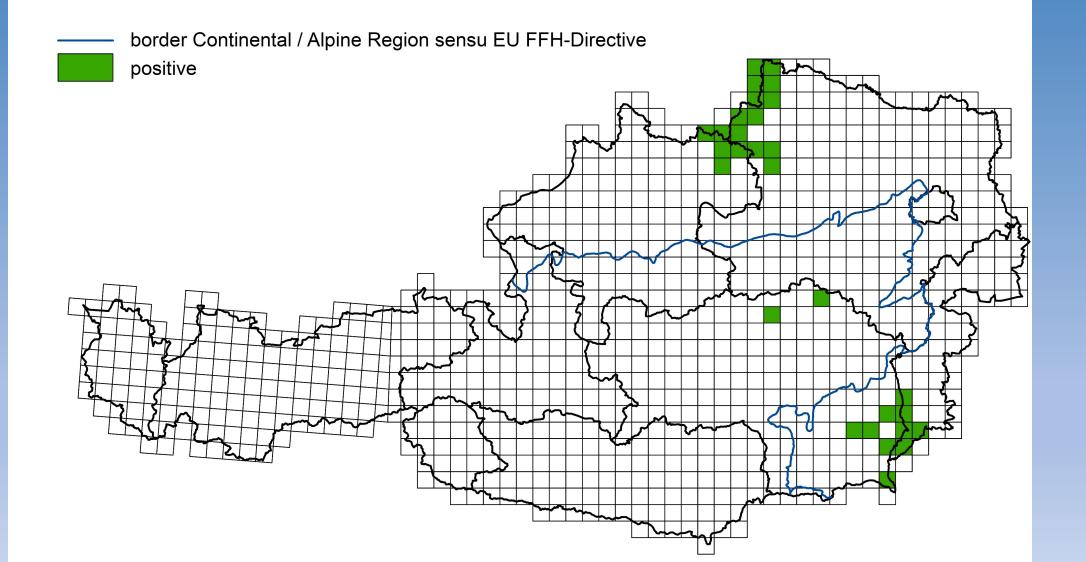


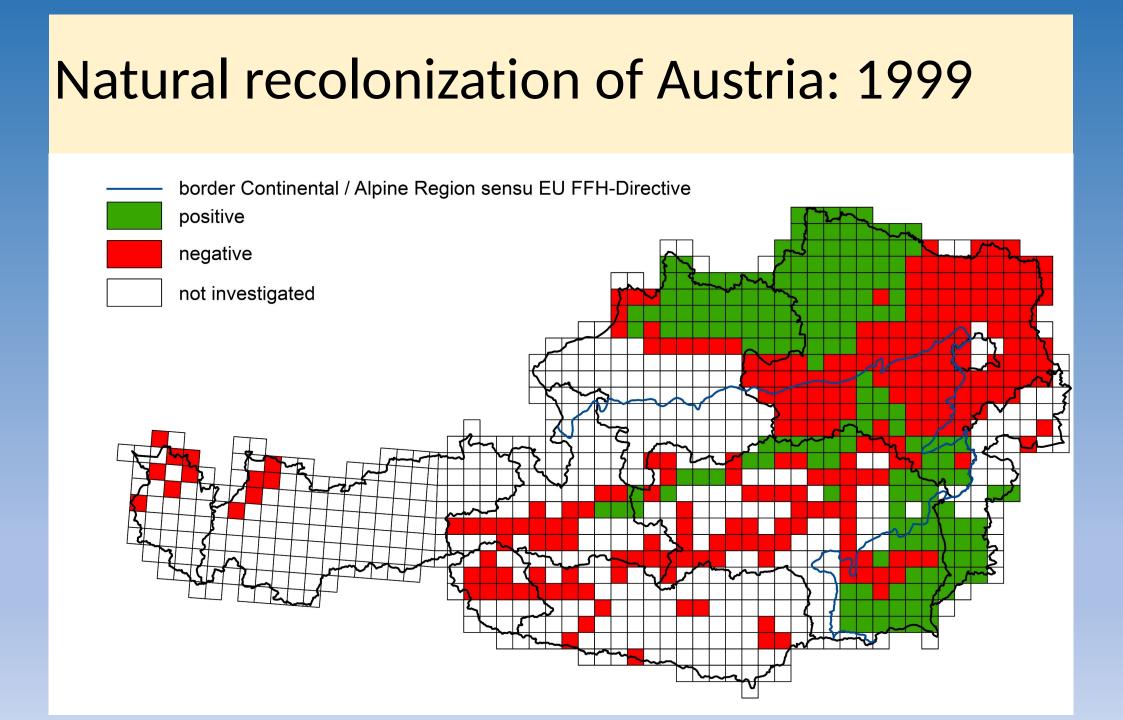
OTTER FISHING CONFLICTS THE CASE OF AUSTRIA

Andreas Kranz IUCN OSG