Dagskrá

SJÁVAR KLASINN

matís

09:30 opnun viðburðar

09:35 Rannsóknir og þróun – um verkefnið Örverur til auðgunar fiskeldisseyru.
Anna Berg og Alexandra Leeper

09:50 Accelwater – hliðarafurðir fiskeldis.
Hildur Inga Sveinsdóttir og Ólafur H. Friðjónsson

10:05 *Kaffipása og spjall*

10:15 Kynning á framkvæmd og ástæðu vinnustofunnar

10:20- Spurningarvinna 1 – Styrkur hliðarafurða
10:35 samantekt hópa

10: 40- Spurningarvinna 2 – Veikleikar hliðarafurða
10:55 samantekt hópa

11:00- Spurningarvinna 3 – Tækifæri hliðarafurða
11:15 samantekt hópa

11:20- Spurningarvinna 4 – Ógnir hliðarafurða
11:35 loka samantekt og vinnustofu lýkur

11:40- *Hádegisverður og spjall*

Dagskrá

SJÁVAR KLASINN

matís

09:30 Welcome and opening of workshop -Alexandra

09:35 Research and development in sludge:

Örverur til auðgunar fiskeldisseyru- Anna Berg & Alexandra Leeper

09:50 Accelwater - Hildur, Stefan, Ólafur

10:05 *Coffee and networking*

10:15 Introduction to co-creation and the purpose the of day

10:20- Question 1 - Strengths
10:35 Summary

10: 40- Question 2 - Weaknesses
10:55 Summary

11:00- Question 3 - Opportunities
11:15 Summary

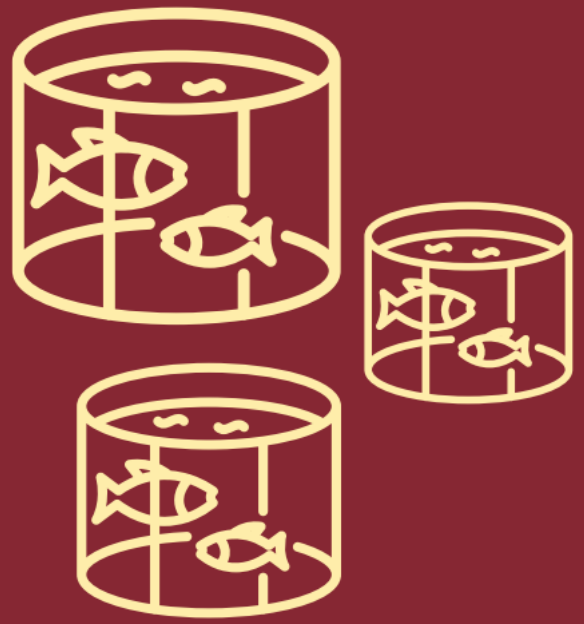
11:20- Question 4 - Threats
11:35 Final summary and closing of event

