...and success stories!

Challenges in transforming traditional weather services to the changing needs of society

Renate Hagedorn

Deutscher Wetterdienst | DWD



More extremes – growing vulnerability





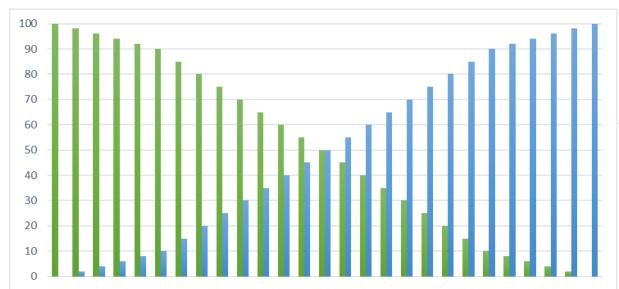
Al-generated image: https://chat.openai.com/



Digital Transformation





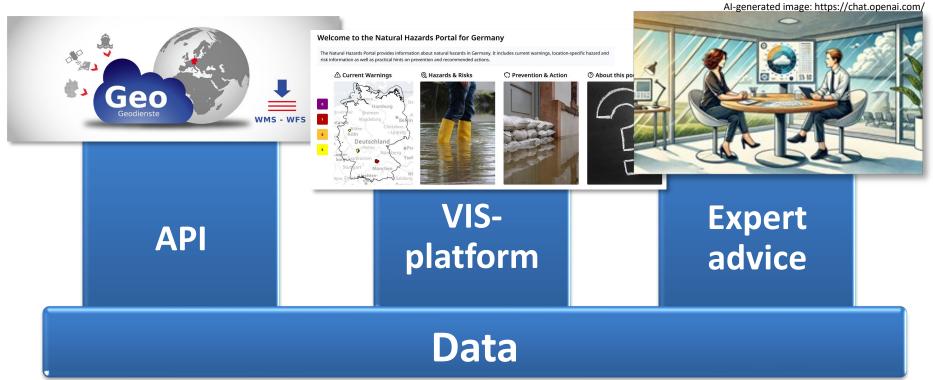






Focusing on three pillars





API



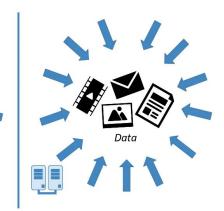
Challenges

- Vast and growing amount of data
- Rapid development of technologies
- Data to compute vs. compute to data

Success stories

Pooling resources...





to-the-edge-the-new-model-of-moving-compute-to-data/

...but still a long way to go!



Visualization platforms



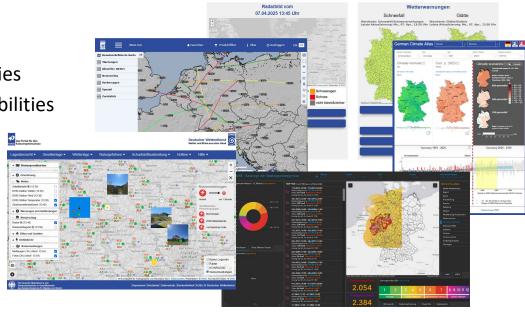
Challenges

- Legacy platforms
- Rapid development of technologies
- Focus on core tasks and responsibilities

Success stories

- Prioritize and decommission...
- Pooling resources...





Willkommen bei SWISinfo

...start the process, and don't loose focus!



New forms of consultancy

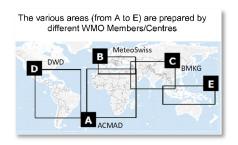


Challenges

- Transformation from traditional forecast provider to decision-making consultant
- Sector-specific expertise needed
- Definition of and focus on key customer

Success stories

- Embedded forecaster...
- International engagement... e.g. WCM



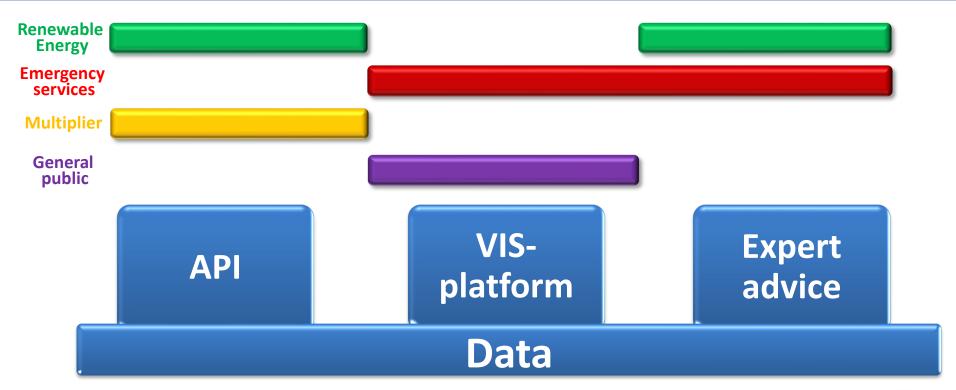


...open mind and life-long learning is needed!



Different user needs





Some thoughts for discussion



- Bridging the gap between the different pace of external requirements and internal response / adaptability
 - Requirements management, minimizing (manual) operational overhead
- Strategies for fostering innovation
 - Avoid silo mentality, join DEV <-> OPS <-> service
- Preserve vs. change
 - Start with trust in people, give them freedom, demand responsibility



Challenges in transforming science into action





June 2006: Dr Tim Palmer and the DEMETER team have been awarded the Norbert Gerbier Mumm International Award.

April 2025: The first version of the Natural Hazards Portal (NGP), initiated after the severe flooding event in July 2021, goes live!