

Pre fishery abundance of salmon in Norway has been reduced by more than 50 % since 1983 **Trenscription of the control of the

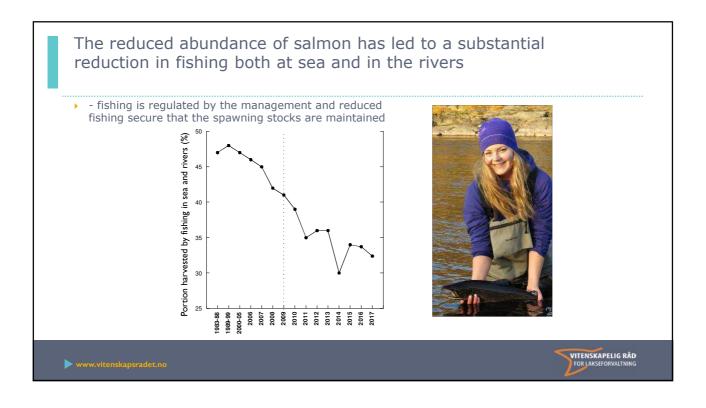
The quality norm for Norwegian salmon populations

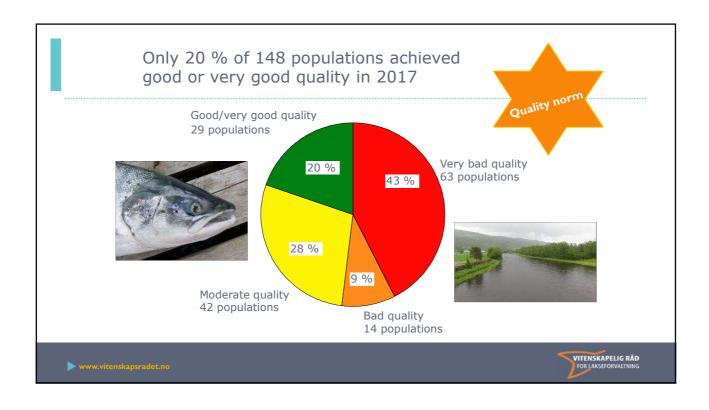
Quality norm

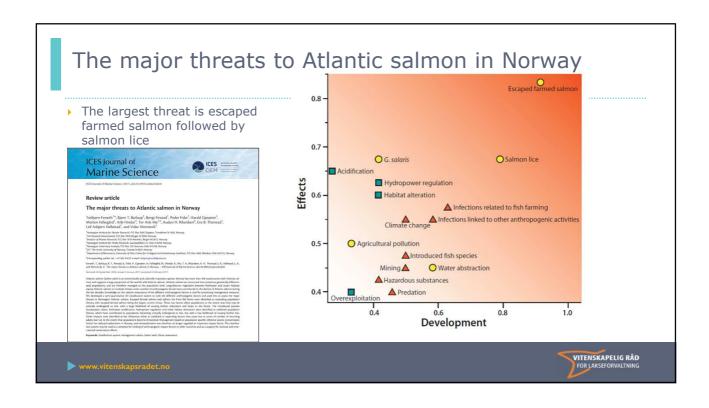
- A quality norm sanctioned by the Nature Diversity Act was adopted by the Norwegian government in 2013.
- It set a standard that all salmon populations should attain. The aim is to contribute to the conservation and rebuilding of salmon populations to a size and structure that will ensure diversity and productivity within the species, and that will ensure harvest opportunities.
- ▶ To attain the standard of the quality norm, the population must not be genetically impacted by escaped farmed salmon or other anthropogenic activities, it must have a large enough spawning population to reach the spawning target and it must provide a normal harvestable surplus.
- ▶ Hence, population status can only be classified as good when the spawning targets are attained after a normal exploitation of the population.

