Healthy and sustainable oceans: an update on NTNU Oceans programmes, projects and partnerships

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Strategic Research Areas 2014–2023

Through interdisciplinary cooperation, NTNU's strategic research areas NTNU Energy, NTNU Health, NTNU Oceans and NTNU Sustainability address complex challenges of great importance for society.
NTNU
Knowledge for a better world

Rockstrøm and Sukhdev,
Stockholm Resilience Centre,
Stockholm University 2014
NTNU Oceans
Research based education in the Ocean Space

AREAS
- Maritime transport
- Into the deep ocean
- Polar science and technology
- Sustainable seafood and marine bioresources
- Marine minerals and renewable energy
- Marine environment, society, and sustainability

WHAT WE DO
- Coordinate interdisciplinary activities in research, education and innovation
- Develop knowledge requirements in shipping, the oceans, Arctic exploration, the seafood production, marine resources and energy, the marine environment and society
Cross-sector learning
CHALLENGE YOURSELF
‘The high-carbon-consuming world must act: behavioral, policy changes, changes in identity and worldview’

Julia Leyda, Associate Professor of Film Studies
Department of Art and Media Studies Faculty of Humanities
Climate fiction, environmental humanities, and Anthropocene screen cultures
"Missions require a shift from a market-fixing framework to a market-shaping framework, redefining the meaning of public value. Public value represents not just what citizens demand today, but what they may need or desire in the future"

Mariana Mazzucato

The main objectives of this cluster are to **fight climate change**, improve the competitiveness of the energy and transport industry as well as the quality of the services that these sectors bring to society.

**HORIZON EUROPE CLUSTER 5: CLIMATE, ENERGY AND MOBILITY**
Aquaculture Management

Interaction with the Environment

How aquaculture affects the environment?

How the environment can affect aquaculture?
New €300 million investment to help steer green shipping - The Dutch bank ING and the European Investment Bank (EIB) have announced a serious boost towards greening the shipping industry. From Climateaction.org 20 February 2018

‘The Ocean is the 7th largest economy in the World’ World Wildlife Fund – From forbes.com

Investors are attracted by the growth predictions of the blue economy: Globally, the blue economy, including tourism, fisheries, marine renewable energy and biotechnology, is predicted to grow at double the rate of the rest of the economy by 2030. From Forbes.com, by James Ellsmoor Jan 26, 2019

“There remains an appetite for investment in shipping from both new and existing players. That is likely to continue in 2019 so long as shipping lives up to its ESG responsibilities.” Richard Greiner from Moore Stephens - SeaTrade Maritime News Jan 2019

Green investing in marine activities is ‘pretty exciting’ ‘If you calculate ... the oceans in an economic term, it is the seventh-largest GDP in the world ... It includes sustainable fisheries, it includes tourism that’s based on (the) ocean’ said Marisa Drew, CEO of the impact advisory and finance department at Credit Suisse - 27 March 2019 cnbc.com
GROWTH OF GLOBAL SUSTAINABLE INVESTING ASSETS: At the start of 2018, global sustainable investment reached $30.7 trillion in the five major markets, a 34 percent increase in two years. Global Sustainable Investment Alliance (GSIA)
Oceans at NTNU
Norwegian University of Science and Technology

Environmental Humanities & the Arts research for Climate Change Mitigation

Sustainable Blue Economy Research for the development of Aquaculture

Research the marine environment and the effects of pollution (plastic & other)

Sustainable Coastal Communities Research for Sustainable Fisheries