



# Aquaculture in Iceland

Industry status, key players and future direction

Lofoten seminar 2026

**STIM** 

09.06.2026



# Why Iceland matters in the global salmon context

## Biology and environment

- Cold, stable water temperature
- Low disease and parasite pressure
- Strong fish health performance
- Clean water availability on land and at sea

## Regulatory and geopolitical positioning

- European production base outside core EU farming regions
- High regulatory standards and transparency
- Increasing constraints on growth in traditional salmon regions
- Stable political and legal framework
- Strong marketing position between Europe and the US

## Structural flexibility

- Combination of sea-based and land-based production
- Unique conditions for water sourcing in land-based
- Access to renewable energy and water
- Platform for alternative growth pathways

***Iceland will not be a volume leader – but it is increasingly relevant as a differentiated production platform***



# Industry structure: Sea-based vs Land-based salmon farming in Iceland

## Open net-pen farming in fjords

- Dominant share of current production
  - Concentrated ownership
  - Limited growth capacity due to regulation
  - **Backbone of today's salmon exports**
- 
- Regions: Westfjords and East fjords of Iceland

## Fully land-based production

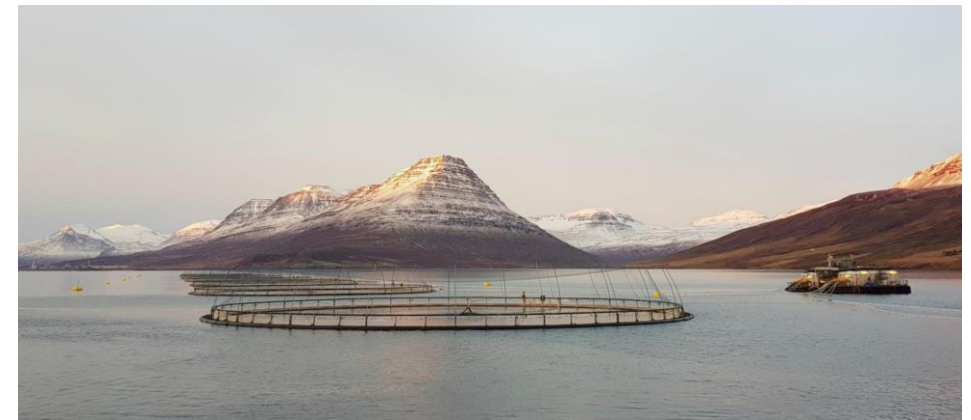
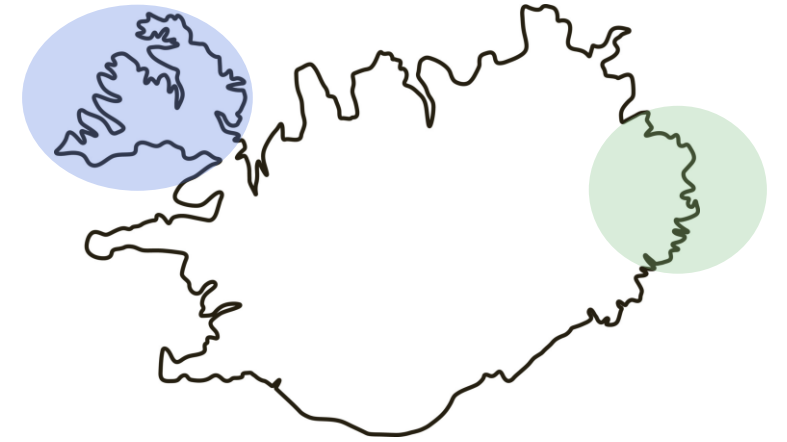
- Relatively small share of current volume
  - Rapid project development
  - Hybrid flow-through dominant (The Icelandic version)
  - **Main source of future capacity growth**
- 
- Regions: Reykjanes peninsula, Hvalfjordur and north-east corner of Iceland