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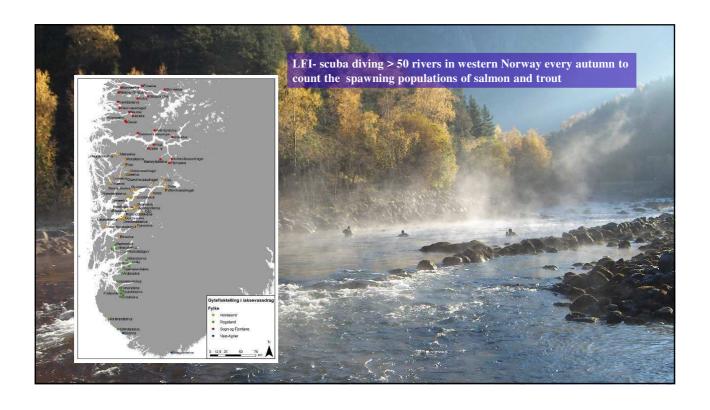


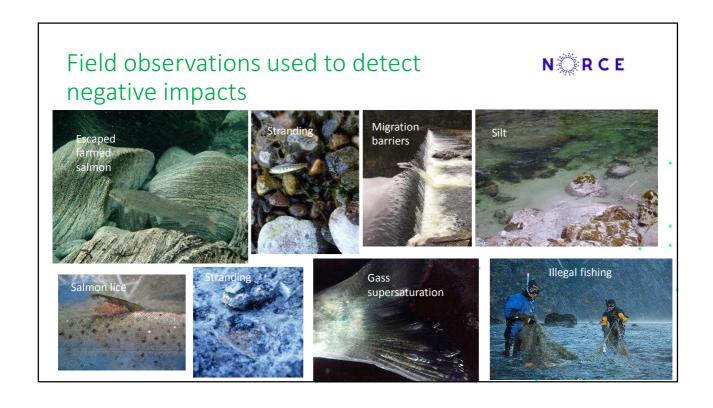


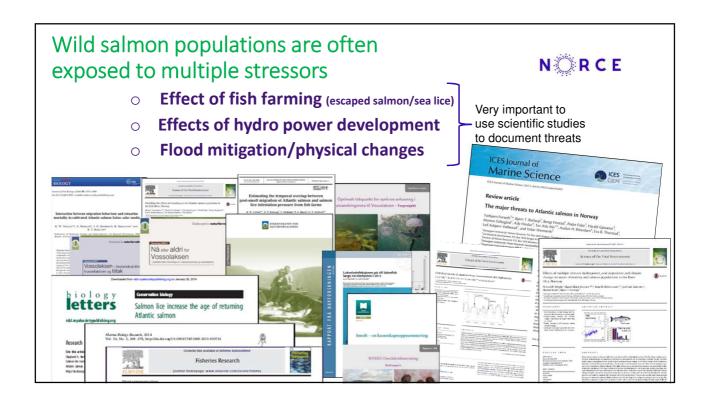


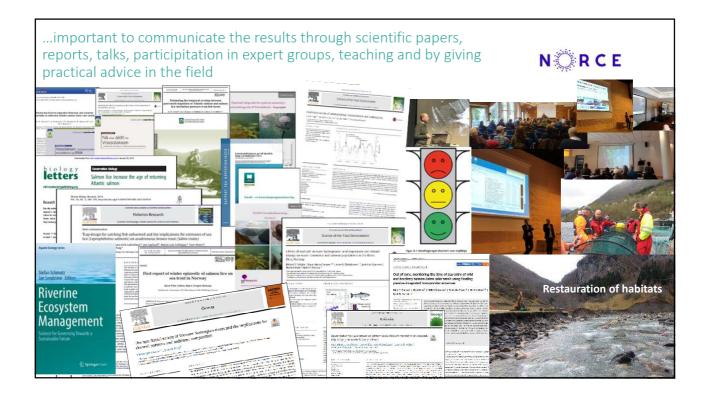


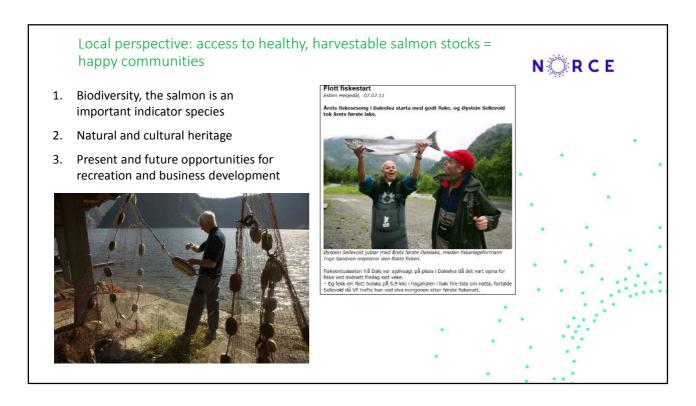