11:40- *Networking Lunch*

matís

ICELAND OCEAN CLUSTER

Technology and opportunities in fish farm sludge

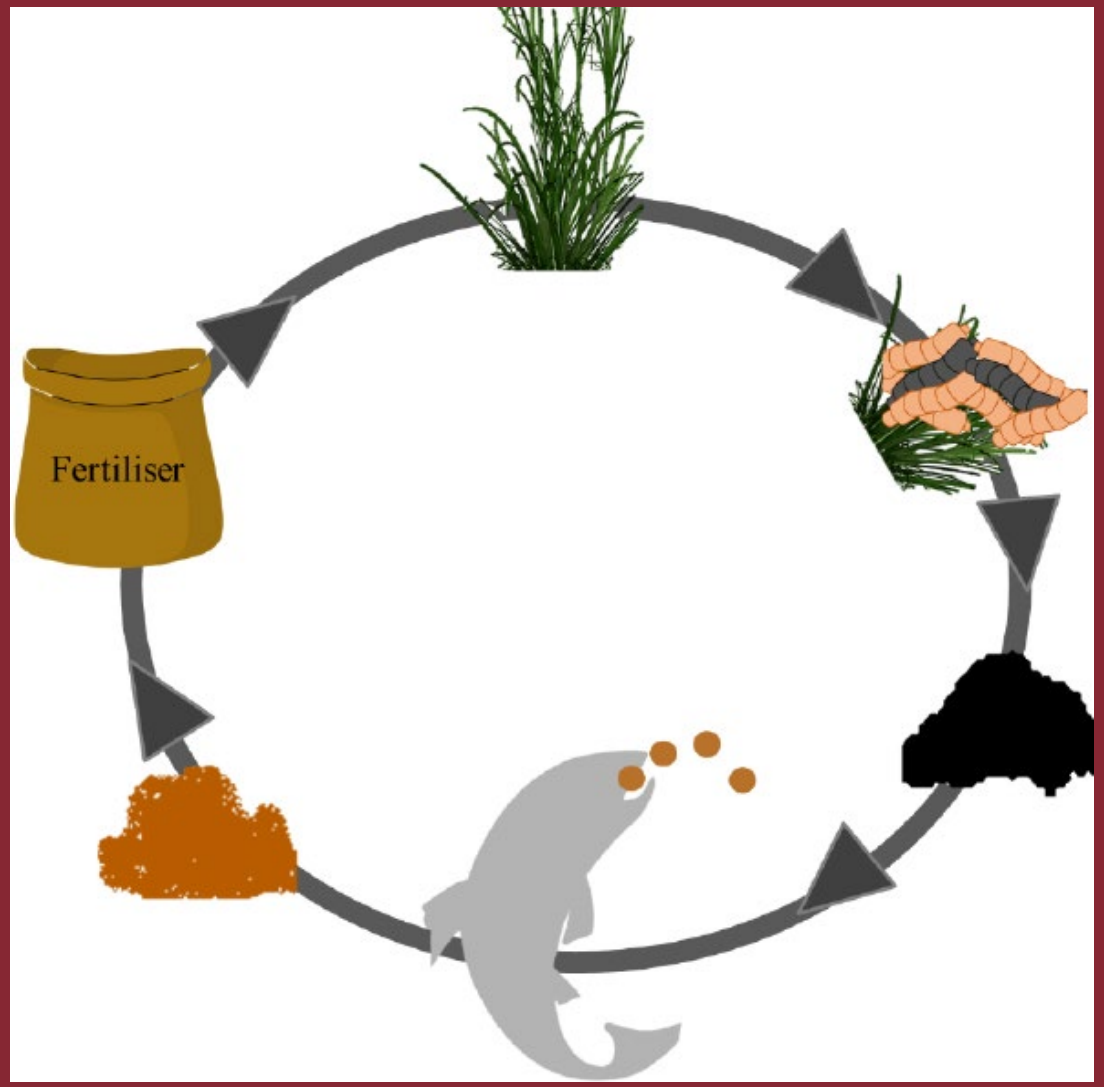


Dr. Alexandra Leeper – Managing Director of International Affairs

Sludge and circular economy

Leeper e tal., InPress

