



Eutrolife Circular water treatment

BY: MIMICREW







Problem









Industrial discharges

Fish Farming

Fertilizers

Problem





Excessive biomass growth



Death in the ecosystem

Problem





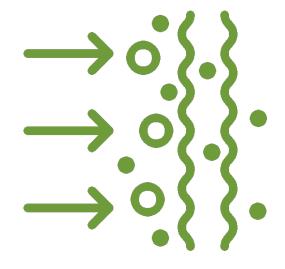


Death in animals

Health issues

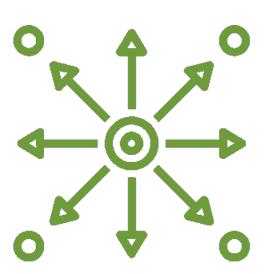
Biomimicry





Filtering



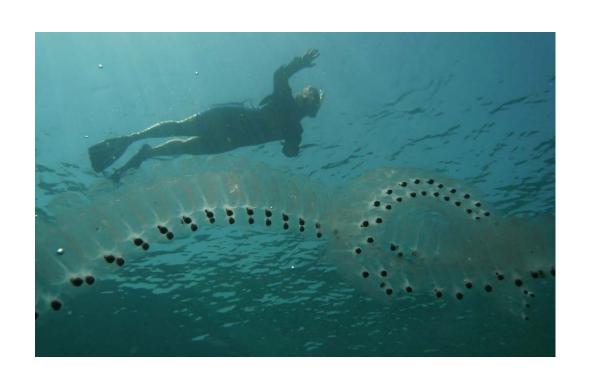


Distributing





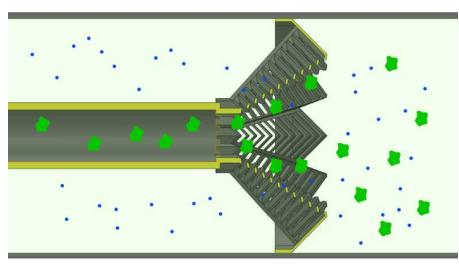
Clustering



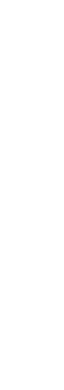
Eutrolife solution



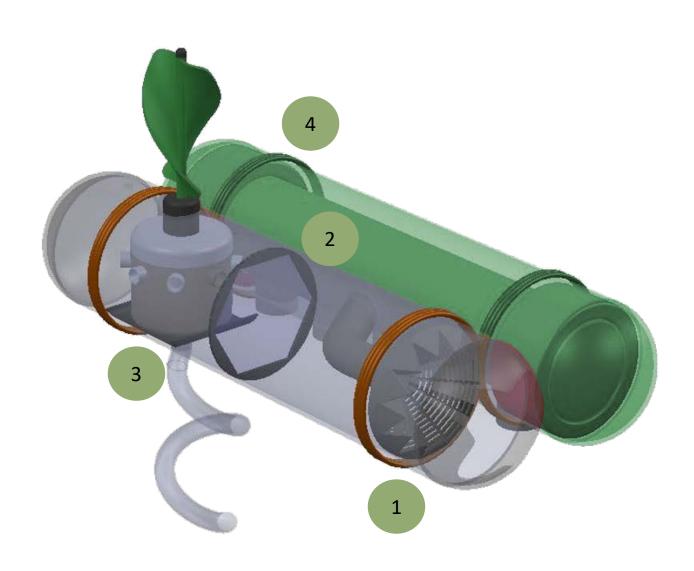
1



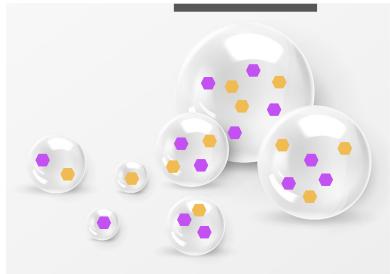
Size exclusion filter (Inspired by Devil rays)



Nanofilter (Inspired by the Salps)

