

**Reporting on global SDG indicator 6.5.2**  
**TEMPLATE of the second cycle for reporting**

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**Content of the template**

The template is divided into four parts:

- Section I - Calculation of SDG indicator 6.5.2
- Section II - Information on each transboundary basin or group of basins
- Section III - General information on transboundary water management at the national level
- Section IV - Final questions

Country name: HUNGARY

## I. Calculation of Sustainable Development Goal indicator 6.5.2

### *Methodology*

1. Using the information gathered in section II, the information gathered in this section allows for the calculation of Sustainable Development Goal global indicator 6.5.2, which is defined as the proportion of transboundary basin area with an operational arrangement for water cooperation.
2. The step-by-step monitoring methodology for indicator 6.5.2, developed by UNECE and UNESCO in the framework of UN-Water, should be referred to for details on the necessary data, the definitions and the calculation.<sup>a</sup>
3. The value of the indicator at the national level is derived by adding up the surface area in a country of those transboundary basins (river and lake basins and aquifers) that are covered by an operational arrangement and dividing the area obtained by the aggregate total area in a country of all transboundary basins (both river and lake basins, and aquifers).
4. Transboundary basins are basins of transboundary waters, that is, of any surface waters (notably rivers, lakes) or groundwaters which mark, cross or are located on boundaries between by two or more States. For the purpose of the calculation of this indicator, for a transboundary river or lake, the basin area is determined by the extent of its catchment. For groundwater, the area to be considered is the extent of the aquifer.
5. An “arrangement for water cooperation” is a bilateral or multilateral treaty, convention, agreement or other formal arrangement among riparian countries that provides a framework for cooperation on transboundary water management.
6. For an arrangement to be considered “operational” all the following criteria need to be in place in practice:
  - (a) There is a joint body, joint mechanism or commission (e.g., a river basin organization) for transboundary cooperation (criterion 1);
  - (b) There are regular (at least once per year) formal communications between riparian countries in form of meetings (either at the political or technical level) (criterion 2);
  - (c) Joint objectives, a common strategy, a joint or coordinated management plan, or an action plan have been agreed upon by the riparian countries (criterion 3);
  - (d) There is a regular (at least once per year) exchange of data and information (criterion 4).

### *Calculation of indicator 6.5.2*

7. Please list in the tables below the transboundary basins (rivers and lakes and aquifers) in your country’s territory and provide the following information for each of them:
  - (a) The country/ies with which the basin is shared;
  - (b) The surface area of the basin (the catchment of rivers or lakes and the aquifer in the case of groundwater) within the territory of your country (in square kilometres (km<sup>2</sup>));

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<sup>a</sup> Available from the UN-Water website: <https://www.sdg6monitoring.org/indicators/target-65/indicators652/> (updated version “2020”).

(c) Whether a map and/or a geographical information system (GIS) shapefile of the basin has been provided;

(d) Whether there is an arrangement in force for the basin;

(e) The verification of each of the four criteria to assess operationality;

(f) The surface area of the basin within the territory of your country which is covered by a cooperation arrangement that is operational according to the above criteria.

8. In case an operational arrangement is in place only for a sub-basin or a portion of a basin, please list this sub-basin just after the transboundary basin it is part of. In case there is an operational arrangement for the whole basin, do not list sub-basins in the table below.

Table 1  
**Transboundary river or lake basin (please add rows as needed)**

<i>Name of transboundary river or lake basin/sub-basin</i>	<i>It is a basin or a sub-basin? <sup>b</sup></i>	<i>Countries shared with</i>	<i>Surface area of the basin/sub-basin (in km<sup>2</sup>) within the territory of the country</i>	<i>Map and/or GIS shapefile provided (yes/no)</i>	<i>Covered by an arrangement (entirely, partly, no) (Ref. to questions in sect. II)</i>	<i>Criterion 1 applied (yes/no) (Ref. to questions in sect. II)</i>	<i>Criterion 2 applied (yes/no) (Ref. to questions in sect. II)</i>	<i>Criterion 3 applied (yes/no) (Ref. to questions in sect. II)</i>	<i>Criterion 4 applied (yes/no) (Ref. to questions in sect. II)</i>	<i>Surface area of the basin/sub-basin (in km<sup>2</sup>) covered by an operational arrangement within the territory of the country</i>
Danube	basin	Germany, Austria, Czech Republic, Slovakia, Slovenia, Croatia, Bosnia-Herzegovina, Serbia, Montenegro, Romania, Bulgaria, Moldova, Ukraine	93 030	yes Related maps are available on www.icpdr.org	entirely	yes	yes	yes	yes	93 030
<b>(A)</b> Total surface area of transboundary basins/sub-basins of rivers and lakes covered by operational arrangements within the territory of the country (in km <sup>2</sup> ) (do not double count sub-basins)										93 030
<b>(B)</b> Total surface area of transboundary basins of rivers and lakes within the territory of the country (in km <sup>2</sup> )			93 030							

<sup>b</sup> List sub-basins after the basin they belong to.

<i>Name of transboundary river or lake basin/sub-basin</i>	<i>It is a basin or a sub-basin? <sup>b</sup></i>	<i>Countries shared with</i>	<i>Surface area of the basin/sub-basin (in km<sup>2</sup>) within the territory of the country</i>	<i>Map and/or GIS shapefile provided (yes/no)</i>	<i>Covered by an arrangement (entirely, partly, no) (Ref. to questions in sect. II)</i>	<i>Criterion 1 applied (yes/no) (Ref. to questions in sect. II)</i>	<i>Criterion 2 applied (yes/no) (Ref. to questions in sect. II)</i>	<i>Criterion 3 applied (yes/no) (Ref. to questions in sect. II)</i>	<i>Criterion 4 applied (yes/no) (Ref. to questions in sect. II)</i>	<i>Surface area of the basin/sub-basin (in km<sup>2</sup>) covered by an operational arrangement within the territory of the country</i>
<b>(do not double count sub-basins)</b>										

Table 2

**Transboundary aquifers (please add rows as needed)**

Name of the transboundary aquifer	Countries shared with	Surface area of the aquifer <sup>c</sup> (in km <sup>2</sup> ) within the territory of the country	Map and/ or GIS shapefile provided (yes/no)	Covered by an aquifer specific arrangement (entirely, partly, no) (Ref. to questions in sect. II)	Covered within an arrangement not specific to the aquifer <sup>d</sup> (entirely, partly, no) (Ref. to questions in sect. II)	Criterion 1 applied (yes/no) (Ref. to questions in sect. II)	Criterion 2 applied (yes/no) (Ref. to questions in sect. II)	Criterion 3 applied (yes/no) (Ref. to questions in sect. II)	Criterion 4 applied (yes/no) (Ref. to questions in sect. II)	Surface area of the aquifer (in km <sup>2</sup> ) covered by an operational arrangement within the territory of the country
Maros	Romania	4 989	y	no	entirely	yes	yes	yes	yes	4 989
Szamos	Romania	1 034	Related maps are available on www.icpdr.org	no	entirely	yes	yes	yes	yes	1 034
Duna-Tisza köze- dél	Romania, Serbia	7 098		no	entirely	yes	yes	y	yes	7 098
Szigetköz, Hanság - Rábca	Slovakia	1 152		no	entirely	yes	yes	y	yes	1 152
Bodrog	Slovakia	750		no	entirely	yes	yes	y	yes	750
Aggtelek-hg.	Slovakia	493		no	entirely	yes	yes	y	yes	493
Dunántúli-khg. - észak	Slovakia	3 178		no	entirely	yes	yes	yes	yes	3 178
Ipoly	Slovakia	146		no	entirely	yes	yes	yes	yes	146
XX XX		YY								
<b>(C) Sub-total: surface area of transboundary aquifers covered by operational</b>										18 840

<sup>c</sup> For a transboundary aquifer, the extent is derived from the aquifer system delineation which is commonly done relying on information of the subsurface (notably the extent of geological formations). As a general rule, the delineation of aquifer systems is based on the delineation of the extent of the hydraulically connected water-bearing geological formations. Aquifer systems are three-dimensional objects and the aquifer area taken into account is the projection on the land surface of the system. Ideally, when different aquifer systems not hydraulically connected are vertically superposed, the different relevant projected areas are to be considered separately, unless the different aquifer systems are managed conjunctively.

<sup>d</sup> In the text of the agreement or arrangement or in the practice.

Name of the transboundary aquifer	Countries shared with	Surface area of the aquifer <sup>c</sup> (in km <sup>2</sup> ) within the territory of the country	Map and/or GIS shapefile provided (yes/no)	Covered by an aquifer specific arrangement (entirely, partly, no) (Ref. to questions in sect. II)	Covered within an arrangement not specific to the aquifer <sup>d</sup> (entirely, partly, no) (Ref. to questions in sect. II)	Criterion 1 applied (yes/no) (Ref. to questions in sect. II)	Criterion 2 applied (yes/no) (Ref. to questions in sect. II)	Criterion 3 applied (yes/no) (Ref. to questions in sect. II)	Criterion 4 applied (yes/no) (Ref. to questions in sect. II)	Surface area of the aquifer (in km <sup>2</sup> ) covered by an operational arrangement within the territory of the country	
<b>arrangements (in km<sup>2</sup>)</b>											
<b>(D) Total surface area of transboundary aquifers (in km<sup>2</sup>)</b>		18 840									

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**Indicator value for the country**

**Surface waters:**

Percentage of surface area of transboundary basins of rivers and lakes covered by an operational arrangement:

$$A/B \times 100 = 100$$

**Aquifers:**

Percentage of surface area of transboundary aquifers covered by an operational arrangement:

$$C/D \times 100 = 100$$

**Sustainable Development Goal indicator 6.5.2:**

Percentage of surface area of transboundary basins covered by an operational arrangement:

$$((A + C)/(B + D)) \times 100 = 100$$

**Spatial information**

If a map (or maps) of the transboundary surface water catchments and transboundary aquifers (i.e., “transboundary basins”) is available, please consider attaching them. Ideally, shapefiles of the basin and aquifer delineations that can be viewed in GIS should be sent.

Related maps are available on [www. icpdr.org](http://www.icpdr.org)

**Additional information**

If the respondent has comments that clarify assumptions or interpretations made for the calculation, or the level of certainty of the spatial information, please write them here:



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Does your country have transboundary agreements or arrangements for the protection and/or management of transboundary waters (i.e., rivers, lakes or groundwater), whether bilateral or multilateral?

Yes /No

*If yes, list the bilateral and multilateral agreements or arrangements (listing for each of the countries concerned):*

Convention on Co-operation for the Protection and Sustainable use of the Danube River (Danube River Protection Convention)

Egyezmény a Magyar Népköztársaság és az Osztrák Népköztársaság között a határvidék vízgazdálkodási kérdéseinek szabályozása tárgyában, aláírva 1956. április 09. Bécs (Agreement on the regulation of water management issues in the borderland between Hungary and Austria signed 09 April 1956. Vienna)

Egyezmény a Magyar Népköztársaság Kormánya és a Csehszlovák Szocialista Köztársaság Kormánya között a határvizek vízgazdálkodási kérdéseinek szabályozásáról aláírva Budapest, 1976. május 31.(Agreement between the Government of the Hungarian People's Republic and the Government of the Czechoslovak Socialist Republic on the regulation of water management of the border waters signed 31 May 1976. Budapest)

A Magyar Köztársaság Kormánya és Ukrajna Kormánya között Budapesten, 1997. november 11-én aláírt, a határvizekkel kapcsolatos vízgazdálkodási kérdésekről szóló Egyezmény (Convention between the Government of the Republic of Hungary and the Government of Ukraine on Transboundary Water Issues, signed in Budapest, on 11 November 1997 )

Magyar Köztársaság Kormánya és Románia Kormánya között a határvizek védelme és fenntartható hasznosítása céljából folytatandó együttműködésről Budapesten, 2003. szeptember 15-én aláírt, és 2004. május 17-én hatályba lépett Egyezmény. (Agreement between the Government of the Republic of Hungary and the Government of Romania on the Protection and Sustainable Use of Transboundary Waters, signed in Budapest, on 15 September 2003 (entered into force on 17 May 2004))

Egyezmény Magyar Köztársaság Kormánya és a Horvát Köztársaság Kormánya között a vízgazdálkodási együttműködés kérdéseiről (Pécs, 1994. július 10.)(Agreement between the governments of the Hungarian Republic and the Republic of Croatia on water management, 10 July 1994, Pécs)

Egyezmény Magyarország Kormánya és a Szerb Köztársaság Kormánya között a fenntartható vízgazdálkodás terén a határvizeken és a közös érdekű vízgyűjtőkön történő együttműködésről 2019. április 15 (hatályos 2020. április 24.) (Convention between the Government of Hungary and the Government of the Republic of Serbia on cooperation in the field of sustainable water management in transboundary waters and river basins of common interest, signed on 15 April 2019 (entered into force on 24 April 2020)

A Magyar Köztársaság Kormánya és a Szlovén Köztársaság Kormánya között a vízgazdálkodási kérdések tárgyában aláírt Egyezmény Ljubljanában, 1994. október 21 (Agreement on Water Management Cooperation between the Government of Hungary and the Government of the Slovenian Republic, 21. October 1994. Ljubljana)

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**II. Questions for each transboundary basin, sub-basin, part of a basin, or group of basins (river, lake or aquifer)**

Please complete this second section for each transboundary basin (river or lake basin, or aquifer), sub-basin, part of a basin or a group of basins covered by the same agreement or arrangement where conditions are similar.<sup>1</sup> In some instances, you may provide information on both a basin and one or more of its sub-basins or parts thereof, for example, where you have agreements<sup>2</sup> or arrangements on both the basin and its sub-basin. You may coordinate your responses with other States with which your country shares transboundary waters, or even prepare a joint report. General information on transboundary water management at the national level should be provided in section III and not repeated here.

Please reproduce this whole section with its questions for each transboundary basin, sub-basin, part of a basin or group of basins for which you will provide a reply.

**Name of the transboundary basin,-sub-basin, part of a basin or group of basins:**

**Danube river basin**

List of the riparian States: [Germany, Austria, Czech Republic, Slovakia, Slovenia, Hungary, Croatia, Bosnia-Herzegovina, Serbia, Montenegro, Romania, Bulgaria, Moldova, Ukraine]

**In the case of an aquifer, what is the nature of the aquifer and its relation with the river or lake basin:**

- Unconfined aquifer connected to a river or lake
- Unconfined aquifer with no or limited relation with surface water
- Confined aquifer connected to surface water
- Confined aquifer with no or limited relation with surface water
- Other
- Please describe: Transboundary aquifers
- Unknown

**Percentage of your country's territory within the basin, sub-basin, part of a basin or group of basins: 11,60 %**

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin, sub-basin, part of a basin or group of basins?

- One or more agreements or arrangements exist and are in force
- Agreement or arrangement developed but not in force
- Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement(s) or arrangement(s)*

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<sup>1</sup> In principle, section II should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

<sup>2</sup> In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of arrangements, such as memorandums of understanding.

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Convention on Co-operation for the Protection and Sustainable use of the Danube River (Danube River Protection Convention)<sup>3</sup>

Agreement or arrangement is under development

No agreement or arrangement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body or mechanism for the transboundary basin, sub-basin, part of a basin or group of basins then jump to question 4; if there is no agreement or arrangement, but a joint body or mechanism then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, sub-basin, part of a basin or group of basins.**

2. (a) Does this agreement or arrangement specify the area subject to cooperation?

Yes /No

If yes, does it cover the entire basin or group of basins and all riparian States?

Yes /No

Additional explanations?

Countries less than 2.000 km<sup>2</sup> are not signatories of the agreement

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Additional explanations? [fill in]

Which States (including your own) are bound by the agreement or arrangement?  
(Please list):

Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Germany, Hungary, Moldova, Montenegro, Romania, Serbia, Slovakia, Slovenia, Ukraine

(b) If the agreement or arrangement relates to a river or lake basin or sub-basin, does it also cover aquifers?

Yes /No

If yes, please list the aquifers covered by the agreement or arrangement:

See Annex 8 of DRBMP 2015

(<http://www.icpdr.org/flowpaper/viewer/default/files/nodes/documents/dr bmp-update2015-annexes.pdf>)

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

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<sup>3</sup> <https://www.icpdr.org/main/sites/default/files/DRPC%20English%20ver.pdf>

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Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

Agriculture

Transport (e.g., navigation)

Households

Energy: hydropower and other energy types

Fisheries

Tourism

Nature protection

Other (*please list*): [the scope of the agreement horizontal, covering several sectors, including all activities effecting water quality, quantity and ecosystems]

(d) What topics or subjects of cooperation are included in the agreement or arrangement?

**Procedural and institutional issues**

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

**Topics of cooperation**

Joint vision and management objectives

Joint significant water management issues

Navigation (partly)

Human health

Environmental protection (ecosystem)

Water quality

Water quantity or allocation

Cooperation in addressing floods

Cooperation in addressing droughts

Climate change adaptation

**Monitoring and exchange**

Joint assessments

Data collection and exchange

Joint monitoring

Maintenance of joint pollution inventories

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Elaboration of joint water quality objectives

Common early warning and alarm procedures

Exchange of experience between riparian States

Exchange of information on planned measures

**Joint planning and management**

Development of joint regulations on specific topics

Development of international or joint river, lake or aquifer basin management or action plans

Management of shared infrastructure

Development of shared infrastructure

Other (*please list*):

Concerning navigation cooperation exists between the ICPDR and the Danube Commission<sup>4</sup> based on the Joint Statement for the Development of Inland Navigation and Environmental Protection<sup>5</sup>

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any?

