9th Steering Group Meeting of the EU SDR PA4

09 June 2015, Budapest, Hungary

ICPDR activities

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Recent activities of the ICPDR

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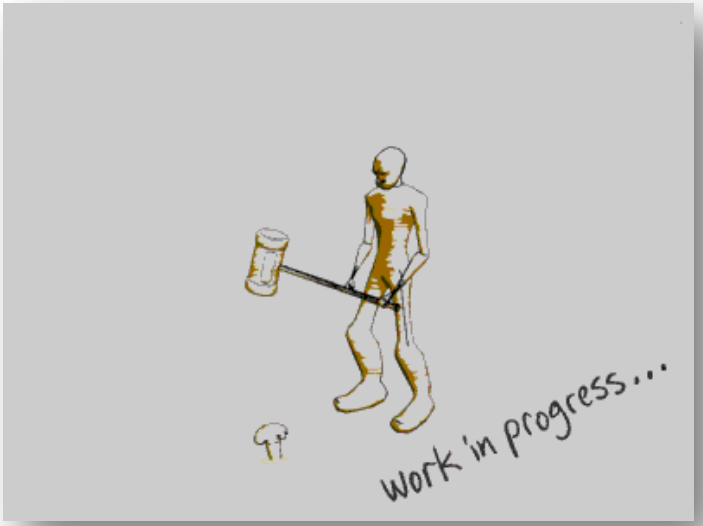
- **Joint Danube Survey 3** – published final report
- **Danube River Basin District Management Plan – Update 2015** – published draft report
- **1st Flood Risk Management Plan for the DRB** – published draft report



EU Water Framework Directive

Draft Danube River Basin Management Plan 2015

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WFD Implementation Cycle

2004, 2013 and every 6 years thereafter

WFD Analysis Reports - Pressure and Impact Assessment

6 Years Mgmt. Cycle

River Basin Management Plans & Program of Measures

2009, 2015 and every 6 years thereafter

Program of Measures operational

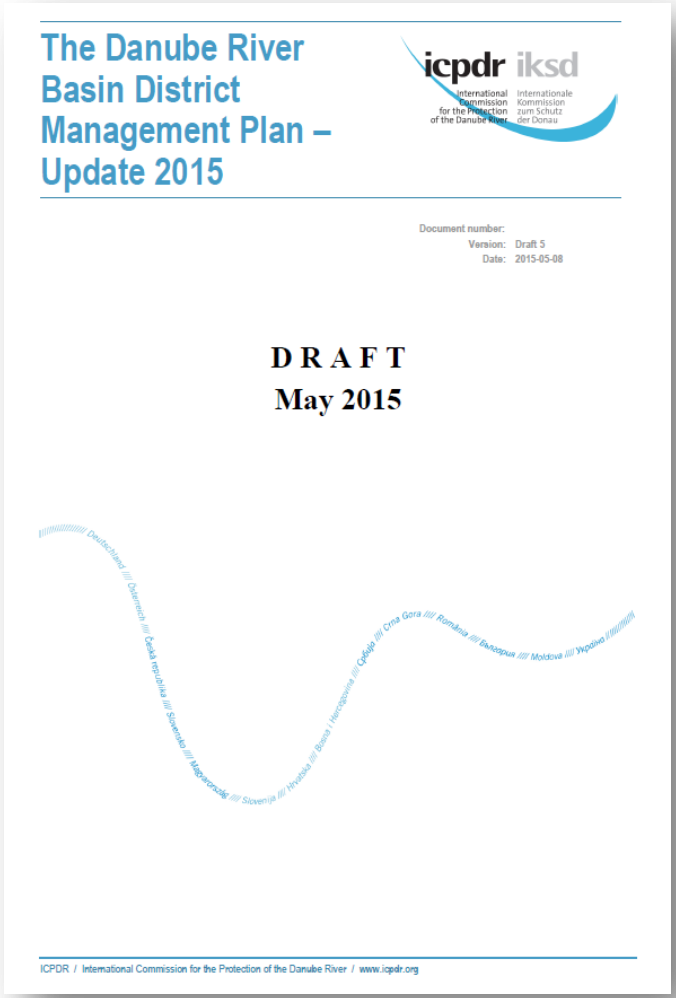
2012 and every 6 years thereafter

2013 Update DBA: Step towards draft DRBM Plan – Update 2015

- **2013 Update DBA** (published in October 2014):
  - Updated typology
  - Updated pressures assessment (organic, nutrient, hazardous substances pollution, hydromorphological alterations)
  - Updated designation of water bodies, HMWB, AWB
  - Updated risk assessment to fail good status/potential
  - Updated economic analyis, etc.
- **No legal requirement** for elaboration of updated DBA on international level **but**
- **Important step towards Draft DRBM Plan – Update 2015**

DRAFT DRBM Plan – Update 2015

- **Determines priorities** for transboundary water management on the Danube basin-wide level for the period 2015 to 2021
- **December 2014**: **DRAFT DRBMP 2015** published for launching public consultation (WFD Art. 14)
- **June 2015**: **Revised DRAFT** DRBMP 2015 elaborated with updated data (i.a. on pollution figures, water status and measures) and adopted



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Draft DRBM Plan 2015 – some examples

