

Drought in the Czech Republic and how do we deal with it

Veronika Matuszná
23 January 2018, Vienna



Situation in 2015/2016

- ❖ Deficit in rainfall 150 mm
- ❖ Short winter of 2016

Report on Drought in the Czech Republic in 2015

http://portal.chmi.cz/files/portal/docs/meteo/ok/SUCHO/zpravy/en_drought2015.pdf

Based on drought in 2015 main gaps were identified as following:

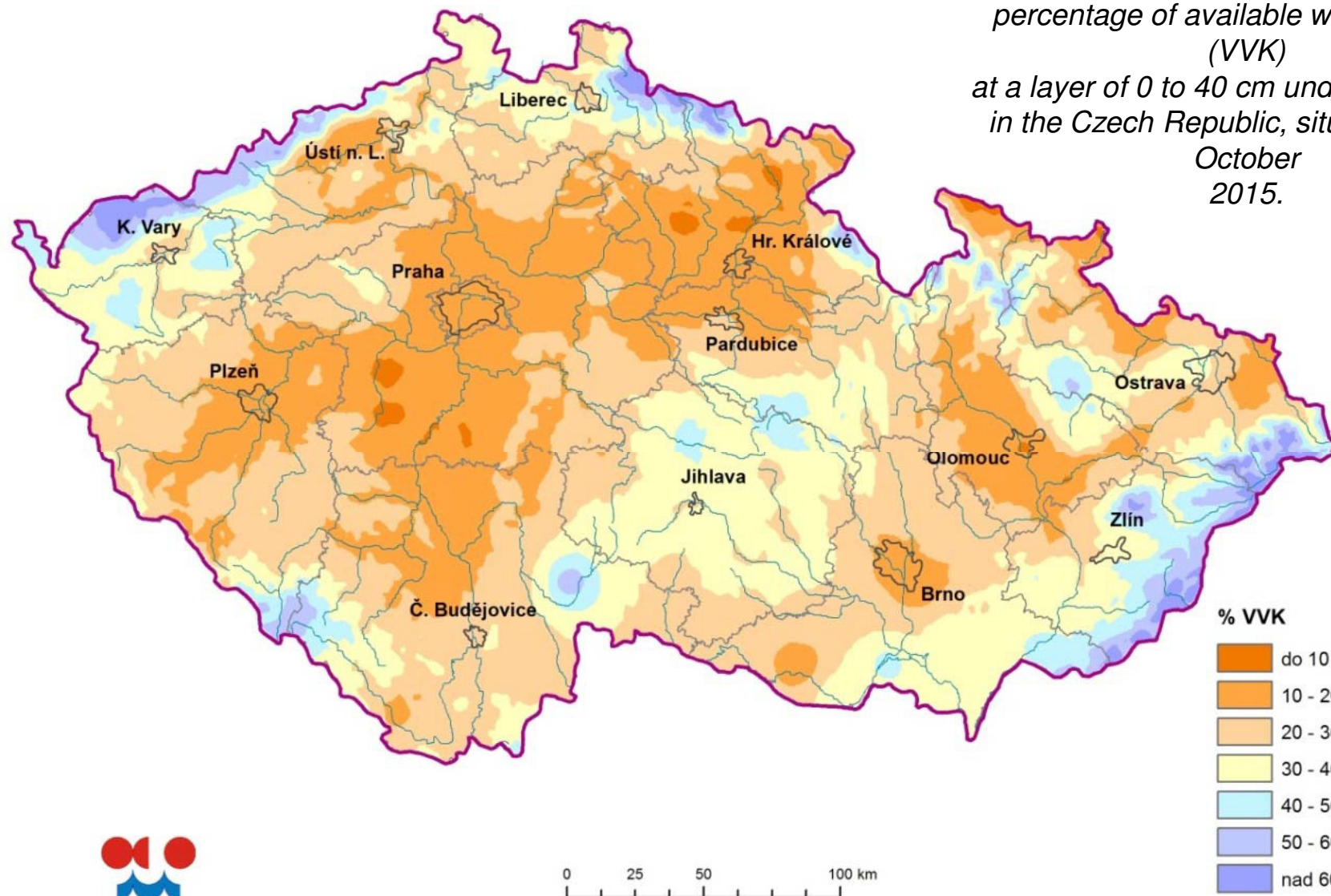
- ❖ Monitoring,
- ❖ Operative management during drought,
- ❖ Lack of legislation,
- ❖ No indicators for determination of drought intensity,
- ❖ Unsafficient awariness of public and decision makers.



