



New challenges in drought management in Northern Bavaria

Expert workshop: Drought risk management in
the Alps

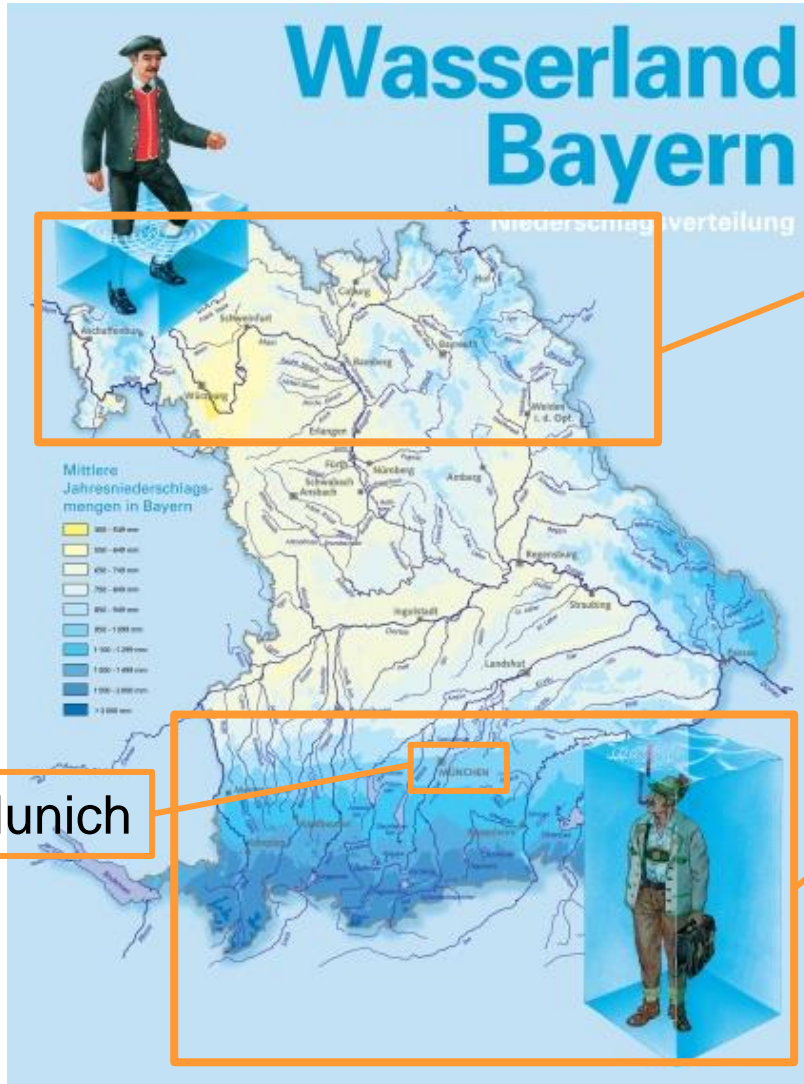
Water platform of the Alpine Convention

14. September 2017, *Ajdovščina, Slovenia*

outline

- Overview
- The water transition system
- Situation in 2015
- Current situation
- Effects of 2015 drought situation: new pilot funding programme
- Conclusion

