

Aquaculture and Food Security



Dave Conley, M.Sc.
ACG - Aquaculture Communications Group
www.aquacomgroup.com

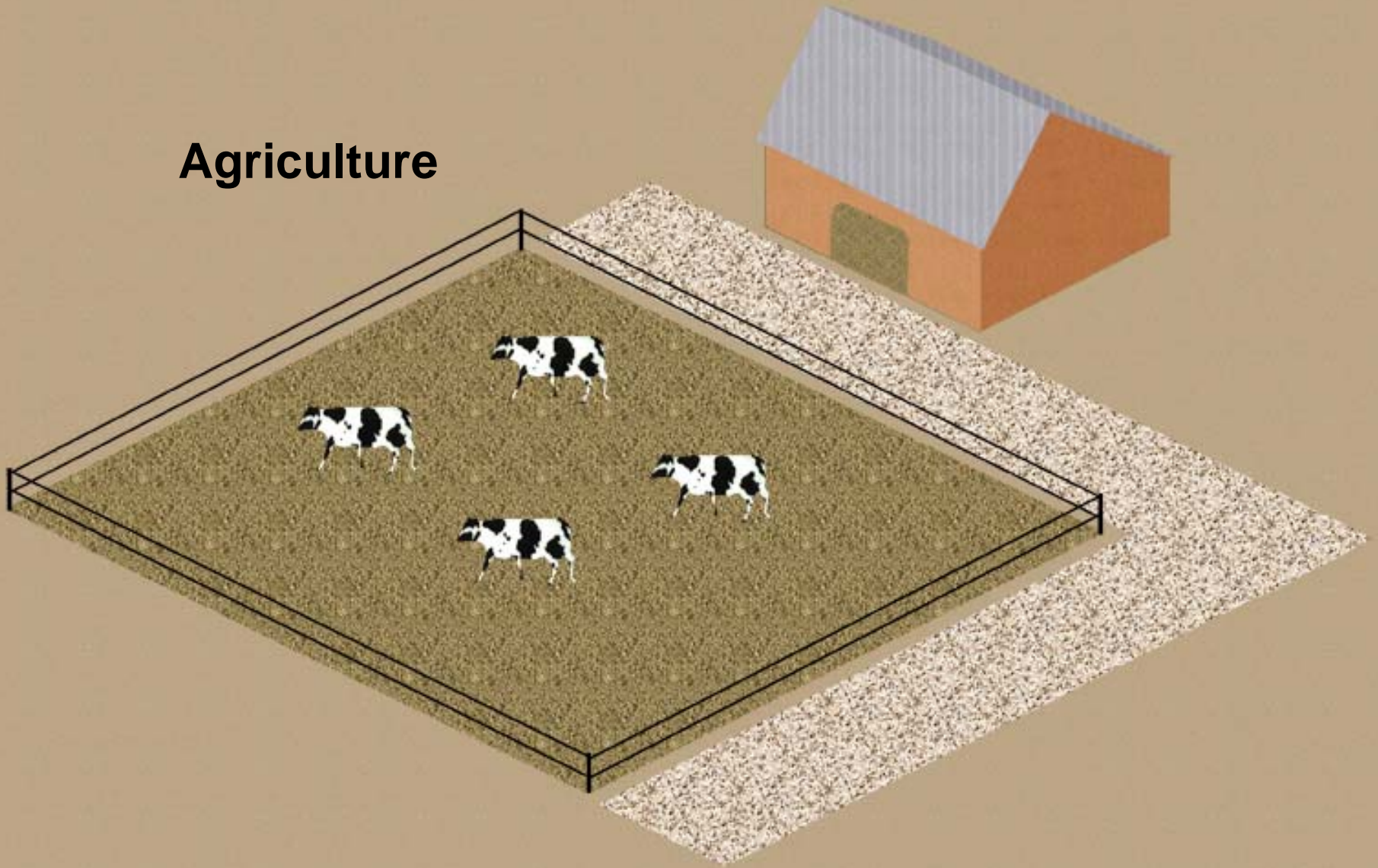


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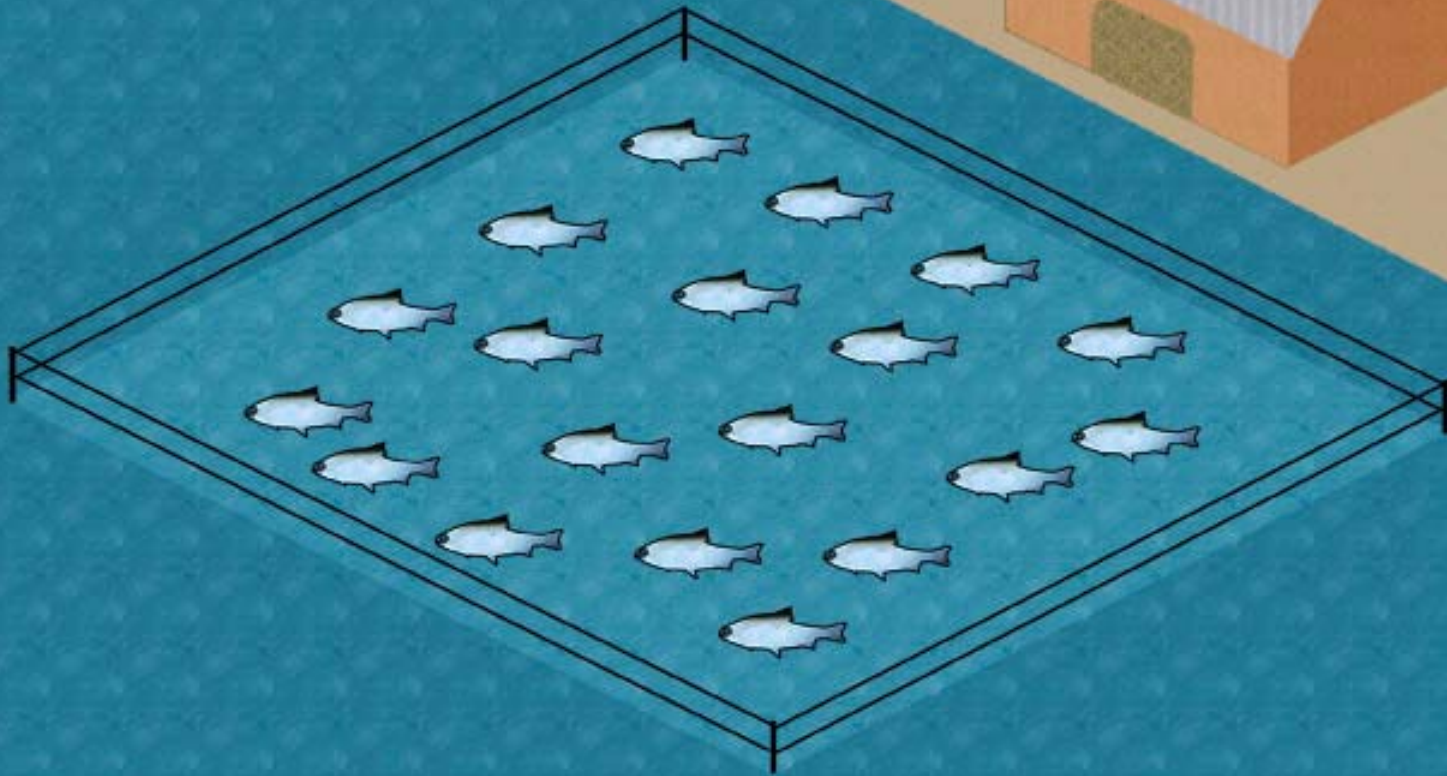




