

NRK innslag på Lokalen og Dagsrevyen:

<https://tv.nrk.no/serie/distriktsnyheter-rogaland/201910/DKRO99100219/avspiller#t=3m6s>

<https://tv.nrk.no/serie/dagsrevyen/201910/NNFA19100219#t=17m43s>



AUTONOM FREMTID PÅ TAU

Helge Sverre Eide
Business Development Manager



BLUE LOGIC
Creative
Subsea
Solutions

The future is Autonomous - Autonomous Robots/Drones



BLUE LOGIC

More Data – Artificial Intelligence



Big data er ikke lenger bare for store selskaper, mener big data-sjefen i SAP. Illustrasjonsfoto: Colourbox

Real-time 3D Scanning - Autonomous systems



GAMLE GATER: Google Street View har som mål å fotografere alle verdens gater med 360-graders kamera. Her har tech lead Daniel Filip i Google Maps båret med seg systemet med 15 kameraer til Machu Picchu i Peru. Foto: REUTERS/Pilar Olivares

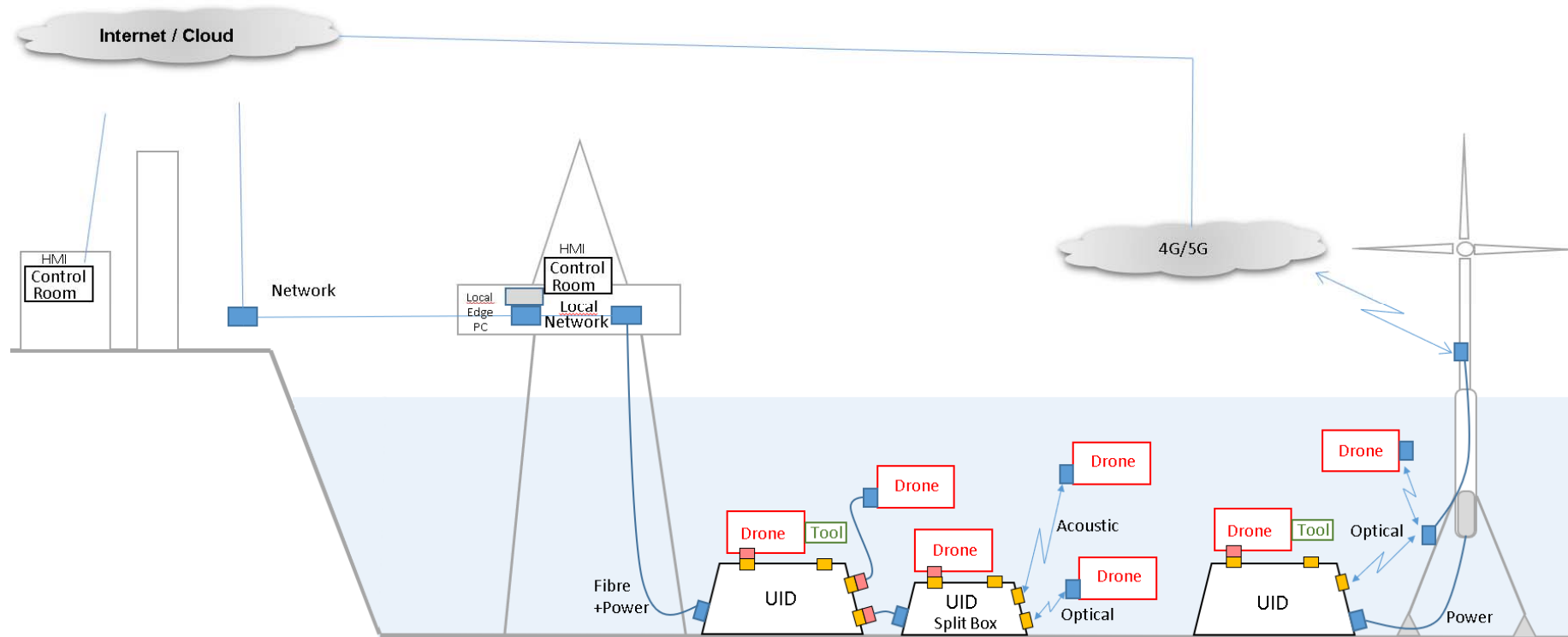


BLUE LOGIC

Why Drones?