Updated pressures assessment: Urban Wastewater Treatment

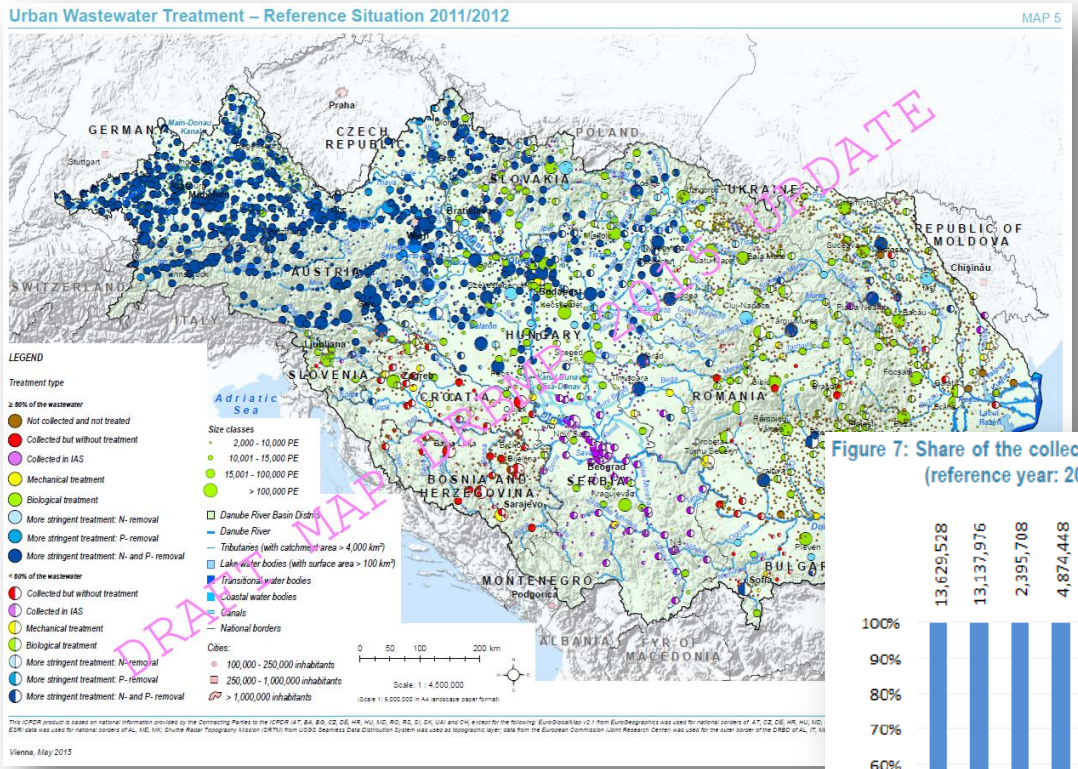
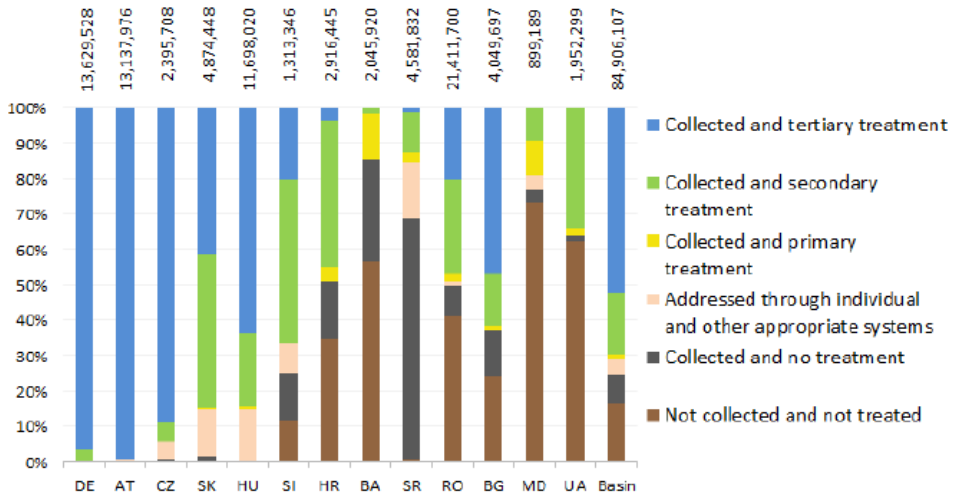


Figure 7: Share of the collection and treatment stages in the total population equivalents in the Danube countries (reference year: 2011/2012, absolute numbers on the top refer to PE)