Impacts of the drought in 2015

Modeled soil moisture expressed as a percentage of available water capacity (VVK)

at a layer of 0 to 40 cm under grass cover in the Czech Republic, situation as of 4 October 2015.



Ministry of the Environment
of the Czech Republic

0 25 50 100 km

Ministry of the Environment
Vrsovice 65, 100 10 Prague 10
Czech Republic

www.mzp.cz/en



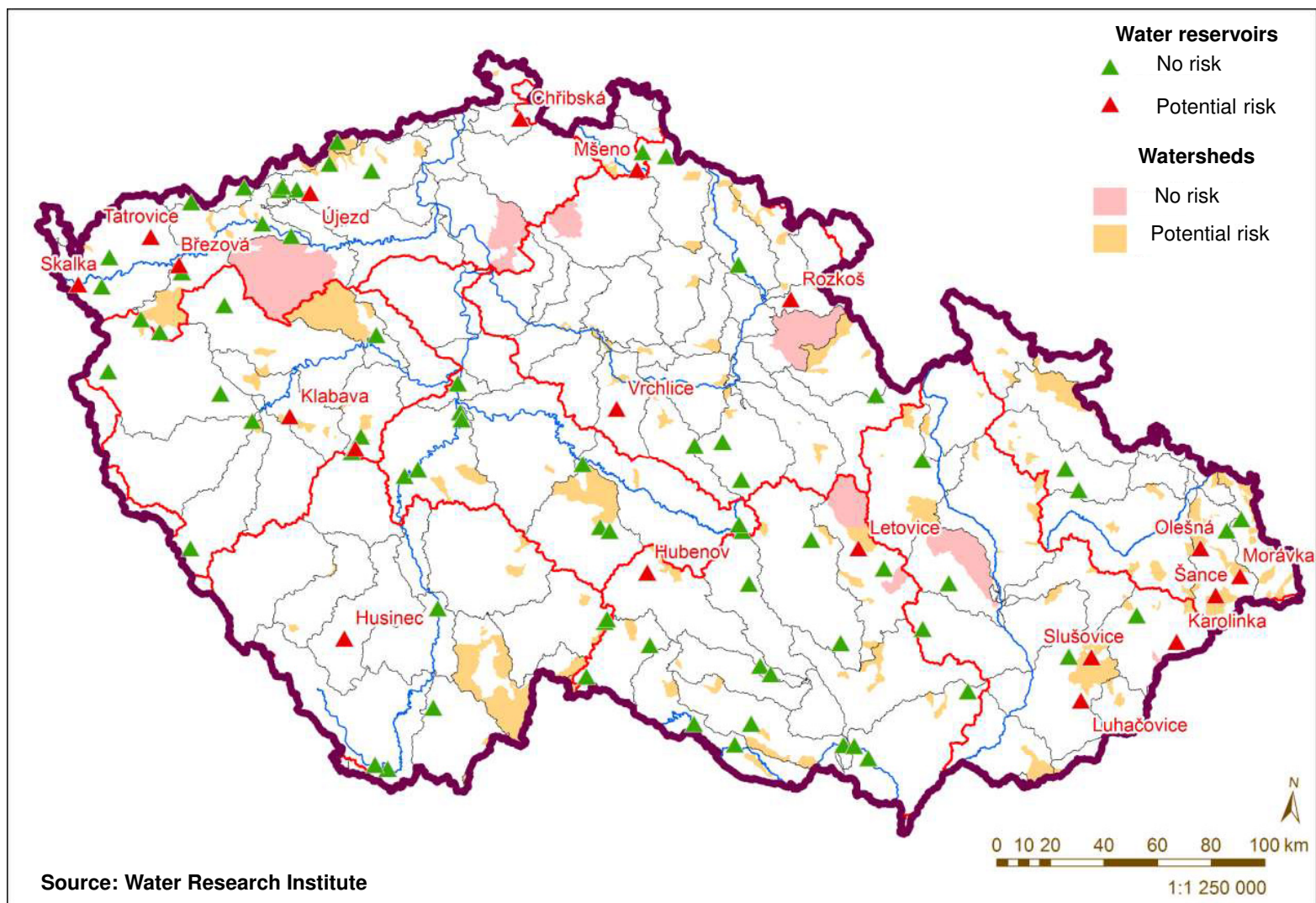
Key strategic tools

- ❖ **Commission Water- Drought**
Intersectoral Commission found by Ministry of Agriculture and Ministry of the Environment