ICELAND OCEAN CLUSTER

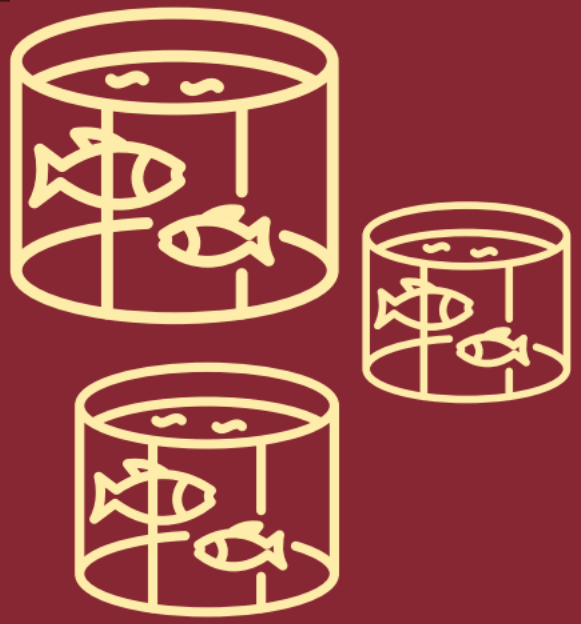


Sludge and circular economy

Leeper e tal., InPress

ICELAND OCEAN CLUSTER

Tipping point for political and funding incentive



Outline

ICELAND OCEAN CLUSTER

We have more ability to collect sludge than ever before