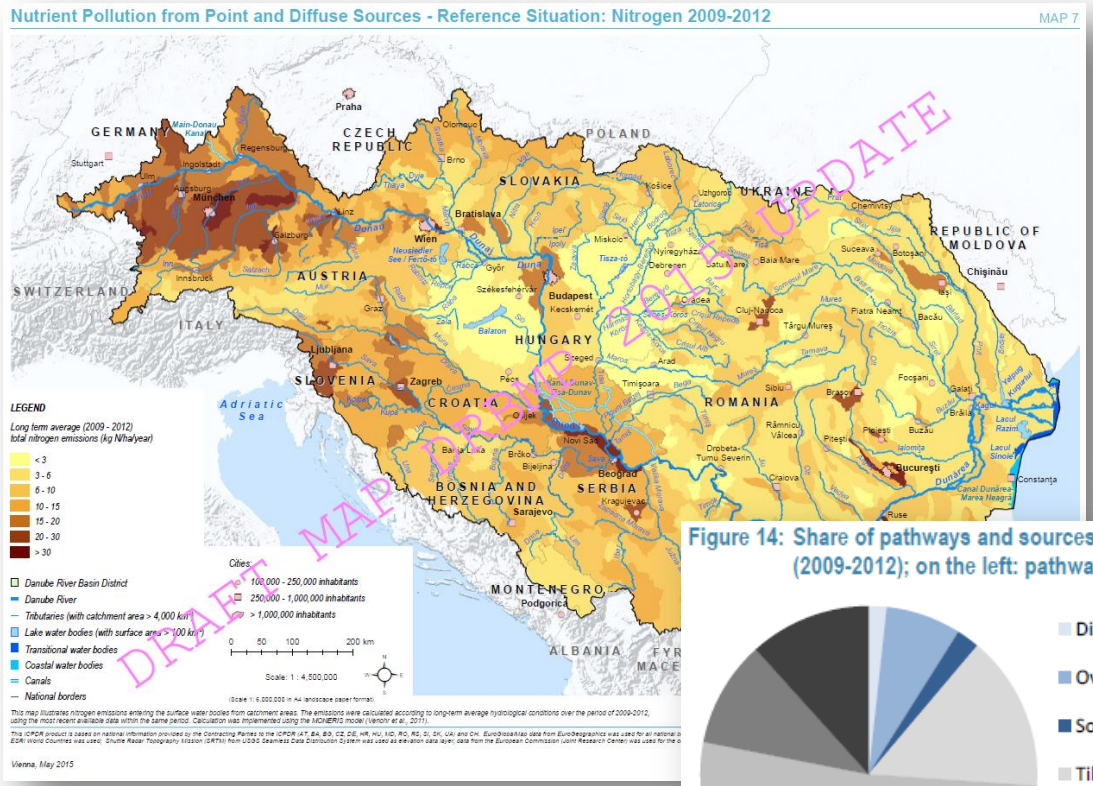


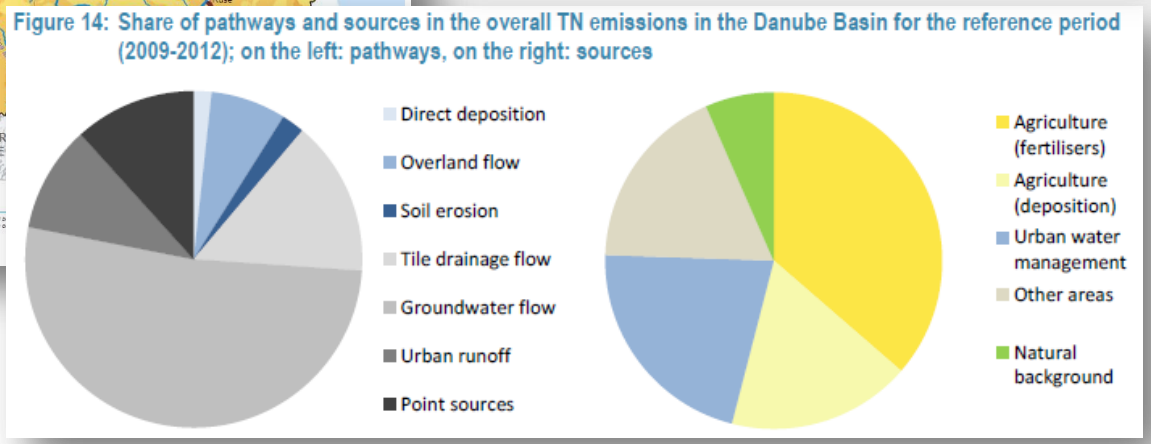
27% needs basic infrastructural development

