

Council

CNL(16)56

Atlantic Salmon in the Rhine - from being extinct to the master plan migratory fish (Presentation by Laura Gangi)





Laura Gangi IKSR – CIPR – ICBR - ICPR Expert Group FISH



Annual meeting of NASCO 7-10 June 2016, Bad Neuenahr-Ahrweiler



Internationale Kommission zum Schutz des Rheins

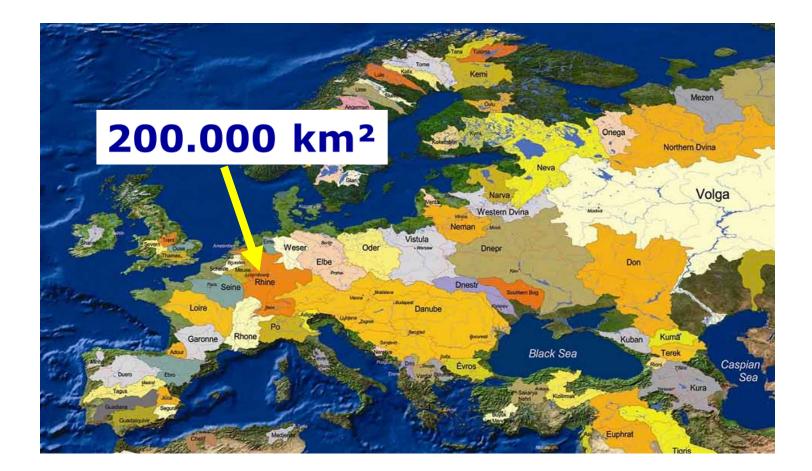
Commission Internationale pour la Protection du Rhin

Internationale Commissie ter Bescherming van de Rijn

International Commission for the Protection of the Rhine

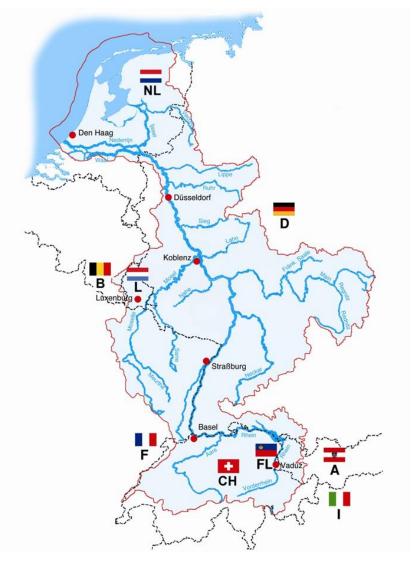
The Rhine river basin



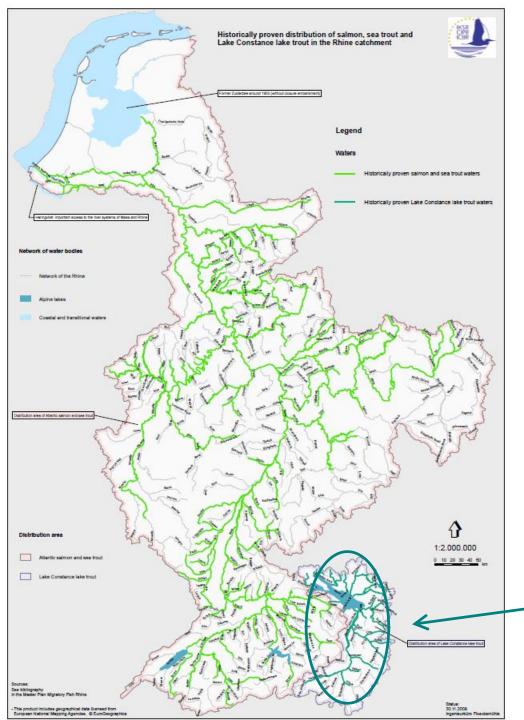


The Rhine river basin





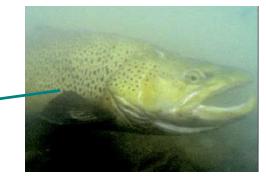
- Main stream: 1230 km
- navigable on 825 km
- 9 countries
- Inhabitants: 60 million
- Drinking water supply for 30 million people



