

An aerial photograph of a coastal fjord in Norway, overlaid with a terrain model. The terrain model is color-coded by depth, with lighter shades of blue and cyan representing shallower waters and darker shades of blue representing deeper waters. The fjord is surrounded by green hills and mountains. A bridge spans across the water, and a boat is visible in the foreground. The text "Marine Basemaps in Coastal Norway" is overlaid in white.

# Marine Basemaps in Coastal Norway



To avoid developing the coastal area in the blind we are dependent on sound knowledge - marine data

# Why Marine Basemaps

- Background:

NHS requested to prepare a proposal for a pilot project for marine base maps along the Norwegian coast (Tildelingsbrev 2017)

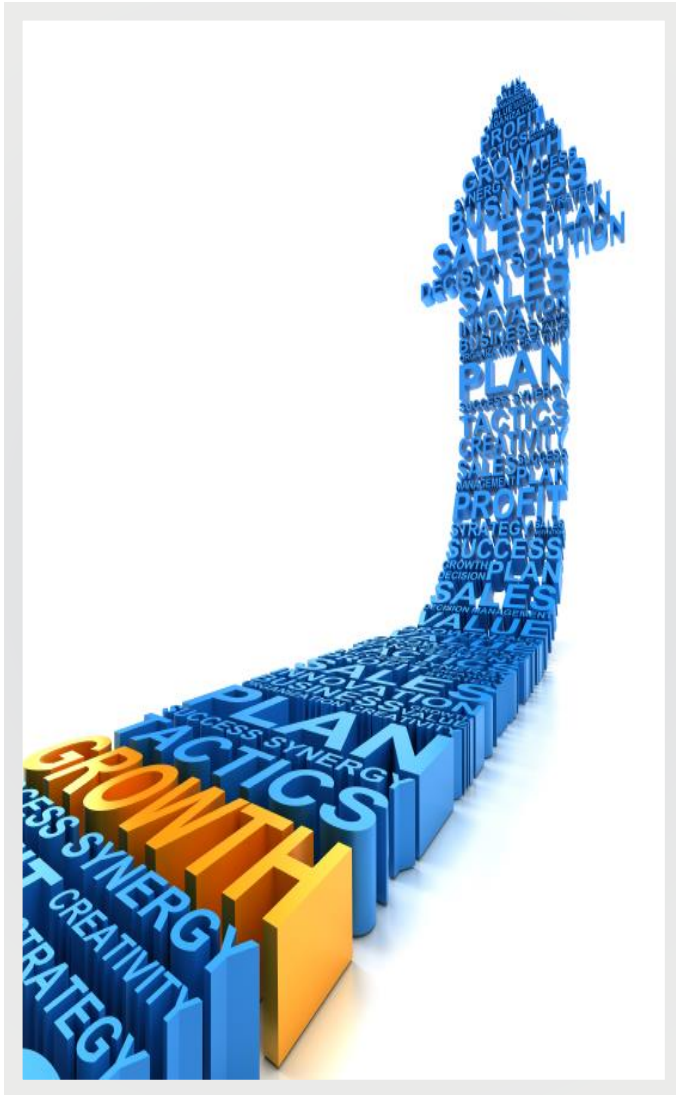
- Pre-MAGIN:

Feasibility project and cooperation between the NHS, the Geological Survey of Norway, the Institute of Marine Research and the Norwegian Institute of Water Research. NHS as Project leader

- Goals:

- Collect and share data and knowledge of the seabed along the coast
- Produce standardized datasets and services
- Main product groups: terrain model, seabed conditions, oceanography, environmental conditions and marine habitats
- Free distribution via national portal: Geonorge

# Potential benefits



- Better coastal zone management
- Biological diversity and bio-resources
- Environment protection
- Optimised and sustainable use of the coastal zone (conflict reduction)
- 5-times increase in aquaculture and fisheries export by 2050
- Expansion of renewable energy sources
- Better crisis preparedness
- Marine resources mining



Testing new technology at Runde in Sunnmøre



June 2017. Credit: Arild Hareide/Runde environment centre

New technology for data collection will be tested / quicker data collection and faster products/services delivery

# Pilot Area: New Stavanger Municipality

The pilot project will show the potential for optimizing seafood production and will provide a basis for identifying and reducing areas with conflicts of interest



New Stavanger Municipality- Finnøy, Rennesøy og Stavanger. Photo of Kyrkjøy in Finnøy kommune. Credit: Jon G. Ingemundsen, Stavanger Aftenblad

# Pilot Area: Nordre Sunnmøre

The pilot project will map new areas - giving the municipalities the basis they need to create new jobs along the coast



The world's first operational wave power plant located in Herøy municipality was officially opened in September 2017. Credit:Waves4Power AB, Sweden

# Pilot Area: Troms - Skjervøy/Kvænangen

The pilot project will acquire new knowledge about the coastal area and the area's potential to optimise fisheries and aquaculture farming





# Value Creation

Conservative estimates for growth in existing farm licenses in the pilot areas provide a gross present value of 236.5 million

Net value: kr 156 million priced effect in the aquaculture industry (priced: Productivity and sales growth in salmon and trout farming)

Not priced: growth in pilot areas will provide 18 man-years in the aquaculture industry. The ripple effects in secondary and tertiary industries are estimated to provide another 44 man-years.



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