Aligning implementation of agreement or arrangement with national laws, policies and programmes

Aligning implementation of agreement or arrangement with regional laws, policies and programmes

Lack of financial resources

Insufficient human capacity

Insufficient technical capacity

Tense diplomatic relations

Non-participation of certain riparian countries in the agreement

No significant difficulties

Other (*please describe*): [bilateral harmonisation and harmonisation of PoMs between countries is difficult]

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?

- ICPDR become a platform for joint and focused actions, for political decisions, for cooperation and exchange of experience, for awareness raising and for convening on agreements across sectors.

- Improved ecological and chemical quality of the Danube

- Coordinated flood management has improved

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<sup>4</sup> [http://www.danubecommission.org/index.php/de\\_DE/index](http://www.danubecommission.org/index.php/de_DE/index)

<sup>5</sup> <https://www.icpdr.org/main/activities-projects/joint-statement-navigation-environment>

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- Adoption of River Basin Management and Flood Risk Management Plans covering the entire catchment of the Danube

- Transnational Monitoring Network, an Early Warning Network,

- Strategy for adaptation to climate change,

Key to achievements are: political commitment, trust building, good cooperation at technical and political level, exchange of experience, expert group activities, coordination of the secretariat

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*):

<https://www.icpdr.org/main/sites/default/files/DRPC%20English%20ver.pdf>

3. Is your country a member of any joint body or mechanism for this agreement or arrangement?

Yes /No

*If no, why not? (please explain):* [fill in]

**Where there is a joint body or mechanism**

(a) If there is a joint body or mechanism, which kind of joint body or mechanism (*please tick one*)?

Plenipotentiaries

Bilateral commission

Basin or similar commission

Expert group meeting or meeting of national focal points

Other (*please describe*): [fill in]

(b) Does the joint body or mechanism cover the entire transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(c) Which States (including your own) are members of the joint body or mechanism? (*Please list*):

Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Germany, Hungary, Moldova, Montenegro, Romania, Serbia, Slovakia, Slovenia, Ukraine

(d) Are there any riparian States that are not members of the joint body or mechanism? (*please list*):

Countries with less than 2.000 km<sup>2</sup> are not part of the joint body: Italy, Switzerland, Poland, Albania, North Macedonia

(e) If not all riparian States are members of the joint body or mechanism how does the joint body or mechanism cooperate with them?

No cooperation

They have observer status

Other (*please describe*): In case of need for cooperation through existing bilateral commissions.

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(f) Does the joint body or mechanism have any of the following features (*please tick the ones applicable*)?

A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe): [fill in]*

A subsidiary body or bodies

*Please list (e.g., working groups on specific topics):*

- Ad-hoc strategic expert group (S EG)
- Flood protection expert group (FP EG)
- Accident prevention & control expert group (APC EG)
- Monitoring and assessment expert group (MA EG)
- o Groundwater task group (GW TG)
- Pressures and measures expert group (PM EG)
- o Nutrient task group (N TG)
- River basin management expert group (RBM EG)
- o Hydromorphology task group (HYMO TG)
- o Economics task group (ECON TG)
- Public participation expert group (PP EG)
- Information management & GIS expert group (IMGIS EG)
- ICPDR Tisza Group

Other features (*please list*): [fill in]

(g) What are the tasks and activities of this joint body or mechanism?<sup>6</sup>

Identification of pollution sources

Data collection and exchange

Joint monitoring

Maintenance of joint pollution inventories

Setting emission limits

Elaboration of joint water quality objectives

Management and prevention of flood or drought risks

Preparedness for extreme events, e.g., common early warning and alarm procedures

Surveillance and early warning of water related disease

Water allocation and/or flow regulation

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<sup>6</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

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- Policy development
  - Control of implementation
  - Exchange of experience between riparian States
  - Exchange of information on existing and planned uses of water and related installations
  - Settling of differences and conflicts
  - Consultations on planned measures
  - Exchange of information on best available technology
  - Participation in transboundary EIA
  - Development of river, lake or aquifer basin management or action plans
  - Management of shared infrastructure
  - Addressing hydromorphological alterations
  - Climate change adaptation
  - Joint communication strategy
  - Basin-wide or joint public participation and consultation of, for example, basin management plans
  - Joint resources to support transboundary cooperation
  - Capacity-building

Any other tasks (*please list*): [fill in]

(h) What are the main difficulties and challenges that your country faces with the operation of the joint body or mechanism, if any?

- Governance issues   
*Please describe, if any:*
- Unexpected planning delays   
*Please describe, if any:* [fill in]
- Lack of resources   
*Please describe, if true:* [national budget is limited]
- Lack of mechanism for implementing measures   
*Please describe, if true:* [no enforcement]
- Lack of effective measures   
*Please describe, if true:* [fill in]
- Unexpected extreme events   
*Please describe, if any:* [floods, droughts]
- Lack of information and reliable forecasts   
*Please describe, if any:* [flood forecasting]
- Others (*please list and describe, as appropriate*): [fill in]



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(i) Does the joint body or mechanism, or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet?

More than once per year

Once per year

Less than once per year

(j) What are the main achievements with regards to the joint body or mechanism?

see question 2.f above

(k) Did the joint body or mechanism ever invite a non-riparian coastal State to cooperate?

Yes /No

*If yes, please give details. If no, why not, e.g. are the relevant coastal States also riparian States and therefore already members of the joint body or mechanism?*

Danube Region Strategy, Black Sea Commission, Carpatian Convention

4. Have joint objectives, a common strategy, a joint or coordinated management plan or action plan been agreed for the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide further details:*

Danube river basin management plan Update 2015

(<https://www.icpdr.org/main/management-plans-danube-river-basin-published>)

Danube flood risk management plan 2015

(<https://www.icpdr.org/main/management-plans-danube-river-basin-published>)

Danube Declaration 2016

(<https://www.icpdr.org/main/sites/default/files/nodes/documents/danube-declaration2016.pdf>)

Joint Statement on Navigation and Environment  
(<http://www.icpdr.org/main/activities-projects/joint-statement-navigation-environment>)

Guiding Principles on Sustainable Hydropower

(<http://www.icpdr.org/main/activities-projects/hydropower>)

Strategy on Adaptation to Climate Change

(<http://www.icpdr.org/main/activities-projects/climate-change-adaptation>)

5. How is the transboundary basin, sub-basin, part of a basins or group of basins protected, including the protection of ecosystems, in the context of sustainable and rational water use?

Regulation of urbanization, deforestation, and sand and gravel extraction.

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Environmental flow norms, including consideration of levels and seasonality

Water quality protection, e.g. nitrates, pesticides, faecal coliforms, heavy metals

Water-related species and habitats protection

Other measures (*please describe*): see Danube River Basin Management Plan

6. (a) Does your country regularly exchange information and data with other riparian States in the basin, sub-basin, part of a basin or group of basins?

Yes /No

(b) If yes, how often:

More than once per year

Once per year

Less than once per year

(c) Please describe how information is exchanged (e.g. in connection with meetings of joint bodies): [fill in]

(d) If yes, on what subjects are information and data exchanged?

Environmental conditions

Research activities and application of best available techniques

Emission monitoring data

Planned measures taken to prevent, control or reduce transboundary impacts

Point source pollution sources

Diffuse pollution sources

Existing hydromorphological alterations (dams, etc.)

Flows or water levels (including groundwater levels)

Water abstractions

Climatological information

Future planned measures with transboundary impacts, such as infrastructure development

Other subjects (*please list*): [fill in]

Other comments, e.g. spatial coverage of data and information exchange: [fill in]

(e) Is there a shared database or information platform?

Yes /No

(f) Is the database publicly available?

Yes /No

*If yes, please provide the web address:*

<https://www.icpdr.org/main/activities-projects/tmn-transnational-monitoring-network>

(g) What are the main difficulties and challenges to data exchange, if applicable?

- Frequency of exchanges
- Timing of exchanges
- Comparability of data and information
- Limited spatial coverage
- Inadequate resources (technical and/or financial)

Other (*please describe*): [fill in]

Additional comments: [fill in]

(h) What are the main benefits of data exchange on the basin, sub-basin, part of a basin or group of basins? (*please describe*):

Better overview on the whole basin, comparability, improved possibilities for early warning and alarm system, improved understanding of other countries' issues and problems

7. Do the riparian States carry out joint monitoring in the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(a) If yes, what does the joint monitoring cover?

	<i>Hydrological</i>	<i>Ecological</i>	<i>Chemical</i>
Border surface waters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters in the entire basin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters on the main watercourse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters in part of the basin please describe [fill in]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transboundary aquifer(s) (connected or unconnected)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aquifer(s) in the territory of one riparian hydraulically connected to a transboundary river or lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(b) If joint monitoring is carried out, how is this done?

National monitoring stations connected through a network or common stations

*Please describe*: []

Joint and agreed methodologies

*Please describe*: [agreed by the ICPDR]

Joint sampling

---

*Please describe:* [monthly regular sampling for TNMN]

Common monitoring network

*Please describe:* [Trans National Monitoring Network]

Common agreed parameters

*Please describe:* [agreed by ICPDR]

(c) Please describe the main achievements regarding joint monitoring, if any:

The long-term cooperation yields in long time series of chemical and biological parameters, that enable joint trend analyses and joint conclusions on the trends.

The up to now 4 Joint Danube Surveys have significantly improved the knowledge on the main stream and tributaries as well as on methodologies (see <http://www.icpdr.org/main/activities-projects/joint-danube-survey>)

(d) Please describe any difficulties experienced with joint monitoring:

Lack of financing resources

8. Do the riparian States carry out joint assessment of the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment, and assessment methodology applied:*

Annual reports (<https://www.icpdr.org/main/publications/tnmn-yearbooks>)

Joint Danube Surveys (<https://www.icpdr.org/main/activities-projects/joint-danube-survey>)

Updated River Basin Management Plan

9. Have the riparian States agreed to use joint water quality standards?

Yes /No

*If yes, what standards have been applied, e.g. international or regional standards (please specify which), or have national standards of the riparian States been applied?*

According to the EU Water Framework Directive and its daughter directives on priority substances and groundwater

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution?

Notification and communication

Coordinated or joint early warning or alarm system for accidental water pollution

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

---

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events and climate change?

Notification and communication

Coordinated or joint alarm system for floods

Coordinated or joint alarm system for droughts

Joint climate change adaptation strategy

Joint disaster risk reduction strategy

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

12. Are procedures in place for mutual assistance in case of a critical situation?

Yes /No

*If yes, please provide a brief summary:*

addressed mainly on bilateral level (other treaties) and to certain extent through AEWS EG

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, how? (please tick all applicable)*

Stakeholders have observer status in a joint body or mechanism

Stakeholders have an advisory role in the joint body

Stakeholders have a decision-making role in the joint body

*If yes, please specify the stakeholders for the joint body or mechanism:*  
[fill in]

Intergovernmental organizations

Private sectors organizations or associations

Water user groups or associations

Academic or research institutions

Other non-governmental organizations

General public

Other (please specify): [fill in]

Availability of information to the public

Consultation on planned measures or river basin management plans<sup>7</sup>

Public involvement

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<sup>7</sup> Or, where applicable, aquifer management plans.

---

Other (*please specify*): [fill in]

**Please remember to complete section II for each of the transboundary basins, sub-basin, part of a basin or group of basins. Please also remember to attach copies of agreements or arrangements, if any.**

### III. Water management at the national level

In this section, you are requested to provide general information on water management at the national level as it relates to transboundary waters. Information on specific transboundary basins, sub-basins, part of basins and groups of basins, should be presented in section II and not repeated here.

1. (a) Does your country's national legislation, policies, action plans and strategies refer to measures to prevent, control and reduce any transboundary impact?

Yes /No

*If yes, please briefly describe the main national laws, policies, action plans and strategies:* Water Act 1995, Environmental Act 1995, Hungarian Water Management Strategy 2017, relevant Governmental Decrees, 2<sup>nd</sup> River Basin Management Plan 2015, Flood Risk Management Plan 2015, 4<sup>th</sup> National Environmental Program 2015-20

- (b) Does your country's legislation provide for the following principles?

Precautionary principle Yes /No

Polluter pays principle Yes /No

Sustainable development Yes /No

User pays principle Yes /No

If yes, please briefly describe how these principles are implemented at the national level: **Water and Environmental Act contains these principles**

- (c) Does your country have a national licensing or permitting system for wastewater discharges and other point source pollution? (e.g., in industry, mining, energy, municipal, wastewater management or other sectors)?

Yes /No

*If yes, for which sectors?*

Industry

Mining

Energy

Municipal

Livestock raising

Aquaculture

Other (please list): **Household water uses**

*Please briefly describe the licensing or permitting system, indicating whether the system provides for setting emission limits based on best available technology?*

**Licensing is obligatory for all water users based on BATs!**

*If yes, for which sectors? (please list):* **all water users, all sectors**

---

*If not, please explain why not (giving the most important reasons) or provide information if there are plans to introduce a licensing or permitting system: [fill in]*

(d) Are the authorized discharges monitored and controlled?

Yes /No

*If yes, how? (Please tick the ones applicable):*

Monitoring of discharges	<input checked="" type="checkbox"/>
Monitoring of physical and chemical impacts on water	<input checked="" type="checkbox"/>
Monitoring of ecological impacts on water	<input checked="" type="checkbox"/>
Conditions on permits	<input checked="" type="checkbox"/>
Inspectorate	<input checked="" type="checkbox"/>

Other means (*please list*): **self control supervised by permitting authorities**

*If your country does not have a discharge monitoring system, please explain why not or provide information if there are plans to introduce a discharge monitoring system: [fill in]*

(e) What are the main measures which your country takes to reduce diffuse sources of water pollution on transboundary waters (e.g., from agriculture, transport, forestry or aquaculture)? The measures listed below relate to agriculture, but other sectors may be more significant. Please be sure to include these under "others":

**Legislative measures**

Norm for uses of fertilizers	<input checked="" type="checkbox"/>
Norms for uses of manure	<input checked="" type="checkbox"/>
Permitting system	<input checked="" type="checkbox"/>
Bans on or norms for use of pesticides	<input checked="" type="checkbox"/>
Others ( <i>please list</i> ): [fill in]	

**Economic and financial measures**

Monetary incentives	<input checked="" type="checkbox"/>
Environmental taxes (such as fertilizer taxes)	<input checked="" type="checkbox"/>
Others ( <i>please list</i> ): [fill in]	

**Agricultural extension services**

**Technical measures**

*Source control measures*

Crop rotation	<input checked="" type="checkbox"/>
Tillage control	<input checked="" type="checkbox"/>
Winter cover crops	<input checked="" type="checkbox"/>
Others ( <i>please list</i> ): amelioration	

*Other measures*

Buffer/filter strips	<input checked="" type="checkbox"/>
Wetland reconstruction	<input checked="" type="checkbox"/>



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Sedimentation traps

Chemical measures

Others (*please list*): **agricultural road systems, forestry infrastructures**

**Other types of measures**

*If yes, please list: implementation of good environmental practice, where appropriate (N sensitive areas)*

(f) What are the main measures which your country takes to enhance water resources allocation and use efficiency?

*Please tick as appropriate (not all might be relevant)*

A regulatory system regarding water abstraction

Monitoring and control of abstractions

Water rights are defined

Water allocation priorities are listed

Water-saving technologies

Advanced irrigation techniques

Demand management activities

Other means (*please list*) **financial support of the above mentioned**

(g) Does your country apply the ecosystems approach?

Yes /No

*If yes, please describe how: according to the WFD requirements*

(h) Does your country take specific measures to prevent the pollution of groundwaters?

Yes /No

*If yes, please briefly describe the most important measures: **permitting, controlling, delineation of protective zones, drinking water resource protection program implementation, monitoring***

2. Do your national laws require transboundary environmental impact assessment (EIA)?

Yes /No

*If yes, please briefly describe the legislative basis, and any related implementing procedures. **Espoo Convention, implemented in national EIA regulation, harmonised with 2011/92/EU Directive and SEA regulation according to 2001/42/EC Directive***

*If not, do other measures provide for transboundary EIA? [fill in]*

#### IV. Final questions

1. What are the main challenges your country faces in cooperating on transboundary waters?

Differences between national administrative and legal frameworks

Lack of relevant data and information

- 
- |    |  |                                     |
|----|--|-------------------------------------|
|    | Difficulties in data and information exchange  | <input checked="" type="checkbox"/> |
|    | Sectoral fragmentation at the national level   | <input checked="" type="checkbox"/> |
|    | Language barrier   | <input type="checkbox"/>            |
|    | Resource constraints   | <input checked="" type="checkbox"/> |
|    | Environmental pressures, e.g. extreme events   | <input checked="" type="checkbox"/> |
|    | Sovereignty concerns   | <input type="checkbox"/>            |
|    | Please list other challenges and/or provide further details: [fill in]   |                                     |
| 2. | What have been the main achievements in-cooperating on transboundary waters?   |                                     |
|    | Improved water management  | <input checked="" type="checkbox"/> |
|    | Enhanced regional integration, i.e. beyond water   | <input checked="" type="checkbox"/> |
|    | Adoption of cooperative arrangements   | <input checked="" type="checkbox"/> |
|    | Adoption of joint plans and programmes   | <input checked="" type="checkbox"/> |
|    | Long-lasting and sustained cooperation   | <input checked="" type="checkbox"/> |
|    | Financial support for joint activities   | <input checked="" type="checkbox"/> |
|    | Stronger political will for transboundary water cooperation  | <input checked="" type="checkbox"/> |
|    | Better knowledge and understanding   | <input checked="" type="checkbox"/> |
|    | Dispute avoidance  | <input checked="" type="checkbox"/> |
|    | Stakeholder engagement   | <input checked="" type="checkbox"/> |
|    | Please list other achievements, keys to achieving success, and/or provide concrete examples: <b>good personal cooperation/friendship</b> |                                     |
| 3. | Please indicate which institutions were consulted during the completion of the questionnaire   |                                     |
|    | Joint body or mechanism  | <input checked="" type="checkbox"/> |
|    | Other riparian or aquifer countries  | <input checked="" type="checkbox"/> |
|    | National water management authority  | <input checked="" type="checkbox"/> |
|    | Environment agency/ authority  | <input checked="" type="checkbox"/> |
|    | Basin authority (national)   | <input checked="" type="checkbox"/> |
|    | Local or provincial government   | <input type="checkbox"/>            |
|    | Geological survey (national)   | <input type="checkbox"/>            |
|    | Non-water specific ministries, e.g. foreign affairs, finance, forestry and energy  | <input type="checkbox"/>            |
|    | Civil society organizations  | <input type="checkbox"/>            |
|    | Water user associations  | <input type="checkbox"/>            |
|    | Private sector   | <input type="checkbox"/>            |
|    | Other (please list): [fill in]   |                                     |

---

Please briefly describe the process by which the questionnaire was completed: consultation on national level, consultation with neighbouring countries

4. If you have any other comments please add them here (*insert comments*): [fill in]
5. Name and contact details of the person(s) who filled out the questionnaire (*please insert*):

**Péter Kovács**

Head of Department

**Ministry of Interior**

River Basin Management and Water Protection Department

1051 Budapest, József Attila u 2-4.

Tel:+36-1- 441-1376 Fax: +36-1-441-1698 Mob. +36-30-919-3821

Date: 19/06/2020 (initial submission);

05/11/2020 (final revised submission)

Signature:

Thank you very much for taking the time to complete this report.