Downstream countries: emissions are related to untreated waste water

Draft DRBM Plan 2015 – some examples

Updated pressures assessment: Point and diffuse nutrient sources



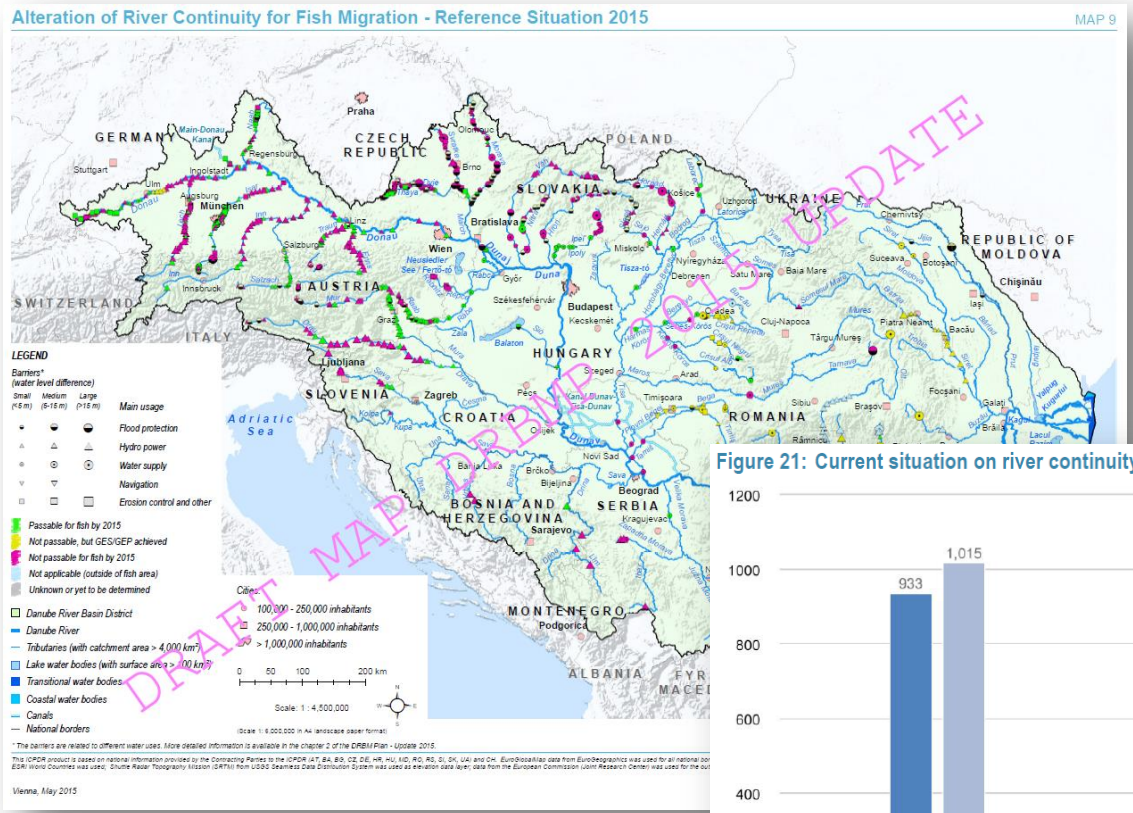


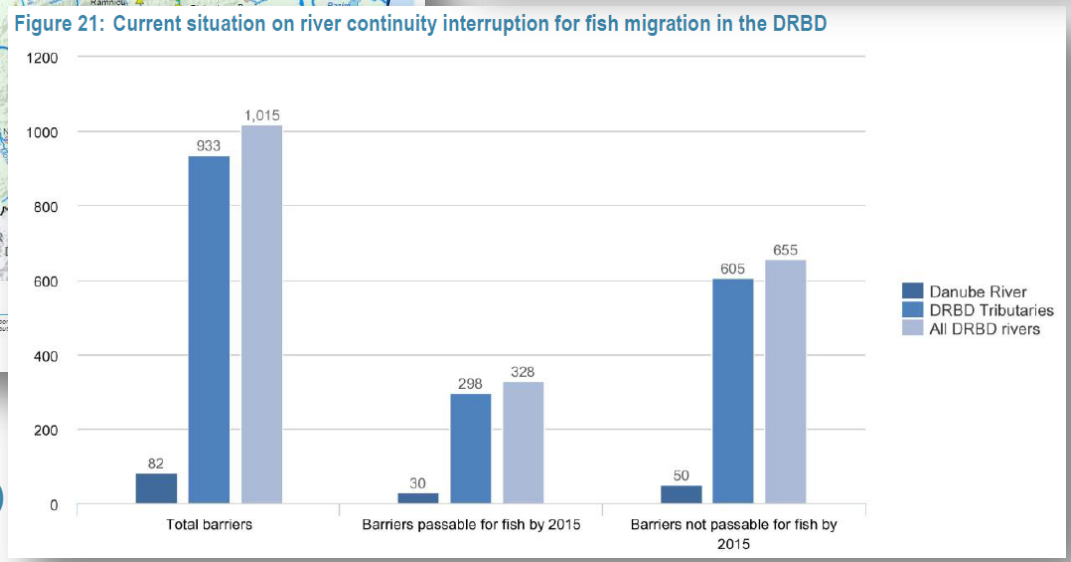
TN: 675 000 tons per year

Dominance of diffuse sources

Draft DRBM Plan 2015 – some examples

Updated pressures assessment: Hydromorphological alterations





river continuity and morphology
disconnected wetlands and floodplains
hydrology (impoundments, hydropeaking)
future infrastructure projects

Draft DRBM Plan 2015 – some examples

Updated HMWB designation and status assessment

Figure 31: Ecological status and ecological potential for river water bodies in the DRBD (indicated in length in km)

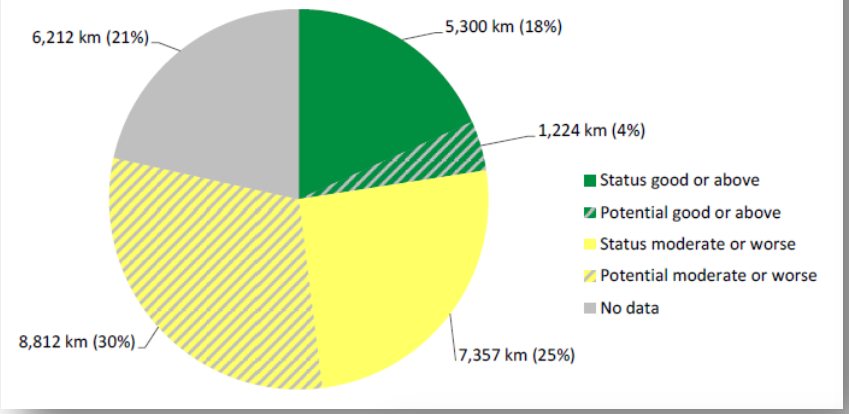


Figure 33: Chemical status for river water bodies in the DRBD (indicated in length in km)

