



matís

5.9.2023

matís

Research & Innovation
with impact on society



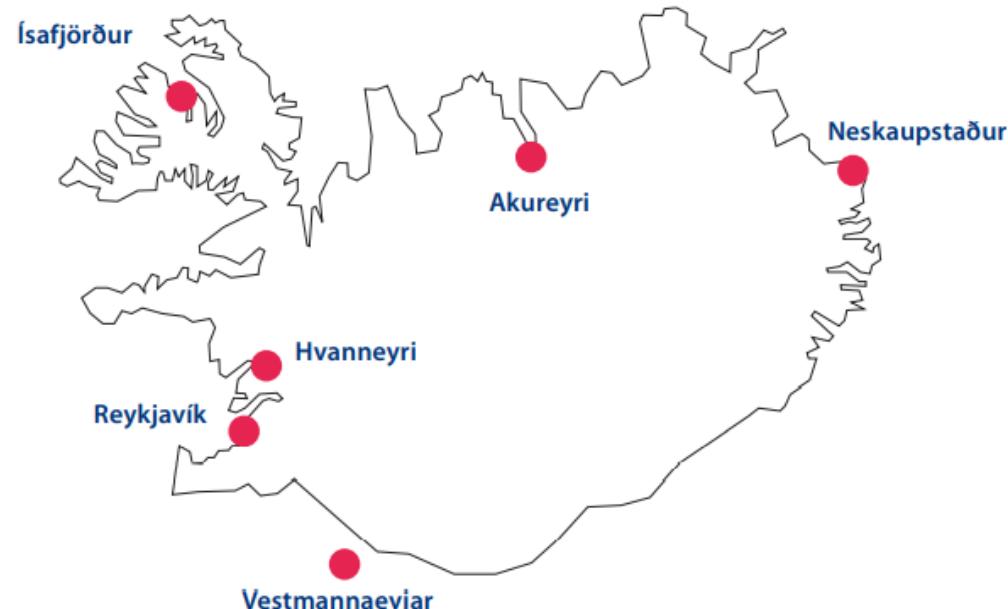
Matís ohf

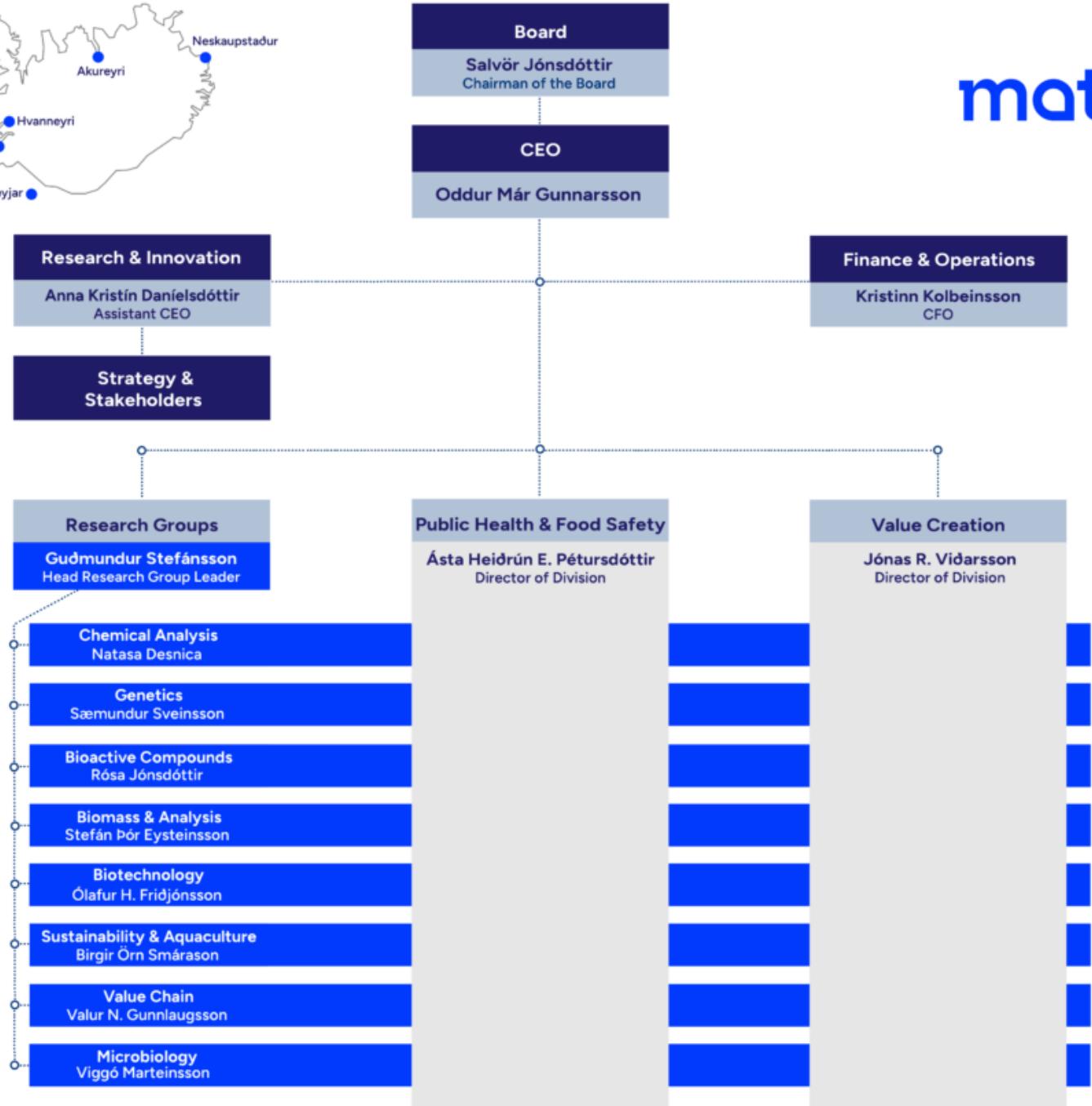
Matís is a governmentally owned Ltd. Non-profit food & biotech R&D company

