



SETOF

Soil Erosion and TOrrential Flood
*Prevention: Curriculum Development at the
Universities of Western Balkan Countries*

Prezentacija predmeta: **Primena GIS-a u zaštiti od bujičnih poplava**

Prof. dr Atila Bezdan

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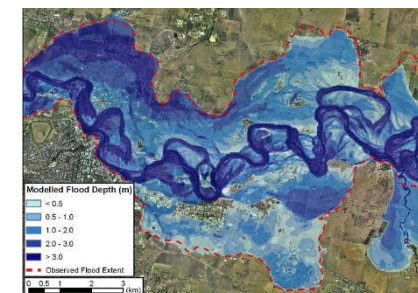
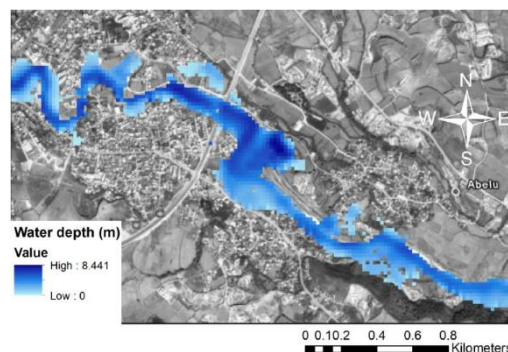
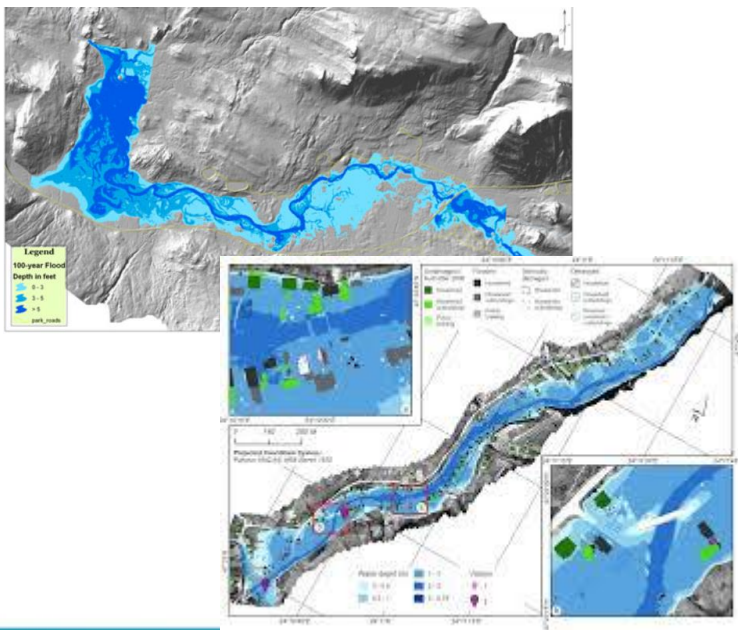
Co-funded by the
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Cilj predmeta

