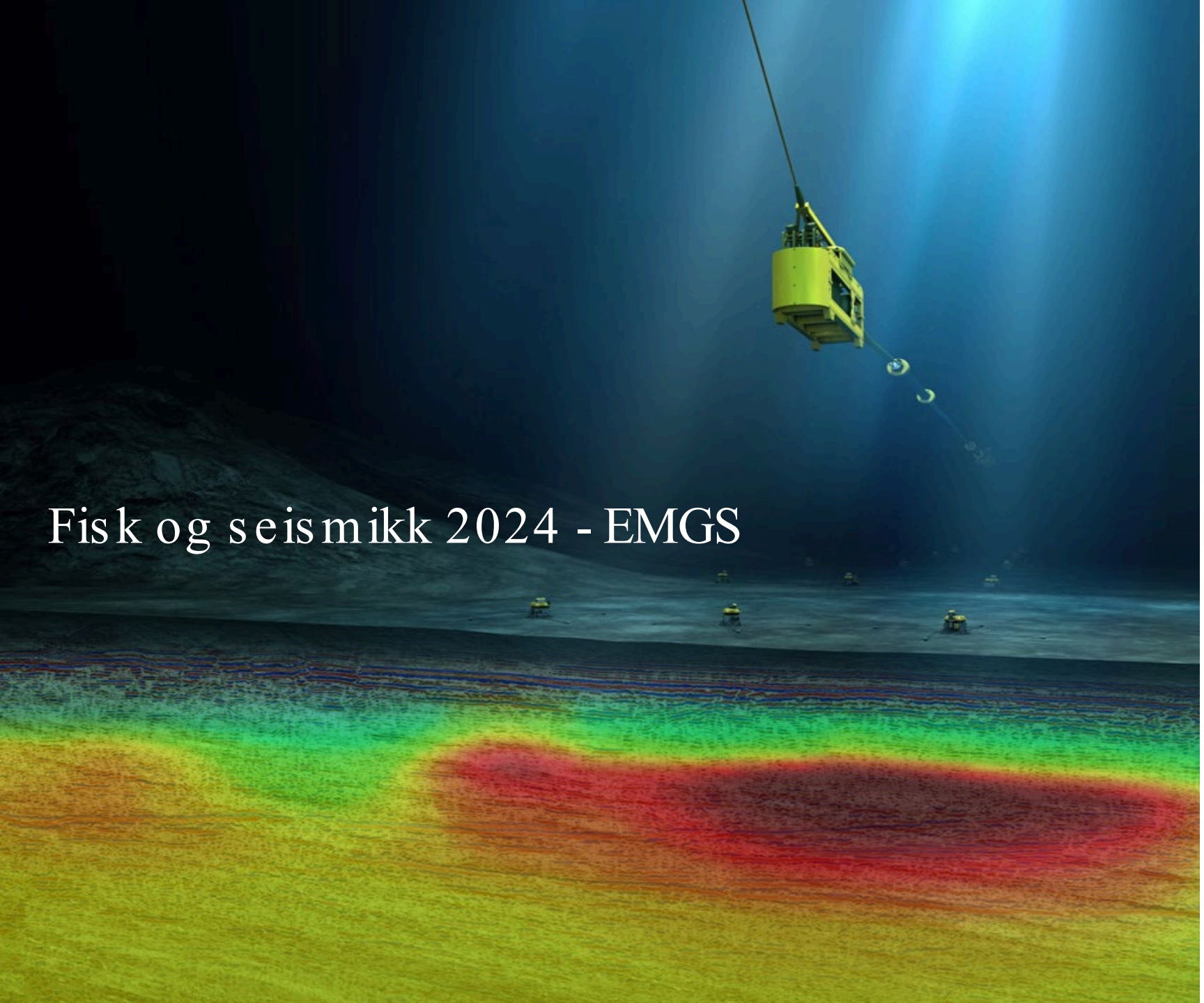


# Fisk og seismikk 2024 - EMGS

*Martin Hansen, Sales Director*
*4 April 2024*

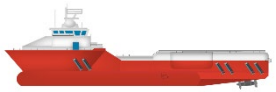
# Outline

- Quick update on EMGS and our vessel and equipment setup
- CSEM operations
- Coexistence and experience last few years

