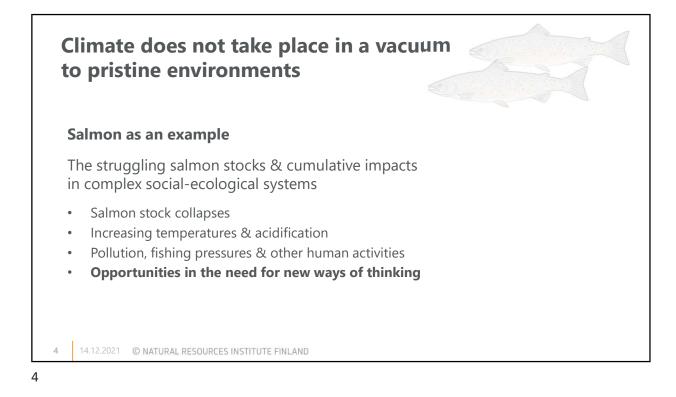


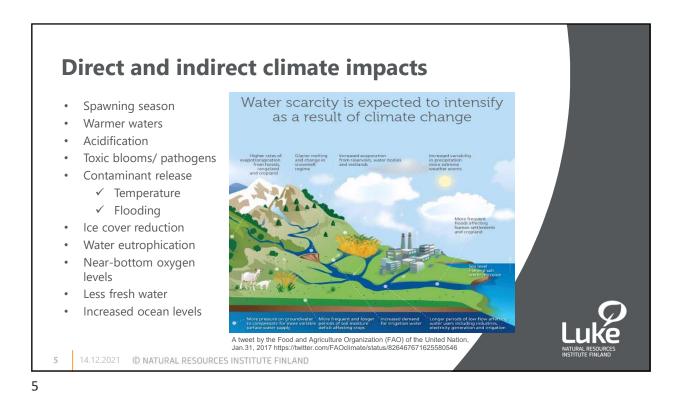
Effects of climate change on fish and fishing

- Open water fishing seasons longer; reduced ice cover will interfere with traditional winter fishing
- Increasing frequency and intensity of storms will reduce the number of fishing days
- Different fish species react differently to climate change, e.g. Warm water species will benefit from the temperature changes (Cyprinids, perch and pikeperch)
 - Cold water fish will suffer
 - (Arctic char, Atlantic salmon, brown trout, burbot and grayling)
- Alien species and numerous diseases will become more common, food competition might increase, changes in acidity may affect various factors
- Cumulative social-ecological effects complicate the situation

3



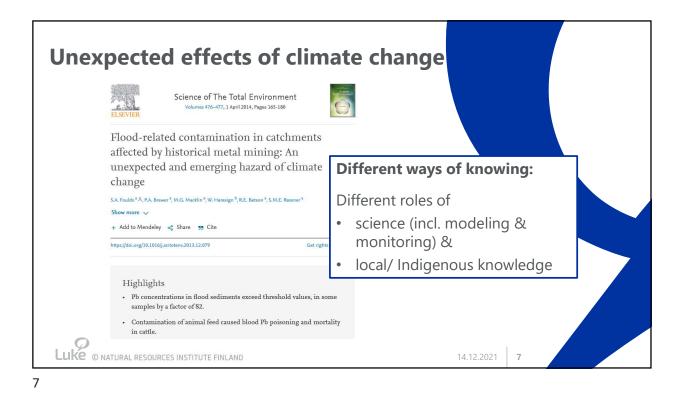




Examples of complex developments: Acidification

- Impacts of acidification in pink salmon: Early exposure to high levels of CO2 during the larval stage of development had significant negative effects on the fish's <u>size</u>, <u>metabolism and</u> <u>sense of smell</u> - ability to sense threats in their environment (Weight loss and impaired navigation)
- Different conclusions in Nova Scotia & Norway: Acid deposition/increased atmospheric CO₂ and increased precipitation
 - ✓ Challenges in predicting outcomes for complex issues







The power of phone apps, GIS mapping, citizen science, & local/Indigenous knowledge



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