



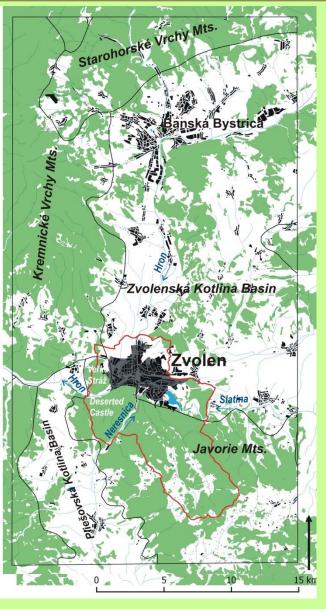
Cultural and historical aspects of forests quality in the town of Zvolen



Martina Slámová
Peter Jančura



The Act no. 50/1976 Zb. on Territorial Planning and Building Order Source: https://kataster.skgeodesy.sk/eskn/services/NR/kn_wms_orto/MapServer/WmsServer?



Historic image of the town (1599)



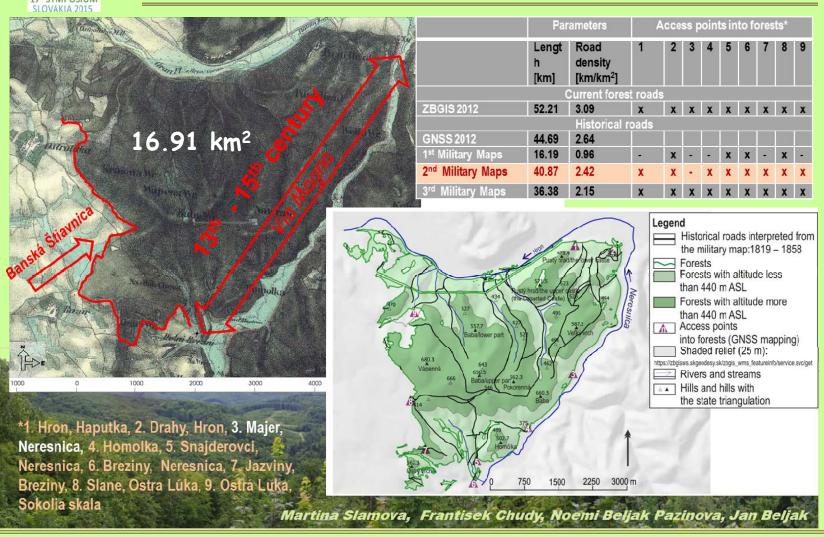
Present view on the town (2004)



