STRATEGIC PRIORITY 4

Ensure water security by managing and mitigating floods and droughts

**Better informed and prepared basin communities against changing river conditions, and more frequent and severe floods and droughts**

**Outcome 4.1**

**Output 4.1.1**

- Consolidate and remaining national river monitoring networks
- A core river monitoring network for the mainstream
- Monitoring of mainstream hydropower and agreed components of the Joint Environmental discharge and sediment, water quality, and reporting activities (hydro-meteorological, technology) as part of the core monitoring network analysis informed by current and future needs
- Enhance monitoring methods for rivers (incl. by using remote earth observation systems)

**Output 4.1.2**

- Integrated data and information systems for more effective basin-wide data management and sharing
- Develop and implement information sharing protocols for coordinating and communicating river management
- Enhance flash flood guidance to basin countries through reinvigorated and compatible DSS's, enhanced exchange of data, information to basin countries through agreed communication protocols

**Output 4.1.3**

- Coordinated water infrastructure operations for basin-wide flood and drought forecasting and early warning
- Develop and implement information sharing protocols for coordinating and communicating river management
- Develop and implement information sharing protocols for coordinating and communicating river management
- Support mainstreaming of climate change adaptation to increased climate risks, floods and droughts into regional and national water resources management strategy including finalisation of the 2023 State of Basin Report with all the 2023 State of Basin Report

**Output 4.1.4**

- Implement improved and integrated regional flood and drought forecasting and early warning (extension to annual forecast, three to six monthly and seasonal outlook)
- Enhance flash flood guidance to basin countries through reinvigorated and compatible DSS's, enhanced exchange of data, information to basin countries through agreed communication protocols

**Output 4.1.5**


**Outcome 4.2**

**Output 4.2.1**

- Coordinated water infrastructure operations for basin-wide flood and drought forecasting and early warning
- Develop protocols for coordinating and communicating river management
- Support implementation of flood mitigation guidelines
- Continue review of existing dam operating rules and governance arrangements and development of basin-wide river management collaboratively through data sharing, information, modelling and outputs
- Support implementation of the drought management mainstream at national levels

**Output 4.2.2**

- Support mainstreaming of climate change adaptation to increased climate risks, floods and droughts into regional and national water resources management strategy including finalisation of the 2023 State of Basin Report with all the 2023 State of Basin Report
- Support implementation of flood mitigation guidelines
- Further identify and facilitate implementation of transboundary projects on climate change adaptation and water resources management through communication tools, improved MRC Web datasets)
- Develop protocols for coordinating and communicating river management
- Further study the management and planning (incl. of the impact of climate change to water infrastructure and development of basin-wide river management collaboratively through data sharing, information, modelling and outputs
- Support implementation of flood mitigation guidelines
- Continue review of existing dam operating rules and governance arrangements and development of basin-wide river management collaboratively through data sharing, information, modelling and outputs
- Support implementation of the drought management mainstream at national levels
- Support implementation of flood mitigation guidelines
- Further study the management and planning (incl. of the impact of climate change to water infrastructure and development of basin-wide river management collaboratively through data sharing, information, modelling and outputs
- Support implementation of the drought management mainstream at national levels
- Support implementation of flood mitigation guidelines
- Support mainstreaming of climate change adaptation to increased climate risks, floods and droughts into regional and national water resources management strategy including finalisation of the 2023 State of Basin Report with all the 2023 State of Basin Report