overview

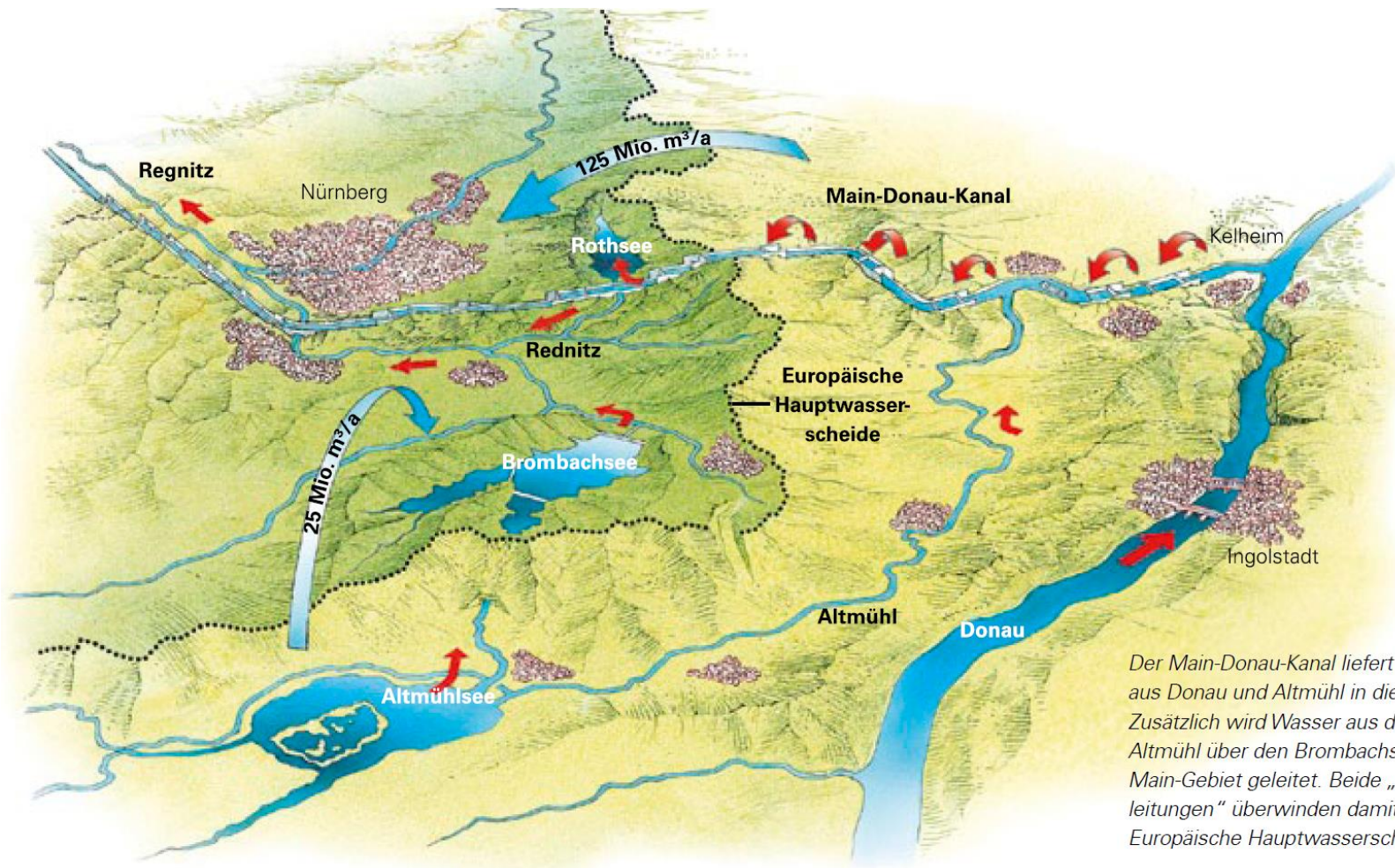


Some regions in Northern Bavaria: below 450mm precipitation per year

Average for Bavaria: 940mm precipitation per year

Alpine region: over 2000mm precipitation per year

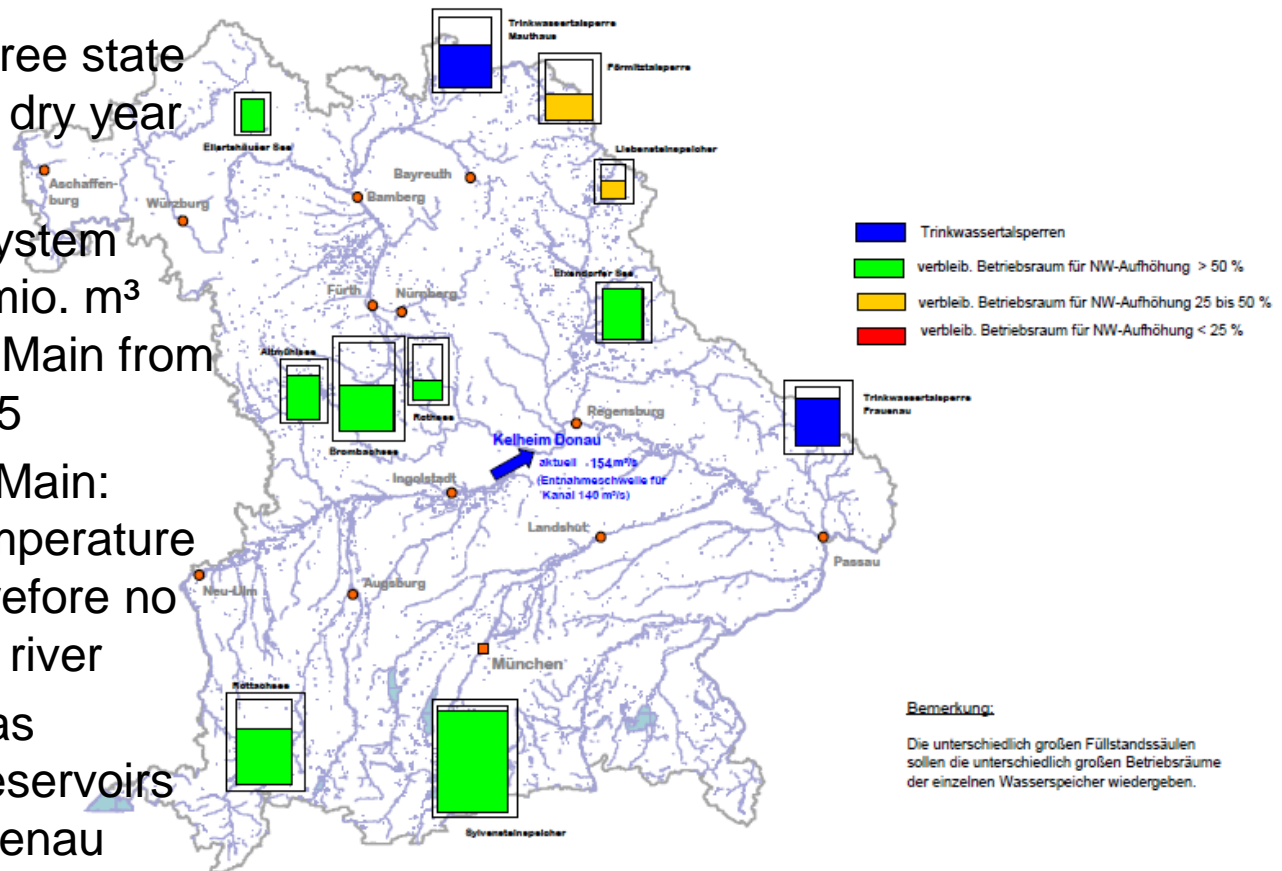
Water transition system