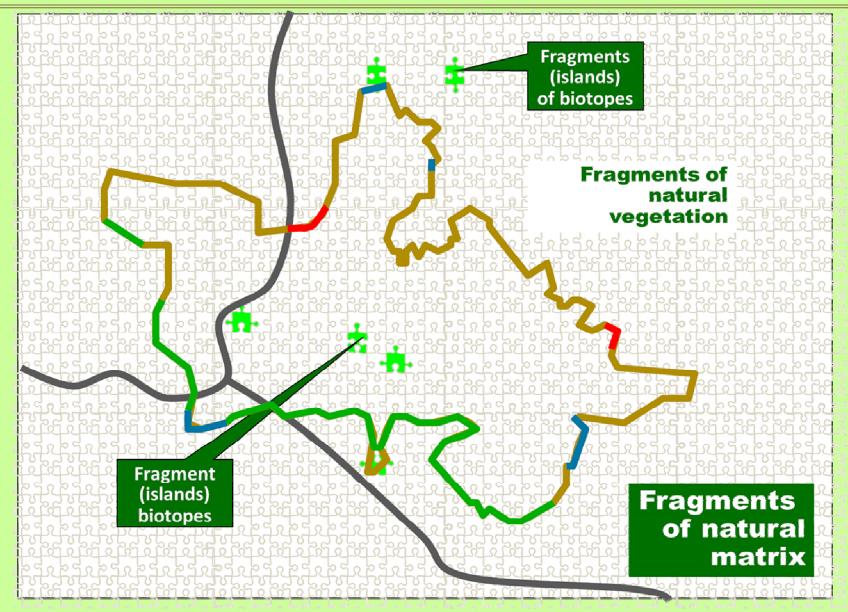


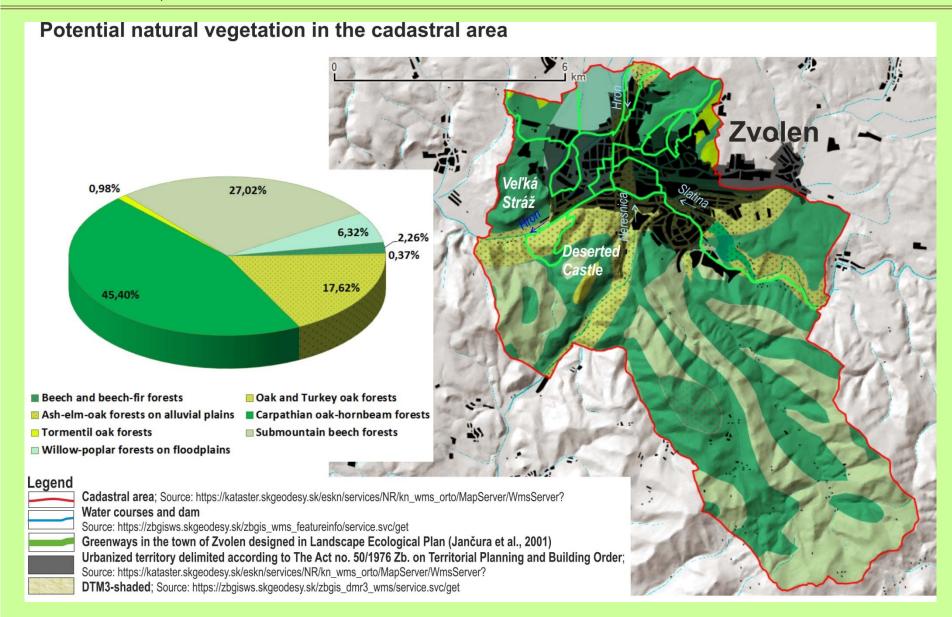


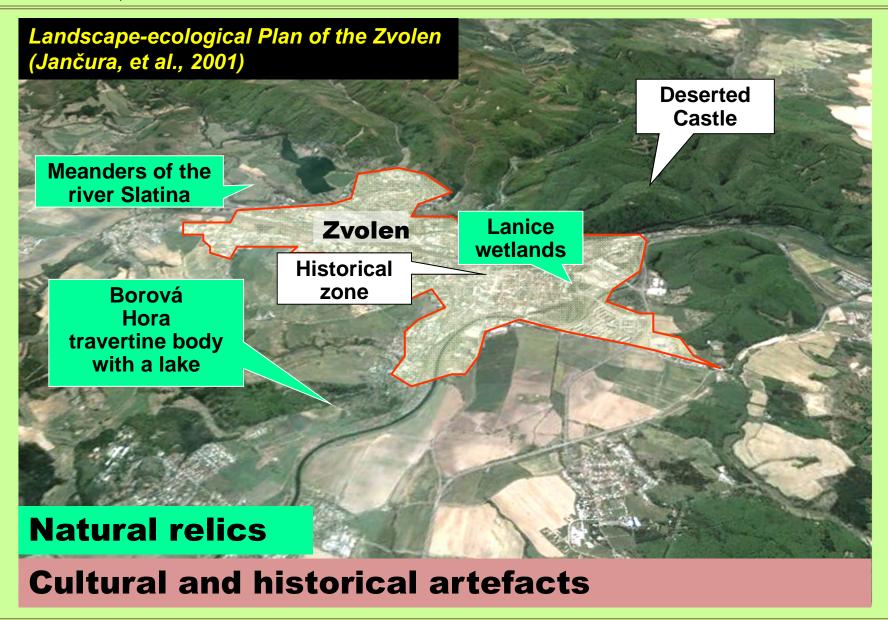
Results Historical maps with roads, 2nd Military Map