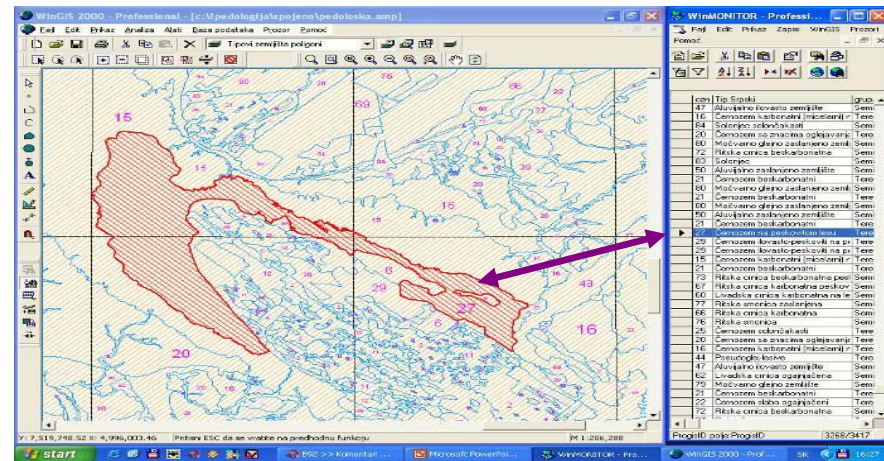
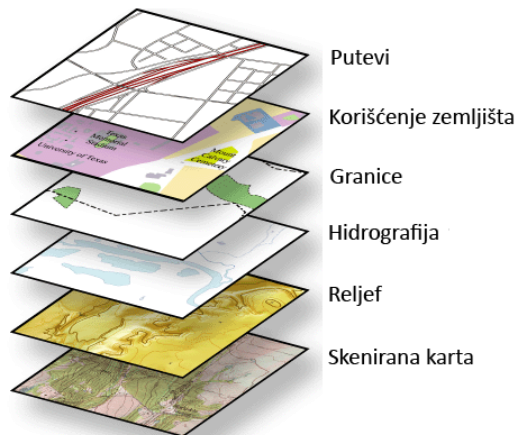
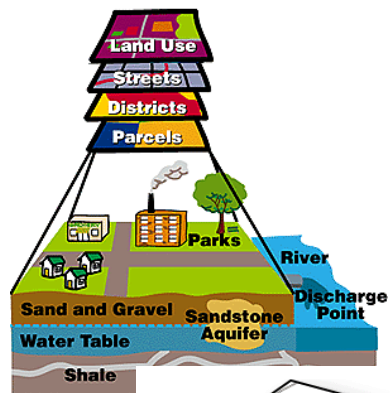
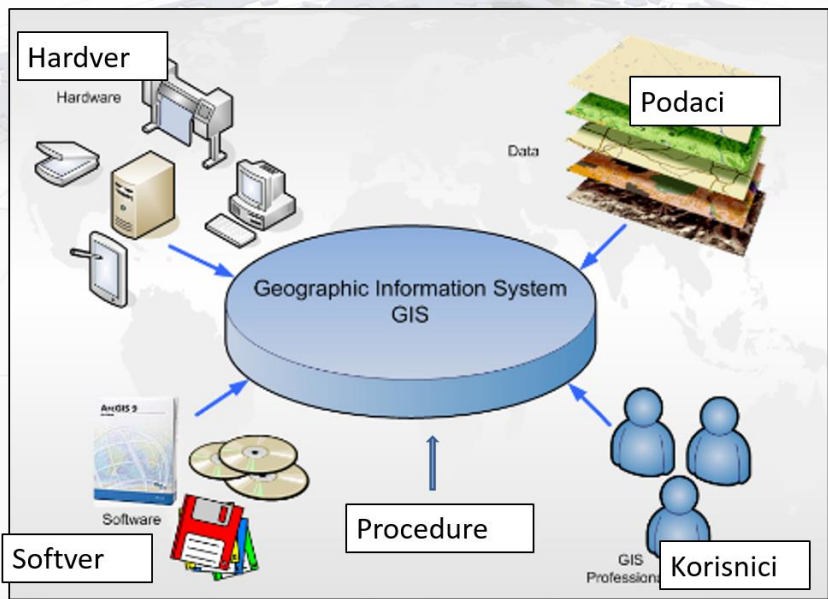
- Ovladavanje osnovama Geografskih informacionih sistema (GIS) i njihova primena u prostornoj analizi degradiranih područja, u cilju obnove i zaštite zemljišnih i vodnih resursa





- GIS proizvod, geokodirana informacija, mogućnost primene, povezivanje geografskih i atributnih obeležja, vizuelizacija podataka

