

SUSTAINABLE AQUACULTURE

Norway is the leading producer of cultured Atlantic salmon. University of Bergen and partners are working towards making salmon aquaculture more sustainable

I. Rønnestad*, T.O. Nilsen, J.V. Helvik, S. Handeland, S. Stefansson, L.O. Ebbesson

University of Bergen
*ivar.ronnestad@uib.no

THE CHALLENGE

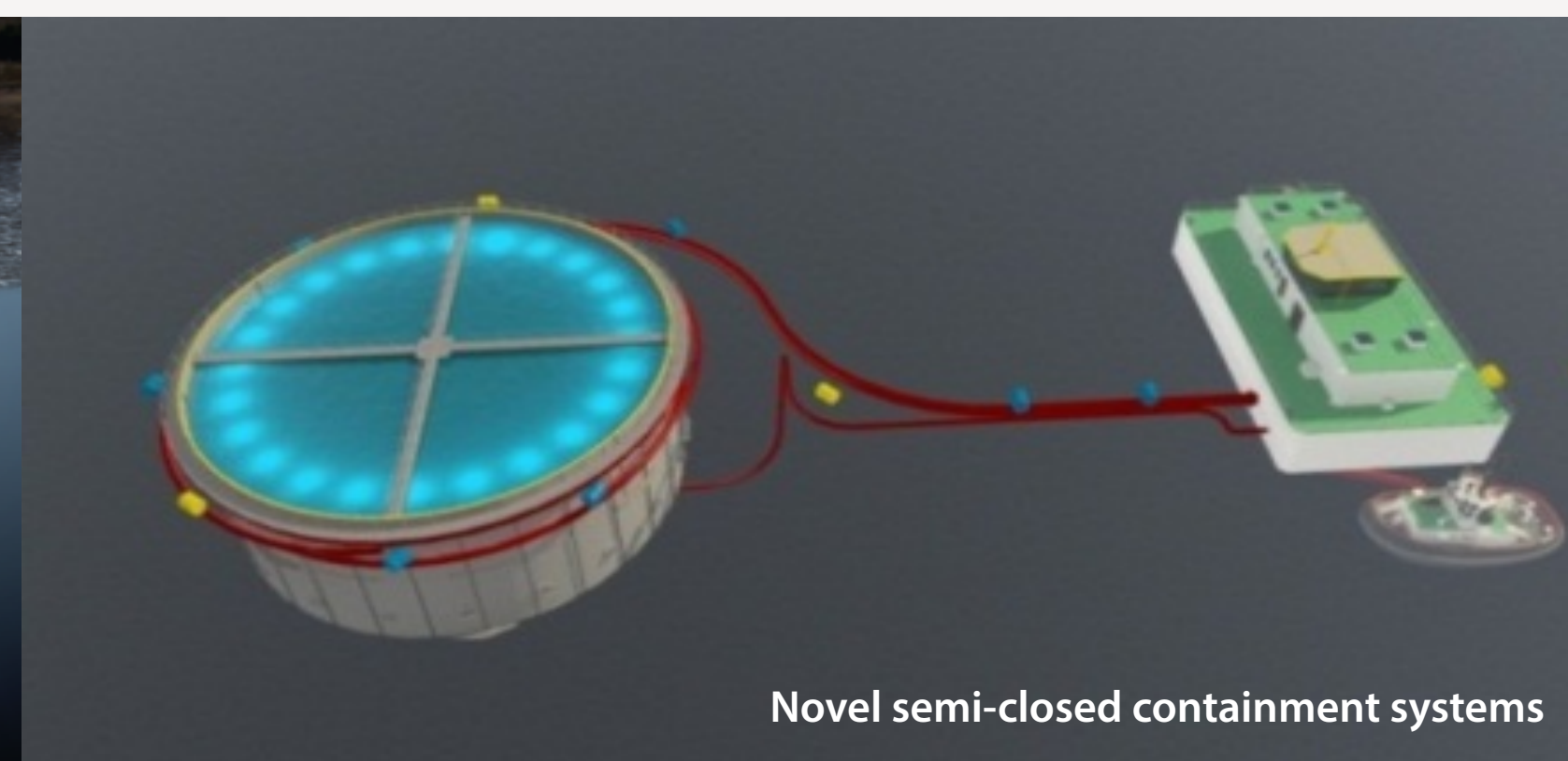
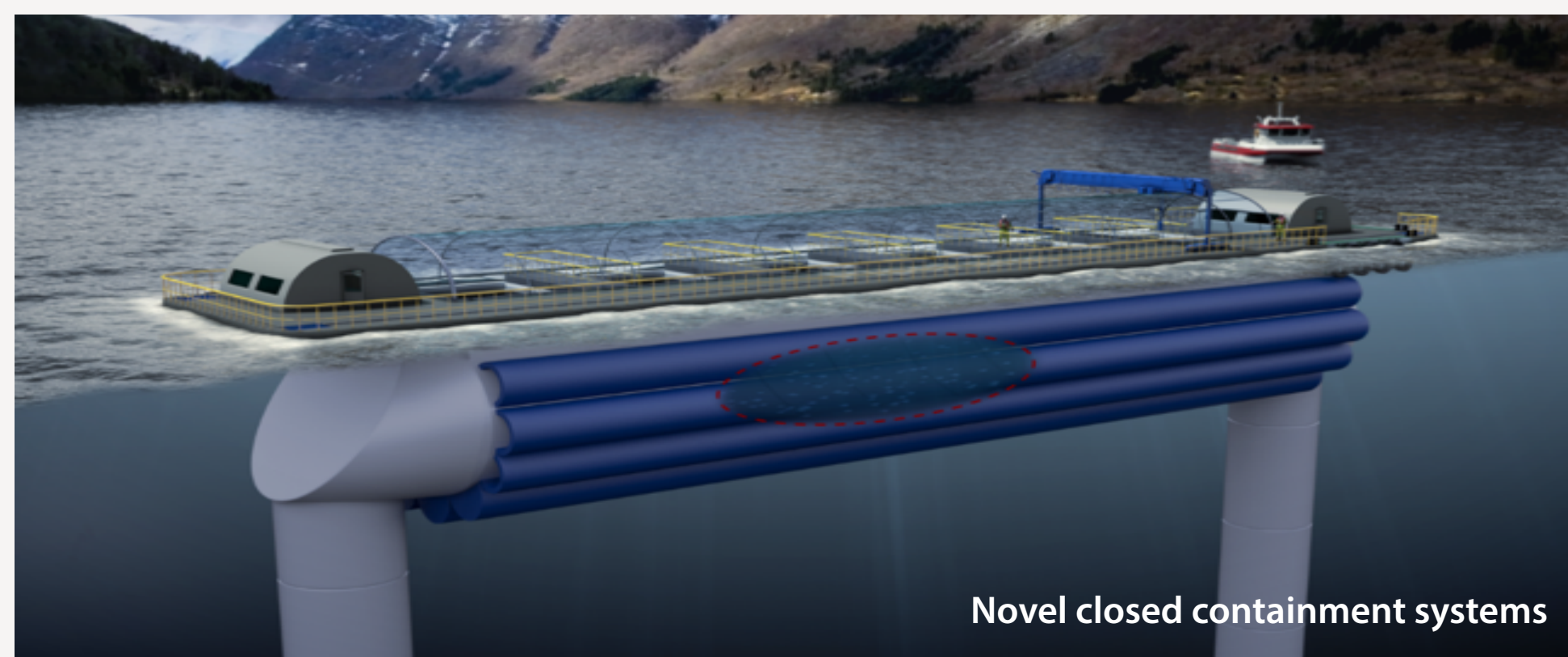
The food production from the sea needs to increase to comply with the increasing world population