- Reduce CO2 emissions/footprint
- 24/7 Subsea control and surveillance
- Understanding the Ocean dynamic – Environmental Research and monitoring
- Control and management of floating energy production
- Offshore fish farming – Feeding the world
- Remote control – Offshore work is moved onshore – We can settle wherever we like

Why Autonomous Charging?



Drone as a Service - Standardisation is the Enabler

Benefits

- High volume = Lower cost
- Reduced cost of entry = Small companies can drive open innovation
- Increased Quality and Reduced Price
- Reduced cost of change over to new service provider

We need

- Utility provider of Data, Power, and Mechanical connection

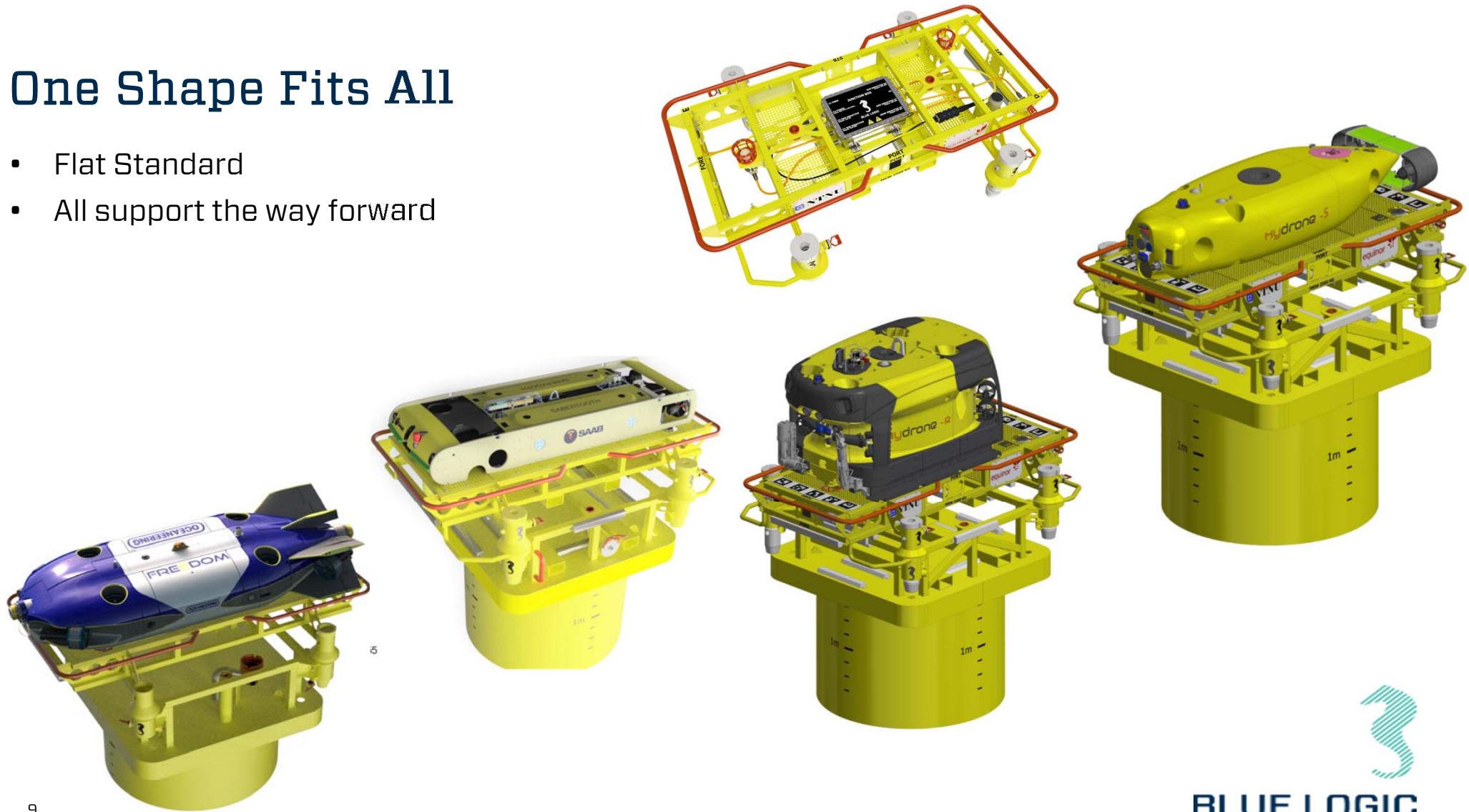
Solution

- Subsea Fuel Station that all can access
- Subsea Quay that can host all Drones
i.e. Universal Docking Station with “Subsea USB” (Utility Network)



