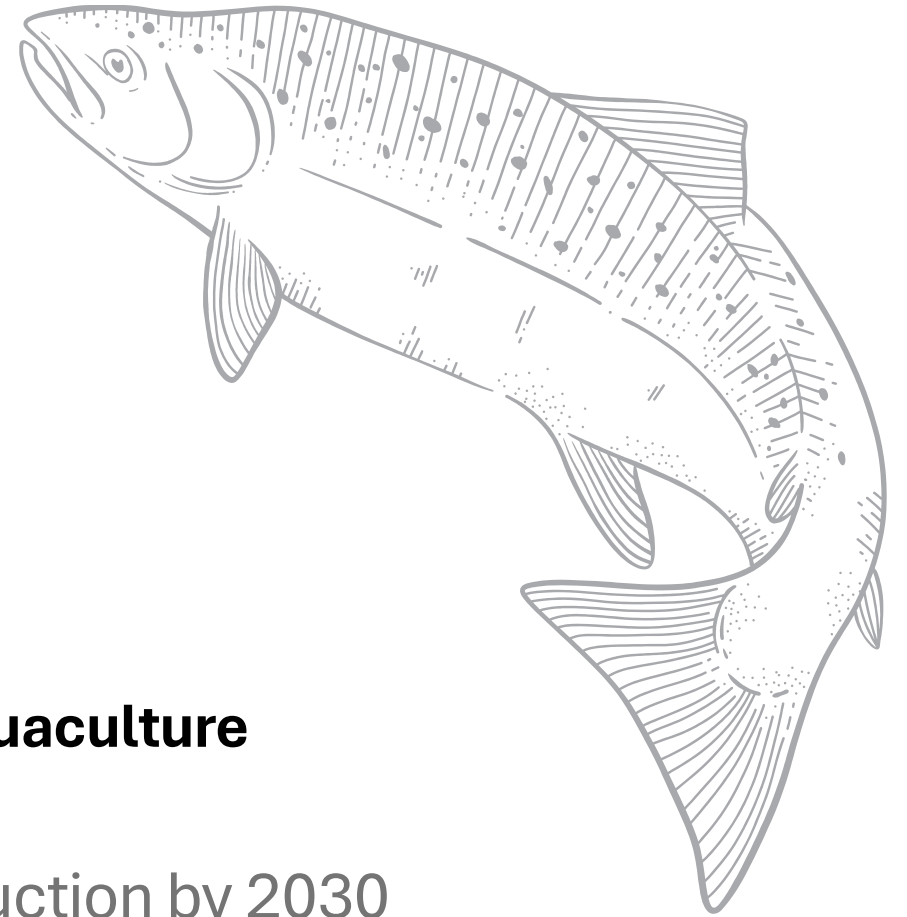


Konree Innovation



Breaking the Barrier to Growth in Salmon Aquaculture

Doubling Production by 2030

Margaret Rae PhD
CEO, Konree Innovation



The man in the arena...daring greatly.....