# EMGS – Global experience

*EMGS was founded in 2002, as a spin-off from Statoil/Equinor*

equinor

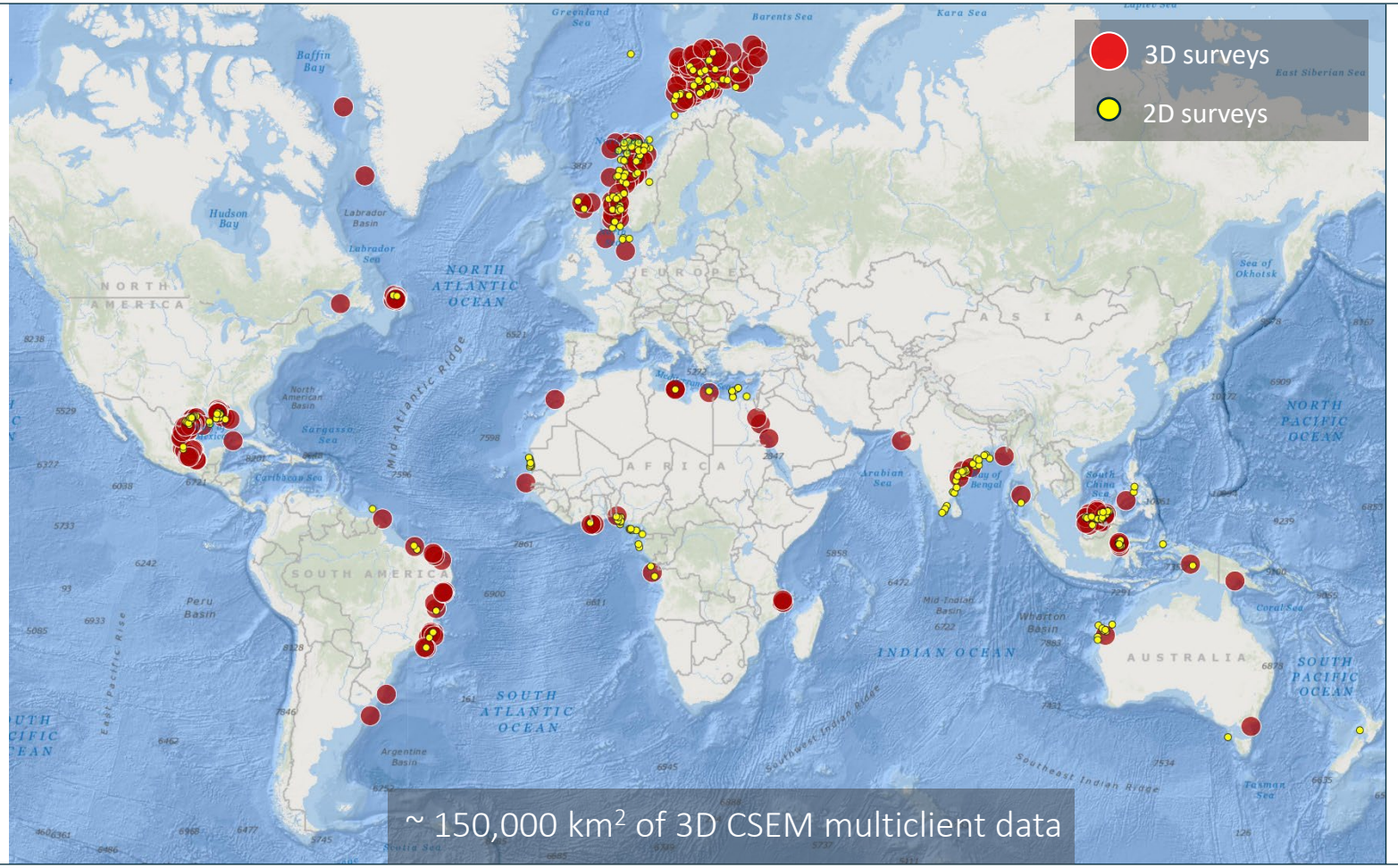


950+

surveys acquired

250.000+

kilometers towed



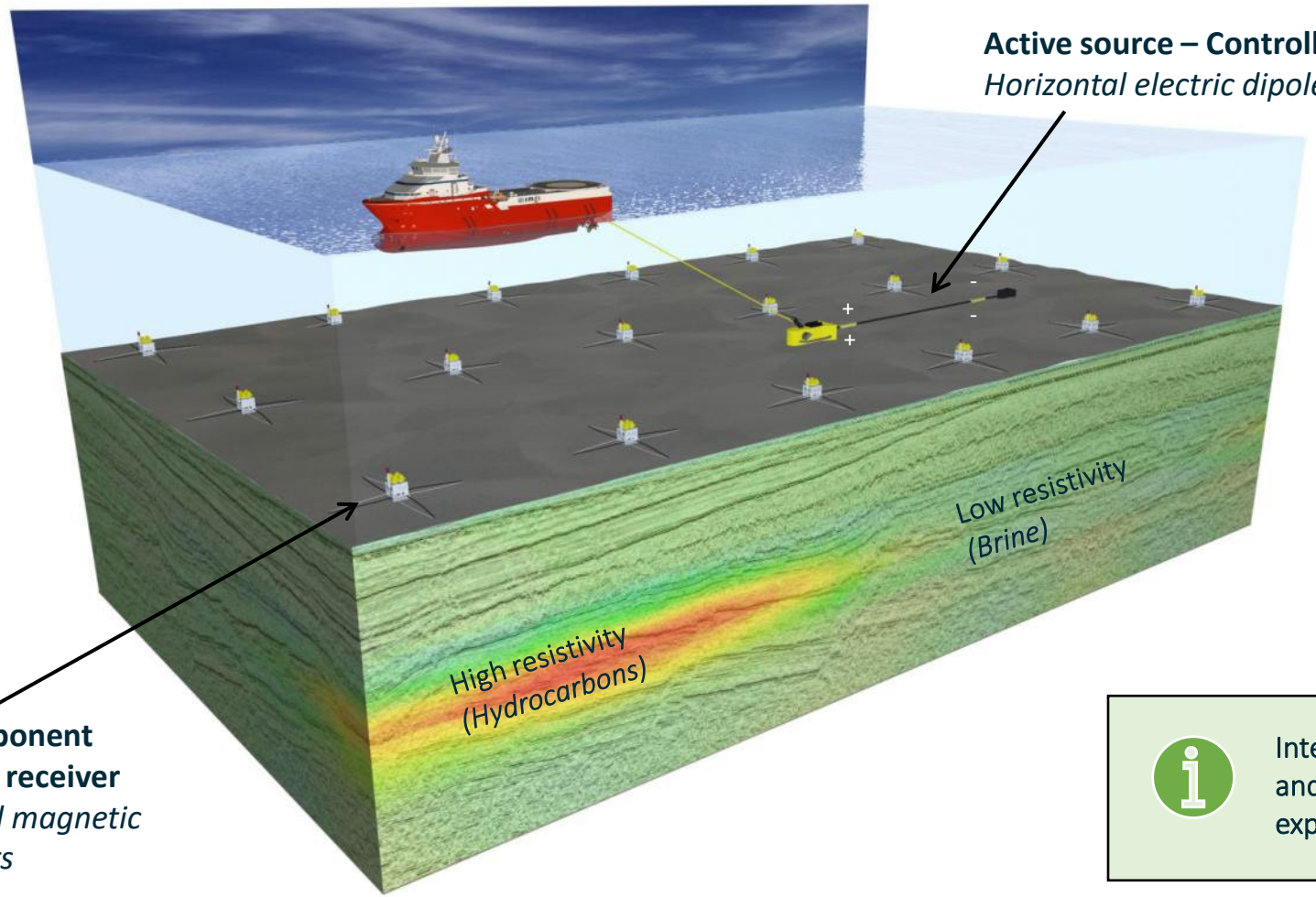
60.000+

receivers deployed

10-3700 m

water depth experience

# In short - the marine 3D CSEM method




**Active source – Controlled Source Electromagnetics (CSEM)**
*Horizontal electric dipole*

**Acquisition**
*Water depth*
*~10 – 4,000m*

**CSEM sensitivity**
*Prospect specific → Feasibility study*

**Multi-component EM seabed receiver**
*Electric and magnetic field sensors*

Integrated interpretation of seismic and CSEM reduces risk and improves exploration performance

# EMGS current vessel &

# CSEM equipment set-up

*Rx5 – 5th generation CSEM, low noise & high data quality marine nodes/receivers*

"The next generation system provides a step change improvement in the data quality"