One Shape Fits All

- Flat Standard
- All support the way forward

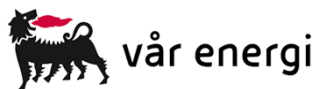


One Shape Fits All



SWiG  STANDARD INTERFACE

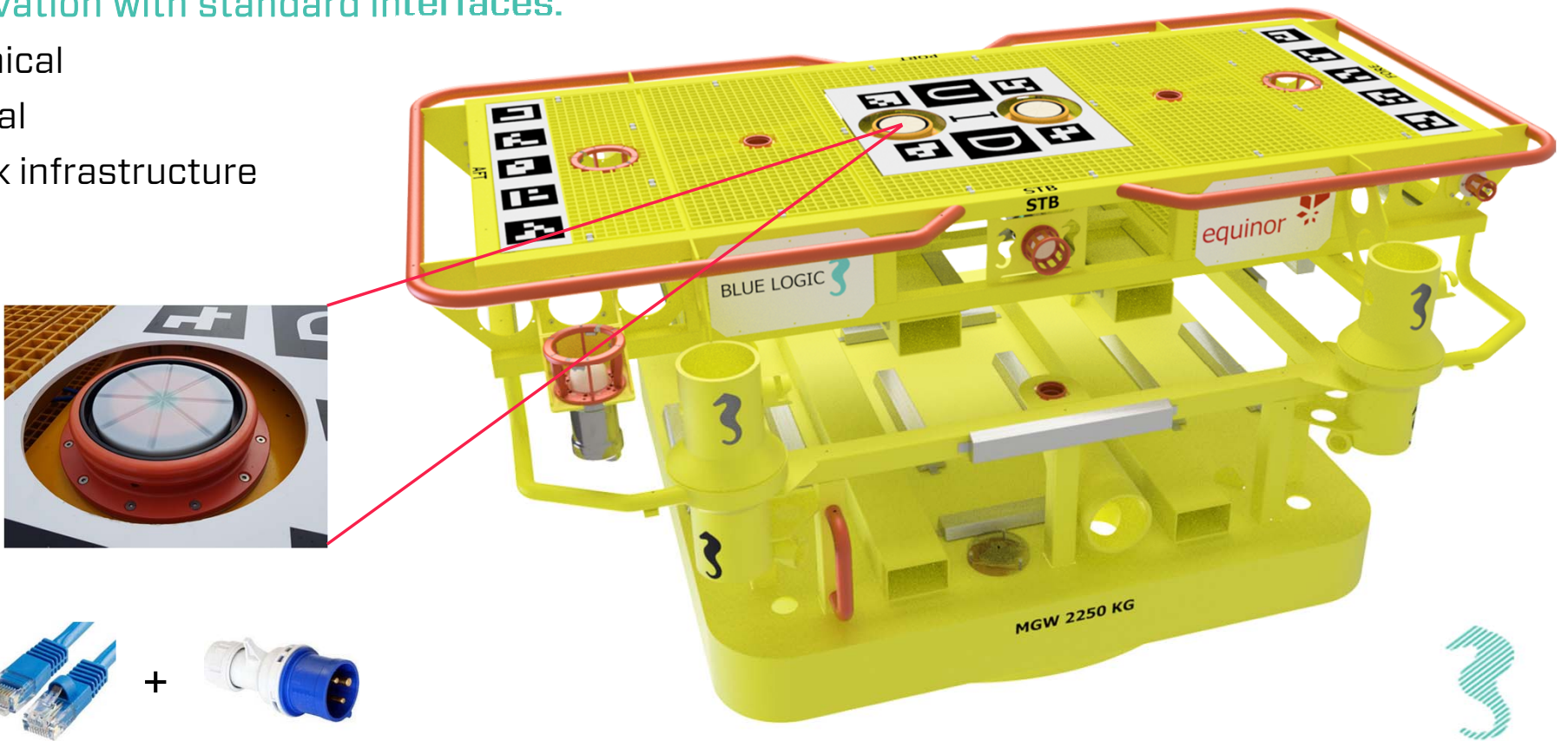
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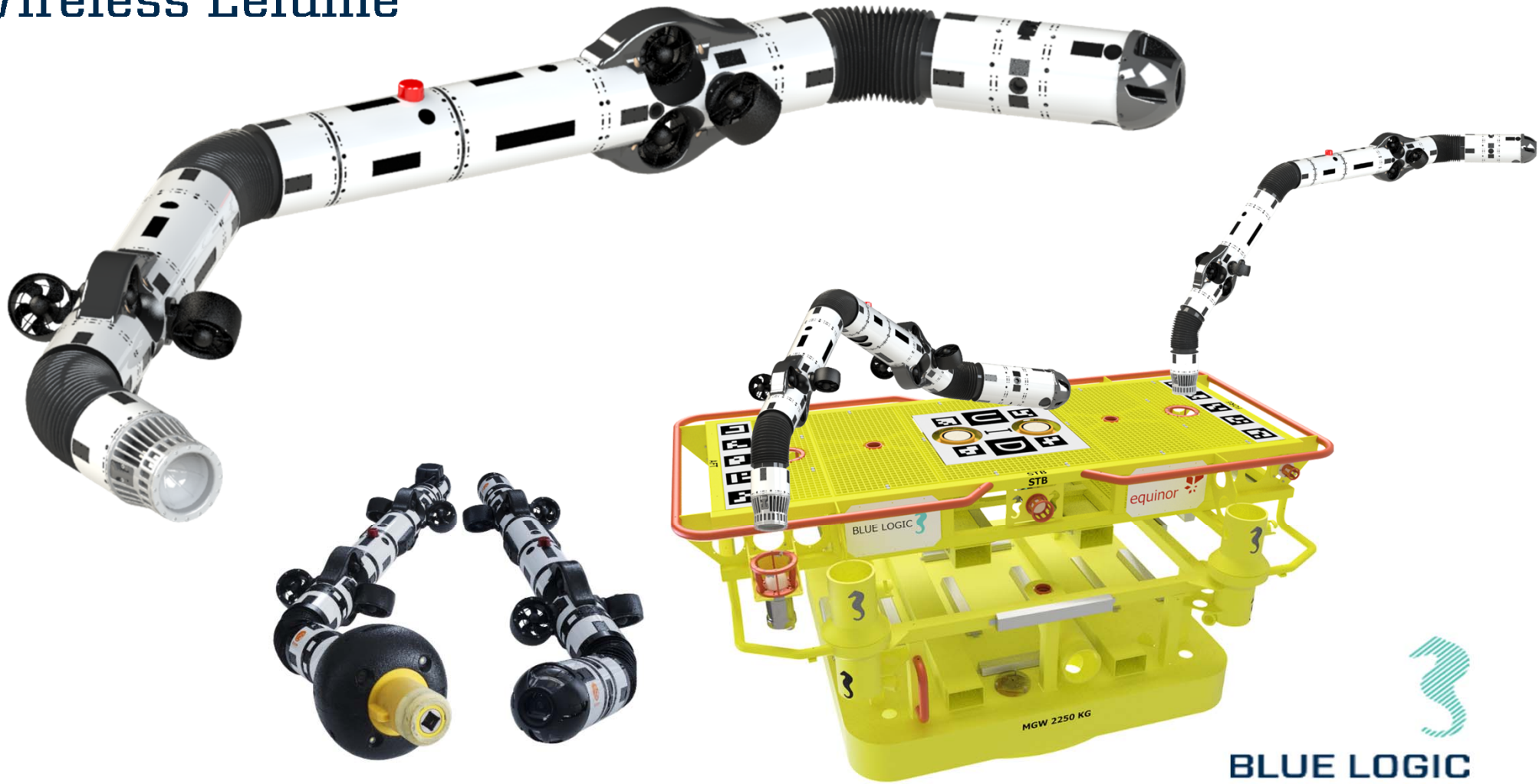
One Shape Fits All

