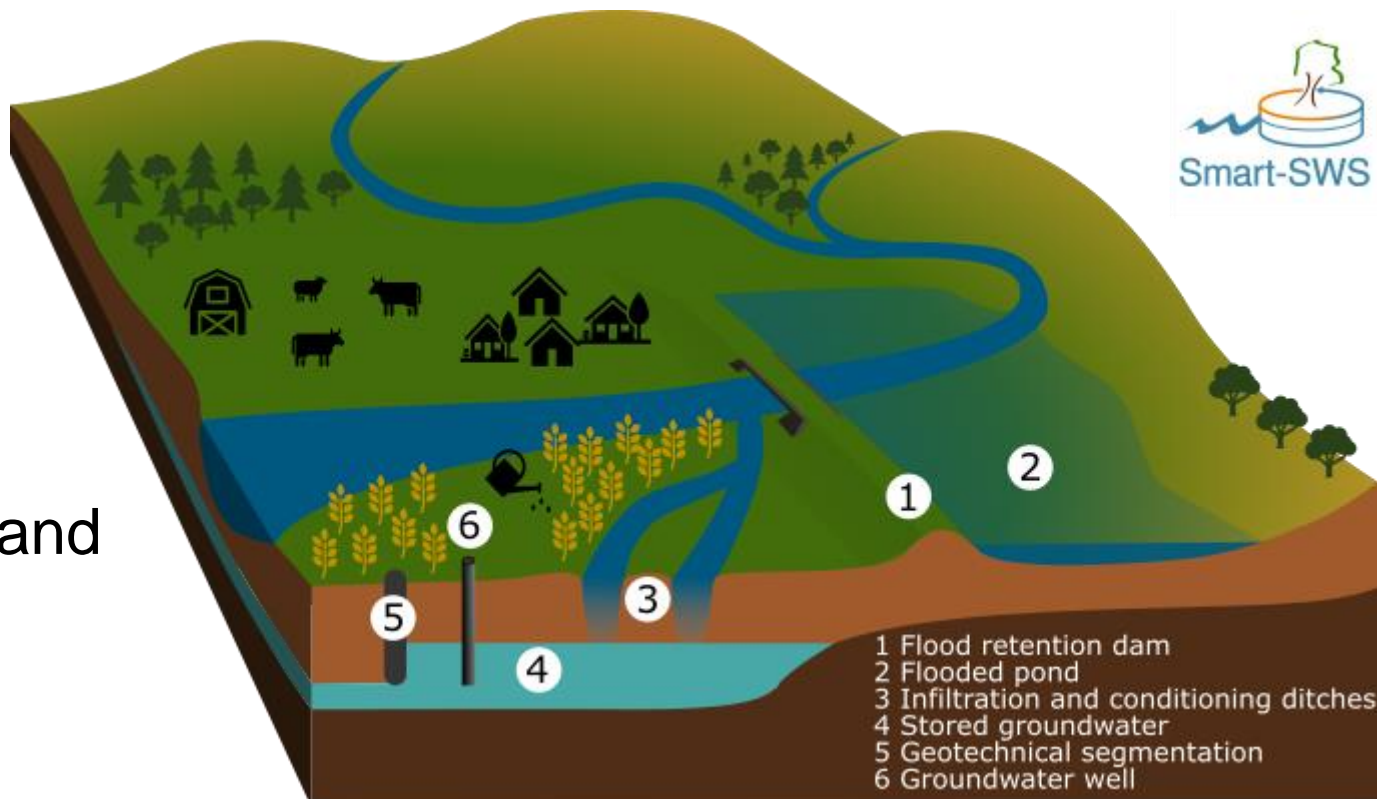
Surface Run-off

- increases
- Less infiltration



Activities

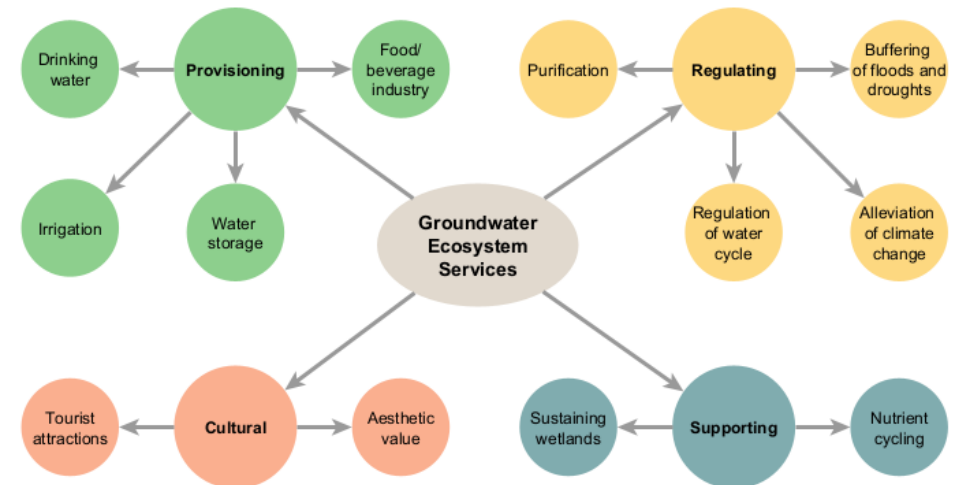
- Designing a technically augmented flood protection and drought prevention system
- Assessment of groundwater-dependent ecosystem services and long-term land use/land cover changes
- Designing a groundbased and airborne sensor and monitoring strategy





Results achieved

- GIS-based open data multi-criteria decision analysis for potential sites
- Hydrochemical monitoring of river water quality
- Hydraulic model of infiltration and storage
- Identification of relevant ecosystem services and their changes to a preindustrial state
- **Small-scale spin-off with farmtastic (Lena Käsbauer)**



Project website and contact person(s)

› <https://www.smart-sws.de/>

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All information on the workshop is available on the event webpage:

<https://eu-cap-network.ec.europa.eu/events/eu-cap-network-workshop-circular-water-management>

