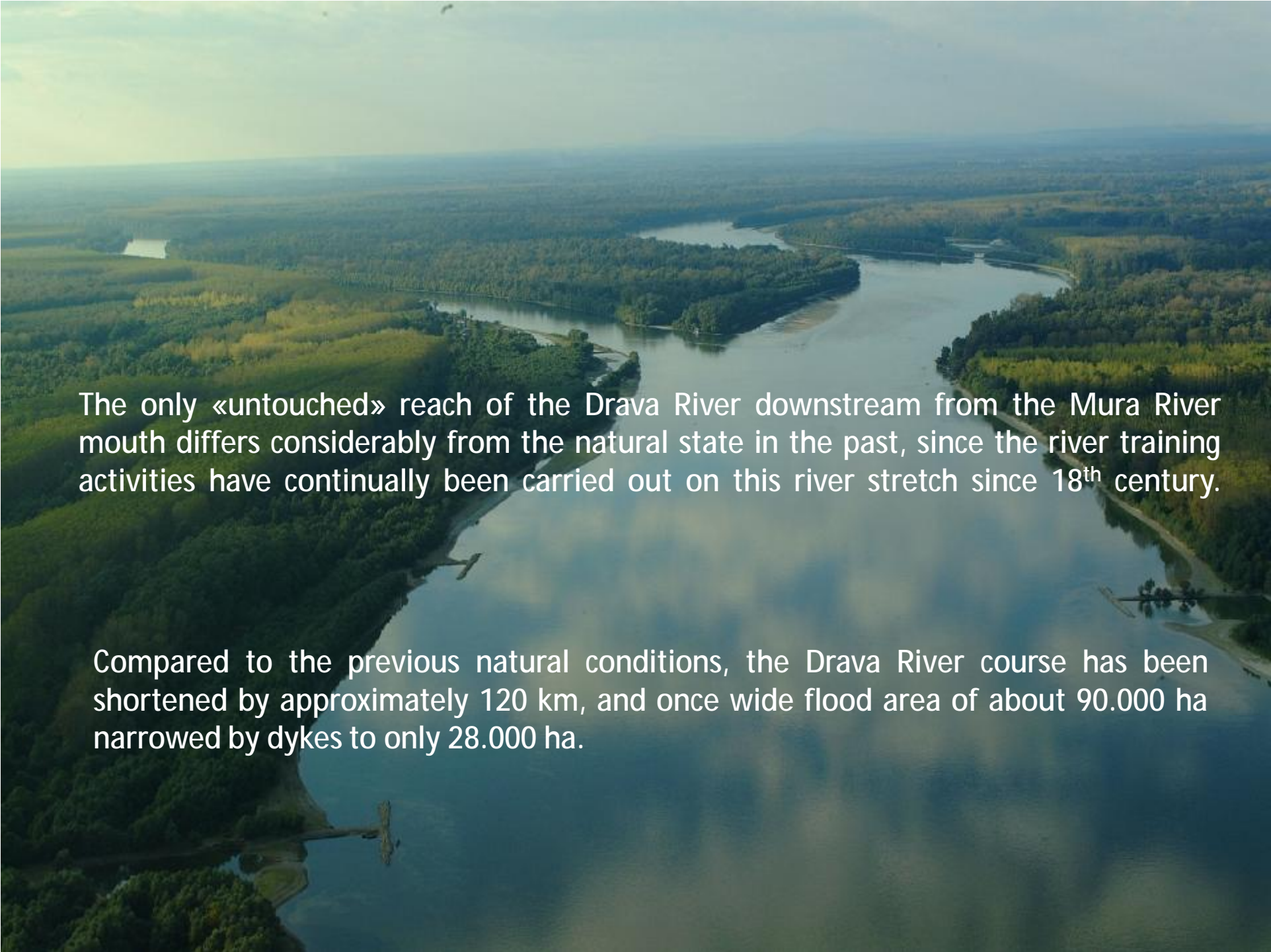


SUSTAINABLE PLANNING OF MULTIPURPOSE HYDROPOWER SCHEMES

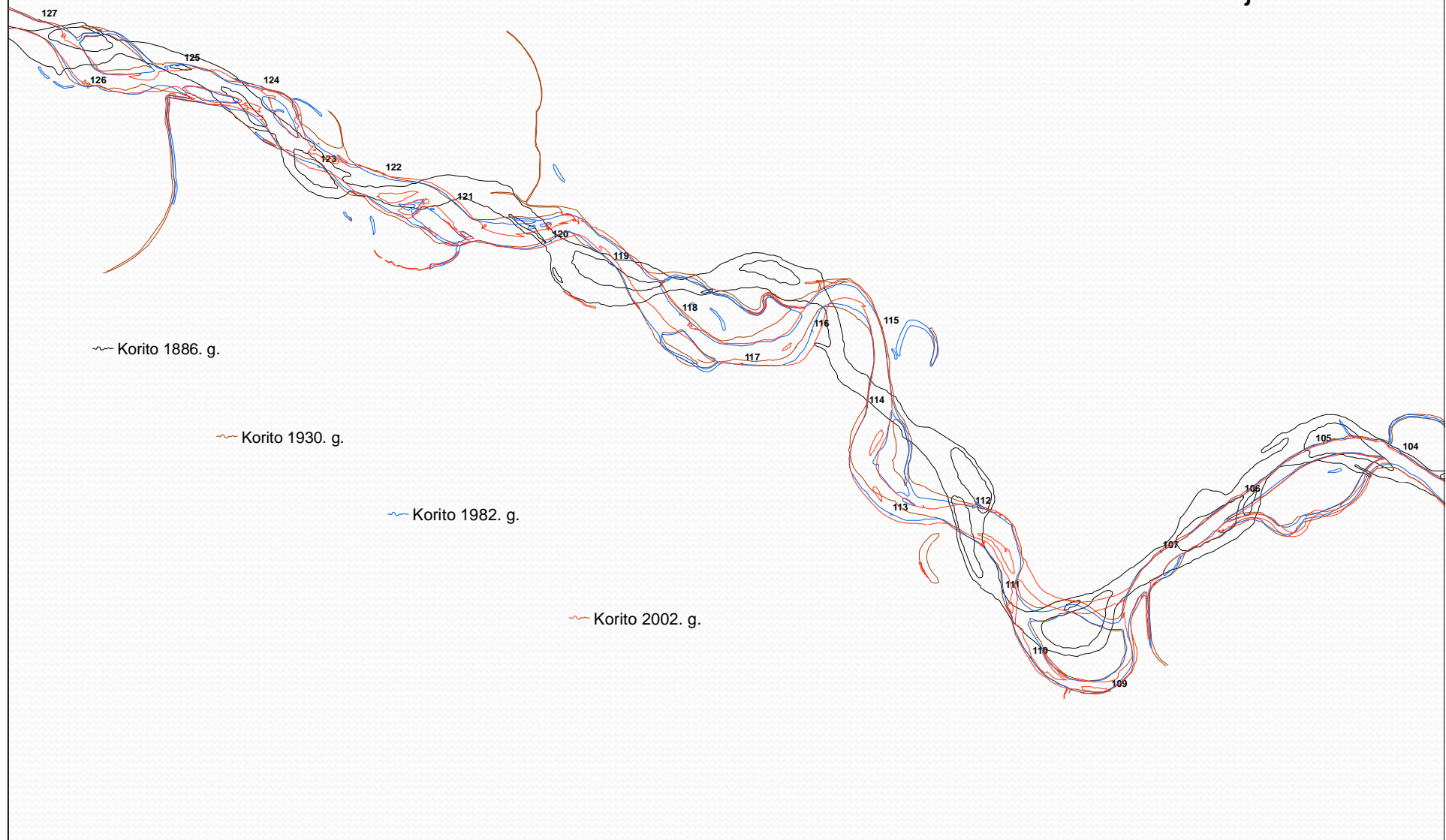
Zlatko Pletikapić, Stjepan Mišetić, Željko Pavlin, Maja Kerovec
Elektroprojekt d.d., Zagreb

An aerial photograph of the Drava River, showing a wide, calm waterway that meanders through a vast, dense forest. The river's surface is dark and reflects the surrounding greenery. The forest is composed of various shades of green, suggesting a mix of tree species. The sky is overcast with soft, diffused light. The overall scene is serene and natural, despite the text indicating human intervention.

The only «untouched» reach of the Drava River downstream from the Mura River mouth differs considerably from the natural state in the past, since the river training activities have continually been carried out on this river stretch since 18th century.