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**Reporting on global SDG indicator 6.5.2**  
**TEMPLATE of the second cycle for reporting**

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**Content of the template**

The template is divided into four parts:

- Section I - Calculation of SDG indicator 6.5.2
- Section II - Information on each transboundary basin or group of basins
- Section III - General information on transboundary water management at the national level
- Section IV - Final questions

Country name: **HUNGARY**

**II. Questions for each transboundary basin, sub-basin, part of a basin, or group of basins (river, lake or aquifer)**

Please complete this second section for each transboundary basin (river or lake basin, or aquifer), sub-basin, part of a basin or a group of basins covered by the same agreement or arrangement where conditions are similar.<sup>1</sup> In some instances, you may provide information on both a basin and one or more of its sub-basins or parts thereof, for example, where you have agreements<sup>2</sup> or arrangements on both the basin and its sub-basin. You may coordinate your responses with other States with which your country shares transboundary waters, or even prepare a joint report. General information on transboundary water management at the national level should be provided in section III and not repeated here.

Please reproduce this whole section with its questions for each transboundary basin, sub-basin, part of a basin or group of basins for which you will provide a reply.

**AUSTRIA**

**Name of the transboundary basin,-sub-basin, part of a basin or group of basins: Rába, Lajta and Mosoni-Duna river basin**

List of the riparian States: **Austria, Hungary**

**In the case of an aquifer, what is the nature of the aquifer and its relation with the river or lake basin:**

- Unconfined aquifer connected to a river or lake
- Unconfined aquifer with no or limited relation with surface water
- Confined aquifer connected to surface water
- Confined aquifer with no or limited relation with surface water
- Other
- Please describe: [fill in]
- Unknown

**Percentage of your country's territory within the basin, sub-basin, part of a basin or group of basins: 60 %**

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin, sub-basin, part of a basin or group of basins?

- One or more agreements or arrangements exist and are in force
- Agreement or arrangement developed but not in force
- Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement(s) or arrangement(s):*

---

<sup>1</sup> In principle, section II should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

<sup>2</sup> In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of arrangements, such as memorandums of understanding.

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Egyezmény a Magyar Népköztársaság és az Osztrák Népköztársaság között a határvidék vízgazdálkodási kérdéseinek szabályozása tárgyában, aláírva 1956. április 09. Bécs (Agreement on the regulation of water management issues in the borderland between Hungary and Austria signed 09 April 1956. Vienna)

Agreement or arrangement is under development

No agreement or arrangement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body or mechanism for the transboundary basin, sub-basin, part of a basin or group of basins then jump to question 4; if there is no agreement or arrangement, but a joint body or mechanism then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, sub-basin, part of a basin or group of basins.**

2. (a) Does this agreement or arrangement specify the area subject to cooperation?

Yes /No

If yes, does it cover the entire basin or group of basins and all riparian States?

Yes /No

Additional explanations? **All activities considered relevant by the commission**

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Additional explanations? [fill in]

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): **Austria, Hungary**

(b) If the agreement or arrangement relates to a river or lake basin or sub-basin, does it also cover aquifers?

Yes /No

If yes, please list the aquifers covered by the agreement or arrangement: [fill in]

**The Agreement covers all surface and groundwaters that may have transboundary impact; but only those requiring current action and only for the timeperiod necessary are dealt with. Without specification all groundwaters of common interest falls under the scope of the agreement.**

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

- Agriculture
- Transport (e.g., navigation)
- Households
- Energy: hydropower and other energy types
- Fisheries
- Tourism
- Nature protection
- Other (*please list*): **water management**

(d) What topics or subjects of cooperation are included in the agreement or arrangement?

**Procedural and institutional issues**

- Dispute and conflict prevention and resolution
- Institutional cooperation (joint bodies)
- Consultation on planned measures
- Mutual assistance

**Topics of cooperation**

- Joint vision and management objectives
- Joint significant water management issues
- Navigation
- Human health
- Environmental protection (ecosystem)
- Water quality
- Water quantity or allocation
- Cooperation in addressing floods
- Cooperation in addressing droughts
- Climate change adaptation

**Monitoring and exchange**

- Joint assessments
- Data collection and exchange
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- Exchange of experience between riparian States
- Exchange of information on planned measures

**Joint planning and management**

- 
- Development of joint regulations on specific topics
  - Development of international or joint river, lake or aquifer basin management or action plans
  - Management of shared infrastructure
  - Development of shared infrastructure
  - Other (*please list*): [fill in]

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any?

- Aligning implementation of agreement or arrangement with national laws, policies and programmes
- Aligning implementation of agreement or arrangement with regional laws, policies and programmes
- Lack of financial resources
- Insufficient human capacity
- Insufficient technical capacity
- Tense diplomatic relations
- Non-participation of certain riparian countries in the agreement
- No significant difficulties
- Other (*please describe*): [fill in]

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?

Political commitment, exchange of experience, direct contact and communication between the parties at different levels

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): [http://njt.hu/cgi\\_bin/njt\\_doc.cgi?docid=505.965](http://njt.hu/cgi_bin/njt_doc.cgi?docid=505.965)

3. Is your country a member of any joint body or mechanism for this agreement or arrangement?

Yes /No

*If no, why not? (please explain):* [fill in]

**Where there is a joint body or mechanism**

(a) If there is a joint body or mechanism, which kind of joint body or mechanism (*please tick one*)?

- Plenipotentiaries
- Bilateral commission
- Basin or similar commission
- Expert group meeting or meeting of national focal points
- Other (*please describe*): [fill in]



(b) Does the joint body or mechanism cover the entire transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(c) Which States (including your own) are members of the joint body or mechanism? *(Please list)*: **Austria, Hungary**

(d) Are there any riparian States that are not members of the joint body or mechanism? *(please list)*: [fill in]

(e) If not all riparian States are members of the joint body or mechanism how does the joint body or mechanism cooperate with them?

No cooperation

They have observer status

Other *(please describe)*: [fill in]

(f) Does the joint body or mechanism have any of the following features *(please tick the ones applicable)*?

A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe)*: [fill in]

A subsidiary body or bodies

*Please list (e.g., working groups on specific topics):* sub-commission, expert group, if needed ad hoc groups

Other features *(please list)*: Secretary of Transboundary Commission

(g) What are the tasks and activities of this joint body or mechanism?<sup>3</sup>

Identification of pollution sources

Data collection and exchange

Joint monitoring

Maintenance of joint pollution inventories

Setting emission limits

Elaboration of joint water quality objectives

Management and prevention of flood or drought risks

Preparedness for extreme events, e.g., common early warning and alarm procedures

Surveillance and early warning of water related disease

Water allocation and/or flow regulation

Policy development

Control of implementation

---

<sup>3</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

- 
- |   |                                     |
|---|-------------------------------------|
| Exchange of experience between riparian States  | <input checked="" type="checkbox"/> |
| Exchange of information on existing and planned uses of water and related installations           | <input checked="" type="checkbox"/> |
| Settling of differences and conflicts   | <input checked="" type="checkbox"/> |
| Consultations on planned measures   | <input checked="" type="checkbox"/> |
| Exchange of information on best available technology  | <input checked="" type="checkbox"/> |
| Participation in transboundary EIA  | <input checked="" type="checkbox"/> |
| Development of river, lake or aquifer basin management or action plans                            | <input checked="" type="checkbox"/> |
| Management of shared infrastructure   | <input checked="" type="checkbox"/> |
| Addressing hydromorphological alterations   | <input checked="" type="checkbox"/> |
| Climate change adaptation   | <input checked="" type="checkbox"/> |
| Joint communication strategy  | <input type="checkbox"/>            |
| Basin-wide or joint public participation and consultation of, for example, basin management plans | <input type="checkbox"/>            |
| Joint resources to support transboundary cooperation  | <input checked="" type="checkbox"/> |
| Capacity-building   | <input checked="" type="checkbox"/> |
| Any other tasks ( <i>please list</i> ): [fill in]   |                                     |
- (h) What are the main difficulties and challenges that your country faces with the operation of the joint body or mechanism, if any?
- |  |                                     |
|--|-------------------------------------|
| Governance issues  | <input type="checkbox"/>            |
| <i>Please describe, if any:</i> [fill in]  |                                     |
| Unexpected planning delays   | <input type="checkbox"/>            |
| <i>Please describe, if any:</i> [fill in]  |                                     |
| Lack of resources  | <input checked="" type="checkbox"/> |
| <i>Please describe, if true:</i> [no separate fund for the transboundary water management] |                                     |
| Lack of mechanism for implementing measures  | <input type="checkbox"/>            |
| <i>Please describe, if true:</i> [fill in]   |                                     |
| Lack of effective measures   | <input type="checkbox"/>            |
| <i>Please describe, if true:</i> [fill in]   |                                     |
| Unexpected extreme events  | <input type="checkbox"/>            |
| <i>Please describe, if any:</i> [fill in]  |                                     |
| Lack of information and reliable forecasts   | <input type="checkbox"/>            |
| <i>Please describe, if any:</i> [fill in]  |                                     |
| Others ( <i>please list and describe, as appropriate</i> ): [fill in]                      |                                     |
- (i) Does the joint body or mechanism, or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet?

More than once per year

Once per year

Less than once per year

(j) What are the main achievements with regards to the joint body or mechanism? **effective water management, joint projects**

(k) Did the joint body or mechanism ever invite a non-riparian coastal State to cooperate?

Yes /No

*If yes, please give details. If no, why not, e.g. are the relevant coastal States also riparian States and therefore already members of the joint body or mechanism? [it is a bilateral cooperation]*

4. Have joint objectives, a common strategy, a joint or coordinated management plan or action plan been agreed for the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide further details: **Fertő/Neusidler lake development program 2018, Danube River Basin Management Plan 2015, Danube Flood Risk Management Plan 2015.***

5. How is the transboundary basin,–sub-basin, part of a basins or group of basins protected, including the protection of ecosystems, in the context of sustainable and rational water use?

Regulation of urbanization, deforestation, and sand and gravel extraction.

Environmental flow norms, including consideration of levels and seasonality

Water quality protection, e.g. nitrates, pesticides, faecal coliforms, heavy metals

Water-related species and habitats protection

Other measures (*please describe*): [fill in]

6. (a) Does your country regularly exchange information and data with other riparian States in the basin, sub-basin, part of a basin or group of basins?

Yes /No

(b) If yes, how often:

More than once per year

Once per year

Less than once per year

(c) Please describe how information is exchanged (e.g. in connection with meetings of joint bodies):

---

Based on the bilateral agreement with Austria, for other countries done by ICPDR and upon request, covering all environment data publically available

(d) If yes, on what subjects are information and data exchanged?

- |  |                                     |
|--|-------------------------------------|
| Environmental conditions   | <input type="checkbox"/>            |
| Research activities and application of best available techniques                       | <input checked="" type="checkbox"/> |
| Emission monitoring data   | <input type="checkbox"/>            |
| Planned measures taken to prevent, control or reduce transboundary impacts             | <input checked="" type="checkbox"/> |
| Point source pollution sources   | <input type="checkbox"/>            |
| Diffuse pollution sources  | <input type="checkbox"/>            |
| Existing hydromorphological alterations (dams, etc.)                                   | <input checked="" type="checkbox"/> |
| Flows or water levels (including groundwater levels)                                   | <input checked="" type="checkbox"/> |
| Water abstractions   | <input checked="" type="checkbox"/> |
| Climatological information   | <input type="checkbox"/>            |
| Future planned measures with transboundary impacts, such as infrastructure development | <input checked="" type="checkbox"/> |

Other subjects (*please list*): **water body status**

Other comments, e.g. spatial coverage of data and information exchange: [fill in]

(e) Is there a shared database or information platform?

Yes /No

(f) Is the database publicly available?

Yes /No

*If yes, please provide the web address:* [fill in]

(g) What are the main difficulties and challenges to data exchange, if applicable?

- |   |                                     |
|---|-------------------------------------|
| Frequency of exchanges                            | <input type="checkbox"/>            |
| Timing of exchanges                               | <input type="checkbox"/>            |
| Comparability of data and information             | <input type="checkbox"/>            |
| Limited spatial coverage                          | <input type="checkbox"/>            |
| Inadequate resources (technical and/or financial) | <input checked="" type="checkbox"/> |

Other (*please describe*): [fill in]

Additional comments: [fill in]

(h) What are the main benefits of data exchange on the basin, sub-basin, part of a basin or group of basins? (*please describe*): early warning

7. Do the riparian States carry out joint monitoring in the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(a) If yes, what does the joint monitoring cover?

	<i>Hydrological</i>	<i>Ecological</i>	<i>Chemical</i>
Border surface waters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in the entire basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters on the main watercourse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in part of the basin please describe [fill in]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transboundary aquifer(s) (connected or unconnected)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aquifer(s) in the territory of one riparian hydraulically connected to a transboundary river or lake	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

(b) If joint monitoring is carried out, how is this done?

National monitoring stations connected through a network or common stations

*Please describe:* [information is available via internet]

Joint and agreed methodologies

*Please describe:* [agreed by the sub commission]

Joint sampling

*Please describe:* [regular monthly sapling]

Common monitoring network

*Please describe:* [fill in]

Common agreed parameters

*Please describe:* [agreed by the sub commission]

(c) Please describe the main achievements regarding joint monitoring, if any: **continuous monitoring results are available**

(d) Please describe any difficulties experienced with joint monitoring:

**Differencies in national methodologies and standards, lack of resources**

8. Do the riparian States carry out joint assessment of the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment, and assessment methodology applied:*

**At the regular meetings of the subcommission, expert group**

9. Have the riparian States agreed to use joint water quality standards?

Yes /No

*If yes, what standards have been applied, e.g. international or regional standards (please specify which), or have national standards of the riparian States been applied? **Water Framework Directive***

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution?

Notification and communication

Coordinated or joint early warning or alarm system for accidental water pollution

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events and climate change?

Notification and communication

Coordinated or joint alarm system for floods

Coordinated or joint alarm system for droughts

Joint climate change adaptation strategy

Joint disaster risk reduction strategy

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

12. Are procedures in place for mutual assistance in case of a critical situation?

Yes /No

*If yes, please provide a brief summary: **between local water management bodies and disaster management units***

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, how? (please tick all applicable)*

Stakeholders have observer status in a joint body or mechanism

Stakeholders have an advisory role in the joint body

Stakeholders have a decision-making role in the joint body

*If yes, please specify the stakeholders for the joint body or mechanism:* [fill in]

Intergovernmental organizations

Private sectors organizations or associations

Water user groups or associations

- Academic or research institutions
- Other non-governmental organizations
- General public
- Other (please specify): [fill in]
- Availability of information to the public
- Consultation on planned measures or river basin management plans<sup>4</sup>
- Public involvement
- Other (*please specify*): **public participation for projects related to the transboundary water bodies is provided in the form of public consultations based on the WFD**

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<sup>4</sup> Or, where applicable, aquifer management plans.

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**Please remember to complete section II for each of the transboundary basins, sub-basin, part of a basin or group of basins. Please also remember to attach copies of agreements or arrangements, if any.**



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**Reporting on global SDG indicator 6.5.2**  
**TEMPLATE of the second cycle for reporting**

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**Content of the template**

The template is divided into four parts:

- Section I - Calculation of SDG indicator 6.5.2
- Section II - Information on each transboundary basin or group of basins
- Section III - General information on transboundary water management at the national level
- Section IV - Final questions

Country name: **HUNGARY**

**II. Questions for each transboundary basin, sub-basin, part of a basin, or group of basins (river, lake or aquifer)**

Please complete this second section for each transboundary basin (river or lake basin, or aquifer), sub-basin, part of a basin or a group of basins covered by the same agreement or arrangement where conditions are similar.<sup>1</sup> In some instances, you may provide information on both a basin and one or more of its sub-basins or parts thereof, for example, where you have agreements<sup>2</sup> or arrangements on both the basin and its sub-basin. You may coordinate your responses with other States with which your country shares transboundary waters, or even prepare a joint report. General information on transboundary water management at the national level should be provided in section III and not repeated here.

