



Bioremediation



Aquaculture



Plant Nutrition



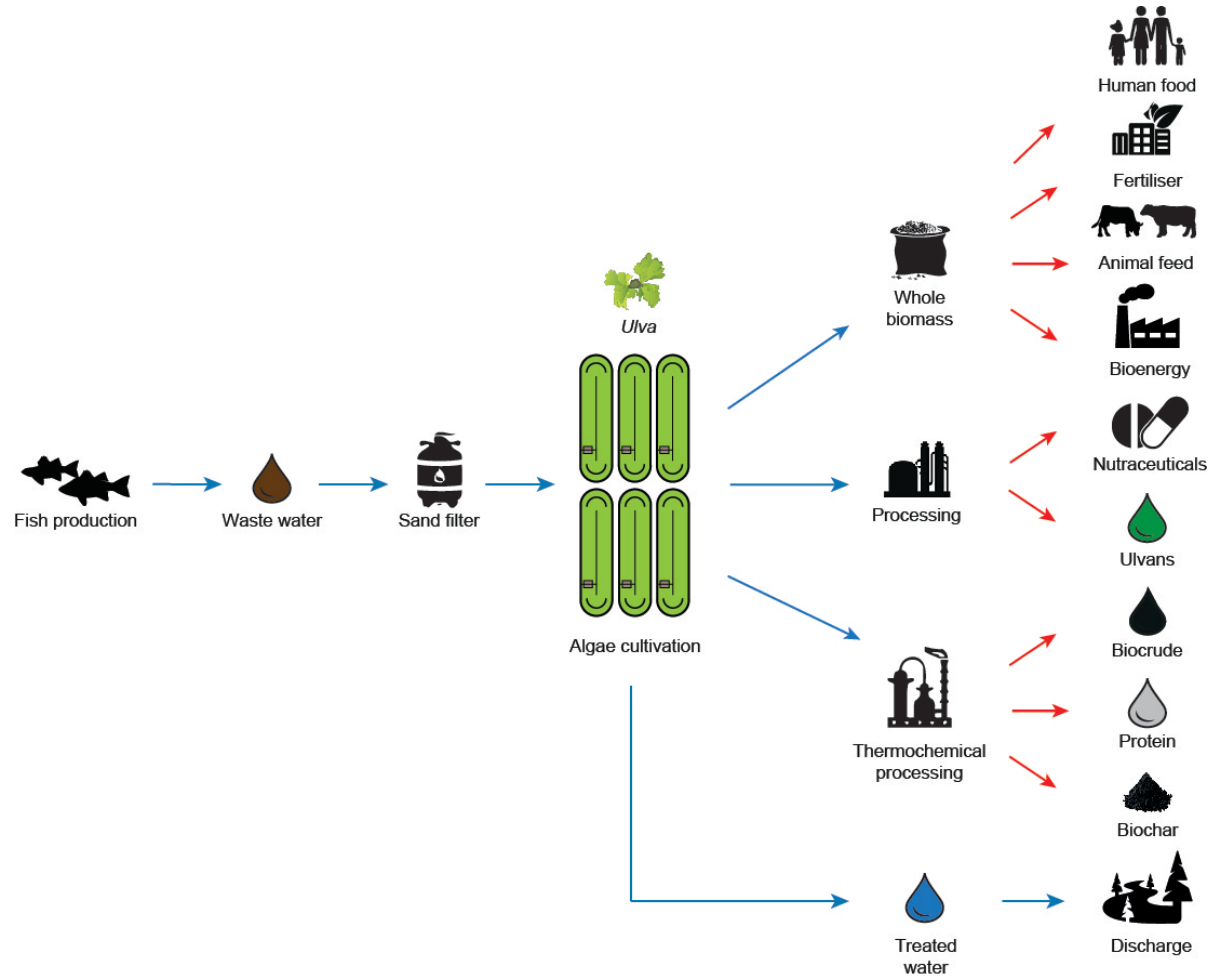
Human & Animal Nutrition



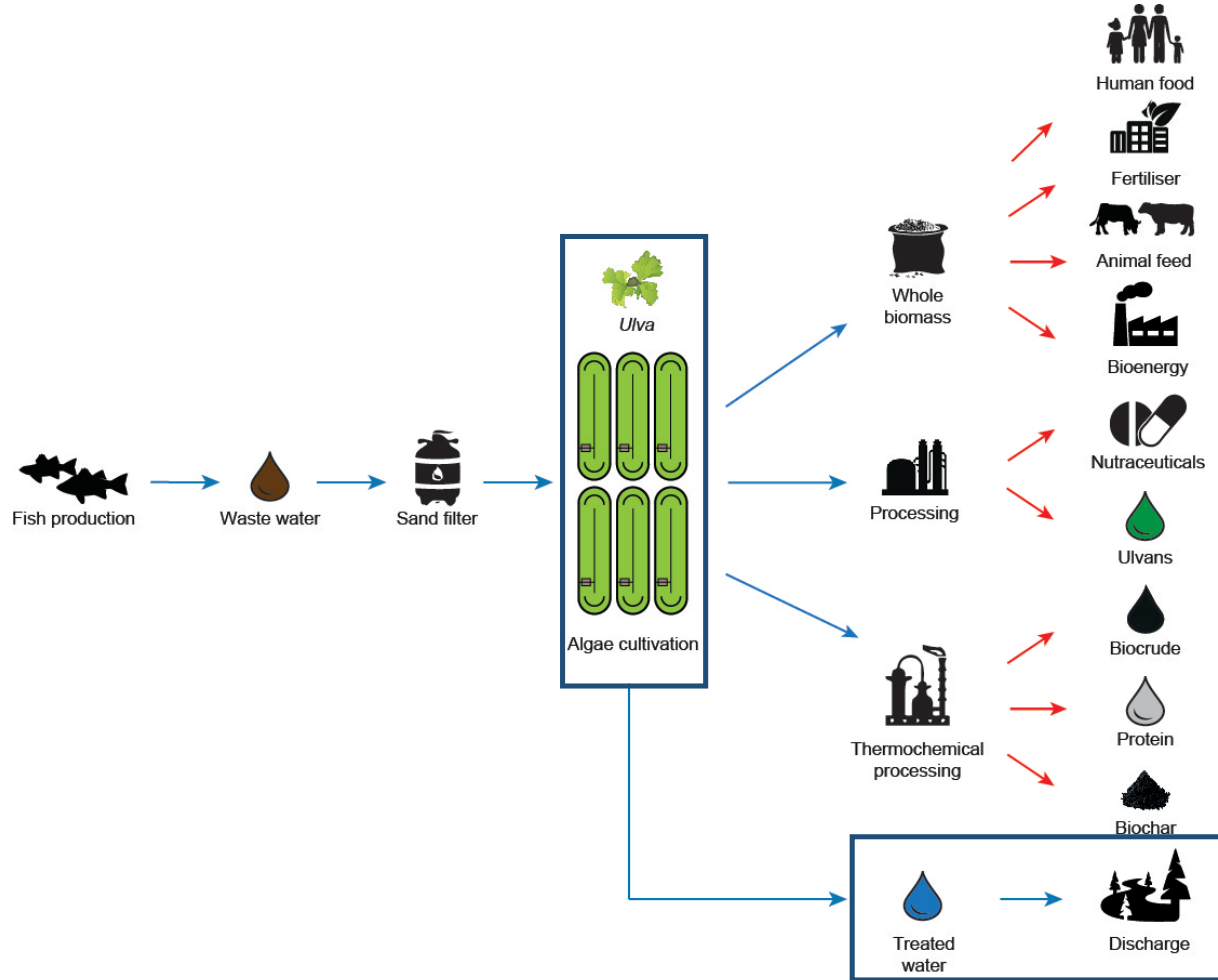
Bioremediation

Scale production of *Ulva* for bioremediation and bio-products

The integrated culture of seaweeds in land-based aquaculture



The integrated culture of seaweeds in land-based aquaculture



Selection of species

Ulva ohnoi

Pan-tropical

High temperature tolerance ~35° C

High growth rate

Variance in growth between locations

Variance in growth within locations

Potential to select strains

TSV strain to perform at high temp – low salinity

Ulva tepida



Selection of species

Ulva ohnoi

6 month intensive trial (13,000 L tanks)

1g (fw).L⁻¹ (7 days harvest)