Matís has obligations to safeguard **food safety**, contribute to improved **public health** and increased **value creation** in the Icelandic food & biotech sectors

97 employees in 6 locations

- 91 FTE
- 60 female / 37 male
- 19 PhD
- 52 MSc
- 13 BSc





Matís Operations 2022

Turnover 1.88 Billj. ISK (12.8 million EUR/14 million USD)

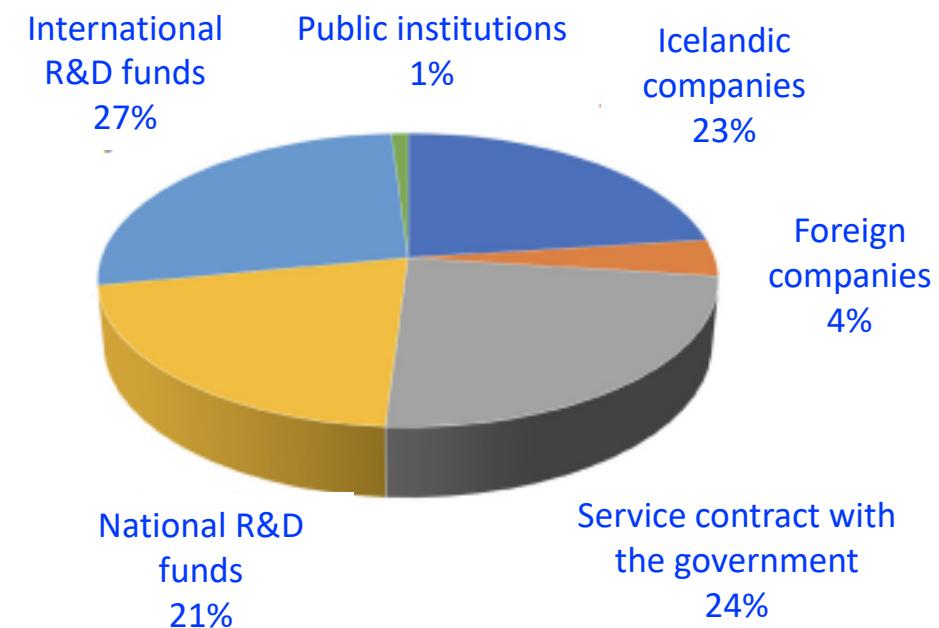
24% governmental funding – service contract:

- NRL operations
- Public safety and priority services
- Research and innovation

48% Competitive R&D funds

- National funds 25%
- International funds (mostly EU and Nordic) 22%

28% Service to private companies and institutions



Four key pillars of Matís



R&D projects
(funded by competition funds)



Service projects
(lab analysis)



NRL and other
analysis for the
authorities



Consultation,
education,
infrastructure

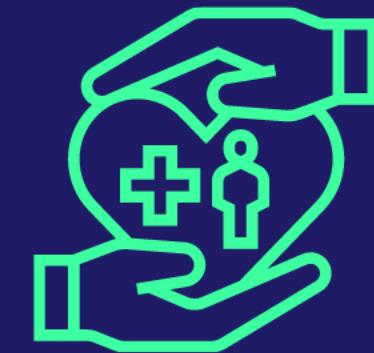
Research and Innovation



Value Creation



Food Security



Public Health

The research at Matís can be divided into 3 focus areas:

Impact of our research

- 11 - Pelagic fish
- 15 - Meat
- 9 - R&I agencies, startups and education
- 36 - Demersal fish
- 14 - Fruits, vegetables and grain
- 17 - Environmental research
- 4 - Development aid
- 22 - Public institutions & health authorities
- 3 - Diary
- 16 - Seaweed and algae
- 48 - Aquaculture
- 10 - Analytical services (NRL & other)
- 16 - Other

221 R&D projects in 2022



Infrastructure

- Chemical laboratories
 - <https://matis.is/en/maelingar-og-thjonusta/efnamaelingar/>
- Microbiological laboratory
 - <https://matis.is/en/maelingar-og-thjonusta/orverumaelingar/>
- Biotech laboratory
- Genetics laboratory
 - <https://matis.is/en/maelingar-og-thjonusta/erfdagreiningar/>
- Whet lab / test processing
- Aquaculture research station
 - <https://matis.is/mars>
- Sensory and consumer study facilities
 - <https://matis.is/en/maelingar-og-thjonusta/skynmat/>
- Test kitchens
 - <https://matis.is/en/solutions-and-advice/matvaelaframleidsla/matarsmidja/>
- Biorefinery
 - <https://matis.is/en/lifmassaver/>
- The Icelandic database on the chemical content of food (ÍSGEM)
 - <https://matis.is/en/naeringargildi-matvaela-isgem/>



Impact of our research



Development of unicellular protein from wood for use in feed for farmed salmon

Single cells, Protein, Sustainability, value chain



Nordic cereals:
Valorisation of cereal
side streams for
production of
aquaculture feed



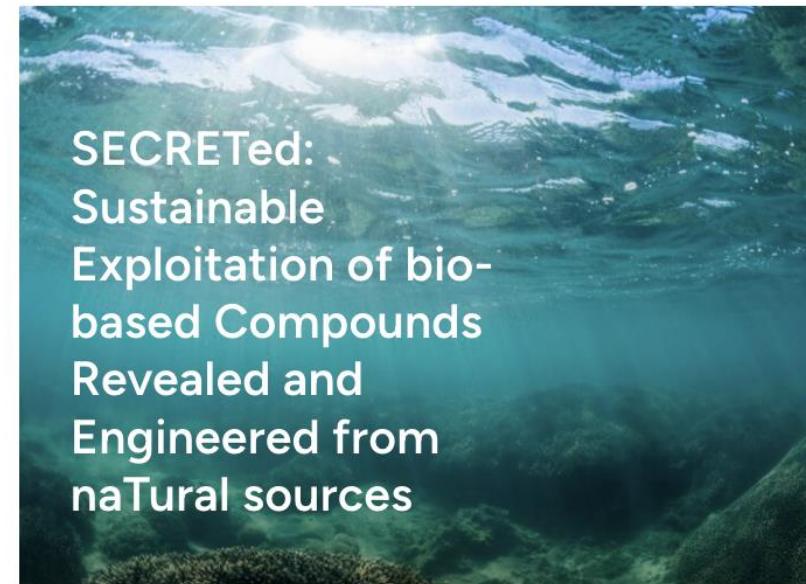
Accelwater:
Accelerating Water
Circularity in Food
and Beverage
Industrial Areas
around Europe