Historical salmon waters in the Rhine river basin



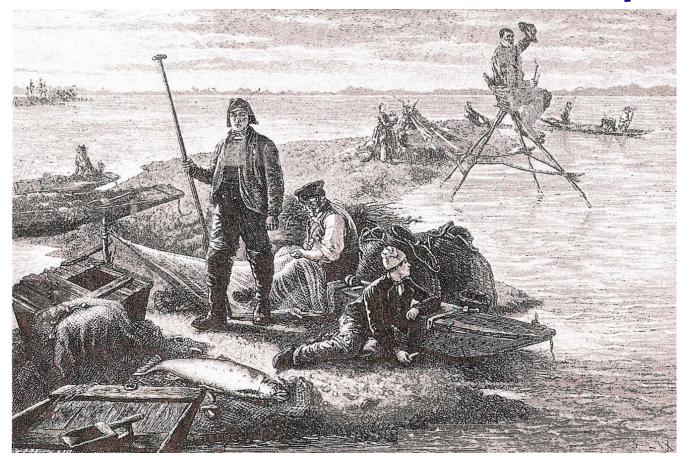
Natural barrier: waterfalls at Schaffhausen



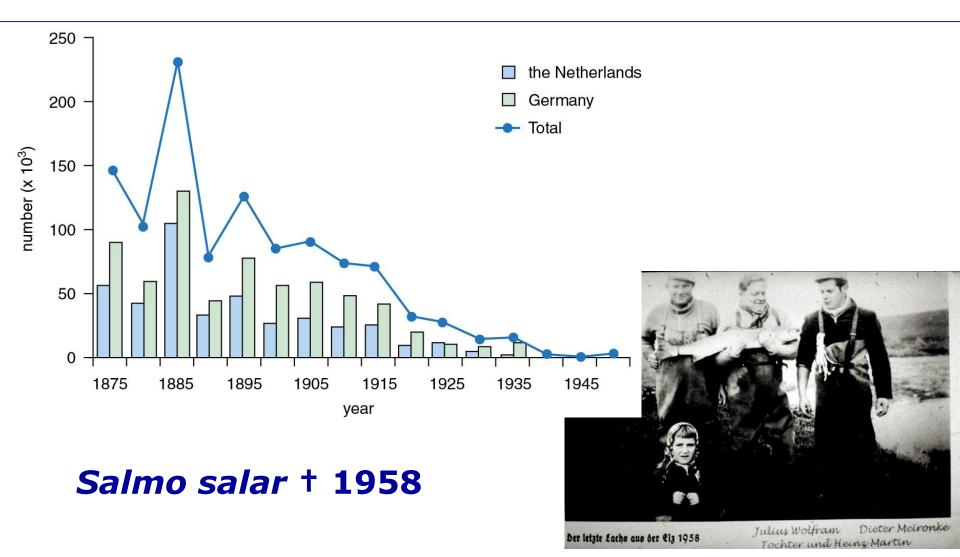
Lake Constance trout

Decline of the salmon population ... not a new issue!

1449 Straßburger Ordnung der Rheinfischerei
1885 International Salmon Treaty

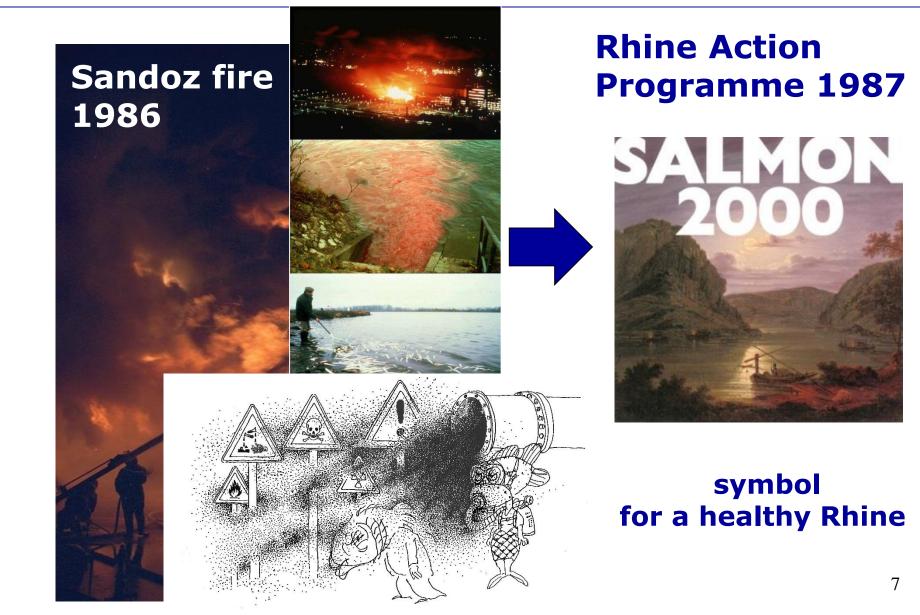


Decline of the salmon population



6

The Sandoz disaster – a turning point



ICPR programs for migratory fish



Master Plan Migratory Fish Rhine

<u>Goal</u>: self sustaining, stable populations of migratory fish in the Rhine catchment as far as Basel (CH)

