

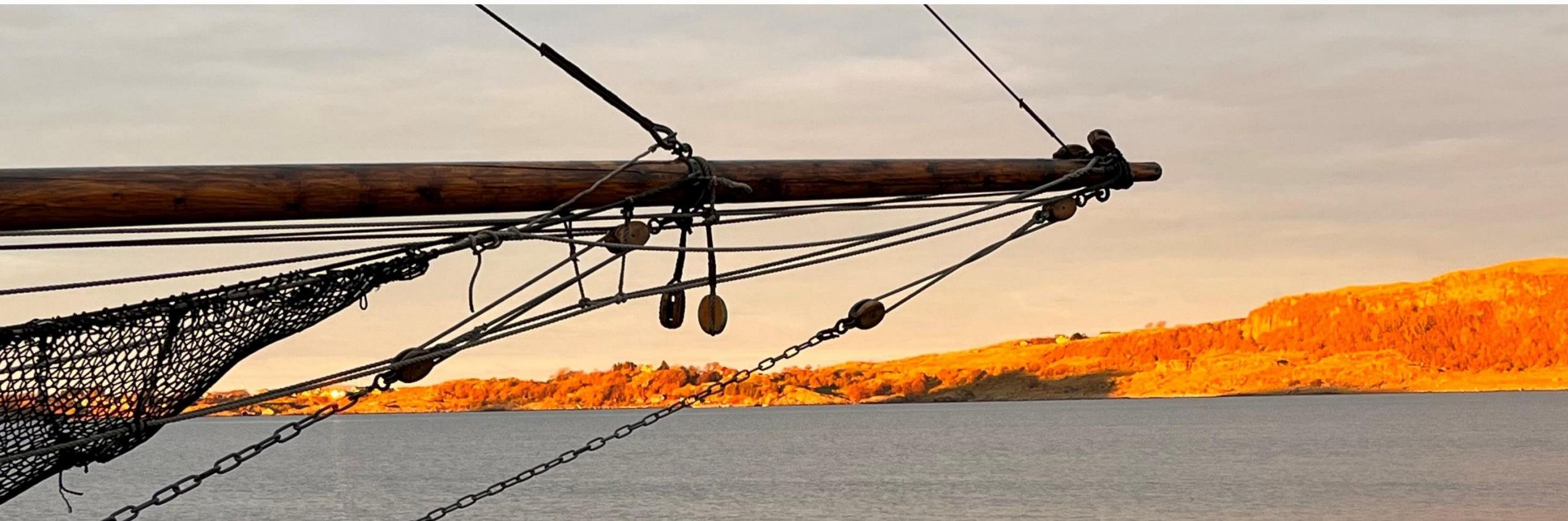


Kartverket

National report Norway

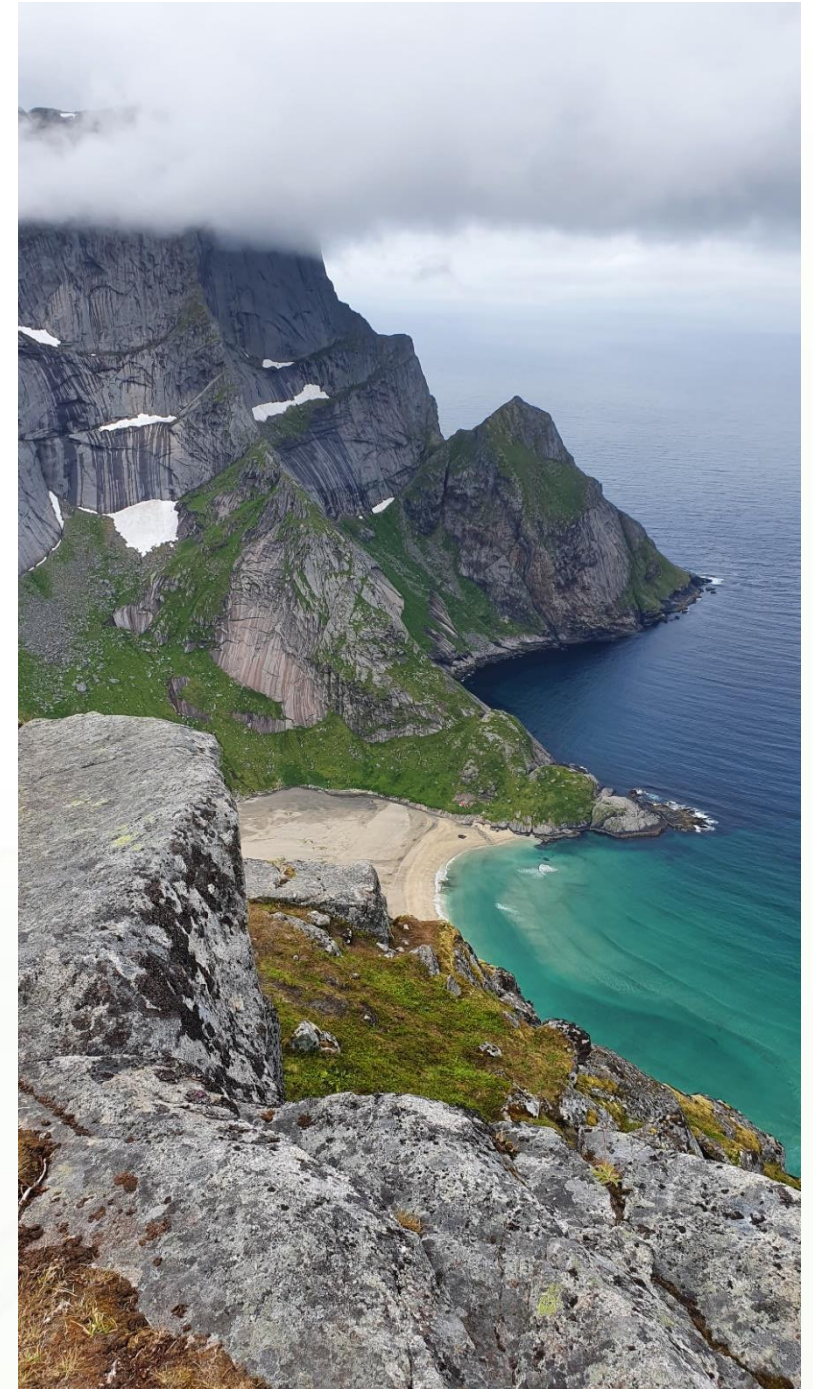
NHC66

21 + 22 March, Aalborg, Denmark



Highlights

- Norwegian Mapping Authority celebrates 250 years
- Marine Base Maps pilot project successfully completed
- Status S-100 implementation
- HYDRIS, our new production line in development
- Office location / constellation





Marine Base Maps for the Coastal Zone Norway

Is all about gathering detailed information and boosting the knowledge of the sea bed and marine coastal systems along Norway's coast - for a sustainable ocean economy.