T. Roosevelt





Daring greatly.. the triumph of high achievement

Irish Salmon Aquaculture

High Atlantic Energy



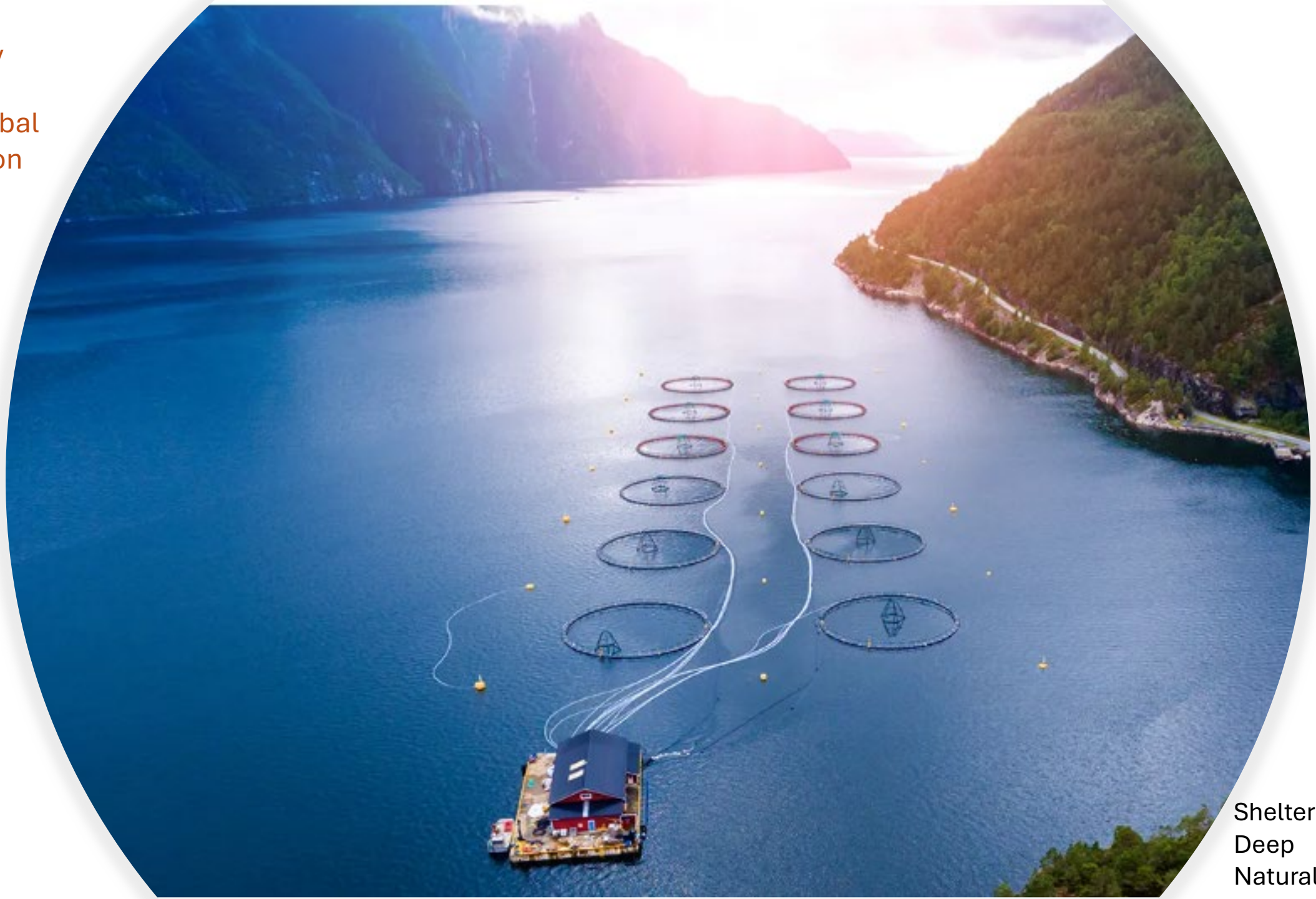
Iceland

ca. 3.4% global production



Norway

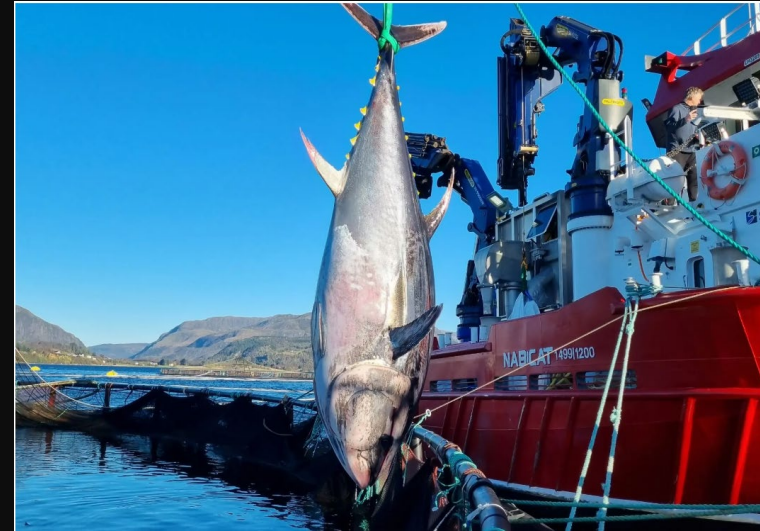
>50% global
production



Sheltered
Deep
Natural Resources



- Fish Framing Expert: 300 kg Blue Fin Tuna found in salmon pen (2023)



