

Productivity & Growth in Salmon Farming

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KONTALI



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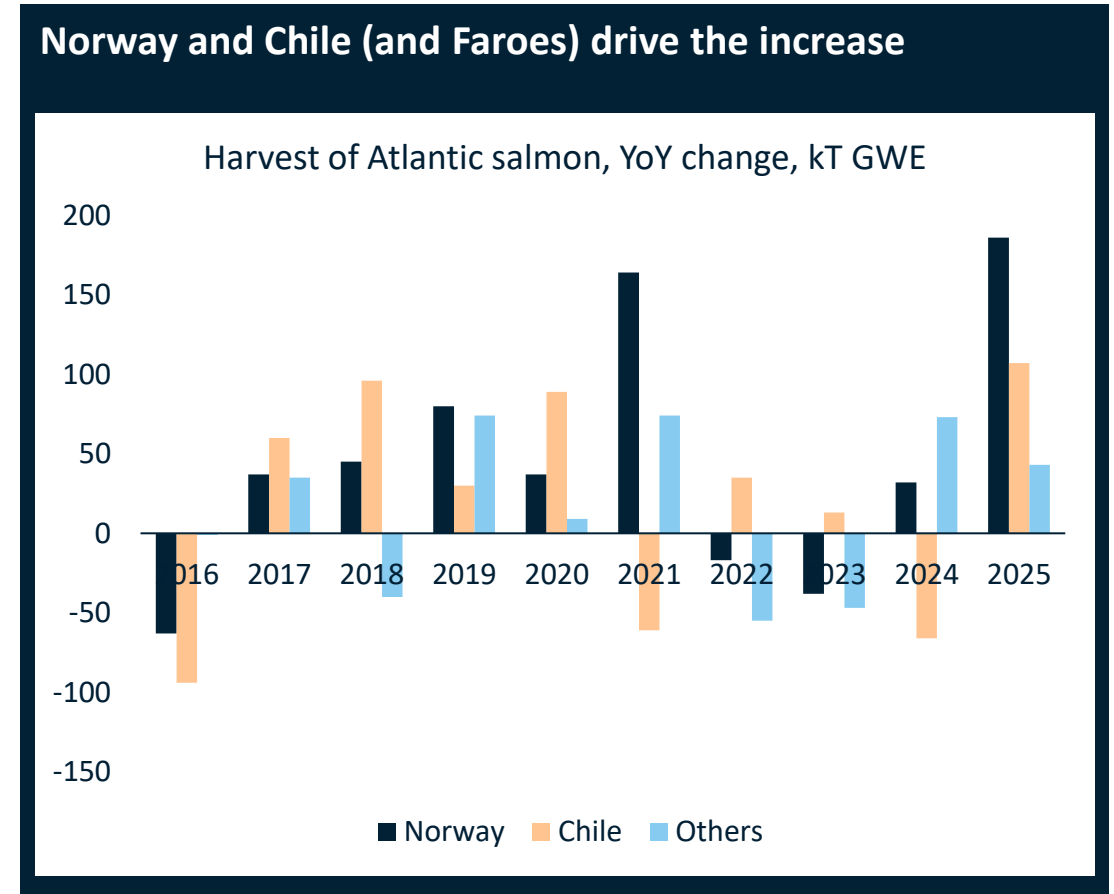
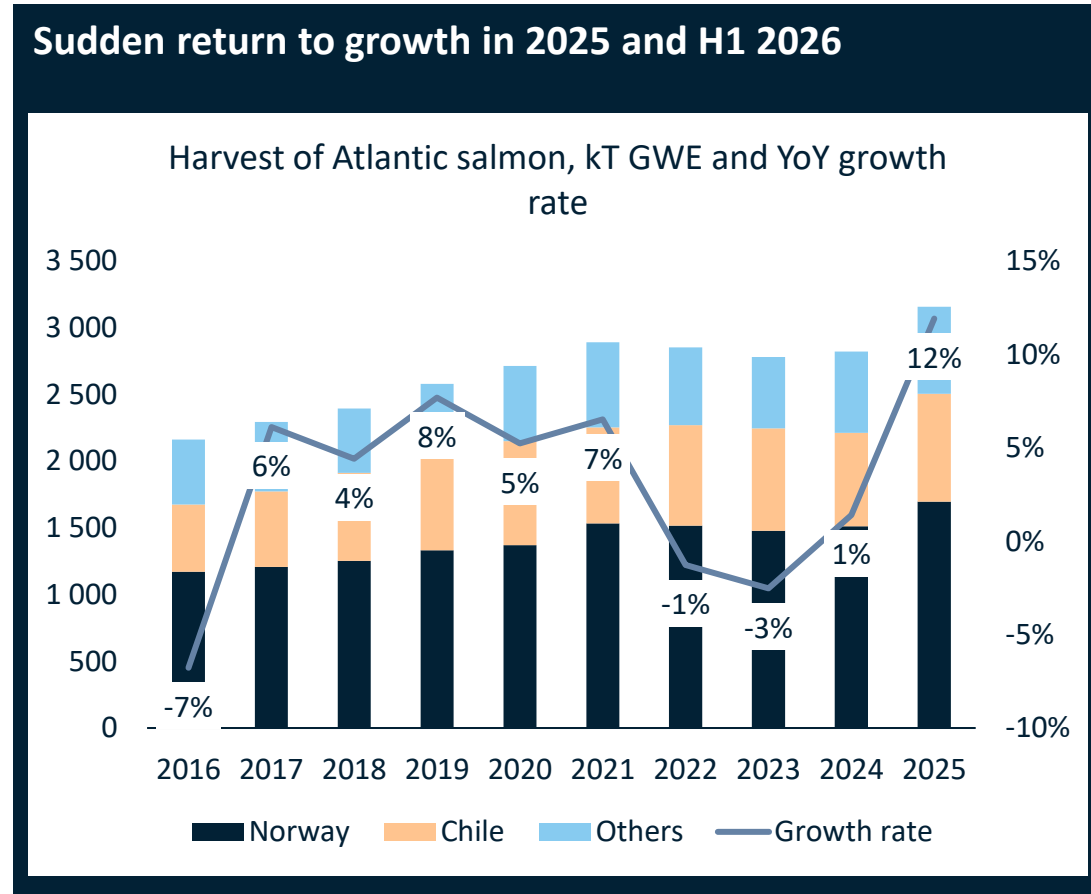