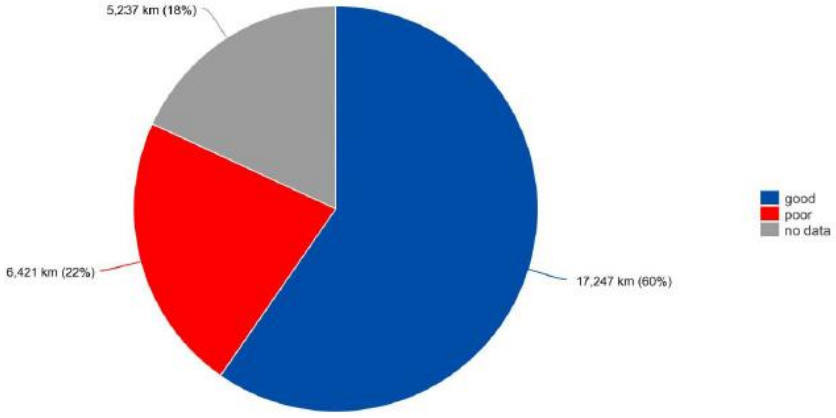
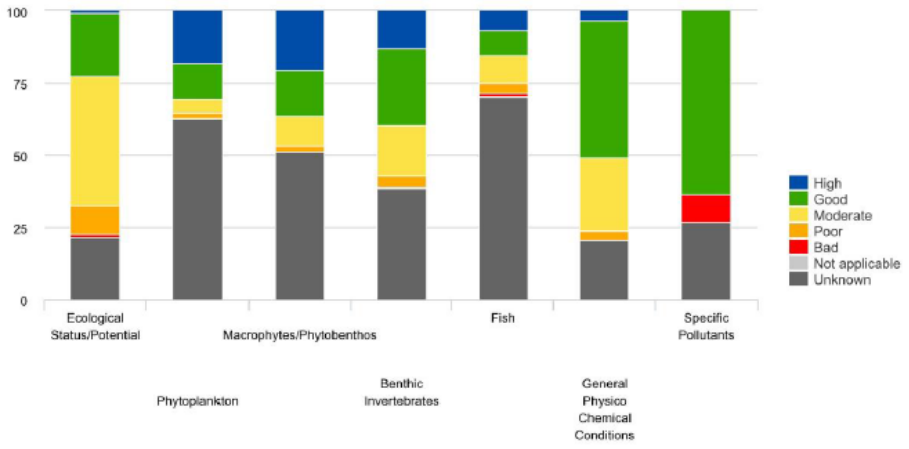


Figure 32: Ecological status: classification of biological quality elements and physico-chemical conditions (indicated as % of the total length)[19]



Draft DRBM Plan 2015 – some examples

Inter-sectorial cooperation

- Inter-linkage River Basin Management – **Flood Risk Management**
- Inter-linkage River Basin Management and the **Marine Environment**
- Inter-linkage River Basin Management and **Nature Protection**

- **Sturgeons** in the Danube River Basin District

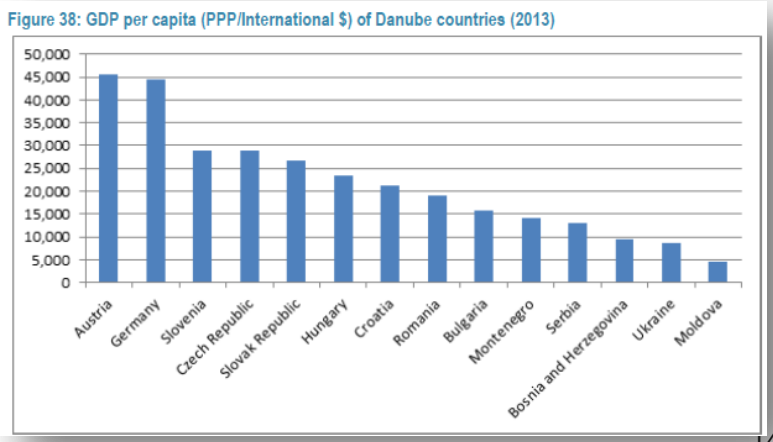
- **Inland navigation** and the environment
- Sustainable **hydropower**

- Adaptation to **climate change**
- **Agriculture** – future task

Draft DRBM Plan 2015 – some examples

Economic analysis

- General **socio-economic** indicators (national GDP, GDP per capita)
- Characteristics of **water services** and **water uses** (water supply and sewerage figures, economic importance of activities)
- **Cost recovery** approaches for water services (who pays, how much and what for)
- Projection **trends in key economic indicators** and drivers up to 2021 (population, economic growth)
- Economic **assessment of measures** (CEA for the basin – future task)



