Landbasert oppdrett – finansielle betraktninger Morefish og Åkerblå

9. november 2022

Dag Sletmo, Corporate Banking DNB Ocean Industries – Seafood

DNB Bank is a global seafood player



Leading arranger of debt in seafood sector, and a full range of Investment Banking services offered

Agenda

- Drivers for land-based farming
- Current themes
- What we look for
- How banks think

Why all the focus on land-based farming? Many good reasons

- Still, the conventional salmon companies play the waiting game...



Regulatory reasons
Conventional growth is expensive and limited and less profitable in exposed areas



Environmental reasons - oceans

No impact on the oceans, no fish escape, seabed footprint



Other environmental reasons

Production close to market reduces the need for air freight and lowers the carbon footprint



Fish health aspects

No sea lice or treatment of the fish, reduced stress, better growth with stable temperatures



Consumer friendly

Fresher salmon with production close to market



Profitability

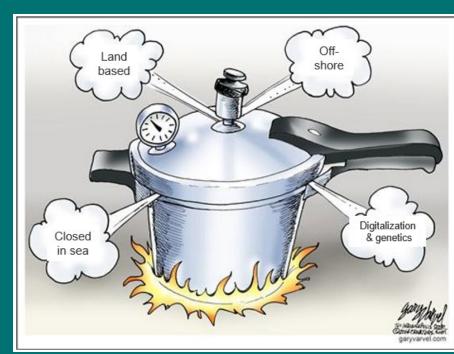
The factors above are key profitability drivers for land based farming. Long term, when technological and operational risk have been reduced, the industry can become very profitable

In short: sustainability, different value proposal, lack of growth in conventional farming

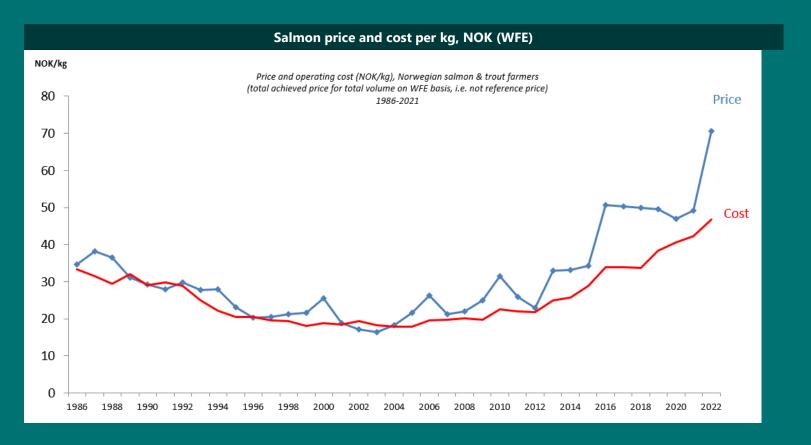
Enablers

- High profitability
- Good long-term price visibility
- Clearly defined problems