Renewed productivity growth: Temporary deviation from trend, or the new normal?

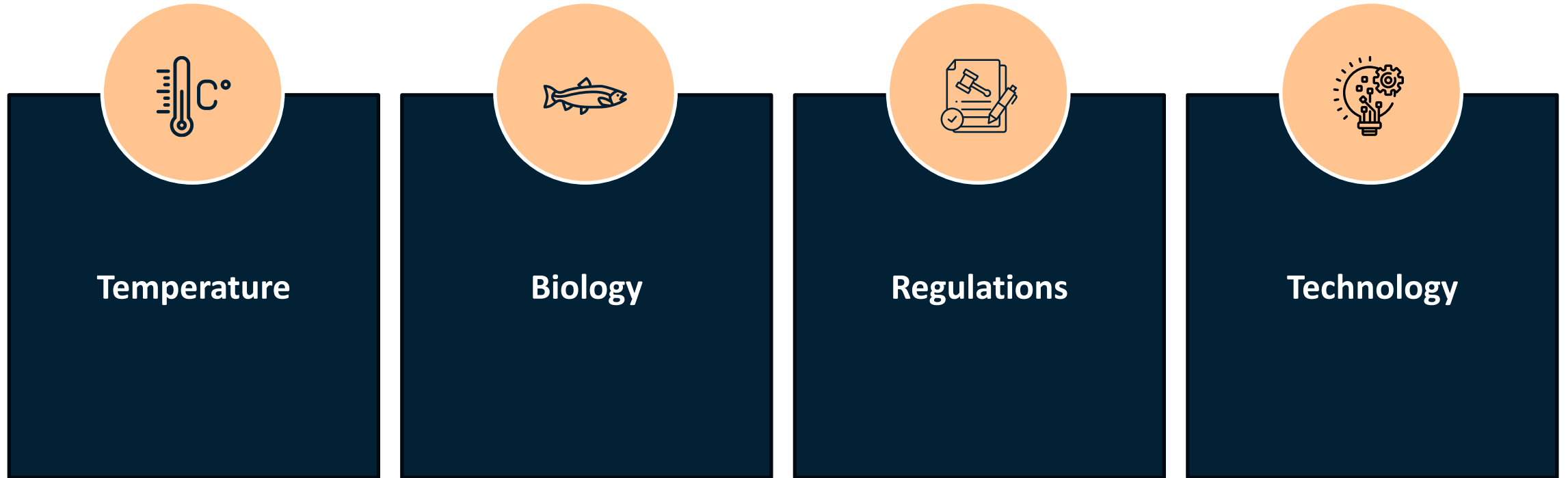
- Capacity-led growth may be a thing of the past in salmon farming
- Productivity, biological constraints and regulations now define the limits
- Productivity trend: Weak and volatile growth before recovery in 2025 and 2026 to date, but what's next?

