



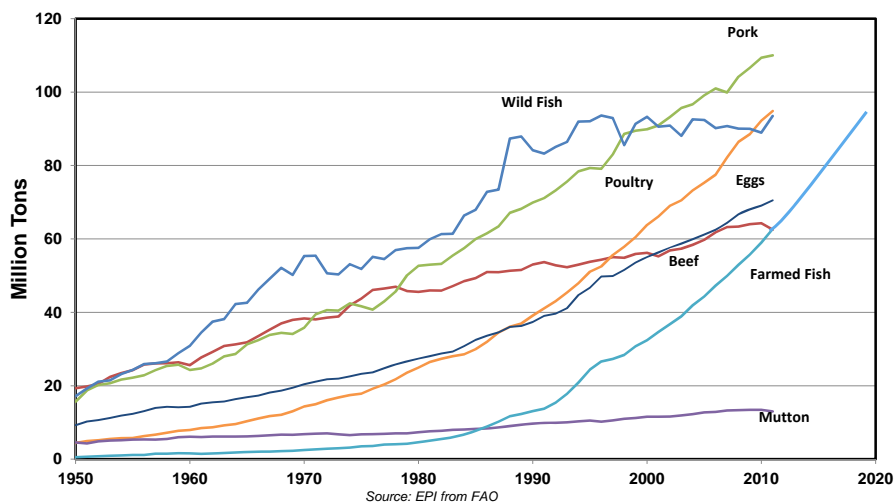
Proteins for Food and Health – Sustainable Aquaculture

Dr Mathew Cook – Research Director, CSIRO Aquaculture

www.csiro.au



Trends in production of animal protein



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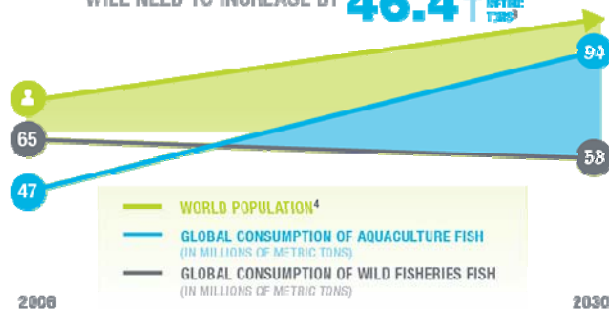


Capture vs Aquaculture

“With the world's population predicted to increase to 9 billion people by 2050 — particularly in areas that have high rates of food insecurity — aquaculture, if responsibly developed and practiced, can make a significant contribution to global food security and economic growth,”

— Árni M. Mathiesen, Assistant Director-General
FAO Fisheries and Aquaculture Department

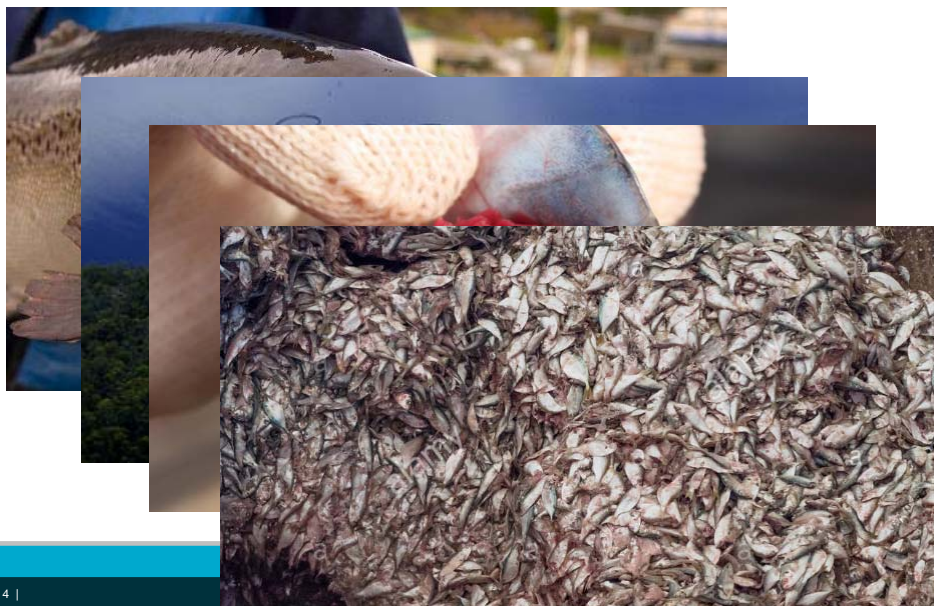
TO MEET THE WORLD'S SEAFOOD NEEDS,
AQUACULTURE PRODUCTION
WILL NEED TO INCREASE BY **46.4** ↑ MILLION METRIC TONS



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Challenges for Aquaculture Development



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Aquaculture is an efficient protein provider

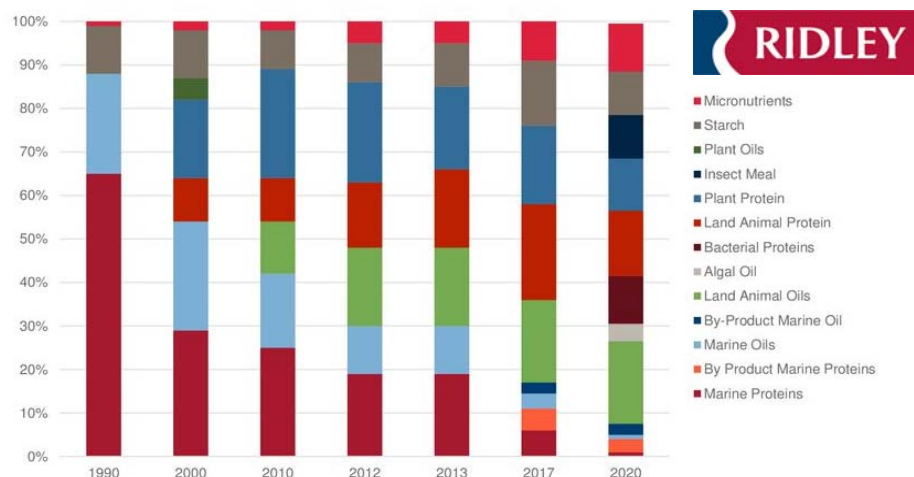


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Presentation title | Presenter name