Conflict Resolution Task Force

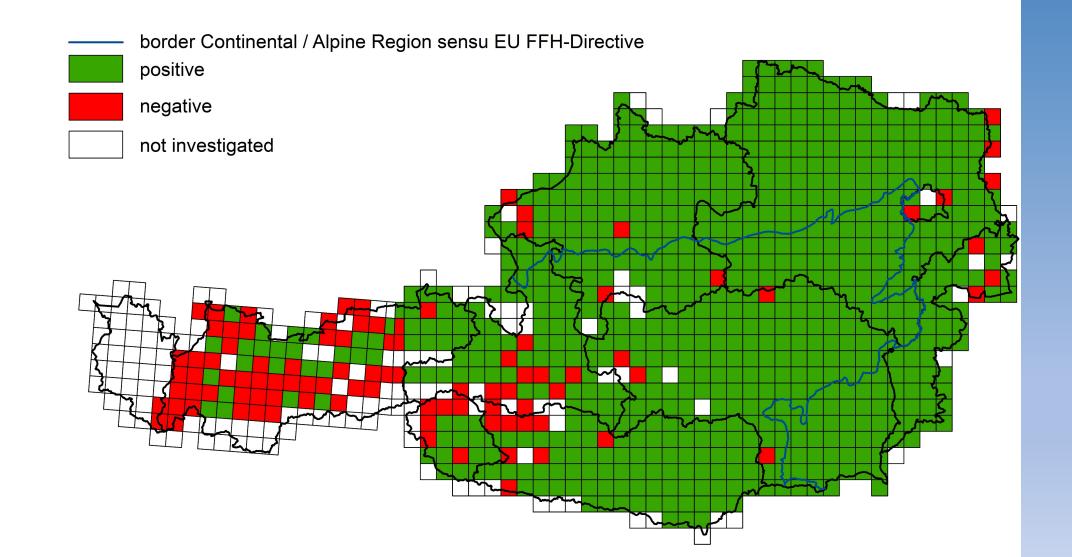


### Natural recolonization of Austria: 1986

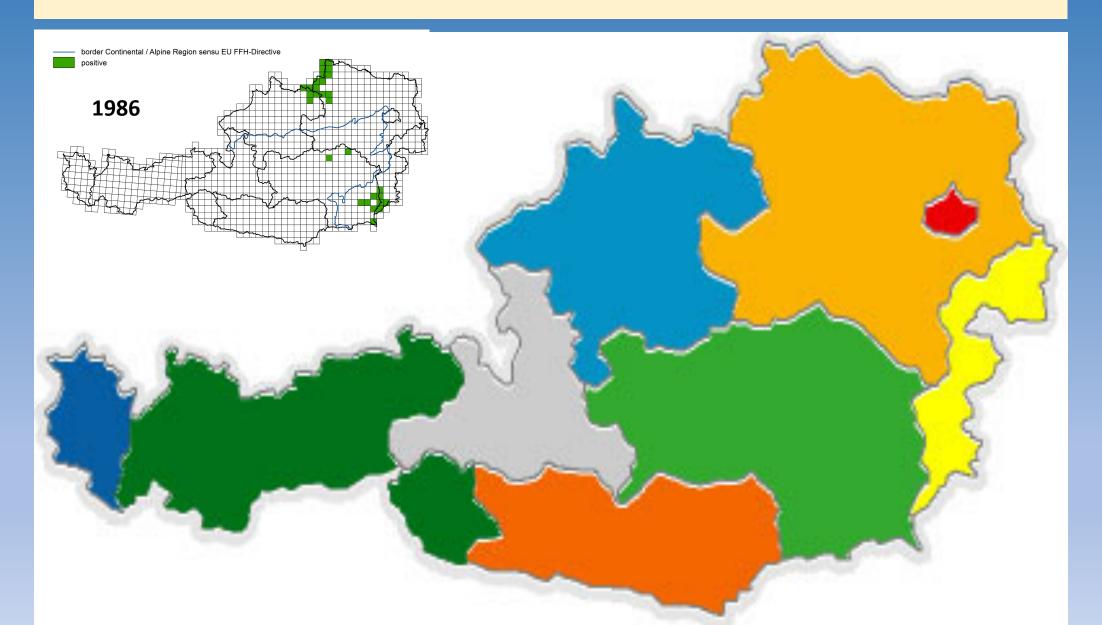