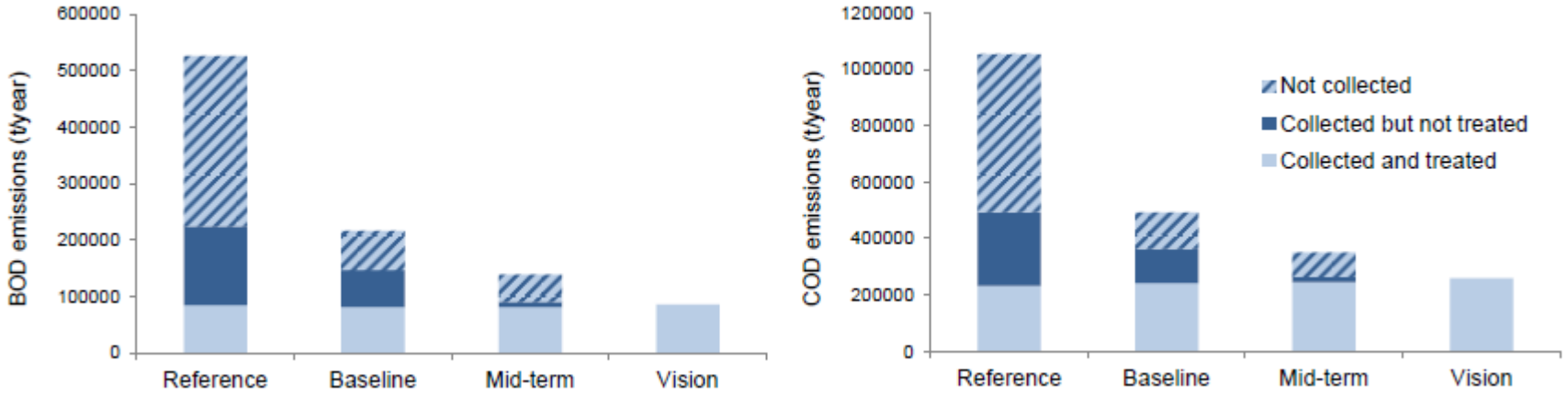
Draft DRBM Plan 2015 – some examples

JPM – Organic pollution

- Investments in sewer systems and urban wastewater treatment (UWWTD)
- Reduction of pollution from industrial sources (BAT)

➔ Reduction scenarios for organic pollution

Figure 39: BOD and COD emissions via urban waste water according to future scenarios



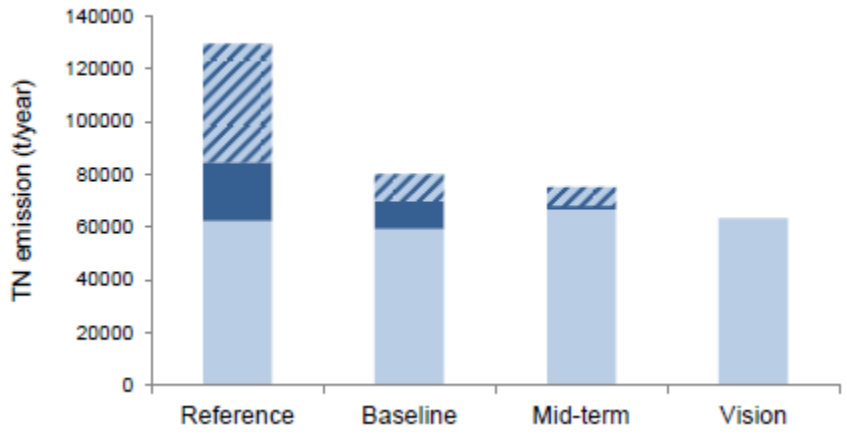
Draft DRBM Plan 2015 – some examples

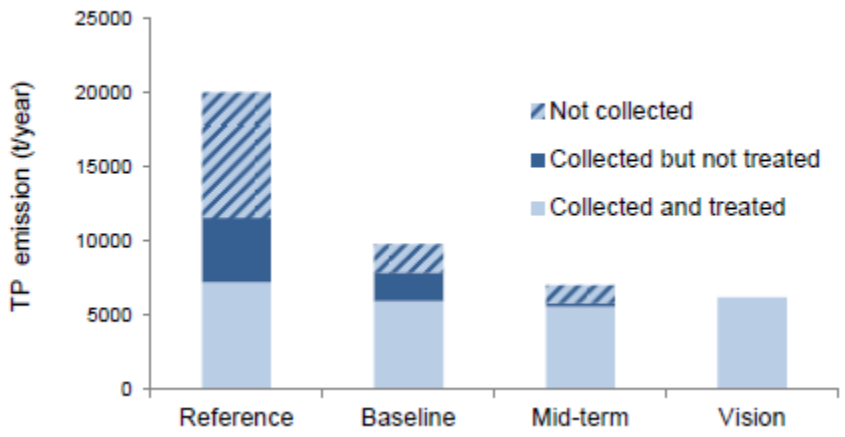
JPM – Nutrient pollution

- Investments in sewer systems and urban wastewater treatment
- Reduction of pollution from industrial sources
- Agricultural measures (Nitrates Directive, CAP, best practices)
- Phosphate-free detergents (Detergents Regulation)

➔ Reduction scenarios for nitrates and phosphates

Figure 40: TN and TP emissions via urban waste water according to future scenarios





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JPM – Hazardous substances

- Closing knowledge gaps on the hazardous substances
- Phasing out/reduce hazardous substances (EQS Directive, REACH Regulation)
- Further reduction of the point source emissions as described for organic pollution
- Further reduction of diffuse pollution from agriculture
- Minimisation of the risk of accidental pollution

Draft DRBM Plan 2015 – some examples

JPM – HYMO alterations

- Construction of 100+ fish migration aids
- Improvement of river morphology (river bed, riparian zones)
- Reconnection of 15,000+ ha of wetlands/floodplains
- Improvement of impoundments, ensuring ecological flows, addressing hydropeaking
- Sustainability of future infrastructure projects (i.e. flood protection measures, hydropower, inland navigation), no status deterioration