Open Innovation with standard interfaces:

- Mechanical
- Electrical
- Network infrastructure



Wireless Eelume



Test and training center for autonomous air and sea drones

TAU AUTONOMY CENTER (TAC)

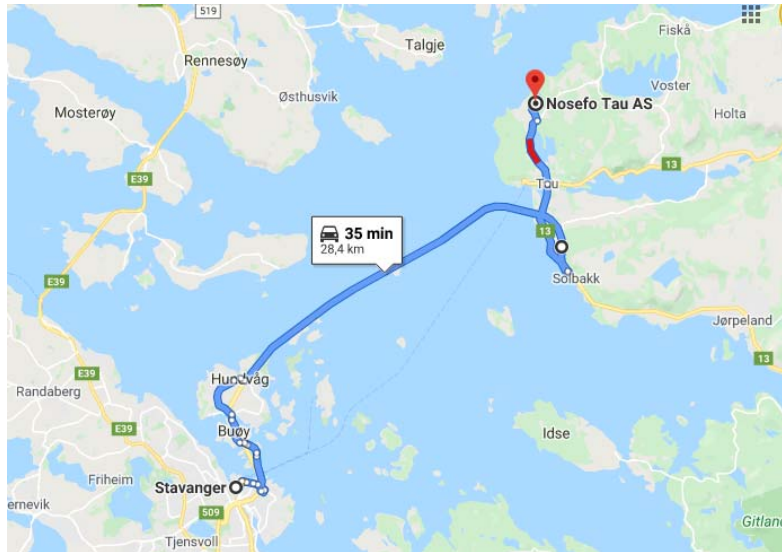
Til lands, til vanns og i luften med



Tau Autonomy Center

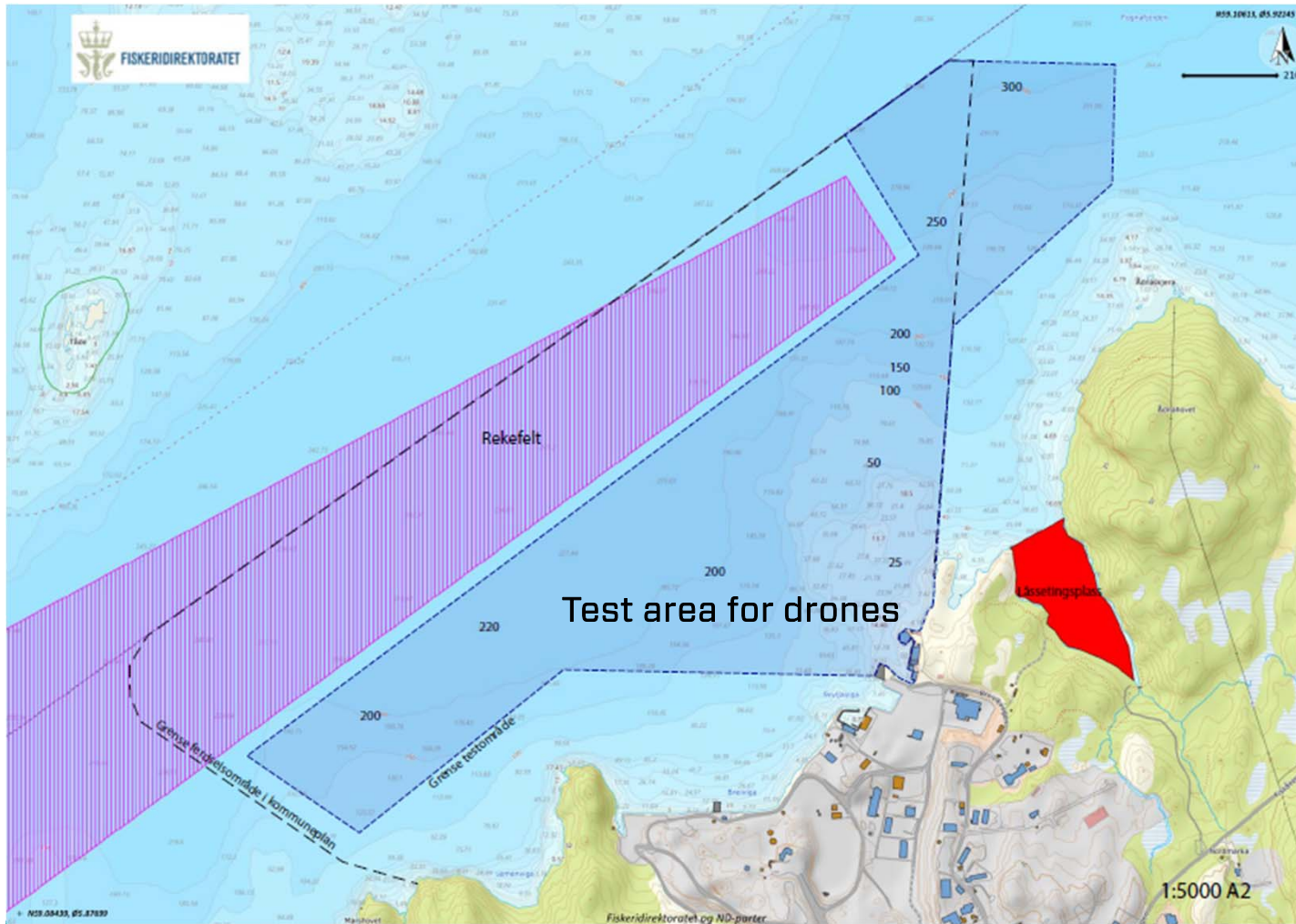
- Connecting Sea and Air
- Established to meet the industry's need for testing of air and subsea drones
- Manage of permits to use the Ocean Space and sea floor
- Long term subsea storage of test equipment.
- Provide infra structure for Qualification of autonomy
- Qualification and check out of Air drones minimum number of air time
- Network of service providers that has competence on Drones