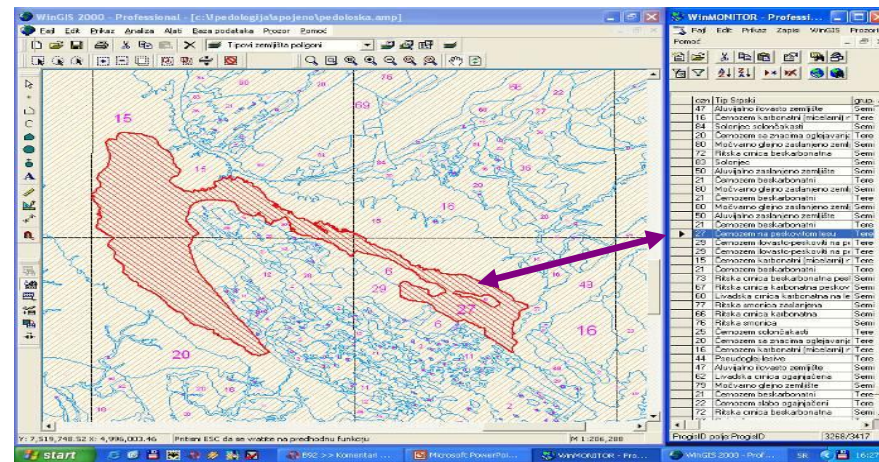
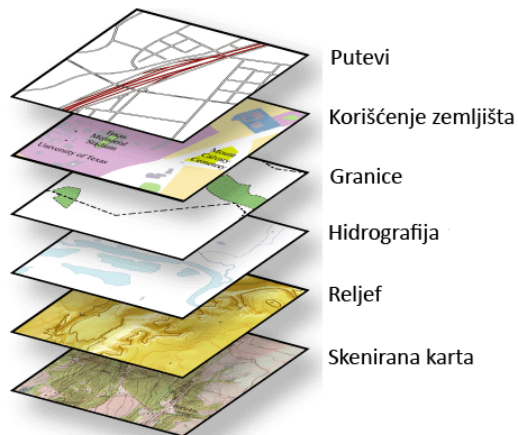
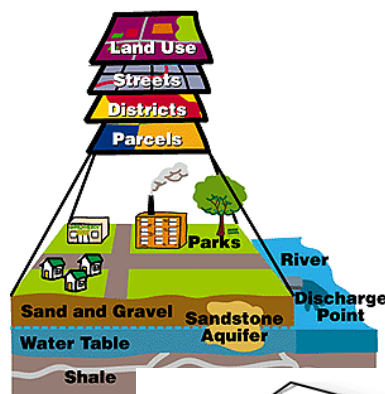
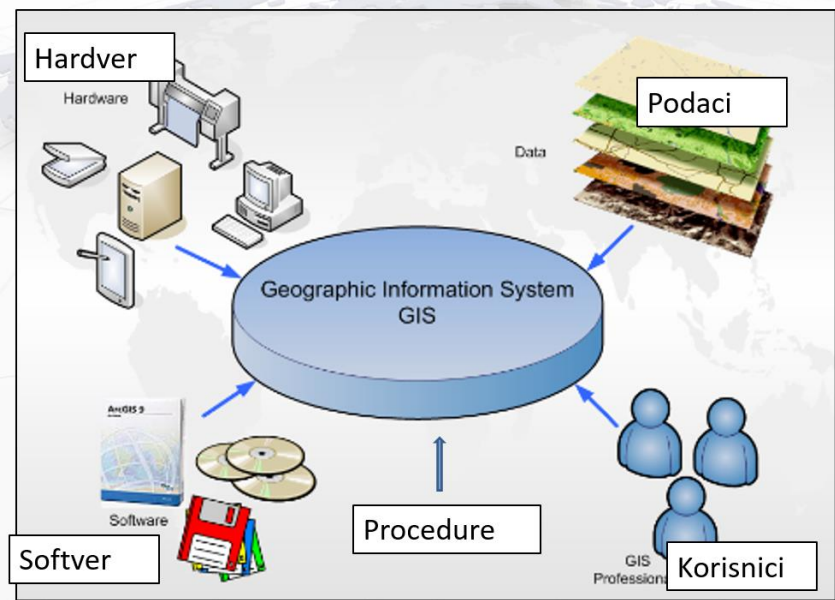
Komponente GIS