Draft DRBM Plan 2015 – some examples

Financing the JPM

Table 42: Overview SWMIs, measures and potential funding sources

Type of pressure	Measures	Possible financing source/program (EU)	Possible financing source/program (non-EU)
Organic Pollution	UWWTP	ERDF, CF	ENI, IPA II
	Industrial point sources (direct discharges)	ERDF, CF, ESF (capacity building)	ENI, IPA II
	Animal feeding/breeding lots	EAFRD	ENI, IPA II
Nutrient Pollution	Diffuse sources: agriculture	ERDF, EAFRD, LIFE, ESF (capacity building)	ENI, IPA II
	Diffuse sources: atmospheric deposition	EAFRD (concerning agricultural atmospheric emissions)	ENI, IPA II
	Diffuse sources: urban run-off	CF, potentially LIFE	Potentially LIFE, ENI, IPA II
	UWWTP	ERDF, CF	ENI, IPA II
	Industrial point sources (direct discharges)	ERDF, CF, ESF (capacity building)	ENI, IPA II
	Animal feeding/breeding lots	EAFRD	ENI, IPA II
Hazardous Substances Pollution	Industrial point sources (direct discharges)	ERDF, CF, ESF (capacity building)	ENI, IPA II
	UWWTP	ERDF, CF	ENI, IPA II
	Diffuse sources: urban run-off	ERDF (integrated sustainable urban development measures), CF, potentially LIFE	Potentially LIFE, ENI, IPA II
	Diffuse sources: agriculture	EAFRD, LIFE, ESF (capacity building)	LIFE, ENI, IPA II
	Diffuses sources: landfills, mining sites etc.	Possibly LIFE	Possibly LIFE, ENI, IPA II
Hydromorphological Alterations	Interruption of river continuity and morphological alterations	CF, LIFE	LIFE
	Reconnection of wetlands/floodplains	ERDF, CF (ecosystem-based measures regarding CC adaptation), LIFE, possibly EAFRD (Art. 30 NATURA2000/WFD payments)	LIFE, ENI, IPA II
	Hydrological alterations (quantity and conditions of flow)	CF, LIFE	LIFE, ENI, IPA II

- Overview main funding sources for different measures
- EU (ERDF, CF, RD, LIFE) and non EU (ENI, IPAII, LIFE) Member States
- WB, GEF, EIB, EBRD, HORIZON 2020
- More detailed information in Annex
- Link to EU Danube Strategy (**effective use** of funds, project development, facilitating direct financing, funding through Operative Programmes)

DRAFT DRBM Plan – Update 2015
35 Thematic Maps, 15 Annexes

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5 Urban Wastewater
6 Main Industrial Fac
7 Nutrient Pollution f
Nitrogen 2009-2012
8 Nutrient Pollution f
Phosphorus 2009-20
9 Alteration of River
10 Alteration of Rive
11 Wetlands / Flood
12 Hydrological Alte
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15 Future Infrastruct
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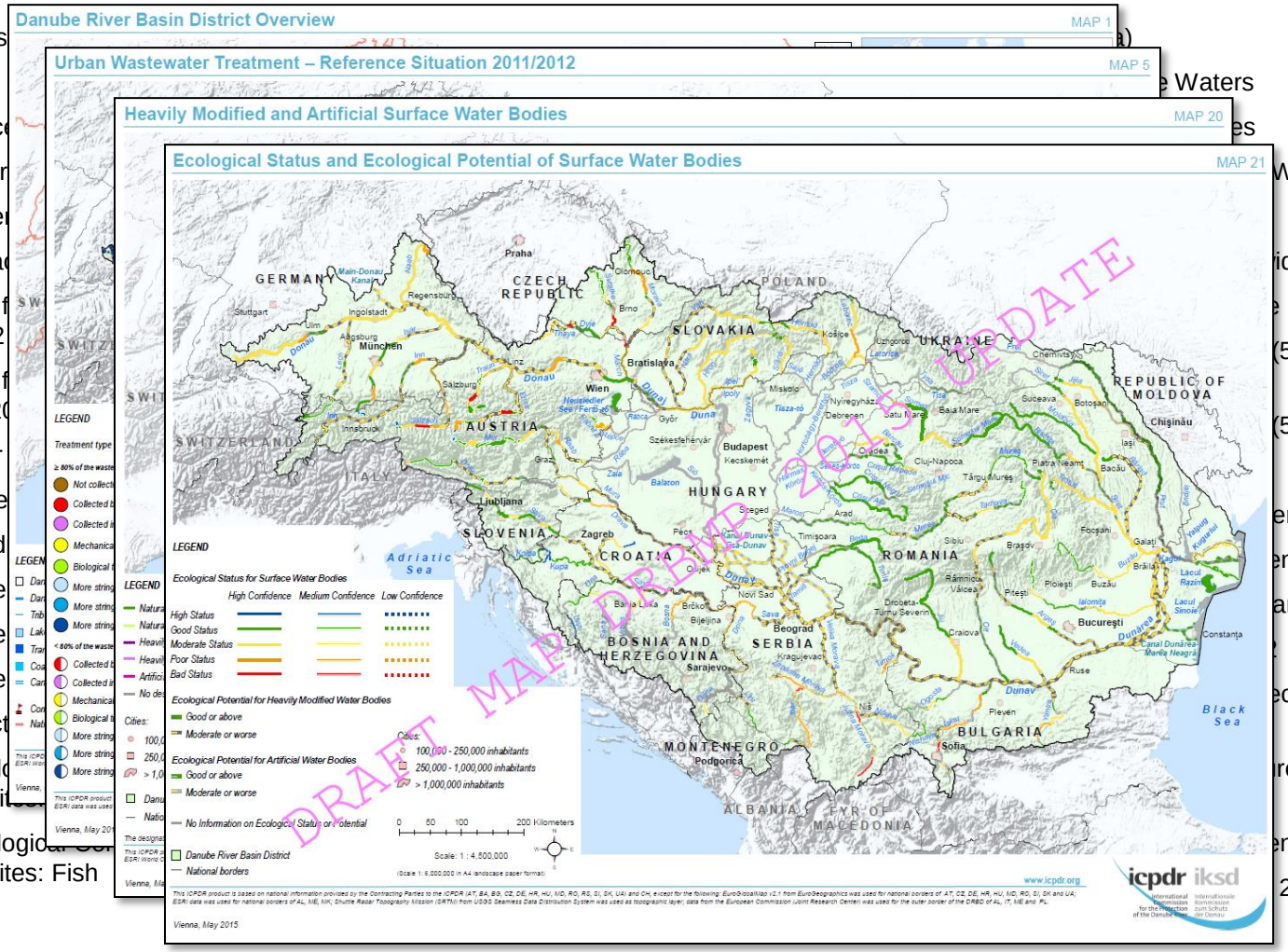
Species on JDS3 Sites: Fish