*Equinor & Shell*

*Deep Blue EM source*

*Water depth – down to 4000m*

*Power – up to 10.000A*

*Shelf Express EM source*

*Water depth – 0-400m*

*Power – 7.200A*

***"The Next Generation Electromagnetic Acquisition System"***

*Statoil: A.K. Nguyen, P. Hanssen*

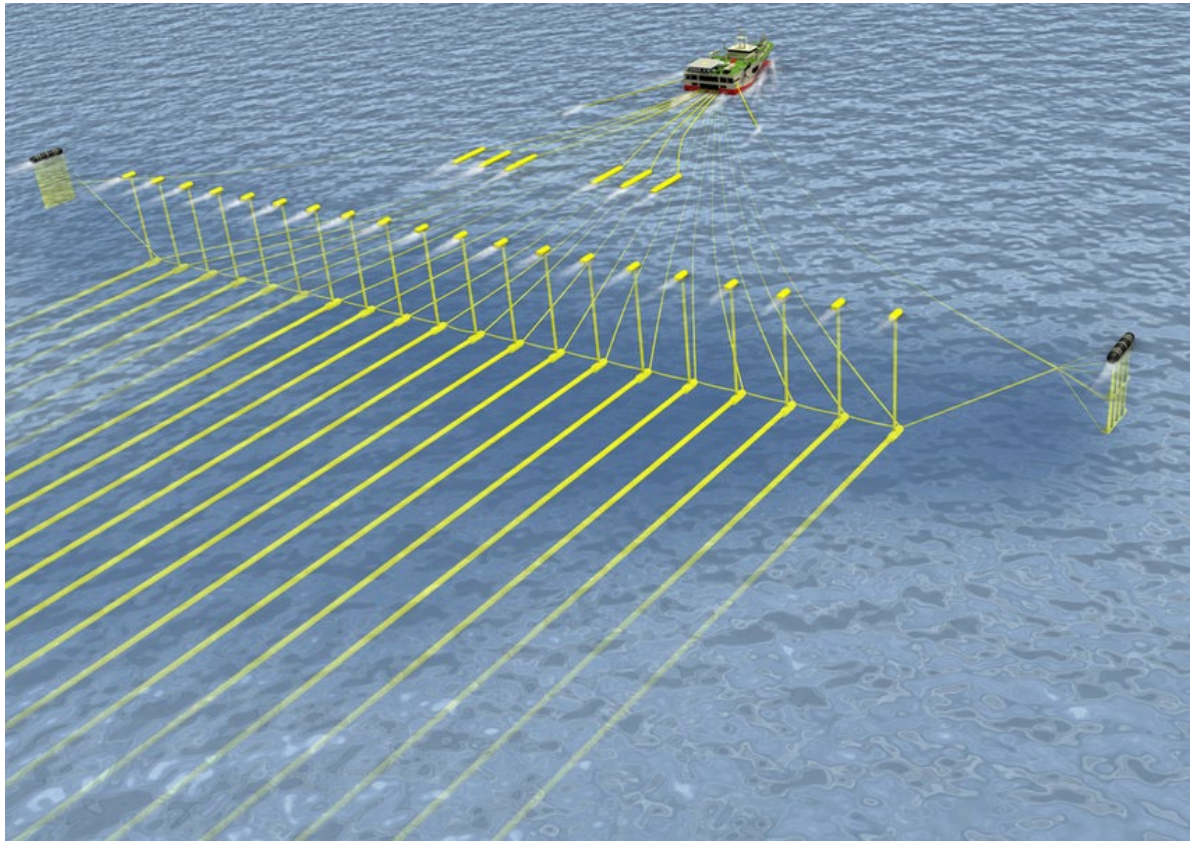
*Shell: M. Rosenquist, P. van der Sman, L. O Suilleabhain*