Marine Grunnkart pilotprosjekt 2020-2022

Stavanger



Ålesund og Giske



Skjervøy og Kvænangen



Skjervøy pilotområde



Flyfoto, Skjervøy



Konsekvenser av å ikke ha tilstrekkelig datagrunnlag



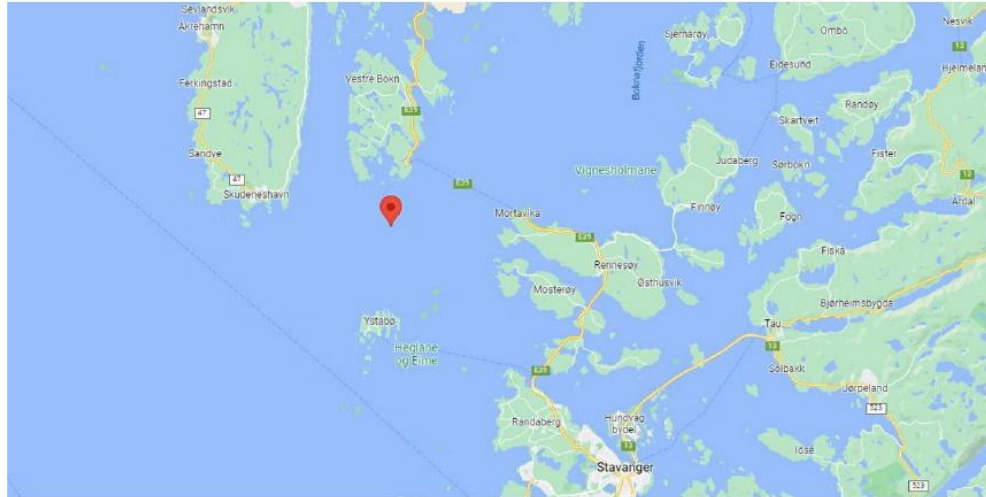
Det er disse blomkålkorallene som har skapt trøbbel for de tre oppdrettselskapene fra Austevoll. Foto: Erling Svensen

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Tapte rettssak om blomkålkoraller

De tre oppdrettselskapene Troland Lakseoppdrett, Austevoll Melaks og Langøylaks har tappt rettssaken der de ble nektet å drive oppdrett grunnet funn av blomkålkoraller.

Marine grunnkart i bruk



Plasseringen til Bremnes Seashore planlagte lokalitet Lyregrunnen, nord for Stavanger. Foto: Google Maps

Utredning sa ny oppdrettslokalitet ville ha «nærmest ubetydelig påvirkning» – så fant pilotprosjekt korallskog i nærheten

Sjøfjærbunn og korallskog ble ikke oppdaget da området rundt Bremnes Seashore sin nye lokalitet i Stavanger-området først ble kartlagt. Nå må det gjøres en større kartlegging.

27. september 2022 5:00 Oppdatert 27. september 2022 5:00

Av [Robert Nedrejord](#)

