

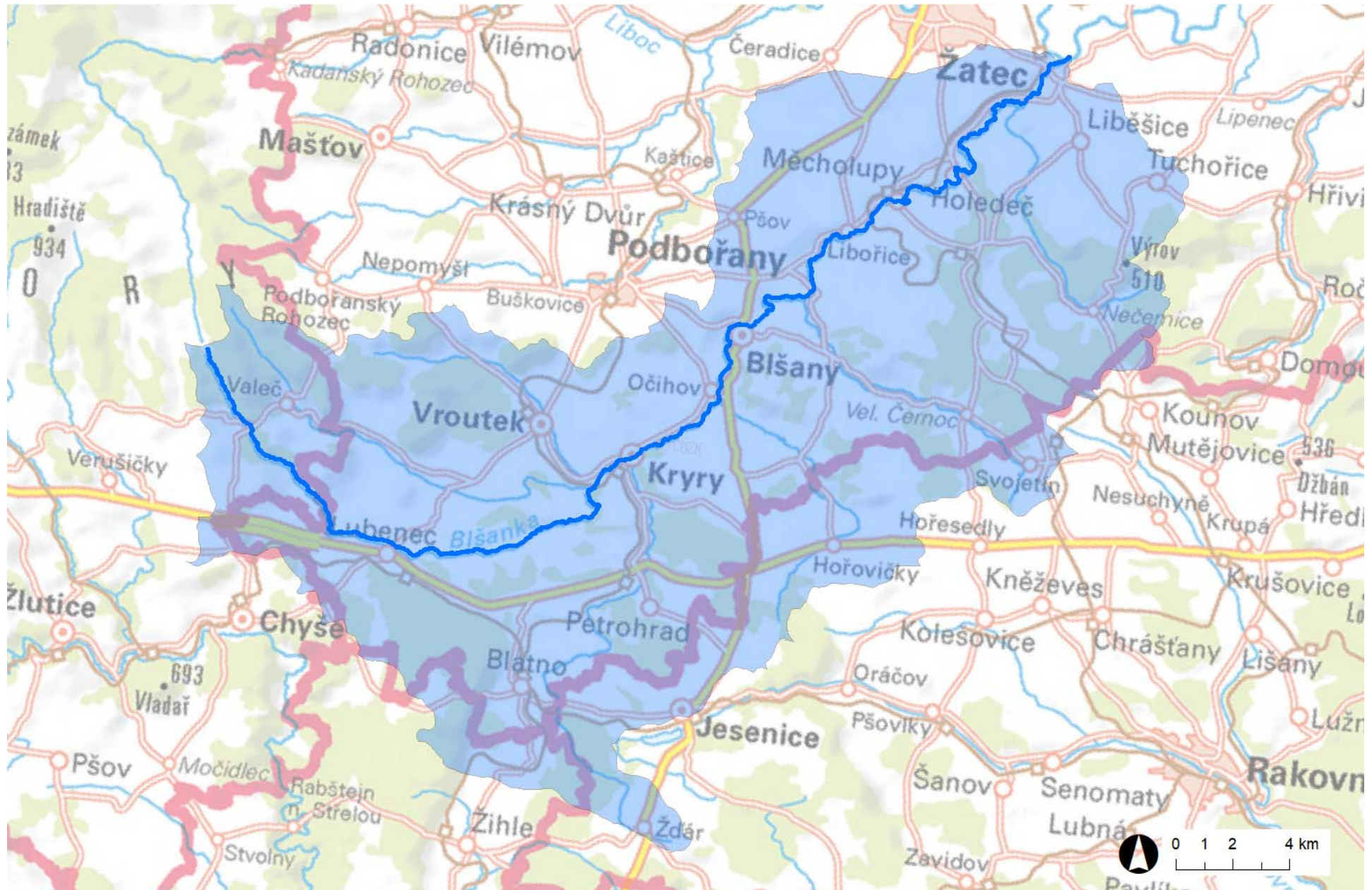


Drought: Measures under preparation in the Blšanka basin