Agriculture



Aquaculture





144
million tonnes

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N

144
million tonnes

T
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CAPTURE
FISHERIES

92

million tonnes

144
million tonnes

T
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AQUACULTURE
PRODUCTION

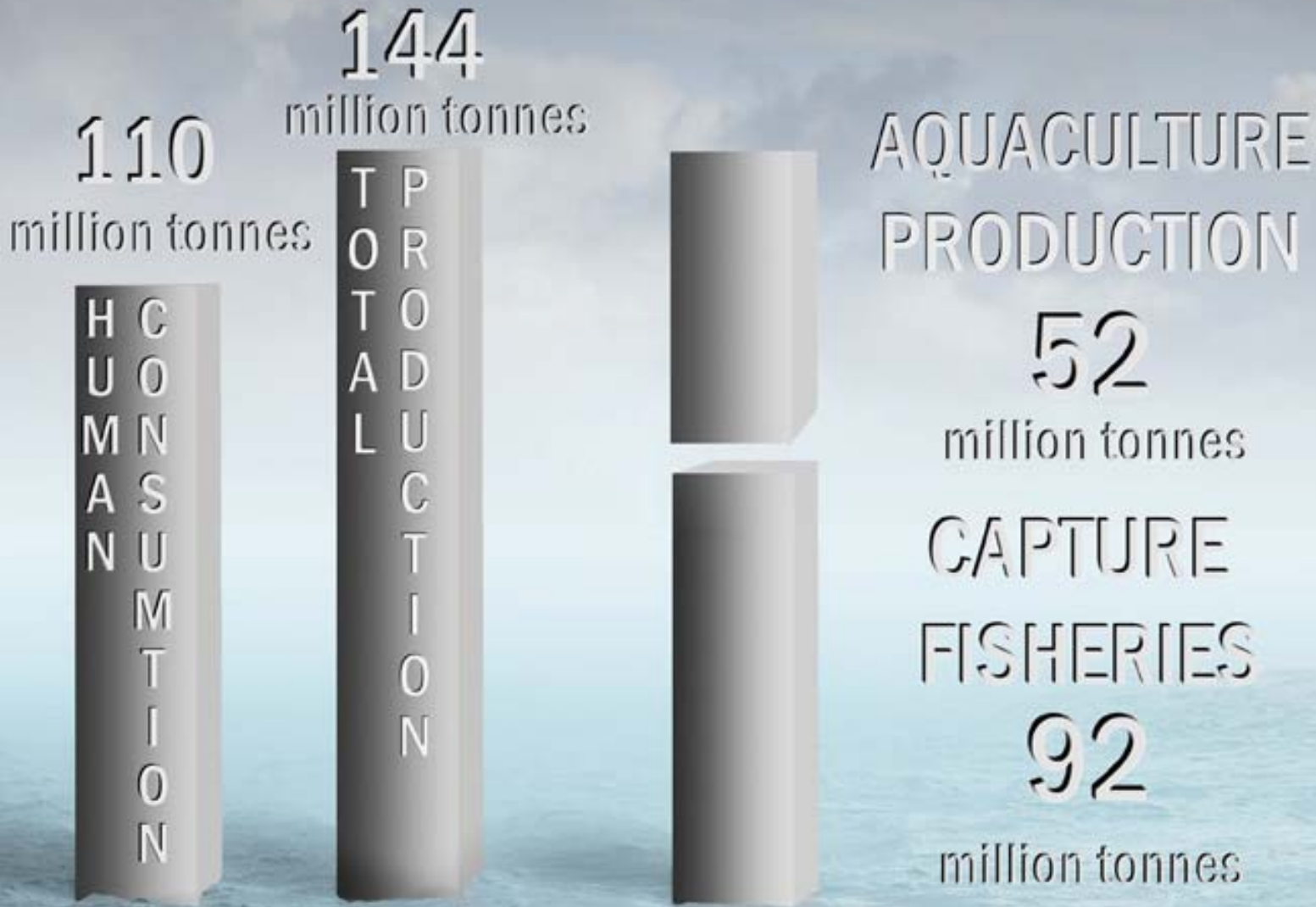
52

million tonnes

CAPTURE
FISHERIES

92

million tonnes



SEAFOOD CONSUMED BY HUMANS

50%

FROM
AQUACULTURE

50%

FROM
FISHERIES

AQUACULTURE PRODUCTION





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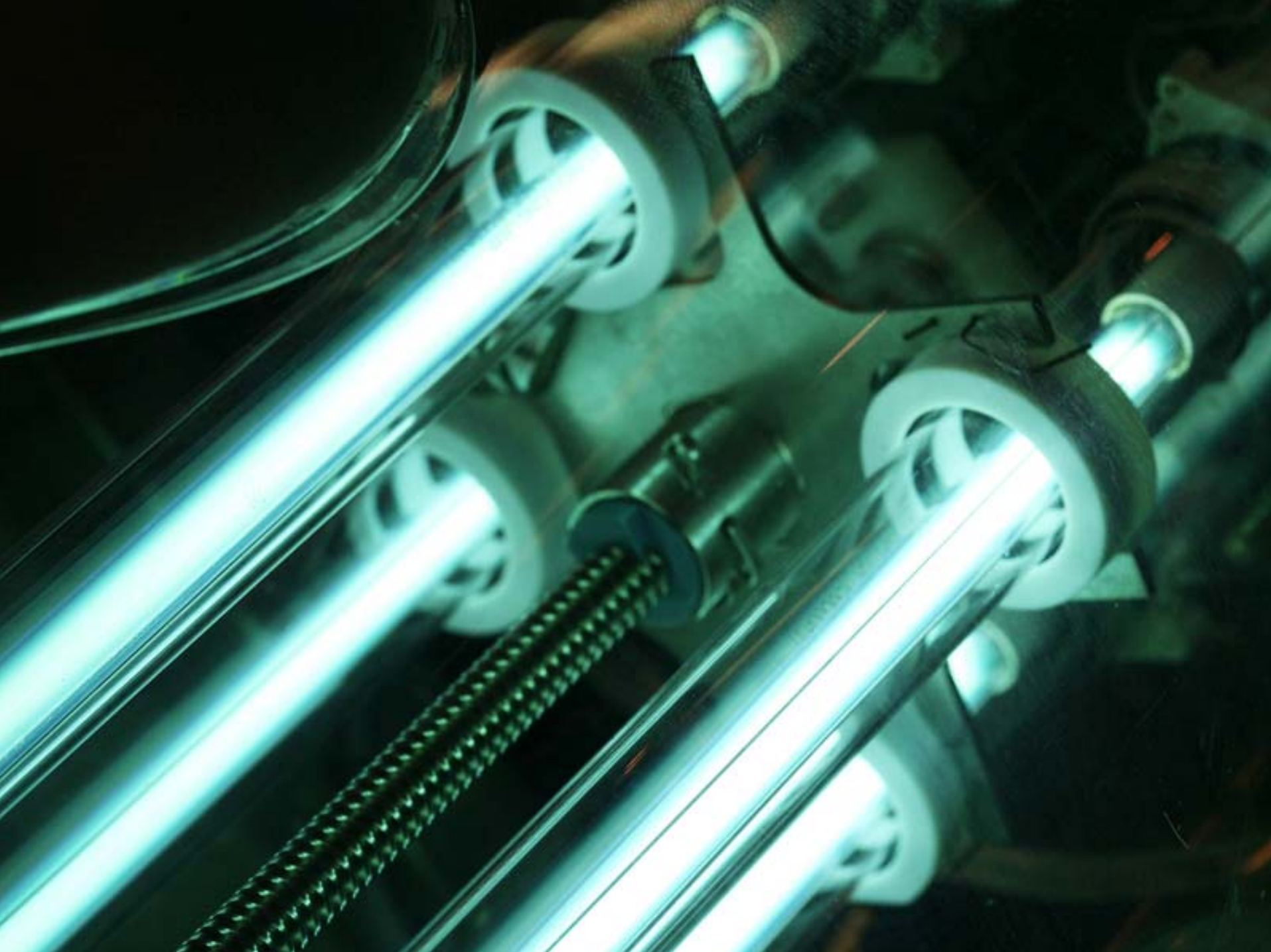
AQUA