# Natural recolonization of Austria: 2020



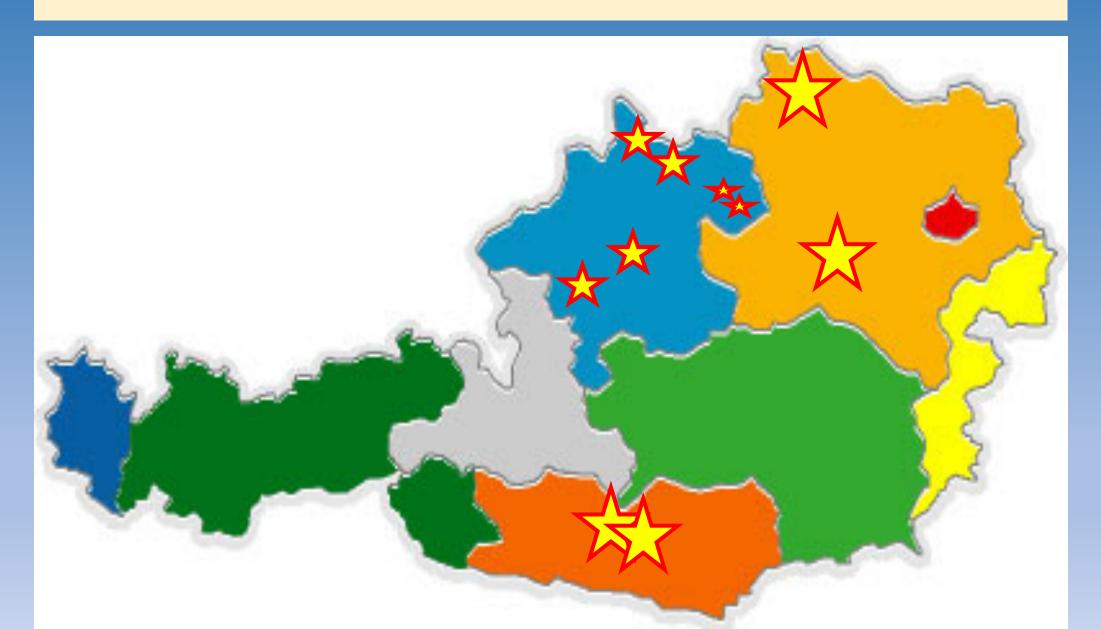
#### Federal States of Austria (86.000 km<sup>2</sup>)