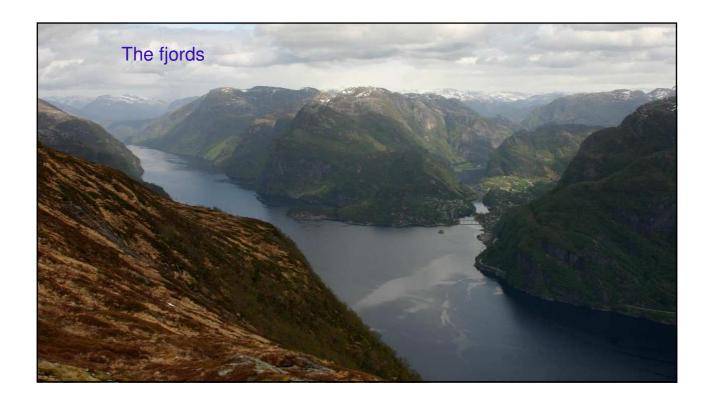


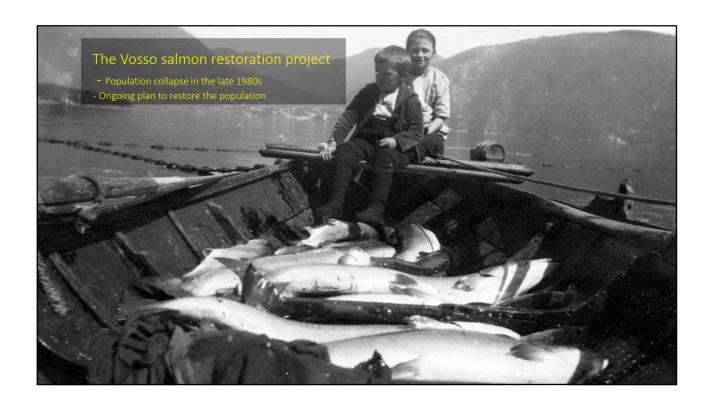




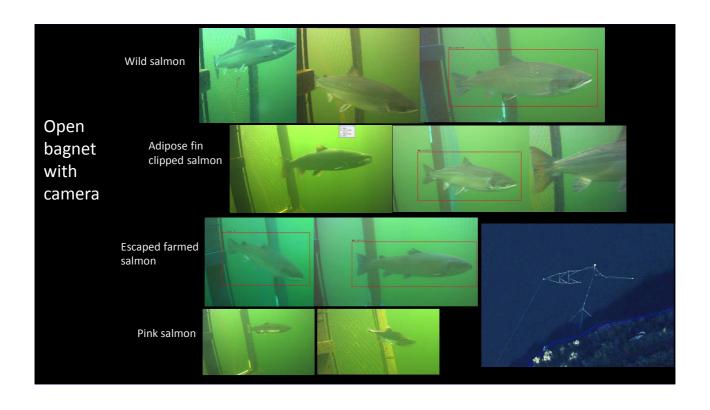


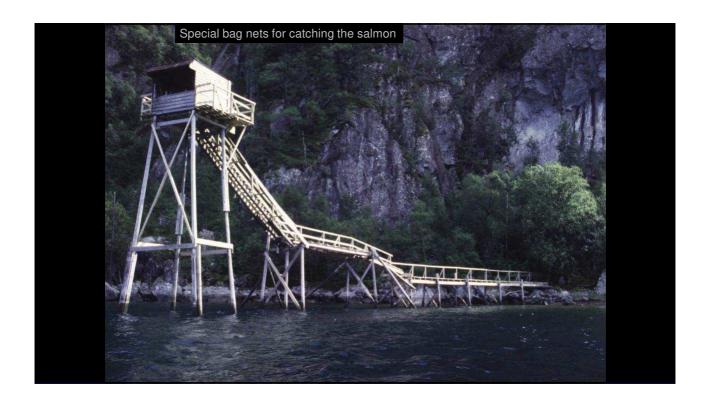




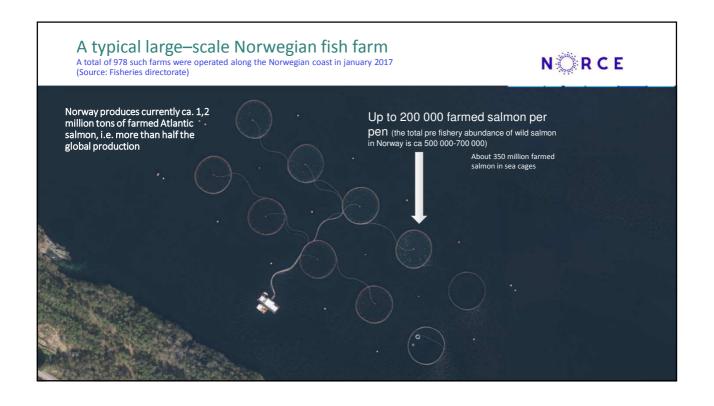


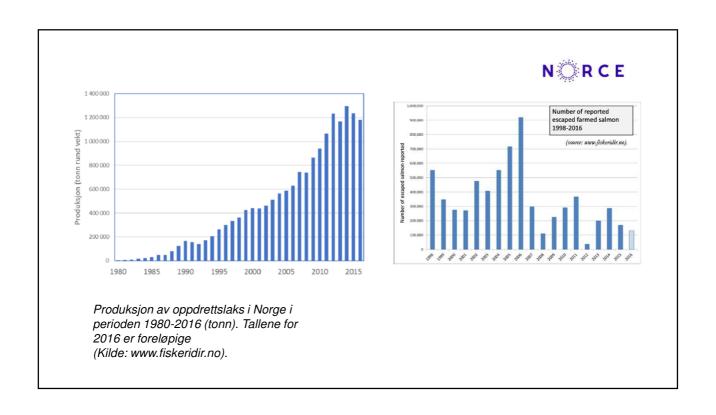