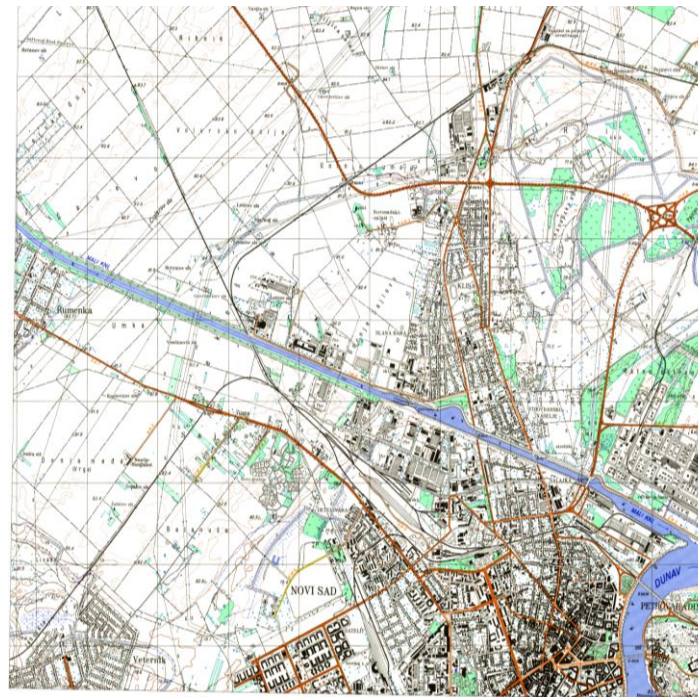
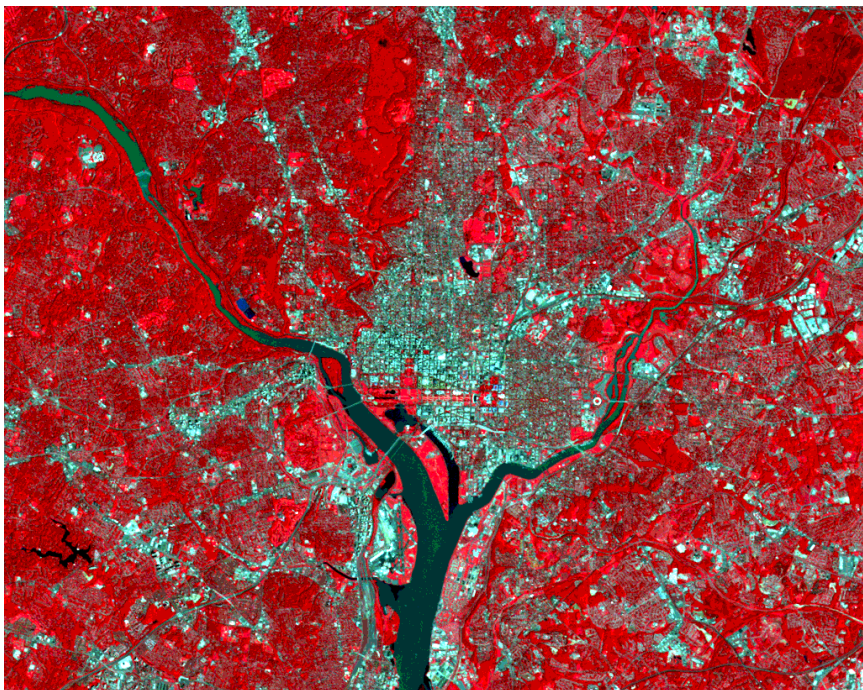
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