



ROADMAP FOR AN ACTION

Priority Area 5 - To manage environmental risks

Action 1 - "To develop and adopt one single overarching floods management plan at basin level or a set of flood risk management plans coordinated at the level of the international river basin"

Milestone n°1: Preliminary flood risk assessment on level A

- *Work:* EFD Article 4(2) stipulates that based on available or readily derivable information, such as records and studies on long term developments, in particular impacts of climate change on the occurrence of floods, a preliminary flood risk assessment shall be undertaken to provide an assessment of potential risks. For the Danube River Basin District a single roof report on preliminary flood risk assessment will be prepared on the level A describing the approaches taken by the countries including the coordination aspects. The report will also address the topics from the EU Reporting Sheet on preliminary flood risk assessment including description of coordination of the identification of the areas of potential significant flood risks (APSEFR) within an international river basin district in accordance with the EFD article 5(2).
- *Output n° 1:* Preliminary flood risk assessment report;
→ *Responsible:* FP EG
→ *Deadline:* end 2011

Output no 1: Ready. Presented to the 14th Ordinary Meeting of the ICPDR. Report adopted by the Heads of Delegations. Report sent to Brussels.

Milestone n°1 completed.

Milestone n°2: Preparation of flood hazard and flood risk maps

- *Work:* EFD requires that Member States shall, at the level of the river basin district, or unit of management, prepare flood hazard maps and flood risk maps, at the most appropriate scale for the areas identified under Article 5(1). The preparation of flood hazard maps and flood risk maps for areas identified under Article 5 which are shared with other Member States shall be subject to prior exchange of information between the Member States concerned. The ICPDR will use the templates developed at the EU level as well as the outcomes of the FLOODRISK project to develop its templates by the end of 2012 and to prepare flood hazard and flood risk maps by the end of 2013.
- *Output n° 1:* ICPDR templates for flood risk mapping (2012);
- *Output n° 2:* Flood hazard and flood risk maps on the level A (2013).
- *Output n° 3:* Flood hazard and flood risk maps on the level A endorsed by the SG (2013).
→ *Responsible:* FP EG
→ *Deadline:* end 2013

The ICPDR maps are based on of the EU document "Reporting of spatial data for the Floods Directive (Part II); Guidance on reporting for flood risk and hazard maps of spatial information" and the templates and basic layout of the flood hazard map and flood risk maps were agreed by the FP EG. At the 23rd FP EG meeting the first draft maps were discussed and the amendments in the map format were agreed. For the 24th FP EG meeting the revised maps were prepared by the Secretariat using the data from AT, BA, DE and SK:

- (i) map of hazard and flooding scenarios;
- (ii) map on risk and population;
- (iii) map on risk and economic activity;
- (iv) map on risk and IPPC installations and
- (v) two maps on WFD protected areas.

The flood hazard areas are submitted via DanubeGIS as shape files in cooperation with the IMGIS EG. For preparation of risk maps the data are collected by the template developed by the Secretariat. Using the national text contributions to the Secretariat prepared the first draft of the Summary Report on implementation of Article 6 of the European Floods Directive in the Danube River Basin District.

The national deadlines for map preparation reported by a number of countries at the 23rd FP EG meeting and reconfirmed at the 24th FP EG meeting extend until the end of 2014. Therefore, only a draft version of the ICPDR flood hazard and risk maps could be prepared for OM16 to obtain a general agreement of the ICPDR with the layout of the maps. These draft maps and text report will be uploaded on the ICPDR web-site so that the countries reporting to the EC can use the web-link to the ICPDR report in their national re-ports to the EC. The collection of missing data will continue in 2014 to prepare an updated version for the 12th StWG meeting. After the adoption by the ICPDR the updated version will be uploaded to the ICPDR website.-

DANUBE FLOODRISK project has been finished. "Harmonized Manual of Data & Methods"; "Harmonized Manual of Maps" and the "Danube Flood Hazard and Risk Atlas" printed.

Output n° 1: Prepared and adopted by the ICPDR FP EG.

Output n° 2: Due in June 2014.

Output n° 3: Due in 2014.

Milestone n°3: Preparation of flood risk management plan for Non-Member States

- *Work: Where an international river basin district, or unit of management referred to in Article 3(2)(b), extends beyond the boundaries of the Community, Member States shall endeavour to produce one single international flood risk management plan or a set of flood risk management plans coordinated at the level of the international river basin district. In order to help coordinating this activity the following work need be done:*

Preparation of projects proposals and provision of funding for the preparation of flood risk management plans for Danube Region areas of Non-Members States.

