Harvesting and production of Sea Urchin

3th of October, Senior Advisor Inger Oline Røsvik
Department for Marine Bio resources and Environmental Research
“A seminar investigating why Norway does not have an established sea urchin fishery - and what the economic and associated kelp ecosystem restoration benefits would be of establishing such a fishery”

The Research Council
Prioritized on
- Kelp and sea urchin
- Climate changes

Traditionally
- Little focus on fishery and aquaculture
Relevant programs

- **MARINFORSK**
  - The research program on Marine Resources and the Environment
    - *Ocean and coastal areas, harvesting*
    - 2017 - ca. 140 MNOK

- **HAVBRUK (Aquaculture)**
  - *Production/ farming*
  - 2017 - ca. 194 MNOK

- March 2017, The whole seafood value chain
Large-scale Program on Aquaculture Research – HAVBRUK2

- Economic, social, and environmental sustainability
  - Healthy fish
  - Production biology
  - Production technology
  - New species (Low trophic-level)

- Impacts of climate change
- Arctic and northern areas
- Recruitment
- Internationalisation

- Societal perspectives, governance and markets
  - Opportunities, new tools
  - Experimental calls for proposals

- Fish welfare
  - Ethical production
  - Safe and healthy seafood
HAVBRUK2 – program (2016)

Aquatic biomass production and new aquaculture species:

- Substantial increased focus on production of low trophic species
- All aspects of biology and technology related to cultivation and processing of cultivated organisms
**Fundamental research** (Researcher projects)

RCN has a responsibility to fund long-term research to build competence and to ensure recruitment

- Evaluation HAVBRUK - 2013
  - Scientists, authorities and industry need and want for fundamental research
- Normally most of the themes are limited into concrete priorities
- This years call for new species (Low trophic-level)
  - *Production and utilization of low trophic-level marine species with potential as raw ingredients for fish feed*
Innovation in the industry

- Specific calls for Innovation projects (IPN)
- Relieve risk for piloting and demonstration for the supplier industry
- Deadline 11th of October 2017
  - NOK 20 million Innovation Projects for the Industrial Sector in the field of aquaculture - The whole aquaculture value chain
  - NOK 100 million Innovation Projects for the Industrial Sector on ocean technology (6 programs)
Marine resources and the environment (MARINFORSK)

Thematic priority areas:
- Marine ecosystems
- Pollution and other effects on ecosystems
- Sustainable harvesting and value creation
- Management and societal perspectives
MARINFORSK

- Only Fundamental research
  - but from 2018 – included “marin BIONÆR”

Innovation project – deadline 11th of October

- Sea food quality, processing and market
- NOK 100 million Innovation Projects for the Industrial Sector on ocean technology