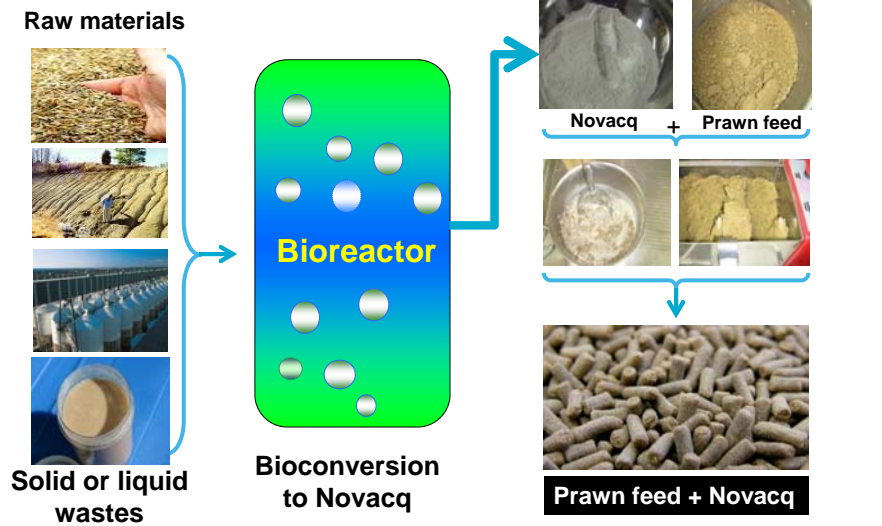
Net producer of fish protein due to ingredient substitution



Modified by Smullen from Ytrestøyl, T., Aas, T. S., & Åsgård, T. (2015). Utilisation of feed resources in production of Atlantic salmon (*Salmo salar*) in Norway. *Aquaculture*, 448, 365-374.

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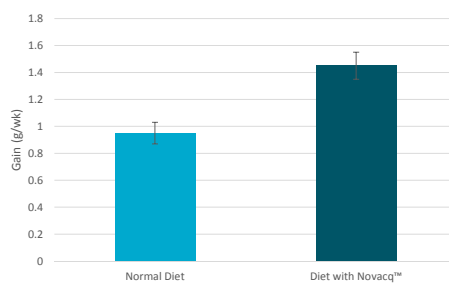
Bioactives – CSIROs Novacq



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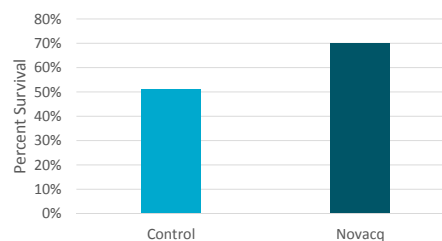


Novacq – increased growth and survival in prawns



20-40% increase in growth rates

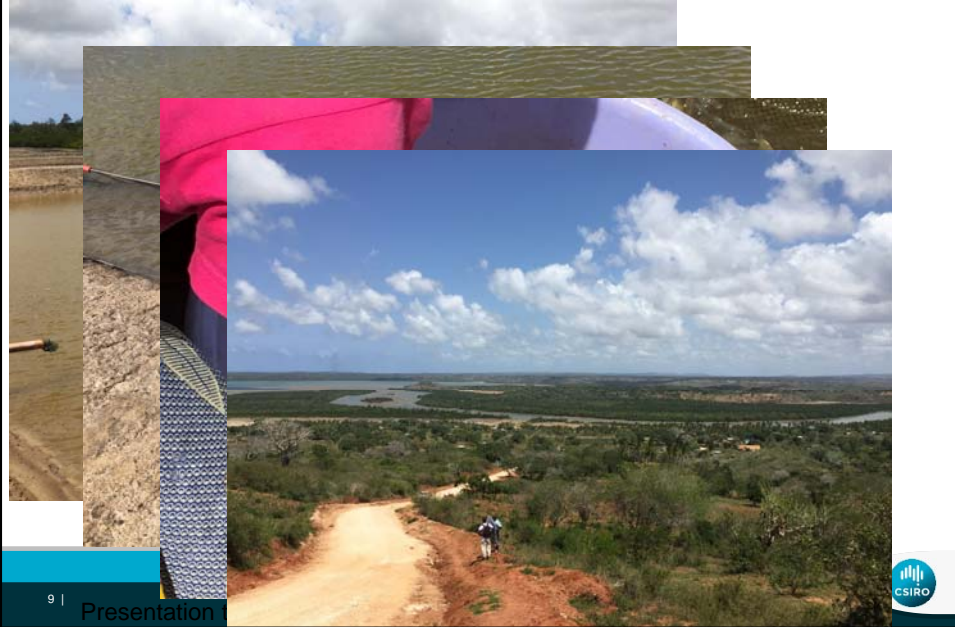
37% increase in survival



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Tangential effects of Aquaculture



Thank You

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