38 g (dw) m⁻².day⁻¹

16 – 77 g (dw) m⁻².day⁻¹

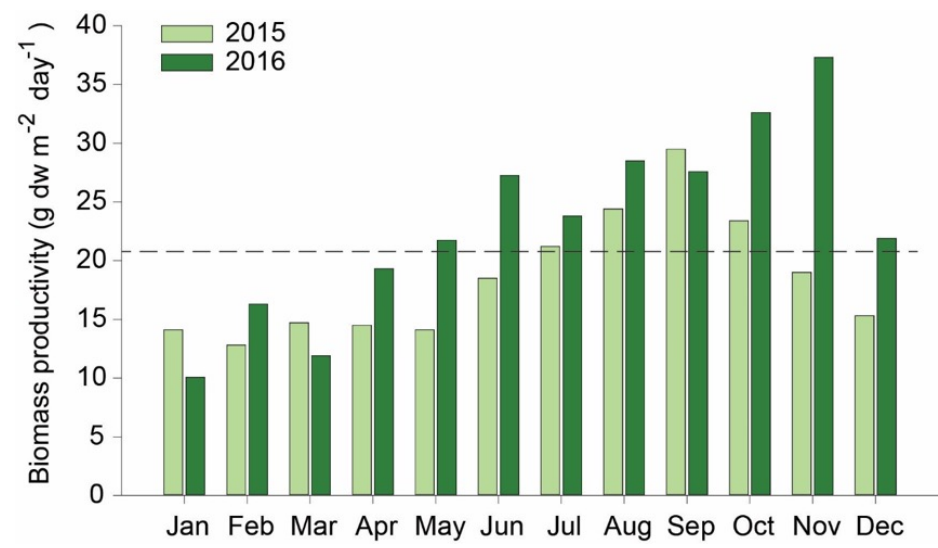
28° C optimum

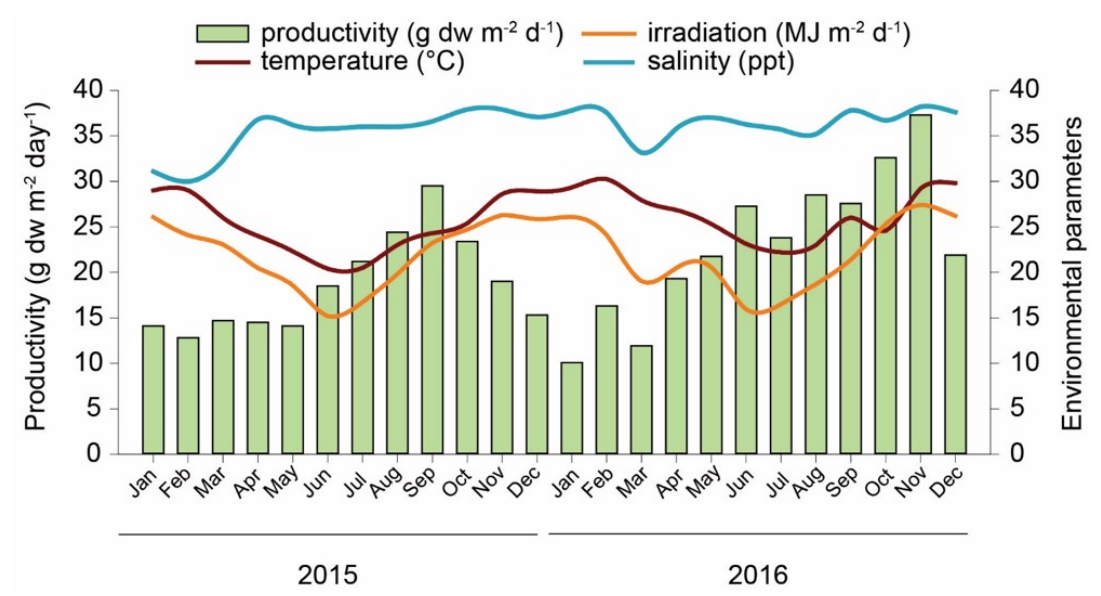
12% ulvan

13% protein









Pacific Reef Fisheries



Existing farm

30 hectares of new production

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New farm

Guthalungra

260 Ha site with 23 Ha of seaweed

~ 2500 tonnes of prawns

~ 1700 tonnes (dw) of *Ulva ohnoi*

Product development and value optimisation



Alva Beach Facility – 200 m x 12 m x 0.35 m





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