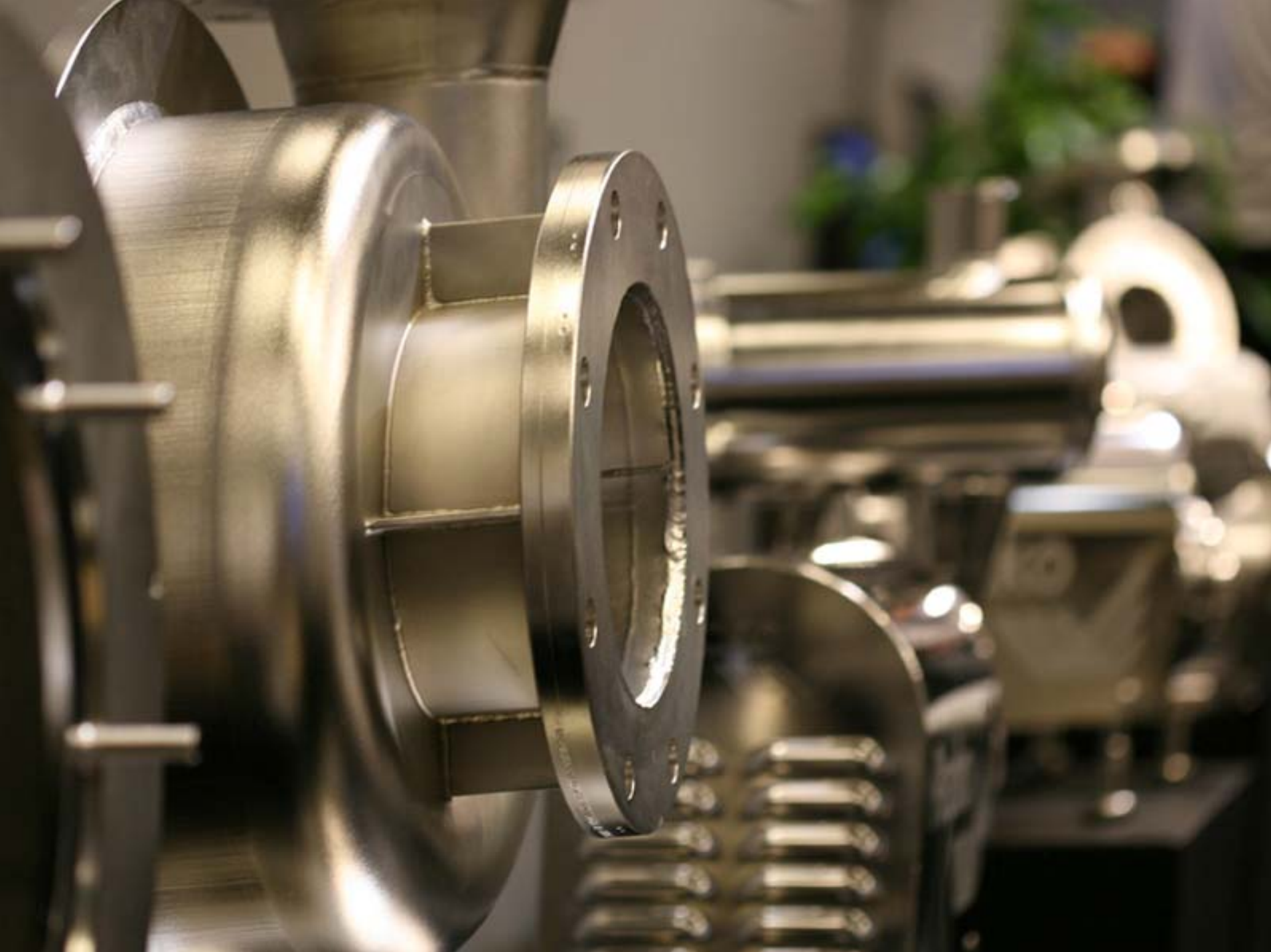
1979 - 2009

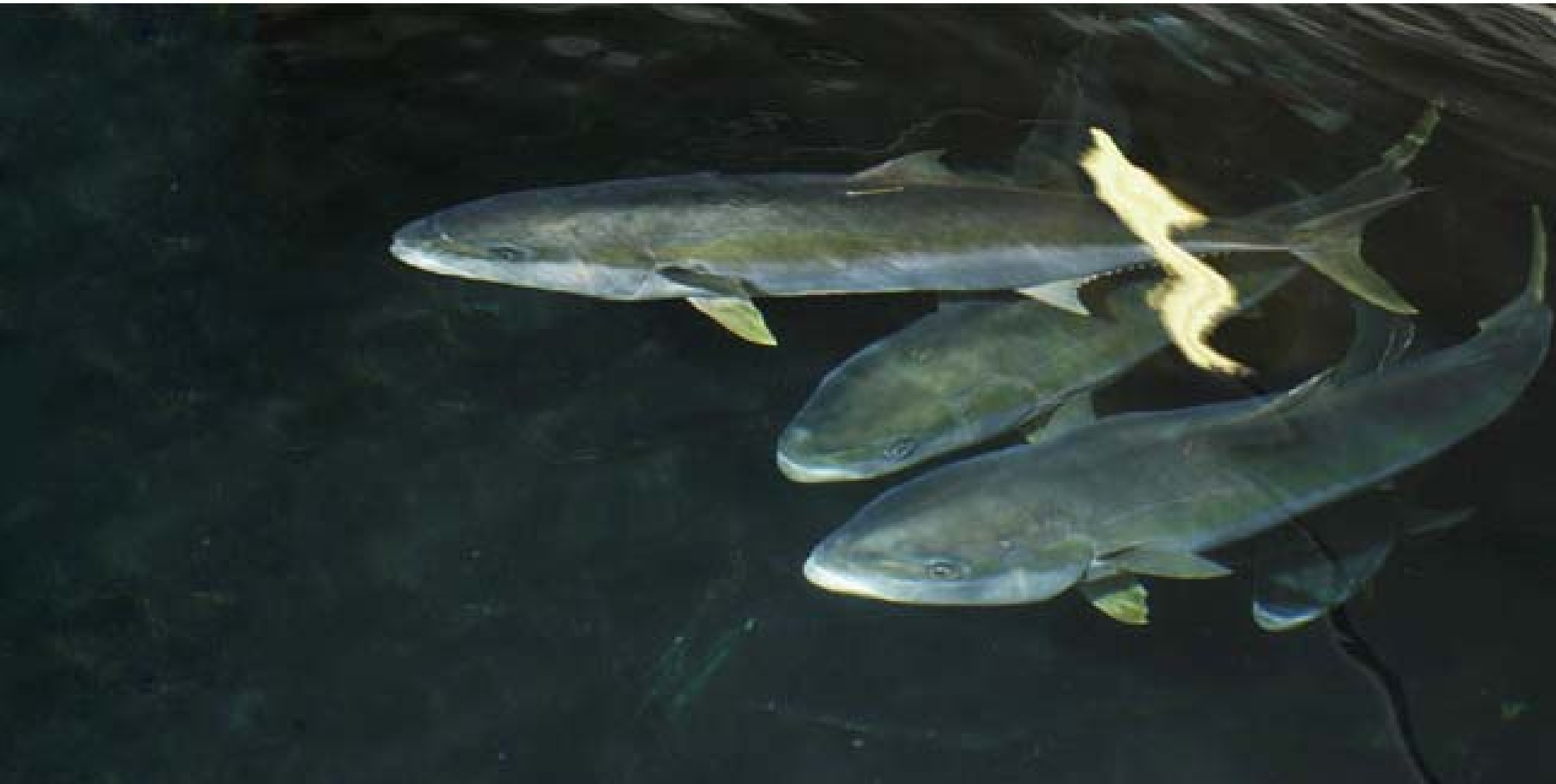
30 YEARS

for the aquaculture industry

TRONDHEIM SPEKTRUM











Svein Ludvigsen

Minister of Fisheries 2001-05



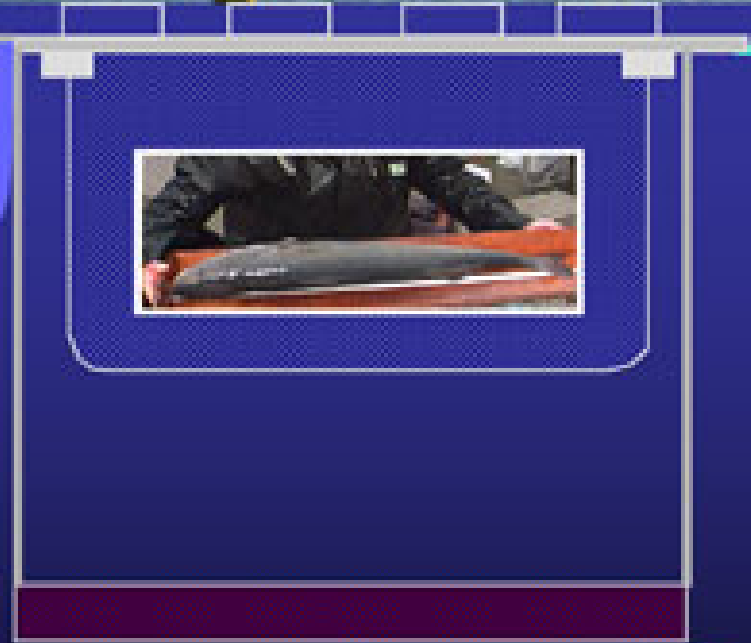
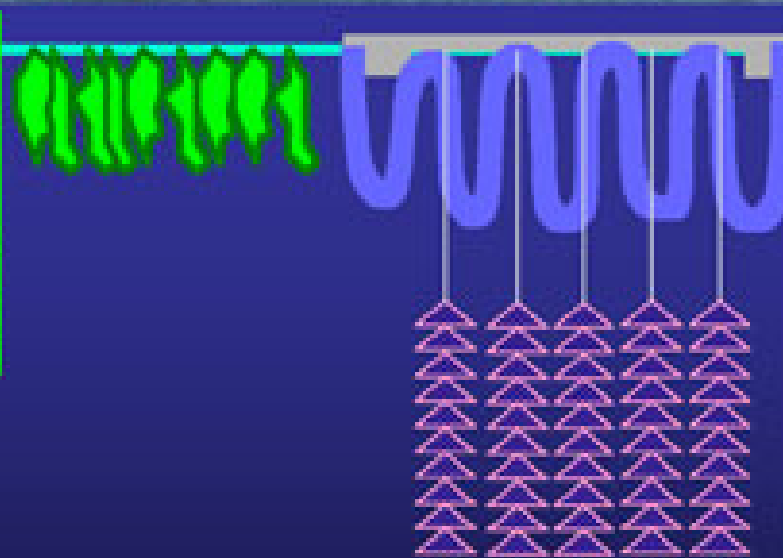