Please reproduce this whole section with its questions for each transboundary basin, sub-basin, part of a basin or group of basins for which you will provide a reply.

**CROATIA**

**Name of the transboundary basin, sub-basin, part of a basin or group of basins:**

Danube, Drava, Mura

List of the riparian States: **Hungary, Republic of Croatia**

**In the case of an aquifer, what is the nature of the aquifer and its relation with the river or lake basin:**

- Unconfined aquifer connected to a river or lake
- Unconfined aquifer with no or limited relation with surface water
- Confined aquifer connected to surface water
- Confined aquifer with no or limited relation with surface water
- Other

Please describe: [fill in]

Unknown

**Percentage of your country's territory within the basin, sub-basin, part of a basin or group of basins: 16% (Hu share from the entire Drava – Mura sub-basin)**

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin, sub-basin, part of a basin or group of basins?

- One or more agreements or arrangements exist and are in force
- Agreement or arrangement developed but not in force
- Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement(s) or arrangement(s)*

<sup>1</sup> In principle, section II should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

<sup>2</sup> In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of arrangements, such as memorandums of understanding.

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Egyezmény Magyar Köztársaság Kormánya és a Horvát Köztársaság Kormánya között a vízgazdálkodási együttműködés kérdéseiről (Pécs, 1994. július 10.)

(Agreement between the governments of the Hungarian Republic and the Republic of Croatia on water management, signed 10 July 1994, Pécs)

Agreement or arrangement is under development

No agreement or arrangement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body or mechanism for the transboundary basin, sub-basin, part of a basin or group of basins then jump to question 4; if there is no agreement or arrangement, but a joint body or mechanism then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, sub-basin, part of a basin or group of basins.**

2. (a) Does this agreement or arrangement specify the area subject to cooperation?

Yes /No

If yes, does it cover the entire basin or group of basins and all riparian States?

Yes /No

Additional explanations?

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Additional explanations? [it covers the area of common interest]

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): **Hungary, Republic of Croatia**

(b) If the agreement or arrangement relates to a river or lake basin or sub-basin, does it also cover aquifers?

Yes /No

If yes, please list the aquifers covered by the agreement or arrangement: [fill in]

**Without specification all groundwaters of common interest falls under the scope of the agreement.**

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

Agriculture

- Transport (e.g., navigation)
- Households
- Energy: hydropower and other energy types
- Fisheries
- Tourism
- Nature protection
- Other (*please list*): **water management**

(d) What topics or subjects of cooperation are included in the agreement or arrangement?

**Procedural and institutional issues**

- Dispute and conflict prevention and resolution
- Institutional cooperation (joint bodies)
- Consultation on planned measures
- Mutual assistance

**Topics of cooperation**

- Joint vision and management objectives
- Joint significant water management issues
- Navigation
- Human health
- Environmental protection (ecosystem)
- Water quality
- Water quantity or allocation
- Cooperation in addressing floods
- Cooperation in addressing droughts
- Climate change adaptation

**Monitoring and exchange**

- Joint assessments
- Data collection and exchange
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- Exchange of experience between riparian States
- Exchange of information on planned measures

**Joint planning and management**

- Development of joint regulations on specific topics

- 
- Development of international or joint river, lake or aquifer basin management or action plans
  - Management of shared infrastructure
  - Development of shared infrastructure
  - Other (*please list*): [fill in]

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any?

- Aligning implementation of agreement or arrangement with national laws, policies and programmes
- Aligning implementation of agreement or arrangement with regional laws, policies and programmes
- Lack of financial resources
- Insufficient human capacity
- Insufficient technical capacity
- Tense diplomatic relations
- Non-participation of certain riparian countries in the agreement
- No significant difficulties
- Other (*please describe*): [fill in]

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?

Political commitment, exchange of experience, direct contact and communication between the parties at different levels

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): [http://njt.hu/cgi\\_bin/njt\\_doc.cgi?docid=27395.279952](http://njt.hu/cgi_bin/njt_doc.cgi?docid=27395.279952)

3. Is your country a member of any joint body or mechanism for this agreement or arrangement?

Yes /No

*If no, why not? (please explain):* [fill in]

**Where there is a joint body or mechanism**

(a) If there is a joint body or mechanism, which kind of joint body or mechanism (*please tick one*)?

- Plenipotentiaries
- Bilateral commission
- Basin or similar commission
- Expert group meeting or meeting of national focal points
- Other (*please describe*): [fill in]

(b) Does the joint body or mechanism cover the entire transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(c) Which States (including your own) are members of the joint body or mechanism? *(Please list)*: **Hungary, Republic of Croatia**

(d) Are there any riparian States that are not members of the joint body or mechanism? *(please list)*: **Serbia, Slovenia, but all of the party to the ICPDR**

(e) If not all riparian States are members of the joint body or mechanism how does the joint body or mechanism cooperate with them?

No cooperation

They have observer status

Other *(please describe)*: **Through ICPDR and other bilateral commissions**

(f) Does the joint body or mechanism have any of the following features *(please tick the ones applicable)*?

A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe):* [fill in]

A subsidiary body or bodies

*Please list (e.g., working groups on specific topics):* Committee, Drava Subcommittee, Mura Subcommittee, Subcommittee on Water Quality, Subcommittee for Integrated Water Management.

Other features *(please list)*: Secretary of Transboundary Commission nominated by the countries for coordination

(g) What are the tasks and activities of this joint body or mechanism?<sup>3</sup>

Identification of pollution sources

Data collection and exchange

Joint monitoring

Maintenance of joint pollution inventories

Setting emission limits

Elaboration of joint water quality objectives

Management and prevention of flood or drought risks

Preparedness for extreme events, e.g., common early warning and alarm procedures

Surveillance and early warning of water related disease

Water allocation and/or flow regulation

Policy development

Control of implementation

---

<sup>3</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

- 
- Exchange of experience between riparian States
  - Exchange of information on existing and planned uses of water and related installations
  - Settling of differences and conflicts
  - Consultations on planned measures
  - Exchange of information on best available technology
  - Participation in transboundary EIA
  - Development of river, lake or aquifer basin management or action plans
  - Management of shared infrastructure
  - Addressing hydromorphological alterations
  - Climate change adaptation
  - Joint communication strategy
  - Basin-wide or joint public participation and consultation of, for example, basin management plans
  - Joint resources to support transboundary cooperation
  - Capacity-building
  - Any other tasks (*please list*): [fill in]

(h) What are the main difficulties and challenges that your country faces with the operation of the joint body or mechanism, if any?

- Governance issues   
*Please describe, if any:* Internal re-organisations of the water management
- Unexpected planning delays   
*Please describe, if any:* [fill in]
- Lack of resources   
*Please describe, if true:* [no separate fund for transboundary cooperation]
- Lack of mechanism for implementing measures   
*Please describe, if true:*
- Lack of effective measures   
*Please describe, if true:* [fill in]
- Unexpected extreme events   
*Please describe, if any:* [fill in]
- Lack of information and reliable forecasts   
*Please describe, if any:* [fill in]
- Others (*please list and describe, as appropriate*): [fill in]

(i) Does the joint body or mechanism, or its subsidiary bodies meet regularly?  
Yes /No

If yes, how frequently does it meet?

More than once per year ( bodies )

Once per year (commission)

Less than once per year

(j) What are the main achievements with regards to the joint body or mechanism? **effective water management, joint projects harmonisation of RBMP and FRMP**

(k) Did the joint body or mechanism ever invite a non-riparian coastal State to cooperate?

Yes /No

*If yes, please give details. If no, why not, e.g. are the relevant coastal States also riparian States and therefore already members of the joint body or mechanism? [it is a bilateral cooperation, Serbia and Slovenia sharing the basin has separate agreements]*

4. Have joint objectives, a common strategy, a joint or coordinated management plan or action plan been agreed for the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide further details: **Joint strategy for Ice management (Regulation revised in 2018) , Danube River Basin Management Plan 2015, Danube Flood Risk Management Plan 2015***

5. How is the transboundary basin, sub-basin, part of a basins or group of basins protected, including the protection of ecosystems, in the context of sustainable and rational water use?

Regulation of urbanization, deforestation, and sand and gravel extraction.

Environmental flow norms, including consideration of levels and seasonality

Water quality protection, e.g. nitrates, pesticides, faecal coliforms, heavy metals

Water-related species and habitats protection

Other measures (*please describe*): [fill in]

6. (a) Does your country regularly exchange information and data with other riparian States in the basin, sub-basin, part of a basin or group of basins?

Yes /No

(b) If yes, how often:

More than once per year

Once per year

Less than once per year

(c) Please describe how information is exchanged (e.g. in connection with meetings of joint bodies):



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for other countries done by ICPDR and upon request, covering all environment data publically available

(d) If yes, on what subjects are information and data exchanged?

- |  |                                     |
|--|-------------------------------------|
| Environmental conditions   | <input type="checkbox"/>            |
| Research activities and application of best available techniques                       | <input checked="" type="checkbox"/> |
| Emission monitoring data   | <input type="checkbox"/>            |
| Planned measures taken to prevent, control or reduce transboundary impacts             | <input checked="" type="checkbox"/> |
| Point source pollution sources   | <input type="checkbox"/>            |
| Diffuse pollution sources  | <input type="checkbox"/>            |
| Existing hydromorphological alterations (dams, etc.)                                   | <input checked="" type="checkbox"/> |
| Flows or water levels (including groundwater levels)                                   | <input checked="" type="checkbox"/> |
| Water abstractions   | <input type="checkbox"/>            |
| Climatological information   | <input checked="" type="checkbox"/> |
| Future planned measures with transboundary impacts, such as infrastructure development | <input checked="" type="checkbox"/> |

Other subjects (*please list*): **water body status**

Other comments, e.g. spatial coverage of data and information exchange: [fill in]

(e) Is there a shared database or information platform?

Yes /No

(f) Is the database publicly available?

Yes /No

*If yes, please provide the web address:* [fill in]

(g) What are the main difficulties and challenges to data exchange, if applicable?

- |   |                                     |
|---|-------------------------------------|
| Frequency of exchanges                            | <input type="checkbox"/>            |
| Timing of exchanges                               | <input type="checkbox"/>            |
| Comparability of data and information             | <input type="checkbox"/>            |
| Limited spatial coverage                          | <input type="checkbox"/>            |
| Inadequate resources (technical and/or financial) | <input checked="" type="checkbox"/> |

Other (*please describe*): [fill in]

Additional comments: [fill in]

(h) What are the main benefits of data exchange on the basin, sub-basin, part of a basin or group of basins? (*please describe*): harmonised measures, better forecasting

7. Do the riparian States carry out joint monitoring in the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(a) If yes, what does the joint monitoring cover?

	<i>Hydrological</i>	<i>Ecological</i>	<i>Chemical</i>
Border surface waters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in the entire basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters on the main watercourse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in part of the basin please describe [fill in]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Transboundary aquifer(s) (connected or unconnected)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aquifer(s) in the territory of one riparian hydraulically connected to a transboundary river or lake	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

(b) If joint monitoring is carried out, how is this done?

National monitoring stations connected through a network or common stations

*Please describe:* [fill in]

Joint and agreed methodologies

*Please describe:* [agreed by the sub-commissions]

Joint sampling

*Please describe:* [monthly joint sampling]

Common monitoring network

*Please describe:* [fill in]

Common agreed parameters

*Please describe:* [agreed by the sub-commissions]

(c) Please describe the main achievements regarding joint monitoring, if any: **Real time monitoring results are available**

(d) Please describe any difficulties experienced with joint monitoring: **lack of resources**

8. Do the riparian States carry out joint assessment of the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment, and assessment methodology applied:*

**At the regular meetings of the subcommission, expert group, yearly**

9. Have the riparian States agreed to use joint water quality standards?

Yes /No

---

*If yes, what standards have been applied, e.g. international or regional standards (please specify which), or have national standards of the riparian States been applied? **Water Framework Directive, National Standards***

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution?

Notification and communication

Coordinated or joint early warning or alarm system for accidental water pollution

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events and climate change?

Notification and communication

Coordinated or joint alarm system for floods

Coordinated or joint alarm system for droughts

Joint climate change adaptation strategy

Joint disaster risk reduction strategy

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

12. Are procedures in place for mutual assistance in case of a critical situation?

Yes /No

*If yes, please provide a brief summary: **between local water management bodies and disaster management units***

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, how? (please tick all applicable)*

Stakeholders have observer status in a joint body or mechanism

Stakeholders have an advisory role in the joint body

Stakeholders have a decision-making role in the joint body

*If yes, please specify the stakeholders for the joint body or mechanism:* [fill in]

Intergovernmental organizations

Private sectors organizations or associations

Water user groups or associations

- Academic or research institutions
- Other non-governmental organizations
- General public
- Other (please specify): [fill in]
- Availability of information to the public
- Consultation on planned measures or river basin management plans<sup>4</sup>
- Public involvement
- Other (*please specify*): public participation based on WFD

---

<sup>4</sup> Or, where applicable, aquifer management plans.

---

**Please remember to complete section II for each of the transboundary basins, sub-basin, part of a basin or group of basins. Please also remember to attach copies of agreements or arrangements, if any.**

---

**Reporting on global SDG indicator 6.5.2**  
**TEMPLATE of the second cycle for reporting**

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**Content of the template**

The template is divided into four parts:

- Section I - Calculation of SDG indicator 6.5.2
- Section II - Information on each transboundary basin or group of basins
- Section III - General information on transboundary water management at the national level
- Section IV - Final questions

Country name: **HUNGARY**

**II. Questions for each transboundary basin, sub-basin, part of a basin, or group of basins (river, lake or aquifer)**

Please complete this second section for each transboundary basin (river or lake basin, or aquifer), sub-basin, part of a basin or a group of basins covered by the same agreement or arrangement where conditions are similar.<sup>1</sup> In some instances, you may provide information on both a basin and one or more of its sub-basins or parts thereof, for example, where you have agreements<sup>2</sup> or arrangements on both the basin and its sub-basin. You may coordinate your responses with other States with which your country shares transboundary waters, or even prepare a joint report. General information on transboundary water management at the national level should be provided in section III and not repeated here.

Please reproduce this whole section with its questions for each transboundary basin, sub-basin, part of a basin or group of basins for which you will provide a reply.

**ROMANIA**

**Name of the transboundary basin, sub-basin, part of a basin or group of basins:** Túr, Szamos, Kraszna, Berettyó, Sebes-Körös, Fekete-Körös, Kettős-Körös, Fehér-Körös, Maros, Ér csatorna (Tributaries of the Tisza River Basin)

List of the riparian States: **Hungary, Romania**

**In the case of an aquifer, what is the nature of the aquifer and its relation with the river or lake basin:**

- Unconfined aquifer connected to a river or lake
- Unconfined aquifer with no or limited relation with surface water
- Confined aquifer connected to surface water
- Confined aquifer with no or limited relation with surface water
- Other
- Please describe: [fill in]
- Unknown

**Percentage of your country's territory within the basin, sub-basin, part of a basin or group of basins:**

- 25 % HU's share from the entire Túr Basin
- 2 % HU's share from the entire Szamos Basin
- 28 % HU's share from the entire Kraszna Basin
- 43,3 % HU's share from the entire Berettyó Basin
- 8,5 % HU's share from the entire Ér Basin

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<sup>1</sup> In principle, section II should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

<sup>2</sup> In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of arrangements, such as memorandums of understanding.

---

15 % HU's share from the entire Sebes-Körös Basin

13 % HU's share from the entire Fekete-Körös Basin

19 % HU's share from the entire Fehér-Körös Basin

4,6 % HU's share from the entire Maros Basin

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin, sub-basin, part of a basin or group of basins?

One or more agreements or arrangements exist and are in force

Agreement or arrangement developed but not in force

Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement(s) or arrangement(s)*

Magyar Köztársaság Kormánya és Románia Kormánya között a határvizek védelme és fenntartható hasznosítása céljából folytatandó együttműködésről Budapesten, 2003. szeptember 15-én aláírt, és 2004. május 17-én hatályba lépett Egyezmény. (Agreement between the Government of the Republic of Hungary and the Government of Romania on the Protection and Sustainable Use of Transboundary Waters, signed in Budapest, on 15 September 2003 (entered into force on 17 May 2004))

Agreement or arrangement is under development

No agreement or arrangement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body or mechanism for the transboundary basin, sub-basin, part of a basin or group of basins then jump to question 4; if there is no agreement or arrangement, but a joint body or mechanism then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, sub-basin, part of a basin or group of basins.**

2. (a) Does this agreement or arrangement specify the area subject to cooperation?

Yes /No

If yes, does it cover the entire basin or group of basins and all riparian States?

Yes /No

Additional explanations? **All areas considered relevant by the commission. Tisza basin shared by 5 countries, it is a bilateral agreement**

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Additional explanations? [fill in]

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): **Romania, Hungary**



(b) If the agreement or arrangement relates to a river or lake basin or sub-basin, does it also cover aquifers?

Yes /No

If yes, please list the aquifers covered by the agreement or arrangement: [fill in]

**Without specification all groundwaters of common interest falls under the scope of the agreement.**

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

Agriculture

Transport (e.g., navigation)

Households

Energy: hydropower and other energy types

Fisheries

Tourism

Nature protection

Other (*please list*): **water management**

(d) What topics or subjects of cooperation are included in the agreement or arrangement?