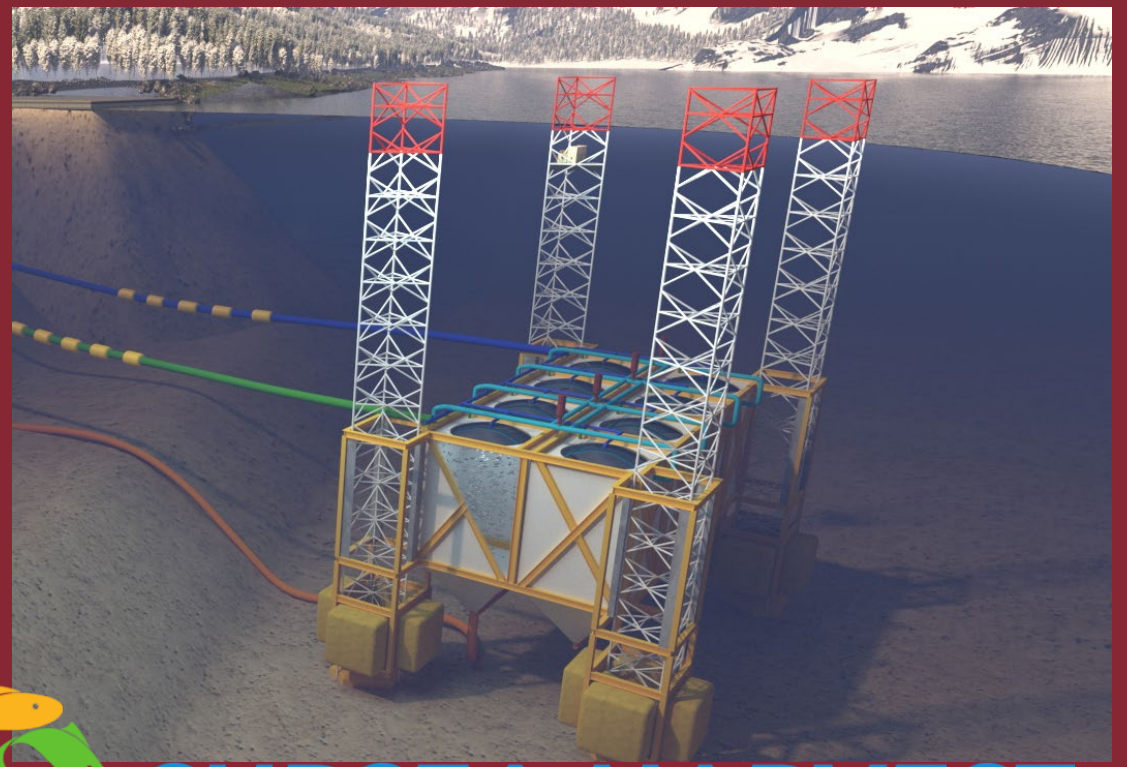
Collection from barges

BLUE OCEAN TECHNOLOGY

Bluehouse systems®

Technologies that allow in sea farming but closed-system

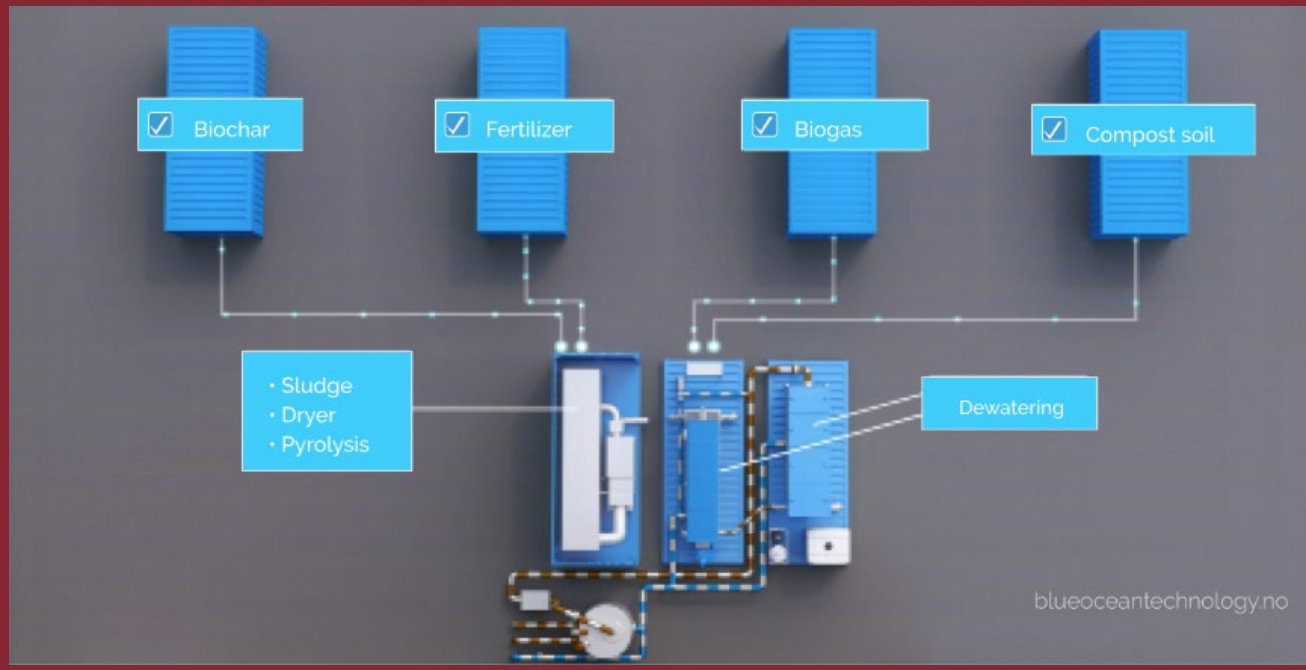
Technologies that allow in sea farming but closed-system