*EMGS: R. Mittet (EMGS), H.R. Jensen, L.T.T. Fogelin, M. Skarø*

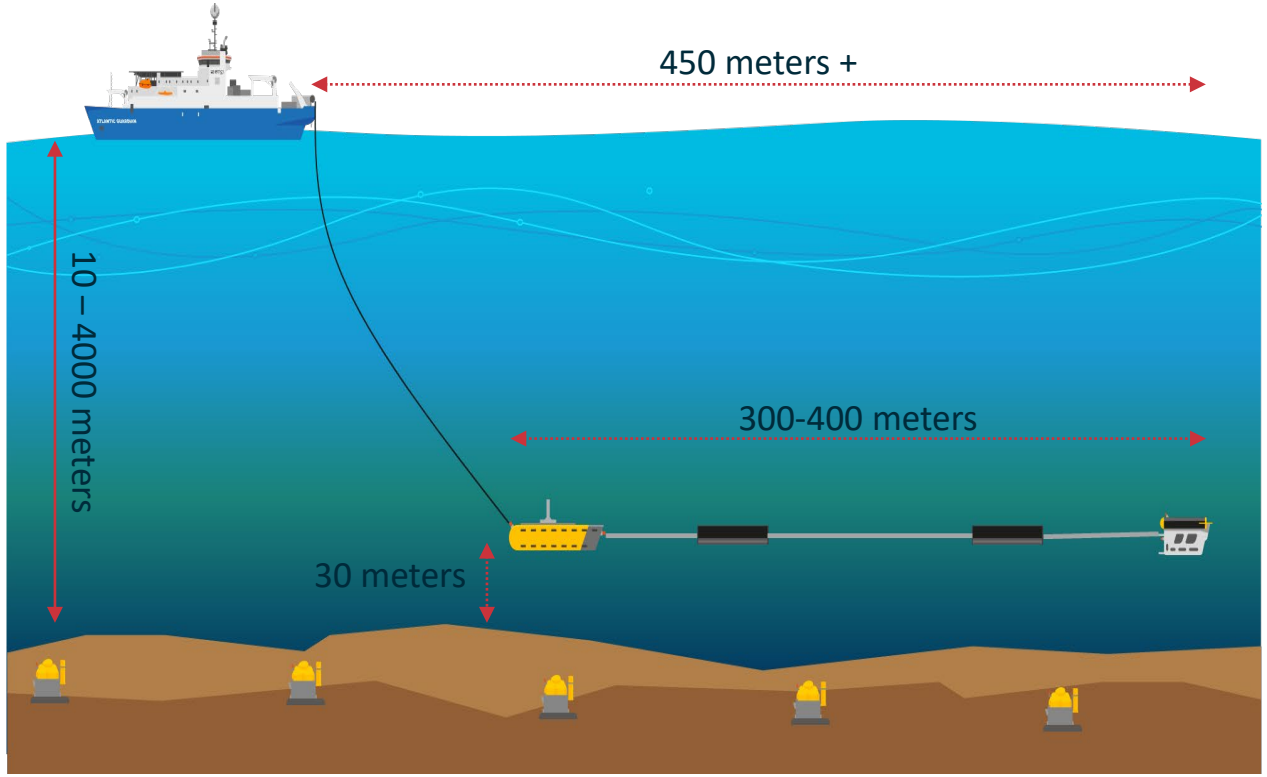
*79th EAGE Conference and Exhibition 2017*

