



Smart Ecosystems for Seaweed and Oysters

Integrating cultivation of complementary species and building in uses for by-products



Marine
Management
Organisation

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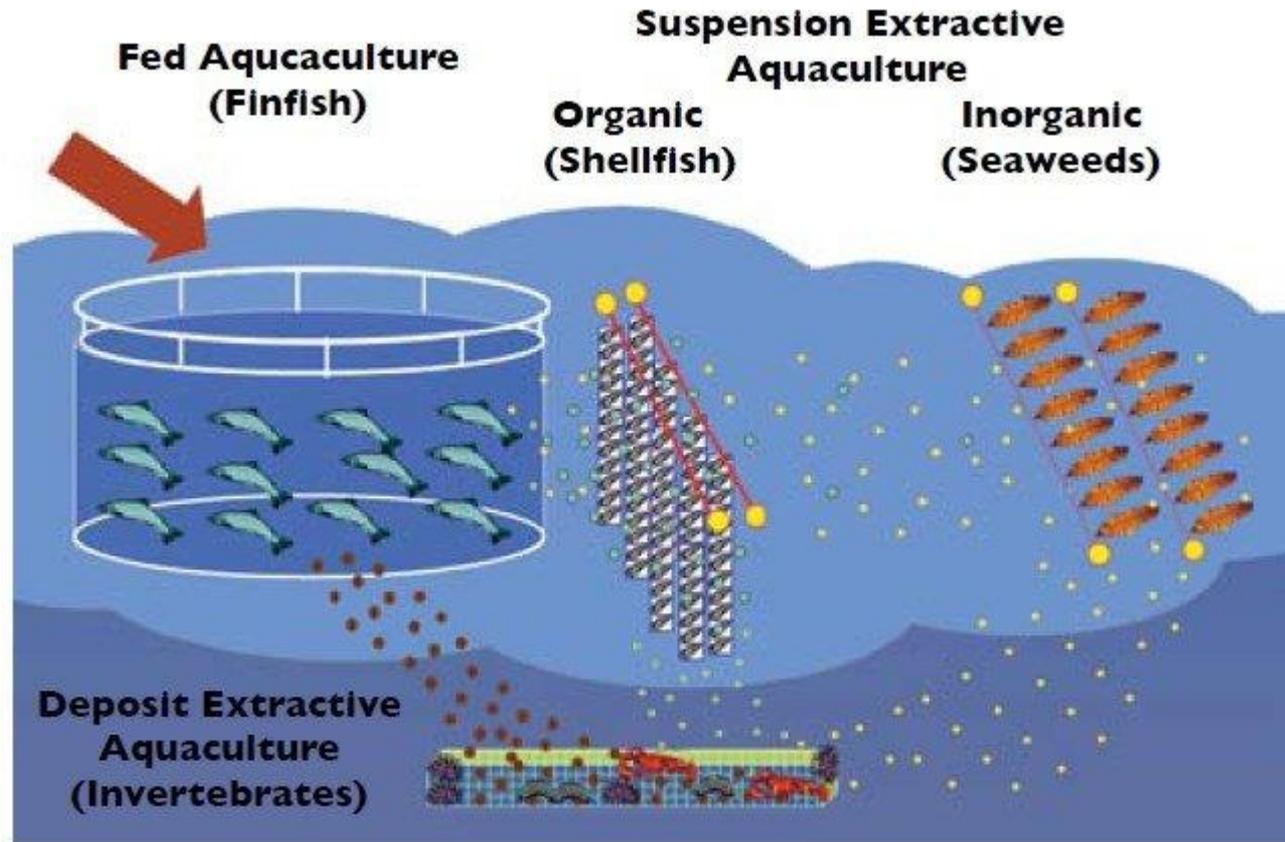
Smart Ecosystems for Seaweed and Oysters



- Emerging aquaculture sector in Dorset
- Primary focus likely to be:
 - Shellfish
 - Seaweed
- Opportunity for Integrated Multi-trophic Aquaculture farm
- Local Pacific oyster farm (*Crassostrea gigas*) already very successful



What is IMTA?



Improving Urban Resilience in Coastal Eco-Cities: System Integration - Scientific Figure on ResearchGate.
Available from: https://www.researchgate.net/Integrated-Multi-Trophic-Aquaculture-Chopin-2010_fig22_260930327 [accessed 15 Nov, 2018]

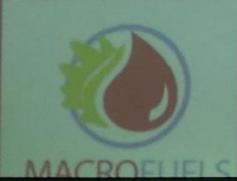


How as FLAG helped?

- Facilitated workshops for the sector
- Introduced Pacific oyster farmer to seaweed farmer
- FLAG Funded aquaculture industry delegation to Scottish Seaweed Alliance conference
 - Already an established sector in Scotland
 - Information and knowledge sharing key
 - Industry representatives



SAMS seaweed cultivation workshop
15th November 2018

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The Bio-fouling issue



- Non target species out competing farmed species
- Usually, non target species is removed and discarded
- Is there a use for this bio-fouling?

A New Resource to Aid in the Identification and Management of Aquaculture Production Hazards - Scientific Figure on ResearchGate. Available from: https://www.researchgate.net/b-Seaweed-long-line-fouled-with-non-target-seaweeds-and-other-epiphytes-sarah-redmond_fig4_296089219 [accessed 15 Nov, 2018]



Uses for bio-fouling

- High end cosmetics
- Organic concentrated fertilizer
- Food additives





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