Impact of our research



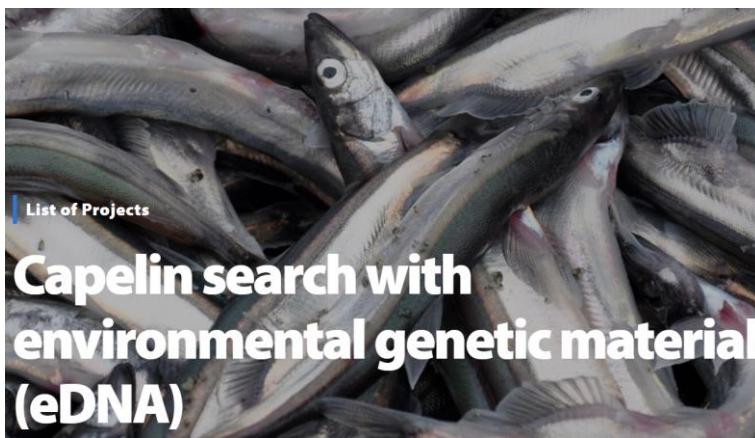
Installation of a geothermal grain dryer in Kenya

Geothermal energy, Grain, Value added



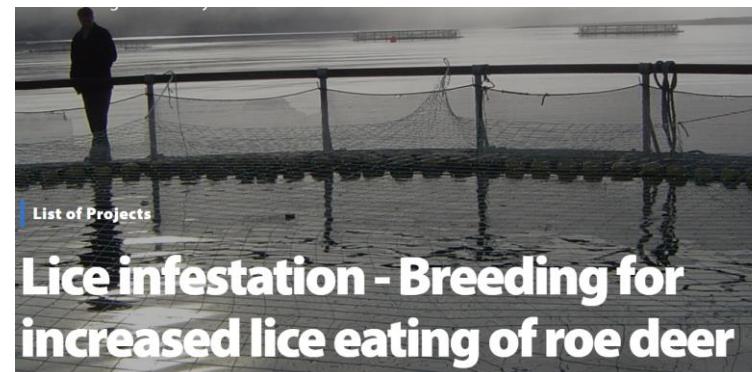
Impact of our research

Genetic analysis of cattle - the fight against food fraud



List of Projects

Quality and healthiness of Icelandic vegetables in comparison with imported vegetables