Tomáš Pail



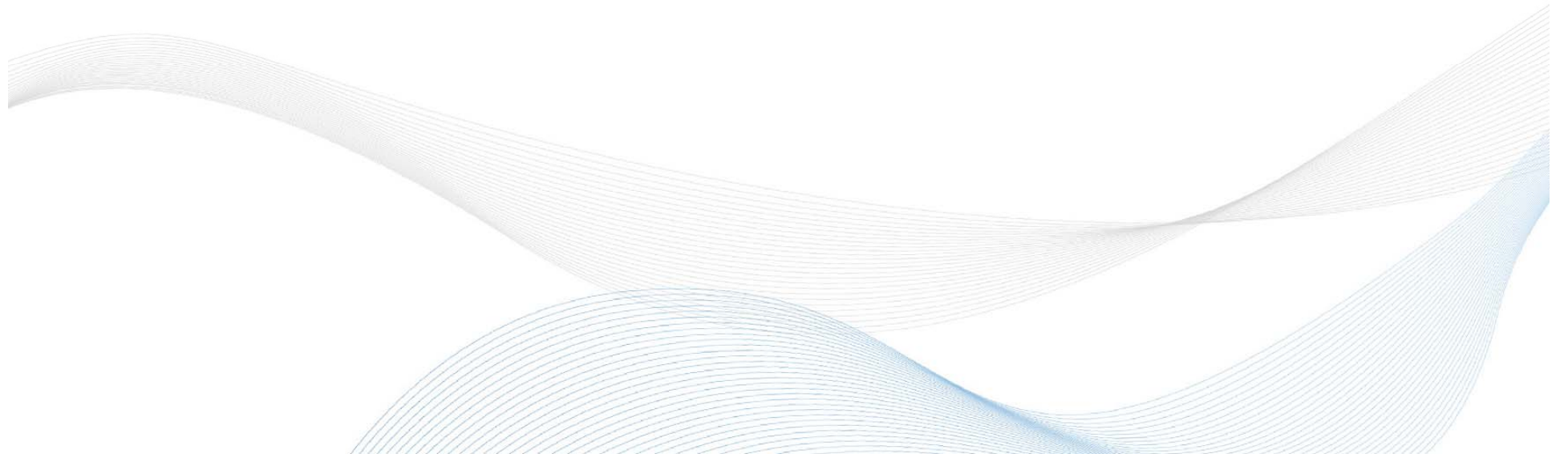
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Measures

