

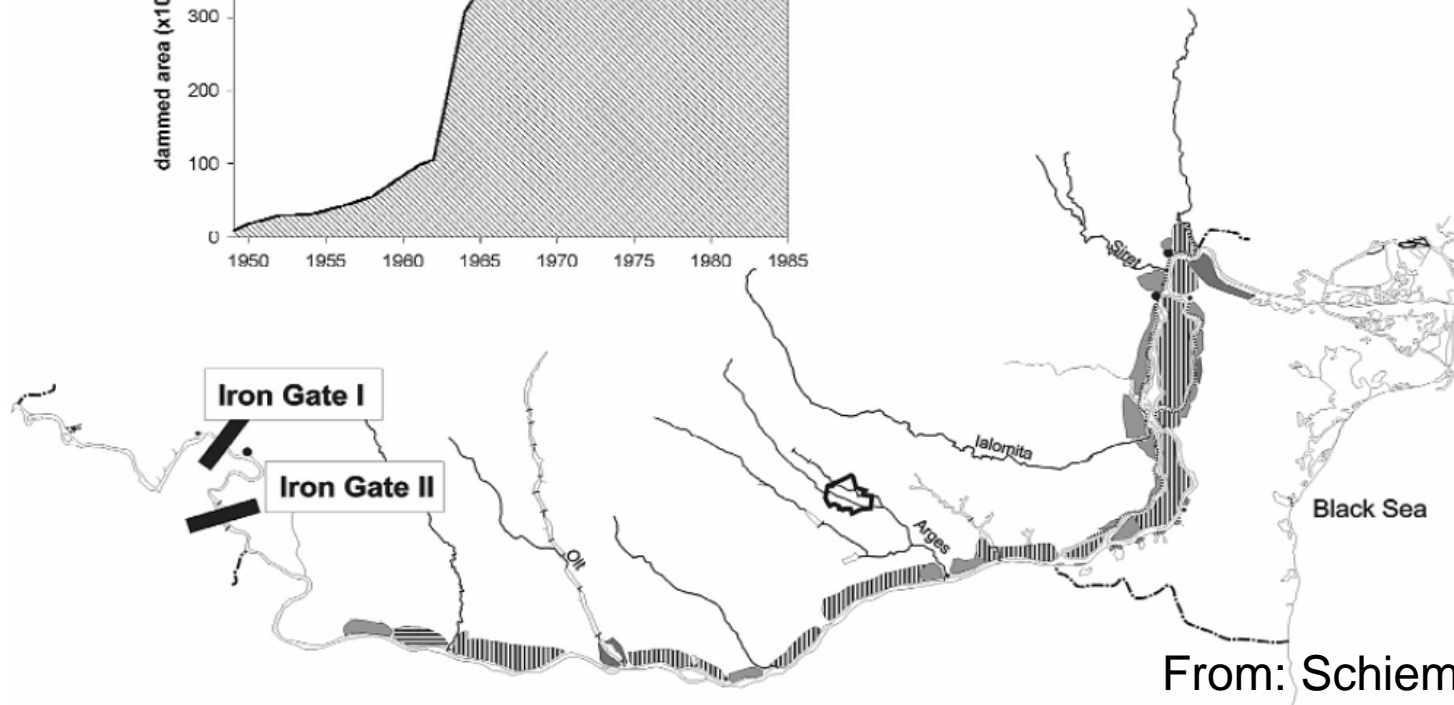
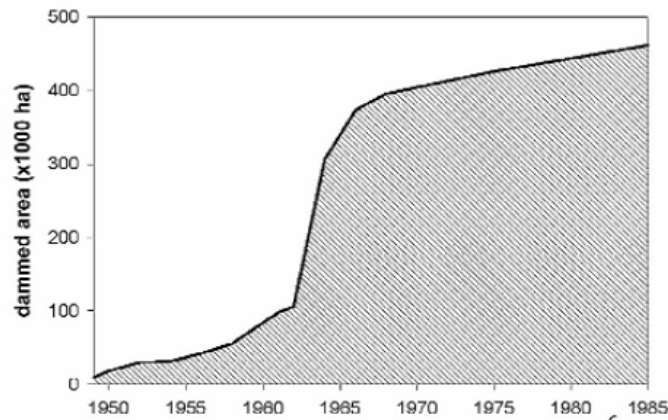


Ecological restoration of Fundu Mare Island

Anders Foldvik

Floodplains of the Danube

Damming period



From: Schiemer *et al.* 2004

Fish

- ▶ Romanian Danube 73 species
- ▶ Small Wetland of Brăila 60 species
- ▶ In and around Fundu Mare 33 species

Wetland

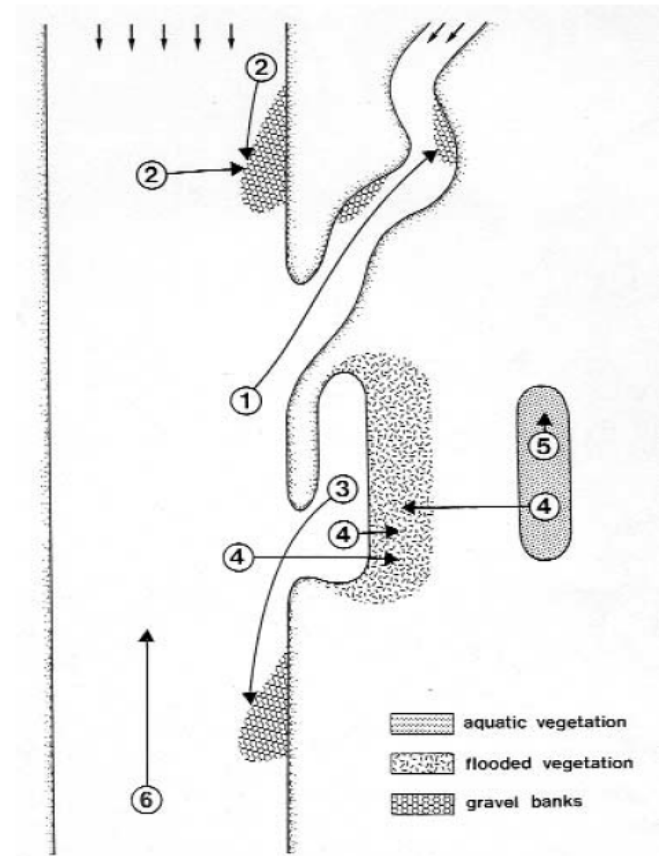


Dryland



Why are the floodplains important

- ▶ Spawning
- ▶ Habitat for juveniles
- ▶ Sediment
- ▶ Nutrients



Floodplains and fisheries

- ▶ Reduction of connectivity and total area of floodplains suggested as main drivers of the decline in the Lower Danube fisheries (Ciolac 2004; Schiemer *et al.* 2004)

Principles of restoration

- ▶ Restoration should be based on theoretical concept of river ecology.
- ▶ Restoration should be process- and ecosystem orientated instead of species-focused.
- ▶ Restoration should foster the hydrological and geomorphological function of the river.

So what to do?

- ▶ 1: Nothing
 - ▶ Consequences?
- ▶ 2: Weirs
 - ▶ + area
 - ▶ - connectivity
- ▶ 3: Channels
 - ▶ - area
 - ▶ + connectivity