i Bergen

Arealplanlegging i Stavanger kommune

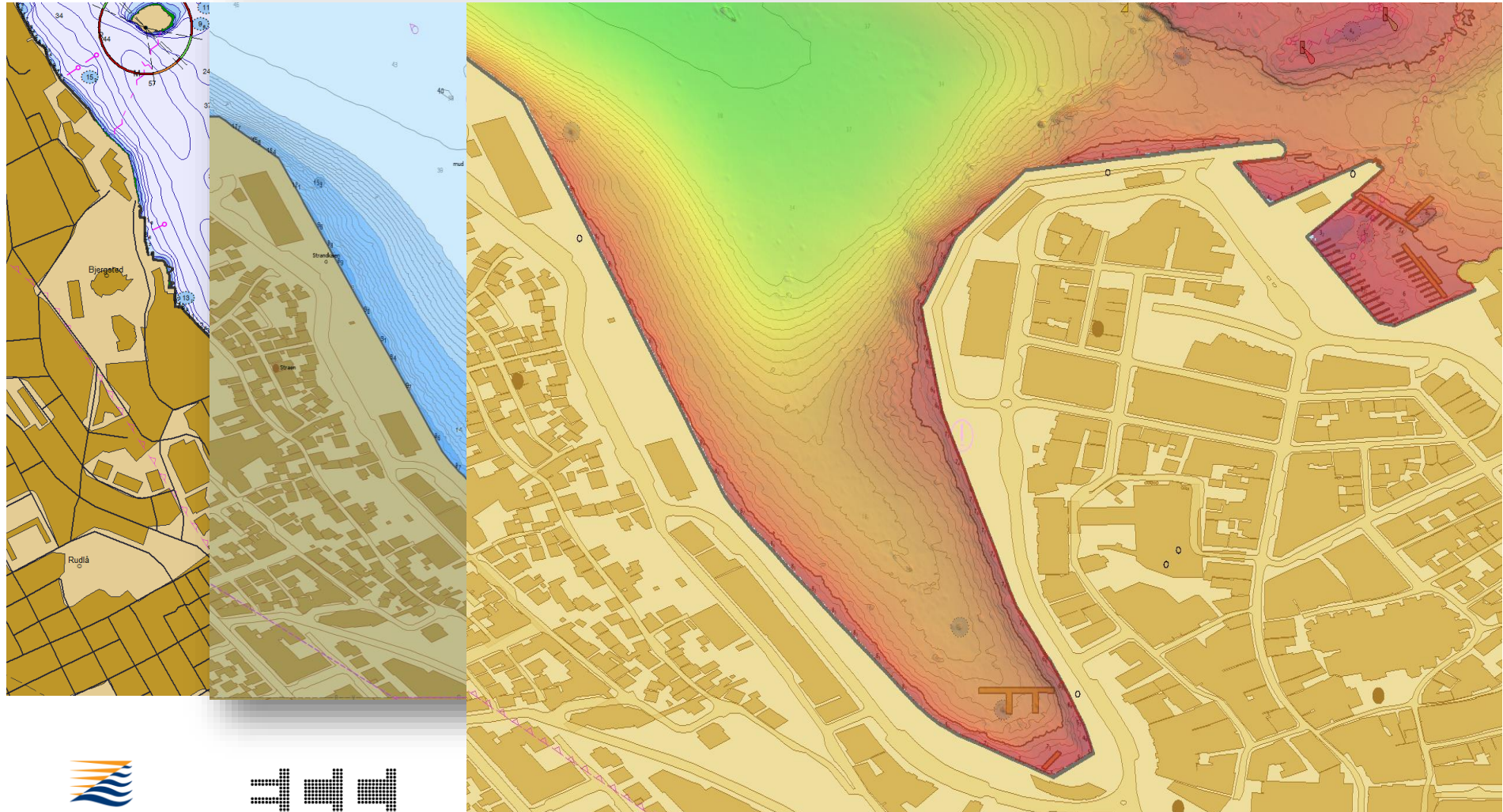
Gjennom tilgang til marine grunnkart har kommunen fått et bedre kunnskapsgrunnlag

Stavanger kommunes forslag til ny arealdel er over snittet solid og gjennomarbeidet mtp. sjøarealene

Fiskeridirektoratet



New digital nautical charts



S-102





Elevation model

Water level

Cadastre

Point cloud of port

Standardized port data

Vegetation

Detailed bathymetry

Data from the Norwegian Mapping Authority / the Norwegian Hydrographic Office



Kartverket

HYDRIS

(Hydrographic Information System)

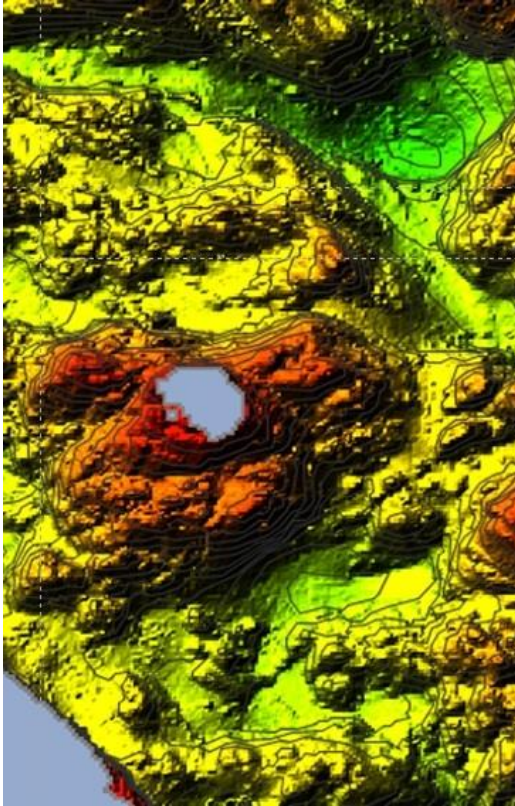


HYDRIS will give us a technological boost and make reliable marine geodata easily accessible in a user-friendly and efficient way.