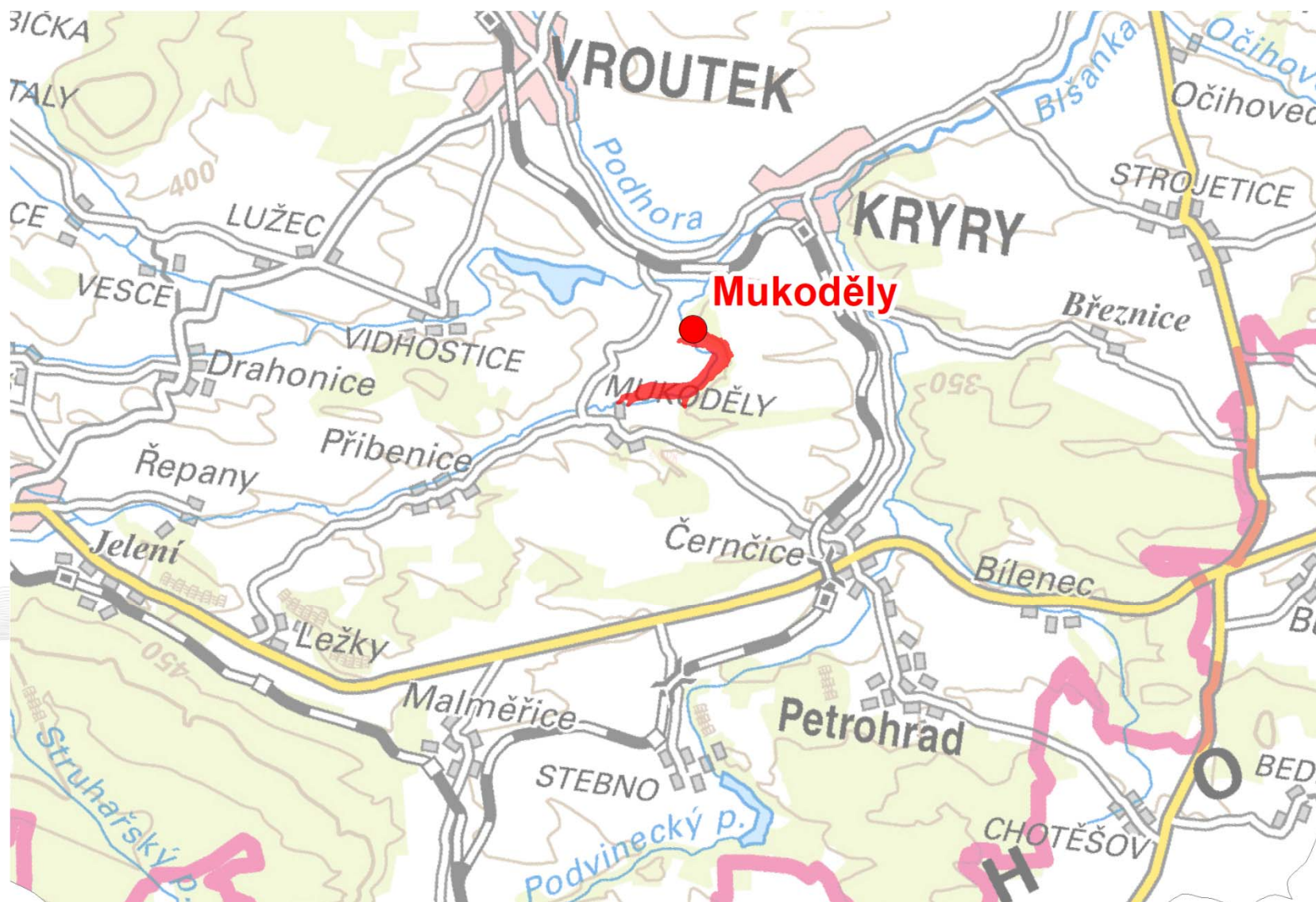
- Mukoděly reservoir
- Kryry reservoir
- Water transfer



