Stakeholder Seminar: European funding opportunities in the water sector

19-20 November 2015, Budapest, Hungary



EU Water Framework Directive and EU Floods Directive -Bestschund III Osterreich III Ceská republika III Slovensuo III Musesaoosses III Slovens Programmes of Measures 2015-2021 Lore Managem Plan 201 Plan 201 Descrete Moldova III Verpaina **The Danube River Basin Management** Mr. Raimund MAIR Technical Expert River Basin Management

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Danube River Protection Convention

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of the Danube River der Donau

signed 29 June 1994, Sofia (Bulgaria)



Floods Directive on basin-wide level



EU Water Framework Directive Step-wise implementation



- 2000 WFD entered into force
- 2003 Legal transposition into national legislation
- 2004 Characterisation and analysis on pressures, impacts and water uses (1st Analysis Report)
- 2006 Establishment of monitoring programs
- 2008 Draft 1st River Basin Management Plan and launch of public consultation
- 2009 Finalisation 1st River Basin Managment Plan incl. Program of Measures
- 2012 Report on Implementation of Program of Measures
- 2013 Update Analysis Report
- 2014 Draft 2nd River Basin Management Plan and launch of public consultation
- 2015 Finalisation 2nd River Basin Management Plan incl. Program of Measures
- 2021 Finalisation 3rd River Basin Management Plan incl. Program of Measures

Last deadline for achievement of WFD objective "good status"

Danube River Basin Management Plan 2015 - 2021

The Danube River Basin District Management Plan – Update 2015



Part A – Basin-wide overview

Document number: Version: FINAL Date: 2015-11-17 WFD planning period 2015 – 2021

6 months public consultation

Includes lates pressures assessment

Includes latest monitoring data

Joint Program of Measures 2015-2021

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Kommission

der Donau

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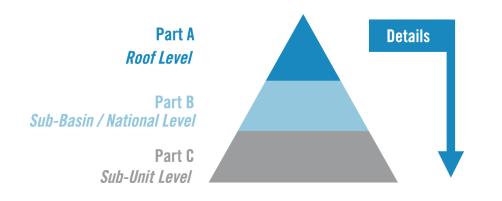
- To be adopted by ICPDR on 1-2
 December 2015
- To be endorsed at ICPDR Ministerial Conference on 9 February 2016

Coordination mechanisms

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WFD River Basin Management Planning is based on three levels of coordination

Part A International, basin-wide level - the roof level (Danube)

- Part B National level and/or the internationally coordinated subbasin level for selected sub-basins (e.g. Sava and Tisza)
- **Part C** Sub-unit level, defined as management units in the national territory.

The information increases in detail from Part A to Parts B and C.

Danube River Basin Significant Water Management Issues - "the key pressures"

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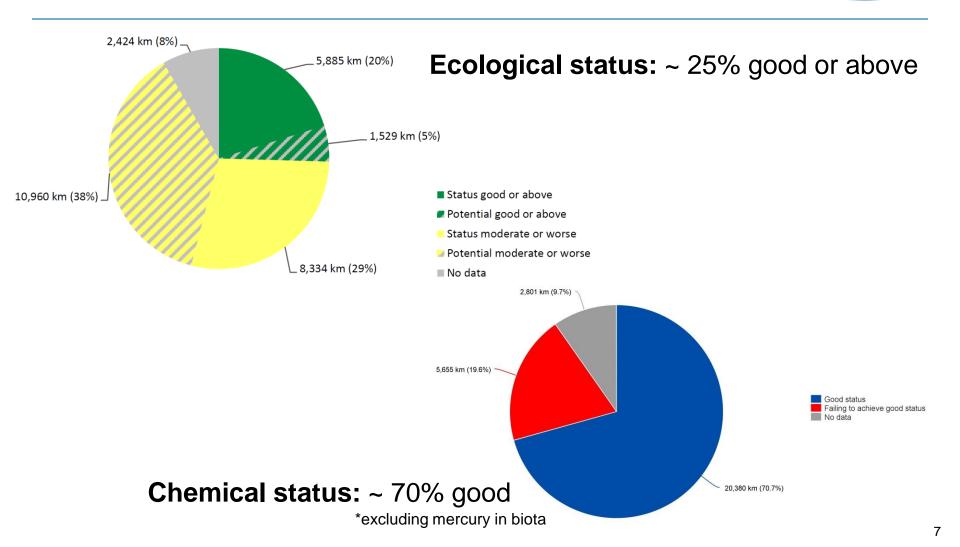
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- Priorities for actions defined via results Analysis Report (pressures assessment) and public involvement
- Re-discussed every 6 years (2 years before deadline for next River Basin Management Plan)