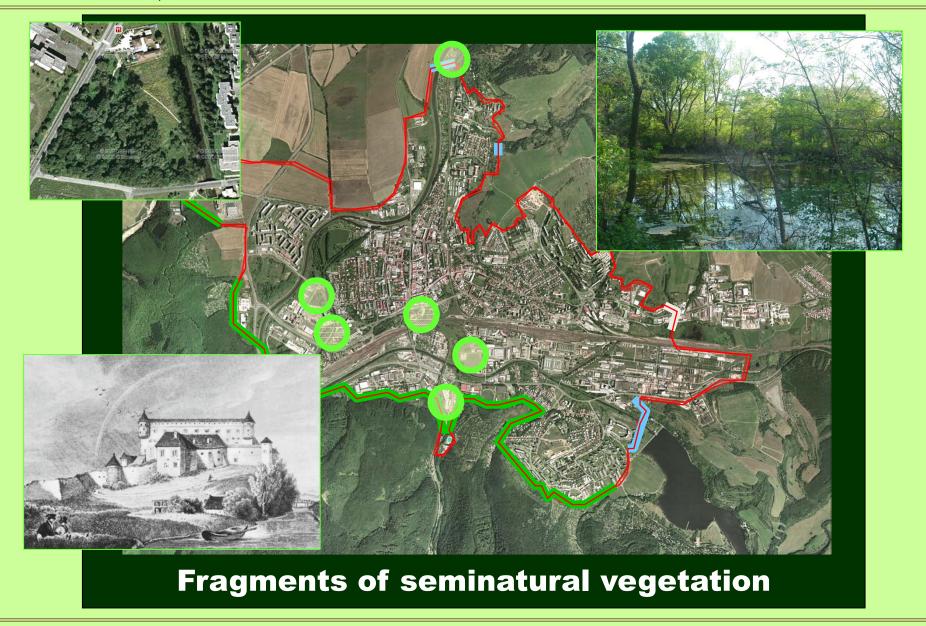


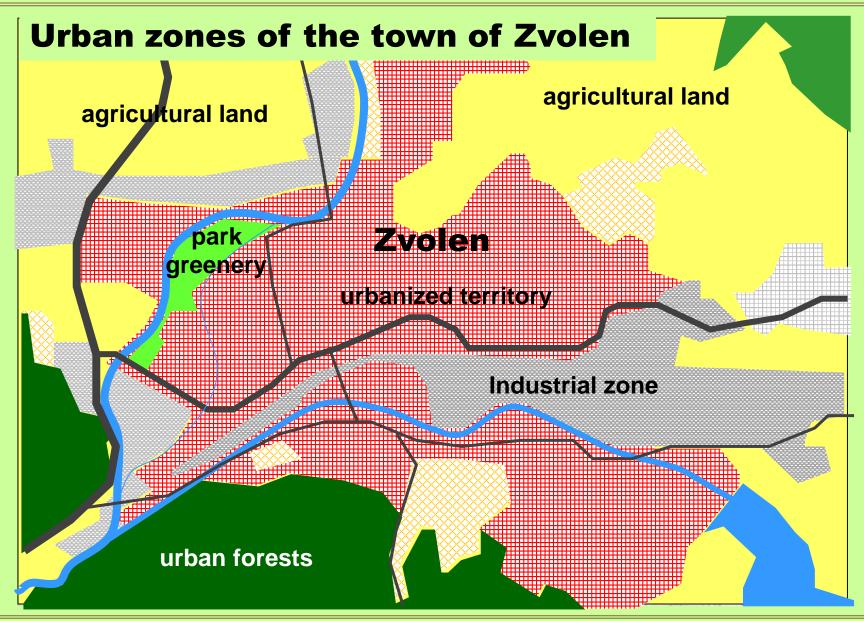










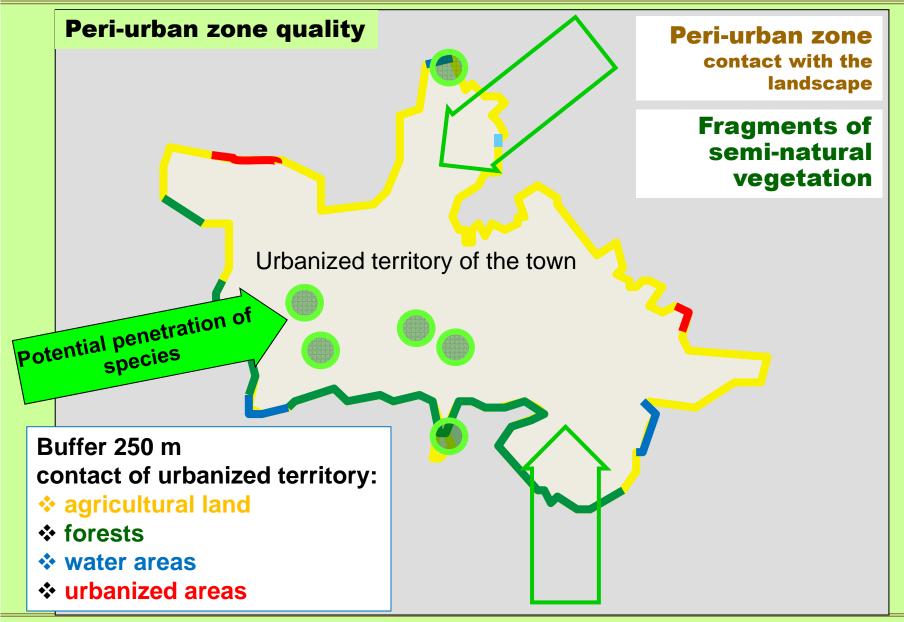


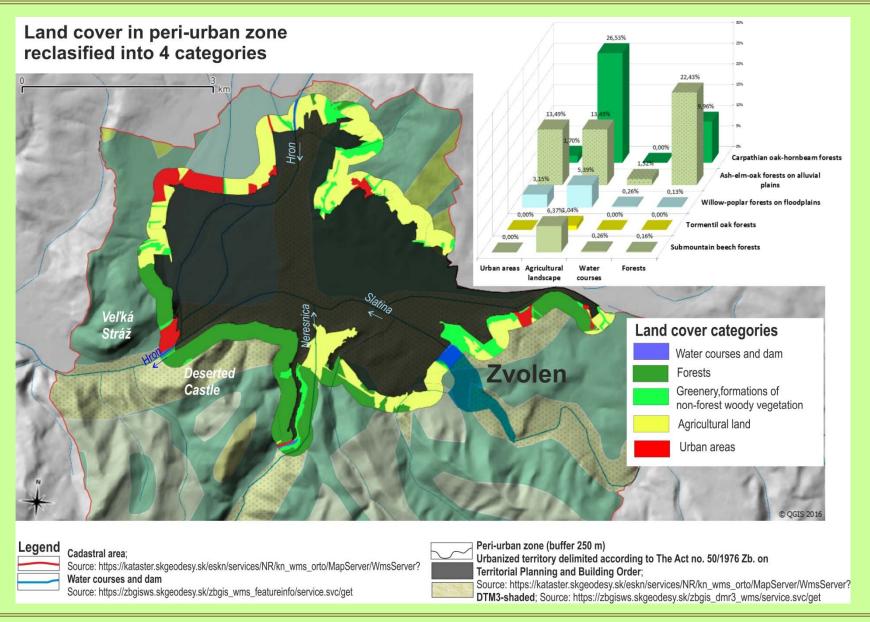