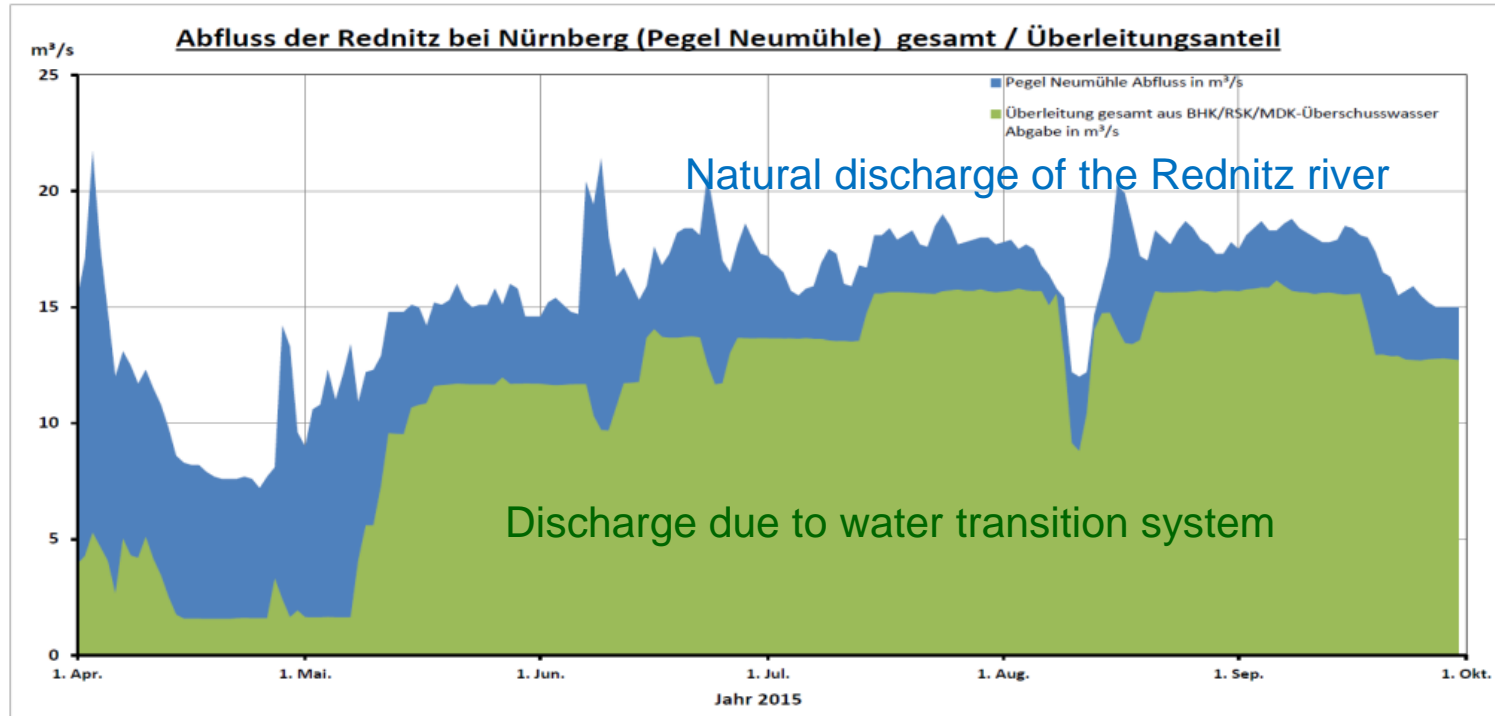
Der Main-Donau-Kanal liefert Wasser aus Donau und Altmühl in die Regnitz. Zusätzlich wird Wasser aus der Altmühl über den Brombachsee ins Main-Gebiet geleitet. Beide „Überleitungen“ überwinden damit die Europäische Hauptwasserscheide.