Monitoring Results Ecological & Chemical Status



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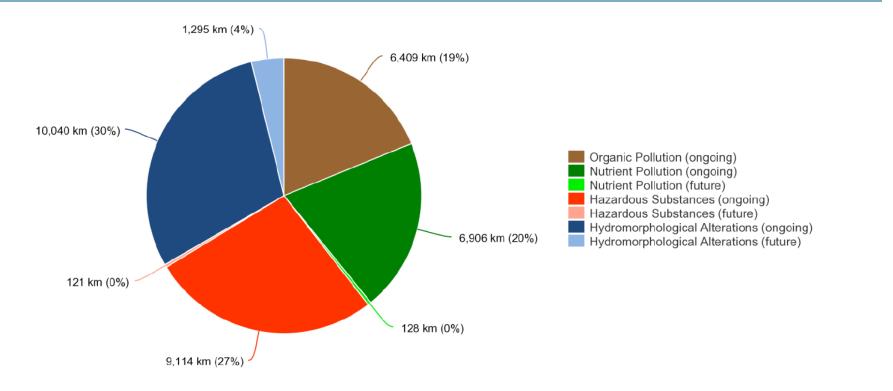
Commission

Risk assessment Main reasons for risk to fail achieving "good status"

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Internationale Kommission



Organic, nutrients, hazardous substances pollution, hydromorph. alterations

- Approx. equal share of reasons for risk to fail "good status"
- → Range of measures in need to be implemented