- Infracatch: Seals in Maine – 50,000 fish from Cooke’s Aquaculture, a 4.5% loss, Photo: Shutterstock (2023)



Plankton blooms



© NASA



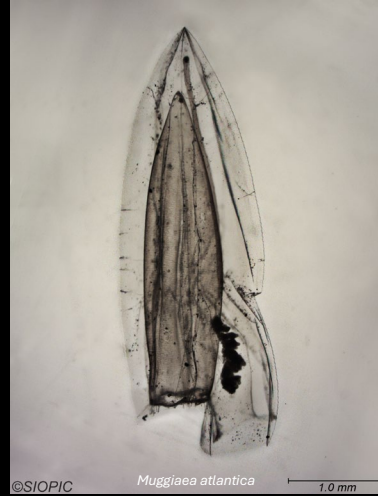
© NASA 2000





Aurelia aurita

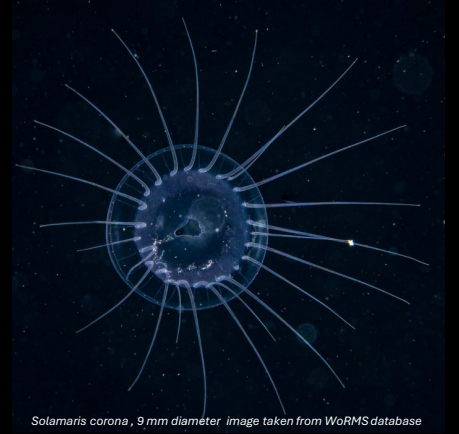
www.mer-littoral.org © Wilfried Bay-Nouailhat



©SIOPIC

Muggiaea atlantica

1.0 mm



Solamaris corona, 9 mm diameter. image taken from WoRMS database



Apolemia uvaria - photo Erling Svensen/Norwegian Institute of Marine Research



Pelagia noctilca - image taken from WoRMS database

500 different species of sea lice parasites, each has its own 'preferred' host

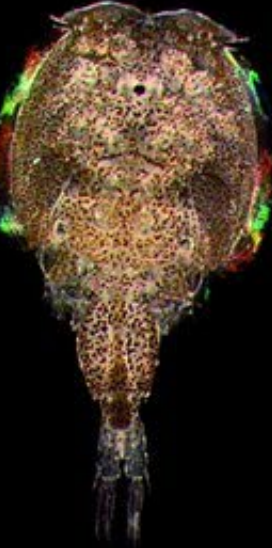
Single most feared & persistent pest in salmon aquaculture



Cod lice
C. curtus



Salmon lice
L. salmonis

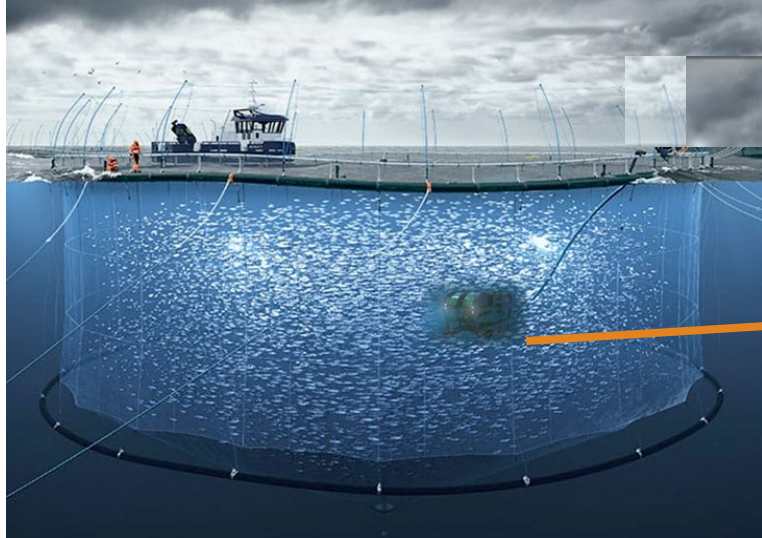


Opportunistic lice
C. elongatus



Left to Right: *Caligus curtus*, *Lepeophtheirus salmonis*, *Caligus elongatus*, Image: Lars Hamre