**Procedural and institutional issues**

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

**Topics of cooperation**

Joint vision and management objectives

Joint significant water management issues

Navigation

Human health

Environmental protection (ecosystem)

Water quality

Water quantity or allocation

Cooperation in addressing floods

---

Cooperation in addressing droughts

Climate change adaptation

**Monitoring and exchange**

Joint assessments

Data collection and exchange

Joint monitoring

Maintenance of joint pollution inventories

Elaboration of joint water quality objectives

Common early warning and alarm procedures

Exchange of experience between riparian States

Exchange of information on planned measures

**Joint planning and management**

Development of joint regulations on specific topics

Development of international or joint river, lake or aquifer basin management or action plans

Management of shared infrastructure

Development of shared infrastructure

Other (*please list*): [fill in]

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any?

Aligning implementation of agreement or arrangement with national laws, policies and programmes

Aligning implementation of agreement or arrangement with regional laws, policies and programmes

Lack of financial resources

Insufficient human capacity

Insufficient technical capacity

Tense diplomatic relations

Non-participation of certain riparian countries in the agreement

No significant difficulties

Other (*please describe*): [fill in]

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?

Political commitment (signature of Tisza MoU 2019), exchange of experience, direct contact and communication between the parties at different levels

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): Agreement available on EN language (courtesy translation only) attached, official languages HU and RO

3. Is your country a member of any joint body or mechanism for this agreement or arrangement?

Yes /No

If no, why not? (please explain): [fill in]

**Where there is a joint body or mechanism**

(a) If there is a joint body or mechanism, which kind of joint body or mechanism (please tick one)?

Plenipotentiaries

Bilateral commission

Basin or similar commission

Expert group meeting or meeting of national focal points

Other (please describe): [fill in]

(b) Does the joint body or mechanism cover the entire transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(c) Which States (including your own) are members of the joint body or mechanism? (Please list): **Hungary, Romania**

(d) Are there any riparian States that are not members of the joint body or mechanism? (please list): **Ukraine, Slovakia, Serbia, but all of the party to the ICPDR**

(e) If not all riparian States are members of the joint body or mechanism how does the joint body or mechanism cooperate with them?

No cooperation

They have observer status

Other (please describe): **Through ICPDR and other bilateral commissions**

(f) Does the joint body or mechanism have any of the following features (please tick the ones applicable)?

A secretariat

If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe): [fill in]

A subsidiary body or bodies

Please list (e.g., working groups on specific topics): Subcommittee on Water Management and Hydrometeorology; Subcommittee on Water Quality, Subcommittee on Flood and Inland Water Protection, Subcommittee on Coordination and on Development of Cooperation

Other features (please list): **Secretary of Transboundary Commission nominated by the countries for coordination**

- 
- (g) What are the tasks and activities of this joint body or mechanism?<sup>3</sup>
- |   |                                     |
|---|-------------------------------------|
| Identification of pollution sources   | <input type="checkbox"/>            |
| Data collection and exchange  | <input checked="" type="checkbox"/> |
| Joint monitoring  | <input checked="" type="checkbox"/> |
| Maintenance of joint pollution inventories  | <input type="checkbox"/>            |
| Setting emission limits   | <input type="checkbox"/>            |
| Elaboration of joint water quality objectives   | <input checked="" type="checkbox"/> |
| Management and prevention of flood or drought risks   | <input checked="" type="checkbox"/> |
| Preparedness for extreme events, e.g., common early warning and alarm procedures                  | <input checked="" type="checkbox"/> |
| Surveillance and early warning of water related disease   | <input type="checkbox"/>            |
| Water allocation and/or flow regulation   | <input checked="" type="checkbox"/> |
| Policy development  | <input type="checkbox"/>            |
| Control of implementation   | <input checked="" type="checkbox"/> |
| Exchange of experience between riparian States  | <input checked="" type="checkbox"/> |
| Exchange of information on existing and planned uses of water and related installations           | <input checked="" type="checkbox"/> |
| Settling of differences and conflicts   | <input checked="" type="checkbox"/> |
| Consultations on planned measures   | <input checked="" type="checkbox"/> |
| Exchange of information on best available technology  | <input checked="" type="checkbox"/> |
| Participation in transboundary EIA  | <input checked="" type="checkbox"/> |
| Development of river, lake or aquifer basin management or action plans                            | <input checked="" type="checkbox"/> |
| Management of shared infrastructure   | <input checked="" type="checkbox"/> |
| Addressing hydromorphological alterations   | <input checked="" type="checkbox"/> |
| Climate change adaptation   | <input checked="" type="checkbox"/> |
| Joint communication strategy  | <input type="checkbox"/>            |
| Basin-wide or joint public participation and consultation of, for example, basin management plans | <input type="checkbox"/>            |
| Joint resources to support transboundary cooperation  | <input type="checkbox"/>            |
| Capacity-building   | <input type="checkbox"/>            |
| Any other tasks ( <i>please list</i> ): [fill in]   |                                     |
- (h) What are the main difficulties and challenges that your country faces with the operation of the joint body or mechanism, if any?

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<sup>3</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

- Governance issues
- Please describe, if any:* Internal re-organisations of the water management
- Unexpected planning delays
- Please describe, if any:* [due to the lack of financing]
- Lack of resources
- Please describe, if true:* [no separate budget for the transboundary cooperation]
- Lack of mechanism for implementing measures
- Please describe, if true:* no enforcement
- Lack of effective measures
- Please describe, if true:* [due to the lack of financing]
- Unexpected extreme events
- Please describe, if any:* [fill in]
- Lack of information and reliable forecasts
- Please describe, if any:* [fill in]
- Others (*please list and describe, as appropriate*): [fill in]
- (i) Does the joint body or mechanism, or its subsidiary bodies meet regularly?  
 Yes /No
- If yes, how frequently does it meet?
- More than once per year (sub-commissions)
- Once per year commission
- Less than once per year
- (j) What are the main achievements with regards to the joint body or mechanism? **effective water management, joint projectsharmonisation of RBMP and FRMP**
- (k) Did the joint body or mechanism ever invite a non-riparian coastal State to cooperate?  
 Yes /No
- If yes, please give details. If no, why not, e.g. are the relevant coastal States also riparian States and therefore already members of the joint body or mechanism? [with other countries sharing the basin SK, RS, UA separate bilater agreements are in force]*
4. Have joint objectives, a common strategy, a joint or coordinated management plan or action plan been agreed for the basin, sub-basin, part of a basin or group of basins?  
 Yes /No
- If yes, please provide further details: **Danube River Basin Management Plan 2015, Danube Flood Risk Management Plan 2015, Joint development projects***

- 
5. How is the transboundary basin,–sub-basin, part of a basins or group of basins protected, including the protection of ecosystems, in the context of sustainable and rational water use?

Regulation of urbanization, deforestation, and sand and gravel extraction.

Environmental flow norms, including consideration of levels and seasonality

Water quality protection, e.g. nitrates, pesticides, faecal coliforms, heavy metals

Water-related species and habitats protection

Other measures (*please describe*): [fill in]

6. (a) Does your country regularly exchange information and data with other riparian States in the basin, sub-basin, part of a basin or group of basins?

Yes /No

(b) If yes, how often:

More than once per year

Once per year

Less than once per year

- (c) Please describe how information is exchanged (e.g. in connection with meetings of joint bodies):

for other countries done by ICPDR and upon request, covering all environment data publically available

- (d) If yes, on what subjects are information and data exchanged?

Environmental conditions

Research activities and application of best available techniques

Emission monitoring data

Planned measures taken to prevent, control or reduce transboundary impacts

Point source pollution sources

Diffuse pollution sources

Existing hydromorphological alterations (dams, etc.)

Flows or water levels (including groundwater levels)

Water abstractions

Climatological information

Future planned measures with transboundary impacts, such as infrastructure development

Other subjects (*please list*): **water body status**

Other comments, e.g. spatial coverage of data and information exchange: [fill in]

(e) Is there a shared database or information platform?

Yes /No

(f) Is the database publicly available?

Yes /No

If yes, please provide the web address: [fill in]

(g) What are the main difficulties and challenges to data exchange, if applicable?

Frequency of exchanges

Timing of exchanges

Comparability of data and information

Limited spatial coverage

Inadequate resources (technical and/or financial)

Other (*please describe*): [fill in]

Additional comments: [fill in]

(h) What are the main benefits of data exchange on the basin, sub-basin, part of a basin or group of basins? (*please describe*): harmonised measures, better forecasting

7. Do the riparian States carry out joint monitoring in the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(a) If yes, what does the joint monitoring cover?

	<i>Hydrological</i>	<i>Ecological</i>	<i>Chemical</i>
Border surface waters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in the entire basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters on the main watercourse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in part of the basin please describe [fill in]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transboundary aquifer(s) (connected or unconnected)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aquifer(s) in the territory of one riparian hydraulically connected to a transboundary river or lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(b) If joint monitoring is carried out, how is this done?

National monitoring stations connected through a network or common stations

*Please describe*: [fill in]

Joint and agreed methodologies

*Please describe*: [agreed by the sub commission]

- 
- Joint sampling
- Please describe:* [monthly joint sampling]
- Common monitoring network
- Please describe:* [fill in]
- Common agreed parameters
- Please describe:* [agreed by the sub commission]
- (c) Please describe the main achievements regarding joint monitoring, if any: **Real time monitoring results are available**
- (d) Please describe any difficulties experienced with joint monitoring: **lack of resources**
8. Do the riparian States carry out joint assessment of the transboundary basin, sub-basin, part of a basin or group of basins?
- Yes /No
- If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment, and assessment methodology applied:*
- At the regular meetings of the subcommission, expert group, yearly**
9. Have the riparian States agreed to use joint water quality standards?
- Yes /No
- If yes, what standards have been applied, e.g. international or regional standards (please specify which), or have national standards of the riparian States been applied? **Water Framework Directive, National Standards***
10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution?
- Notification and communication
- Coordinated or joint early warning or alarm system for accidental water pollution
- Other (*please list*): [fill in]
- No measures
- If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]
11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events and climate change?
- Notification and communication
- Coordinated or joint alarm system for floods
- Coordinated or joint alarm system for droughts
- Joint climate change adaptation strategy
- Joint disaster risk reduction strategy
- Other (*please list*): [fill in]
- No measures



*If not, why not? What difficulties does your country face in putting in place such measures?: [fill in]*

12. Are procedures in place for mutual assistance in case of a critical situation?

Yes /No

*If yes, please provide a brief summary: **between local water management bodies and disaster management units***

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, how? (please tick all applicable)*

Stakeholders have observer status in a joint body or mechanism

Stakeholders have an advisory role in the joint body

Stakeholders have a decision-making role in the joint body

*If yes, please specify the stakeholders for the joint body or mechanism:*  
[fill in]

Intergovernmental organizations

Private sectors organizations or associations

Water user groups or associations

Academic or research institutions

Other non-governmental organizations

General public

Other (please specify): [fill in]

Availability of information to the public

Consultation on planned measures or river basin management plans<sup>4</sup>

Public involvement

Other (please specify): public participation based on WFD

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<sup>4</sup> Or, where applicable, aquifer management plans.

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**Please remember to complete section II for each of the transboundary basins, sub-basin, part of a basin or group of basins. Please also remember to attach copies of agreements or arrangements, if any.**

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**Reporting on global SDG indicator 6.5.2**  
**TEMPLATE of the second cycle for reporting**

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**Content of the template**

The template is divided into four parts:

- Section I - Calculation of SDG indicator 6.5.2
- Section II - Information on each transboundary basin or group of basins
- Section III - General information on transboundary water management at the national level
- Section IV - Final questions

Country name: **HUNGARY**

**II. Questions for each transboundary basin, sub-basin, part of a basin, or group of basins (river, lake or aquifer)**

Please complete this second section for each transboundary basin (river or lake basin, or aquifer), sub-basin, part of a basin or a group of basins covered by the same agreement or arrangement where conditions are similar.<sup>1</sup> In some instances, you may provide information on both a basin and one or more of its sub-basins or parts thereof, for example, where you have agreements<sup>2</sup> or arrangements on both the basin and its sub-basin. You may coordinate your responses with other States with which your country shares transboundary waters, or even prepare a joint report. General information on transboundary water management at the national level should be provided in section III and not repeated here.

Please reproduce this whole section with its questions for each transboundary basin, sub-basin, part of a basin or group of basins for which you will provide a reply.

**SERBIA**

**Name of the transboundary basin, sub-basin, part of a basin or group of basins:**  
Danube, Tisza

List of the riparian States: **Hungary, Republic of Serbia**

**In the case of an aquifer, what is the nature of the aquifer and its relation with the river or lake basin:**

- Unconfined aquifer connected to a river or lake
- Unconfined aquifer with no or limited relation with surface water
- Confined aquifer connected to surface water
- Confined aquifer with no or limited relation with surface water
- Other
- Please describe: [fill in]
- Unknown

**Percentage of your country's territory within the basin, sub-basin, part of a basin or group of basins:** 29,4 % (HU's share from the entire Tisza Basin)

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin, sub-basin, part of a basin or group of basins?

- One or more agreements or arrangements exist and are in force
- Agreement or arrangement developed but not in force
- Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement(s) or arrangement(s)*

<sup>1</sup> In principle, section II should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

<sup>2</sup> In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of arrangements, such as memorandums of understanding.

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Convention between the Government of Hungary and the Government of the Republic of Serbia on cooperation in the field of sustainable water management in transboundary waters and river basins of common interest, signed on 15 April 2019 (entered into force on 24 April 2020)

Agreement or arrangement is under development

No agreement or arrangement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body or mechanism for the transboundary basin, sub-basin, part of a basin or group of basins then jump to question 4; if there is no agreement or arrangement, but a joint body or mechanism then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, sub-basin, part of a basin or group of basins.**

2. (a) Does this agreement or arrangement specify the area subject to cooperation?

Yes /No

If yes, does it cover the entire basin or group of basins and all riparian States?

Yes /No

Additional explanations? **All areas considered relevant by the commission. Tisza basin shared by 5 countries, it is a bilateral agreement.**

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Additional explanations? [fill in]

Which States (including your own) are bound by the agreement or arrangement? (Please list): **Hungary, Republic of Serbia**

(b) If the agreement or arrangement relates to a river or lake basin or sub-basin, does it also cover aquifers?

Yes /No

If yes, please list the aquifers covered by the agreement or arrangement: [fill in]

**Without specification all groundwaters of common interest falls under the scope of the agreement.**

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

- Agriculture
- Transport (e.g., navigation)
- Households
- Energy: hydropower and other energy types
- Fisheries
- Tourism
- Nature protection
- Other (*please list*): **water management**

(d) What topics or subjects of cooperation are included in the agreement or arrangement?

**Procedural and institutional issues**

- Dispute and conflict prevention and resolution
- Institutional cooperation (joint bodies)
- Consultation on planned measures
- Mutual assistance

**Topics of cooperation**

- Joint vision and management objectives
- Joint significant water management issues
- Navigation
- Human health
- Environmental protection (ecosystem)
- Water quality
- Water quantity or allocation
- Cooperation in addressing floods
- Cooperation in addressing droughts
- Climate change adaptation

**Monitoring and exchange**

- Joint assessments
- Data collection and exchange
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- Exchange of experience between riparian States
- Exchange of information on planned measures

**Joint planning and management**

- 
- Development of joint regulations on specific topics
  - Development of international or joint river, lake or aquifer basin management or action plans
  - Management of shared infrastructure
  - Development of shared infrastructure
  - Other (*please list*): [fill in]

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any?

- Aligning implementation of agreement or arrangement with national laws, policies and programmes
- Aligning implementation of agreement or arrangement with regional laws, policies and programmes
- Lack of financial resources
- Insufficient human capacity
- Insufficient technical capacity
- Tense diplomatic relations
- Non-participation of certain riparian countries in the agreement
- No significant difficulties
- Other (*please describe*): [fill in]

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?

Political commitment (signature of Tisza MoU 2019), exchange of experience, direct contact and communication between the parties at different levels

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): [http://njt.hu/cgi\\_bin/njt\\_doc.cgi?docid=213961.381726](http://njt.hu/cgi_bin/njt_doc.cgi?docid=213961.381726)

3. Is your country a member of any joint body or mechanism for this agreement or arrangement?

Yes /No

*If no, why not? (please explain):* [fill in]

**Where there is a joint body or mechanism**

(a) If there is a joint body or mechanism, which kind of joint body or mechanism (*please tick one*)?

- Plenipotentiaries
- Bilateral commission
- Basin or similar commission
- Expert group meeting or meeting of national focal points
- Other (*please describe*): [fill in]

(b) Does the joint body or mechanism cover the entire transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(c) Which States (including your own) are members of the joint body or mechanism? *(Please list)*: **Hungary, Republic of Serbia**

(d) Are there any riparian States that are not members of the joint body or mechanism? (please list): **Ukraine, Slovakia, Romania, but all of the party to the ICPDR**

(e) If not all riparian States are members of the joint body or mechanism how does the joint body or mechanism cooperate with them?

No cooperation

They have observer status

Other *(please describe)*: **Through ICPDR and other bilateral commissions**

(f) Does the joint body or mechanism have any of the following features *(please tick the ones applicable)*?

A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe):* [fill in]

A subsidiary body or bodies

*Please list (e.g., working groups on specific topics):* Subcommittee on Water Management; Subcommittee on Water Quality, Subcommittee on Flood Risk Management, ad-hock tasks groups

Other features *(please list)*: Secretary of Transboundary Commission nominated by the countries for coordination

(g) What are the tasks and activities of this joint body or mechanism?<sup>3</sup>

Identification of pollution sources

Data collection and exchange

Joint monitoring

Maintenance of joint pollution inventories

Setting emission limits

Elaboration of joint water quality objectives

Management and prevention of flood or drought risks

Preparedness for extreme events, e.g., common early warning and alarm procedures

Surveillance and early warning of water related disease

Water allocation and/or flow regulation

---

<sup>3</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.



