

# DANUBE RIVER BASIN MANAGEMENT PLAN

UPDATE 2021

## ANNEX 16

Progress on Measures Addressing  
Hydromorphological Alterations

**ICPDR** **IKSD**

International Commission  
for the Protection  
of the Danube River  
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Internationale Kommission  
zum Schutz der Donau



This Annex includes information on progress in measures implementation for the following hydromorphological alterations for each country and on the basin-wide scale:

- Hydrological alterations – Impoundments
- Hydrological alterations – Water abstractions
- Hydrological alterations – Hydropeaking
- Interruptions of river and habitat continuity
- Morphological alterations – River morphology
- Morphological alterations – Disconnection of adjacent floodplains / wetlands

It provides further detailed information on data already provided in the JPM Chapter 8.1.5 of the DRBM Plan – Update 2021.

For particular measures involving construction or building works (e.g. a fish pass, a river restoration project, etc.), the following status-classes were reported, whereby the implementation status refers to the status expected at the end of 2021.

- **Not started** means the technical and/or administrative procedures necessary for starting the construction or building works have not started.
- **Planning on-going** means that administrative procedures necessary for starting the construction or building works have started but are not finalised. The simple inclusion in the RBMPs is not considered as planning in this context.
- **Construction on-going** means the construction or building works have started but are not finalised.
- **Completed** means the works have been finalised and the facilities are operational (maybe only in testing period in case e.g. a waste water treatment plant).

### Explanations for table

JPM = Joint Program of Measures

DRBM = Danube River Basin Management

## 1 Hydrological alterations - impoundments

Measures on impoundments										
COUNTRY	NUMBER OF IMPOUNDMENTS TO BE IMPROVED BY 2021		IMPLEMENTATION STATUS (reference to measures as agreed on national level)							
	As indicated in the JPM of the 2nd DRBM Plan	Updated information as agreed on national level	Not started		Planning on-going		Construction on-going		Completed	
			[No.]	[%]	[No.]	[%]	[No.]	[%]	[No.]	[%]
DE	1	1	0	0	0	0	0	0	1	100
AT	36	29	22	76	2	7	1	3	4	14
CZ	0	0	0	0	0	0	0	0	0	0
SK	0	0	0	0	0	0	0	0	0	0
HU	1	1	0	0	0	0	0	0	1	100
SI	0	0	0	0	0	0	0	0	0	0
HR	0	0	0	0	0	0	0	0	0	0
BA	0	0	0	0	0	0	0	0	0	0
ME	0	0	0	0	0	0	0	0	0	0
RS	0	0	0	0	0	0	0	0	0	0
RO	3	1	0	0	0	0	0	0	4	100
BG	0	0	0	0	0	0	0	0	0	0
MD	0	0	0	0	0	0	0	0	0	0
UA	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>41</b>	<b>32</b>	<b>22</b>	<b>63</b>	<b>2</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>10</b>	<b>29</b>

## 2 Hydrological alterations – water abstractions

Measures on water abstractions										
COUNTRY	NUMBER OF WATER ABSTRACTIONS TO BE IMPROVED BY 2021		IMPLEMENTATION STATUS (reference to measures as agreed on national level)							
	As indicated in the 2nd DRBM Plan	Updated information as agreed on national level	Not started		Planning on-going		Implementation on-going		Completed	
			[No.]	[%]	[No.]	[%]	[No.]	[%]	[No.]	[%]
DE	8	8	0	0	4	50	3	37,5	1	12,5
AT	13	8	1	13	6	75	0	0	1	13
CZ	0	0	0	0	0	0	0	0	0	0
SK	0	0	0	0	0	0	0	0	0	0
HU	0	0	0	0	0	0	0	0	0	0
SI	0	0	0	0	0	0	0	0	0	0
HR	0	0	0	0	0	0	0	0	0	0
BA	0	0	0	0	0	0	0	0	0	0
ME	0	0	0	0	0	0	0	0	0	0
RS	0	0	0	0	0	0	0	0	0	0
RO	1	2	0	0	1	50	0	0	1	50
BG	0	0	0	0	0	0	0	0	0	0
MD	0	0	0	0	0	0	0	0	0	0
UA	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>22</b>	<b>18</b>	<b>1</b>	<b>6</b>	<b>11</b>	<b>61</b>	<b>3</b>	<b>17</b>	<b>3</b>	<b>17</b>

### 3 Hydrological alterations – hydropeaking

Measures on hydropeaking										
COUNTRY	NUMBER OF HYDROPEAKING SECTIONS TO BE IMPROVED BY 2021		IMPLEMENTATION STATUS (reference to measures as agreed on national level)							
	As indicated in the 2nd DRBM Plan	Updated information as agreed on national level	Not started		Planning on-going		Implementation on-going		Completed	
			[No.]	[%]	[No.]	[%]	[No.]	[%]	[No.]	[%]
DE	4	4	0	0	2	50	1	25	1	25
AT	0	0	0	0	0	0	0	0	0	0
CZ	0	0	0	0	0	0	0	0	0	0
SK	0	0	0	0	0	0	0	0	0	0
HU	0	0	0	0	0	0	0	0	0	0
SI	0	0	0	0	0	0	0	0	0	0
HR	0	0	0	0	0	0	0	0	0	0
BA	0	0	0	0	0	0	0	0	0	0
ME	0	0	0	0	0	0	0	0	0	0
RS	0	0	0	0	0	0	0	0	0	0
RO	0	0	0	0	0	0	0	0	0	0
BG	0	0	0	0	0	0	0	0	0	0
MD	0	0	0	0	0	0	0	0	0	0
UA	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>50</b>	<b>1</b>	<b>25</b>	<b>1</b>	<b>25</b>