# CSEM footprint during operations

Seismic setup

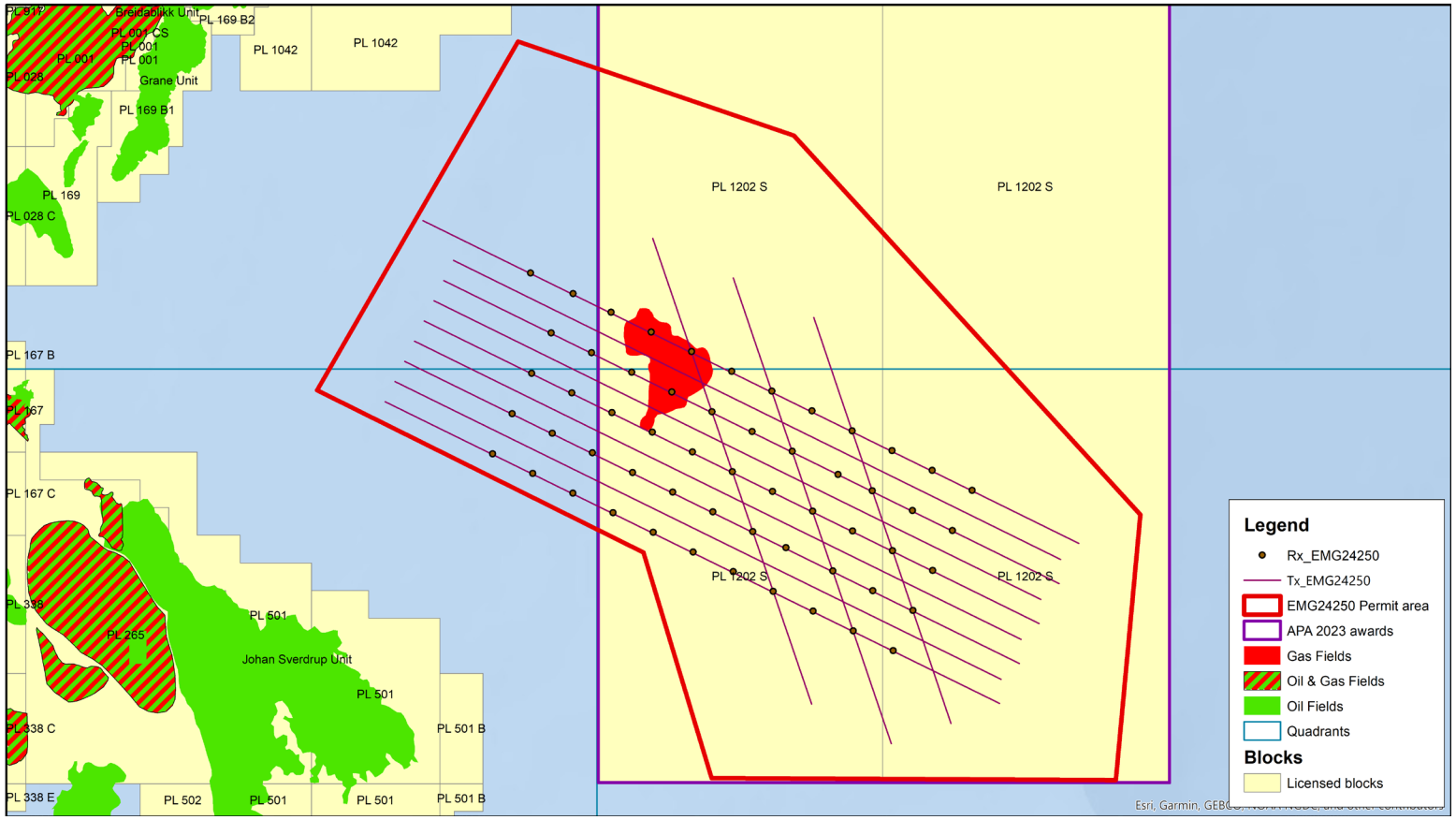


CSEM transmission – smaller area footprint



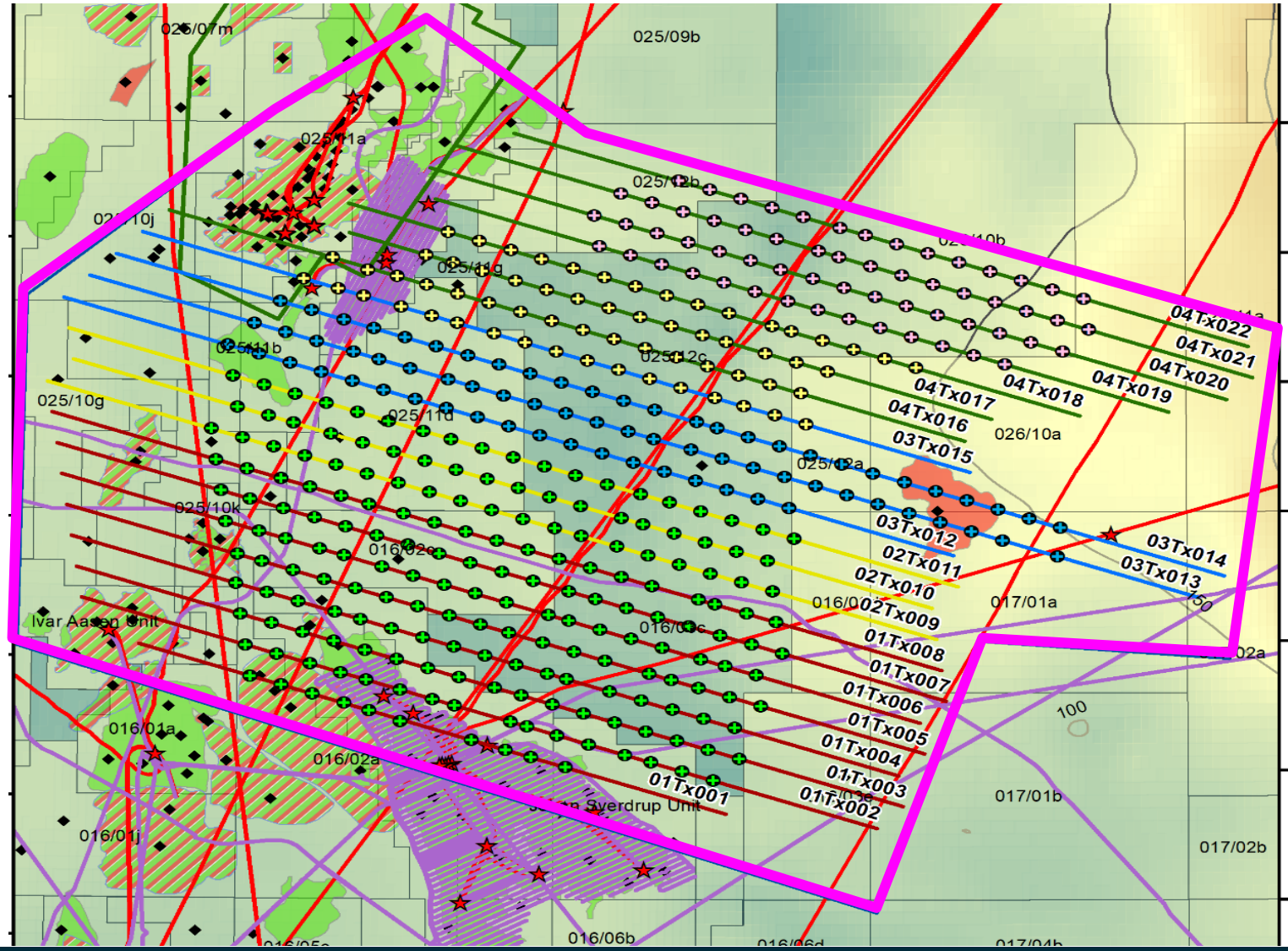
# Coexistence on the NCS - EMG24250 survey – just completed