*Sea-based farming drives volume today – Land-based farming defines optionality and future growth*



# Key sea-based salmon farming companies

Name	Largest owner	Location
Arctic Fish	Mowi	Westfjords
Arnarlax hf	SalMar	Westfjords
Háafell ehf & Háabrún ehf	ÍSEF (HG / Icelandic investors)	Westfjords
ÍS47 ehf	Jóhann Magnús Ólafsson	Westfjords
Kaldvík hf	Austur Holding / Måsoval family	East Fjords



# Sea-based farming in Iceland: Role and constraints

## Production role:

- Established operations
- Cost-efficient production model
- Core regions: West- and east fjords

## Limitations

- Limited sites and carrying capacity
- Increasing regulatory scrutiny
- Environmental and social pressure
- Constrained long-term growth outlook

*Sea-based farming delivers volume and cash flow today – but offers limited optionality for future growth*



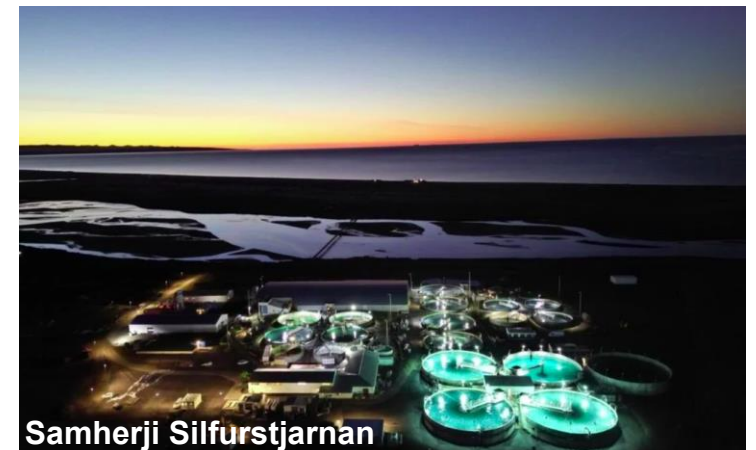
# Land-based aquaculture: where optionality is forming

## Established operators

- Long track record in land-based farming
- Proven biology and operations
- Primarily Arctic char, but salmon production growing fast.

## New salmon projects

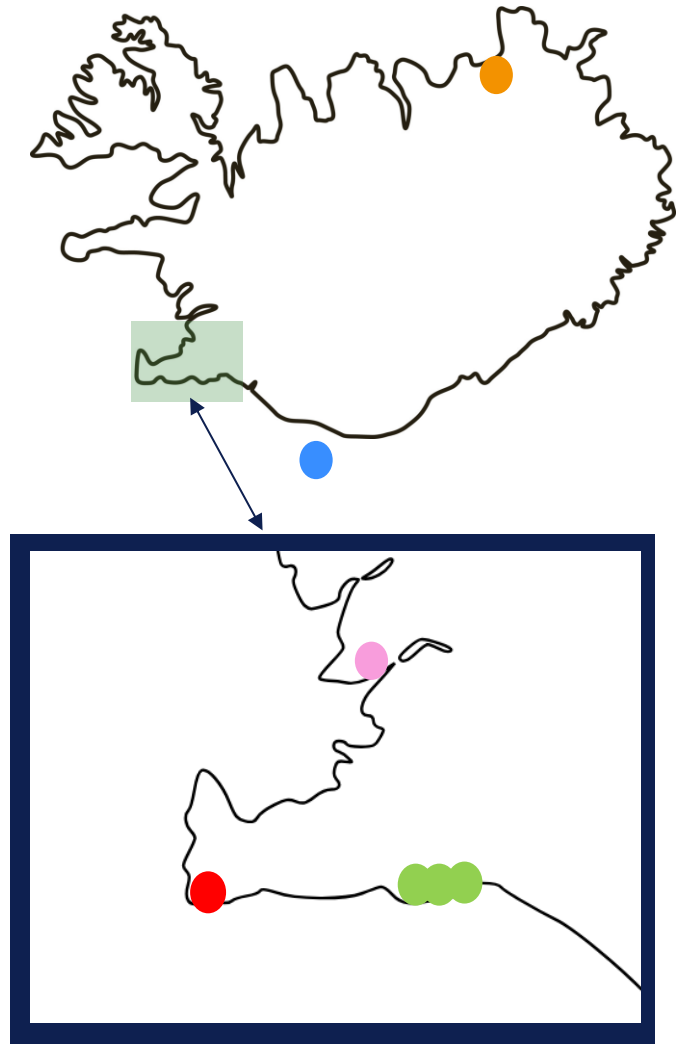
- Significant capital deployment
- Different system design than typical global RAS
- Focused on scalability under Icelandic conditions