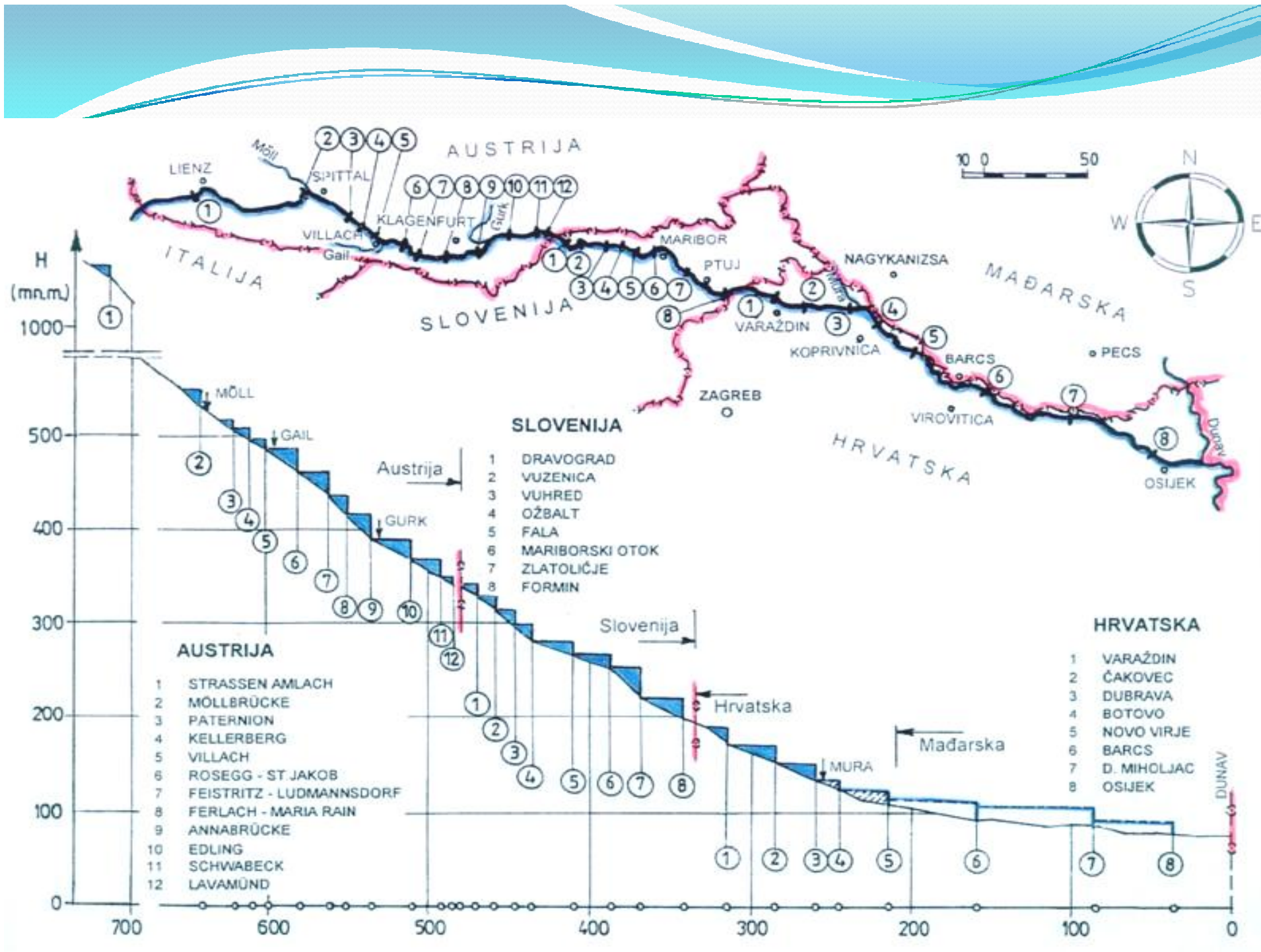
Compared to the previous natural conditions, the Drava River course has been shortened by approximately 120 km, and once wide flood area of about 90.000 ha narrowed by dykes to only 28.000 ha.

Dionica Drave od 104 do 125 km - Vrbovka - Terezino Polje



- Operation of the hydropower plants built upstream, in Austria, Croatia and Slovenia, affects the downstream water regime and load transport, while downstream course training by construction of regulating structures and dykes affects flood wave flow rates, all of which combined increases total river flow energy to its mouth into the Danube and causes its cutting into its own riverbed.





Proposed Biosphere Reserve Mura – Drava – Danube (Croatia)

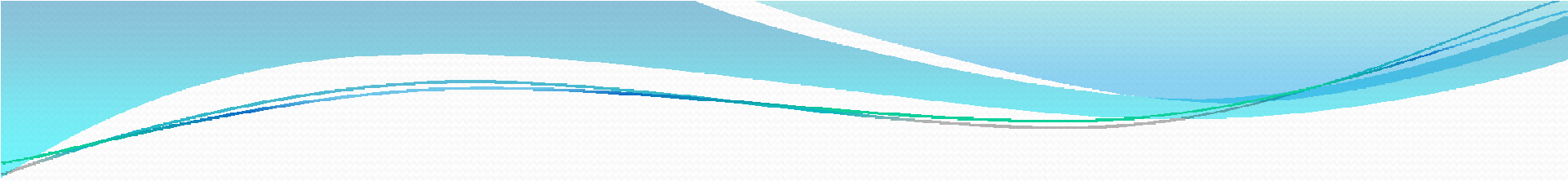


Križnica site and revitalisation concept costs: issues related to
Each of these concepts generates numerous issues related to

8,000 000,00 Euro

Mean 30-year runoff [mm/day]



- 
- These and similar issues could only be addressed by a multidisciplinary team of scientists and technical professionals which would offer new, comprehensive, complete solutions acceptable on a long-term basis for the local population and greater region.
 - The best concept of protection, development and use of the remaining Drava reach should be selected on the basis of sustainable development principle, which in this case means achieving the highest total value of the land along the river reach under consideration.



Thank you!