- 
- Policy development
  - Control of implementation
  - Exchange of experience between riparian States
  - Exchange of information on existing and planned uses of water and related installations
  - Settling of differences and conflicts
  - Consultations on planned measures
  - Exchange of information on best available technology
  - Participation in transboundary EIA
  - Development of river, lake or aquifer basin management or action plans
  - Management of shared infrastructure
  - Addressing hydromorphological alterations
  - Climate change adaptation
  - Joint communication strategy
  - Basin-wide or joint public participation and consultation of, for example, basin management plans
  - Joint resources to support transboundary cooperation
  - Capacity-building
  - Any other tasks (*please list*): [fill in]

(h) What are the main difficulties and challenges that your country faces with the operation of the joint body or mechanism, if any?

- Governance issues   
*Please describe, if any:* Internal re-organisations of the water management
- Unexpected planning delays   
*Please describe, if any:* [fill in]
- Lack of resources   
*Please describe, if true:* [no separate budget]
- Lack of mechanism for implementing measures   
*Please describe, if true:*
- Lack of effective measures   
*Please describe, if true:* [fill in]
- Unexpected extreme events   
*Please describe, if any:* [fill in]
- Lack of information and reliable forecasts   
*Please describe, if any:* [due to the lack of financing]
- Others (*please list and describe, as appropriate*): [fill in]

(i) Does the joint body or mechanism, or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet?

More than once per year ( bodies )

Once per year (commission)

Less than once per year

(j) What are the main achievements with regards to the joint body or mechanism? **effective water management, joint projects harmonisation of RBMP and FRMP**

(k) Did the joint body or mechanism ever invite a non-riparian coastal State to cooperate?

Yes /No

*If yes, please give details. If no, why not, e.g. are the relevant coastal States also riparian States and therefore already members of the joint body or mechanism? [it is a bilateral agreement, Croatia sharing the basin but has separate bilateral commission]*

4. Have joint objectives, a common strategy, a joint or coordinated management plan or action plan been agreed for the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide further details: **Joint strategy for Ice management (Regulation revised in 2018) , Danube River Basin Management Plan 2015, Danube Flood Management Plan 2015***

5. How is the transboundary basin, sub-basin, part of a basins or group of basins protected, including the protection of ecosystems, in the context of sustainable and rational water use?

Regulation of urbanization, deforestation, and sand and gravel extraction.

Environmental flow norms, including consideration of levels and seasonality

Water quality protection, e.g. nitrates, pesticides, faecal coliforms, heavy metals

Water-related species and habitats protection

Other measures (*please describe*): [fill in]

6. (a) Does your country regularly exchange information and data with other riparian States in the basin, sub-basin, part of a basin or group of basins?

Yes /No

(b) If yes, how often:

More than once per year

Once per year

Less than once per year

---

(c) Please describe how information is exchanged (e.g. in connection with meetings of joint bodies):

for other countries done by ICPDR and upon request, covering all environment data publically available

(d) If yes, on what subjects are information and data exchanged?

Environmental conditions

Research activities and application of best available techniques

Emission monitoring data

Planned measures taken to prevent, control or reduce transboundary impacts

Point source pollution sources

Diffuse pollution sources

Existing hydromorphological alterations (dams, etc.)

Flows or water levels (including groundwater levels)

Water abstractions

Climatological information

Future planned measures with transboundary impacts, such as infrastructure development

Other subjects (*please list*): **water body status**

Other comments, e.g. spatial coverage of data and information exchange: [fill in]

(e) Is there a shared database or information platform?

Yes /No

(f) Is the database publicly available?

Yes /No

*If yes, please provide the web address:* [fill in]

(g) What are the main difficulties and challenges to data exchange, if applicable?

Frequency of exchanges

Timing of exchanges

Comparability of data and information

Limited spatial coverage

Inadequate resources (technical and/or financial)

Other (*please describe*): [fill in]

Additional comments: [fill in]

(h) What are the main benefits of data exchange on the basin, sub-basin, part of a basin or group of basins? (*please describe*): harmonised measures, better forecasting

7. Do the riparian States carry out joint monitoring in the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(a) If yes, what does the joint monitoring cover?

	<i>Hydrological</i>	<i>Ecological</i>	<i>Chemical</i>
Border surface waters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in the entire basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters on the main watercourse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in part of the basin please describe [fill in]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Transboundary aquifer(s) (connected or unconnected)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aquifer(s) in the territory of one riparian hydraulically connected to a transboundary river or lake	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

(b) If joint monitoring is carried out, how is this done?

National monitoring stations connected through a network or common stations

*Please describe:* [fill in]

Joint and agreed methodologies

*Please describe:* [agreed by the sub commission]

Joint sampling

*Please describe:* [monthly joint sampling]

Common monitoring network

*Please describe:* [fill in]

Common agreed parameters

*Please describe:* [agreed by the sub commission]

(c) Please describe the main achievements regarding joint monitoring, if any: **Real time monitoring results are available**

(d) Please describe any difficulties experienced with joint monitoring: **lack of resources**

8. Do the riparian States carry out joint assessment of the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment, and assessment methodology applied:*

**At the regular meetings of the subcommission, expert group, yearly**

9. Have the riparian States agreed to use joint water quality standards?

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Yes /No

*If yes, what standards have been applied, e.g. international or regional standards (please specify which), or have national standards of the riparian States been applied? **Water Framework Directive, National Standards***

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution?

Notification and communication

Coordinated or joint early warning or alarm system for accidental water pollution

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events and climate change?

Notification and communication

Coordinated or joint alarm system for floods

Coordinated or joint alarm system for droughts

Joint climate change adaptation strategy

Joint disaster risk reduction strategy

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

12. Are procedures in place for mutual assistance in case of a critical situation?

Yes /No

*If yes, please provide a brief summary: **between local water management bodies and disaster management units***

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, how? (please tick all applicable)*

Stakeholders have observer status in a joint body or mechanism

Stakeholders have an advisory role in the joint body

Stakeholders have a decision-making role in the joint body

*If yes, please specify the stakeholders for the joint body or mechanism:* [fill in]

Intergovernmental organizations

Private sectors organizations or associations

- Water user groups or associations
- Academic or research institutions
- Other non-governmental organizations
- General public
- Other (please specify): [fill in]
- Availability of information to the public
- Consultation on planned measures or river basin management plans<sup>4</sup>
- Public involvement
- Other (*please specify*): public participation based on WFD

**Please remember to complete section II for each of the transboundary basins, sub-basin, part of a basin or group of basins. Please also remember to attach copies of agreements or arrangements, if any.**

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<sup>4</sup> Or, where applicable, aquifer management plans.

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**Reporting on global SDG indicator 6.5.2**  
**TEMPLATE of the second cycle for reporting**

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**Content of the template**

The template is divided into four parts:

- Section I - Calculation of SDG indicator 6.5.2
- Section II - Information on each transboundary basin or group of basins
- Section III - General information on transboundary water management at the national level
- Section IV - Final questions

Country name: **HUNGARY**

**II. Questions for each transboundary basin, sub-basin, part of a basin, or group of basins (river, lake or aquifer)**

Please complete this second section for each transboundary basin (river or lake basin, or aquifer), sub-basin, part of a basin or a group of basins covered by the same agreement or arrangement where conditions are similar.<sup>1</sup> In some instances, you may provide information on both a basin and one or more of its sub-basins or parts thereof, for example, where you have agreements<sup>2</sup> or arrangements on both the basin and its sub-basin. You may coordinate your responses with other States with which your country shares transboundary waters, or even prepare a joint report. General information on transboundary water management at the national level should be provided in section III and not repeated here.

Please reproduce this whole section with its questions for each transboundary basin, sub-basin, part of a basin or group of basins for which you will provide a reply.

**SLOVENIA**

**Name of the transboundary basin,-sub-basin, part of a basin or group of basins: Mura river basin**

List of the riparian States: **Slovenia, Hungary**

**In the case of an aquifer, what is the nature of the aquifer and its relation with the river or lake basin:**

- Unconfined aquifer connected to a river or lake
- Unconfined aquifer with no or limited relation with surface water
- Confined aquifer connected to surface water
- Confined aquifer with no or limited relation with surface water
- Other
- Please describe: [fill in]
- Unknown

**Percentage of your country's territory within the basin, sub-basin, part of a basin or group of basins: 15 %**

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin, sub-basin, part of a basin or group of basins?
- One or more agreements or arrangements exist and are in force
- Agreement or arrangement developed but not in force
- Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement(s) or arrangement(s)*

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<sup>1</sup> In principle, section II should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

<sup>2</sup> In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of arrangements, such as memorandums of understanding.



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A Magyar Köztársaság Kormánya és a Szlovén Köztársaság Kormánya között a vízgazdálkodási kérdések tárgyában aláírt Egyezmény Ljubljánában, 1994. október 21 (Agreement on Water Management Cooperation between the Government of Hungary and the Government of the Slovenian Republic, 21. October 1994. Ljubljana)

Agreement or arrangement is under development

No agreement or arrangement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body or mechanism for the transboundary basin, sub-basin, part of a basin or group of basins then jump to question 4; if there is no agreement or arrangement, but a joint body or mechanism then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, sub-basin, part of a basin or group of basins.**

2. (a) Does this agreement or arrangement specify the area subject to cooperation?

Yes /No

If yes, does it cover the entire basin or group of basins and all riparian States?

Yes /No

Additional explanations? **jointly interested areas**

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Additional explanations? [fill in]

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): **Slovenia, Hungary**

(b) If the agreement or arrangement relates to a river or lake basin or sub-basin, does it also cover aquifers?

Yes /No

If yes, please list the aquifers covered by the agreement or arrangement: [fill in]

**Without specification all groundwaters of common interest falls under the scope of the agreement.**

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

- Agriculture
- Transport (e.g., navigation)
- Households
- Energy: hydropower and other energy types
- Fisheries
- Tourism
- Nature protection
- Other (*please list*): **water management, activities with transboundary**

**effects**

(d) What topics or subjects of cooperation are included in the agreement or arrangement?

**Procedural and institutional issues**

- Dispute and conflict prevention and resolution
- Institutional cooperation (joint bodies)
- Consultation on planned measures
- Mutual assistance

**Topics of cooperation**

- Joint vision and management objectives
- Joint significant water management issues
- Navigation
- Human health
- Environmental protection (ecosystem)
- Water quality
- Water quantity or allocation
- Cooperation in addressing floods
- Cooperation in addressing droughts
- Climate change adaptation

**Monitoring and exchange**

- Joint assessments
- Data collection and exchange
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- Exchange of experience between riparian States
- Exchange of information on planned measures

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**Joint planning and management**

Development of joint regulations on specific topics

Development of international or joint river, lake or aquifer basin management or action plans

Management of shared infrastructure

Development of shared infrastructure

Other (*please list*): [fill in]

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any?

Aligning implementation of agreement or arrangement with national laws, policies and programmes

Aligning implementation of agreement or arrangement with regional laws, policies and programmes

Lack of financial resources

Insufficient human capacity

Insufficient technical capacity

Tense diplomatic relations

Non-participation of certain riparian countries in the agreement

No significant difficulties

Other (*please describe*): [fill in]

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?

**Excellent cooperation and relations of the Partners, political commitment, exchange of experience**

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): **Government Regulation No 41/2001 (III.14.) about the Agreement on Water Management Cooperation between the Government of the Hungarian Republic and the Government of the Slovenian Republic is available for download:**

**<http://www.nyuduvizig.hu/index.php/rolunk/nemzetkozi-kapcsolatok/egyezmennyek?showall=&start=2>**

**Individual pages in Hungarian language:**

**[http://www.nyuduvizig.hu/upload/6\\_6-egyezmeny-1.jpg](http://www.nyuduvizig.hu/upload/6_6-egyezmeny-1.jpg);**

**[http://www.nyuduvizig.hu/upload/6\\_6-egyezmeny-2.jpg](http://www.nyuduvizig.hu/upload/6_6-egyezmeny-2.jpg),**

**[http://www.nyuduvizig.hu/upload/6\\_6-egyezmeny-3.jpg](http://www.nyuduvizig.hu/upload/6_6-egyezmeny-3.jpg),**

**[http://www.nyuduvizig.hu/upload/6\\_6-egyezmeny-4.jpg](http://www.nyuduvizig.hu/upload/6_6-egyezmeny-4.jpg)**

3. Is your country a member of any joint body or mechanism for this agreement or arrangement?

Yes /No

*If no, why not? (please explain):* [fill in]

**Where there is a joint body or mechanism**

(a) If there is a joint body or mechanism, which kind of joint body or mechanism (please tick one)?

- Plenipotentiaries
- Bilateral commission
- Basin or similar commission
- Expert group meeting or meeting of national focal points
- Other (please describe): [fill in]

(b) Does the joint body or mechanism cover the entire transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(c) Which States (including your own) are members of the joint body or mechanism? (Please list): **Slovenia, Hungary**

(d) Are there any riparian States that are not members of the joint body or mechanism? (please list): [Austria, Croatia]

(e) If not all riparian States are members of the joint body or mechanism how does the joint body or mechanism cooperate with them?

- No cooperation
- They have observer status
- Other (please describe): **basin wide cooperation by ICPDR**

(f) Does the joint body or mechanism have any of the following features (please tick the ones applicable)?

- A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe): [each country has a secretary]*

- A subsidiary body or bodies

*Please list (e.g., working groups on specific topics): **Subcommittees and working groups on Water Quality***

*Other features (please list): **Secretary of Transboundary Commission nominated by countries for coordination***

(g) What are the tasks and activities of this joint body or mechanism?<sup>3</sup>

- Identification of pollution sources
- Data collection and exchange
- Joint monitoring
- Maintenance of joint pollution inventories

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<sup>3</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

- 
- Setting emission limits
  - Elaboration of joint water quality objectives
  - Management and prevention of flood or drought risks
  - Preparedness for extreme events, e.g., common early warning and alarm procedures
  - Surveillance and early warning of water related disease
  - Water allocation and/or flow regulation
  - Policy development
  - Control of implementation
  - Exchange of experience between riparian States
  - Exchange of information on existing and planned uses of water and related installations
  - Settling of differences and conflicts
  - Consultations on planned measures
  - Exchange of information on best available technology
  - Participation in transboundary EIA
  - Development of river, lake or aquifer basin management or action plans
  - Management of shared infrastructure
  - Addressing hydromorphological alterations
  - Climate change adaptation
  - Joint communication strategy
  - Basin-wide or joint public participation and consultation of, for example, basin management plans
  - Joint resources to support transboundary cooperation
  - Capacity-building
  - Any other tasks (*please list*): [fill in]

(h) What are the main difficulties and challenges that your country faces with the operation of the joint body or mechanism, if any?

- Governance issues   
*Please describe, if any:* [fill in]
- Unexpected planning delays   
*Please describe, if any:* [fill in]
- Lack of resources   
*Please describe, if true: national budget is limited*
- Lack of mechanism for implementing measures   
*Please describe, if true: no enforcement*

Lack of effective measures

*Please describe, if true:* [fill in]

Unexpected extreme events

*Please describe, if any:* **flood, drought**

Lack of information and reliable forecasts

*Please describe, if any:* [fill in]

Others (*please list and describe, as appropriate*): [fill in]

(i) Does the joint body or mechanism, or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet?

More than once per year

Once per year

Less than once per year

(j) What are the main achievements with regards to the joint body or mechanism? **effective water management, joint projects**

(k) Did the joint body or mechanism ever invite a non-riparian coastal State to cooperate?

Yes /No

*If yes, please give details. If no, why not, e.g. are the relevant coastal States also riparian States and therefore already members of the joint body or mechanism? it is a bilateral cooperation, Austria and Croatia sharing the basin but not invited, as we have a separate bilateral cooperation*

4. Have joint objectives, a common strategy, a joint or coordinated management plan or action plan been agreed for the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide further details:* **Operation of Kebele reservoir (2008) Danube River Basin Management Plan 2015, Danube Flood risk Management Plan 2015. Joint development programs approved by the joint commission**

5. How is the transboundary basin, sub-basin, part of a basins or group of basins protected, including the protection of ecosystems, in the context of sustainable and rational water use?

Regulation of urbanization, deforestation, and sand and gravel extraction.

Environmental flow norms, including consideration of levels and seasonality

Water quality protection, e.g. nitrates, pesticides, faecal coliforms, heavy metals

Water-related species and habitats protection

Other measures (*please describe*): [fill in]

- 
6. (a) Does your country regularly exchange information and data with other riparian States in the basin, sub-basin, part of a basin or group of basins?

Yes /No

- (b) If yes, how often:

More than once per year

Once per year

Less than once per year

- (c) Please describe how information is exchanged (e.g. in connection with meetings of joint bodies):

**Based on the bilateral agreement with Slovenia, with other countries via ICPDR**

- (d) If yes, on what subjects are information and data exchanged?

Environmental conditions

Research activities and application of best available techniques

Emission monitoring data

Planned measures taken to prevent, control or reduce transboundary impacts

Point source pollution sources

Diffuse pollution sources

Existing hydromorphological alterations (dams, etc.)

Flows or water levels (including groundwater levels)

Water abstractions

Climatological information

Future planned measures with transboundary impacts, such as infrastructure development

Other subjects (*please list*): **water body status**

Other comments, e.g. spatial coverage of data and information exchange: [fill in]

- (e) Is there a shared database or information platform?

Yes /No

- (f) Is the database publicly available?

Yes /No

*If yes, please provide the web address:* [fill in]

- (g) What are the main difficulties and challenges to data exchange, if applicable?