SUBSEA HARVEST

ICELAND OCEAN CLUSTER

Collection more accessible in landbased facilites



BLUE OCEAN TECHNOLOGY

Bluehouse systems®

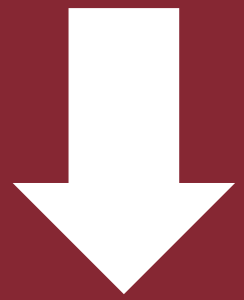
ICELAND OCEAN CLUSTER

Collection more accessible in landbased facilites

BIORETUR

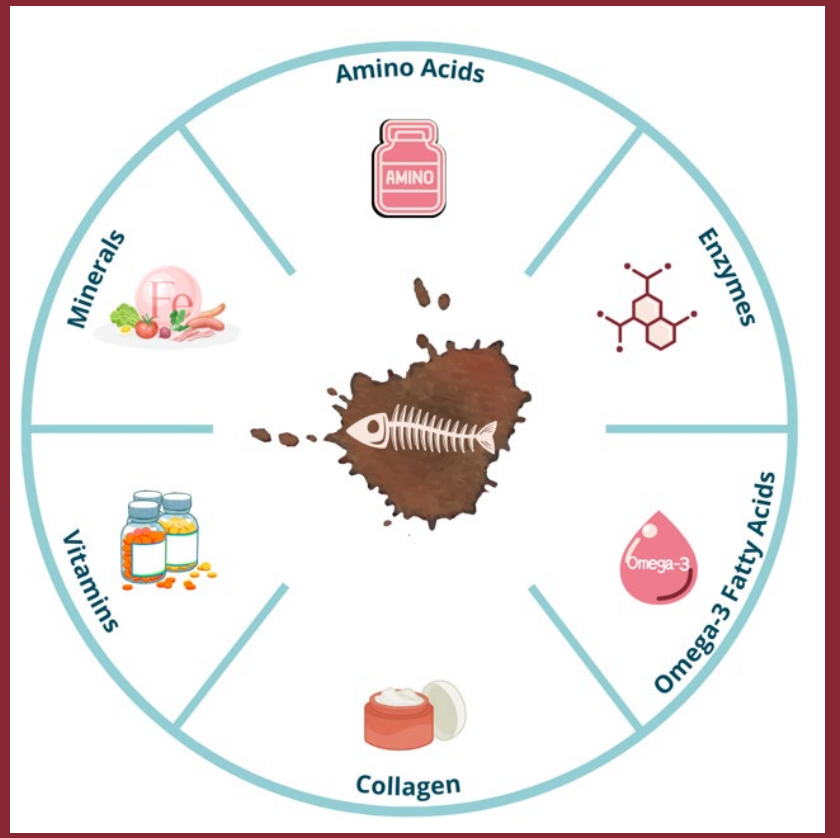
If we can collect it, we can transform or directly utilise it

- Concentration
- De-watering
- Drying
- Pyrolysis
- Downstream processing



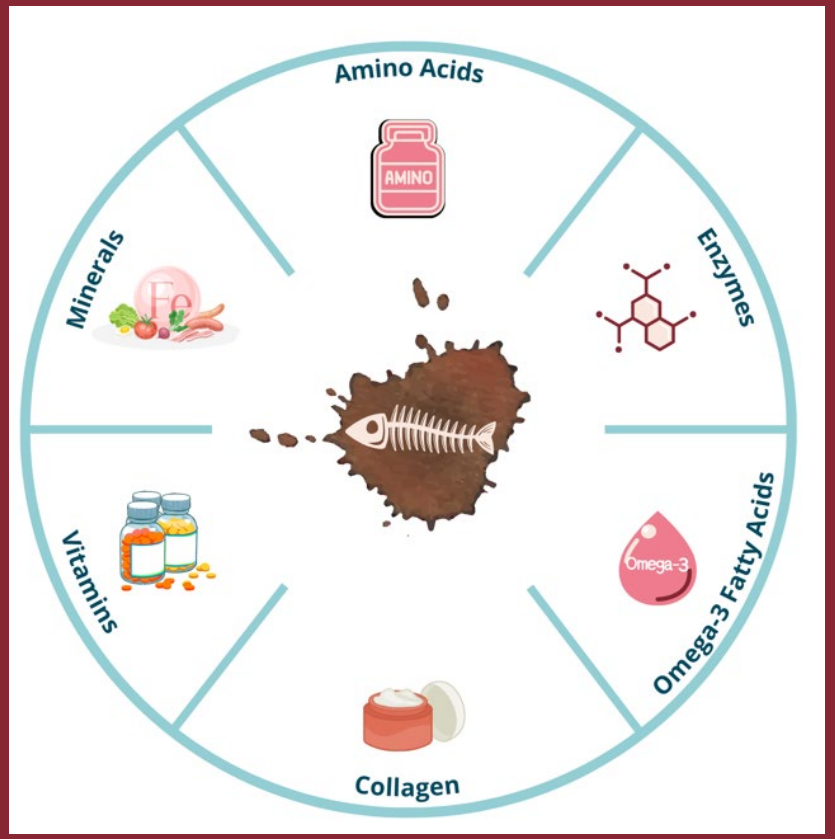
Sludge value creation

ICELAND OCEAN CLUSTER



Extending 100% fish

A wide range of functional or bioactive compound



Challenge

-Availability of processing infrastructure.
-Process efficiency.
-Cost and scale up & legislation