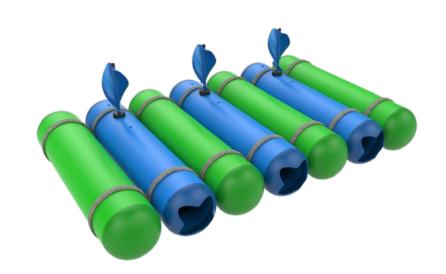


1.5 cm



Immobilized nutrients in polymer

4



Optimization through clustering



Water treatment competitors



	Eutrolife Eutrolife	UGSONIC Leading in ultrasonic algae control	iohbac Soluciones Ambientales	SEVERN	VEOLIA
Low cost					
No use of harmful chemicals	l				
Easy to install					
Low maintain					
Up cycling waste					

Highlights of Eutrolife





Unique process

No need of separate steps



Non-disruptive solution

No need of harmful chemicals



Up-cycling waste

Converting waste into resources



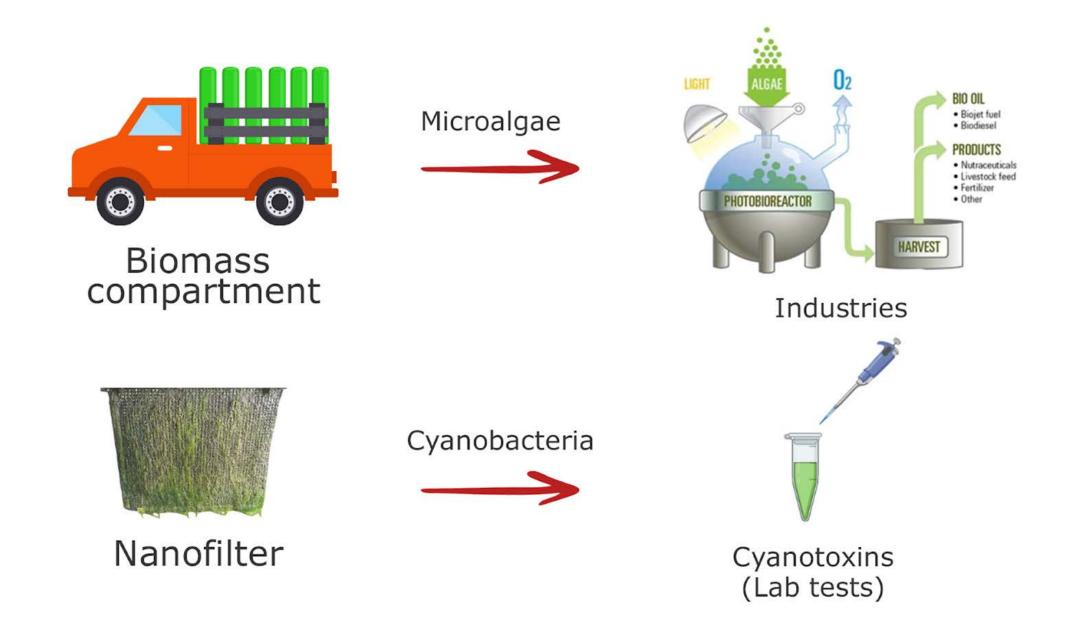
Positive social and economic impact

New job opportunities for locals

Two Markets

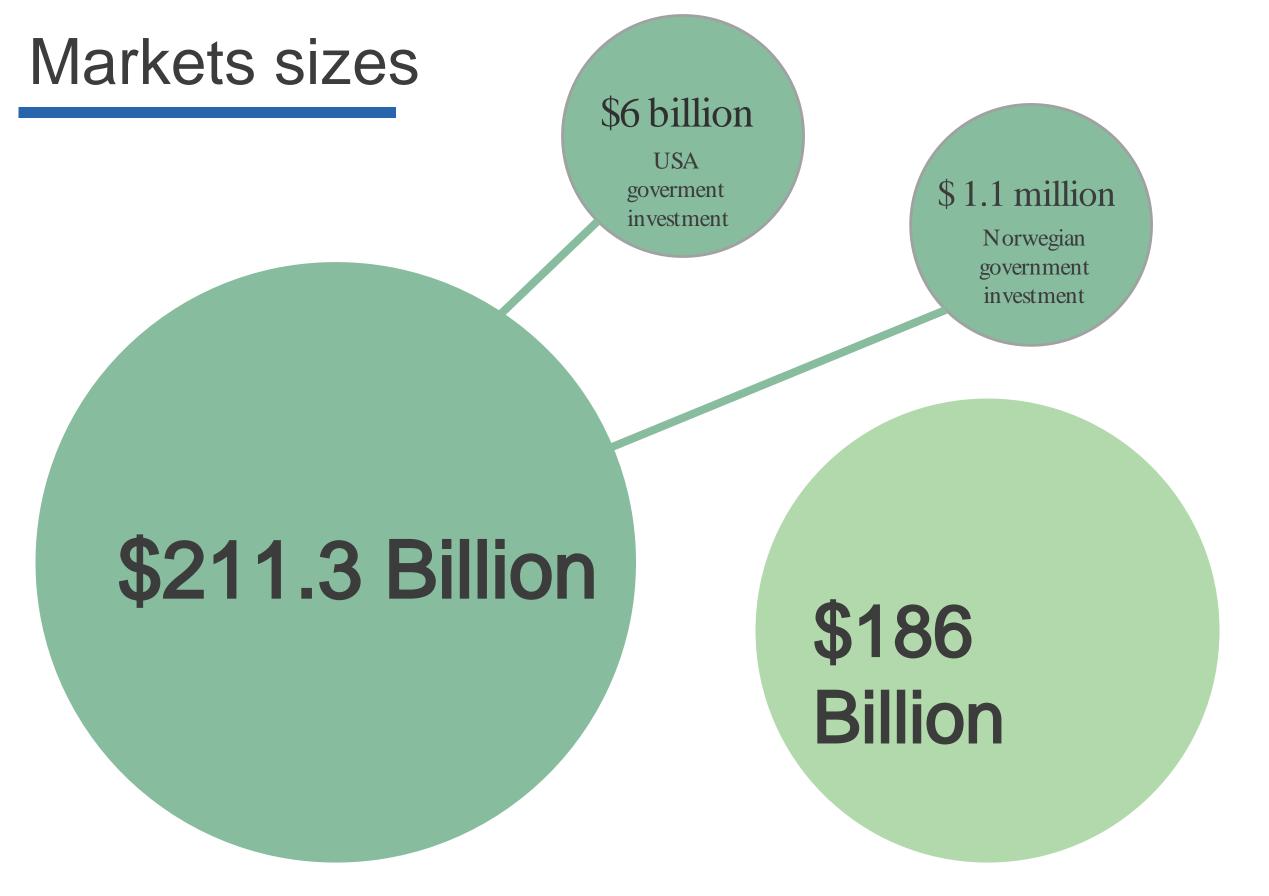






Water remediation

• Biomass: Algae, Cyanobacteria



Water and wastewater treatment global market by 2025

Bioremediation global market by 2023



\$5.17 Billion

Algae products global market by 2023

Investment



\$98,500
Initial investment

Item	Approx. price
Electrospinning equipment	200,000 USD *
Eutrolife device	20,000 USD
Start-up back up	50,000 USD
Lab supplies	28,500 USD

One-time expenditure

Eutrolife current status





3D Imprinted filter



3D profile



Microscopic aspect



Macroscopic appearance



Immobilization in beads



Polymerics beads

Improvements



Absorption Island

Mimicrew





Jennifer Balcucho Escalante David Sánchez Nielsen

Co-founder

Co-founder Architect

Industrial microbiologist Master in Biological Sciences





Sebastián Balcucho Escalante Joan Berrío Casilimas

Economist Biologist



Andrés Cardona Mora Civil engineer















