

# Use of Recirculating Aquaculture Systems (RAS) for the better exploitation of freshwater resources

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## What is RAS?



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### Tilapia and catfish hatchery in Kenya

#### Atlantic salmon nursery in Norway



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### **Recent use of RAS in freshwater aquaculture**



- Producing Atlantic salmon smolt to stock marine cage farms
- ✓ Trout production in raceway RAS ("danish model farms")
- ✓ Supply high value fish for local, niche markets (eel, pike perch, exotic species etc.)
- ✓ Hatchery and nursery production of various species where the controlled environment during the early stage of the development is very important (tilapia)
- Research RAS units for feeding, breeding, vaccine development, technology research etc.



### **RAS possible role in traditional technologies**



#### Could be RAS integrated in the traditional common carp production (vertical integration)?



### **RAS possible role in traditional technologies**



#### RAS integrated with extensive or semi-intensive pond technology (horizontal integration)



## **Development trends in freshwater RAS**







### **Contact Details**





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