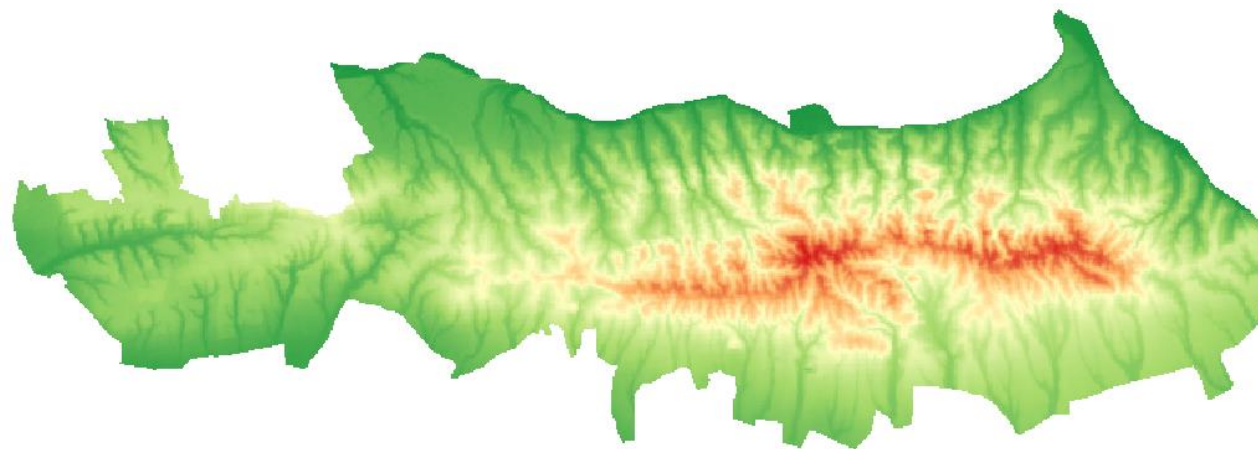
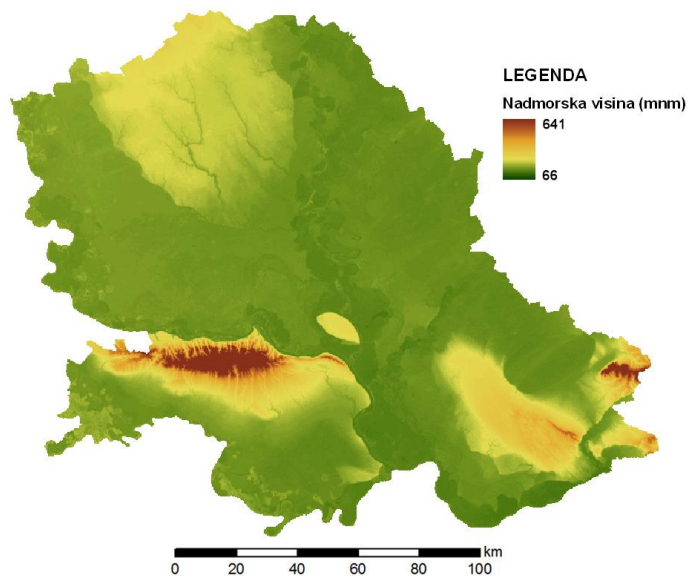