Measures:

- River continuity in the program waters
- Restoration of habitats
- Stocking (i.a. salmon, allis shad)

Total costs: € 627 Mln (data December 2015)



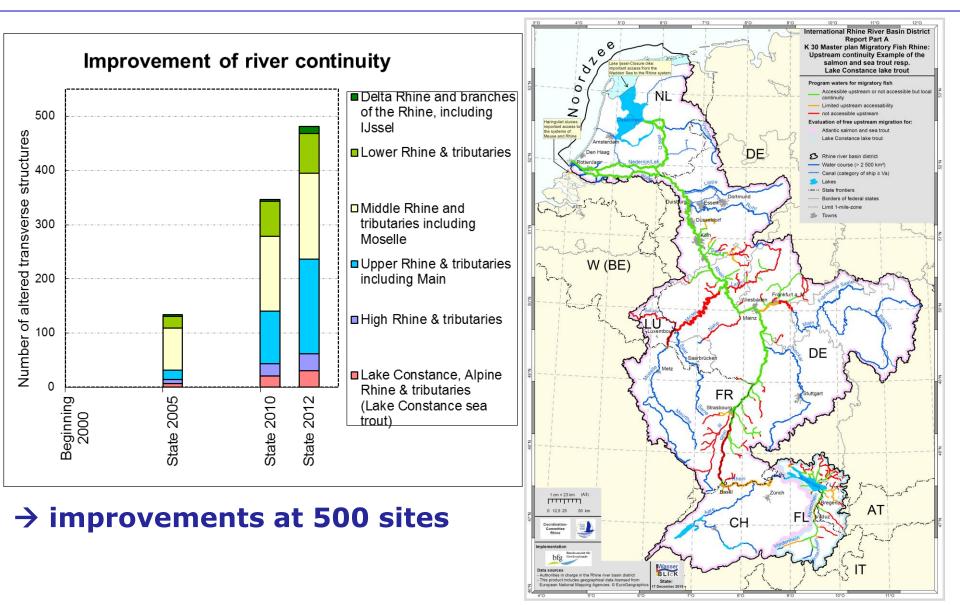






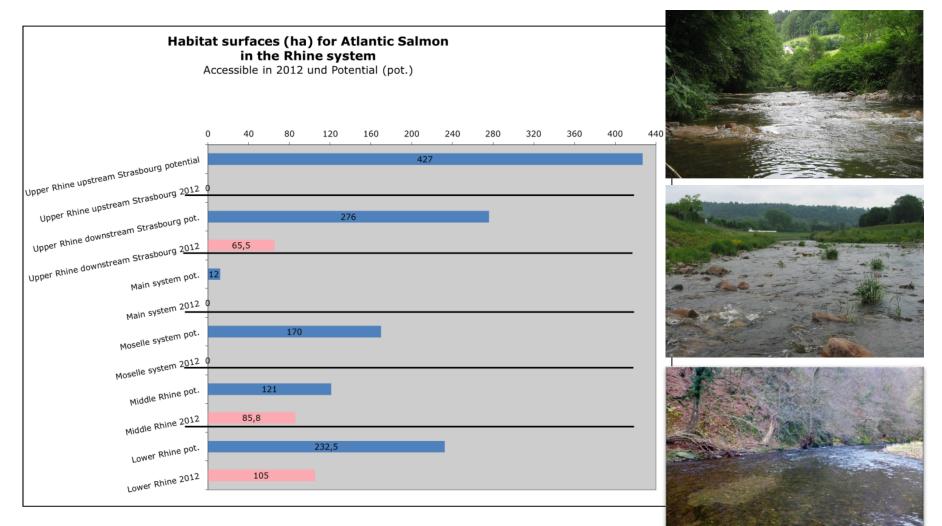


Restoration of river continuity



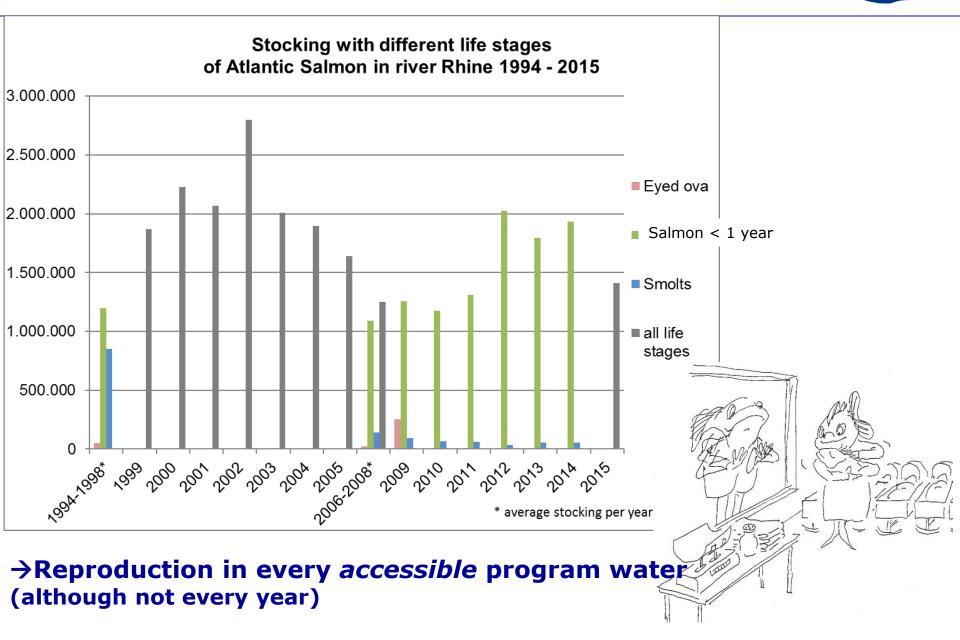
10

Habitat restoration

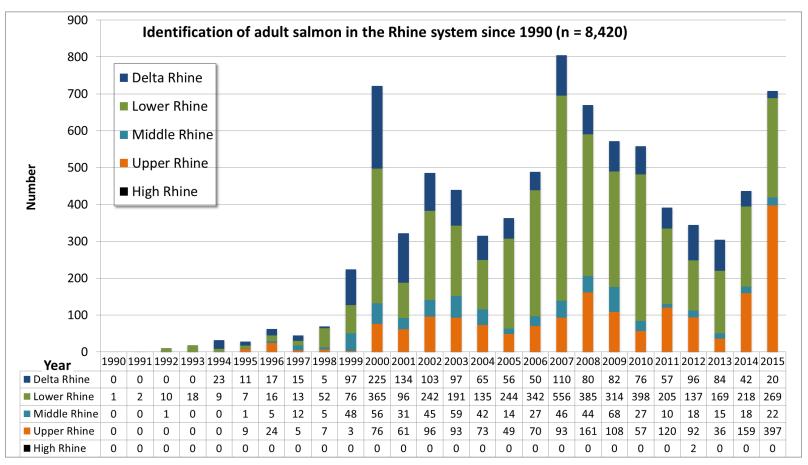