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**University of New Brunswick
& Fisheries & Oceans Canada
Bay of Fundy IMTA Project**



Pacific SEA-lab



Acadian Seaplants



Acadian Seaplants



Atlantic Veterinary College

2008 Research Report

Creating Knowledge



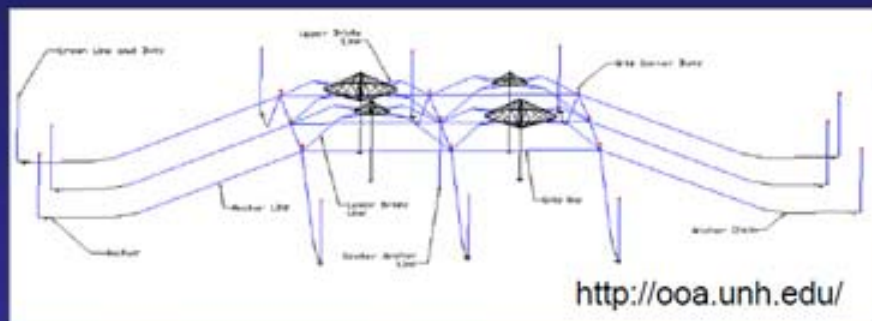
people • excellence • impact

UPEI
UNIVERSITY
of Prince Edward
ISLAND

Aqua Health Ltd



What about aquaculture? A lot has been learned.

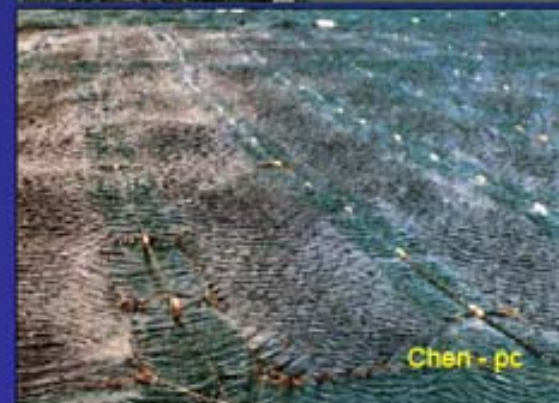
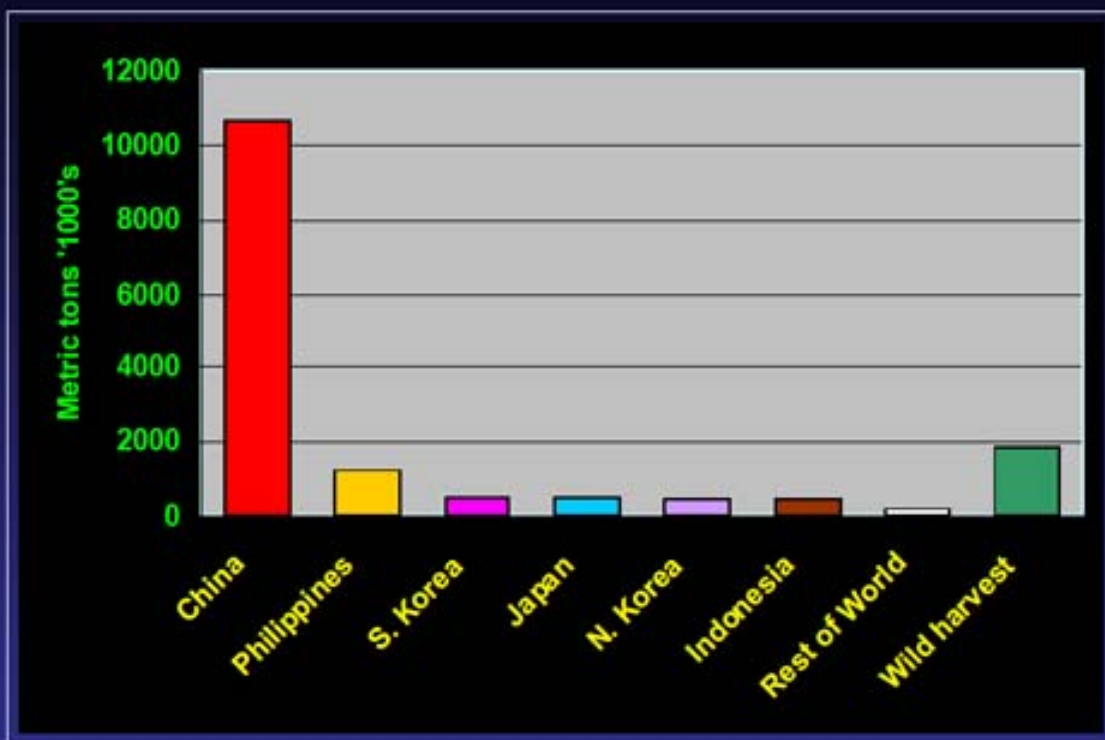


