

# Satellite-based, innovative sensor technology enables daily monitoring of groundwater distribution

E. Paula<sup>a,\*</sup>, B. Eder<sup>a</sup>

<sup>a</sup>MUnique Technology GmbH, Haager Str. 9, 81671 Munich, Germany

\*[info@munique-technology.com](mailto:info@munique-technology.com)

Geospatial World Forum 2026, RAI Amsterdam

# Content

- MUnique Technology
- Satellite Gravimetry
  - State of the art
  - Next-Gen
- Water & Disaster management

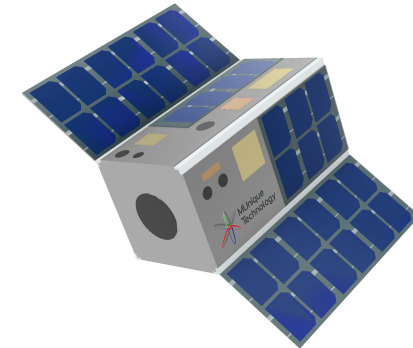


*A Munich-based DeepTech company founded in 2021  
by Elisabeth Paul and Dr. Bastian Eder.*

OUR VISION:

**“To unlock Next-Gen Satellite Gravimetry with  
real-time insights for water and disaster  
management”.**

DORT-Space

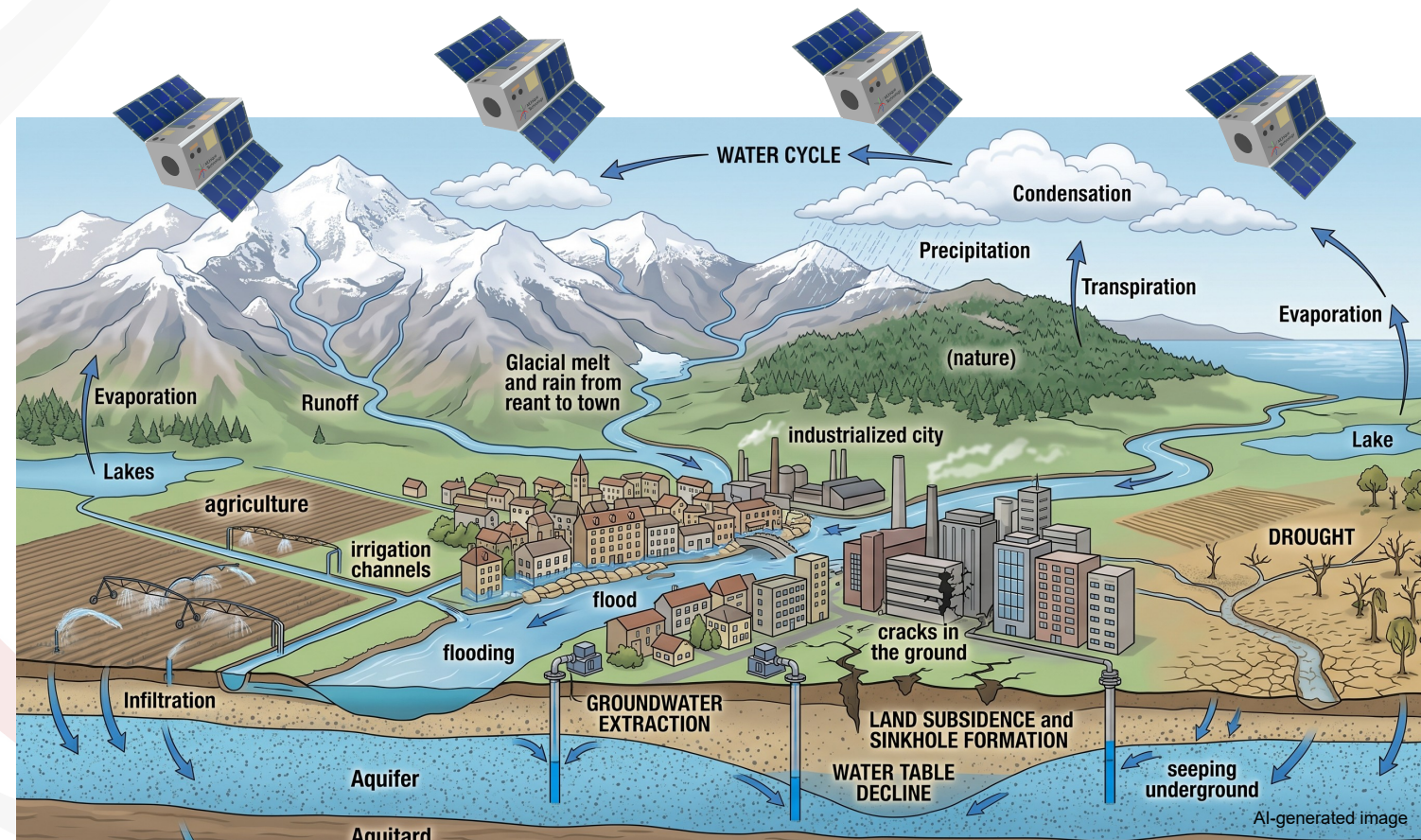


*“We are a multidisciplinary STEM team that combine strong R&D investment with out-of-the-box thinking to deliver tailored solutions for global challenges”.*

# The Power of Satellite Gravimetry

Its ability to “**see**” beneath the surface and monitor **global phenomena** that are invisible to other remote sensors

- ➔ Drought&Flood management
- ➔ Daily updated groundwater maps for real-time water risk evaluation
- ➔ Constant monitoring of water extraction quantities for authorities
- ➔ Early warning system for sinkholes and land subsidence