\rightarrow 21 % of the salmon habitats (1200 Ha) are accessible in 2015

Salmon stocking

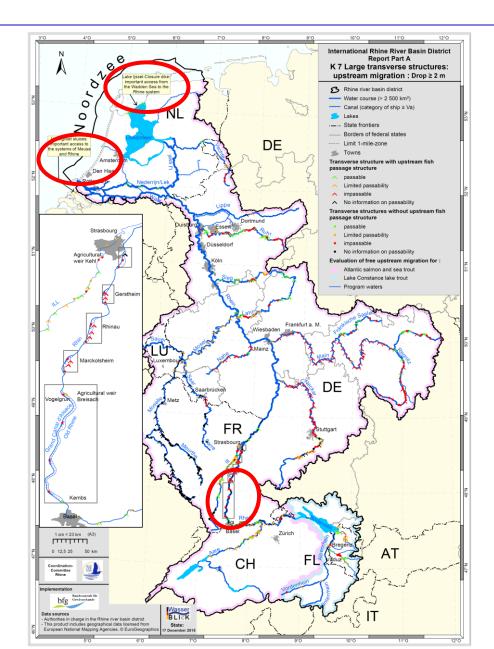


The comeback of Salmon in the Rhine



- since 2014 increasing number of returners
- 2015 number of counted salmon at control station Iffezheim
- Salmon is the symbol but other migratory fish (allis shad, houting) are on the rise as well
 13

