

Creating added value in RAS aquaculture through innovative technology integration



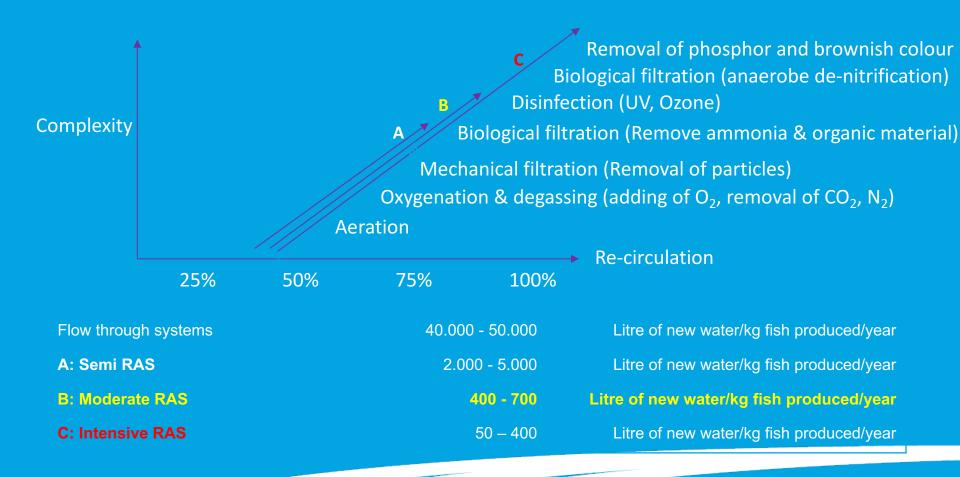




Aquaculture can be found all around the world. Most places it looks like this!

Degree of Re-circulation - by Increasing use of technologies





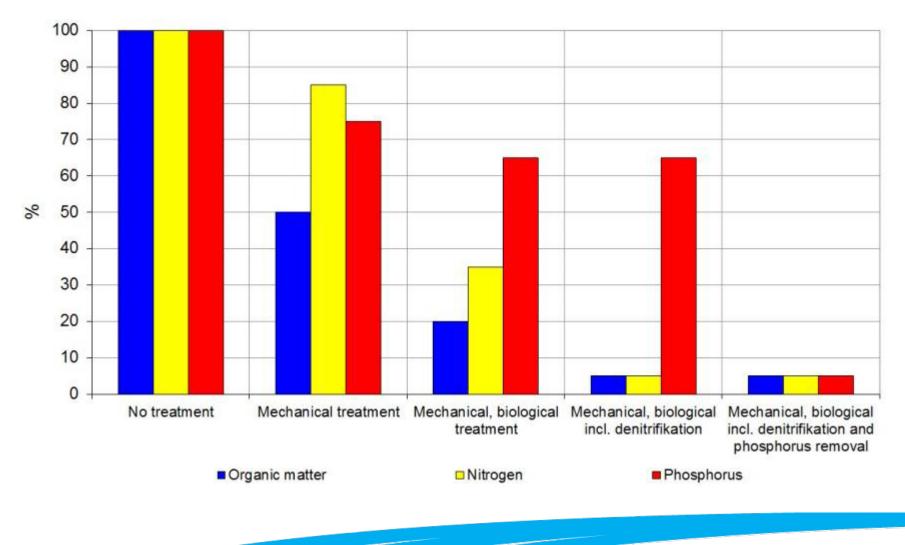
Definition of Re-Circulation



- Water exchange per amount of feed put into the system per day is the most accurate definition.
- Water exchange per kg feed = <u>Water exchange/day (m³/day)</u> Feeding/day (kg/day)
- Water exchange per kg feed = $120 (m^3/day)$ 300 (kg/day)
- Water exchange per kg feed = 400 l/kg feed
- The water consumption per kg fish produced is thus depending on the farmers skill: If feed conversion ratio (FCR) is 1, the water exchange per kg fish produced will be 400 If FCR = 0,9 consumption will be 360 litre per kg fish produced If FCR = 1,1 consumption will be 440 litre per kg fish produced



Technology reduces nutrient outlet



Danish Recirculation Technology - the future of Aquaculture now

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Unzip the potential..... Recirculated Aquaculture!

Farm fish everywhere with very little water and a very low environmental footprint



And now – let's hear how to create added value in RAS aquaculture through innovative technology integration.



Adrian Bischoff-Lang, University of Rostock: InnoAquaTech – Cross-border cooperation for integrating innovative RAS technology within the South Baltic Region.

Peter Zeller, Fresh Corporation AG: It's fresh seafood – but there's no 'sea' required.

Michael Bech, Krüger A/S: RAS2020 – Landbased Farming for the Future.

Jonathan Trent, Omega Global Initiative: Innovation at thee Food, Water, Energy Nexus: 'You can bet your RAS'