OCEAN FARM 2100



Can we now apply that learning to emulate agriculture and make a more substantial contribution?

Current world seaweed production



- ❑ Total production 15.7 mmt.
- ❑ China produces 77%.
- ❑ Most eaten by people, or processed for marine colloids.

Ocean Farm Technologies



Massachusetts Institute of Technology (MIT)





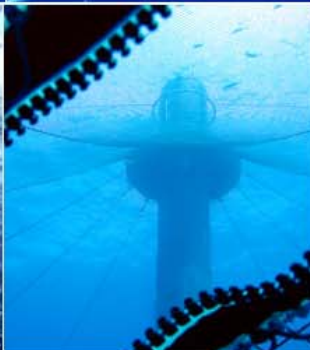
BERON
[tomorrow's protein]

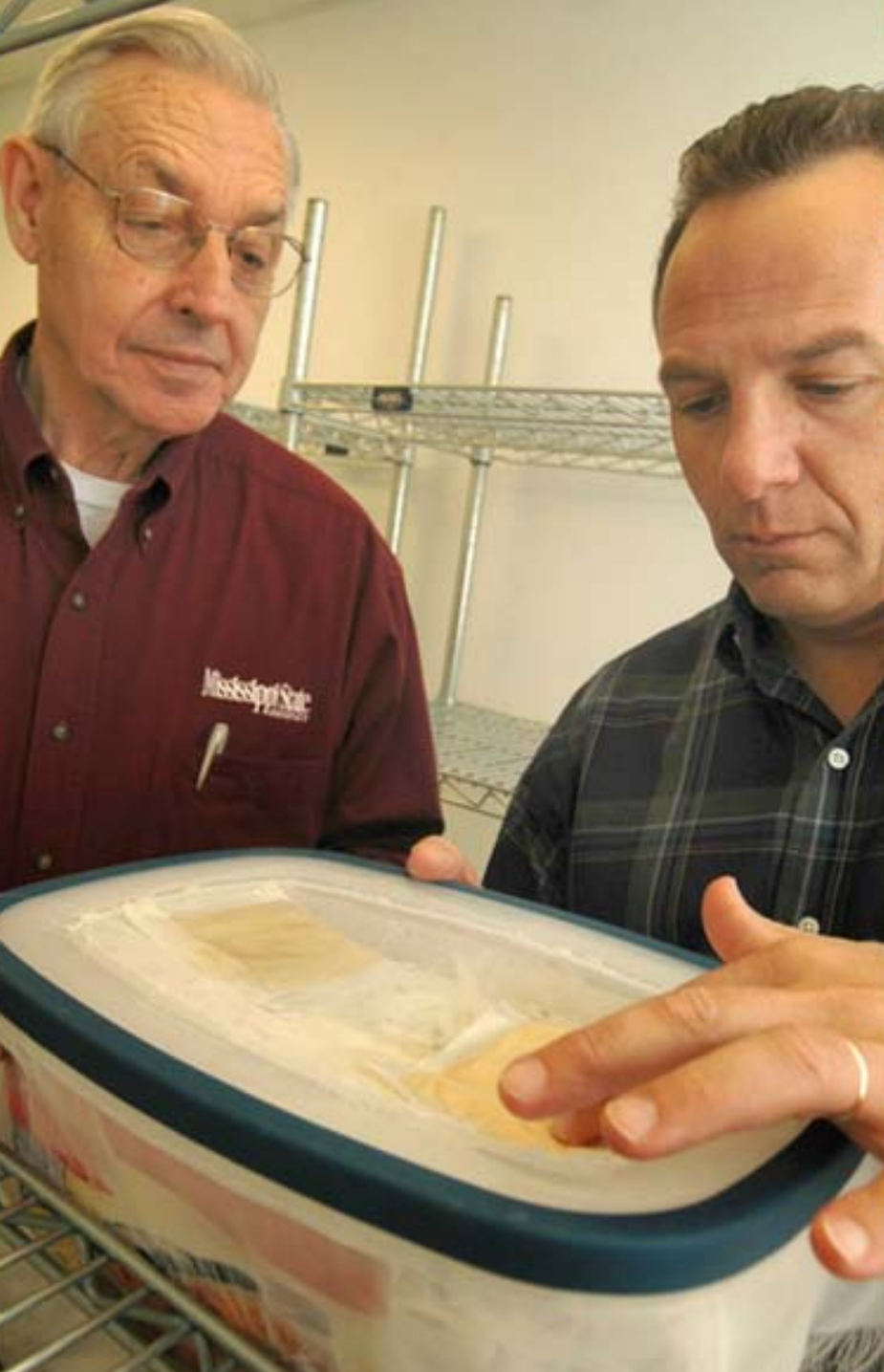


Open Blue Sea Farms



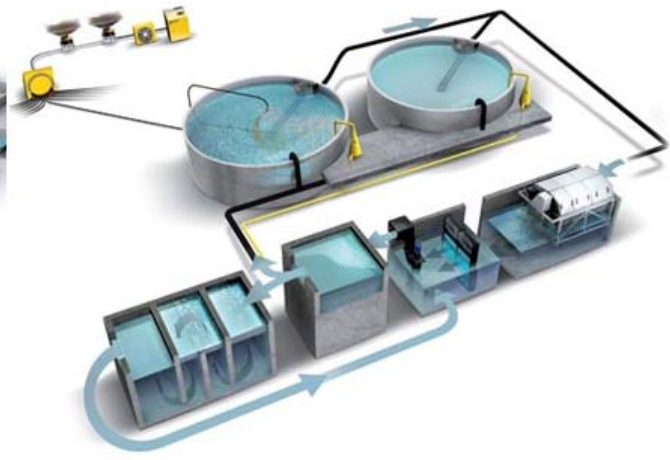
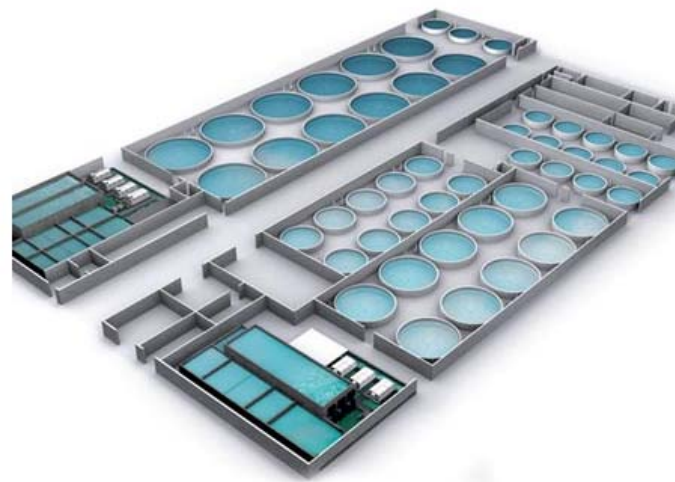
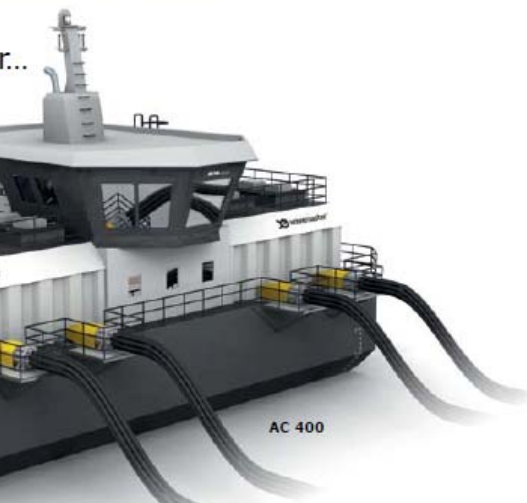
OceanSpar





Neptune Industries