Frequency of exchanges

Timing of exchanges

Comparability of data and information

Limited spatial coverage

Inadequate resources (technical and/or financial)

Other (*please describe*): [fill in]

Additional comments: [fill in]

(h) What are the main benefits of data exchange on the basin, sub-basin, part of a basin or group of basins? (*please describe*): **early warning**

7. Do the riparian States carry out joint monitoring in the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(a) If yes, what does the joint monitoring cover?

	<i>Hydrological</i>	<i>Ecological</i>	<i>Chemical</i>
Border surface waters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in the entire basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters on the main watercourse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in part of the basin please describe [fill in]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transboundary aquifer(s) (connected or unconnected)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aquifer(s) in the territory of one riparian hydraulically connected to a transboundary river or lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(b) If joint monitoring is carried out, how is this done?

National monitoring stations connected through a network or common stations

*Please describe*: [fill in]

Joint and agreed methodologies

*Please describe*: [agreed by the expert group]

Joint sampling

*Please describe*: [regular joint monthly sampling]

Common monitoring network

*Please describe*: [fill in]

Common agreed parameters

*Please describe*: [agreed by the expert group]

(c) Please describe the main achievements regarding joint monitoring, if any: **continuous monitoring results are available**

(d) Please describe any difficulties experienced with joint monitoring: **providing data in time**



- 
8. Do the riparian States carry out joint assessment of the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment, and assessment methodology applied:*

**At the regular meetings of the subcommissions, expert groups 1/year**

9. Have the riparian States agreed to use joint water quality standards?

Yes /No

*If yes, what standards have been applied, e.g. international or regional standards (please specify which), or have national standards of the riparian States been applied? **parameters of the Water Framework Directive***

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution?

Notification and communication

Coordinated or joint early warning or alarm system for accidental water pollution

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events and climate change?

Notification and communication

Coordinated or joint alarm system for floods

Coordinated or joint alarm system for droughts

Joint climate change adaptation strategy

Joint disaster risk reduction strategy

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* **Regulation Document of the Water Management Expert Group (not in force but under preparation)**

12. Are procedures in place for mutual assistance in case of a critical situation?

Yes /No

*If yes, please provide a brief summary:* **direct cooperation via HU-SL transboundary commissions**

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, how? (please tick all applicable)*

Stakeholders have observer status in a joint body or mechanism

Stakeholders have an advisory role in the joint body

Stakeholders have a decision-making role in the joint body

*If yes, please specify the stakeholders for the joint body or mechanism:*  
[fill in]

Intergovernmental organizations

Private sectors organizations or associations

Water user groups or associations

Academic or research institutions

Other non-governmental organizations

General public

Other (please specify): [fill in]

Availability of information to the public

Consultation on planned measures or river basin management plans<sup>4</sup>

Public involvement

Other (*please specify*): **public participation for projects related to the transboundary water bodies is provided in the form of public consultations based on the WFD**

**Please remember to complete section II for each of the transboundary basins, sub-basin, part of a basin or group of basins. Please also remember to attach copies of agreements or arrangements, if any.**

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<sup>4</sup> Or, where applicable, aquifer management plans.

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**Reporting on global SDG indicator 6.5.2**  
**TEMPLATE of the second cycle for reporting**

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**Content of the template**

The template is divided into four parts:

- Section I - Calculation of SDG indicator 6.5.2
- Section II - Information on each transboundary basin or group of basins
- Section III - General information on transboundary water management at the national level
- Section IV - Final questions

Country name: **HUNGARY**

**II. Questions for each transboundary basin, sub-basin, part of a basin, or group of basins (river, lake or aquifer)**

Please complete this second section for each transboundary basin (river or lake basin, or aquifer), sub-basin, part of a basin or a group of basins covered by the same agreement or arrangement where conditions are similar.<sup>1</sup> In some instances, you may provide information on both a basin and one or more of its sub-basins or parts thereof, for example, where you have agreements<sup>2</sup> or arrangements on both the basin and its sub-basin. You may coordinate your responses with other States with which your country shares transboundary waters, or even prepare a joint report. General information on transboundary water management at the national level should be provided in section III and not repeated here.

Please reproduce this whole section with its questions for each transboundary basin, sub-basin, part of a basin or group of basins for which you will provide a reply.

**SLOVAKIA**

**Name of the transboundary basin,-sub-basin, part of a basin or group of basins:**

**Danube – Ipoly sub-basin, Tisa sub-basin - Bodrog, Sajó, Bódva, Hernád sub-basins**

List of the riparian States: Hungary (HU), Slovakia (SK),

**In the case of an aquifer, what is the nature of the aquifer and its relation with the river or lake basin:**

- Unconfined aquifer connected to a river or lake
- Unconfined aquifer with no or limited relation with surface water
- Confined aquifer connected to surface water
- Confined aquifer with no or limited relation with surface water
- Other

Please describe: [fill in]

Unknown

**Percentage of your country's territory within the basin, sub-basin, part of a basin or group of basins:**

Danube basin 11,6%

Ipoly sub-basin 29,2%

Tisa sub-basin 29,5%

Bodrog sub- basin 7,2%

Sajó sub- basin 34,7%

Bódva sub- basin 50,3%

Hernád sub- basin 18,6%

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<sup>1</sup> In principle, section II should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

<sup>2</sup> In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of arrangements, such as memorandums of understanding.

- 
1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin, sub-basin, part of a basin or group of basins?

One or more agreements or arrangements exist and are in force

Agreement or arrangement developed but not in force

Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement(s) or arrangement(s)*

Egyezmény a Magyar Népköztársaság Kormánya és a Csehszlovák Szocialista Köztársaság Kormánya között a határvizek vízgazdálkodási kérdéseinek szabályozásáról aláírva Budapest, 1976. május 31. (Agreement between the Government of the Hungarian People's Republic and the Government of the Czechoslovak Socialist Republic on the regulation of water management of the border waters signed 31 May 1976. Budapest)

Agreement or arrangement is under development

Agreement between the Government of the Slovak republic and the Government of the Hungary on transboundary waters cooperation

No agreement or arrangement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body or mechanism for the transboundary basin, sub-basin, part of a basin or group of basins then jump to question 4; if there is no agreement or arrangement, but a joint body or mechanism then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, sub-basin, part of a basin or group of basins.**

2. (a) Does this agreement or arrangement specify the area subject to cooperation?

Yes /No

If yes, does it cover the entire basin or group of basins and all riparian States?

Yes /No

Additional explanations?

The sections of border waters, including rivers and other natural water courses or channels which constitute the border furthermore segments of the surface waters and groundwaters which are crossed by the border.

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Additional explanations?

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): Hungary, Slovakia

- (b) If the agreement or arrangement relates to a river or lake basin or sub-basin, does it also cover aquifers?

Yes /No

If yes, please list the aquifers covered by the agreement or arrangement:

Without specification all groundwaters of common interest falls under the scope of the agreement.

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

Agriculture

Transport (e.g., navigation)

Households

Energy: hydropower and other energy types

Fisheries

Tourism

Nature protection

Other (*please list*): [fill in]Water management

(d) What topics or subjects of cooperation are included in the agreement or arrangement?

**Procedural and institutional issues**

Dispute and conflict prevention and resolution

Institutional cooperation (joint bodies)

Consultation on planned measures

Mutual assistance

**Topics of cooperation**

Joint vision and management objectives

Joint significant water management issues

Navigation

Human health

Environmental protection (ecosystem)

Water quality

Water quantity or allocation

Cooperation in addressing floods

Cooperation in addressing droughts

Climate change adaptation

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**Monitoring and exchange**

- Joint assessments
- Data collection and exchange
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- Exchange of experience between riparian States
- Exchange of information on planned measures

**Joint planning and management**

- Development of joint regulations on specific topics
- Development of international or joint river, lake or aquifer basin management or action plans
- Management of shared infrastructure
- Development of shared infrastructure
- Other (*please list*): [fill in]

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any?

- Aligning implementation of agreement or arrangement with national laws, policies and programmes
- Aligning implementation of agreement or arrangement with regional laws, policies and programmes
- Lack of financial resources
- Insufficient human capacity
- Insufficient technical capacity
- Tense diplomatic relations
- Non-participation of certain riparian countries in the agreement
- No significant difficulties

Other (*please describe*): Diversion of Danube river at Szigetköz to Gabčíkovo Hydropowerplant, no agreement on the construction and operation and mitigation of adverse effects.

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?

- The implementation is the basis of the successful cooperation.
- It contributes to the coordinated implementation of the WFD and FRD.
- It helps successful cross-border cooperation.
- Regular reviews and updating of the regulations related to the Agreement.
- As a result of the regulations Hungary as a downstream country is informed in time about flood in the upper river basin.

- The good relationship between professionals plays a key role in the successful implementation.

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*):

3. Is your country a member of any joint body or mechanism for this agreement or arrangement?

Yes /No

*If no, why not? (please explain):* [fill in]

**Where there is a joint body or mechanism**

(a) If there is a joint body or mechanism, which kind of joint body or mechanism (*please tick one*)?

Plenipotentiaries

Bilateral commission

Basin or similar commission

Expert group meeting or meeting of national focal points

Other (*please describe*): [fill in]

(b) Does the joint body or mechanism cover the entire transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(c) Which States (including your own) are members of the joint body or mechanism? (*Please list*): Slovakia and Hungary

(d) Are there any riparian States that are not members of the joint body or mechanism? (*please list*): [fill in] Ukraine

(e) If not all riparian States are members of the joint body or mechanism how does the joint body or mechanism cooperate with them?

No cooperation

They have observer status

Other (*please describe*): [fill in] Trough the ICPDR and other bilateral commissions

(f) Does the joint body or mechanism have any of the following features (*please tick the ones applicable*)?

A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe):* [fill in]

A subsidiary body or bodies

*Please list (e.g., working groups on specific topics):*

- Danube sub-committee,
- Ipoly sub-committee,
- Tisza and tributaries sub-committee,



- Joint water quality protection and hydrology sub-committee,
- Financial sub-committee

Other features (*please list*): [fill in]

(g) What are the tasks and activities of this joint body or mechanism?<sup>3</sup>

- |   |                                     |
|---|-------------------------------------|
| Identification of pollution sources   | <input type="checkbox"/>            |
| Data collection and exchange  | <input checked="" type="checkbox"/> |
| Joint monitoring  | <input checked="" type="checkbox"/> |
| Maintenance of joint pollution inventories  | <input checked="" type="checkbox"/> |
| Setting emission limits   | <input type="checkbox"/>            |
| Elaboration of joint water quality objectives   | <input checked="" type="checkbox"/> |
| Management and prevention of flood or drought risks   | <input checked="" type="checkbox"/> |
| Preparedness for extreme events, e.g., common early warning and alarm procedures                  | <input checked="" type="checkbox"/> |
| Surveillance and early warning of water related disease   | <input type="checkbox"/>            |
| Water allocation and/or flow regulation   | <input checked="" type="checkbox"/> |
| Policy development  | <input type="checkbox"/>            |
| Control of implementation   | <input checked="" type="checkbox"/> |
| Exchange of experience between riparian States  | <input checked="" type="checkbox"/> |
| Exchange of information on existing and planned uses of water and related installations           | <input checked="" type="checkbox"/> |
| Settling of differences and conflicts   | <input checked="" type="checkbox"/> |
| Consultations on planned measures   | <input checked="" type="checkbox"/> |
| Exchange of information on best available technology  | <input type="checkbox"/>            |
| Participation in transboundary EIA  | <input checked="" type="checkbox"/> |
| Development of river, lake or aquifer basin management or action plans                            | <input checked="" type="checkbox"/> |
| Management of shared infrastructure   | <input checked="" type="checkbox"/> |
| Addressing hydromorphological alterations   | <input checked="" type="checkbox"/> |
| Climate change adaptation   | <input type="checkbox"/>            |
| Joint communication strategy  | <input type="checkbox"/>            |
| Basin-wide or joint public participation and consultation of, for example, basin management plans | <input type="checkbox"/>            |
| Joint resources to support transboundary cooperation  | <input type="checkbox"/>            |
| Capacity-building   | <input type="checkbox"/>            |

---

<sup>3</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

Any other tasks (*please list*): [fill in]

(h) What are the main difficulties and challenges that your country faces with the operation of the joint body or mechanism, if any?

Governance issues

*Please describe, if any:* [fill in]

Unexpected planning delays

*Please describe, if any:* [fill in]

Lack of resources

*Please describe, if true:* Financial problems

Lack of mechanism for implementing measures

*Please describe, if true:* [fill in]

Lack of effective measures

*Please describe, if true:* [fill in]

Unexpected extreme events

*Please describe, if any:* flood, drought

Lack of information and reliable forecasts

*Please describe, if any:* [fill in]

Others (*please list and describe, as appropriate*): [fill in]

(i) Does the joint body or mechanism, or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet?

More than once per year

Once per year

Less than once per year

(j) What are the main achievements with regards to the joint body or mechanism?

- Efficient water management cooperation.
- The Parties inform each other about their development concept on the regular meetings.
- The plenipotentiaries maintain active cooperation and correspondence between the regular meetings.

(k) Did the joint body or mechanism ever invite a non-riparian coastal State to cooperate?

Yes /No

*If yes, please give details. If no, why not, e.g. are the relevant coastal States also riparian States and therefore already members of the joint body or mechanism?* not relevant

- 
4. Have joint objectives, a common strategy, a joint or coordinated management plan or action plan been agreed for the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide further details: Danube River Basin Management Plan 2015, Danube Flood risk Management Plan 2015, Common development projects*

5. How is the transboundary basin, sub-basin, part of a basin or group of basins protected, including the protection of ecosystems, in the context of sustainable and rational water use?

Regulation of urbanization, deforestation, and sand and gravel extraction.

Environmental flow norms, including consideration of levels and seasonality

Water quality protection, e.g. nitrates, pesticides, faecal coliforms, heavy metals

Water-related species and habitats protection

Other measures (*please describe*): [fill in]

6. (a) Does your country regularly exchange information and data with other riparian States in the basin, sub-basin, part of a basin or group of basins?

Yes /No

(b) If yes, how often:

More than once per year

Once per year

Less than once per year

- (c) Please describe how information is exchanged (e.g. in connection with meetings of joint bodies):

for other countries done by ICPDR and upon request, covering all environment data publically available

- (d) If yes, on what subjects are information and data exchanged?

Environmental conditions

Research activities and application of best available techniques

Emission monitoring data

Planned measures taken to prevent, control or reduce transboundary impacts

Point source pollution sources

Diffuse pollution sources

Existing hydromorphological alterations (dams, etc.)

Flows or water levels (including groundwater levels)

Water abstractions

Climatological information

Future planned measures with transboundary impacts, such as infrastructure development

Other subjects (*please list*): [fill in]

Other comments, e.g. spatial coverage of data and information exchange: [fill in]

(e) Is there a shared database or information platform?

Yes /No

(f) Is the database publicly available?

Yes /No

*If yes, please provide the web address:*

Danube GIS network: <https://www.danubegis.org/>

Annual Monitoring Network (TNMN) <http://www.icpdr.org/main/activities-projects/tnmn-transnational-monitoring-network>

(g) What are the main difficulties and challenges to data exchange, if applicable?

Frequency of exchanges

Timing of exchanges

Comparability of data and information

Limited spatial coverage

Inadequate resources (technical and/or financial)

Other (*please describe*): [fill in]

Additional comments: [fill in]

(h) What are the main benefits of data exchange on the basin, sub-basin, part of a basin or group of basins? (*please describe*):

- better consolidation and comparison of data monitored and assessed
- usability for planning, knowledge of data eg. on available resources capacities
- effective early warning for floods and accidental water pollution

7. Do the riparian States carry out joint monitoring in the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(a) If yes, what does the joint monitoring cover?

---

	<i>Hydrological</i>	<i>Ecological</i>	<i>Chemical</i>
Border surface waters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

---

	<i>Hydrological</i>	<i>Ecological</i>	<i>Chemical</i>
Surface waters in the entire basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters on the main watercourse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in part of the basin please describe [fill in]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transboundary aquifer(s) (connected or unconnected)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aquifer(s) in the territory of one riparian hydraulically connected to a transboundary river or lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(b) If joint monitoring is carried out, how is this done?

National monitoring stations connected through a network or common stations

*Please describe:*

There are regular joint measurements of flows in agreed profiles, average daily flow from gauge stations. These measurements are validated, harmonized. Methodologies are compared. In case of alerts and warning regime – there is a joint protocol on details of mutual exchange.

Joint and agreed methodologies

*Please describe:* according to WFD guidances of common implementation strategies and adopted technical documents

Joint sampling

*Please describe:* agreements under the Joint water quality protection and hydrology sub-committee

Common monitoring network

*Please describe:* [fill in]

Common agreed parameters

*Please describe:* agreements under the Joint water quality protection and hydrology sub-committee

(c) Please describe the main achievements regarding joint monitoring, if any:

Continuous reporting and information exchange. As a result of the monitoring the potential contaminations can be detected in time for intervention.

(d) Please describe any difficulties experienced with joint monitoring: [fill in]

8. Do the riparian States carry out joint assessment of the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment, and assessment methodology applied:*

During the regular meeting of the sub-committees twice a year

Scope: hydrological data, discharge, flow, groundwater quantity, surface and groundwater quality, data regarding flood, excess water and ice flood management

9. Have the riparian States agreed to use joint water quality standards?

Yes /No

*If yes, what standards have been applied, e.g. international or regional standards (please specify which), or have national standards of the riparian States been applied?*

Monitoring parameters according to the WFD

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution?

Notification and communication

Coordinated or joint early warning or alarm system for accidental water pollution

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events and climate change?