- Korišćenje georeferenciranih rastera



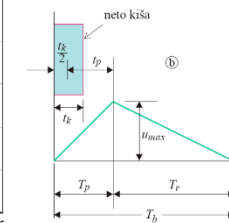
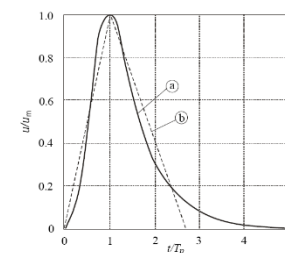
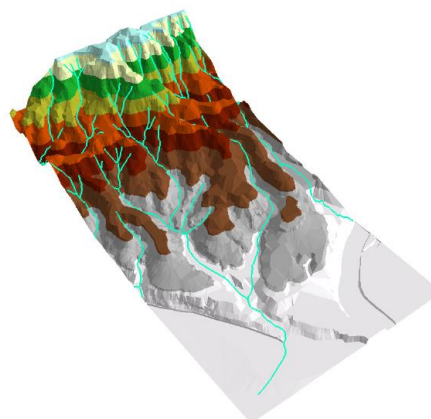
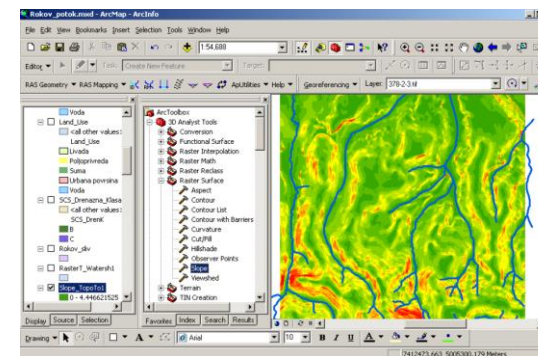
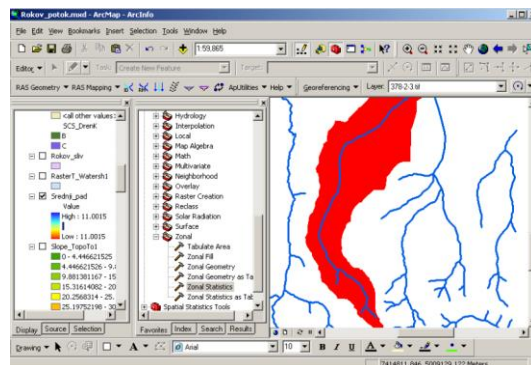
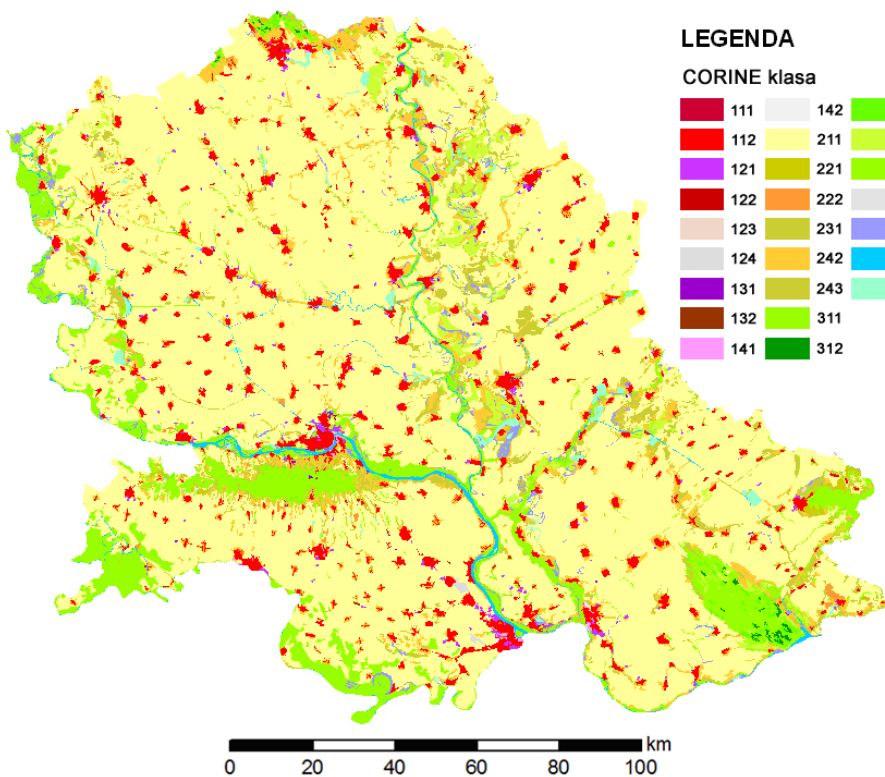


- Modeli za visinsku predstavu terena (TIN, DEM, DTM)





- Modeliranje načina korišćenja zemljišta u GIS-u, koeficijent oticaja, koeficijent hrašavosti

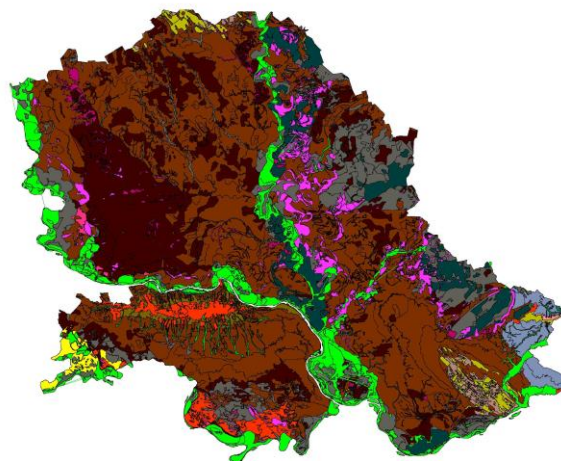
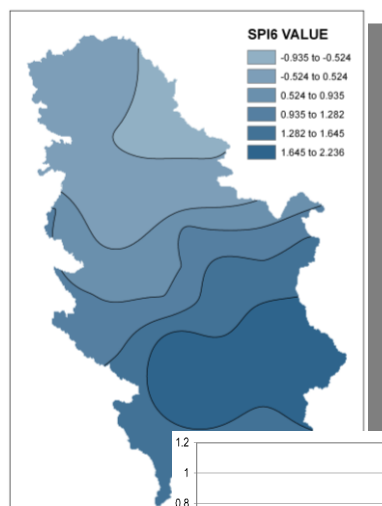


Sintetički jedinični hidrogram po SCS: a) krivolinijski jedinični hidrogram i b) aproksimacija trouglom.



