



smartfarm 



Welcome  
to Smart Farm AS  
The **Smart** way to **Farm** underwater!



# An Innovation Company!

Smart Farm AS is a Norwegian company with more than 30 years of experience in aquaculture.

We are specialized in solutions and technology for cost effective and environmentally friendly farming of bi-valves.



Photo: Tommaso Cantelli

Since husbandry and harvesting is all done underwater it makes it easy and cost effective:

To reduce the impact of fouling and predators;

It also gives the efficiency to cope with fast marine changes;



We manage waves up to 7 meters and currents up to 4 knots!

The capacity and production rate of our machines are far beyond all other rope-cultured mussels.

We can harvest 30 tons of mussels per hour!





Increased harvest,  
reduced risk,  
high production rate,  
low production cost,  
high return on investment!

# Return on Investment



## Shellfish Farming

has existed for a long time. It is known since the times of the Romans, maybe even before. Traditionally it is artisanal and when scaling the family based farming technology to commercial farming: you will run into profitability issues.



## 3P Sustainability

Smart Farm AS is a Triple Bottom Line company, both internally and externally: designing solutions for your **people** (safety, food), the **planet** (environmentally friendly, circular economy) while ensuring your **profit** (ROI, growth).



## Modern Technology

Smart Farm is the first company to take scaled up shellfish farming into commercially viable solutions.

**It is the only company today** that provides modern solutions from farm design to harvesting of commercial size shellfish.





Our systems are suited for  
farming in both open waters  
and sheltered sites, and take all  
aspects of husbandry and  
harvesting underwater!

# Overview of Smart Farm® Mussels



## The SmartUnit

has a collector net made of rope on which the bi-valves settle and grow. It is suited for growing full market size mussels or purely growing seed through the nursery face. The type of rope, its diameter and mesh size depends on species to farm and expected harvest.



## The Mooring

keeps the system in place both in open waters and sheltered sites. We moor in sheltered sites, winter iced fjords and open waters with waves up to 7 meters and significant to strong currents up to 4 knots.



## The Husbandry & Harvesting

machine uses different brushes and other variables such as speed, depending on the job you want done. You can control the density of the spat, remove predators, fouling, harvest and clean the collectors for a new season.





Our SmartCare systems are suited for caged farmed shellfish with or without feeding needs.

All husbandry under water!

# Development of Smart Care Solutions



## The SmartCare solution

Is to be designed for farming caged farm shellfish in open waters, and the system will be an all-in-one solution, addressing access to food, fouling, bad weather and tumbling, all under water.



## The Mooring

-as for the Smartunits- keeps the SmartCare system in place both in open waters and sheltered sites. It makes use of the vertical water column increasing the footprint of the farm to 3 dimensions.



## The Husbandry

Is all under water! With a machine that uses different variables to control the fouling, remove predators, or just tumble the oysters for a deeper cup.





Health, Safety & Environment is  
close to our hearts and mussel  
farming contributes to 10 UN  
Sustainability Goals!

# Health, Safety & Environment



## Health

Mussels, oysters and other shellfish are high in protein, Omega 3 and almost all vitally necessary vitamins and minerals. Mussels are considered as food for the future to combat hunger in a sustainable world.



## Safety

When all husbandry and harvesting is automated and done underwater, there are no more bent backs and dangerous manoeuvres with moving parts. At the same time safety can be maintained also in more difficult weather conditions.



**smartfarm**

## Environment

Mussels and oysters are filtrators and clean waters from Nitrogen and Phosphorus at the same time as they clear the waters and improve visibility. Our farms are non-disruptive and aesthetically pleasing.





Scandinavian Design  
endeavours to be low impact,  
non-disruptive  
and one with nature.

# Visual of the Smart Farm Systems





We have experience in  
advising companies on how to  
increase their bottom line

-

from start-up to scaling-up with  
Smart Farm solutions

# We are with You all the way!



We are generous with our knowledge at the same time as we protect our customers and their competitive advantage.

It is key to us to establish trust and work closely with the people and companies that choose to use our systems.

All our solutions are custom made to suit your business, your location and your needs.

We are open to adapt and design new solutions for new ideas and we believe that our expertise jointly with the local expertise brings the best systems for the efficient production at site.



