

Salmon farming: Food production's ugly duckling?

25 November 2016





Fish farming - An industry with an image problem





My interest in the industry comes from a very different angle

Poverty and starvation are HUGE problems

"About 21,000 people die every day of hunger or hunger-related causes, according to the United Nations. This is one person every four seconds, as you can see on this display. Sadly, it is children who die most often." (www.poverty.com)





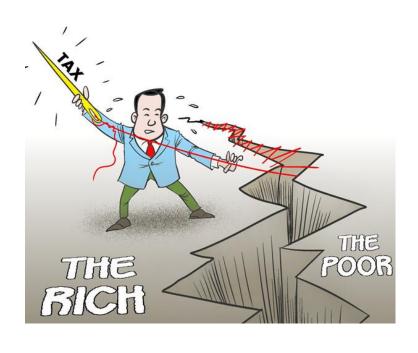




How do tackle this terrible problem?

Redistribution of wealth

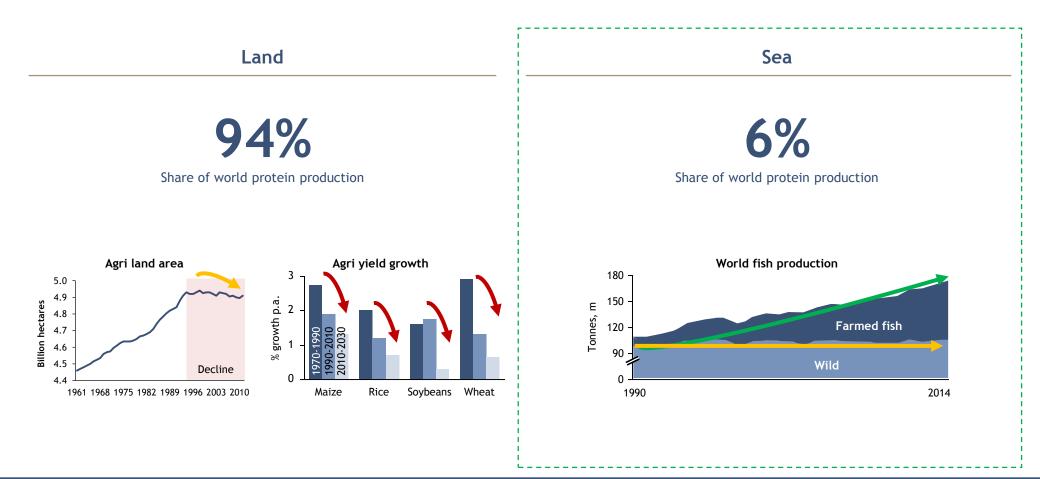
Produce more food







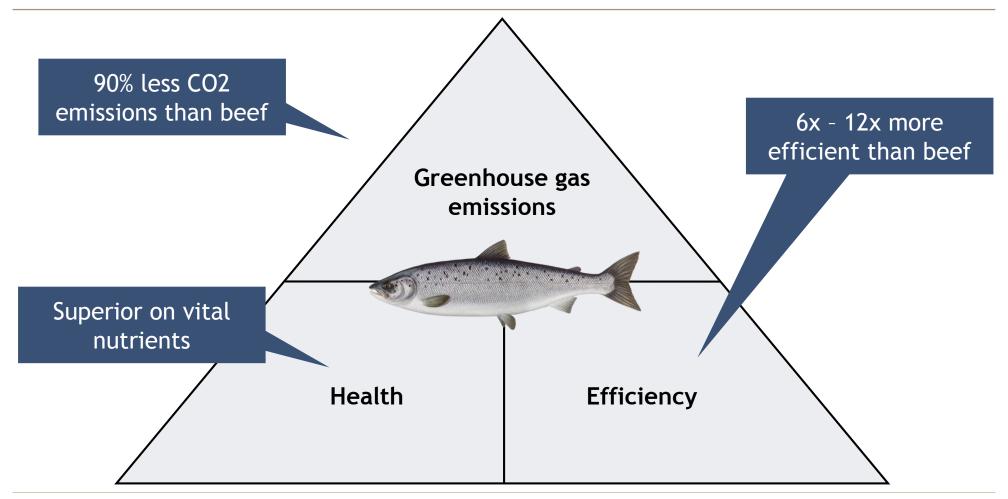
From what source can we grow food production?

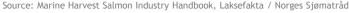


Farmed fish significantly outpacing land based food production and capture of wild fish



How does fish farming stack up on key food production parameters: Efficiency, healthy and greenhouse gas emissions?