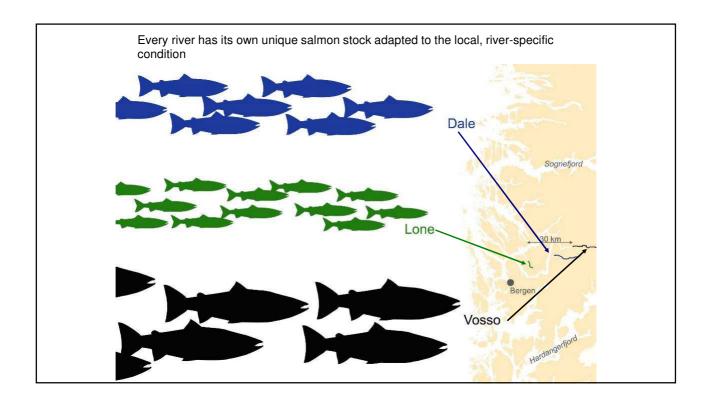


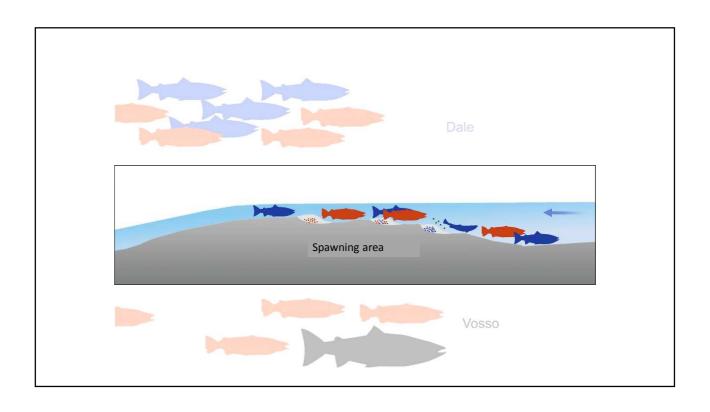


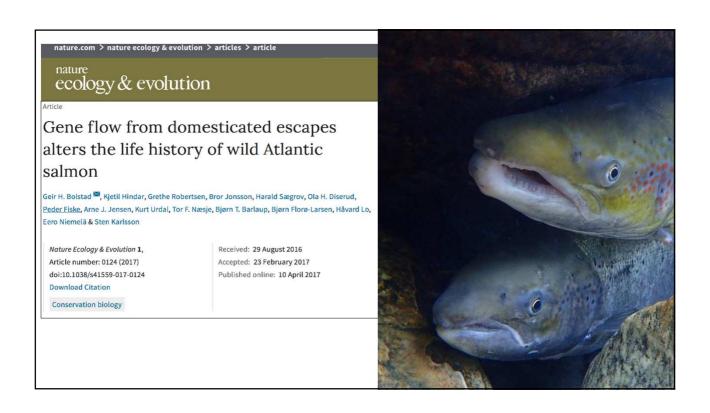












Norwegian monitoring programme for escaped farmed salmon in rivers has been operating since 1989