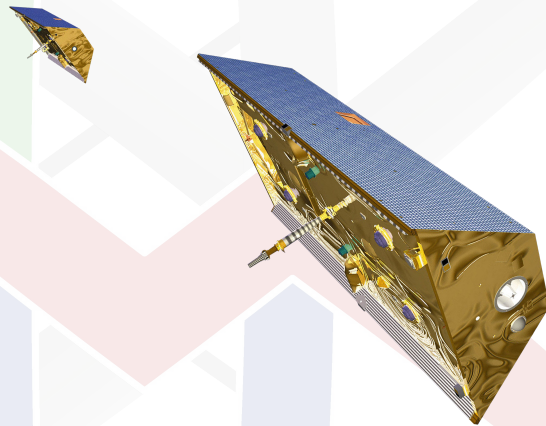


“ We’re pushing boundaries for higher resolution and real-time data.”

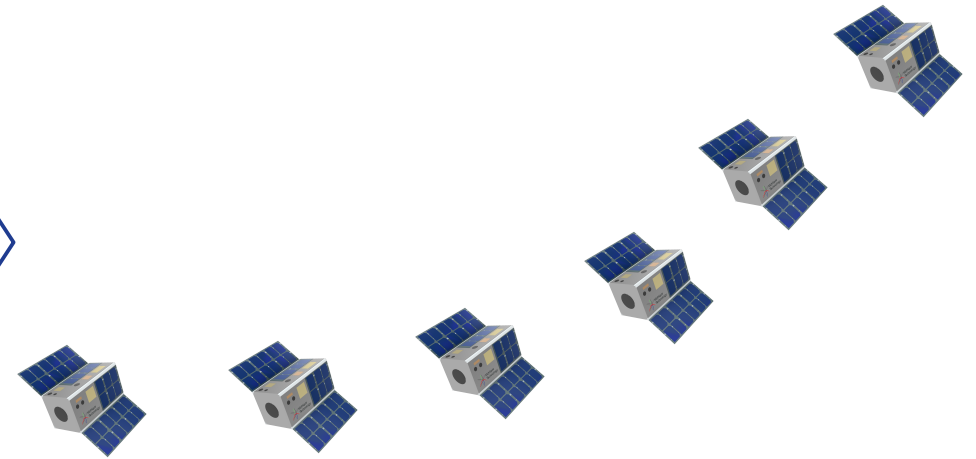


# DORT Space: Next-Gen Satellite Gravimetry

Satellite gravimetry is the **only method** with which the groundwater distribution on a global scale can be observed



Conventional satellites (GRACE-FO)  
deliver **monthly data**



Constellation of CubeSats with innovative  
**DORT technology** that enables **daily monitoring of groundwater distribution**

# Our approach provides a valuable contribution to water & disaster management



**A GLOBAL SOURCE**

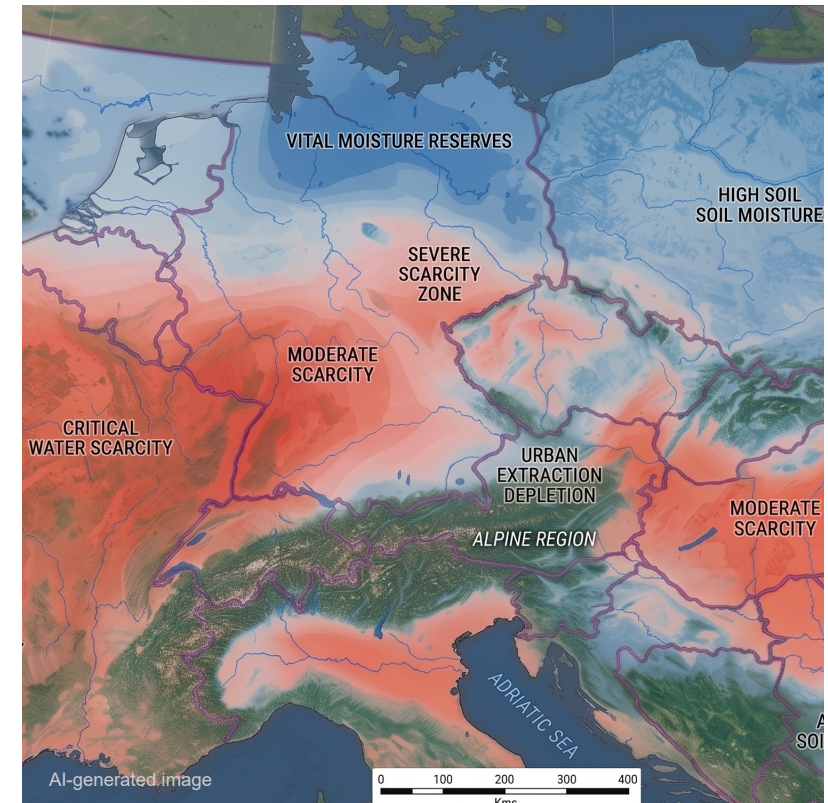
Vital for life on Earth yet highly vulnerable to climate variability and mismanagement

**OUR EDGE**  
Innovative sensor technology

**Better resolution** Higher SPATIAL and TEMPORAL data for real-time monitoring

**BETTER SOLUTIONS**  
FOR

- Governments → NPOs
- Private companies → Communities
- NGOs → Researchers



# Let's Collaborate!

We're seeking partners to:

- Scale impact in water & disaster management
- Integrate data with complementary technologies
- Pilot projects to demonstrate value



*Unlock Next-Gen Satellite Gravimetry together...*