Kontali productivity benchmark models cover 96% of global production

Productivity comeback driving growth in 2025 and 2026 to date



But what are the drivers of the recent growth?



And to what extent does this represent a trend shift vs a deviation from trend?

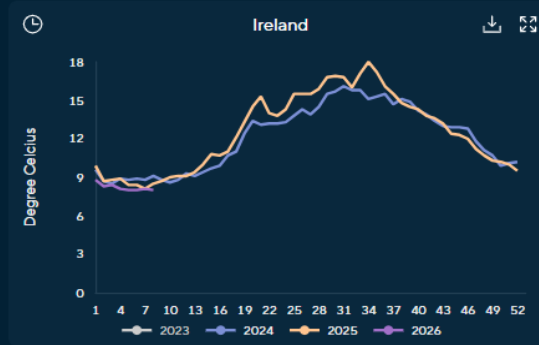
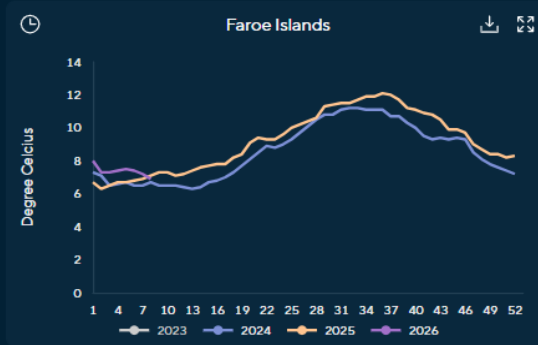
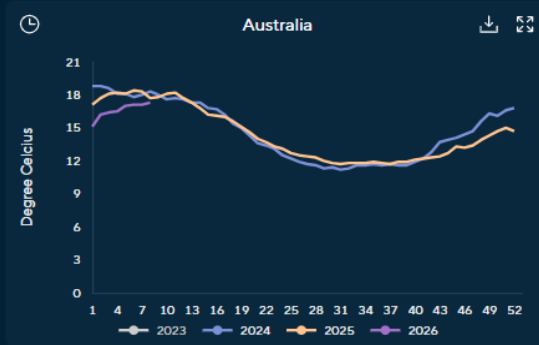
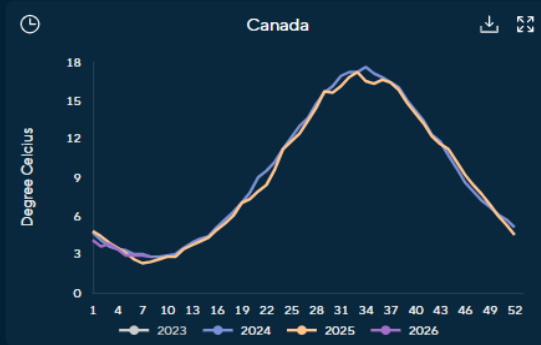
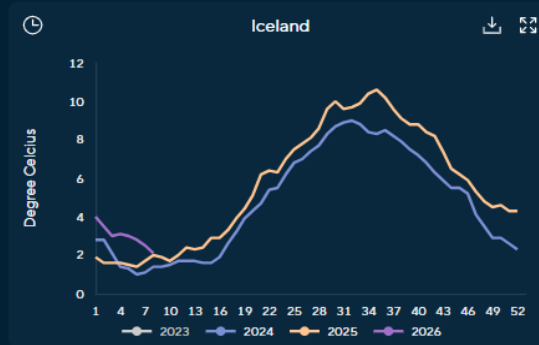
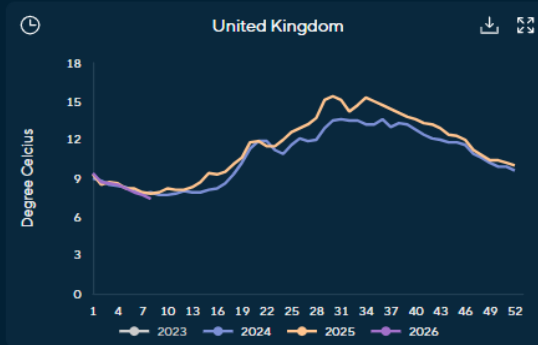
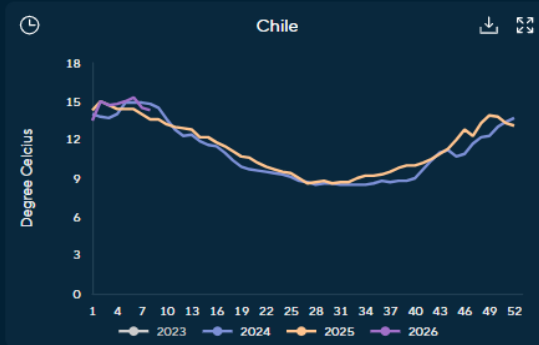
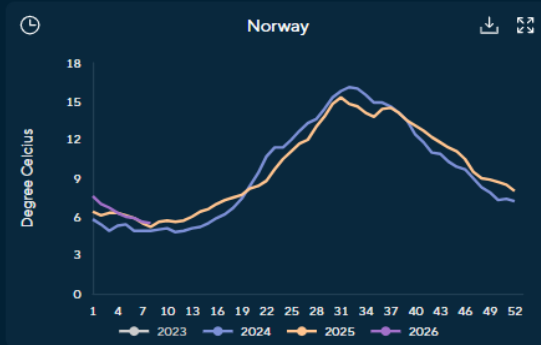
Global sea temperatures

