



Possibilities and pitfalls in the development of a sea urchin industry in Norway

“Why Norway does not have an established sea urchin fishery and what are the economic and associated kelp ecosystem restoration benefits of establishing such a fishery”

**ECOURCHIN / URCHIN stakeholder seminar
Oslo, Norway, Oct 3rd 2017**







Agenda

Session One: Current projects & Research and examples of successful urchin industries

09:00- 09:10 Welcome (Phil James and Wenting Chen)

09:10- 09:20 Introduction

09:20- 09:50 ECOURCHIN (MIKON): sustainable development of urchin industry and ecosystem benefits from kelp recovery – a win-win situation for northern community

Wenting Chen, Researcher, NIVA

09:50-10:20 URCHIN project (NPA): Utilisation of the urchin resource in the Northern Periphery

Phil James, Researcher, NOFIMA

10:20-10:30 Keynote speaker

Inger Oline Røsvik, Norwegian Research Council

10:30- 11:00 *Coffee break*

11:00- 11:40 Successful urchin industries in similar latitudes: Iceland and Canada

Gudrun Thorarinsdottir, Marine and Freshwater Research Institute, Iceland

Janet Lochead, Fisheries and Oceans Canada, Canada

11:40 – 11:55 Kelp and ecosystem recovery

Hartvig Christie, Senior researcher, NIVA

11:55 – 12:05 Projection of future kelp forest in the North

Hege Gundersen, Researcher, NIVA

12:05 – 12:20 Kelp recovery and cod fishery

Claire Armstrong /Godwin kofi Vondolia, Professor (Post doc),

Artic University of Norway

12:20 -12:30 Discussion of morning presentations

12:30-13:30 *Lunch*

Agenda

Session Two: Developing a sea urchin industry in Norway

13:30-13:45 Management and governance issue, regulation and policy

Aslak Forus, Mattilsyn representative (Norway)

13:45-14:05 Sea urchin roe enhancement

Brian Takeda, URCHINOMICS

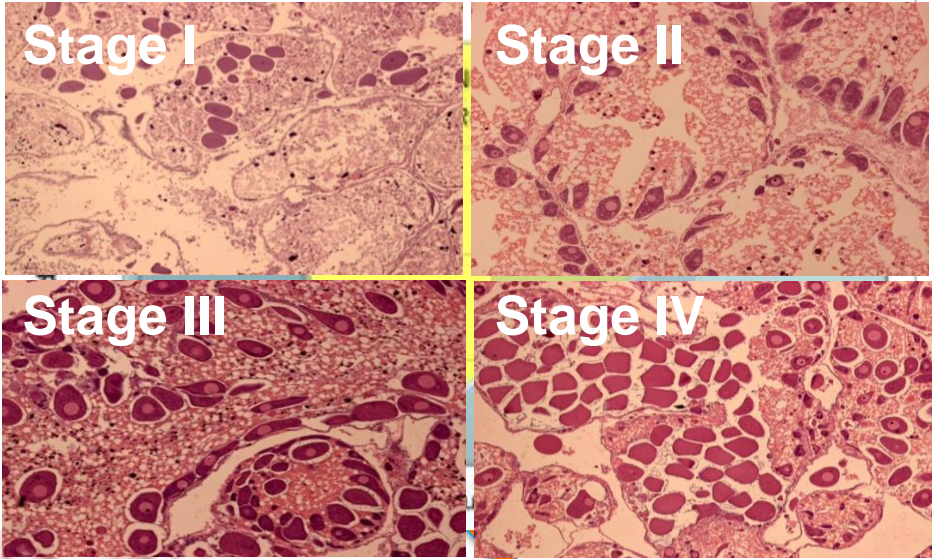
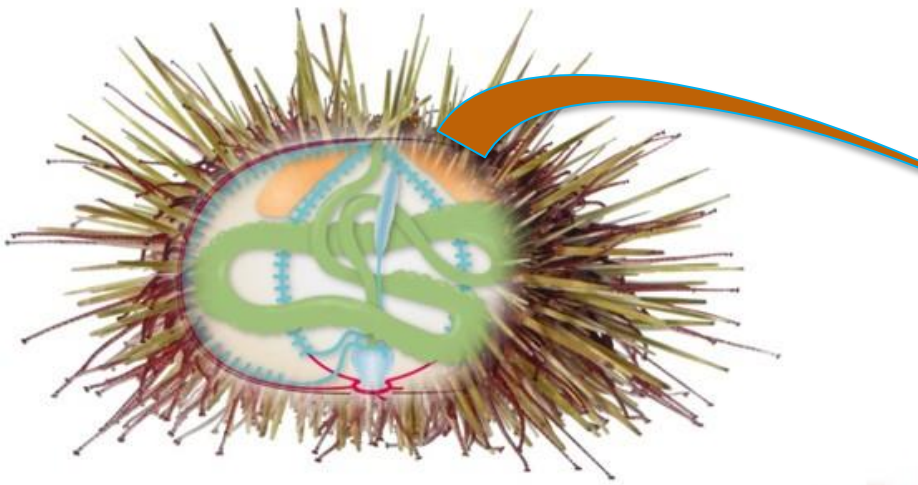
14:05- 14:15 Introduction to panel discussion:

Logistical bottlenecks to a sea urchin industry

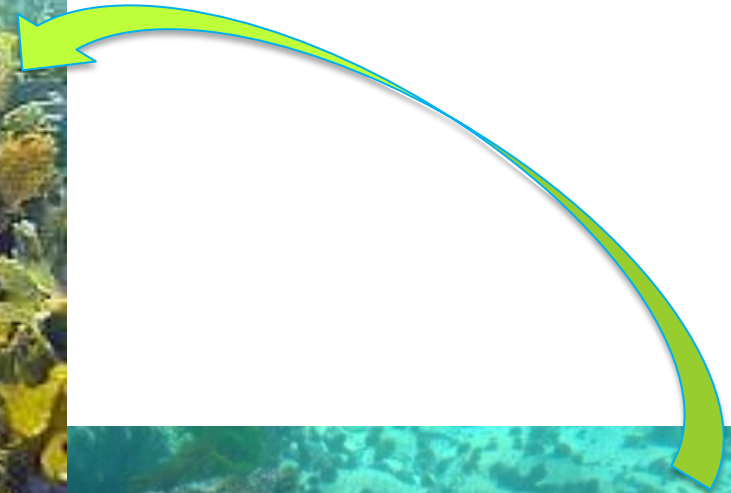
14:15-16:00 PANEL DISCUSSION - How to move a sea urchin industry forward in Norway –
Creating an action plan!

16:00-17:00 Drinks and nibbles





Reforestation



Deforestation



Vulkanfisk AS, Mathallen, Oslo: Sat 30.9.2017

VULKANFISK
Krabbe
TILBUD
Kr 129,-/kg

VULKANFISK
Kråkeboller
Fra Island
Kr 39.- / stk



Questions?

- 1. What do you see as the major bottlenecks to the development of an urchin industry in Norway?**
- 2. In your opinion how can these bottlenecks be overcome?**
- 3. How can the benefits of ecosystem restoration be incorporated into an urchin industry in Norway?**