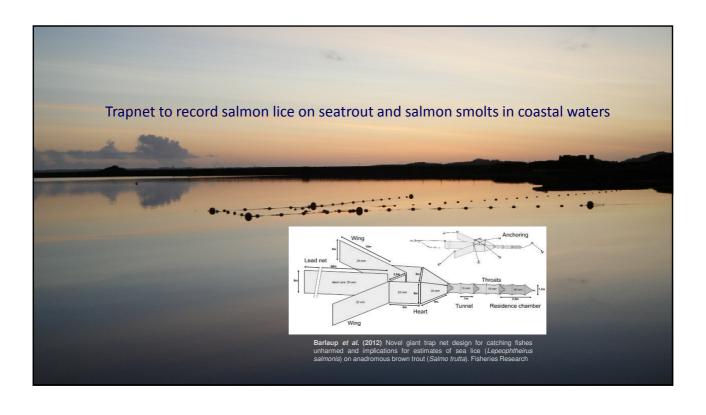




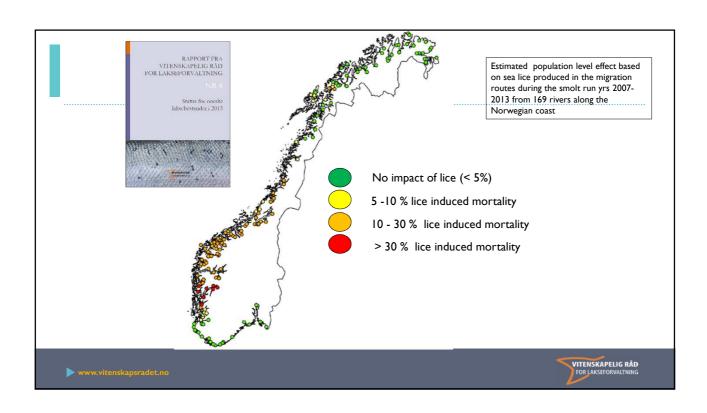


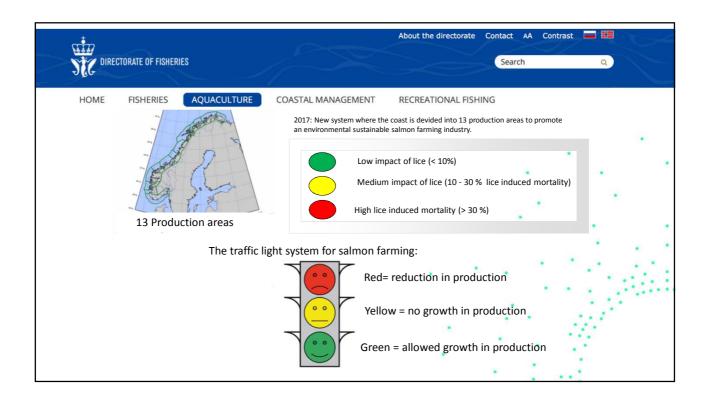








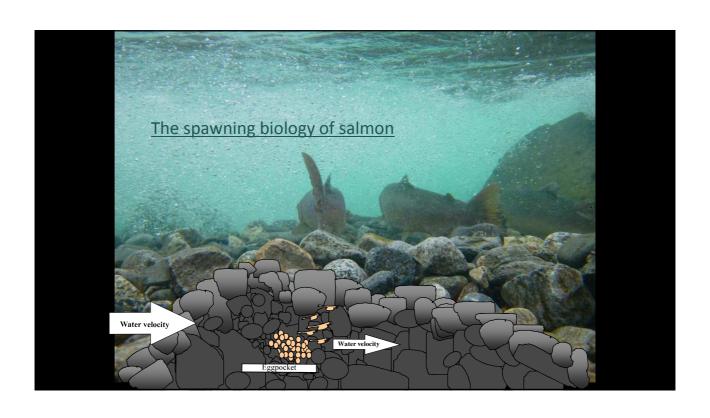


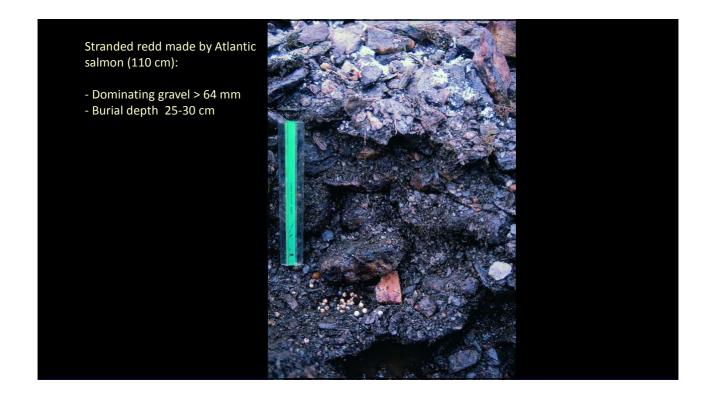


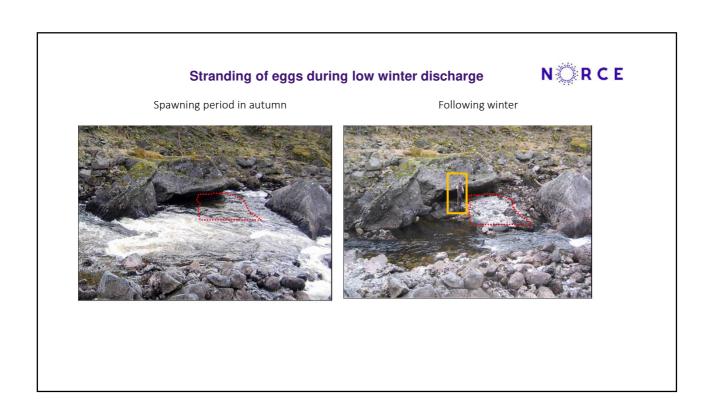


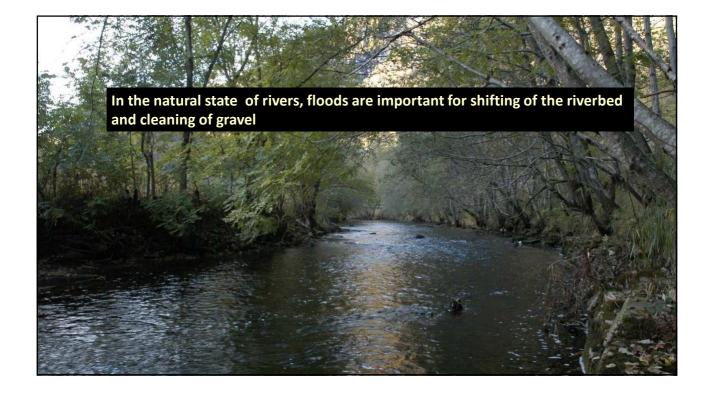




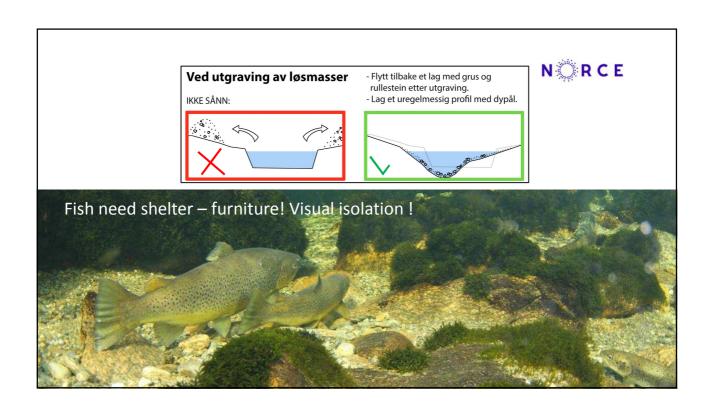


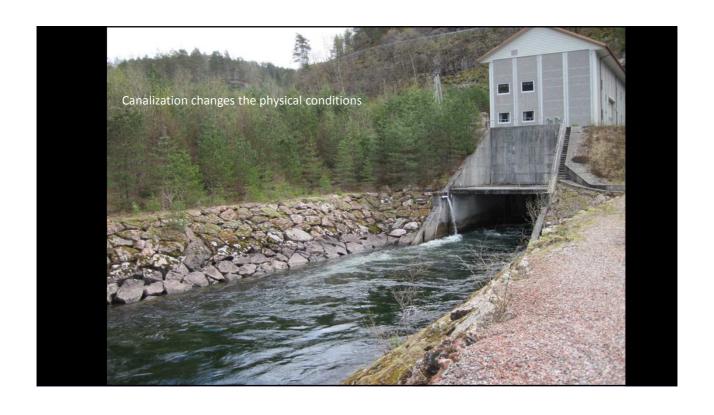








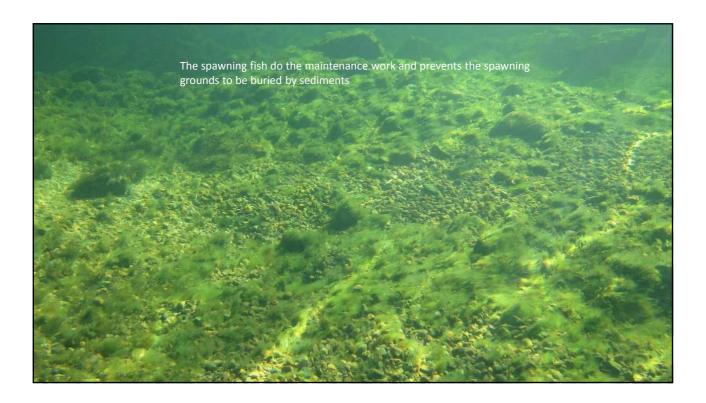












Summary



- In Norway, there are both a political goal and legislation to maintain self reproducing, harvestable salmon populations, not genetically impacted by escaped farmed salmon.
- Annual monitoring of the salmon runs in combination with reference point based management is likely of key importance to maintain the spawning targets and thereby the wild salmon stocks.
- Escaped farmed salmon and salmon lice from the salmon farming industry are considered the most serious threats to the wild salmon stocks in Norway, but there are also challenges related to human impacts in the rivers
- There are known restoration and mitigation efforts to handle most of the threats, but restoration efforts may oppose businesses such as fish farming, hydropower development, road construction etc.
- Our experience is that direct field observation is an efficient method to detect threats and identify needs for restoration efforts