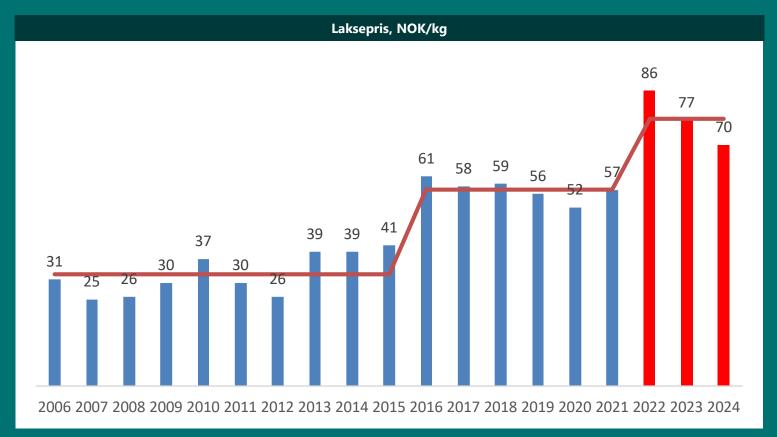




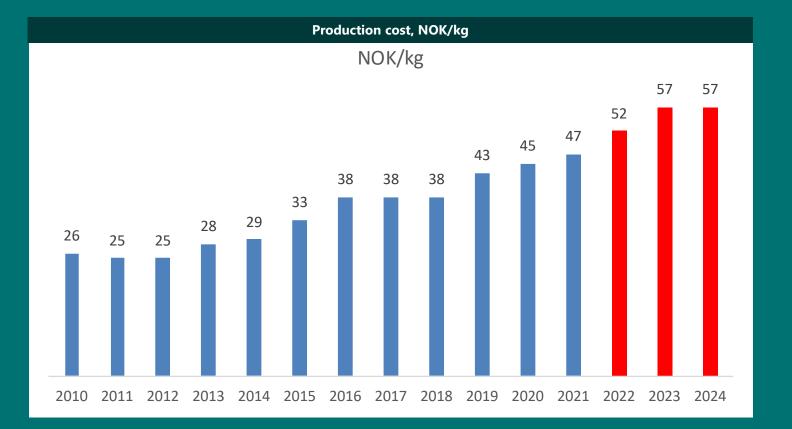
High price & high cost in sea positive for land-based farming



Strong prices also ahead



But cost will also pick up



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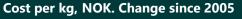


Source: DNB Markets' Alex Aukner

Biology has been the key cost driver



University of Stavanger





2013 2014 2015 2016

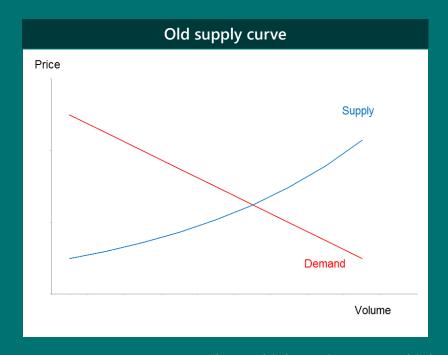
2011

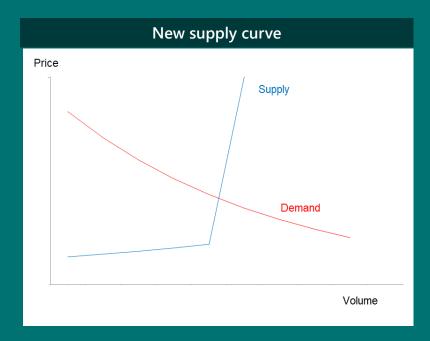
2012

2017 2018 2019

What sets the price?







- Until 2012 higher prices meant higher volumes. Not anymore
- Will new technology add capacity high on the supply curve or low?
 - Oil sand vs shale oil very different impact on incumbent producers

Salmon price - a ticking bomb or a horn of plenty?

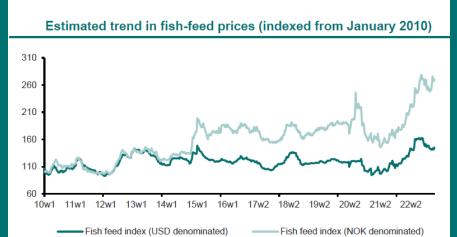


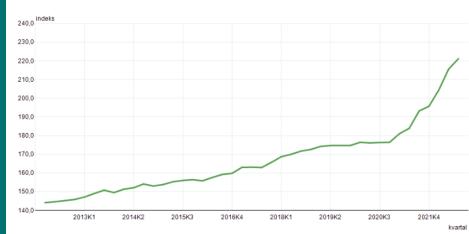


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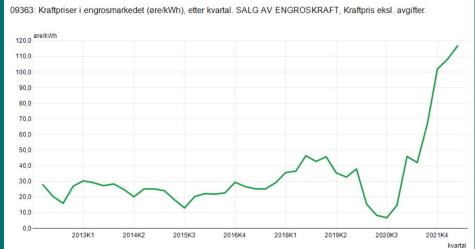
"While you were deciding, we raised our prices."