Progress is needed



"I do not ask you to change direction, but I ask you to accelerate progress. We need to work together if we are to overcome world hunger"

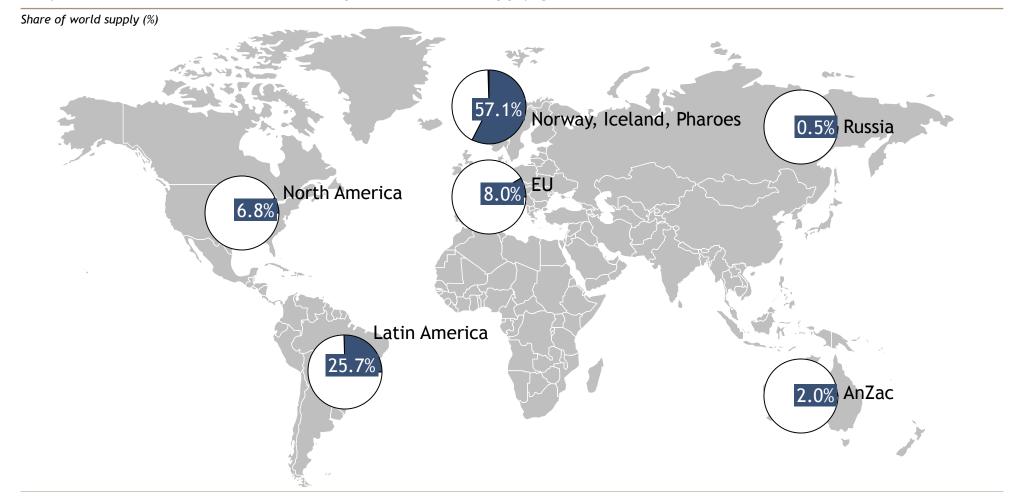
Kofi Annan AquaVision 2012



"Saving the world is one thing, making money another"

Examining salmon farming market economics

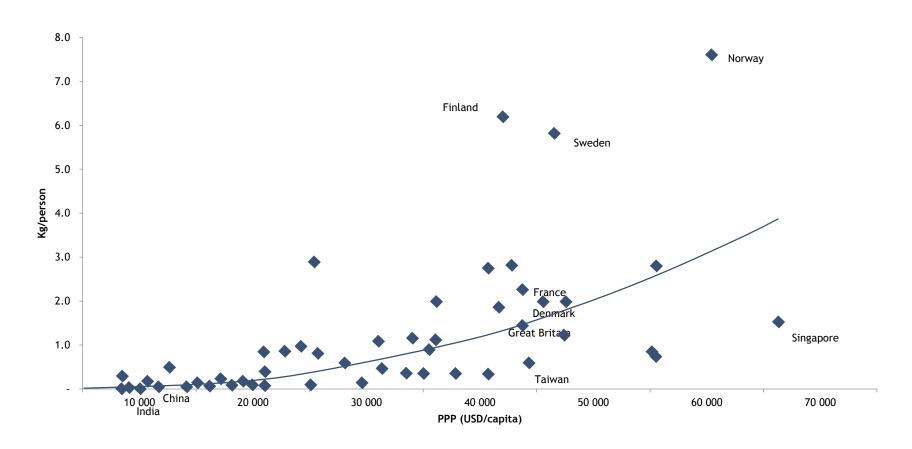
Very difficult to see which areas can provide future supply growth





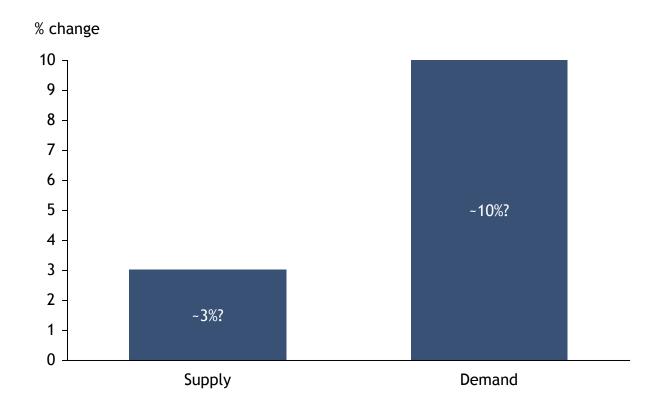
When the poor gets richer salmon consumption will accelerate its growth

Salmon per capita to GDP (PPP, USD per capita)