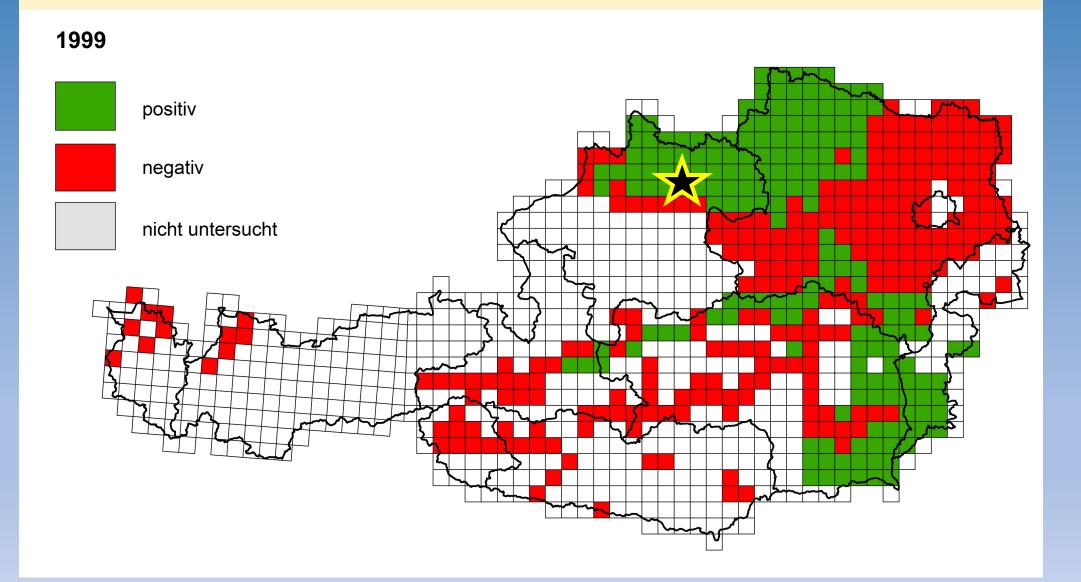
### Otter entering the fish pond

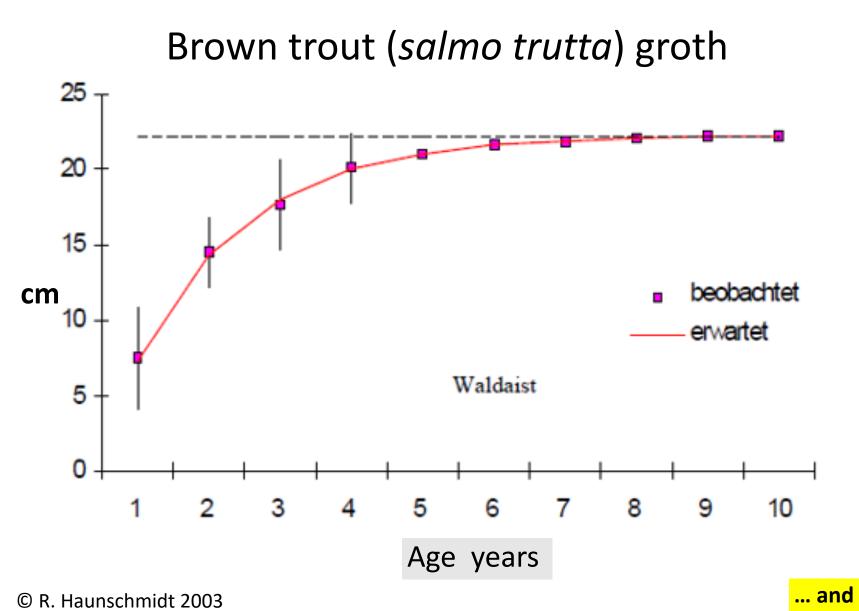


#### Culling of otters (2017 - 2021)



# 2001 first attempt to get licences to kill o.





... and 15 years later ....

#### ... and 15 years later: 2018 (Upper Austria)

- Trout biomass did not improve, but reproduce well, many joung
- Otters are still there in "high" numbers
- Otters heavily predate on non-native crayfish, which recently arrived there
- Otter trout predation equals the standing crop of trout
- In spring <u>no trout larger 22 cm</u> are left to catch for anglers: inacceptable
- Otter removal experiment 2018 -2021 was inevitable

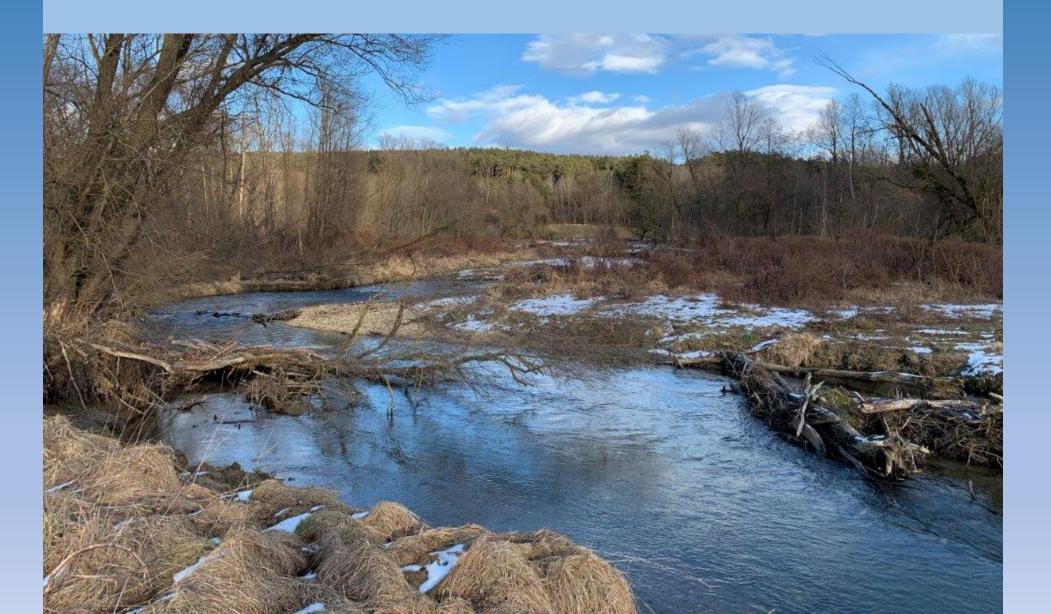
#### **Development of biomass in** 3 trout streams in Carinthia from 1990 - 2019 Coloni sation by kg/ha otters Mosinz Görtschitz Lölling