Konree Solution



IP Protection

1. Konree deploy proprietary solution in a salmon pen

2. To target the Lice

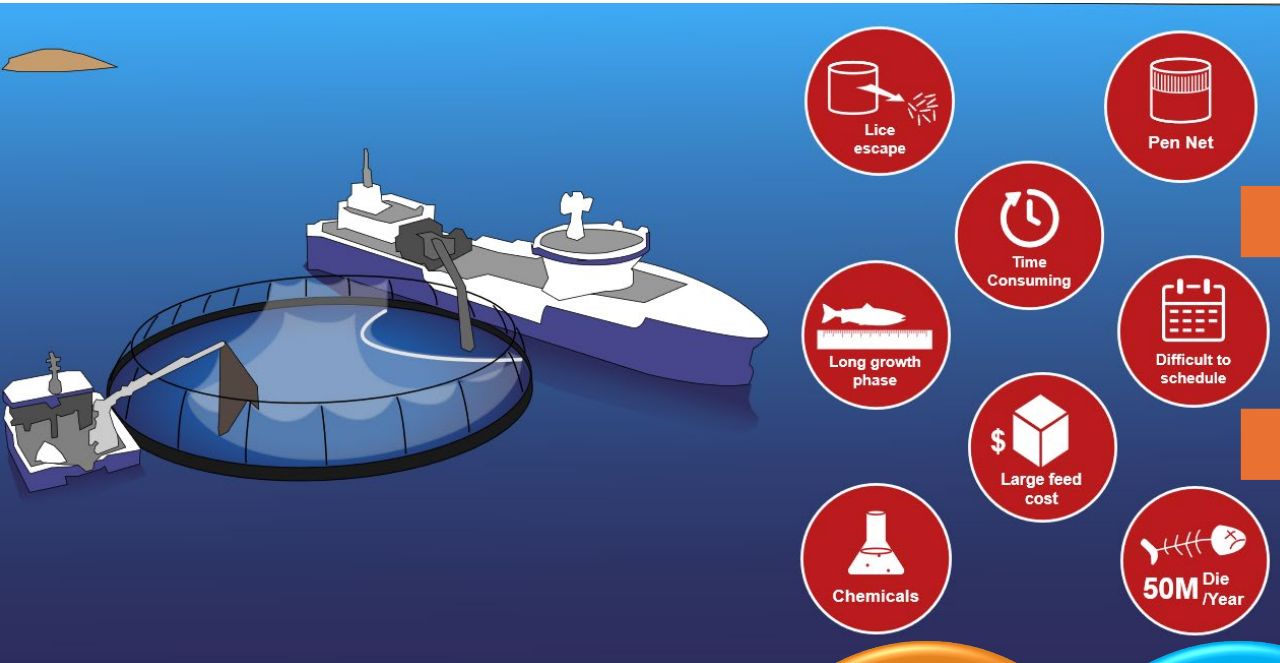
3. AI –sense-detect-act:
Use our proprietary technology to isolate and terminate the lice