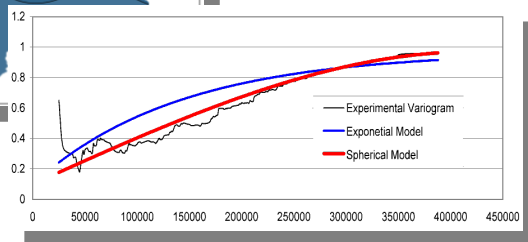
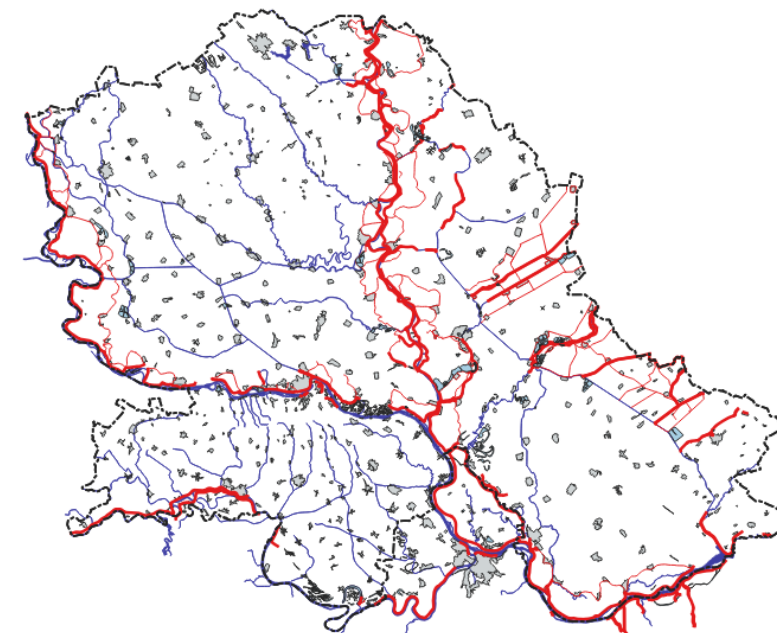


- Modeliranje hidrografske mreže, modeliranje meteoroloških podataka, modeliranje tipova zemljišta, modeliranje rečnih slivova