ICELAND OCEAN CLUSTER

Phosphorus Recovery & Fertiliser & biochar

Value chain follow through

BIORETUR

Phosphorus Recovery & Fertiliser & Biochar

Value chain follow through

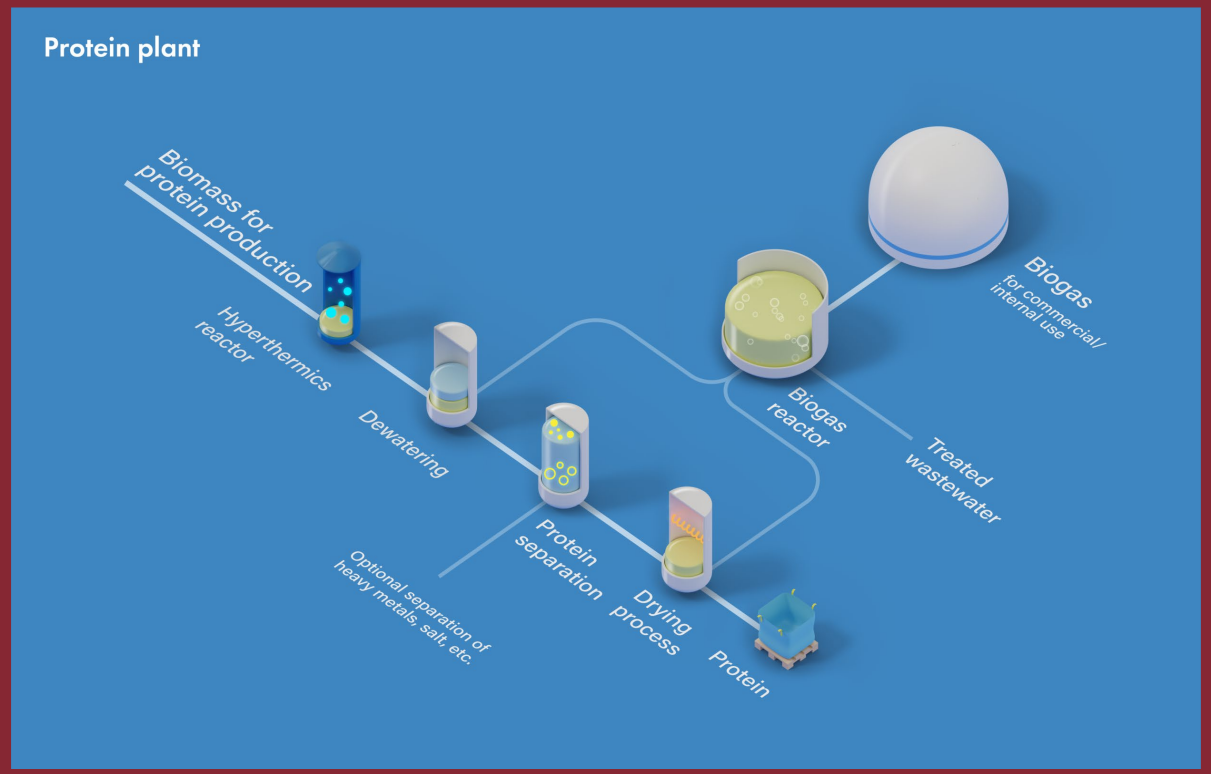
1680isk/kg

Microalgae production

Value chain follow through

17.85Euro

ICELAND OCEAN CLUSTER



Biogas & Biogas Substrate

Hyperthermics™

ICELAND OCEAN CLUSTER

Pyrolysis oil (bio-oil)