The new solution will be based on a modern technological platform that supports:

- FAIR principles emphasizing machine-actionability
- support a more efficient nautical production
- multiple/various digitization and data sharing solutions
- fast data access and effective bathymetric production (short processing time / increased automation)
- layered services and functional structure (allowing algorithmic, AI/ML, production etc. processes to run on top off the data)
- an integrated metadata management
- management of complete and original data (no or minimum generalization required)
- integrated product and data sharing solutions (machine-to-machine, APIs, etc.).

New data management system – What's new?



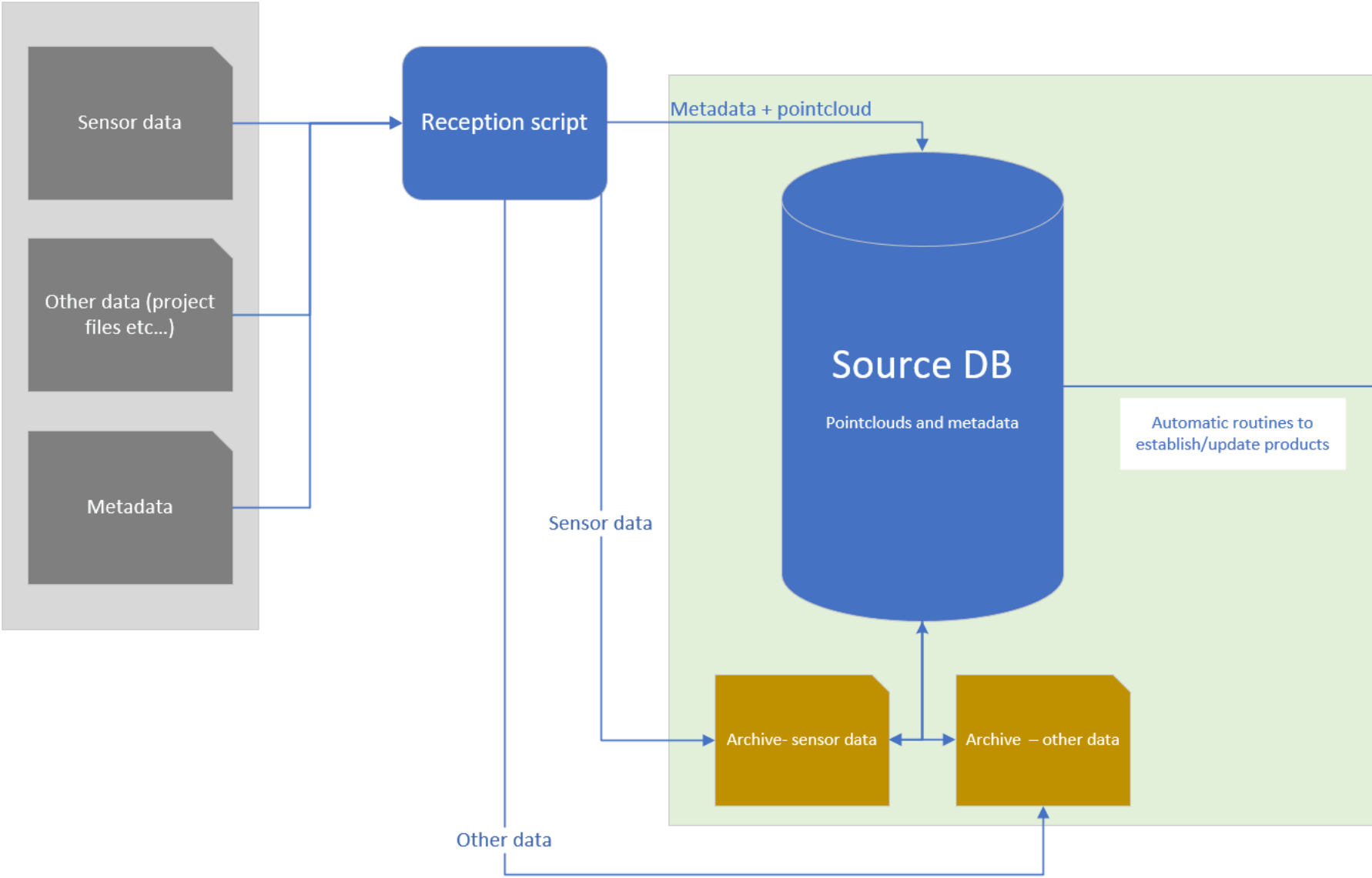
Hybas (old system):