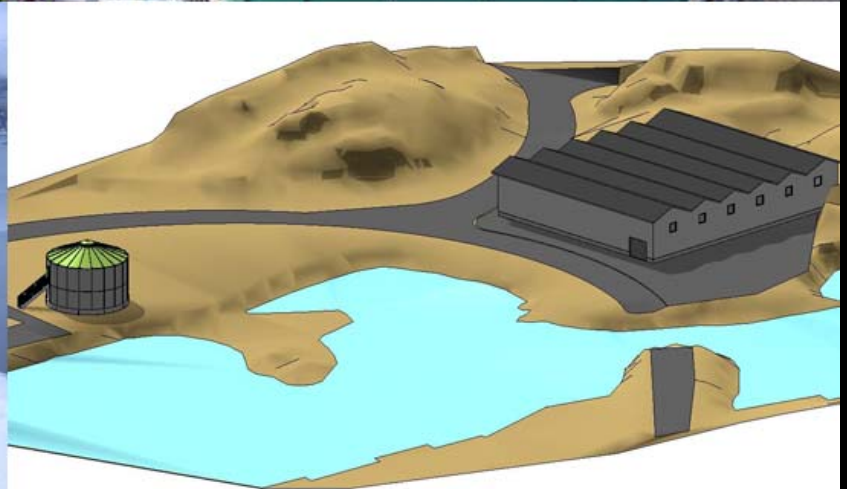


AquaOptima





Norwegian Lobster Farm





såkorn for livskraft og lønnsomhet • såkorn for livskraft og lønnsomhet
seeds of vitality and profitability • seeds of vitality and profitability

såkorn for livskraft og lønnsomhet • såkorn for livskraft og lønnsomhet
seeds of vitality and profitability • seeds of vitality and profitability
siembra de vitalidad y beneficio económico • siembra de vitalidad y beneficio económico



AquaGen™



SCIENCE & TECHNOLOGY TRANSFER



AQUACULTURE WITHOUT FRONTIERS



dr. M.K. shrestha instruct about pond construction in dhamilikuwa



Network of Aquaculture Centres in Asia-Pacific (NACA)