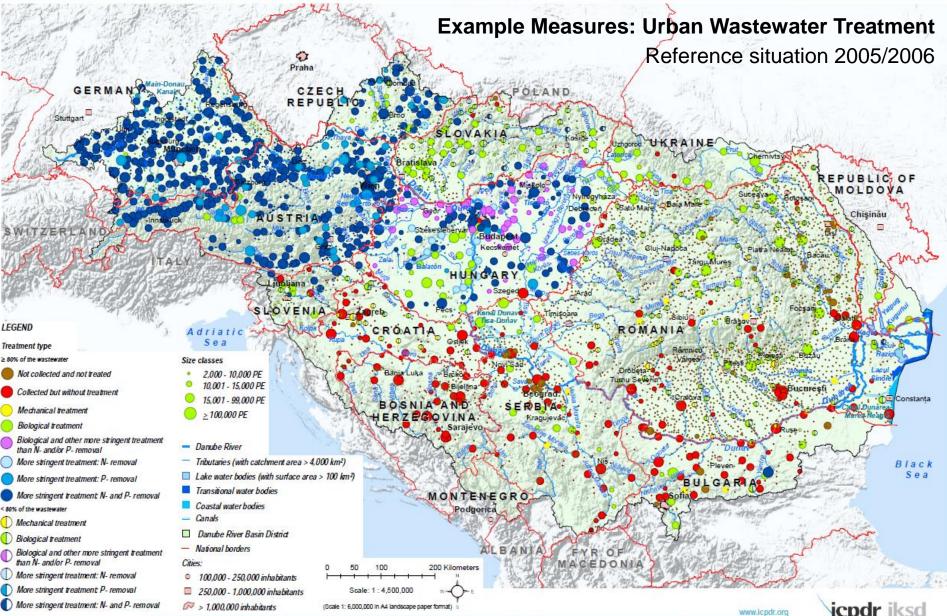
Example Urban Wastewater Treatment

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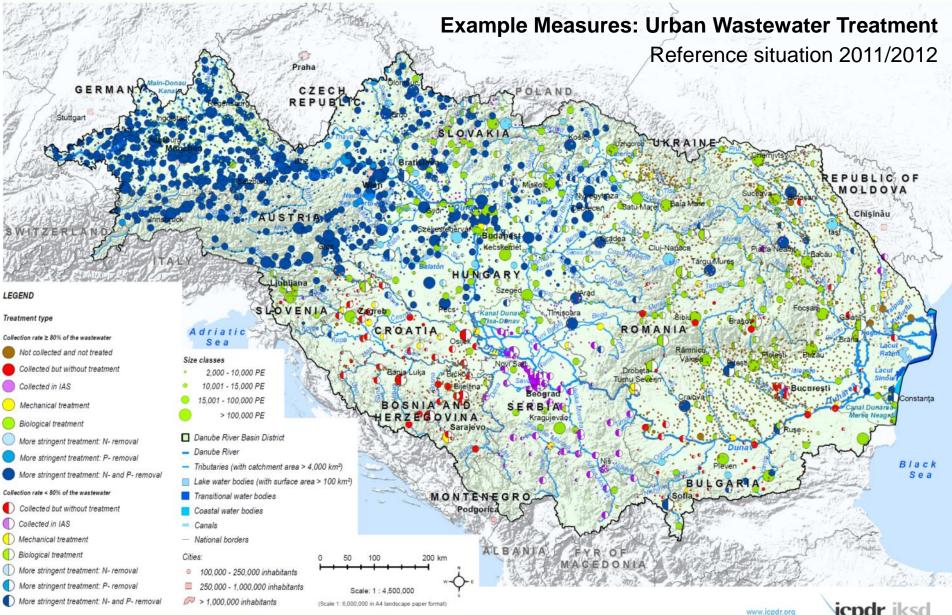
Urban Wastewater Discharges – Reference Situation - UWWT 2005/2006



This ICPDR product is based on national information provided by the Contracting Parties to the ICPDR (AT, BA, BG, CZ, DE, HR, HU, MD, RO, RS, SI, SK, UA) and CH, except for the following: EuroGiobalklap v2.1 from EuroGeographics was used for national borders of AL, ME, MK; Shuttle Radar Topography Mission (SRTM) from USSS Seamless Data Distribution System was used as topographic layer; data from the European Commission (Joint Research Center) was used for the outer border of the ORD of AL, IT, ME and PL.

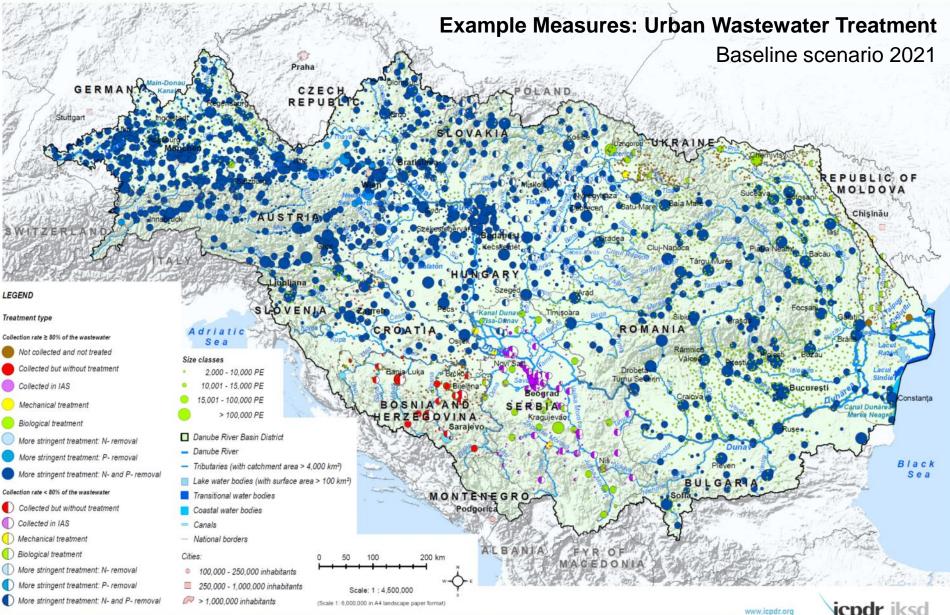
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Urban Wastewater Treatment – Reference Situation 2011/2012



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Status of Urban Wastewater Treatment – BaselineScenario 2021



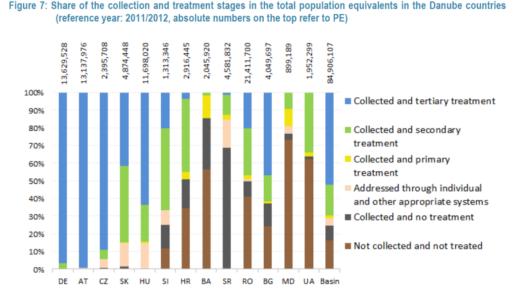
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Progress and remaining pressures Example wastewater treatment

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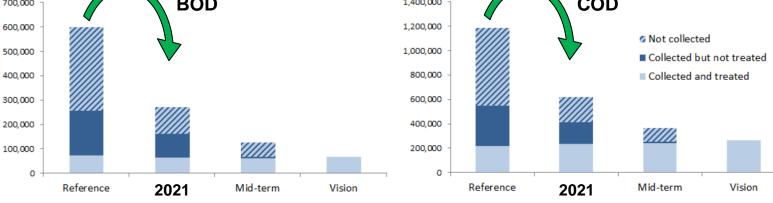