- File based system (Linux)
- Archive (file server)
- Outdated access solution

«Hydris» (new system):

- Database («Kilden») for point clouds and new metadata management
- System is rigged to be able to automate processes; Python scripting, Process designer, Automation hub
- New and supported system (commercial off-the-shelf (COTS))
- Improved security
- New and improved archive (file server)
- Modern user-friendly system for access

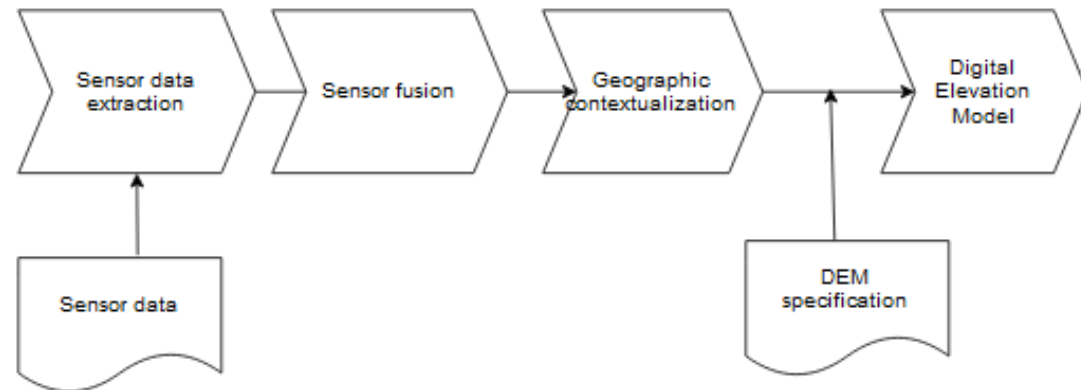
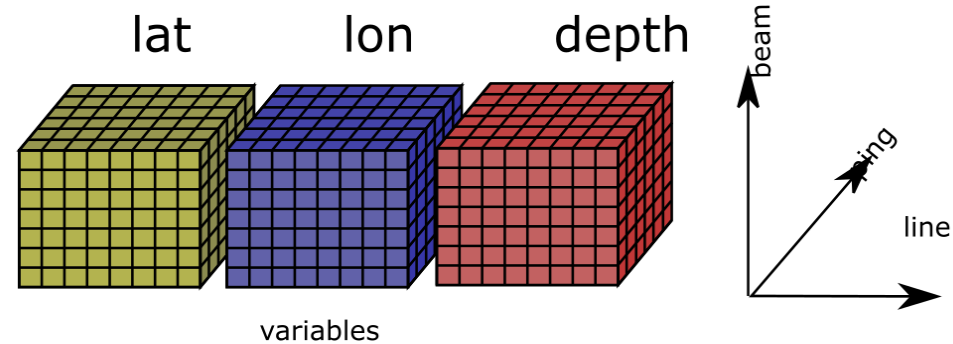
New data management solution



Creating Analysis Ready Bathymetry (ARB)

Data in n-dimensional space is organised and formatted in common georeferenced systems for further exploration.

- Automated sensor data fusion and pipeline execution
- Data-as-a-product thinking
- Ease of use – standardised API
- Based on open source software components
- Cloud ready
- Support current and future workflows



Questions?