### 4 Interruptions of river and habitat continuity

Measures on restoration of river continuity for fish migration										
COUNTRY	NUMBER OF MEASURES TO BE IMPLEMENTED BY 2021		IMPLEMENTATION STATUS (reference to measures as agreed on national level)							
	As indicated in the 2nd DRBM Plan	Updated information as agreed on national level	Not started		Planning on-going		Construction on-going		Completed	
			[No.]	[%]	[No.]	[%]	[No.]	[%]	[No.]	[%]
DE	22	22	0	0	14	64	0	0	8	36
AT	85	43	28	65	4	9	3	7	8	19
CZ	8	8	0	0	0	0	0	0	8	100
SK	19	41	0	0	22	54	2	5	17	41
HU	8	9	6	66	2	22	0	0	1	11
SI	0	0	0	0	0	0	0	0	0	0
HR	0	0	0	0	0	0	0	0	0	0
BA	0	0	0	0	0	0	0	0	0	0
ME	0	0	0	0	0	0	0	0	0	0
RS	1	1	0	0	0	0	0	0	1	100
RO	5	7	2	29	3	43	0	0	2	29
BG	10	8	1	13	2	25	3	38	2	25
MD	0	0	0	0	0	0	0	0	0	0
UA	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>158</b>	<b>139</b>	<b>37</b>	<b>27</b>	<b>47</b>	<b>34</b>	<b>8</b>	<b>6</b>	<b>47</b>	<b>34</b>

## 5 Morphological alterations – river morphology

Measures for improvement of river morphology										
COUNTRY	NUMBER OF MEASURES TO BE IMPLEMENTED BY 2021		IMPLEMENTATION STATUS (reference to measures as agreed on national level)							
	As indicated the 2nd DRBM Plan	Updated information as agreed on national level	Not started		Planning on-going		Construction on-going		Completed	
			[No.]	[%]	[No.]	[%]	[No.]	[%]	[No.]	[%]
DE	40	40	2 <sup>1</sup>	5	4	10	21	52,5	13	32,5
AT	25	17	3	18	0	0	0	0	14	82
CZ	7	7	0	0	6	86	0	0	1	14
SK	0	0	0	0	0	0	0	0	0	0
HU	37	37	37	100	0	0	0	0	0	0
SI	0	0	0	0	0	0	0	0	0	0
HR	0	0	0	0	0	0	0	0	0	0
BA	0	0	0	0	0	0	0	0	0	0
ME	0	0	0	0	0	0	0	0	0	0
RS	0	0	0	0	0	0	0	0	0	0
RO	2	1	3 <sup>1)2)</sup>	100	0	0	0	0	0	0
BG	3	3	0	0	3	100	0	0	0	0
MD	0	0	0	0	0	0	0	0	0	0
UA	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>114</b>	<b>105</b>	<b>42</b>	<b>40</b>	<b>13</b>	<b>13</b>	<b>21</b>	<b>20</b>	<b>28</b>	<b>27</b>

<sup>1</sup> Measures were no longer necessary as good ecological potential was already reached.

<sup>2</sup> Conflicts with land reclamation owners due to technical solutions proposed

## 6 Morphological alterations – disconnection of floodplains/wetlands

Measures on disconnected adjacent floodplains / wetlands - AREA												
COUNTRY	AREA OF FLOODPLAINS / WETLANDS TO BE ADDRESSED BY MEASURES UNTIL 2021		IMPLEMENTATION STATUS (reference to measures as agreed on national level)									
	As indicated in the 2nd DRBM Plan	Updated information as agreed on national level	Not started		Planning on-going		Construction on-going		Completed			
									partly re-connected		totally re-connected	
	[ha]		[ha]	[%]	[ha]	[%]	[ha]	[%]	[ha]	%	[ha]	%
DE	2,926	2,926	0	0	0	0	2,926	100	0	0	0	0
AT	9,554	9,554	0	0	0	0	1,600	17	7,954	83	0	0
CZ	0	0	0	0	0	0	0	0	0	0	0	0
SK	1,716	1,716	0	0	0	0	0	0	1,139	66	577	34
HU	0	0	0	0	0	0	0	0	0	0	0	0
SI	0	0	0	0	0	0	0	0	0	0	0	0
HR	0	0	0	0	0	0	0	0	0	0	0	0
BA	0	0	0	0	0	0	0	0	0	0	0	0
ME	0	0	0	0	0	0	0	0	0	0	0	0
RS	0	0	0	0	0	0	0	0	0	0	0	0
RO	2,650	5,615	0	0	5,615	100	0	0	0	0	0	0
BG	0	0	0	0	0	0	0	0	0	0	0	0
MD	0	0	0	0	0	0	0	0	0	0	0	0
UA	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>16,846</b>	<b>19,811</b>	<b>0</b>	<b>0</b>	<b>5,615</b>	<b>28</b>	<b>4,526</b>	<b>23</b>	<b>9,093</b>	<b>46</b>	<b>577</b>	<b>3</b>