08662: Byggekostnadsindeks for veganlegg (1. kv. 2004=100), etter kvartal. Veganlegg, i alt, Byggekostnadsindeks.





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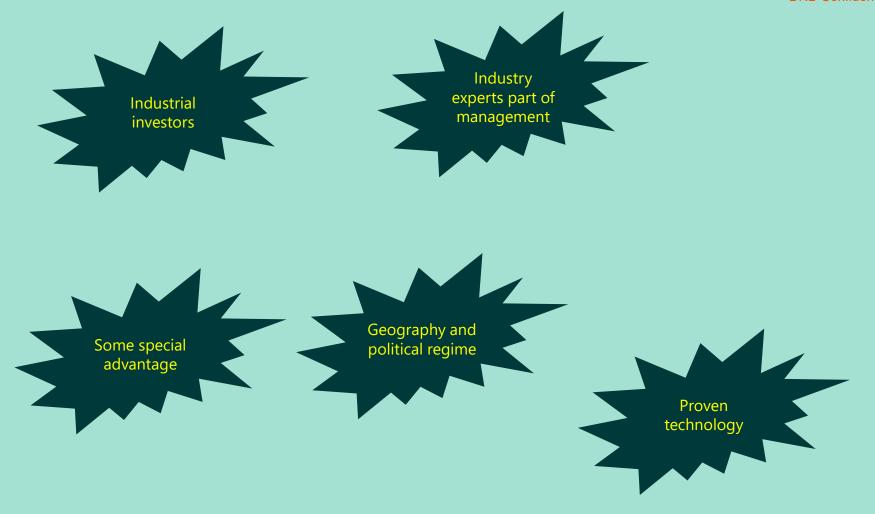


"I suppose I'll be the one to mention the elephant in the room."

BlackRock chief Larry Fink says Ukraine war marks end of globalisation

Boss of \$10tn asset manager warns about inflation as companies reconfigure supply chains

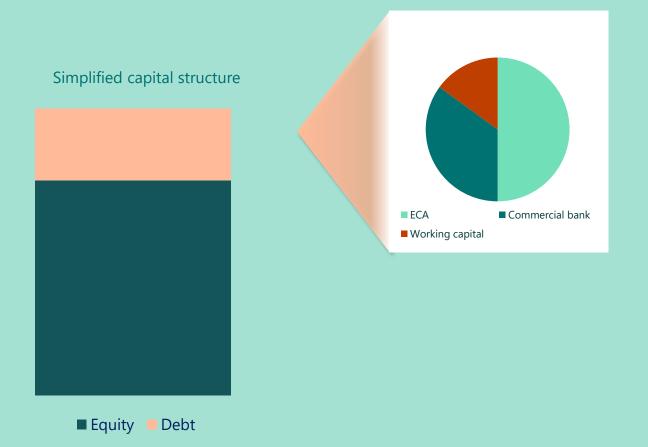






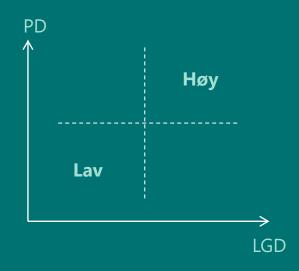


Debt financing of land based salmon farming



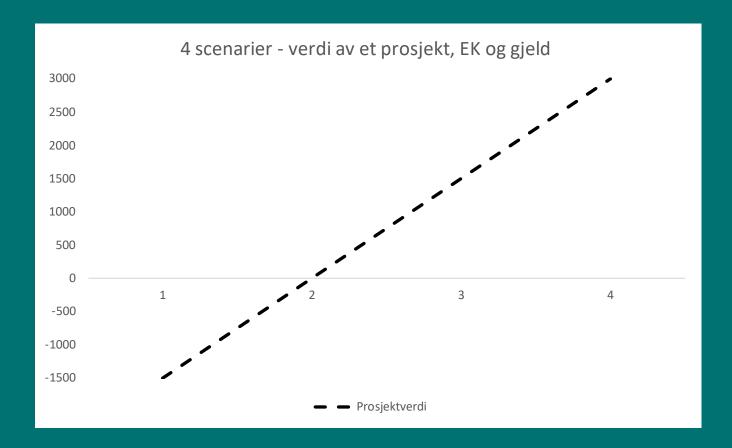
Hvordan tenker en bank? Vi ser på sannsynligheten for at bedriften misligholder gjelden og vi i så fall taper