24/7
Active



Current methods - Competition

Before Konree



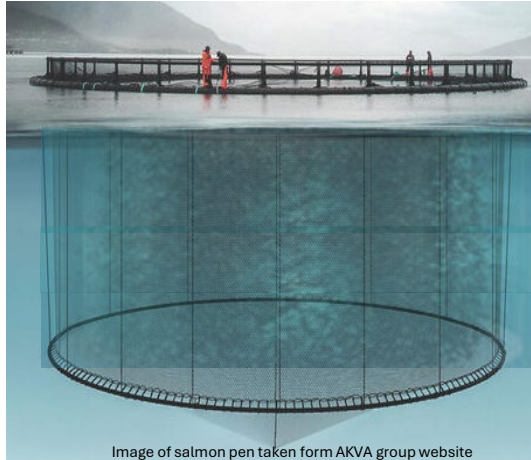
Konree Solution



No single treatment or method or combination is currently able to control it



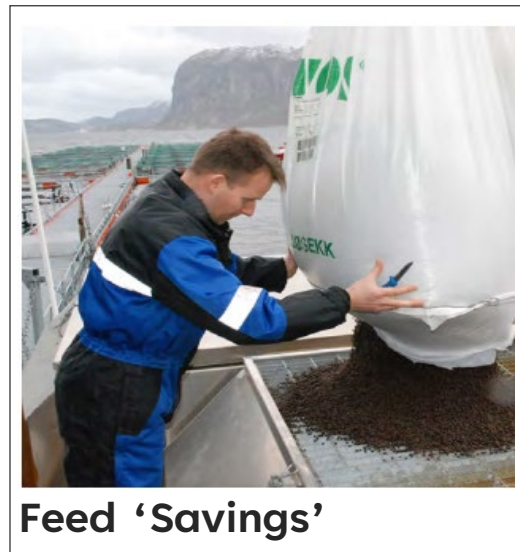
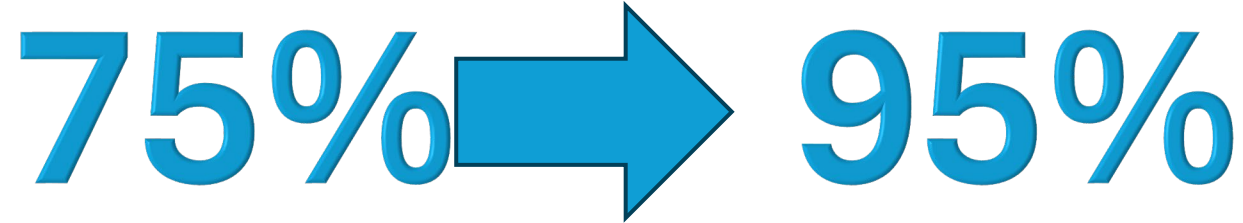
Economic Impact



Yields

*SW Norway

Target



Prototype 2 Deployment



Our Team



Margaret Rae
CEO & Founder

Former Director at



Former EU Chair



Michael Flynn
CTO & CoFounder

Cofounder & Former CTO



Serial Entrepreneur



Rafael Salas
R&D Biologist

• Plankton specialist

• Marine culturing & Digital Imaging



Isa Woulfe
R&D Biologist

• Marine culturing

• Termination studies

Advisory Board



Orla Battersby

- Former Senior Leader
- Enterprise Supports Advisor



Jan Feenstra

- Aquaculture Advisor
- Salmon Aquaculture



Stephen Rae

- Former Group Editor-in-Chief
- Communications & Marketing



Dominic O'Toole

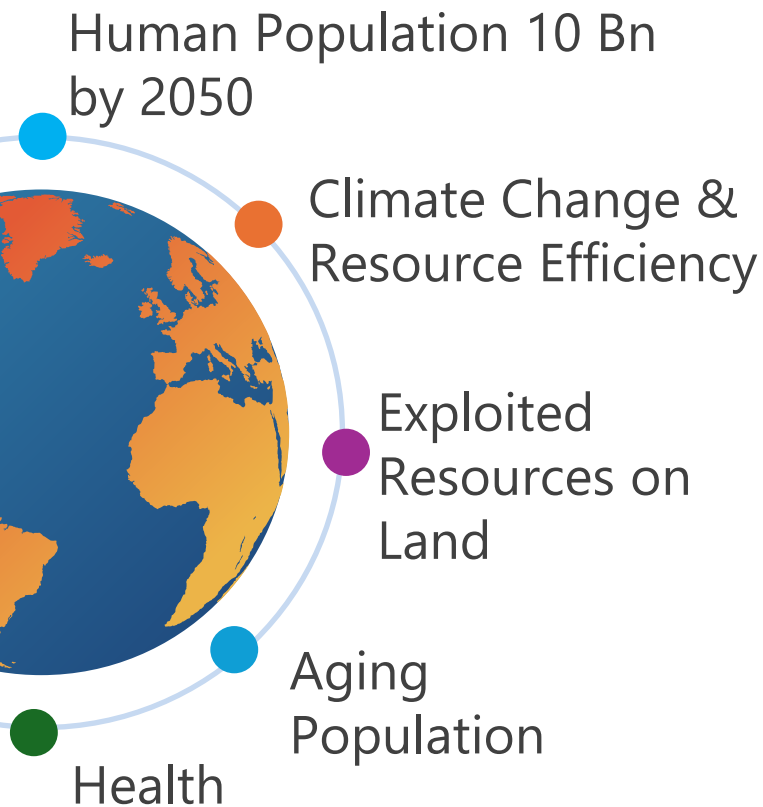
- Startup & Innovation Ecosystem Advisor
- Tech Dev Advisor