Outlook: River continuity

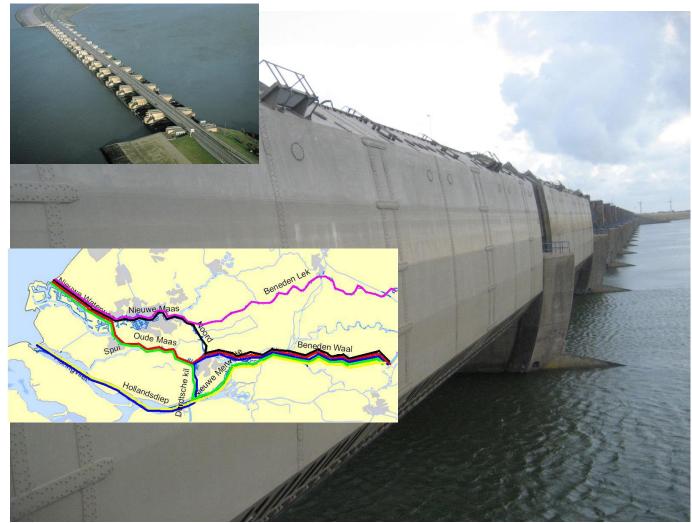


14

Outlook: Optimizing access to Rhine system



Partly opening of Haringvliet sluices in 2018

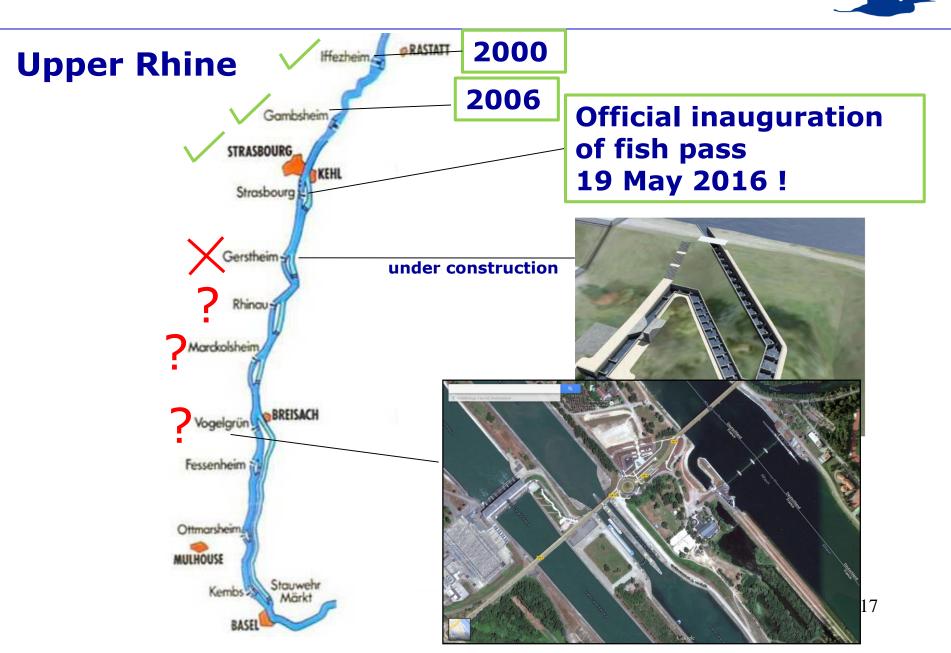


Outlook: Optimizing access to Rhine system

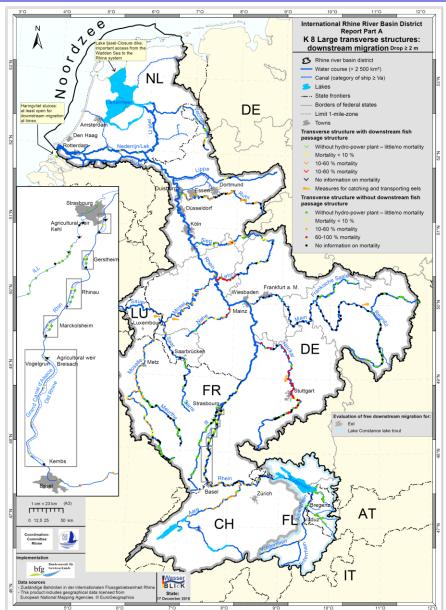




Outlook: Restoring river continuity



Outlook: Fish protection during downstream migration



International workshop on downstream fish migration 6-7 october 2016 in Roermond (NL)





laura.gangi@iksr.de

www.iksr.org