Notification and communication

Coordinated or joint alarm system for floods

Coordinated or joint alarm system for droughts

Joint climate change adaptation strategy

Joint disaster risk reduction strategy

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

12. Are procedures in place for mutual assistance in case of a critical situation?

Yes /No

*If yes, please provide a brief summary:* The agreement regulates the mutual assistance in article 10. In case of extreme emergency the parties provide immediate assistance to each other (human, material and technical resources). The costs are covered by the Party which asked for the assistance.

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, sub-basin, part of a basin or group of basins?

---

Yes /No

*If yes, how? (please tick all applicable)*

Stakeholders have observer status in a joint body or mechanism

Stakeholders have an advisory role in the joint body

Stakeholders have a decision-making role in the joint body

*If yes, please specify the stakeholders for the joint body or mechanism:*  
[fill in]

Intergovernmental organizations

Private sectors organizations or associations

Water user groups or associations

Academic or research institutions

Other non-governmental organizations

General public

Other (please specify): [fill in]

Availability of information to the public

Consultation on planned measures or river basin management plans<sup>4</sup>

Public involvement

Other (*please specify*): public participation is provided for projects, RBMs, based on the WFD

**Please remember to complete section II for each of the transboundary basins, sub-basin, part of a basin or group of basins. Please also remember to attach copies of agreements or arrangements, if any.**

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<sup>4</sup> Or, where applicable, aquifer management plans.

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**Reporting on global SDG indicator 6.5.2**  
**TEMPLATE of the second cycle for reporting**

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**Content of the template**

The template is divided into four parts:

- Section I - Calculation of SDG indicator 6.5.2
- Section II - Information on each transboundary basin or group of basins
- Section III - General information on transboundary water management at the national level
- Section IV - Final questions

Country name: **HUNGARY**



**II. Questions for each transboundary basin, sub-basin, part of a basin, or group of basins (river, lake or aquifer)**

Please complete this second section for each transboundary basin (river or lake basin, or aquifer), sub-basin, part of a basin or a group of basins covered by the same agreement or arrangement where conditions are similar.<sup>1</sup> In some instances, you may provide information on both a basin and one or more of its sub-basins or parts thereof, for example, where you have agreements<sup>2</sup> or arrangements on both the basin and its sub-basin. You may coordinate your responses with other States with which your country shares transboundary waters, or even prepare a joint report. General information on transboundary water management at the national level should be provided in section III and not repeated here.

Please reproduce this whole section with its questions for each transboundary basin, sub-basin, part of a basin or group of basins for which you will provide a reply.

**UKRAINE**

**Name of the transboundary basin,-sub-basin, part of a basin or group of basins: Tisza River basin**

List of the riparian States: **Ukraine, Hungary**

**In the case of an aquifer, what is the nature of the aquifer and its relation with the river or lake basin:**

- Unconfined aquifer connected to a river or lake
- Unconfined aquifer with no or limited relation with surface water
- Confined aquifer connected to surface water
- Confined aquifer with no or limited relation with surface water
- Other
- Please describe: [fill in]
- Unknown

**Percentage of your country's territory within the basin, sub-basin, part of a basin or group of basins: 29,4 % (HU's share from the entire Tisza Basin)**

1. Is there one or more transboundary (bilateral or multilateral) agreement(s) or arrangement(s) on this basin, sub-basin, part of a basin or group of basins?

- One or more agreements or arrangements exist and are in force
- Agreement or arrangement developed but not in force
- Agreement or arrangement developed, but not in force for all riparians

*Please insert the name of the agreement(s) or arrangement(s)*

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<sup>1</sup> In principle, section II should be submitted for every transboundary basin, river, lake or aquifer, in the country, but States may decide to group basins in which their share is small or leave out basins in which their share is very minor, e.g., below 1 per cent.

<sup>2</sup> In section II, "agreement" covers all kinds of treaties, conventions and agreements ensuring cooperation in the field of transboundary waters. Section II can also be completed for other types of arrangements, such as memorandums of understanding.

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Convention between the Government of the Republic of Hungary and the Government of Ukraine on Transboundary Water Issues, signed in Budapest, on 11 November 1997

Agreement or arrangement is under development

No agreement or arrangement

*If there is no agreement or arrangement or it is not in force, please explain briefly why not and provide information on any plans to address the situation: [fill in]*

**If there is no agreement or arrangement and no joint body or mechanism for the transboundary basin, sub-basin, part of a basin or group of basins then jump to question 4; if there is no agreement or arrangement, but a joint body or mechanism then go to question 3.**

**Questions 2 and 3 to be completed for each bilateral or multilateral agreement or arrangement in force in the transboundary basin, sub-basin, part of a basin or group of basins.**

2. (a) Does this agreement or arrangement specify the area subject to cooperation?

Yes /No

If yes, does it cover the entire basin or group of basins and all riparian States?

Yes /No

Additional explanations? **All areas considered relevant by the commission. Tisza basin shared by 5 countries, it is a bilateral agreement**

Or, if the agreement or arrangement relates to a sub-basin, does it cover the entire sub-basin?

Yes /No

Additional explanations? [fill in]

Which States (including your own) are bound by the agreement or arrangement?  
(Please list): **Ukraine, Hungary**

(b) If the agreement or arrangement relates to a river or lake basin or sub-basin, does it also cover aquifers?

Yes /No

If yes, please list the aquifers covered by the agreement or arrangement: [fill in]

(c) What is the sectoral scope of the agreement or arrangement?

All water uses

A single water use or sector

Several water uses or sectors

*If one or several water uses or sectors, please list (check as appropriate):*

**Water uses or sectors**

Industry

Agriculture

Transport (e.g., navigation)

Households

- Energy: hydropower and other energy types
- Fisheries
- Tourism
- Nature protection
- Other (*please list*): **water management**

(d) What topics or subjects of cooperation are included in the agreement or arrangement?

**Procedural and institutional issues**

- Dispute and conflict prevention and resolution
- Institutional cooperation (joint bodies)
- Consultation on planned measures
- Mutual assistance

**Topics of cooperation**

- Joint vision and management objectives
- Joint significant water management issues
- Navigation
- Human health
- Environmental protection (ecosystem)
- Water quality
- Water quantity or allocation
- Cooperation in addressing floods
- Cooperation in addressing droughts
- Climate change adaptation

**Monitoring and exchange**

- Joint assessments
- Data collection and exchange
- Joint monitoring
- Maintenance of joint pollution inventories
- Elaboration of joint water quality objectives
- Common early warning and alarm procedures
- Exchange of experience between riparian States
- Exchange of information on planned measures

**Joint planning and management**

- Development of joint regulations on specific topics
- Development of international or joint river, lake or aquifer basin management or action plans

---

Management of shared infrastructure

Development of shared infrastructure

Other (*please list*): [fill in]

(e) What are the main difficulties and challenges that your country faces with the agreement or arrangement and its implementation, if any?

Aligning implementation of agreement or arrangement with national laws, policies and programmes

Aligning implementation of agreement or arrangement with regional laws, policies and programmes

Lack of financial resources

Insufficient human capacity

Insufficient technical capacity

Tense diplomatic relations

Non-participation of certain riparian countries in the agreement

No significant difficulties

Other (*please describe*): [fill in]

(f) What are the main achievements in implementing the agreement or arrangement and what were the keys to achieving such success?

Political commitment (signature of Tisza MoU 2019), exchange of experience, direct contact and communication between the parties at different levels

(g) Please attach a copy of the agreement or arrangement or provide the web address of the document (*please attach document or insert web address, if applicable*): Agreement available only HU and UA languages, attached HU version.

3. Is your country a member of any joint body or mechanism for this agreement or arrangement?

Yes /No

*If no, why not? (please explain):* [fill in]

**Where there is a joint body or mechanism**

(a) If there is a joint body or mechanism, which kind of joint body or mechanism (*please tick one*)?

Plenipotentiaries

Bilateral commission

Basin or similar commission

Expert group meeting or meeting of national focal points

Other (*please describe*): [fill in]

(b) Does the joint body or mechanism cover the entire transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(c) Which States (including your own) are members of the joint body or mechanism? *(Please list)*: **Hungary, Ukraine**

(d) Are there any riparian States that are not members of the joint body or mechanism? (please list): **Romania, Slovakia, Serbia, but all of the party to the ICPDR**

(e) If not all riparian States are members of the joint body or mechanism how does the joint body or mechanism cooperate with them?

No cooperation

They have observer status

Other *(please describe)*: **Through ICPDR and other bilateral commissions**

(f) Does the joint body or mechanism have any of the following features *(please tick the ones applicable)*?

A secretariat

*If the secretariat is a permanent one, is it a joint secretariat or does each country host its own secretariat? (Please describe):* [fill in]

A subsidiary body or bodies

*Please list (e.g., working groups on specific topics):* Expert Group on Water Damage Prevention, on Hydrometeorology and Water Management, on Water Quality Management

Other features *(please list)*: Secretary of Transboundary Commission **nominated by the countries for coordination**

(g) What are the tasks and activities of this joint body or mechanism?<sup>3</sup>

Identification of pollution sources

Data collection and exchange

Joint monitoring

Maintenance of joint pollution inventories

Setting emission limits

Elaboration of joint water quality objectives

Management and prevention of flood or drought risks

Preparedness for extreme events, e.g., common early warning and alarm procedures

Surveillance and early warning of water related disease

Water allocation and/or flow regulation

Policy development

Control of implementation

Exchange of experience between riparian States

---

<sup>3</sup> This may include tasks according to the agreement or tasks added by the joint body, or its subsidiaries. Both tasks which joint bodies coordinate and tasks which they implement should be included.

- 
- Exchange of information on existing and planned uses of water and related installations
  - Settling of differences and conflicts
  - Consultations on planned measures
  - Exchange of information on best available technology
  - Participation in transboundary EIA
  - Development of river, lake or aquifer basin management or action plans
  - Management of shared infrastructure
  - Addressing hydromorphological alterations
  - Climate change adaptation
  - Joint communication strategy
  - Basin-wide or joint public participation and consultation of, for example, basin management plans
  - Joint resources to support transboundary cooperation
  - Capacity-building
  - Any other tasks (*please list*): [fill in]

(h) What are the main difficulties and challenges that your country faces with the operation of the joint body or mechanism, if any?

- Governance issues

*Please describe, if any:* Internal re-organisations of the water management

- Unexpected planning delays

*Please describe, if any:* [due to the non availability of the funds]

- Lack of resources

*Please describe, if true:* [no separate budget ]

- Lack of mechanism for implementing measures

*Please describe, if true:* no enforcement

- Lack of effective measures

*Please describe, if true:* [due to the missing financing, measures are not implemented]

- Unexpected extreme events

*Please describe, if any:* [economic difficulties, political instability]

- Lack of information and reliable forecasts

*Please describe, if any:* [caused by missing financing]

Others (*please list and describe, as appropriate*): [fill in]

(i) Does the joint body or mechanism, or its subsidiary bodies meet regularly?

Yes /No

If yes, how frequently does it meet?

More than once per year

Once per year

Less than once per year

(j) What are the main achievements with regards to the joint body or mechanism? **effective water management, joint projects**

(k) Did the joint body or mechanism ever invite a non-riparian coastal State to cooperate?

Yes /No

*If yes, please give details. If no, why not, e.g. are the relevant coastal States also riparian States and therefore already members of the joint body or mechanism? [it is a bilateral cooperation, Romania sharing the basin but not invited, as we have a separate bilateral cooperation ]*

4. Have joint objectives, a common strategy, a joint or coordinated management plan or action plan been agreed for the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide further details: **Joint flood protection development program since 2013, not implemented fully, Danube RiverBasin Management Plan 2015, Danube Flood Risk Management Plan 2015***

5. How is the transboundary basin,–sub-basin, part of a basins or group of basins protected, including the protection of ecosystems, in the context of sustainable and rational water use?

Regulation of urbanization, deforestation, and sand and gravel extraction.

Environmental flow norms, including consideration of levels and seasonality

Water quality protection, e.g. nitrates, pesticides, faecal coliforms, heavy metals

Water-related species and habitats protection

Other measures (*please describe*): [fill in]

6. (a) Does your country regularly exchange information and data with other riparian States in the basin, sub-basin, part of a basin or group of basins?

Yes /No

(b) If yes, how often:

More than once per year

Once per year

Less than once per year

(c) Please describe how information is exchanged (e.g. in connection with meetings of joint bodies):

---

for other countries done by ICPDR and upon request, covering all environment data publically available

(d) If yes, on what subjects are information and data exchanged?

- |  |                                     |
|--|-------------------------------------|
| Environmental conditions   | <input type="checkbox"/>            |
| Research activities and application of best available techniques                       | <input checked="" type="checkbox"/> |
| Emission monitoring data   | <input type="checkbox"/>            |
| Planned measures taken to prevent, control or reduce transboundary impacts             | <input checked="" type="checkbox"/> |
| Point source pollution sources   | <input type="checkbox"/>            |
| Diffuse pollution sources  | <input type="checkbox"/>            |
| Existing hydromorphological alterations (dams, etc.)                                   | <input checked="" type="checkbox"/> |
| Flows or water levels (including groundwater levels)                                   | <input checked="" type="checkbox"/> |
| Water abstractions   | <input type="checkbox"/>            |
| Climatological information   | <input type="checkbox"/>            |
| Future planned measures with transboundary impacts, such as infrastructure development | <input checked="" type="checkbox"/> |

Other subjects (*please list*): **water body status**

Other comments, e.g. spatial coverage of data and information exchange: [fill in]

(e) Is there a shared database or information platform?

Yes /No  Joint flood forecasting system

(f) Is the database publicly available?

Yes /No

*If yes, please provide the web address:* [fill in]

(g) What are the main difficulties and challenges to data exchange, if applicable?

- |   |                                     |
|---|-------------------------------------|
| Frequency of exchanges                            | <input type="checkbox"/>            |
| Timing of exchanges                               | <input type="checkbox"/>            |
| Comparability of data and information             | <input checked="" type="checkbox"/> |
| Limited spatial coverage                          | <input type="checkbox"/>            |
| Inadequate resources (technical and/or financial) | <input checked="" type="checkbox"/> |

Other (*please describe*): [fill in]

Additional comments: [fill in]

(h) What are the main benefits of data exchange on the basin, sub-basin, part of a basin or group of basins? (*please describe*): early flood warning

7. Do the riparian States carry out joint monitoring in the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

(a) If yes, what does the joint monitoring cover?



	<i>Hydrological</i>	<i>Ecological</i>	<i>Chemical</i>
Border surface waters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in the entire basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters on the main watercourse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters in part of the basin please describe [fill in]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transboundary aquifer(s) (connected or unconnected)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aquifer(s) in the territory of one riparian hydraulically connected to a transboundary river or lake	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

(b) If joint monitoring is carried out, how is this done?

National monitoring stations connected through a network or common stations

*Please describe:* [fill in]

Joint and agreed methodologies

*Please describe:* [agreed by the expert group]

Joint sampling

*Please describe:* [monthly joint sampling]

Common monitoring network

*Please describe:* [fill in]

Common agreed parameters

*Please describe:* [agreed by the expert group]

(c) Please describe the main achievements regarding joint monitoring, if any: **Real time monitoring results are available**

(d) Please describe any difficulties experienced with joint monitoring: **lack of resources**

8. Do the riparian States carry out joint assessment of the transboundary basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, please provide the date of the last or only assessment, the frequency and scope (e.g., surface waters or groundwaters only, pollution sources, etc.) of the assessment, and assessment methodology applied:*

**At the regular meetings of the subcommission, expert group, yearly**

9. Have the riparian States agreed to use joint water quality standards?

Yes /No

---

*If yes, what standards have been applied, e.g. international or regional standards (please specify which), or have national standards of the riparian States been applied? **Water Framework Directive (for Ukraine on voluntary base), National Standards***

10. What are the measures implemented to prevent or limit the transboundary impact of accidental pollution?

Notification and communication

Coordinated or joint early warning or alarm system for accidental water pollution

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

11. What are the measures implemented to prevent or limit the transboundary impact of extreme weather events and climate change?

Notification and communication

Coordinated or joint alarm system for floods

Coordinated or joint alarm system for droughts

Joint climate change adaptation strategy

Joint disaster risk reduction strategy

Other (*please list*): [fill in]

No measures

*If not, why not? What difficulties does your country face in putting in place such measures?:* [fill in]

12. Are procedures in place for mutual assistance in case of a critical situation?

Yes /No

*If yes, please provide a brief summary: **between local water management bodies and disaster management units***

13. Are the public or relevant stakeholders involved in transboundary water management in the basin, sub-basin, part of a basin or group of basins?

Yes /No

*If yes, how? (please tick all applicable)*

Stakeholders have observer status in a joint body or mechanism

Stakeholders have an advisory role in the joint body

Stakeholders have a decision-making role in the joint body

*If yes, please specify the stakeholders for the joint body or mechanism:* [fill in]

Intergovernmental organizations

Private sectors organizations or associations

- Water user groups or associations
- Academic or research institutions
- Other non-governmental organizations
- General public
- Other (please specify): [fill in]
- Availability of information to the public
- Consultation on planned measures or river basin management plans<sup>4</sup>
- Public involvement
- Other (*please specify*): public participation based on WFD

**Please remember to complete section II for each of the transboundary basins, sub-basin, part of a basin or group of basins. Please also remember to attach copies of agreements or arrangements, if any.**

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<sup>4</sup> Or, where applicable, aquifer management plans.

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Please briefly describe the process by which the questionnaire was completed: consultation on national level, consultation with neighbouring countries

4. If you have any other comments please add them here (*insert comments*): [fill in]
5. Name and contact details of the person(s) who filled out the questionnaire (*please insert*):

**Péter Kovács**  
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Date: 19/06/2020 (initial submission);  
05/11/2020 (final revised submission)



Signature:

Thank you very much for taking the time to complete this report.

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