Mukoděly reservoir

- Study of water needs for river basins of the Blšanka and Liboc (VÚV TGM / TGM WRI, 2009)
 - Feasibility study of the water reservoir on the Blšanka River over the town of Kryry (ENVISYSTEM, 2015)
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- watercourse **Blšanka**
 - river km 31.0
 - dam: embankment type of rockfill, homogeneous, combined structure
 - dam height: 11.5 m, length: 180 m, crest 323.50 m a.s.l.
 - multipurpose reservoir (V_z 404 + V_{ro} 338 thou. m³)
 - reservoir capacity: 920 thou. m³
 - sedimentation basin

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Mukoděly reservoir

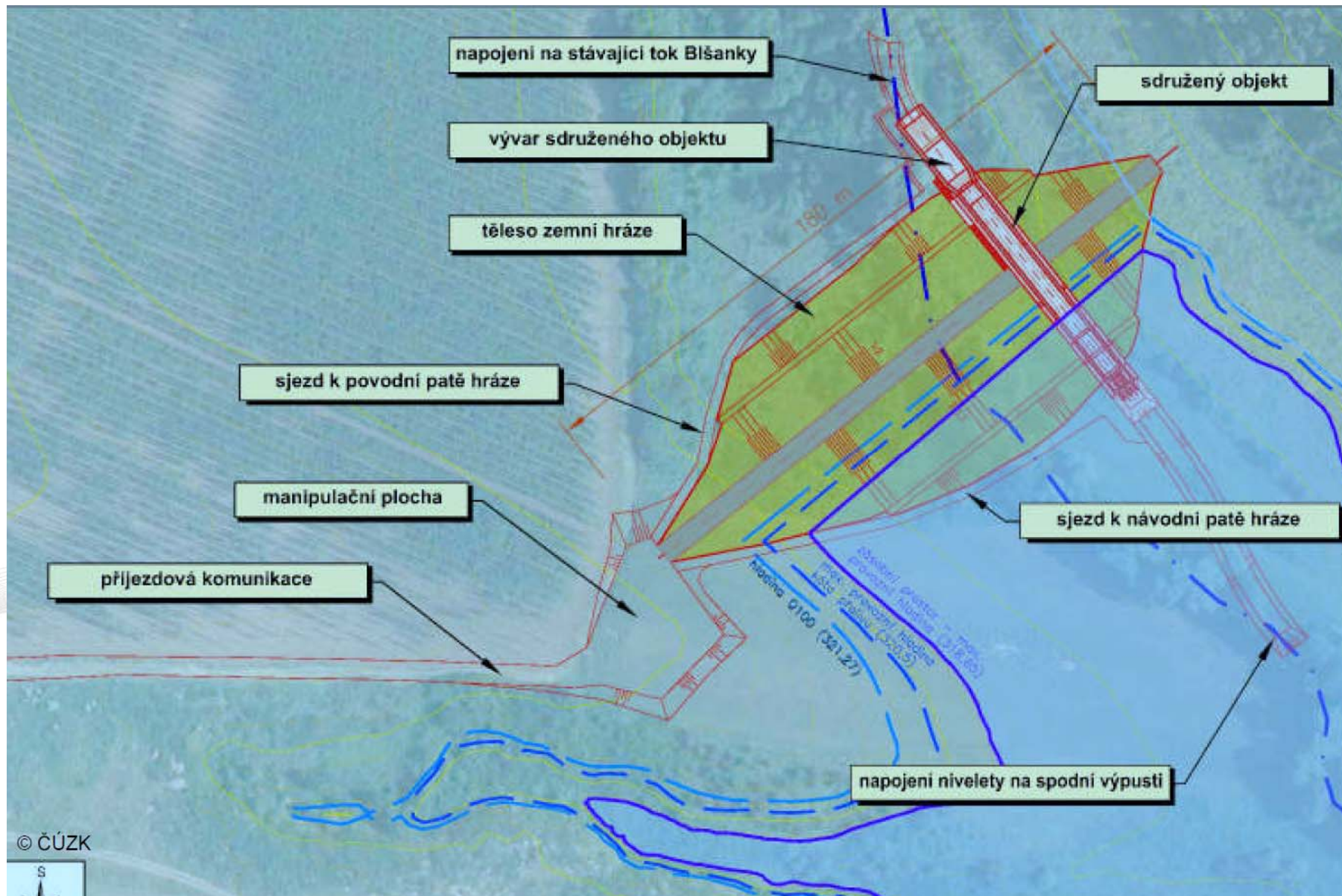
- Combined structure
 - bottom outlets 2 × DN 1000 + DN 250
 - spillway 24 m, capacity 34.8 m³/s

- category III according to dam safety supervision

Investment costs are estimated at 123 mil. CZK, operating costs at CZK 180 thou. CZK per year.

The plan was positively discussed with local authorities; negotiations with land owners are ongoing.