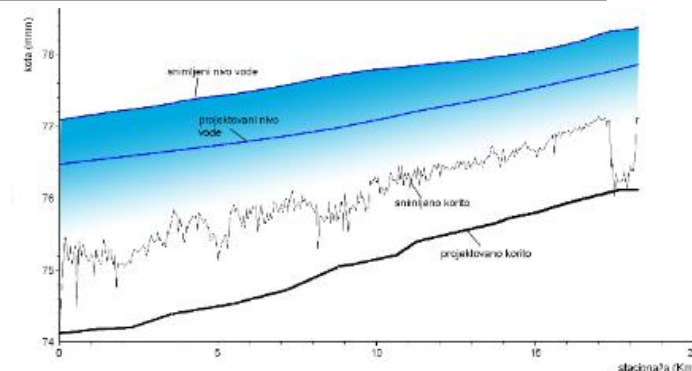
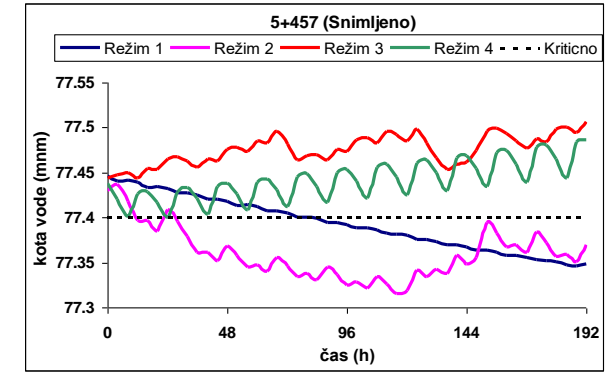
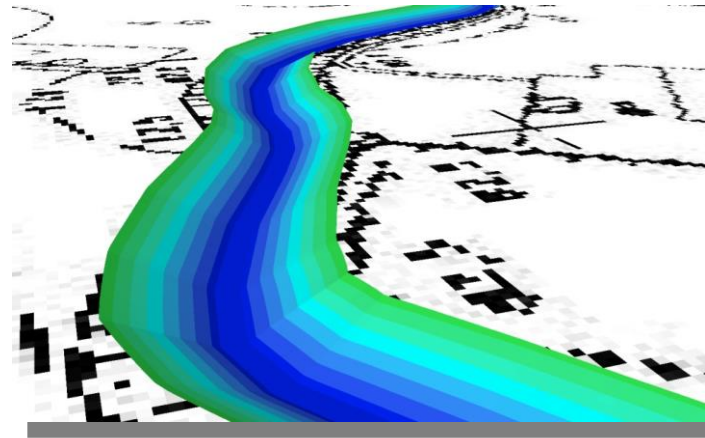
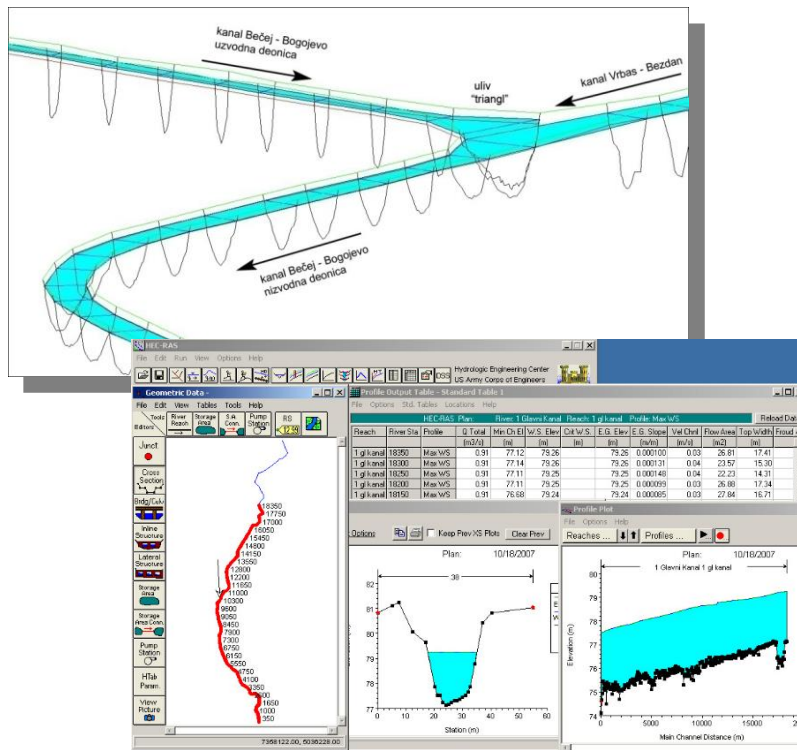


Tipovi zemljišta

- Inicijalno zemljište
- Pararendzina
- Rendzina
- Humusno silikatno zemljište
- Černozem
- Smonica
- Gajnjača
- Kiselo smeđe zemljište
- Pseudoglej - lesive
- Aluvijalno zemljište
- Deluvijalno zemljište
- Aluvijalno-deluvijalno zemljište
- Livadska crnica
- Riška crnica
- Riška smonica
- Močvarno glejno zemljište
- Tresetno zemljište
- Solončak
- Solonjec
- Solod



- Upravljanje procesima i resursima u GIS-u. Primena GIS-a i hidrauličkih softvera u funkcija menadžmenta vodnim resursima





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- *Praktična nastava*

Rad u GIS-ovim aplikacijama na konkretnim prostorima u računarskoj laboratoriji

Izrada elaborata.





- *Literatura*

1. Longley P., Goodchild M., Maguire D., Rhind D. :Geographic Information Systems and Science, John Wiley and Sons, LTD. 2002
2. Jovanović V., Đurđev B., Srdić Z., Stankov U.: Geografski informacioni sistemi, Univerzitet Singidunum i Univerzitet u Novom Sadu, Beograd, 2012
3. Benka P., Bezdan A.: Geografski informacioni sistemi – Praktikum, Poljoprivredni fakultet, Novi Sad, 2016