Quality of forests

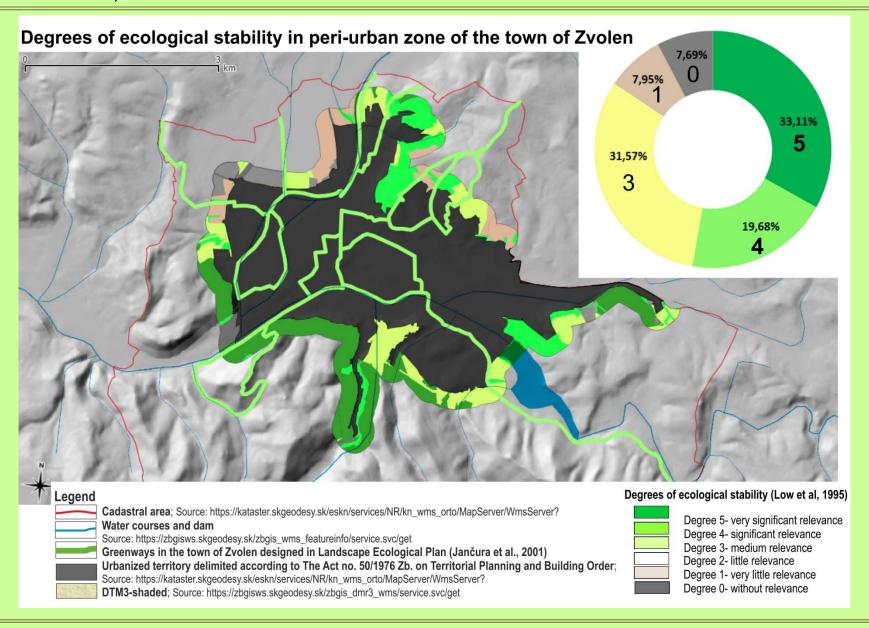


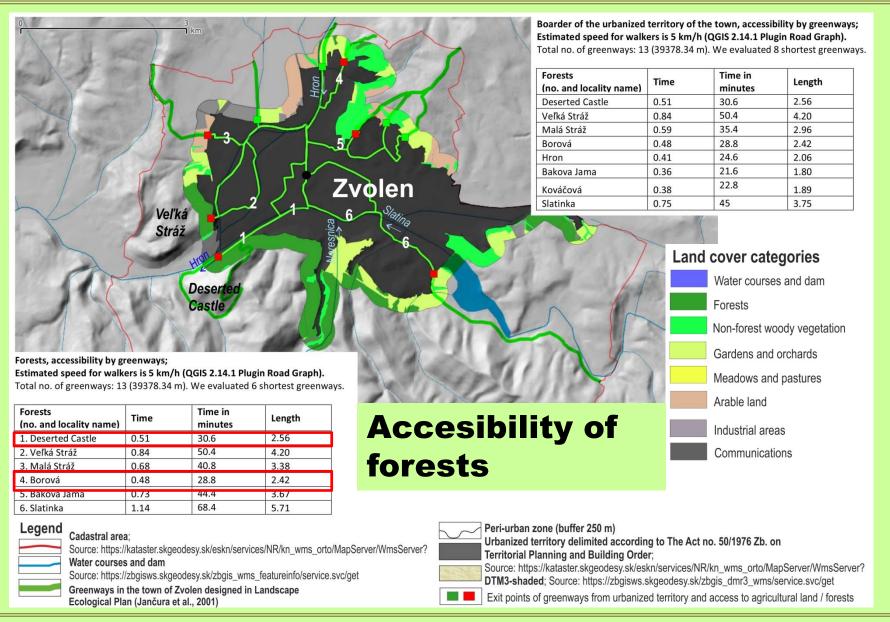
- Quality of peri-urban zone
- Greenways network
- Access to forests