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Mukoděly reservoir



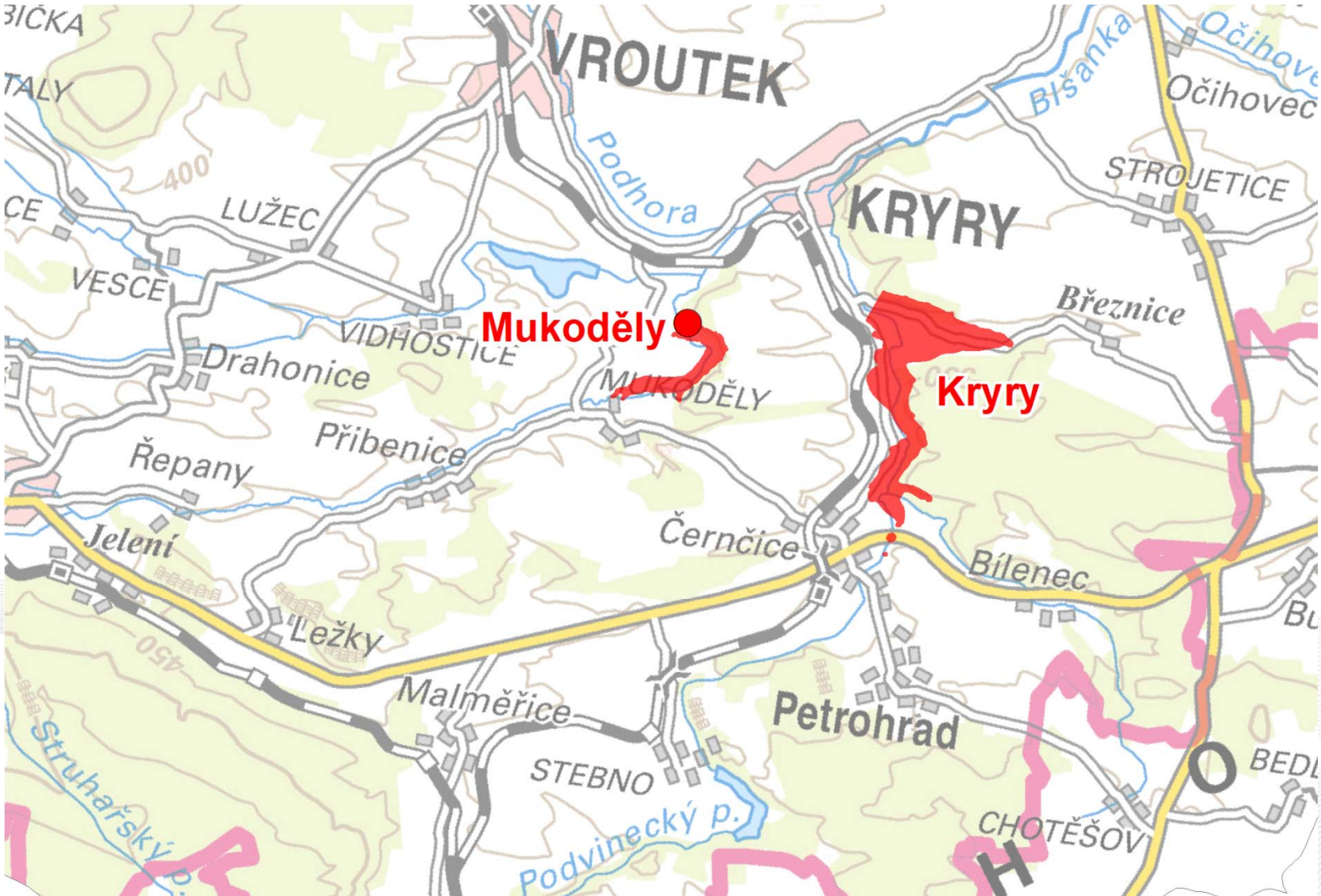
Considered profile of the dam

Kryry reservoir

- The site is included in category B in the General Plan of protected localities
- Feasibility study of the Kryry water reservoir on the Podvinecký Stream (SHDP+VRV, 2017)

- watercourse **Podvinecký potok (→ Blšanka)**
- river km 1.5
- dam: embankment with a loamy core, combined structure
- dam height: 19.4 m, length: 360 m, crest 327.20 m a.s.l.
- multipurpose reservoir (V_z 6234 + V_{r0} 698 thou. m³)
- reservoir capacity: 7.988 mil. m³
- sedimentation basins in catchment