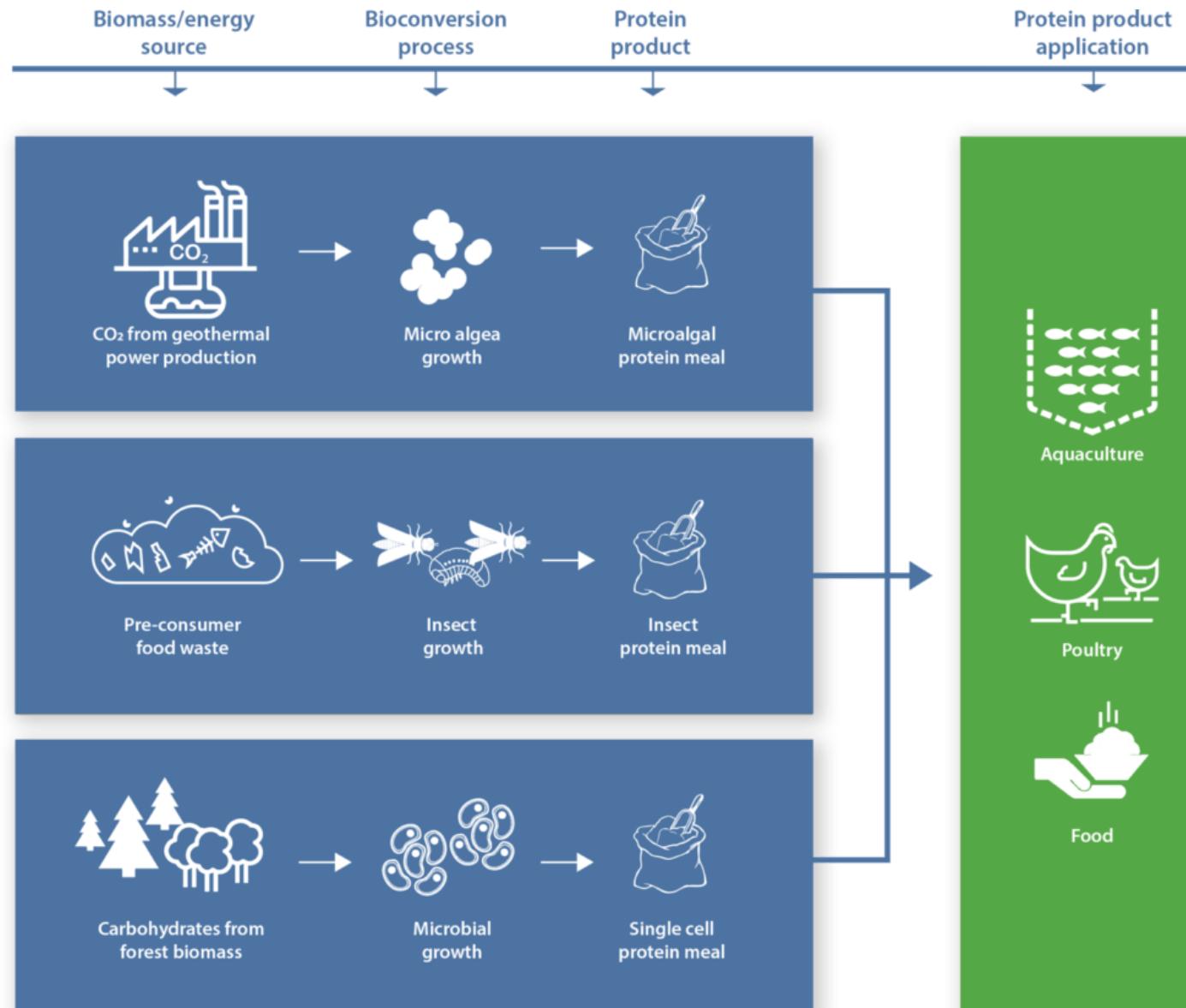


List of Projects

Development of Icelandic oat milk



NEXTGEN PROTEINS



Ongoing projects relevant for 100% fish

Gullhausinn

- *The Golden head. Effect of size and season of catch on physicochemical properties of cod heads*



Ongoing projects relevant for 100% fish

Verðmæti í vinnsluvatni frá bolfiskvinnslu

- *Utilizing valuable materials from runoff water from seafood processing*



Ongoing projects relevant for 100% fish

Lífvirk bragðefni unnin úr íslensku sjávarfangi

- *Bioactive flavoring products processed from seafood rest-raw materials and other marine sources*



EuFish_SustainableGrowth

- *Product development from under-utilized fish species*

- Silver scabbardfish,
- Bogue,
- Atlantic horse mackerel
- Atlantic argentine
- Blue whiting
- Redfish



Protein úr hliðarstraumum makrils

- *Protein hydrolases from mackerel rest-raw materials*



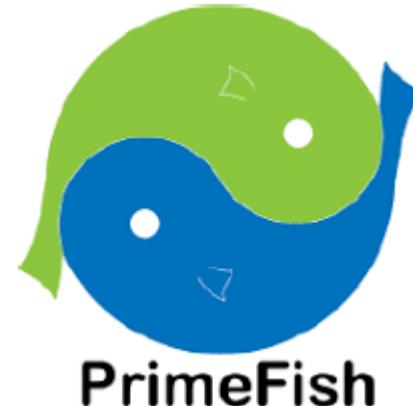
Hrognkelsakollagen - umhverfisvæn afurð

- *Collagen from lumpfish*



Fisheries management

MareFrame



ClimeFish



AquaVitae

Research collaboration with educational institutions

Matís plays an important role in linking educational institutions and scientific research with the business community.