Situation in 2015

- The reservoirs of the free state functioned well during dry year of 2015
- The water transition system supplied around 200 mio. m³ water for Rednitz and Main from April – November 2015
- Ecological Alarmplan Main: warnings for water temperature and oxygen level, therefore no fish dieing in the Main river
- Fresh water supply was guaranteed through reservoirs in Mauthaus and Frauenau



Water transition system 2015

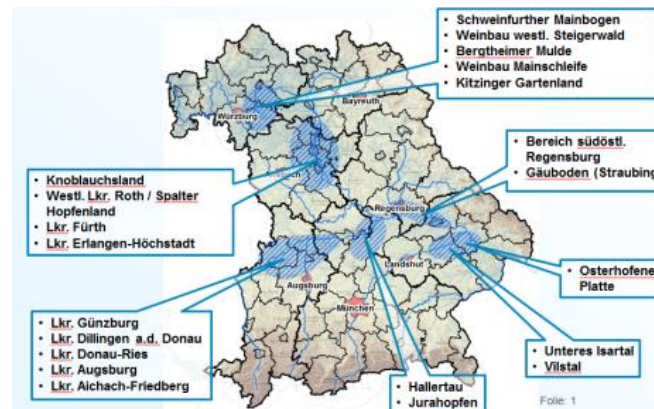


Current situation

- **Water scarcity rather new topic in „water land“ Bavaria**
- **Droughts in 2015 significant:** reduction in yields (especially Northern Bavaria)
- High irrigation needs in agriculture and presumably rising in the longterm due to increase in yield, quality demands and demand for regional products (especially vegetables) as well as climate change
- Local excessive use of water resources (e.g. Osterhofen)
- **2017: precipitation higher, but tendency that ground water levels partially strongly decreasing**
- Past winters especially in Northern Bavaria too dry: ground water formation very low

Pilot funding programme: agricultural use of water

- New programme by the Bavarian State Ministry for the Environment and Consumer Protection started in September 2016
- Goal: Developing of concepts for a sustainable and environmentally friendly use of water resources
- A maximum of 25 projects can be funded with 75%
- Application until 31.12.2017, project duration 2016-2020
- Around 15 formulated project ideas so far
- Contact and application: local water management offices



Conclusion

- Drought/water scarcity especially significant in Northern Bavaria
- Alpine part of Bavaria no problems so far
- **Newly formed Bavarian working group on Irrigation**
 - members: concerned water management offices, administration, Bavarian Environment Agency, Bavarian State Ministry for the Environment and Consumer Protection and State Ministry for Nutrition, Agriculture and Forestry
 - Working via Share-Point, one meeting so far (Sept. 16)
- Might gain more importance due to climate change



Foto: Schoberer, R. d. Opf.



Drip irrigation
Foto: Netafim.de

Thank you very much for your attention

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