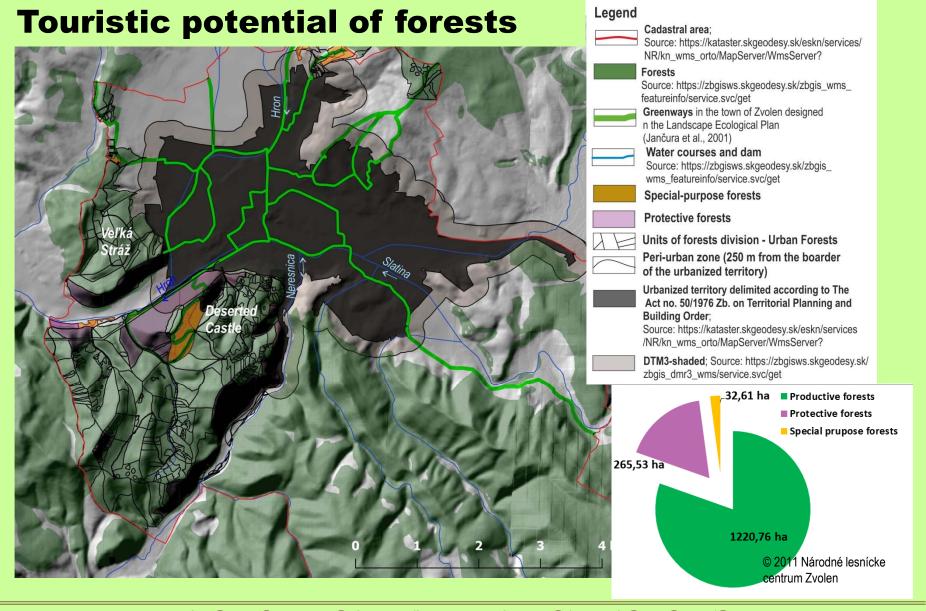
Design of spaces for short time recreation – residents.