Sea temperature is a key factor in salmon farming, influencing growth, feed efficiency, and both disease and environmental risks. Warmer water increases metabolism, requiring more feed, while colder water slows growth. Salmon thrive best between 8°C and 14°C, while extreme temperatures can cause stress and weaken immunity. Sea lice reproduce faster in warm water, while colder temperatures slow their proliferation. Some diseases, however, thrive in colder conditions. Warmer conditions can reduce oxygen availability and, together with high nutrient levels, trigger harmful algae blooms.

[Methodology](#)

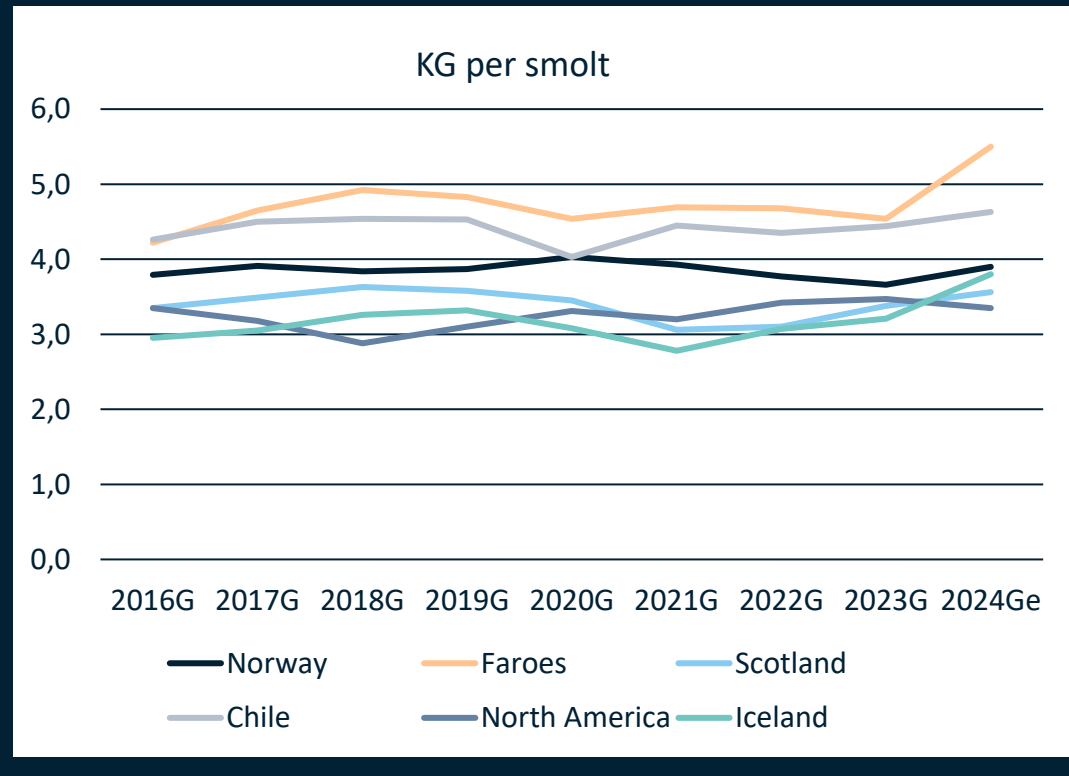
[Average sea temperatures by country](#)