*Land-based farming is no longer experimental in Iceland – it is becoming institutionally relevant*

# Key Land-based salmon farming companies

Name	Largest owner	Location	Status
Aurora fish farm	Icelandic investors	Hvalfjordur	● Early-stage / permitting
First Water	Stoðir hf and Icelandic investors	Thorlakshofn	● Operational / scaling up
GeoSalmo	Bull Hill capital	Thorlakshofn	● Operational / ● Under construction
Laxey	Oskarsson family	Vestmannaeyjar	● Operational / scaling up
Silfurstjarnan	Samherji	Kopasker	● Operational / scaling up
Eldisgarðurinn	Samherji	Reykjanes	● Under construction
Thor Salmon	IS Haf Investments	Thorlakshofn	● Operational / scaling up



*The Icelandic land-based salmon farming sector is not built around one blueprint, but around different risk profiles, system designs and growth paths*



# Species and production mix - what actually drives the industry?



## Arctic Char

- Smaller share of total volume
- Primarily land-based production
- Strong biological performance
- Premium, niche positioning

**Other species** marginal

## Atlantic salmon

- Dominates total production volume
- Drives exports and industry economics
- Defines Iceland's role in the global market

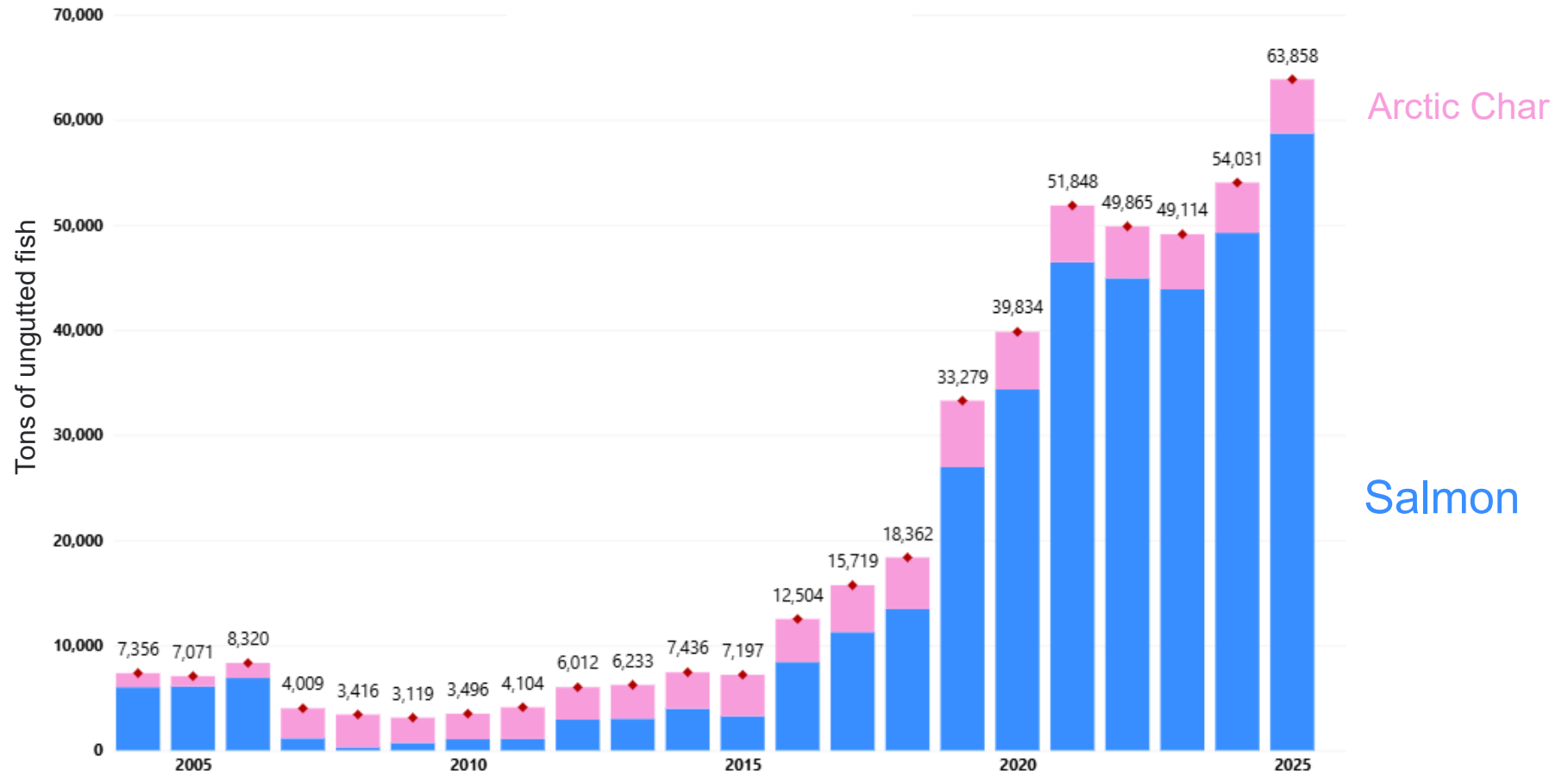


***Salmon drives scale and system dynamics — char adds differentiation.***



# Production growth and scale

Annual aquaculture production by species



Source: [Mælaborð fiskeldis](#) | Matvælastofnun



# Atlantic salmon: backbone of the industry



# Land-based farming: its role going forward

## Strategic role

- Complement to sea-based production
- Adds flexibility and optionality
- Supports growth under tighter regulation

## Trade-offs

- Higher capital intensity
- More operational complexity
- Longer ramp-up time

## Why it matters now

- Increased regulatory pressure
- Higher focus on risk and control
- Need for alternative growth paths
- Iceland will likely outperform other countries in land-based

*Land-based farming does not replace sea-based production – it expands the strategic toolbox.*



# Land-based aquaculture in Iceland: a different approach

## **Global norm**

In most regions, land-based salmon farming is built around highly complex full RAS systems, designed to maximize water reuse where water is scarce