- Significant progress in emission reduction
 - Almost 900 agglomerations with improved UWW infrastructure by 2015 (construction, extension and upgrade)
 - Additional 1.000 to come half under construction
- Further efforts to be taken for full UWWT Directive implementation

Example Joint Program of Measures 2015 - 2021

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- Further investments in sewer systems and urban wastewater treatment (UWWTD)
- Reduction of pollution from industrial sources (BAT)
- Expected reduction of organic emmissions by half and further reduction of nutrient emissions





Example Agriculture





Agriculture

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(EU Nitrates Directive: Application Action Programs) of the Danube River der Donau

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Agriculture

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Expected improvements 2021 Nutrient emissions via point sources and diffuse pathways

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Expected emission reduction: UWWTP: 10% (TN) and 17% (TP), agriculture: 6% and 4%

Example Hydromorphology

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Natural







Flood protection





Hydropower



Driver/Pressure



HYMO alteration



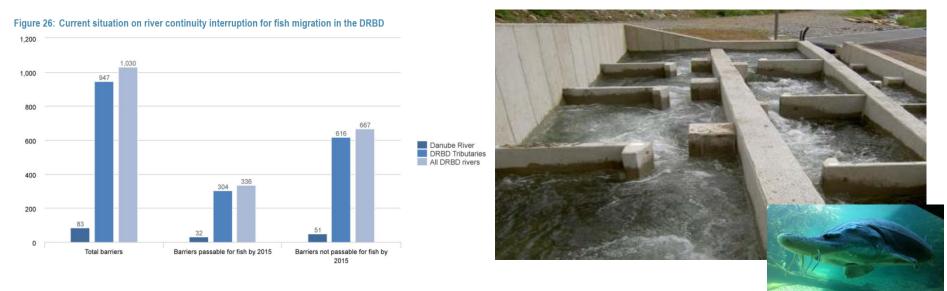




Example hydromorphological alterations Fish migration aids

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- Progress made: 120+ fish migration aids completed in 2015
- Construction of additional 140+ fish migration aids until 2021
- Securing funding for full Iron Gates feasibility study

Further measures to improve river hydromorphology

• Improvement of **river morphology** (river bed, riparian zones)

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- 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, inland navigation, hydropower)



- European Regional Development Fund (ERDF)
- European Social Fund (ESF)
- Cohesion Fund (CF)
- European Maritime and Fisheries Fund (EMFF)
- European Agricultural Fund for Rural Development (EAFRD)

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- LIFE
- INTERREG V/European Territorial Cooperation (ETC)
- European Neighbourhood Instrument (ENI)
- Instrument for Pre-Accession Assistance (IPA II)
- + National funds, Horizon 2020, WB, GEF, EIB, EBRD, ...

Strategic projects Of key relevance for ICPDR and PA4/5

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Danube Sediment Project

(on sediment quantity! – current DTP call 2015)

PROJECT

Tisza Project (current DTP call 2015)









Danube Floodplain Project

(expected for upcoming DTP call 2016)



Table 44: 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



Type of pressure	Measures	Possible financing source/program (EU)	Possible financing source/program (non-EU)
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
Hydromorphologi cal 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) (see below for more details)	LIFE, ENI, IPA II
	Hydrological alterations (quantity and conditions of flow)	CF, LIFE	LIFE, ENI, IPA II

Guadeloupe Guvane Martinique Mayotte Réunion Acores Madeira REGIOgis

Canaria

Example: Structural Funds eligibility

Structural Funds (ERDF and ESF) eligibility 2014-2020

Category

Less developed regions (GDP/head < 75% of EU-27 average)

Transition regions (GDP/head between >= 75% and < 90% of EU-27 average)

More developed regions (GDP/head >= 90% of EU-27 average)

Conclusions/Remarks

- The Danube River Basin Management Plan 2015
 - Milestone for EU Water Framework Directive implementation
 - Elaborated (and agreed) by the Danube countries
 - Sets water management priorities for the Danube basin-wide level
 - Outlines key measures to be implemented until 2021
- Range of measures significant need for financing
 - → How to best utilise existing funding instruments?
 - How to strengthen capacities for utilisation of existing funds?
 - → How to ensure funding of measures also in Non-EU Member States?

How can these efforts be further supported?



Thank you very much!

For more information please consult the ICPDR website http://www.icpdr.org

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