Drought: Measures under preparation in the Blšanka basin



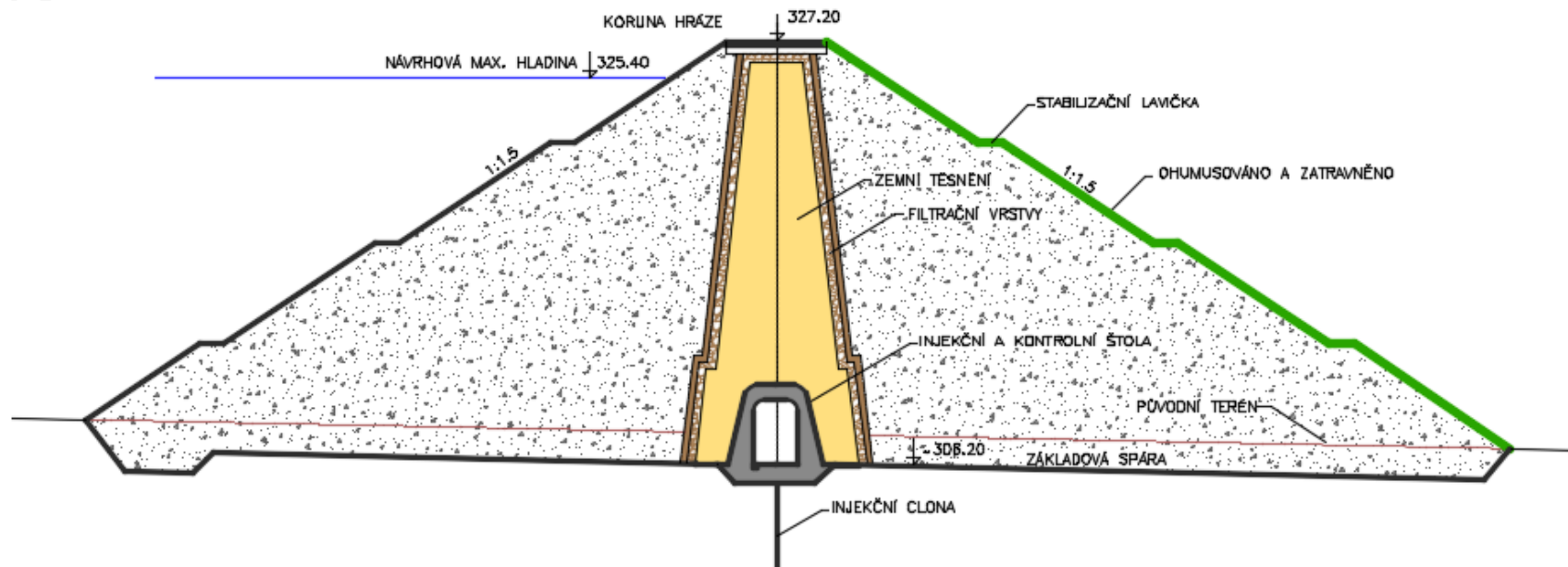
Kryry reservoir

- Multi-level water intake tower structure
 - bottom outlets 2 × DN 1400 + DN 300
 - side spillway: length 36 m, capacity 61.3 m³/s
- category II according to dam safety supervision

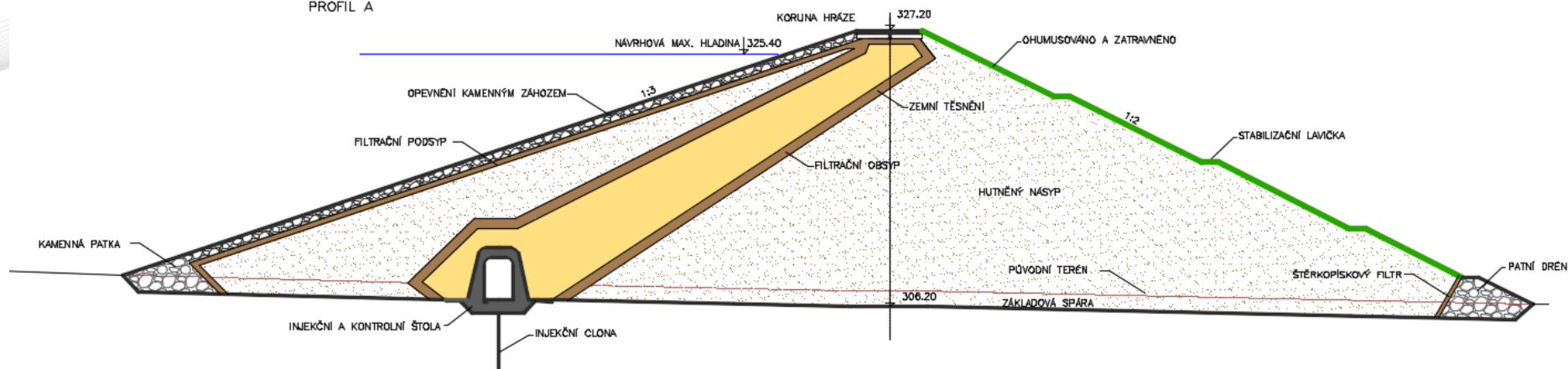
Estimated investment costs: 1571 mil. CZK

Conflict with existing infrastructure in the area (pipeline, roads, railway, D6 motorway).