## **Icelandic approach**

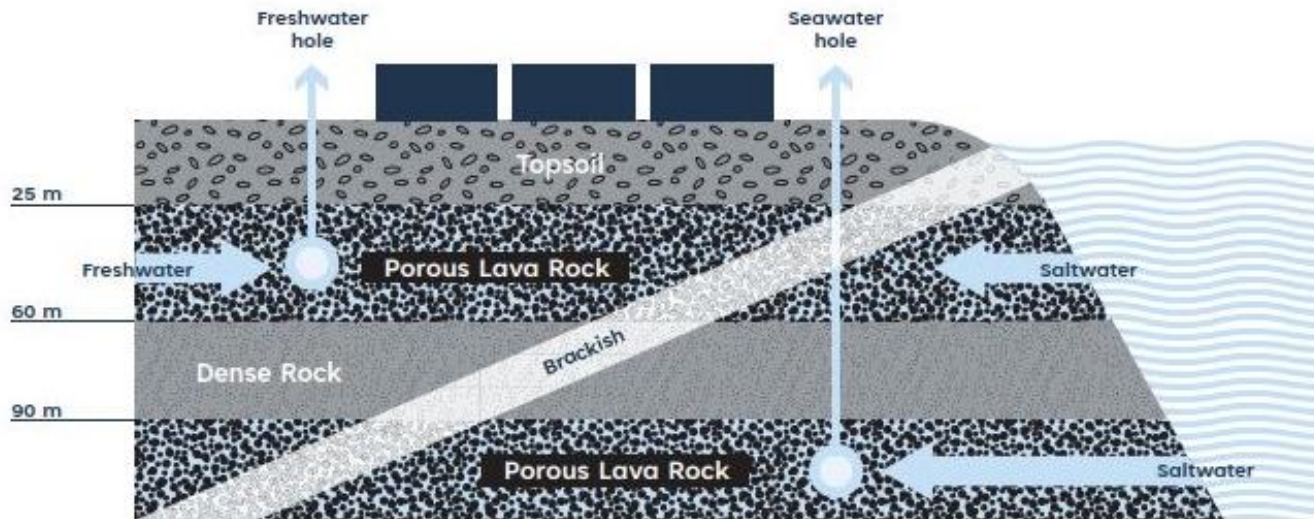
In Iceland land-based farming has developed around flow-through systems, enabled by access to large volumes of high-quality groundwater and seawater at optimal temperatures, collected through boreholes. That combined with partial recirculation in newer systems is the Icelandic approach



# Key implications of the Icelandic land-based model

## System design

- Generally lower system complexity
- Fewer control layers than full RAS facilities
- Different balance between control and simplicity



(27) GeoSalmo: Posts | LinkedIn

## Biology and operations

- Historically strong biological performance
- Lower system stress under Icelandic conditions
- Predictability prioritized over optimization

## Resource trade offs

- Higher water use
- Lower treatment intensity
- Model only works where groundwater (both fresh & sea) and energy is abundant

*This model works because Iceland's natural inputs are special – not because the trade-offs disappear*



# Salmon stocking in Icelandic rivers

## Long-Standing practice

- Release of hatchery-reared juveniles for decades
- Closely linked to recreational salmon fishing
- Part of a broader ecosystem conversation

## Industry contribution

- Applying aquaculture expertise beyond farming
- Improving smolt quality and timing (e.g, smoltification)
- Supporting more robust and viable releases