Photo: K. Vindfallet

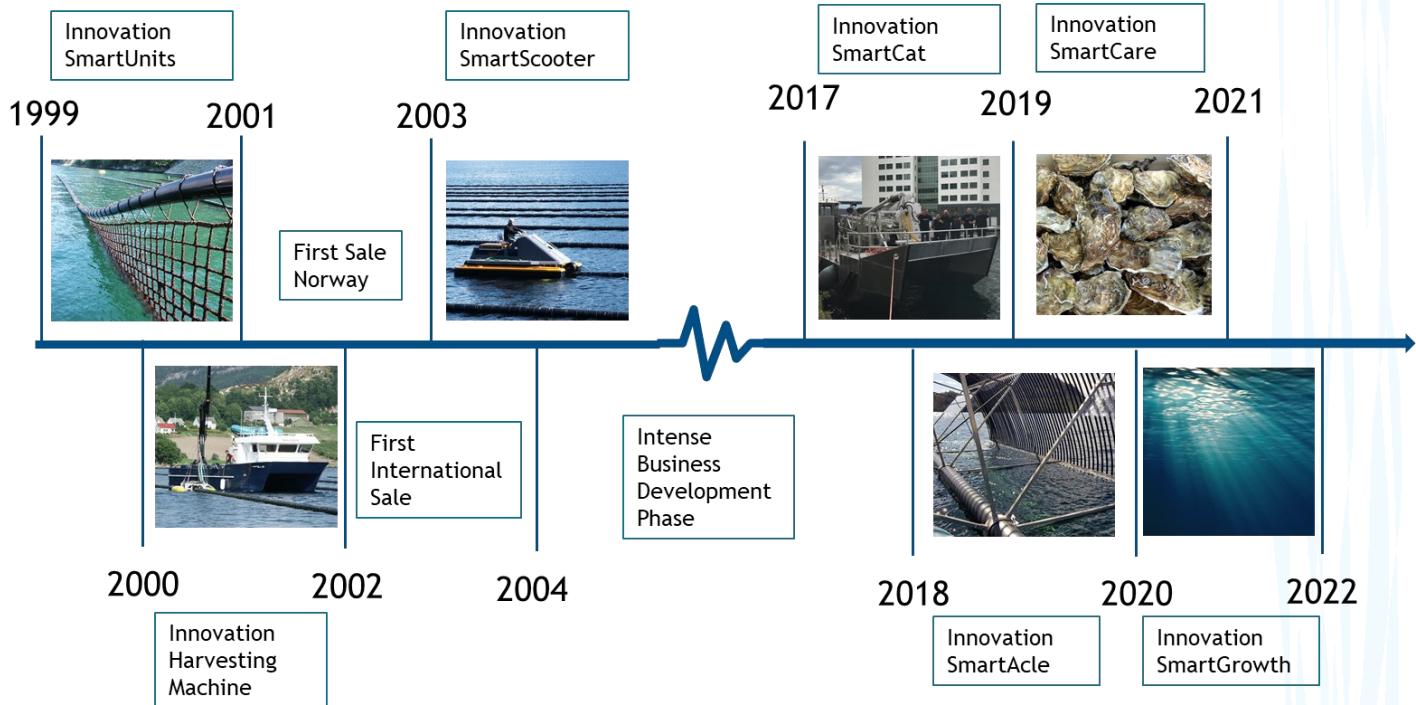


Photo: Hans B. Henriksen



More than 20 years of experience  
and continuously developing with  
new ideas and new knowledge,  
keeping abreast with global  
trends and innovations.

# Making history with new developments...





If you want to be profitable in a  
competitive market;  
**Farm the Smart way!**



# SmartFarm Solutions In a Nutshell

## Good Growth

- \* Mesh design by species
- \* Population density control
- \* Fouling & predator control
- \* Depth control for nutrient availability
- \* 24/7 underwater



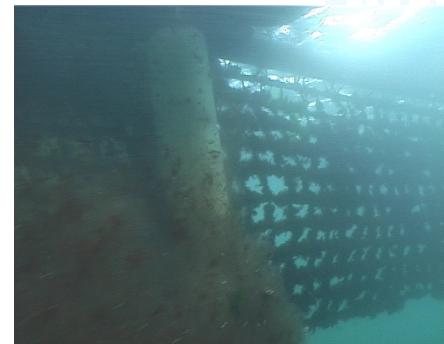
## Low Risk

- \* High Quality and Long Life
- \* Copes with fast marine changes
- \* 7 meter waves, 4 knots currents
- \* No dismantling and reassembling
- \* Kept permanently in water
- \* Easily moored-Easy to move



## HSE Friendly

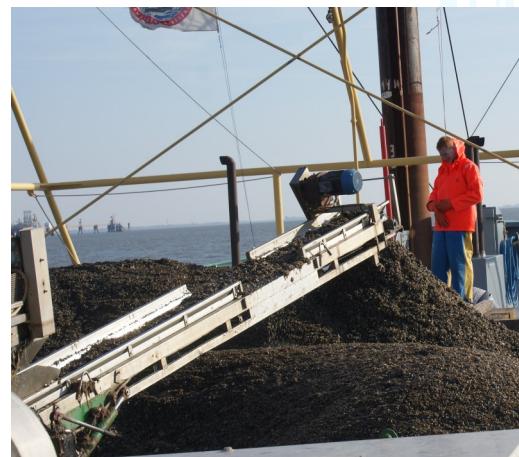
- \* Improved working conditions
- \* Increased safety for personnel
- \* Reduced risk of incidents
- \* Produce of minimal waste
- \* Minimal visual impact