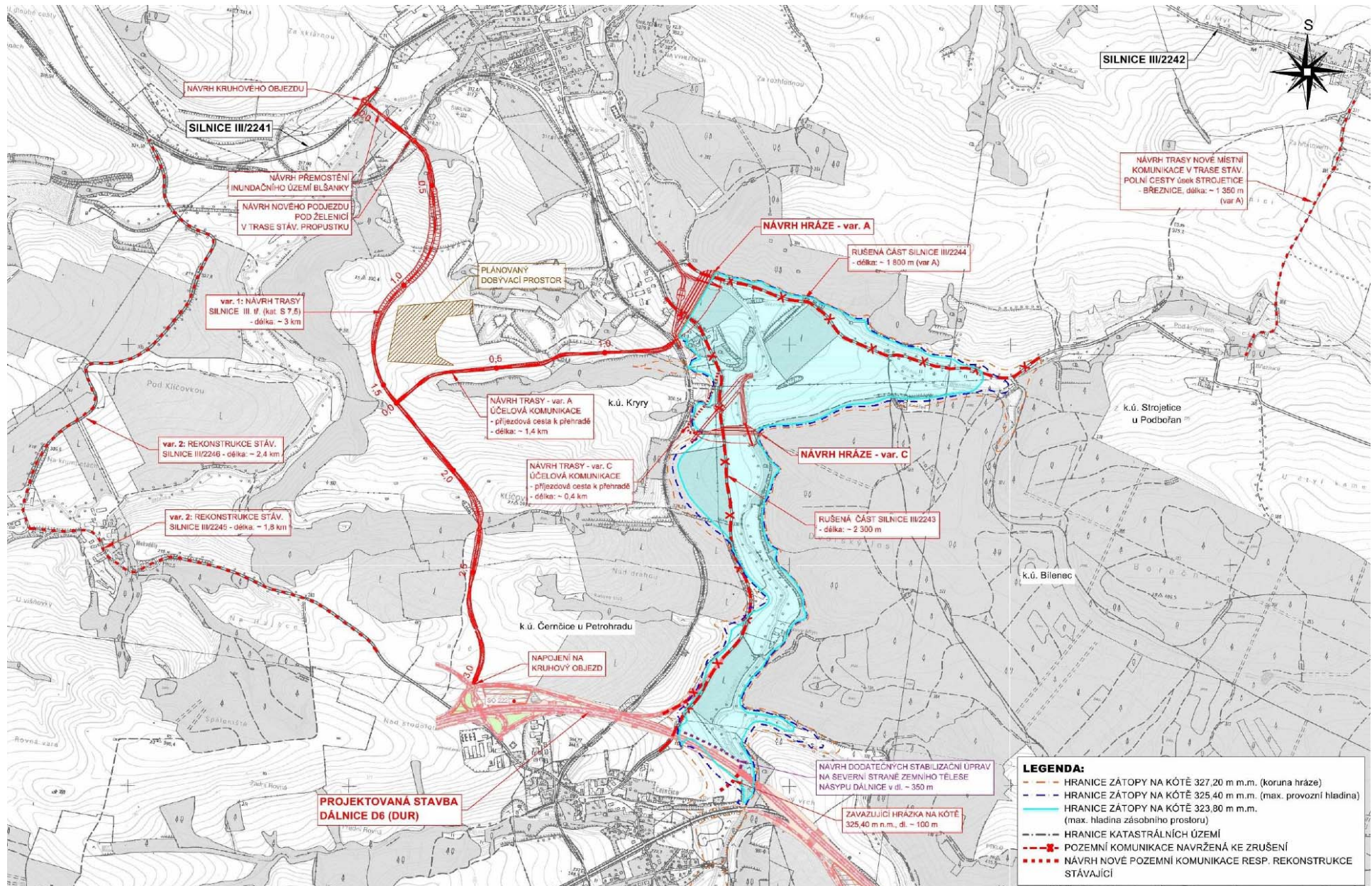
HRÁZ – VZOROVÝ PŘÍČNÝ PROFIL
VARIANTA 1 KAMENITÁ HRÁZ SE ZEMNÍM TĚSNĚNÍM
PROFIL A