## Current context

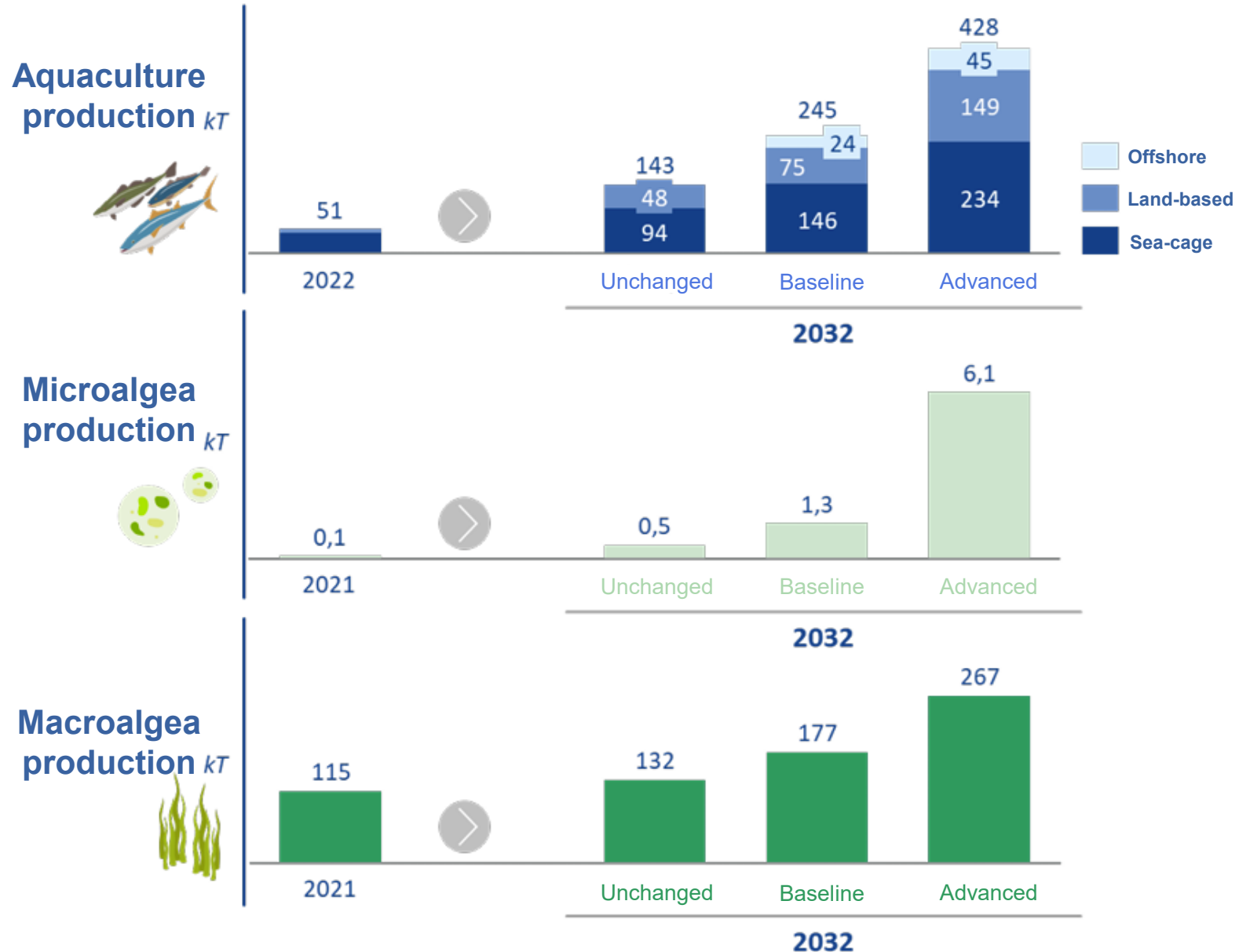
- Wild Atlantic salmon stocks are under increasing pressure
- Growing focus on genetics, stock interaction and sustainability
- Increased expectation on industry responsibility



***The knowledge developed in aquaculture can and should be used beyond farming.***

# Future growth scenarios (BCG 2023)

## Production capacity by scenarios, charts and timeline



# Key takeaways from the Ministry's 2023 report

## Long-term growth potential exists

- Iceland has strong biological and natural conditions
- Aquaculture can grow significantly
- Scale is possible, but not automatic

## Land-based farming plays a larger role over time

- Especially in higher-growth scenarios
- Partly due to constraints on sea-based expansion
- Offers additional growth paths under tighter regulation

## Outcomes depend on choices, not ambition alone

- Regulation, execution quality, and capital discipline are decisive
- Higher growth scenarios also carry higher complexity and risk
- Biology enables growth – governance and execution determine outcomes

*Iceland's aquaculture future is shaped by decisions*



# Executive status check

- Aquaculture in Iceland is still a relatively young industry, but has scaled rapidly
- Production is concentrated among a few large players and closely linked to global salmon groups
- Sea-based farming drives today's volume, while land-based defines future flexibility
- The key question is how growth, regulation, and public trust are balanced going forward

***The next phase is not about whether to grow, but how to grow responsibly***



Bjarki Már Jóhannsson  
Key account manager – Iceland  
[Bjarki.johannsson@stim.is](mailto:Bjarki.johannsson@stim.is)

