







# Development of a Project Document for an Intervention on Improving Sediment Management in the Drina River Basin

- Draft Project Document -



**July 2022** 

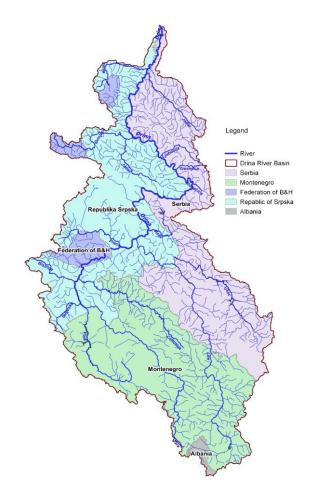
### **Background**

- The Preparation of a Project Document for an Intervention on Improving Sediment Management in the Drina River Basin (DRB) is within the framework of the "SEE Nexus Project", funded by the Austrian Development Agency and implemented by the GWP-Med and UNECE.
- The aim of the Nexus Project is to introduce the Nexus approach in South-East Europe and to catalyse action for its adoption and implementation. Project activities in the DRB facilitate a Nexus Dialogue Processes; include development of technical Nexus Assessments exploring cross-sectoral interlinkages and preparation of *Project Documents*.
- As the DRB is part of the Sava River Basin the riparian countries cooperate through the International Sava River Basin Commission.
- In 2017 the Parties to the Framework Agreement on Sava River Basin → Protocol on Sediment Management.
- Sediment management in DRB is part of the activities of the Drina Steering Committee and in line with the objectives of the Strategic Action Programme for the DRB.



### **Project Strategic Context**

- Drina River is the largest tributary of Sava River.
- Area of River Basin of 19,680 km<sup>2</sup>, nearly equally divided by three riparian countries: Montenegro (32%), Bosnia and Herzegovina (36%) and Serbia (31%).
- The Drina River is central for the environmental, economic, and social development of the three riparian countries. It provides water for agriculture and has an important potential for energy production (12,000 GWh/year).
- The DRB includes parts or the entire territory of 56 local government units and is home to over 1 million people.
- GDP per capita (2020) in the basin ranges from US\$6,080 in Bosnia and Herzegovina, US\$7,677 in Montenegro, and US\$7,731 in Serbia.
- Agriculture and forestry → natural conditions, but also from tradition; Majority of the population in the DRB is directly and indirectly reliant on agriculture and forestry.
- Depressed Local economy of many communities in the DRB.



# **Current Situation w/ Sediment Management**

- Due to natural conditions and anthropological impact → variety of sediment-related problems are present in the DRB.
- Land erosion and torrents → significant pressure to the basin ecosystem, significant long-term damages and threats to multiple sectors (agriculture, forestry, water management, hydropower, transport) and infrastructure.
- Anthropogenic effects on erosion processes → deforestation, irregular agrotechnical measures, intensive grazing and livestock breeding, uncontrolled urbanization and industrialization, unplanned opening of quarries, etc.
- Present regime of sediment in the DRB, conditioned by past anti-erosion measures and construction of structures in the riverbeds (dams/water reservoirs) that have altered the natural conditions of water and sediment flow.
- No systematic system for measuring and monitoring sediment exists for the basin as a whole.
- "Towards Practical Guidance for Sustainable Sediment Management using the Sava River Basin as a Showcase" (ISRBC, 2013) → Sediment balance.
- "Scoping Study on Erosion and Sedimentation in the Drina River Basin" (2019) → overview of the state of the erosion in the basin + preliminary erosion maps for all riparian countries.

### **Identified Sediment Management Problems**

- Insufficient awareness of erosion factors and processes across various economic sectors
- Diverse/inadequate institutional capacities of governmental and other public organizations for integrated water resource and sediment management in all DRB riparian countries
- > Incomplete and non-compliant with EU Directives legislation and plans for sediment management
  - Lack of comprehensive basin-scale sediment monitoring system
  - Inefficient sharing of sediment-related data among the riparian countries
  - > Deteriorated anti-erosion, torrential flow, and landslide management infrastructure
    - Insufficient funding for infrastructure maintenance, restoration and upgrade



- Continuous land-loss from erosion processes
- Deposition of sediment in riverbeds and water reservoirs
  - Chemical and nutrient pollution of water resources
  - Increased risk from torrential floods and landslides



- Economic losses from damages
- Environmental degradation of water and other natural resources

# **Project Approach (guiding principles)**

**Focus** → primarily on strengthening capacity and adaptive capabilities of riparians for managing aspects related to creation, transport and deposition of sediments