Average sea temperatures by country

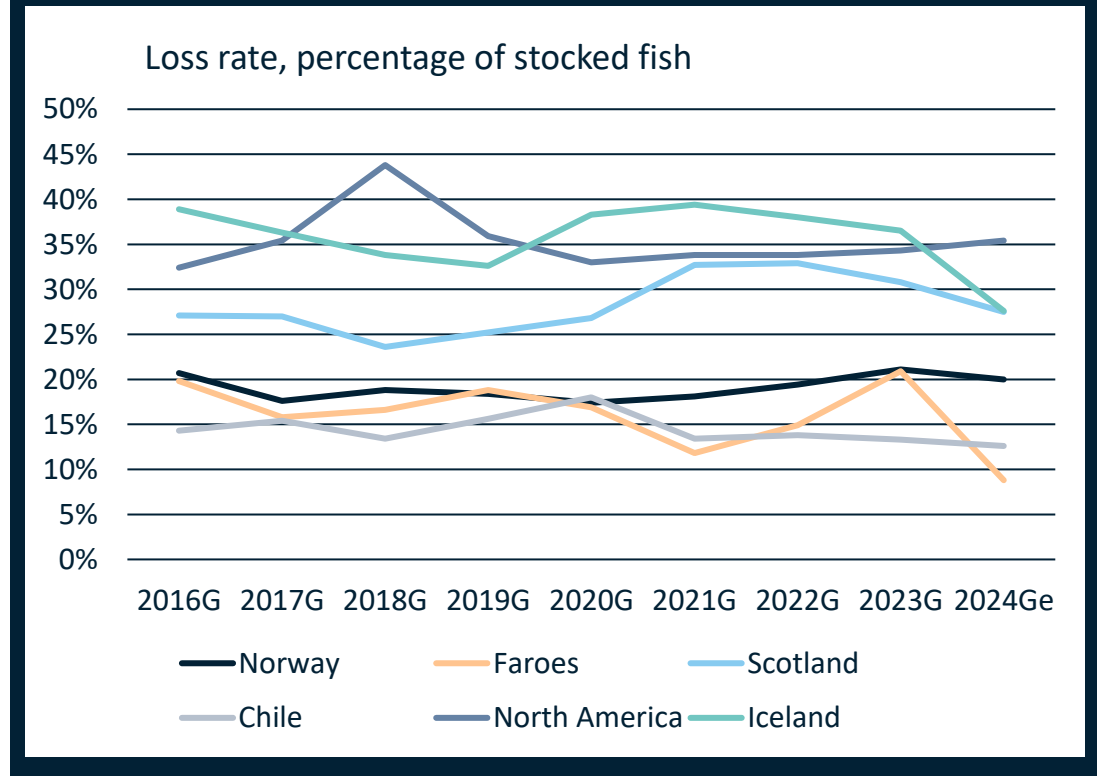


Biological performance is the key driver, closely linked to environmental conditions

