Approaches to climate change in the Sava River Basin

Expert Group on Flow Regulation and Environmental Flows
Zagreb, 11-12 June, 2019
Climate Change Adaptation

**Water & Climate Change Adaptation Plan**
- Implemented by the WB (2015)
- Analysis of historic climate trends
- Climate and hydrological modelling
- Main report + Guidance notes
  - Navigation
  - Hydropower
  - Agriculture
  - Flood protection
  - Economic evaluation of CC impacts

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Climate Adaptation Plan

- Analysis of climate and hydrologic trends
- Temperature scenarios
- Precipitation scenarios

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- Change in mean annual runoff

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- **Change in ensemble median values of low flows** (95% mean monthly Q)

![Graphs showing change in ensemble median values of low flows](image)

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Other projects/activities

- **Consideration of intersectoral linkages** (water, food, energy, navigation, tourism, environment)
  - **Sava Nexus** – finished in 2015,
  - **Danube Water Nexus Project – Sava Case Study**, implemented by the EC Joint Research Center (finalized in 2016)
  - **Drina Nexus Assessment** – finished, June 2017
Climate Change Adaptation

- **Outline of the Climate Adaptation Strategy and priority measures basin-wide for the SRB**
  - to develop the **Outline** in consistence with ICPDR’s regional adaptation strategy;
  - to identify some **priority basin-wide measures** building on documents and studies available at national and regional levels;
  - to suggest **modalities and cost estimates** for the full development of the strategy and of its action plan.
  - Timeframe (June-October 2017)

The project was supported by: **French Ministry of Ecological and Inclusive Transition, International Office for Water** and UNECE.
Outline of CCA Strategy

- **CC Adaptation measures**
  - National
    - Improve **risk forecasting** and analysis;
    - Increase **research**
    - Risk **prevention** and **reduction**;
    - Better **cooperation** and **coordination** among institutions;
    - **Capacity building**.
  - Transboundary
    - **Preparation** measures for adaptation
    - **Ecosystem-based** measures
    - **Behavioral changes** measure
    - **Policy** measures
    - **Technological** measures
    - **Disaster risk reduction** measures

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Climate change adaptation

• Future steps
  – Develop of **Climate Adaptation Strategy** for the SRB
    • Ensure consistency between work being done at basin and national levels
  – Implementation of CC **adaptation measures**
    • Identify priority CC adaptation measures for the SRB
    • Integrate actions into planning activities at national level
    • Ensure integration of CC measures into RBM Plan

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