Team deep domain expertise. Advisory Board Significant Senior Leadership Experience. 280 years combined experience



Global Challenges



Climate

Carbon footprint KgCO₂e



0.60

Farmed Salmon



0.88

Chicken



1.30

Pork



5.92

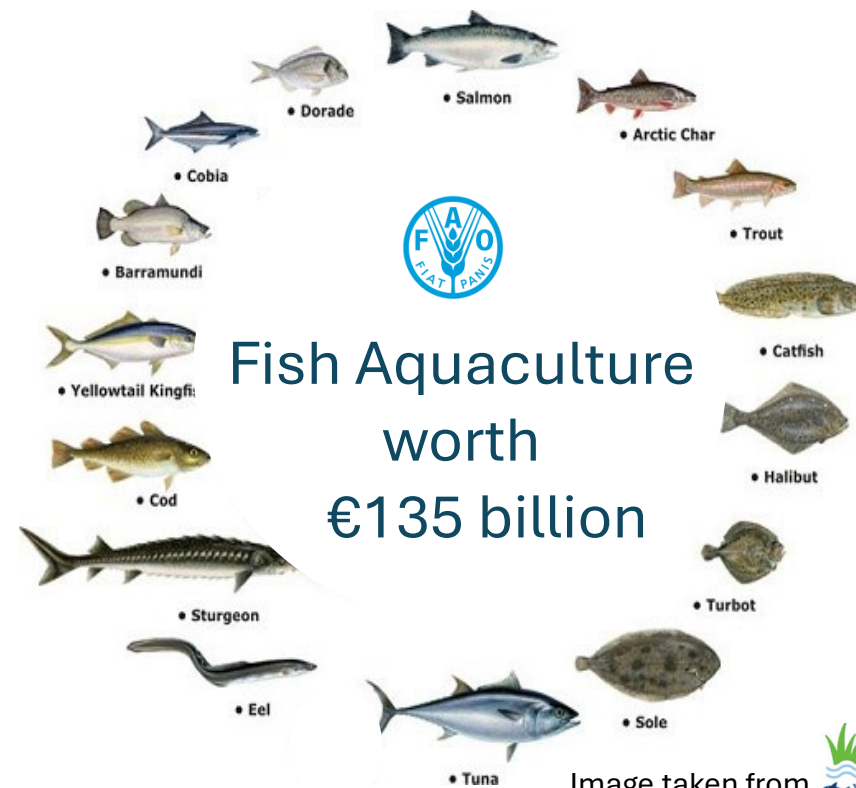
Beef

Enabling Food Production Transition for Climate-Friendly Healthy Planet



Avoid 16.4 million tons of CO₂ emissions
≅ 3.4 millions cars running for 1 year.

Freshwater & Marine Fish Species



Fish Aquaculture worth €135 billion

Image taken from



Salmon is a premium fish, salmon lice are a wickedly difficult problem, and the market is looking for solutions





Thank you!

Margaret Rae PhD

CEO

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www.konreeinnovation.com

ATU iHub, Galway



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