HRÁZ – VZOROVÝ PŘÍČNÝ PROFIL
PROFIL A



Drought: Measures under preparation in the Blišanka basin

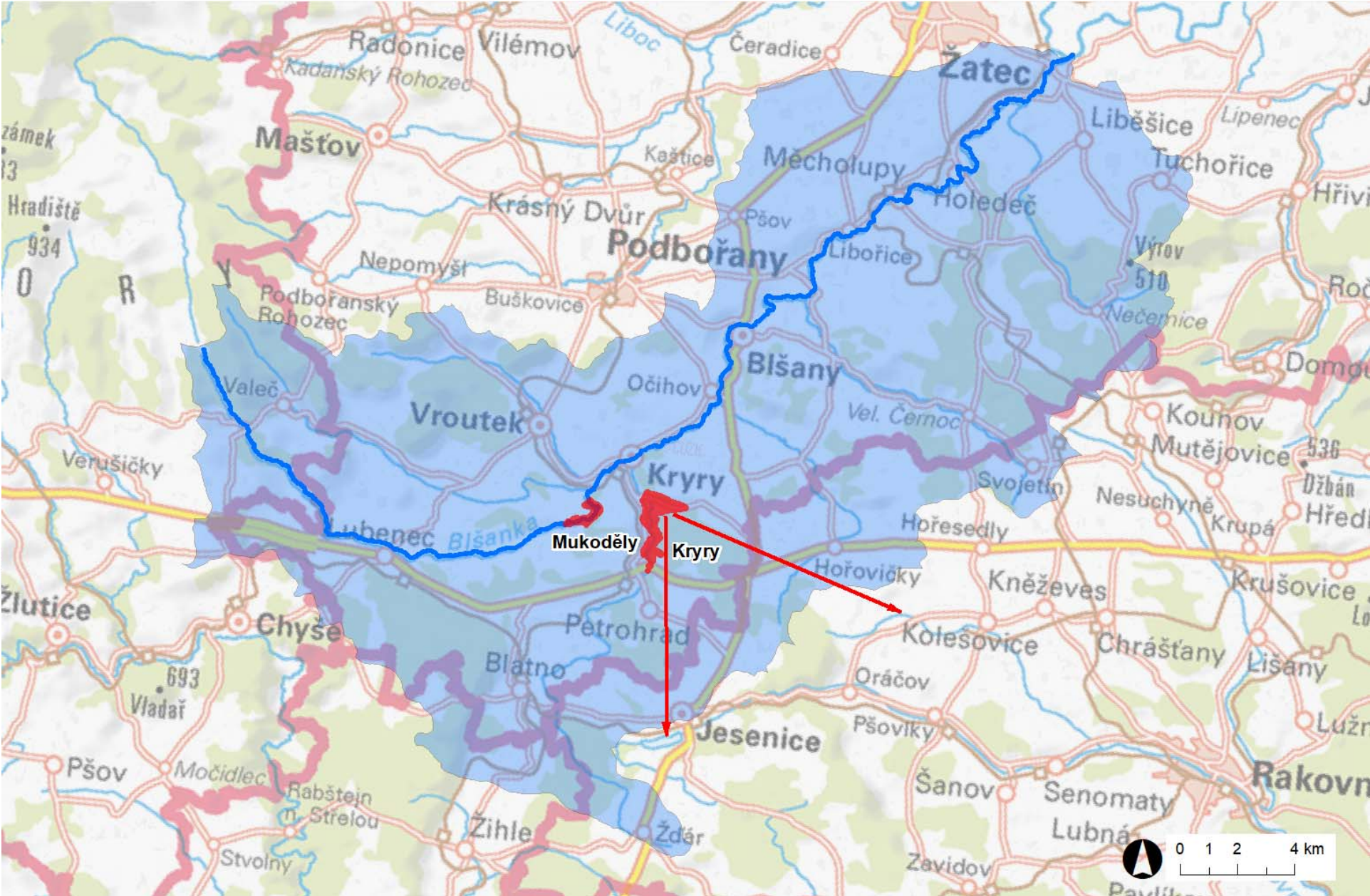


Feasibility study of the Kryry water reservoir on the Podvinecký Stream (SHDP+VRV, 2017)





Drought: Measures under preparation in the Blšanka basin




Water transfer Kryry–Rakovnický

- *Comprehensive water management solution to new impounding reservoirs in the Rakovnický stream and Blšanka catchment areas and other measures to reduce the water deficit in this area (ČVUT / CTU Prague, 2018)*


→ Realization of the **Kryry** reservoir and water transfer from the reservoir to the Rakovnický stream catchment: no need to realize transfers of water from the Ohře river or the Berounka river.

The Kryry reservoir is able to ensure water demands in the Rakovnický stream and Blšanka catchment areas (in cooperation with the Vidhostice, Mukoděly, Šanov and Senomaty reservoirs).



Comprehensive water management solution in the Rakovnický stream and Blšanka catchment

In order to ensure water demands in the catchments under the current hydrological conditions – at least these measures must be implemented:

- Šanov reservoir
 - Senomaty reservoir
 - Kryry reservoir
 - water transfer: Kryry reservoir – Rakovnický stream catchment
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