- PL1202S license awarded in APA 2023
  - License signed in late March 2024
  - 1 year work program with CSEM acquisition
- Once license was announced we were started to look at historic fishing activity
  - “Norskerenna” is an active fishing area most of the year
  - April – October -> extremely busy
- Quick turnover from Equinor on behalf of the PL1202S license
- Survey started already end of February before the license was officially signed.
- Survey completed in March 2024

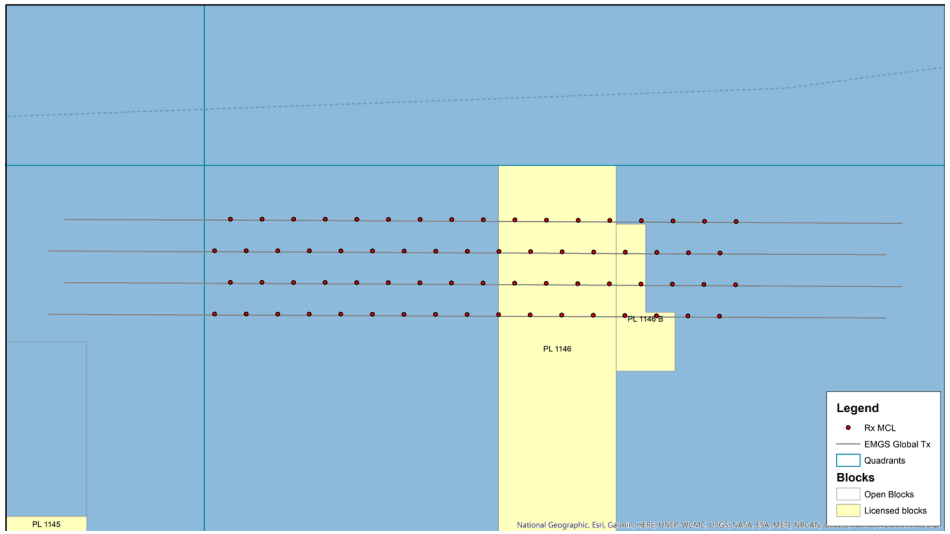


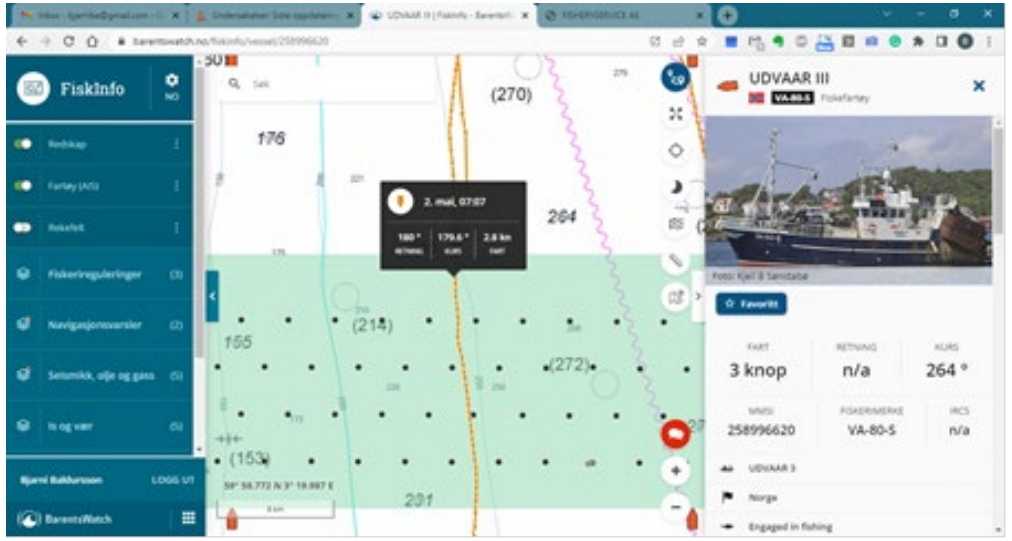
# Coexistence on the NCS - EMG21251 survey