- *Output n° 1:* Project generation (June 2013).
- *Output n° 2:* Final flood risk management plan integrated into the respective flood risk management plan of the MSs (22 Dec 2015).
→ *Responsible:* SG, FP EG

→Deadline: June 2013 and 22 Dec 2015

Output n° 1: “Common Hungarian-Ukrainian flood protection development programme on the Upper Tisza” has been developed.

Output n° 2: Not relevant yet.

Milestone n°4: Preparation of flood risk management plan

- *Work: On the basis of the maps referred to in EFD Article 6, Member States shall establish flood risk management plans coordinated at the level of the river basin district, or unit of management referred to in EFD Article 3(2)(b), for the areas identified under EFD Article 5(1) and the areas covered by Article 13(1)(b) in accordance with paragraphs 2 and 3 of EFD Article 7. Member States shall establish appropriate objectives for the management of flood risks for the areas identified under EFD Article 5(1) and the areas covered by EFD Article 13(1)(b), focusing on the reduction of potential adverse consequences of flooding for human health, the environment, cultural heritage and economic activity, and, if considered appropriate, on non-structural initiatives and/or on the reduction of the likelihood of flooding.*

Flood risk management plans shall include measures for achieving the objectives established in accordance with paragraph 2 of EFD Article 7 and shall include the components set out in Part A of the Annex to EFD.

Flood risk management plans shall take into account relevant aspects such as costs and benefits, flood extent and flood conveyance routes and areas which have the potential to retain flood water, such as natural floodplains, the environmental objectives of Article 4 of Directive 2000/60/EC, soil and water management, spatial planning, land use, nature conservation, navigation and port infrastructure.

Flood risk management plans shall address all aspects of flood risk management focusing on prevention, protection, preparedness, including flood forecasts and early warning systems and taking into account the characteristics of the particular river basin or sub-basin. Flood risk management plans may also include the promotion of sustainable land use practices, improvement of water retention as well as the controlled flooding of certain areas in the case of a flood event.

The preparation of flood risk management plan for the Danube River Basin is a natural continuation of the implementation of the ICPDR Action Programme on Sustainable Flood Protection in the Danube River Basin. Flood risk management plan represents the next step after developing of flood action plans in sub-basins. The ICPDR will prepare a roof plan for the level A providing the general overview of the measures and highlighting the principles of international coordination in DRBD.

- *Output no 1: Table of Contents of the flood risk management plan (end 2013);*
- *Output no 2: Draft flood risk management plan for public consultation (end 2014);*
- *Output no 3: Final flood risk management plan (end 2015).*
- *Output no 4: Flood risk management plan on the level A endorsed by the SG (2015).*
→ *Responsible: FP EG*
→ *Deadline: 2015*

The ICPDR agreed upon the following basin-wide goals of the flood risk management plan:

- Avoidance of new risks;**
- Reduction of existing risks;**
- Strengthening resilience;**

(iv) Raising awareness;

(v) Solidarity principle.

These goals will be linked with the respective measures. While the full list of measures will be provided at the national level, at the level of an international river basin district the focus should be given to the measures with the transboundary relevance. The plan should provide clear figures summarizing the actions already taken/to be taken by the countries and/or figures characterizing the effects of the measures. The Secretariat developed a draft template for collection of information on measures distinguishing between the implemented, ongoing and future measures. The template is structured according to the agreed goals and refers to the types of measures from the EU guidance. The template has been distributed to the FP EG to collect the data. Before the 24th FP EG meeting only Bosnia and Herzegovina and Moldova submitted the completed templates. Most of the other countries will report on measures by February 2014. The prioritization of measures on the level A will be done after most of the national measures will be collected by the templates. All countries were asked to provide at the next FP EG meeting a short description of the national prioritization methodologies and to come up for the next meeting with suggestions of priorities for measures at the level A.

The Secretariat prepared the table of contents of the ICPDR Flood Risk Management Plan 2015. The FP EG browsed through the table of contents line by line and suggested the necessary revisions. The Secretariat was asked to update the table of contents of the ICPDR FRMP 2015 accordingly and send it to the FP EG for a quick feedback before it will be presented to OM16.

To have sufficient time for discussing the ICPDR Flood Risk Management Plan 2015 it was agreed to organize a workshop on this issue back-to-back to the next FP EG meeting

Output n° 1: Table of Contents of the ICPDR Flood risk management plan drafted

Output n° 2 - 5: Not relevant yet.

GAPS:

1. *Milestone n° 2:* Support the preparation of flood hazard and flood risk maps at the national level.
2. *Milestone n° 3:* Generate projects to help prepare flood risk management plans for non-MSs (Upper-Tisza, Prut, Danube, Sava etc.)
3. *Milestone n° 4:* Help ICPDR prepare a basin-wide flood risk management plan.