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Title of Abstract SARIB project: Data base and Tools for the Sava River Basin

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Text of Abstract

The Sava River (945 km) is the biggest tributary to the Danube River and has 95551 km2 large ca It extends over four countries, Slovenia, Croatia, Bosnia and Herzegovina and Serbia and Montene the needs of Water Framework Directive available data were collected, harmonized and integrated data assembled through field investigations. Until 1991, the methodological bases for data collect been reasonably unified over the catchment, but lucking a lot of today's important aspects such are ex character of the river and its tributaries, inventory of pollution sources, dangerous substances, socio e parameters, cost and benefit implications and similar. For the later period a lot of data are missin insufficient monitoring (financing, recent warfare) and weak institutional and legal control over use and land resources of the Sava river catchment. Many aspects of river quality need scientific invest Furthermore, there is a need to link the knowledge of river quality state and environmental and health pressures and their driving forces to propose efficient and beneficiary actions and measures for protec the needs of scientific investigation, an integrated expert data base and tools have been developed for river catchment in the project funded by EU scientific research programme and shortly named SARIB Harmonisation of collected data and information was done with two tools, SARIB Database and SAR In the first tool, relational data base structure is used. The main table is based on a list of SARIB s locations with WGS84 geographic coordinates. This means that data entered into SARIB Database matically connected (linked, harmonised) with the data in SARIB GIS. Here all information is georet The final structure of SARIB GIS has been developed in regard to spatial data collected within the project: RASTER IMAGE BACKGROUND, ADMINISTRATIVE BORDERS, THE SAVA RIVER MENT, RIVERS, WATER QUALITY, CORINE LANDCOVER 2000, AREAS WITH DIFFUSE POLI FROM AGRICULTURE, AREAS WITH SIGNIFICANT POLUTION SOURCES AND INTENSIV CULTURAL ACTIVITES, DISTANCE FROM CONFLUENCE, HYDROLOGICAL STATIONS, N ROLOGICAL STATIONS, SARIB MEASUREMENT POINTS, and GEOLOGY. Available data w formed into Lambert conformal conical projection. During transformation some problems occurred, a to projection and geographical transformations. Data source, provided by Serbia, includes basic eng geological map, scale 1:200.000. Data source, provided by Bosnia & Herzegovina Sarib partner, inclu classification. Serbia & Montenegro geological classification layer includes geological period and ba logical foundation. Harmonisation was done with editing graphical object with GIS standards (no over no slips, no overshoots or undershoots), putting objects into one geographical coordinate system and topology. Data have been imported into GIS SARIB. Then SARIB GIS internet platform has been de as spatially homogenised data warehouse with a data catalogue and data themselves. Very important aspect of building SARIB data tools is integration of data supplied from all SARIB part this respect, partners have developed mutual trust, collaboration spirit and support that will the most stay in the future. It is important, that research data and information obtained during SARIB research a are integrated into one data base, the SARIB Database. All locations from the sampling are in the GIS therefore relations exit between all data. The SARIB Database contains a list of sampling location, r laboratories analyses and information on hydrology that is related to a longitudinal profile (related b

description, and stacionaze).