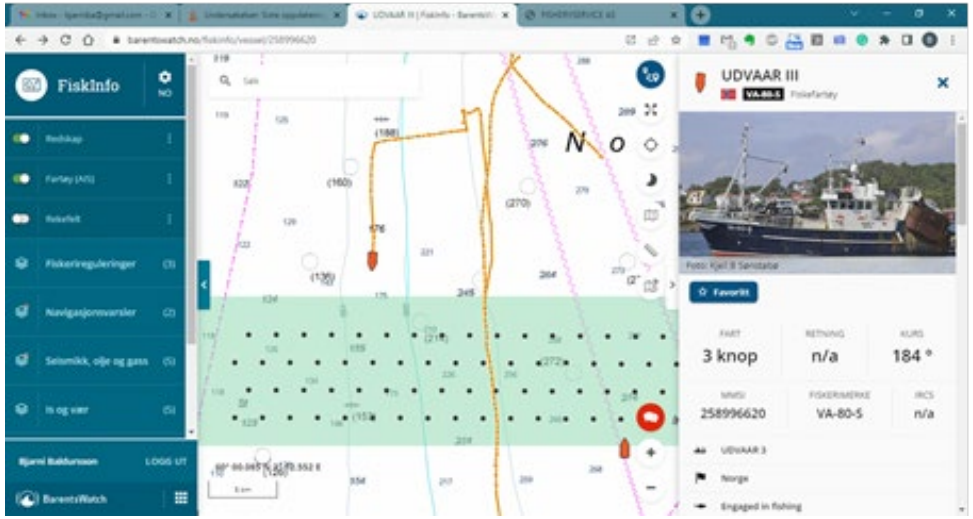
- Area with a lot of fishing activity
- Split survey area into 4 smaller areas within the permit area (pink polygon)
- Updated receiver positions in Barentswatch and active survey area on NPD/Sodir site
- Fishing activity was ongoing in the North while we were in the South and vise versa.

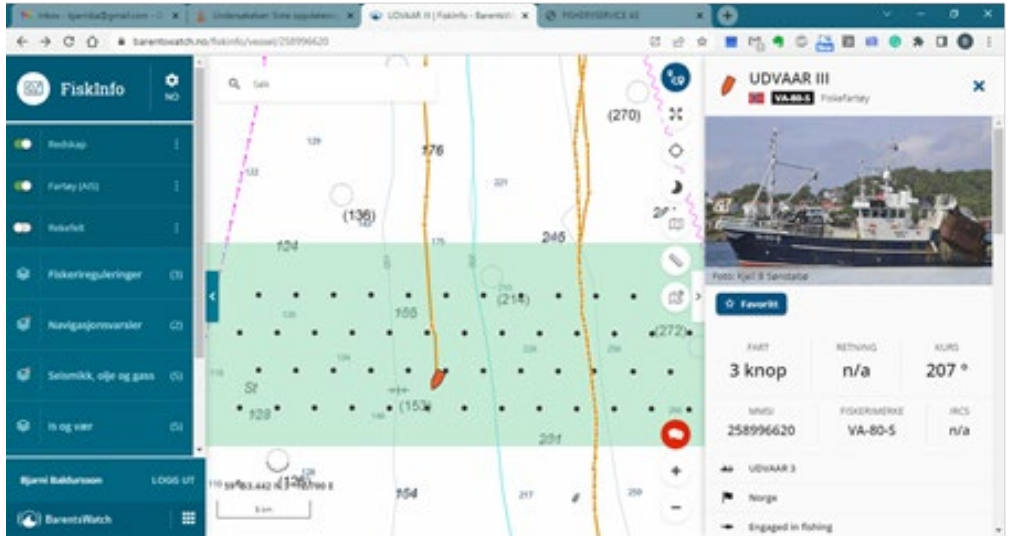


# Coexistence on the NCS – EMG22250 survey – Uddevaar III



# Summary

- Working with short timelines from contract award to acquisition
- Small footprint by our towing equipment
- If SIMOPS, will always try to split survey up in smaller segments
- Coexistence is important for all activities on the NCS
- Important with good communications both before and during operations is key