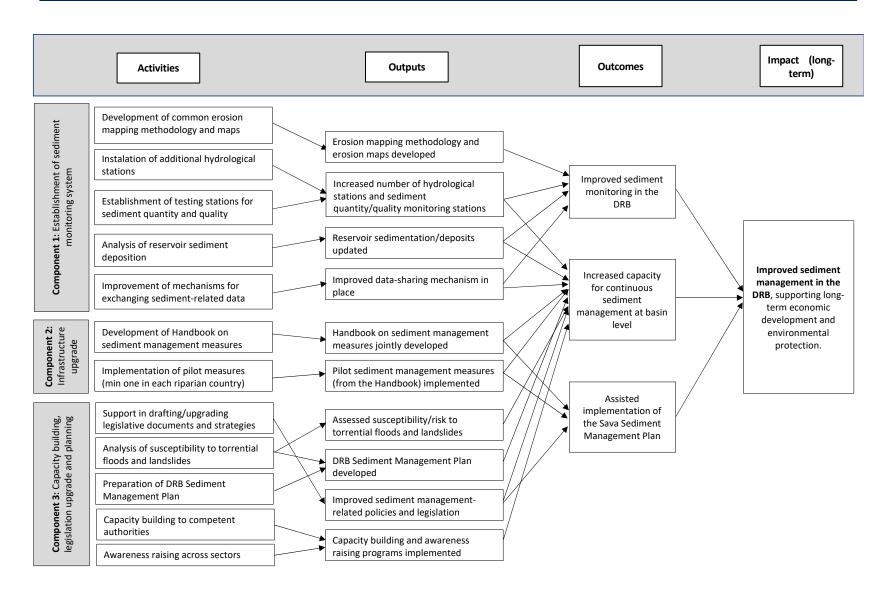
**Improved sector reform** → prerequisite towards accomplishing lasting impact beyond project duration

**Improved sediment management planning** → ongoing planning support and certainty, to assist in comprehensive infrastructure planning and encourage additional co-financing

Mobilization of stakeholders → (1) national governments and regulators; (2) sediment management utilities; (3) public or private organizations across different sectors; (4) development partners

Trans-boundary cooperation, information exchange and knowledge transfer → sharing of lessons learnt and innovative approaches between the riparian countries

# **Proposed Project Logic**



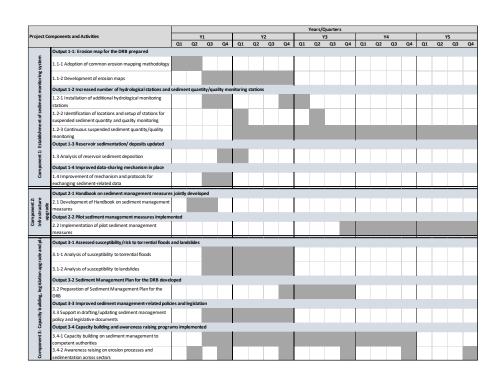
### **Project Beneficiaries**

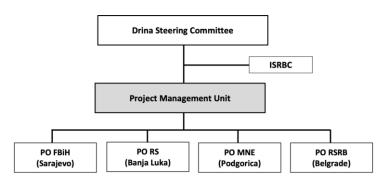
#### **Drina Steering Committee**

<u><b>BiH</b></u> ☐ Ministry of Foreign Trade and Economic Relations		MNE  ☐ Ministry of  Agriculture and	RSB ☐ Ministry of Agriculture,
FBiH  Federal Ministry of Agriculture, Water Mngt. and Forestry  Federal Ministry of Env. and Tourism	RS  Ministry of Agriculture, Forestry and Water Mngt.  Ministry of Transport and Communication	Rural Development  Ministry of Environment, Spatial Planning and Urbanism	Forestry and Water Management  Ministry of Environmental Protection
□ Sava River Watershed Agency, Sarajevo □ Federal Hydrometeo- rological Service, Sarajevo	□ Public Institution	□ Environmental Protection Agency of Montenegro □ Institute for Hydrometeo- rology and Seismology □ "Elektroprivreda Crne Gore" AD Niksic	□ Public Water Management Company "Srbijavode" □ Republic Hydrometeo- rological Office of Serbia □ "Elektroprivreda Srbije", Bajina Bashta

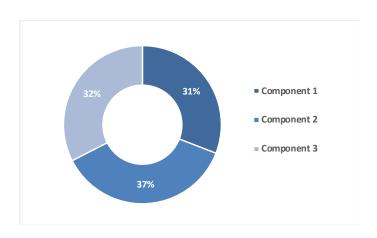
Direct Project beneficiaries are also: (1) inhabitants in affected communities; (2) communities with Pilot projects; and (3) participants in awareness raising activities.

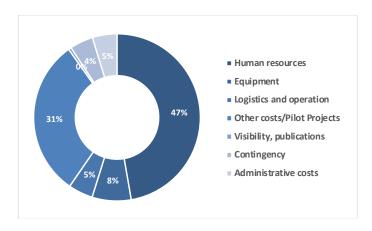
### Project Workplan, Management and Budget





#### Total: 6.54 mill Euro





### **Environmental, Economic and Social Impact**

**Nexus approach** → benefits to multiple sectors + reduced pressure on ecosystems

#### **Environmental benefits**

Improved water quality

Improved environmental monitoring

Ecosystems-based response → afforestation, land management



#### **Economic benefits**

Society level

Household level

Businesses and public services



#### Social benefits

Improved livelihood

Sustainability of renewable energy (hydropower)

Food security



# **Sustainability of results**

### **Contribution to creation of enabling environment**

Development of capacities on a national and regional level related to data collection for improved weather/torrential flood forecasting, flood modelling, flood and landslide risk assessment, flood and landslide risk planning, etc.

### Contribution to regulatory framework and policies

Preparation of policy documents focused on enabling sustainable performance of national and local organizations responsible for water resource management on a country level.

### Potential for scaling-up and replication

Following the successful implementation of the project, the DRB region countries will be in an advanced position to replicate its specifics across other areas.