- Probability of Default (PD) sannsynligheten for at kunden går konkurs. Baseres på kundens finansielle stilling og markedsposisjon.
- Loss Given Default (LGD) forventet andel av engasjement banken vil tape dersom kunden går konkurs. Avhenger av hvilket pant og hvilken forhandlingsposisjon banken har.
- Risikoen vi tar avgjør hvor mye kapital banken må sette av, og dermed også hvor mye banken må ta betalt for å låne ut penger.

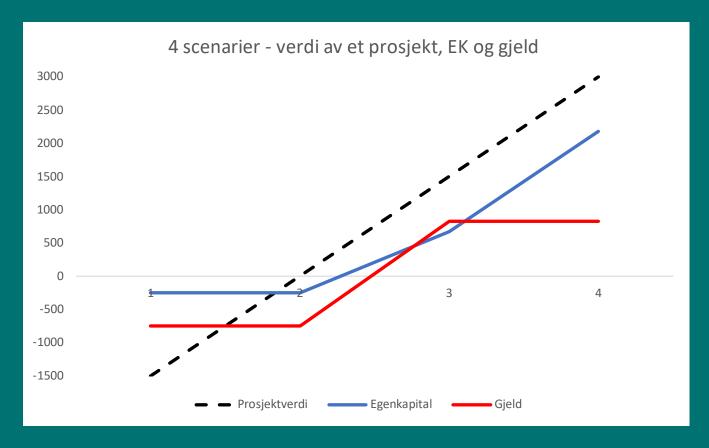


Forventet tap = PD x (1-LGD)

Et prosjekt med 4 mulige utfall – fra stort tap til stor gevinst



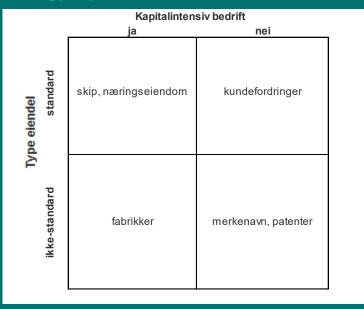
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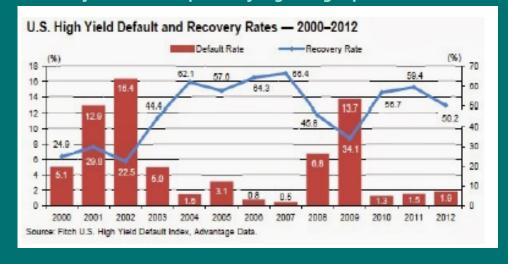
- EK 250
- Gjeld 750
- 4 scenarier med 25% sannsynlighet hver, prosjektverdi på hhv - 1500, 0, +1500, +3000
- 10% lånerente
- Forventet EK avkastning pluss 185%
- Forventet gjeldsavkastning minus 45%

Bankenes pantesikkerhet

Ulike typer pantesikkerhet



Korrelasjon mellom tapssannsynlighet og tap



Still a young industry, but promising developments in recent years - Many unknown unknows as we are still in an early phase

"There are known knowns; there are things we know we know.

We also know there are known unknowns; that is to say we know there are some things we do not know.

But there are also unknown unknowns — the ones we don't know we don't know.

And if one looks throughout the history of our country and other free countries, it is the latter category that tend to be the difficult ones" – Donald Rumsfeld

Technological risk Does the technology work well enough on a large scale? Can the technology handle/produce the volumes/density promised by the supplier?

Technical /Op. risk Will we get to the "airplane system risk" where the important system simply doesn't break down? If the systems works fine in 90/100 batches, it is not good enough if there are major production challenges in 10/100



Biological risk

How does the fish deal with the density levels required on land over time? What if bacteria get into the tanks? H2S?

Thank you for your attention