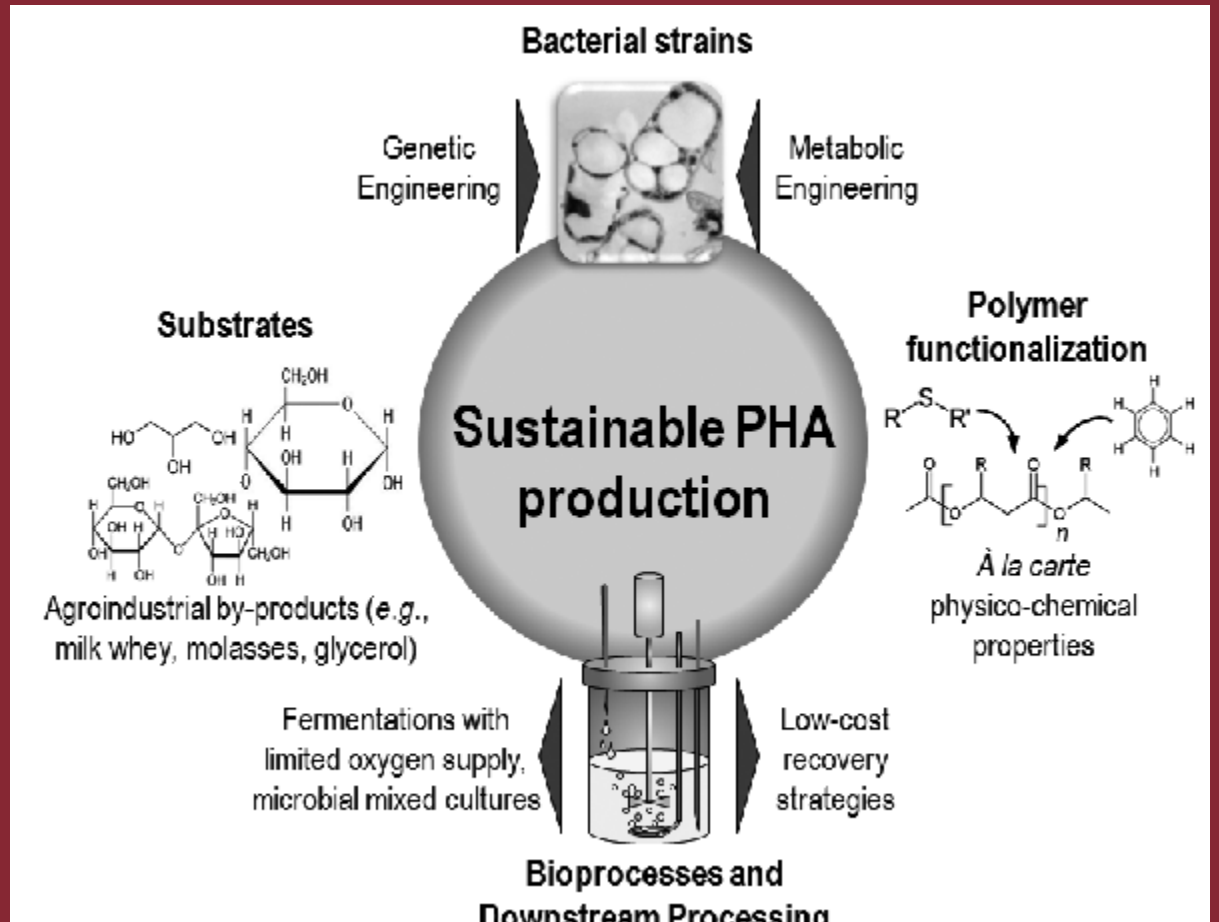
Biogreen®

ICELAND OCEAN CLUSTER

Industrial lubricant & biobased surfactant

ECO CLEAN

polyhydroxyalkanoate production



Biotechnological prospecting

Purpose of workshop

To gather the perspective of the Icelandic aquaculture industry on where we should focus research and development resources.

Strengths

- What resources do we have that can support value creation in sludge?
- What practices already exist for sludge management in Iceland today?
- What might be other sources of competitive advantage for sludge utilization and valorization in Iceland?

Weaknesses

- What is lacking in the aquaculture industry in Iceland, that as a result is impacting the utilization of sludge in Iceland?
- What internal factors might be limiting the success of sludge utilization and valorization in Iceland?

Opportunities

- What resources and practices could we easily integrate into sludge utilization in Iceland right now?
- What factors should be prioritized when further developing sludge utilization and valorization in Iceland, in order to maximize growth?

Threats

- What are the external blockers that sludge utilization may face?
- What are non-controllable external factors that may negatively impact sludge utilization and valorization?