DRBM Plan – Update 2015

Public Consultation on management plans

4 sets of activities:

- collection of comments directly given*
- stakeholder consultation workshop, 2-3 July (Zagreb)**
- social media campaign via GWP (watch our video!)
- online questionnaires***

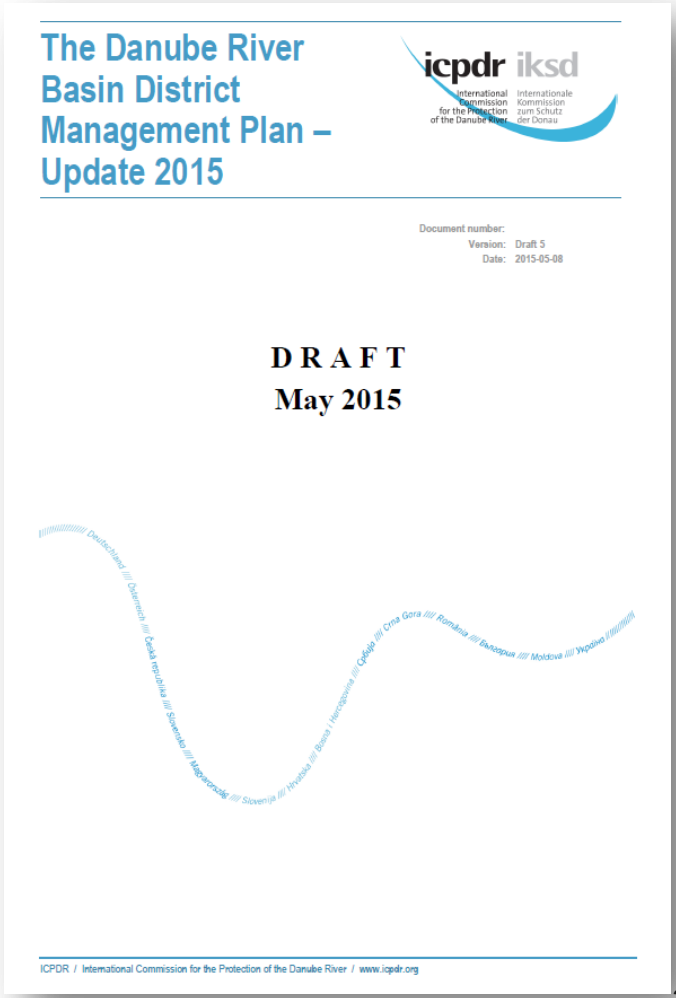
*) See: http://icpdr.org/main/draftplans-2015, deadline 22 July

**) See: http://icpdr.org/main/activities-projects/danubevoice, registration still possible!

***) See: http://www.icpdr.org/main/danube-management-plans-have-say

DRBM Plan – Update 2015
Next steps

- **2-3 June 2015**: **Updated DRAFT DRBMP 2015 adopted** at 13th Standing Working Group Meeting
- **Intensified public consultation** process – comments until 22 July 2015
- **2-3 July 2015**: Discussion at **Stakeholder Consultation Workshop** (Zagreb) together with draft Danube Flood Risk Management Plan
- **Autumn 2015: Update of Plan**, including data update and incorporation of comments
- **December 2015**: **Finalisation** and adoption of DRBMP 2015 at 18th Ordinary Meeting
- **9 February 2016**: **Endorsement** of DRBMP 2015 at Danube Ministerial Conference



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Thank you for your kind attention!

For more information please consult the ICPDR website

http://www.icpdr.org

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Iron Gates Project

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Preparatory study – Sturgeon behaviour at the Iron Gates dam

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Monitoring of sturgeon behaviour downstream of the dam (tag&track via telemetry)

Financed by European Investment Bank (Nov. 2014 – Nov. 2015)

Partners: Danube Delta National Institute Tulcea (RO), Institute for Multidisciplinary Research Belgrade (RS), Natural Museum of Natural History Sofia (BG), NINA Trondheim (NO)

Results to be considered for the future Iron Gates feasibility study

Resolutions Tisza

The Standing Working Group

a) takes note on the steps achieved in the process of the development of the joint document of the updated Tisza Analysis Report and updated ITRB Management Plan;

b) takes note of the draft Tisza Project Proposal Concept and asks the Tisza Group to develop a project proposal from the funds allocated via ICPDR Technical Assistance to also support the preparation of the updated ITRB Management Plan in coordination with the ICPDR Expert Groups.