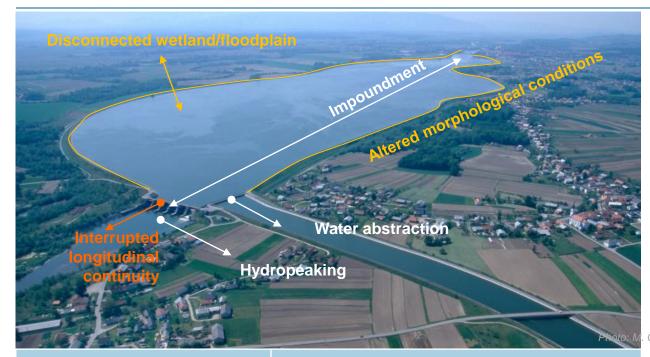
### Hydromorphological Alterations identified in DRBMP



International Commission for the Protection of the Danube River

Internationale Kommission zum Schutz der Donau



 Hydromorphological pressure
 Criteria for significant pressure assessment

 Impoundment
 Danube River: I > 10 km, Danube tributaries: I > 1 km

 Water abstraction
 Qres < 50% of Qmean annual minimum</td>

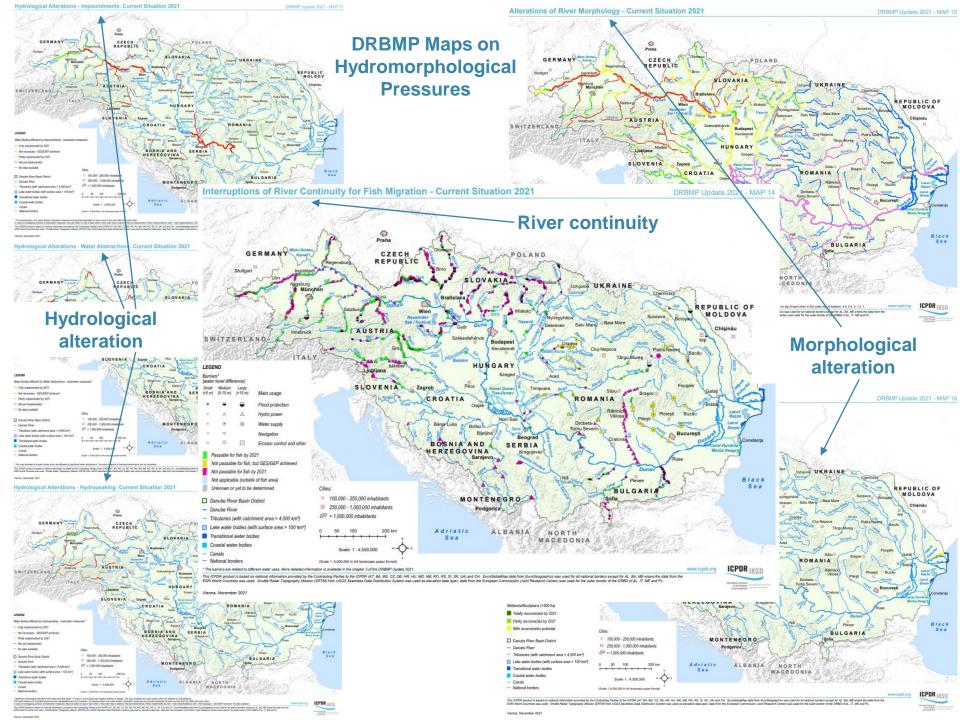
 Hydropeaking
 Δ h > 1 m/day (or less in case of neg. effects)

 Interruption of river continuity
 h > 0.7 m height (rhitral), h > 0.3 m (pothamal)

 Morphological alteration
 Morphological class ≥ 3 (moderately altered)

 Disconnected wetland/floodplain
 A > 500 ha (basin-wide importance, reconn. potential)

# identified Danube River Basin Management Plan Hydromorphological pressures



#### **Hydromorphological Measures** identified in DRBMP



for the Protection of the Danube River

zum Schutz der Donau

#### **HYMO MEASURES 2015-2021:**

- 14 measures addressing hydrological alterations (water abstractions, impoundments, hydropeaking),
- 47 fish migration aids,
- 28 river restoration projects
- nearly 10,000 ha of floodplains/wetlands have been partly or totally reconnected.

DRBMP Annex 19: Hydromorphological lighthouse projects

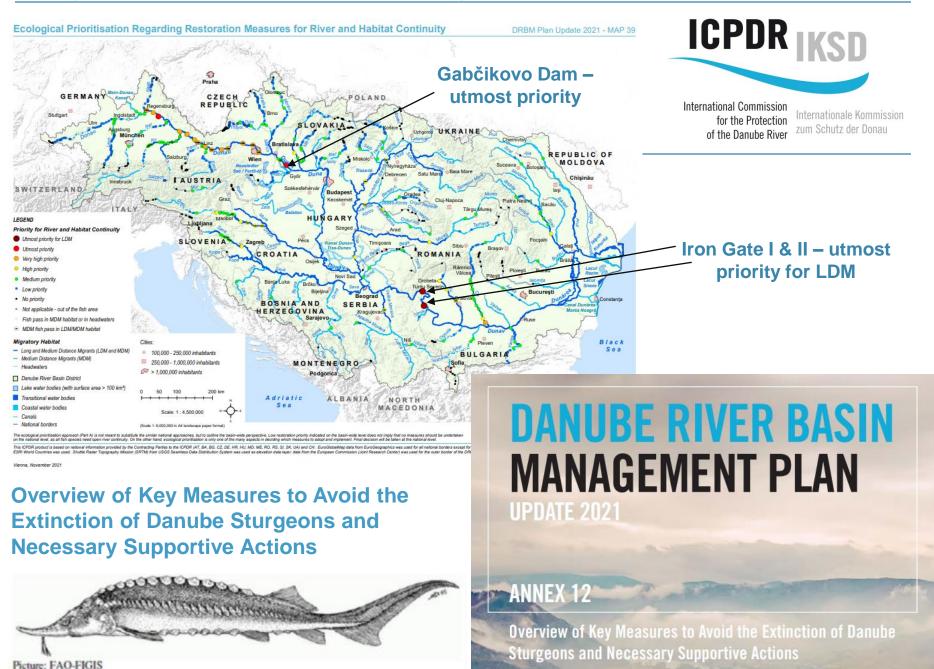
#### **HYMO MEASURES 2021-2027:**

- 204 measures related to improvements of impoundments, 46 to water abstractions, 32 to hydropeaking,
- 424 measures related to continuity interruptions,
- 222 measures related to morphological improvement,
- 23,399 ha foreseen for reconnection of floodplains/wetlands



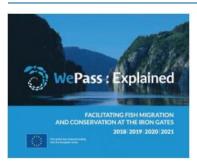


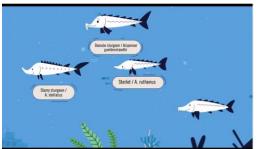
#### Ecological prioritisation approach – planning of priority fish passes on the DRB



## We pass I and We pass II LIFE boat 4 sturgeons







#### We Pass I (finalised 2021):

Database / Literature study on sturgeon migration behaviour / Migratory fish was caught, tagged, and released / Estimations of survival rate of migratory fish passing through turbines / Fish passes are technically feasible at the Iron Gate dams





#### We Pass II (2021-2024):

Fish monitoring / modelling / Identification of migration options / Preliminary design and costs estimation







#### LIFE boat 4 sturgeons (2022-2029):

Construction & operation of two ex situ facilities / Creation of a genetic autochthonous and diverse broodstock / reproduction, rearing & release / standardized population monitoring