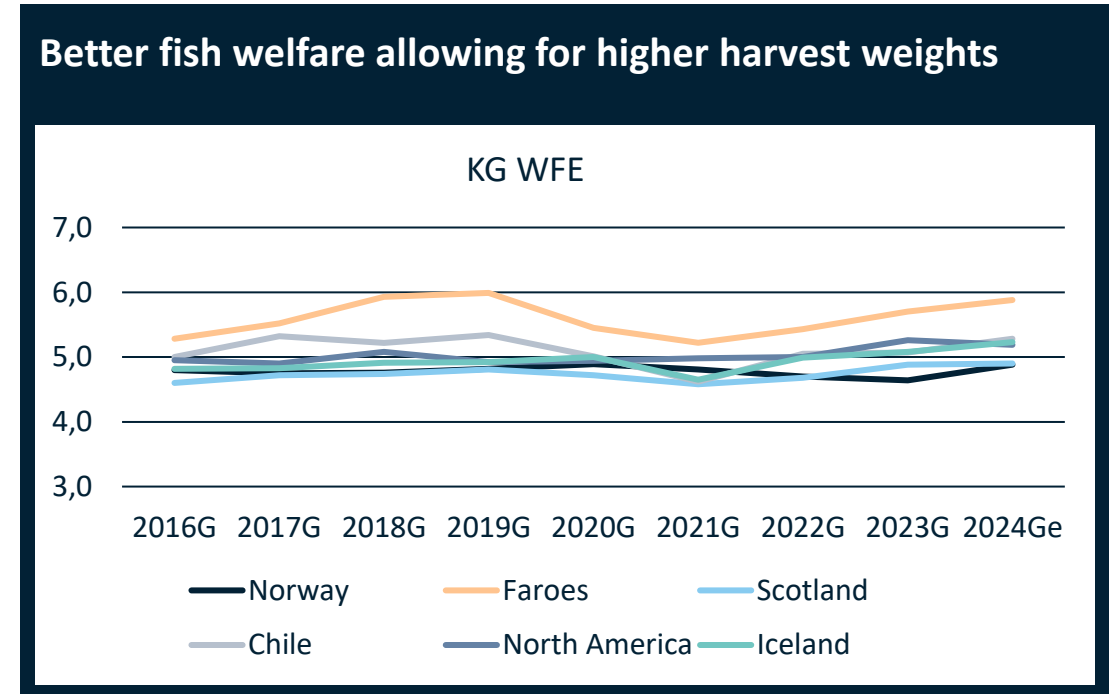
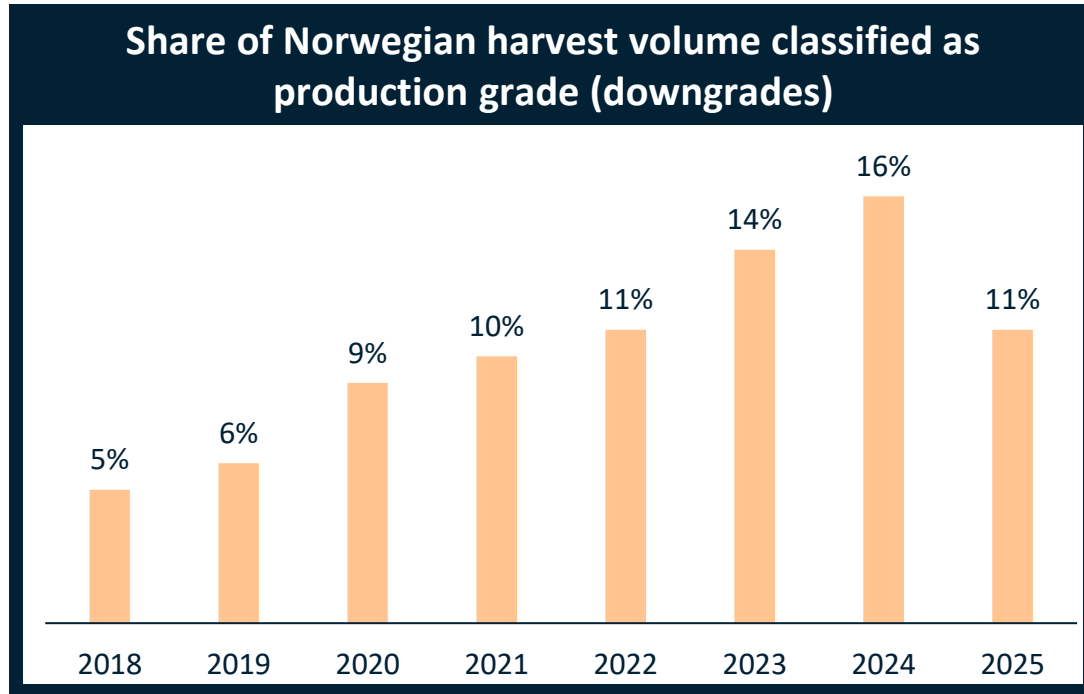
Smolt yield 24G (2025 harvest): improvement across most farming regions



Supported by lower losses in most regions



Quality and fish welfare allowed for higher harvest weights



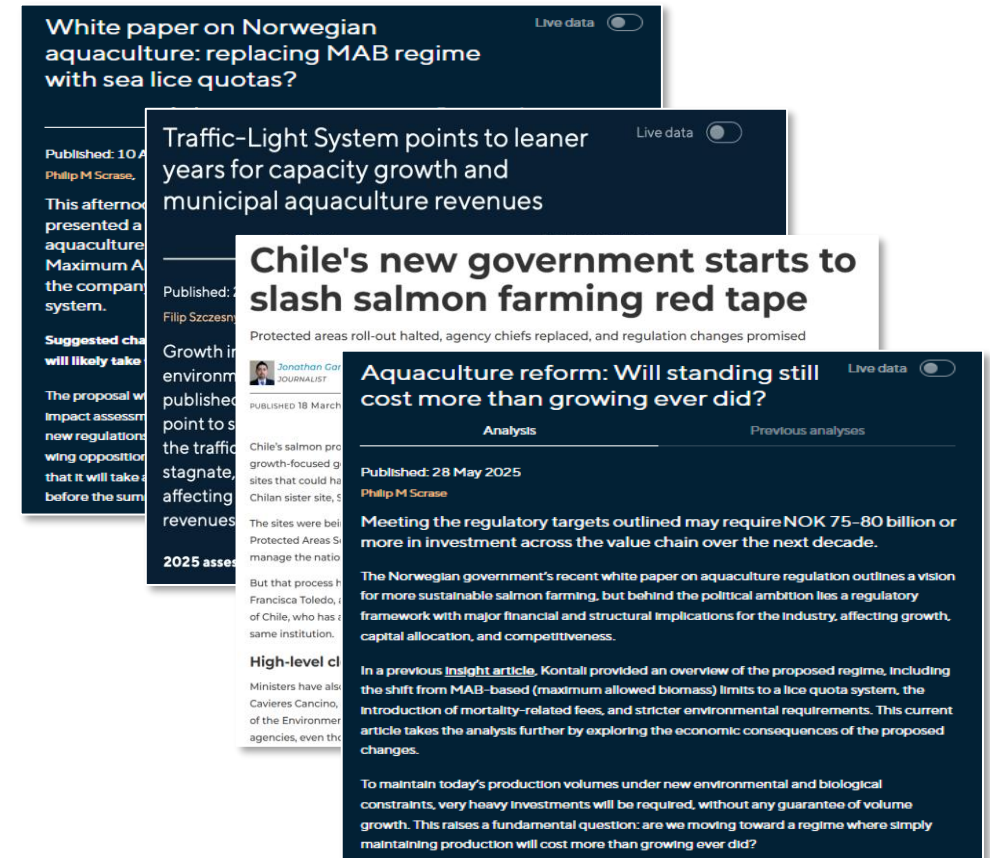
- Effective H1 supply from Norway was down three years in a row prior to 2025 due to downgrades
- Supply growth and less downgrades effectively added 250 kT of Norwegian salmon YoY in 2025