## Harvest time in Germany!

- \* 150 tons per day
- \* 3-4 knots tidal currents
- \* Total production 4.000 tons in 5-6 month cycle





# Contact Info

## Smart Farm AS

Visiting Address:  
Dokkgata 14  
4014 Stavanger  
Norway

## Wanting to know more?

We love to talk mussels  
and underwater  
farming solutions!  
[www.smartfarm.no](http://www.smartfarm.no)

## We are here for you.

Phone: +47 51 59 59 15  
[sales@smartfarm.no](mailto:sales@smartfarm.no)



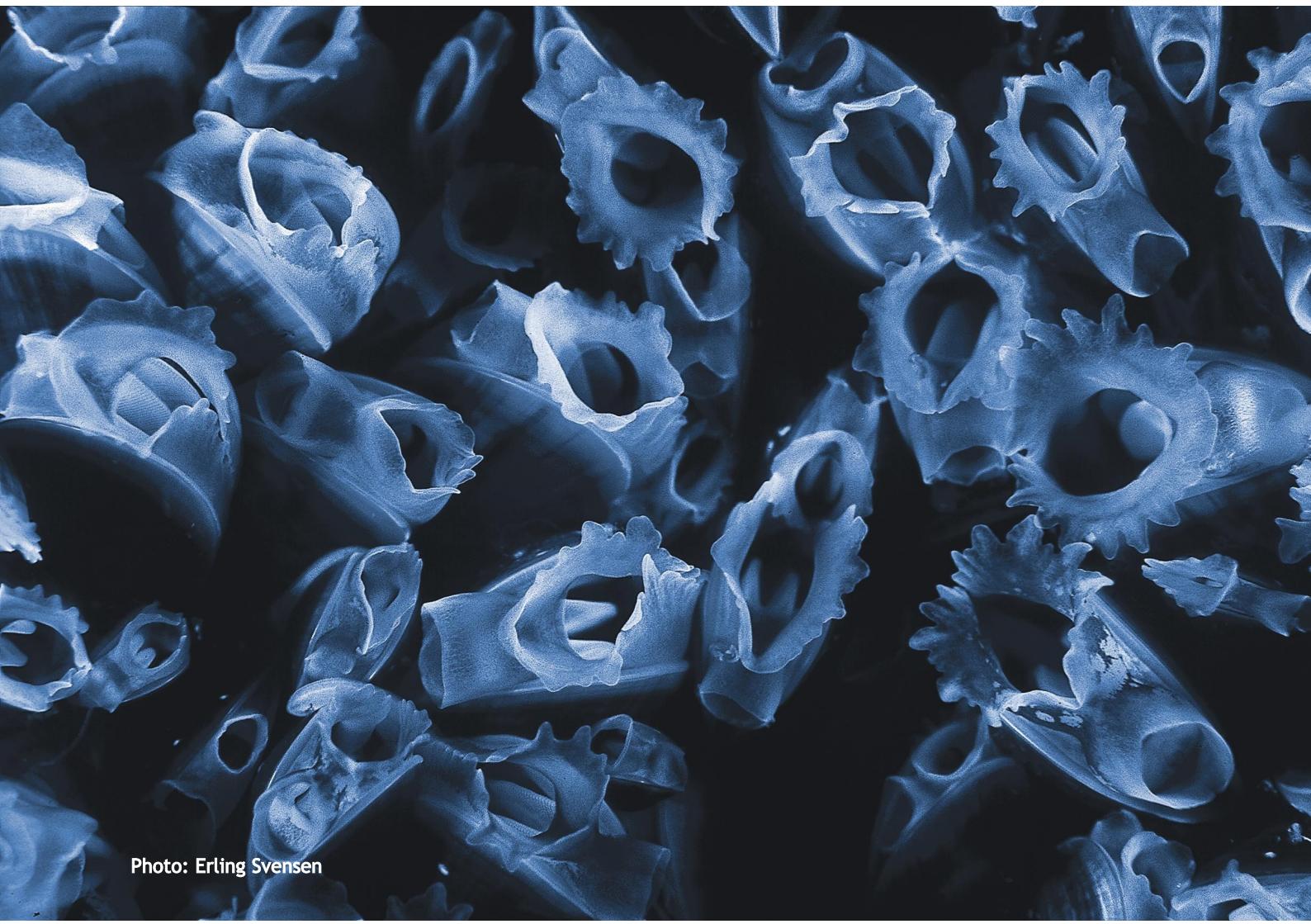


Photo: Erling Svensen