Future aquaculture production needs to have a low environmental impact, be sustainable and be optimized for fish welfare.

This requires new biological insights and technical solutions.

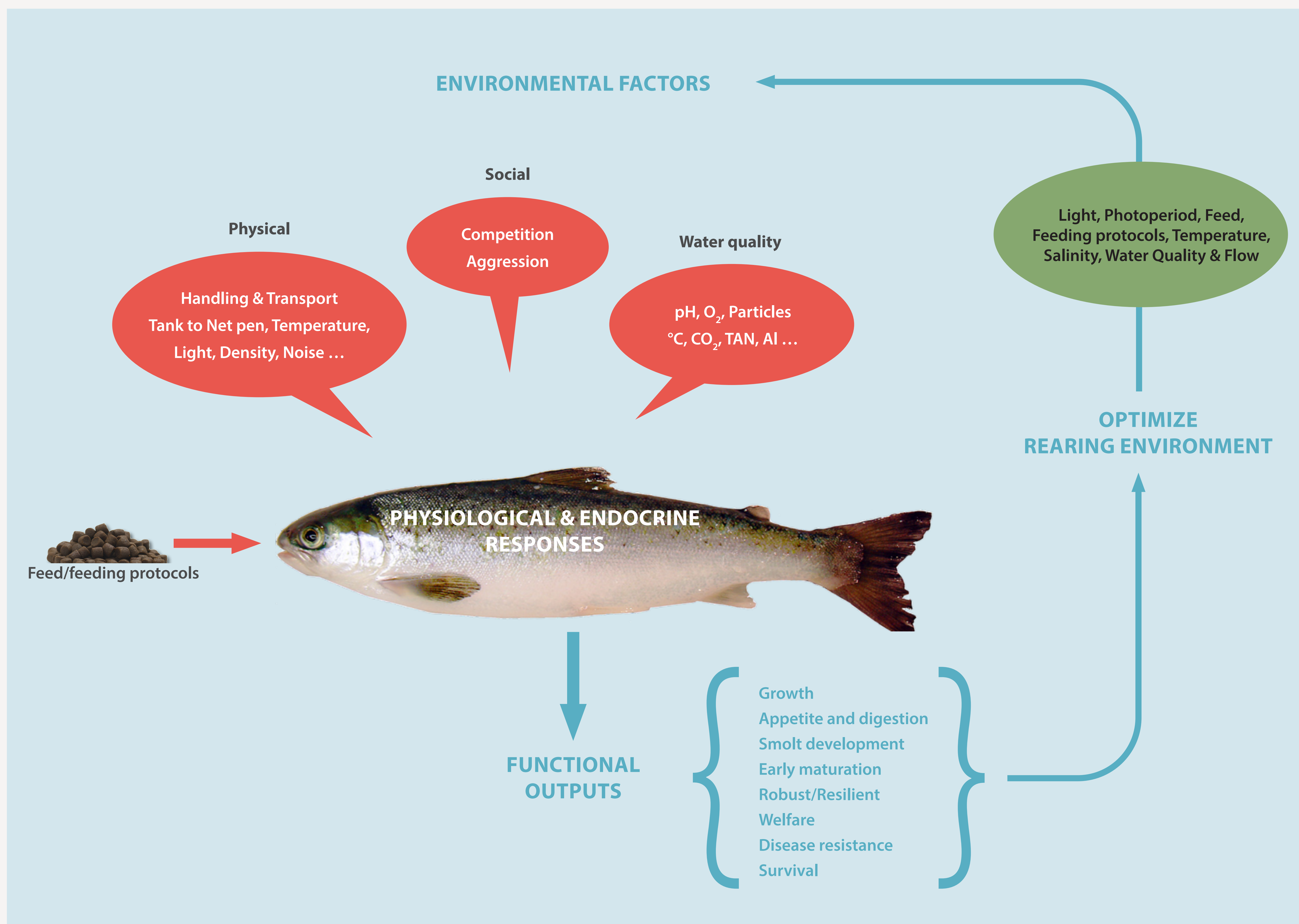
DEVELOPMENT OF NEW REARING SYSTEMS

The industry is actively exploring novel technologies that permits better control of the rearing environment with reduced environmental impact. These systems will need to meet requirements for fish welfare and resource sustainability.



BIOLOGICAL RESEARCH

Aim: Our groups work towards a better understanding of the impact of environmental factors and optimal conditions for the fish in these closed systems



IMPLEMENTATION

This knowledge is used to optimize production in closed and semi-close containment systems and to provide new welfare and production diagnostic tools.

INNOVATIONS

- Develop robustness indicators
- Develop good welfare indicators



UNIVERSITY OF BERGEN