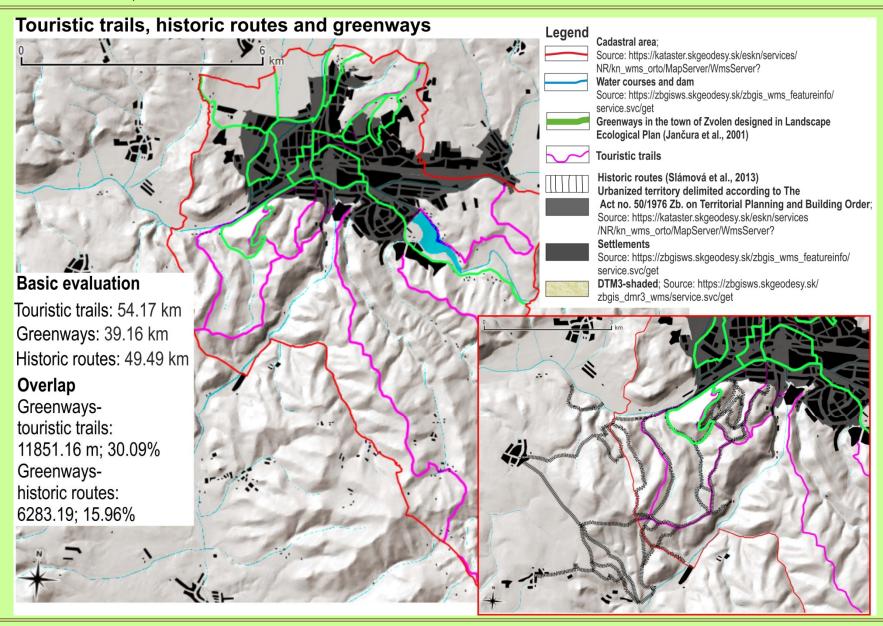


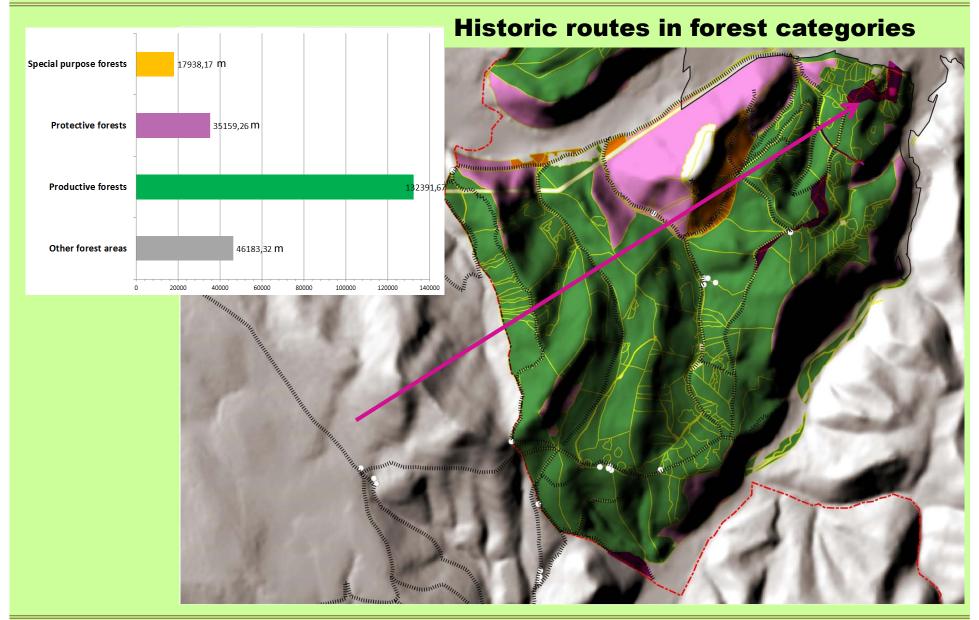


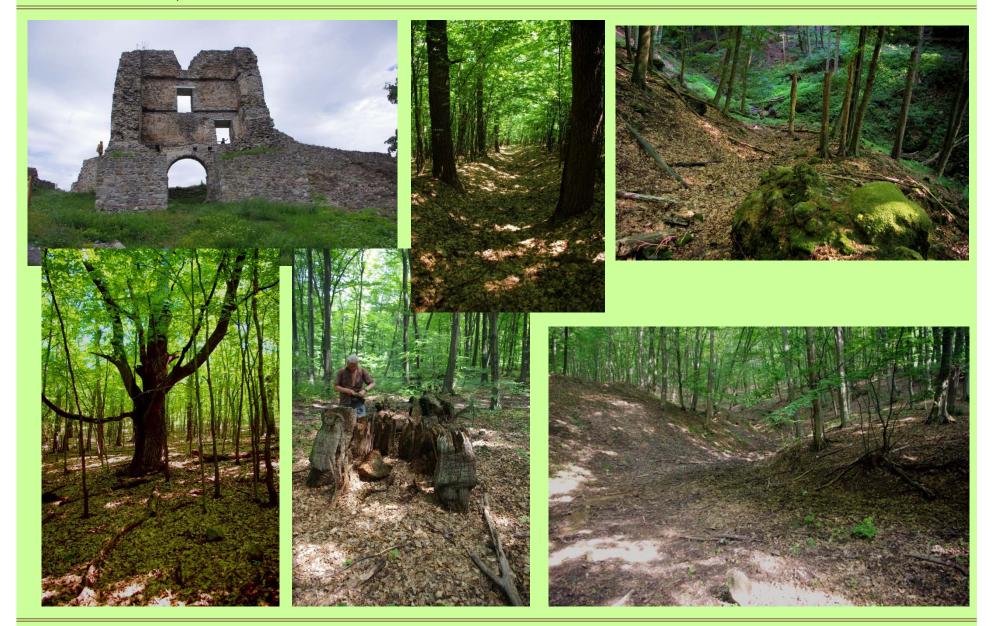




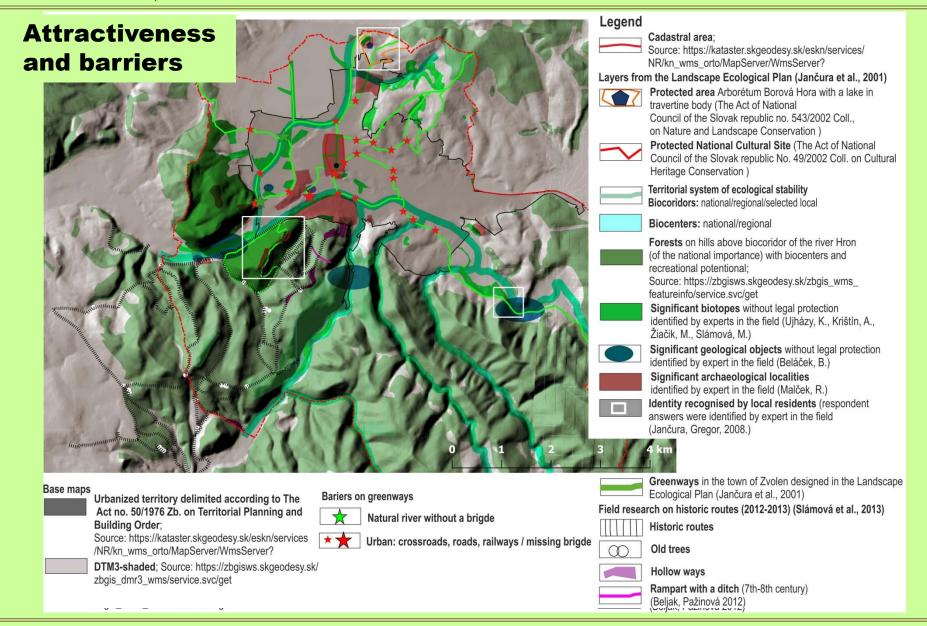








THE ROLE OF FOREST FUNCTIONS WITHIN ECOSYSTEM SERVICES Křtiny, Czech Republic, April 5th - 8th 2016