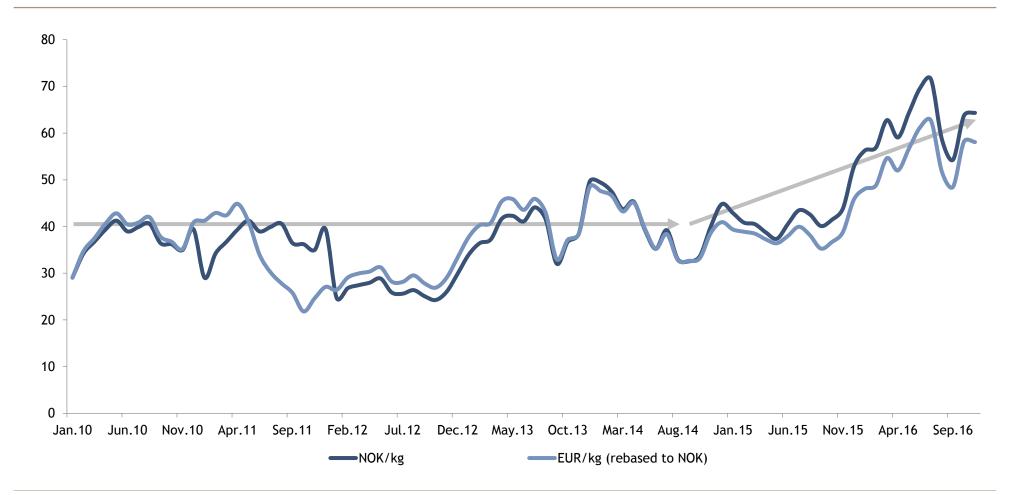
With demand continuously outpacing supply, what to expect of the price?





Prices continue to set new records

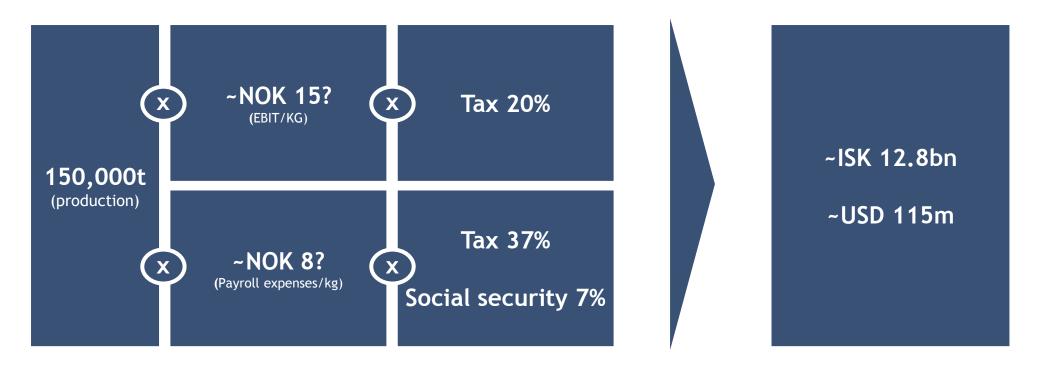
Fish Pool Index weekly spot prices

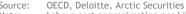




Huge tax potential for Iceland

Production of 150,000t/year at moderate assumptions yields significant tax income





Labour cost approximation per kilo based on Salmar, Grieg Seafood, Lerøy Seafood and Bakkafrost



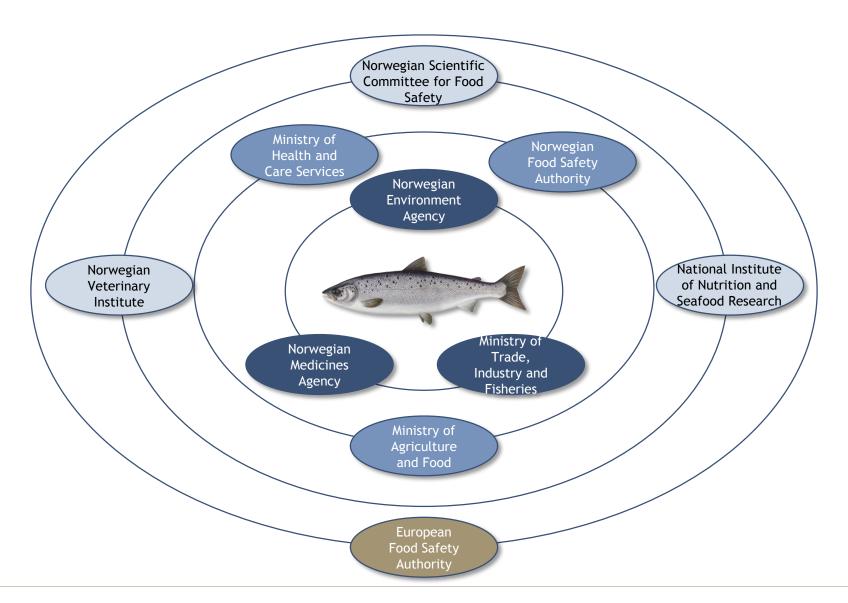
Threats to be aware of

Do not allow any poor farmers





Salmon farming needs regulation





Iceland with a once in a lifetime opportunity

Salmon farming represents a great way for Iceland to

Just make sure to

Efficiently produce
healthy food without
greenhouse gas emissions
(the world thanks you)

Generate significant tax benefits and employment

Have a good regulatory framework and avoid bad farmers



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