- ❖ **Action plan of Strategy to abate climate change**
measures, financing sources, indicators etc.
- ❖ **Concept of protection of the territory of the Czech Republic against the impacts of drought**
Strategic framework for legislative, technical, operational and economic measures to mitigate the impact of drought and water scarcity
www.suchovkrajine.cz
- ❖ **International cooperation**
exchange of information, experience sharing



Activities

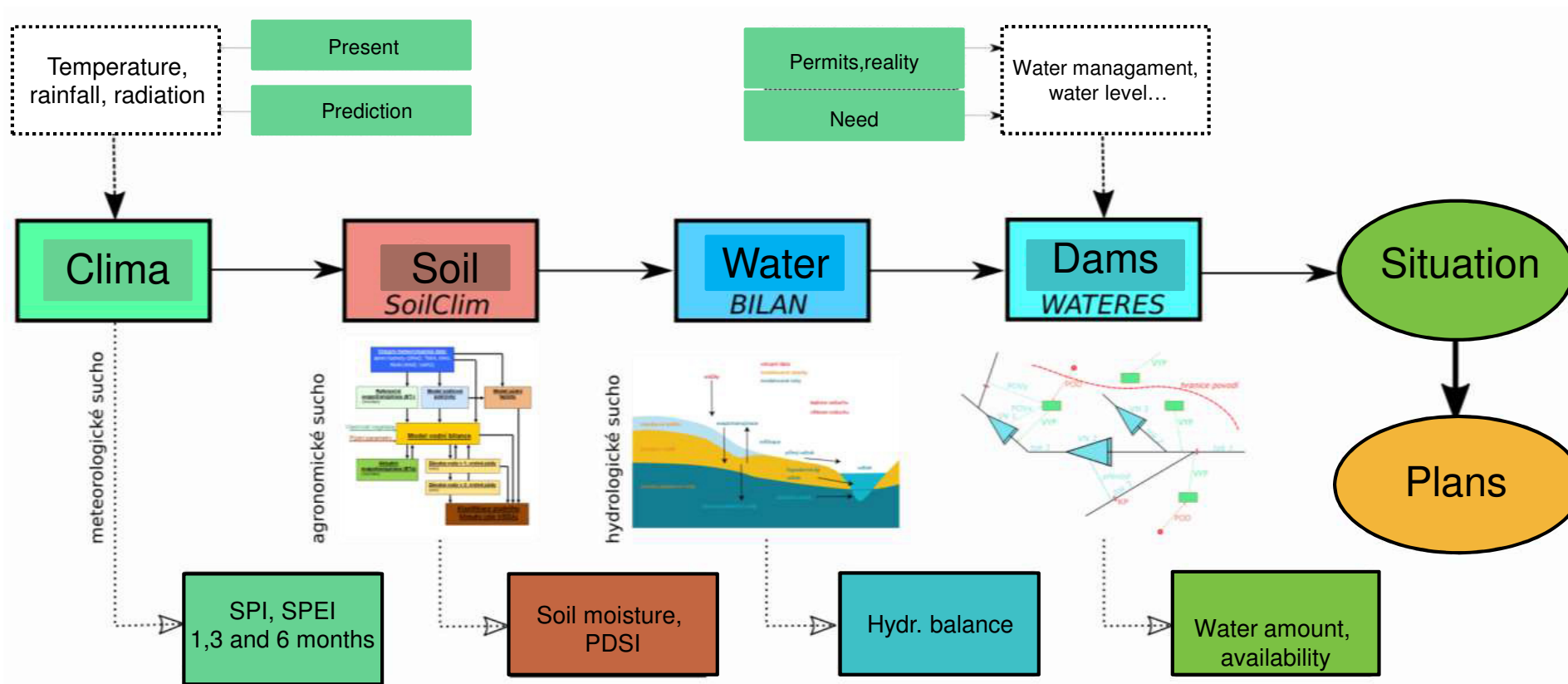
Definition of vulnerability of the territory