Evaluation of forests quality for recreation

(evaluation in progress)

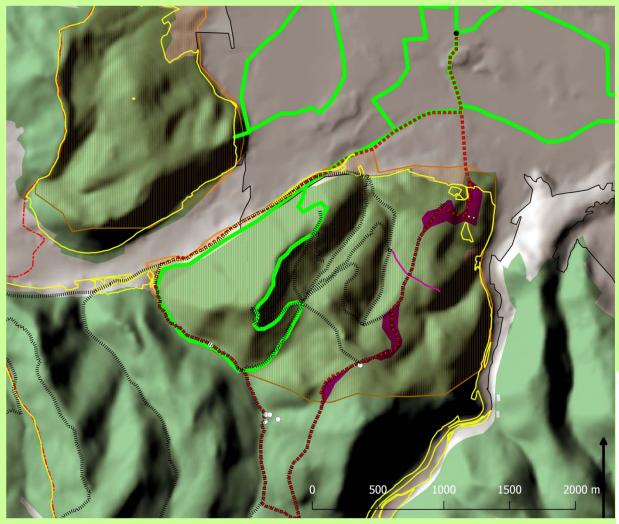
| | Natural | | | Geology | Cultural | Historic | | Identity | |
|----------------------|--|---|--|-------------|---|----------|---|---|--|
| Name of the locality | Protected area (Act no. 543/2002) | Significant biotopes without protection | Territorial system of ecological stability | · | Protected cultural site (Act no. 49/2002) | | Interesting artificial landforms and objects | Identity of residents (mental maps) (Jančura, Gregor, 2008) | |
| Forests: | | | Categories | of signific | ance: A, B, (| 0 | | Preferences by respondents (x: less than 0,2; C: 0,2-0,4; B: 0,4-0,6; A: above 0,6) | |
| 1-Pustý Hrad | X | A | A | A | A | A | В | A | |
| 2-VeľkáStráž | X | Α | Α | Α | Х | В | Х | Х | |
| 3-Malá Stráž | Χ | Α | С | Χ | X | X | Χ | X | |
| 4-Borová hora | Α | Α | Α | Α | Χ | Α | В | В | |
| | | Α | С | Х | Х | В | Х | Х | |
| 5 -Bakova jama | 1X | A | | ^ | ^ | | | | |

Assessment of forests accesibility Multi-criteria matrix

(evaluation in progress)

| Criteria | l. | II. | III. | IV. | V. | VI. | VII. | VIII. | IX. |
|-----------------|--------------------------------------|-----------------------------|--|--------------------------|--|--|----------------------------|--------|--------------------------------------|
| | The fastet access to peri-urban zone | The fastet access to forest | Forest owner | Access | Degree on naturaleness in peri-urban zone | Greenery formations in urbanized territory along greenways | Natur al barier s | barior | Forest value |
| Greenways | Time [min] | Time [min] \ | Municipality and /ŠLP (1)/associate landowners (0) | free (1)/ limited (0) | 1-very little; 2- little; 3- medium; 4- significant; 5- very significant | No./lenght | n | n | 24-16 (A), 15- 7 (B), 6-1(C) ? |
| G1-Pustý Hrad | 30,6 | 30,6 | 1: Urban forests | free | 5 | | 0 | 2 | |
| G2-VeľkáStráž | 50,4 | 50,4 | 1: Urban forests | free | 5 | | 2 | 3 | |
| G3-Malá Stráž | 35,4 | 40,8 | 1: Urban forests | free | 1 | | 1 | 2 | |
| G4-Borová hora | 28,8 | 28,8 | 1: VŠLP Zvolen | limited access | 5 | | 0 | 1 | |
| G5 -Bakova jama | 21,6 | 44,4 | 1: Urban forests | free | 1 | | 0 | 2 | |
| G 6-Slatinka | 45 | 68,4 | 0: Urbár Moťová | free | 3 | | 0 | 6 | |

Proposal of touristic trail



Legend

Cadastral area:

Source: https://kataster.skgeodesy.sk/eskn/services/ NR/kn wms orto/MapServer/WmsServer?

Forests

Source: https://zbgisws.skgeodesy.sk/zbgis_wms_ featureinfo/service.svc/get

Greenways in the town of Zvolen designed n the Landscape Ecological Plan (Jančura et al., 2001)

Units of forests division - Urban Forests

Master plan of the district of Banská Bystrica, 2008

Urbanized territory delimited according to The Act no. 50/1976 Zb. on Territorial Planning and **Building Order**;

Source: https://kataster.skgeodesy.sk/eskn/services /NR/kn wms orto/MapServer/WmsServer?