Southeast Asian Fisheries Development Center Aquaculture Department SEAFDEC/AQD





**The Norwegian Institute of
Food, Fisheries and Aquaculture Research
Nofima**



Akvaplan-NIVA



Akvaplan-NIVA



FAO ESTIMATES OF FOOD NEED

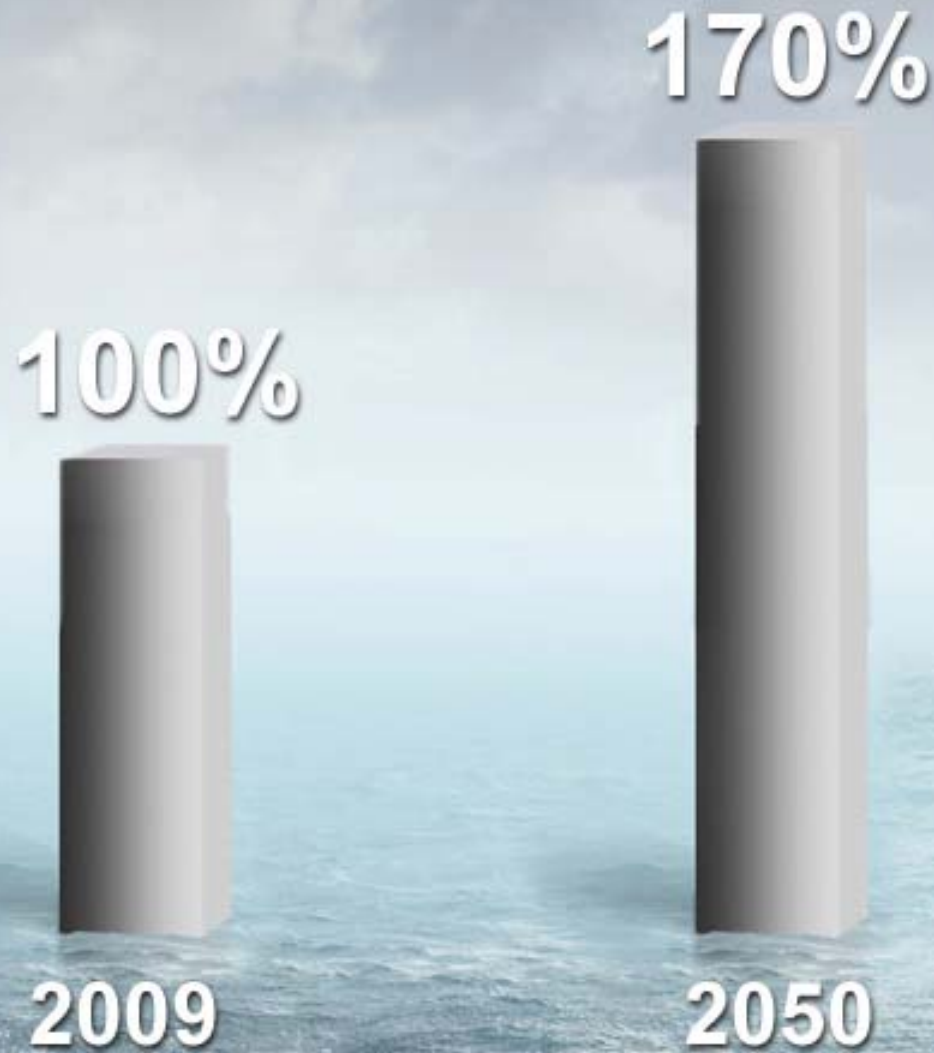




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ORBIT

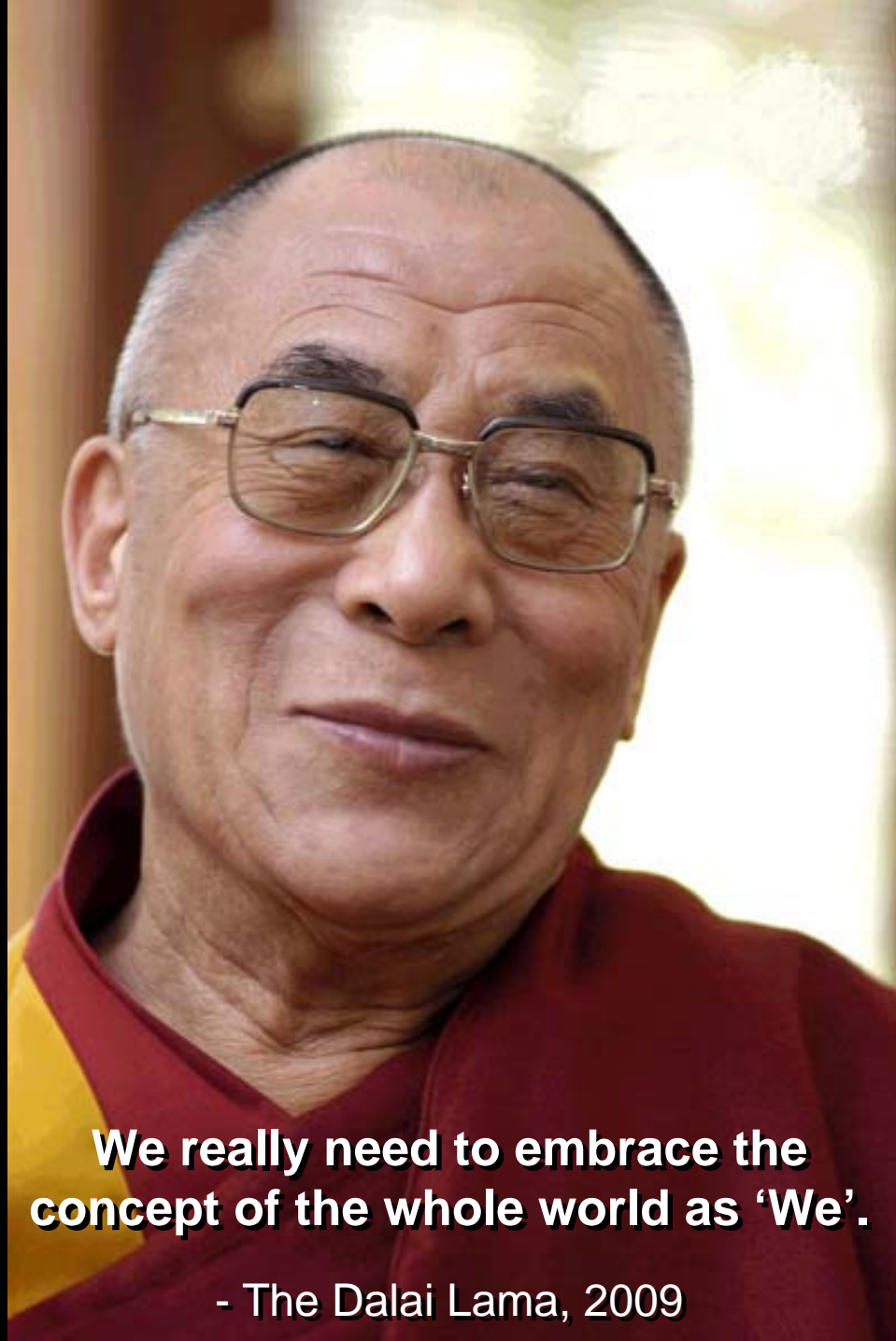
AppCam

a deeper view

losn

ORBIT

ORBIT



**We really need to embrace the
concept of the whole world as 'We'.**

- The Dalai Lama, 2009

THANK YOU



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