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Regulations – constraint or driver of growth and productivity?

- Access to new sites is a key bottleneck
- Licensing systems and political frameworks
- Positive signals in Chile, but realization remains to be seen
- Norway: what happens with the traffic light system? Potential levy on losses?

Growth potential differs significantly by region

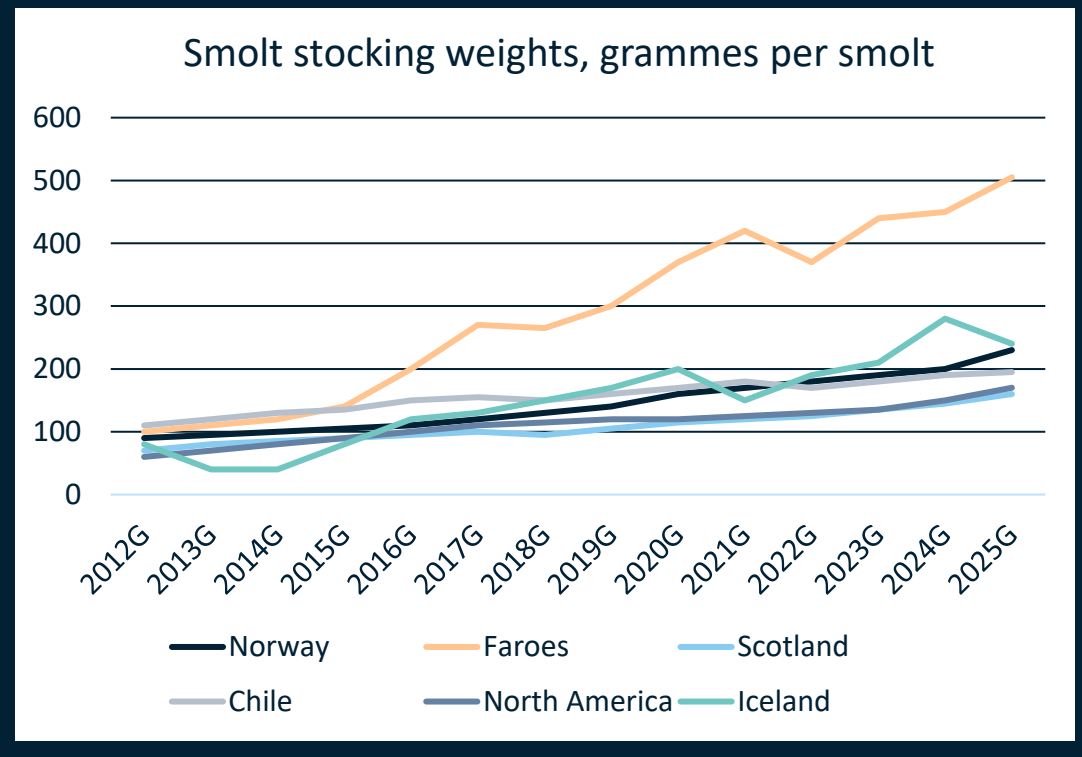


Technology as a productivity and growth driver?