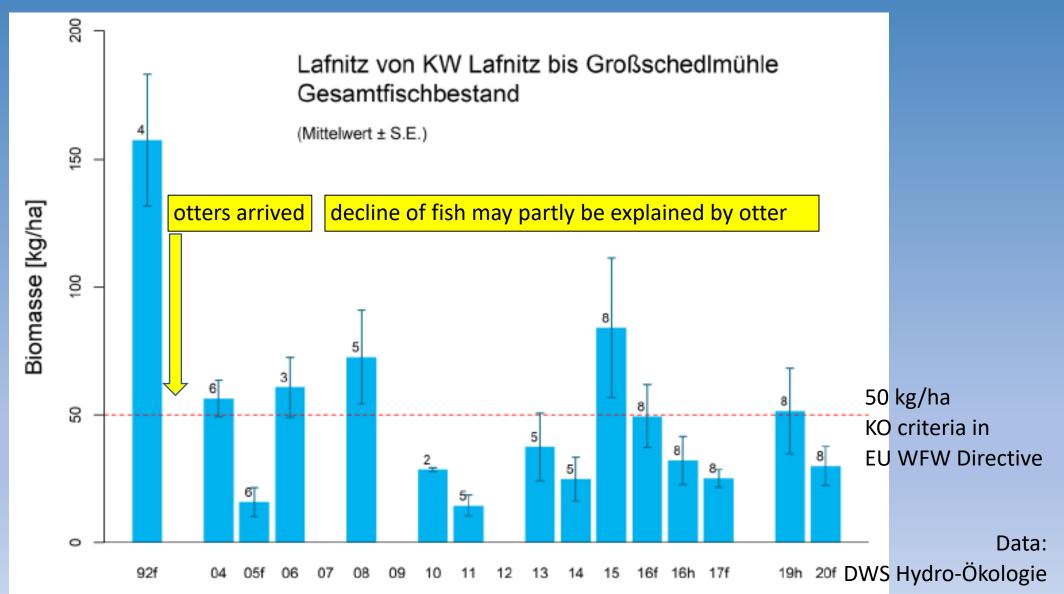




#### Grayling (Thymallus thymallus) River Lafnitz



#### Development of biomass in a grayling-trout river from 1992 - 2020



#### Drastic decline of ...

... fish in trout and grayling rivers, why ...

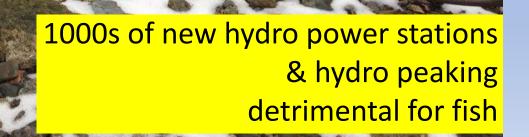
#### Reasons for fish decline in trout/grayling river

- Lack of nutrition (water purification effect)
- Decline of food for fish (decline of insects, macrozoobenthos)
- Problems with reproduction (spawning grounds, pollution?)
- Fish deseases (PKD spreading du to fish stocking & water temp. increase (climate change))
- Predation by otters, etc.

# Fish decrease due to splashing reservoirs



# Fish decrease due to the second second



#### Lessons learnt from Austria:

✓ Conficts at fish farms (ponds) can be handled and solved

 Conflicts with anglers in rivers and streams are <u>not</u> <u>solved & alarming</u>, why ... ... because of lack of food Lutra lutra's future is on very thin ice at least on trout & grayling rivers

Thank you for your attention