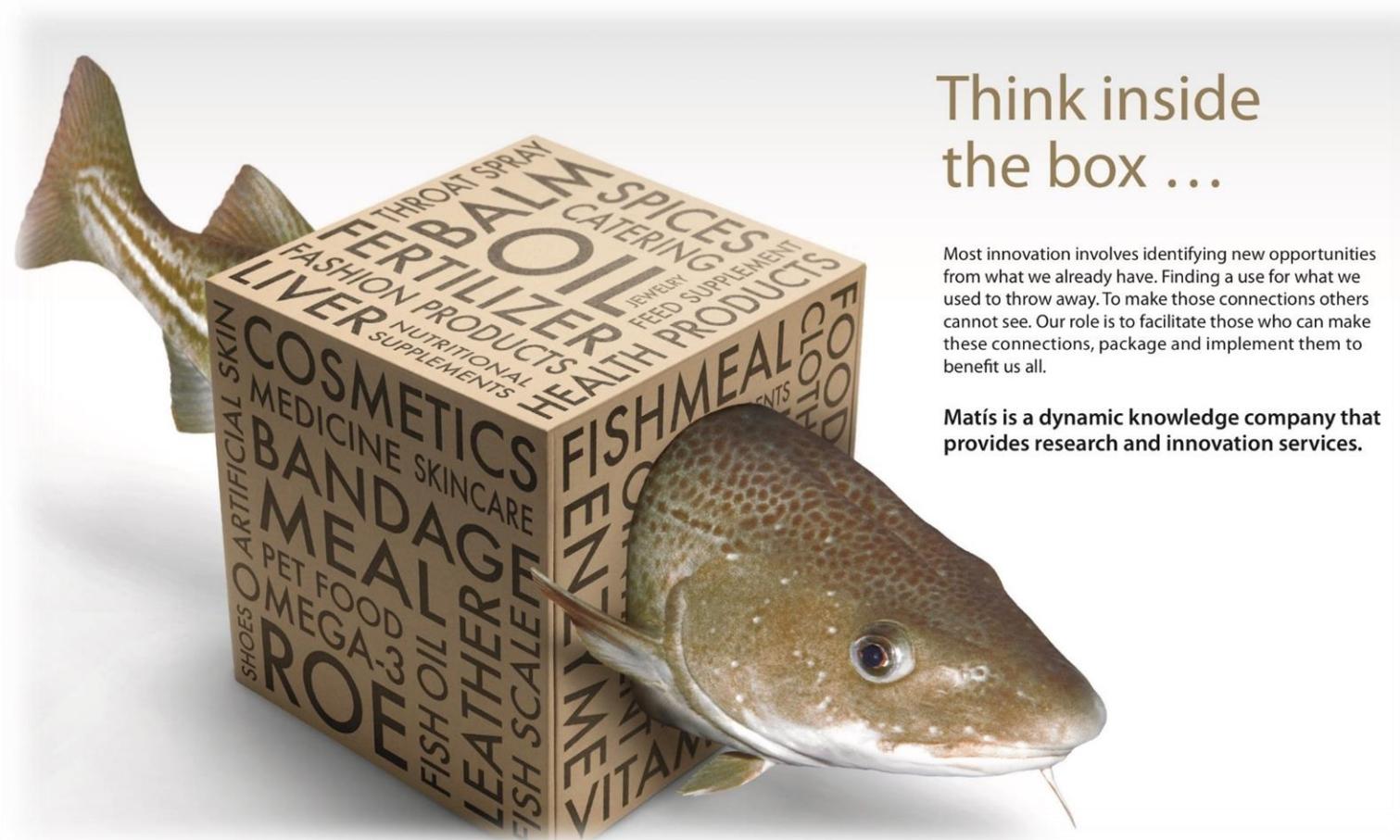


Collaboration



<https://www.youtube.com/watch?v=y2oqaepmCPA>

Takk fyrir – Thank you



Think inside
the box ...

Most innovation involves identifying new opportunities from what we already have. Finding a use for what we used to throw away. To make those connections others cannot see. Our role is to facilitate those who can make these connections, package and implement them to benefit us all.

Matís is a dynamic knowledge company that provides research and innovation services.

jonas@matis.is

 @JonasVidarsson