DTM3-shaded; Source: https://zbgisws.skgeodesy.sk/ zbgis dmr3 wms/service.svc/get

Field research on historic routes (2012-2013)

(Slámová et al., 2014)

Historic routes

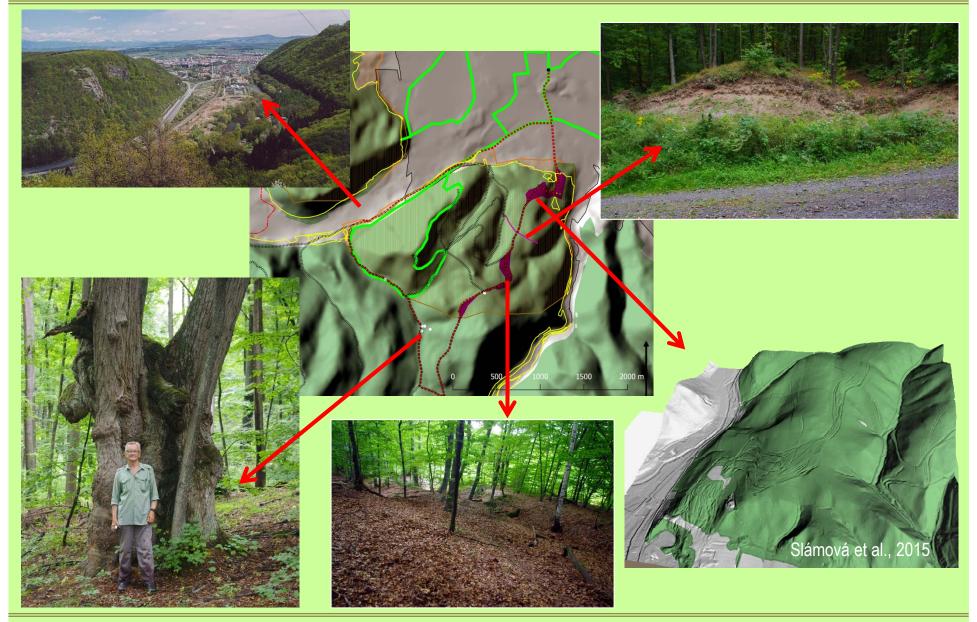
Old trees

Hollow ways

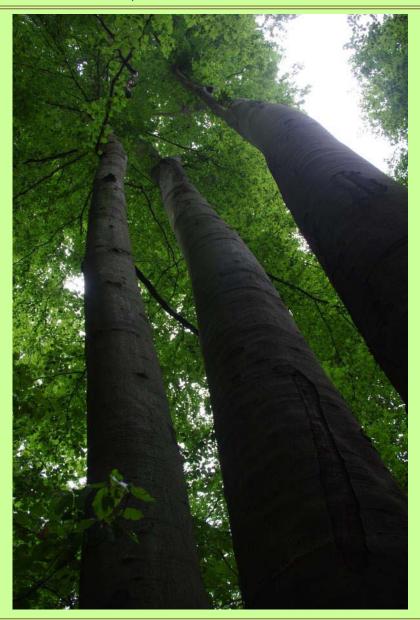
Rampart with a ditch (7th-8th century)

(Beliak, Pažinová 2012)

Cultural functions (CICES, 2016) within a group of intellectual and representative interactions has 42% of urban forests.



THE ROLE OF FOREST FUNCTIONS WITHIN ECOSYSTEM SERVICES Křtiny, Czech Republic, April 5th - 8th 2016



References

JANČURA, P., SLÁMOVÁ, M. 2002. *Landscape Ecological Plan of Zvolen, 1st phase, 2nd phase*. Banská Štiavnica: KPTK, FEE, TU vo Zvolene, 2002, 48 pp.

SLAMOVA, M., CHUDY, F., BELJAK PAZINOVA, N., BELJAK, J., 2015. Multidisciplinary approach to research on historical landscape structures. In Boltižiar, M., Bača, A., eds. The Abstracts of the 17th International Symposium on Landscape Ecology: Landscape and Landscape Ecology, Institute of Landscape Ecology SAV Bratislava, 2015, p. 33. ISBN 978-80-89325-27-6.

SLÁMOVÁ, M., BELACEK, B., BELJAK, J., PAZINOVA, N., CHUDY, F., 2014. Dependence of the Medieval Settlements and Historical Roads to the Natural Environment Around the Deserted Castle in Zvolen (Slovakia). In Procedia, Social and Behavioral Sciences. ISSN 1877-0428, 2014. vol.120, p. 213-223. doi: 10.1016/j.sbspro.2014.02.098

SLÁMOVÁ, M., BELÁČEK, B., BELJAK, J., PAŽINOVÁ, N. 2013. Research of Historical Roads around the Deserted Castle, near Zvolen. Research Report on the Historical Roads Identification in the Forest Landscape. Zvolen: KPTK, FEE, TU vo Zvolene, 2013, 46 p.

Thank you for attention