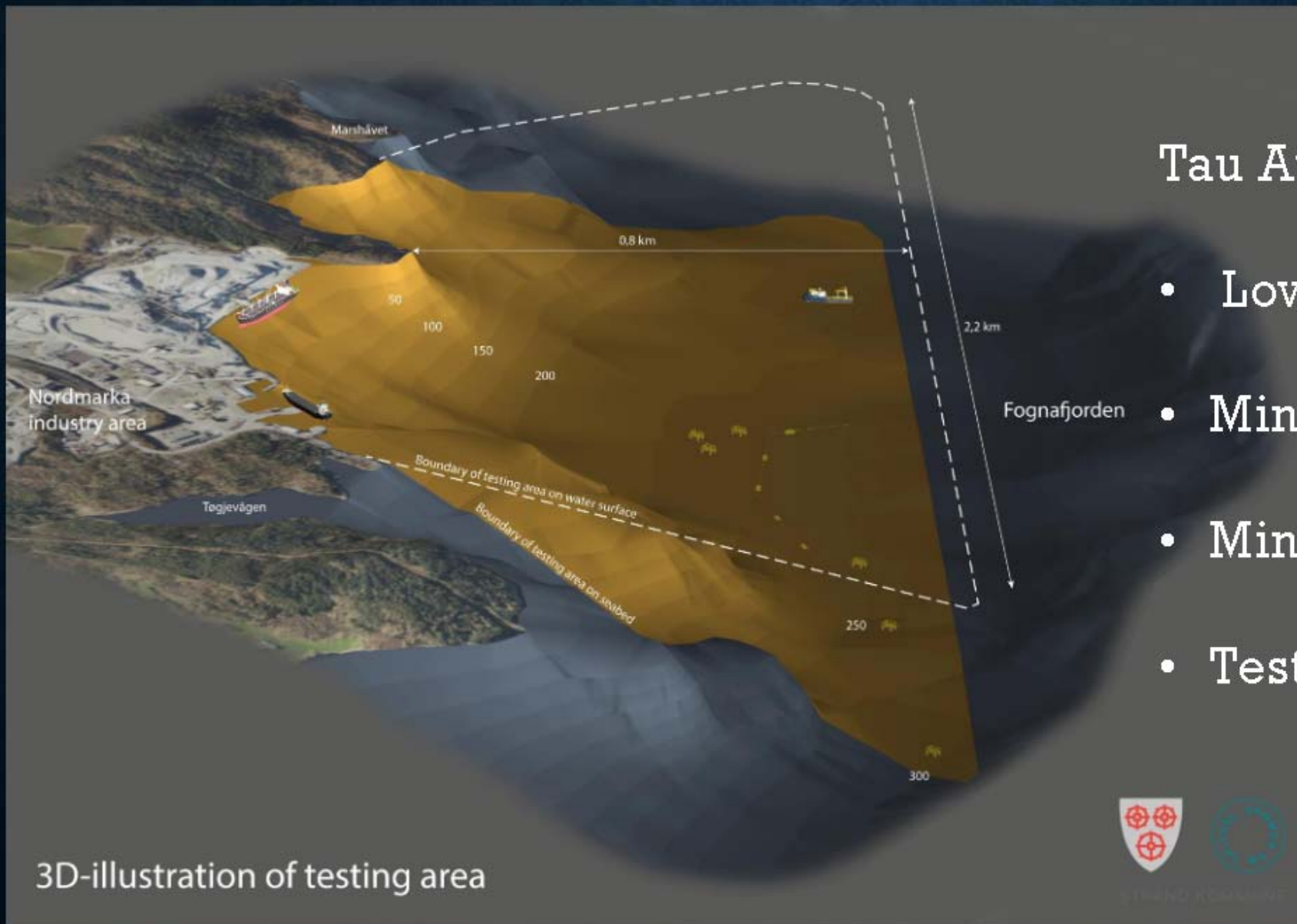
Tau Autonomy Center



Tau is located 30 min drive
from Stavanger







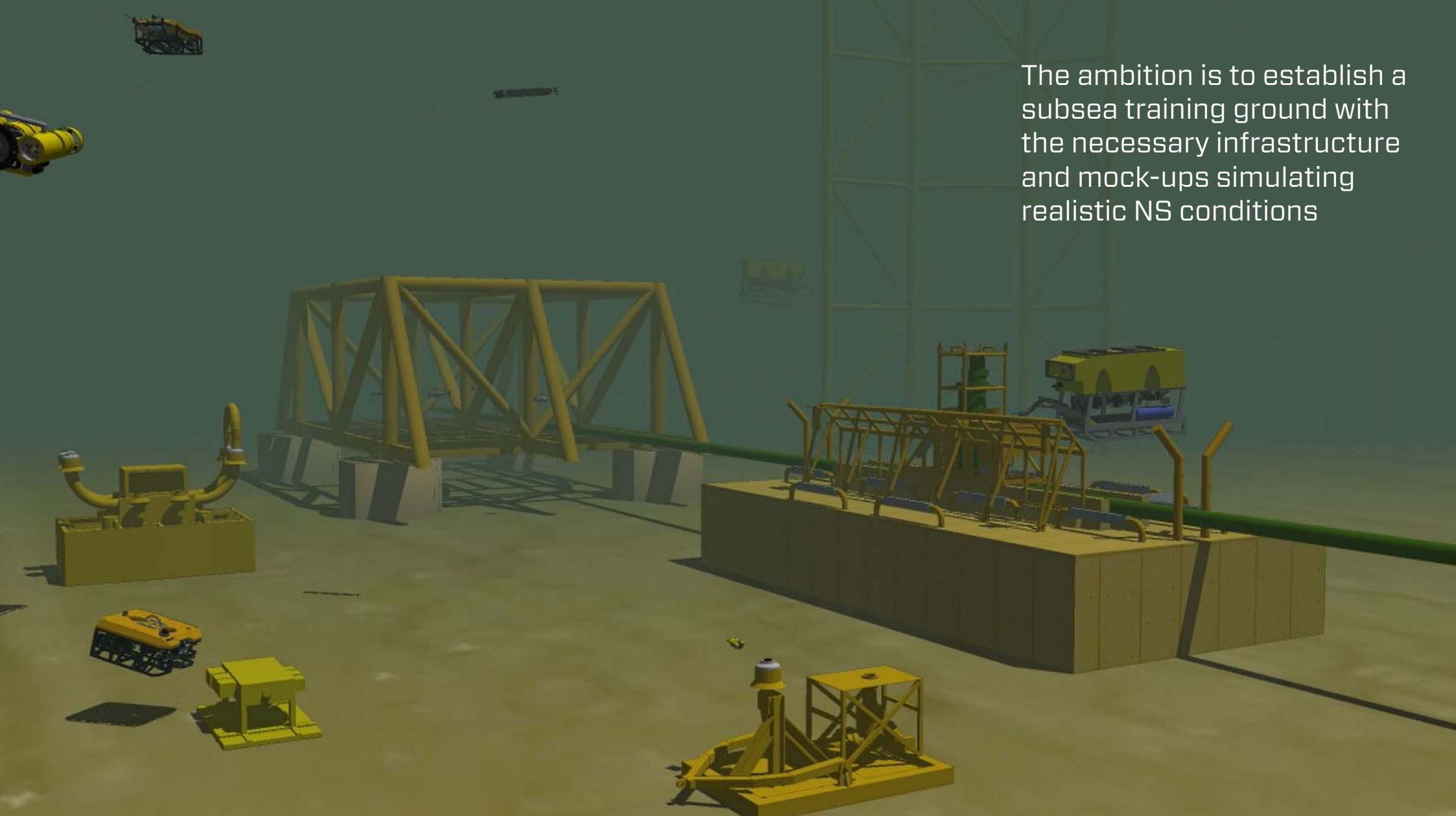
Tau Autonomy Center

- Low sea currents
- Minimum of swell
- Minimum tide
- Test area of 2 km².



STAVANGER

The ambition is to establish a subsea training ground with the necessary infrastructure and mock-ups simulating realistic NS conditions



Tau attracted aerial drones for several reasons

- Outside of airport control zone
- Scattered population
- Suitable terrain and objects in area
- Possibility to fly over both land and sea
- North Sea type helideck at Nosefo
- Close to Stavanger



KVS TECHNOLOGIES



Before subsea activities started at Tau, aerial drone companies established a test/training center in Tau.

KVS Technologies applies smart drones carrying out autonomous inspections and monitoring of power grids. Technology qualification and pilot training is done in Tau.

NOSEFO

Norwegian Center for Offshore Education



- Infrastructure
- Offices
- Deep water quay
- Utility systems
- Indoor test basin
- Mech workshop
- Test rig with helideck



BLUE LOGIC

Training rig with helideck and free-fall lifeboat

(formerly North East Frigg platform top)



Nosefo indoor training and test basin



BLUE LOGIC

Hva kan vi bidra med i vår region

- Fremtidens industri flytter ut på havet, må arbeiderne da flytte hjem?
- Vi som region må være med på å pilotere fremtidens teknologi

Tau Autonomy Centre (TAC)

Test and training center for autonomous air and sea drones

- Dette trenger vi innen følgende områder
 - Vindkraft
 - Bølgekraft
 - Undervannsgruve drift
 - Offshore fiske oppdrett
 - Miljø overvåking for å forstå havet
- Vi må investere i infrastruktur for å tilrettelegge



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TAC - Link

Følg også link på Facebook

<https://www.facebook.com/Tau-Autonomy-Center-TAC-112615106812030/>