Activities

❖ On-line drought management system

Supportive tool for the management during the drought on operational level



Drought management plans

❖ Drought and Water scarcity management plan

Operational tool after the alert on drought

Anchored in the new amendment of Water Act

Main objective: Prevent the Crisis

Includes: identification and description of resources, drought and water scarcity risk assessment and measures to mitigate negative impacts of the drought

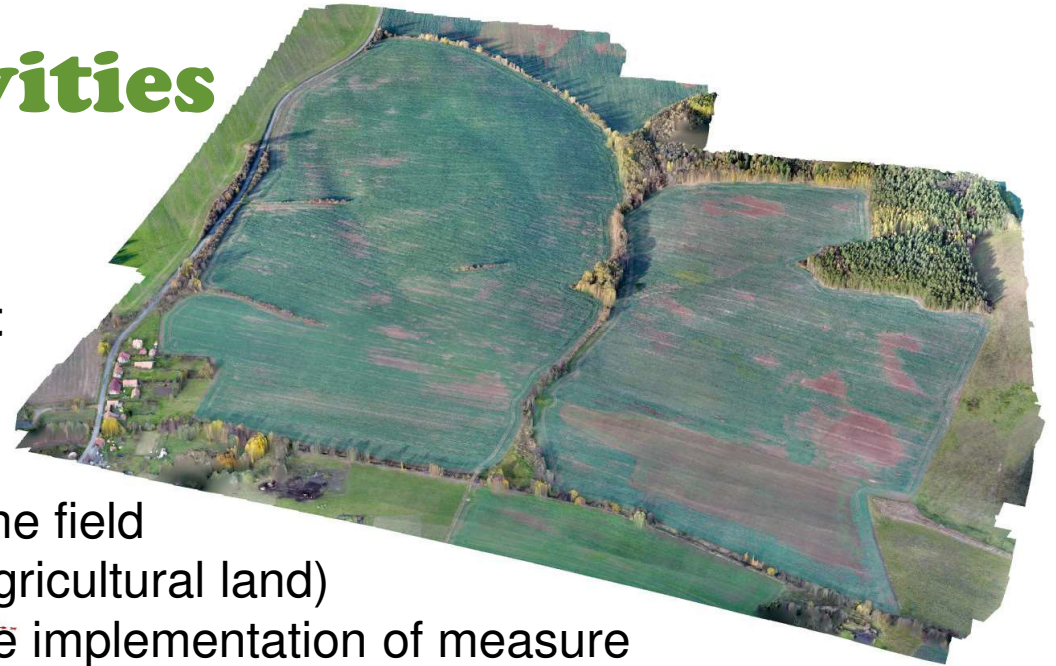
❖ Crisis management plan – type of crisis: Long-term Drought

Guidelines for management of crisis caused by long term drought

Finished in 2017

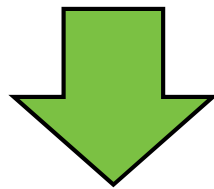


Activities



Modeling and assessment of the effectivity of measures on drought

- ❖ Experiments and measurements in the field
 - 3 experimental river basins (agricultural land)
 - Monitoring before and after the implementation of measure and
- ❖ Assessment of types of measures by the 3 different models



Internet application with the best measure for given type of locality
12 types of localities in CZ defined



Related issues

Carpathian Convention

(Framework Convention on the Protection and Sustainable Development of the Carpathians)

- ❖ Adopted & signed by CZ, HU, PL, RO, SRB, SK & UA, in force since January 2006
- ❖ a “sister convention” to the Alpine Convention: strengthening the cooperation in the framework of the concluded Memorandum of Understanding as one of the priorities after COP5 held in 2017 in Hungary
- ❖ Climate Change is one of the key topics of common interest:

Joint Alpine – Carpathian Statement on Adaptation to Climate Change

- ❖ **The Outlook on climate change adaptation in the Carpathian mountains**
concrete recommendations for sectorial authorities, national governments and for regional cooperation in order to strengthen adaptation efforts to meet shared challenges, including extreme weather events, such as floods and droughts





**Thank you for your
attention.**

Ministry of the Environment
of the Czech Republic

Ministry of the Environment
Vrsovicke 65, 100 10 Prague 10
Czech Republic

www.mzp.cz/en