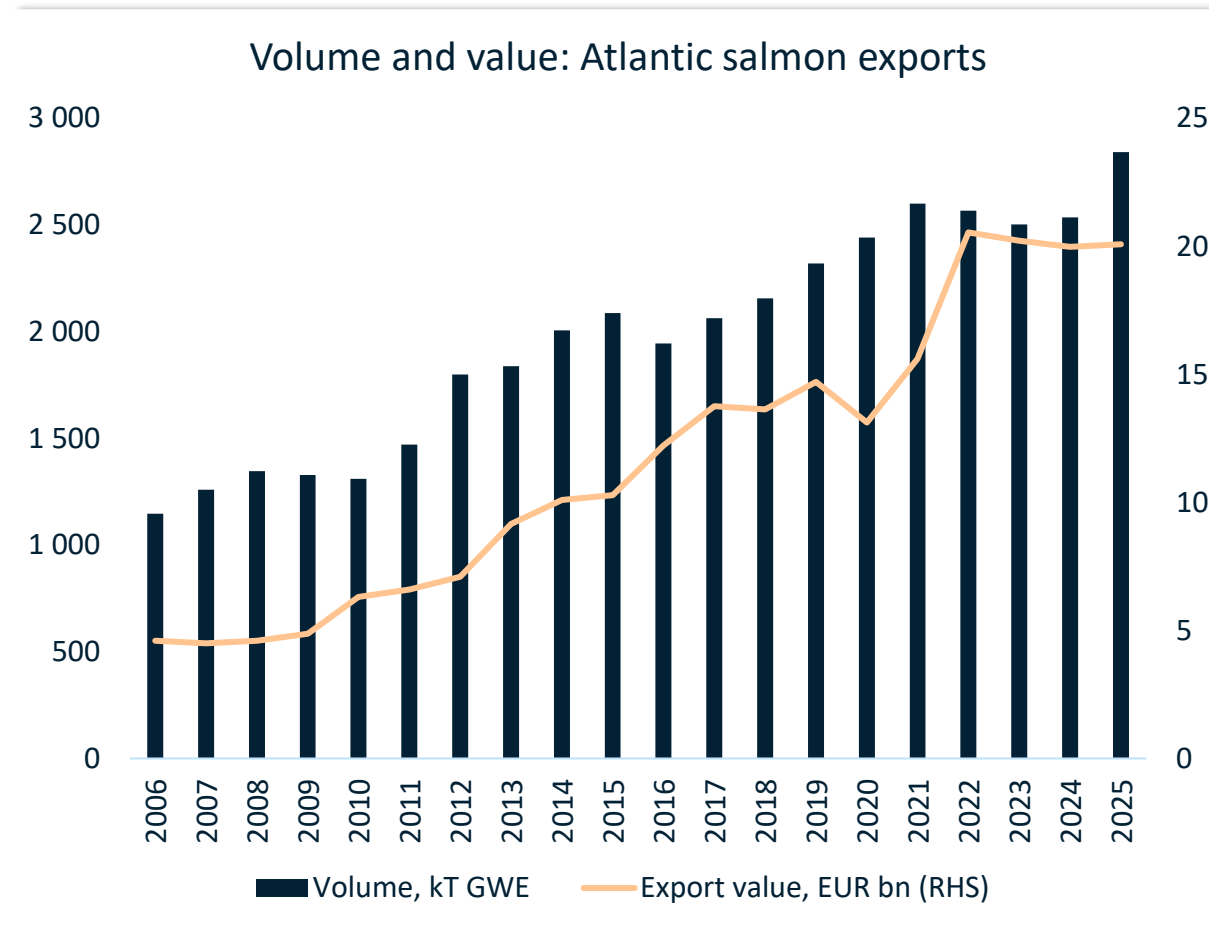
- Post-smolt investments – varying degrees of maturity and suitability across regions and regulatory regimes
- Submerged systems having some effects in environmentally challenging areas

Investing to grow – or to stay afloat and manage biology?

Smolt investments support license utilization and growth



But what about demand growth?



- Underlying demand growth?
- 2023 and 2024: declining export value measured in EUR on stagnant volumes
- 2025 and 2026 to date: supply growth and weaker prices across markets
- Investments depend on value and demand growth to be feasible – the easiest and cheapest volumes are already being produced

Looking ahead: growth returns to structurally low levels

Productivity

- Temperature: New normal drives higher risk, while creating regional opportunities
- Quality drivers: Temperature, vaccines, sea lice and handling

Regulations and governance

- Compliance pressure: Risk of “forced” investments to meet requirements
- Access to locations
- Chile: New opportunities?

Technology as a growth driver?

- Emerging solutions: Post-smolt, submerged and closed systems
- Capital constraints: Land-based still facing real funding challenges. Offshore not a factor anytime soon
- Investment backdrop: Higher value chain cost and increased uncertainty

We expect a return to normal, with low single-digit growth rates



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