

URCHIN Project

‘Utilising the Arctic sea urchin resource’

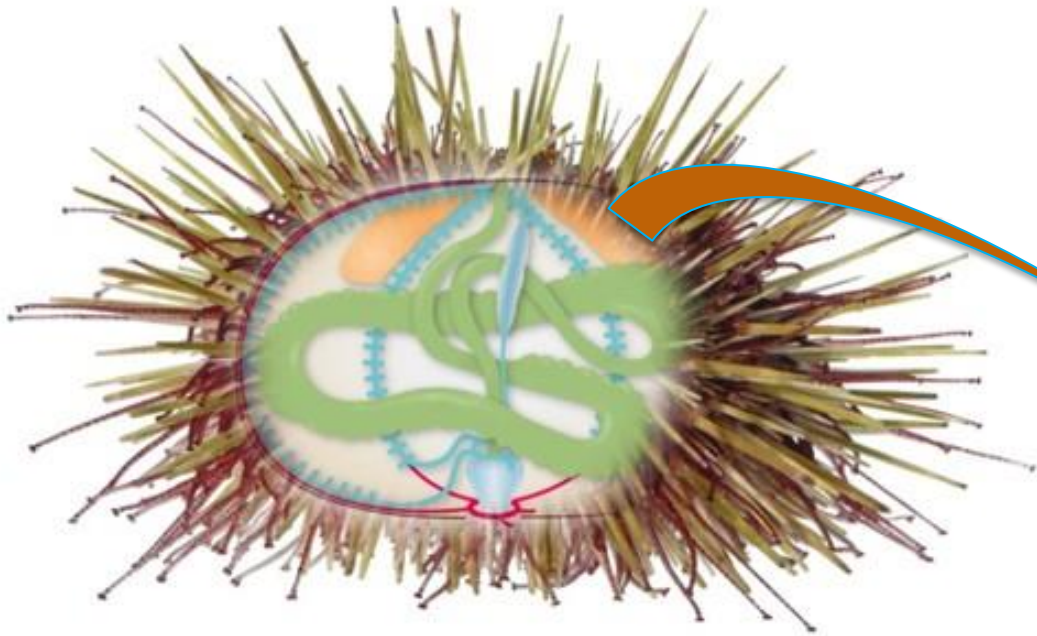
NPA Annual Conference
Galway, Ireland

Philip James, Senior Scientist,
Nofima, Tromsø, Norway



HAFRANNSÓKNASTOFNUN
Rannsókn- og ráðgjafarstofnun hafs og vatna
MARINE & FRESHWATER RESEARCH INSTITUTE

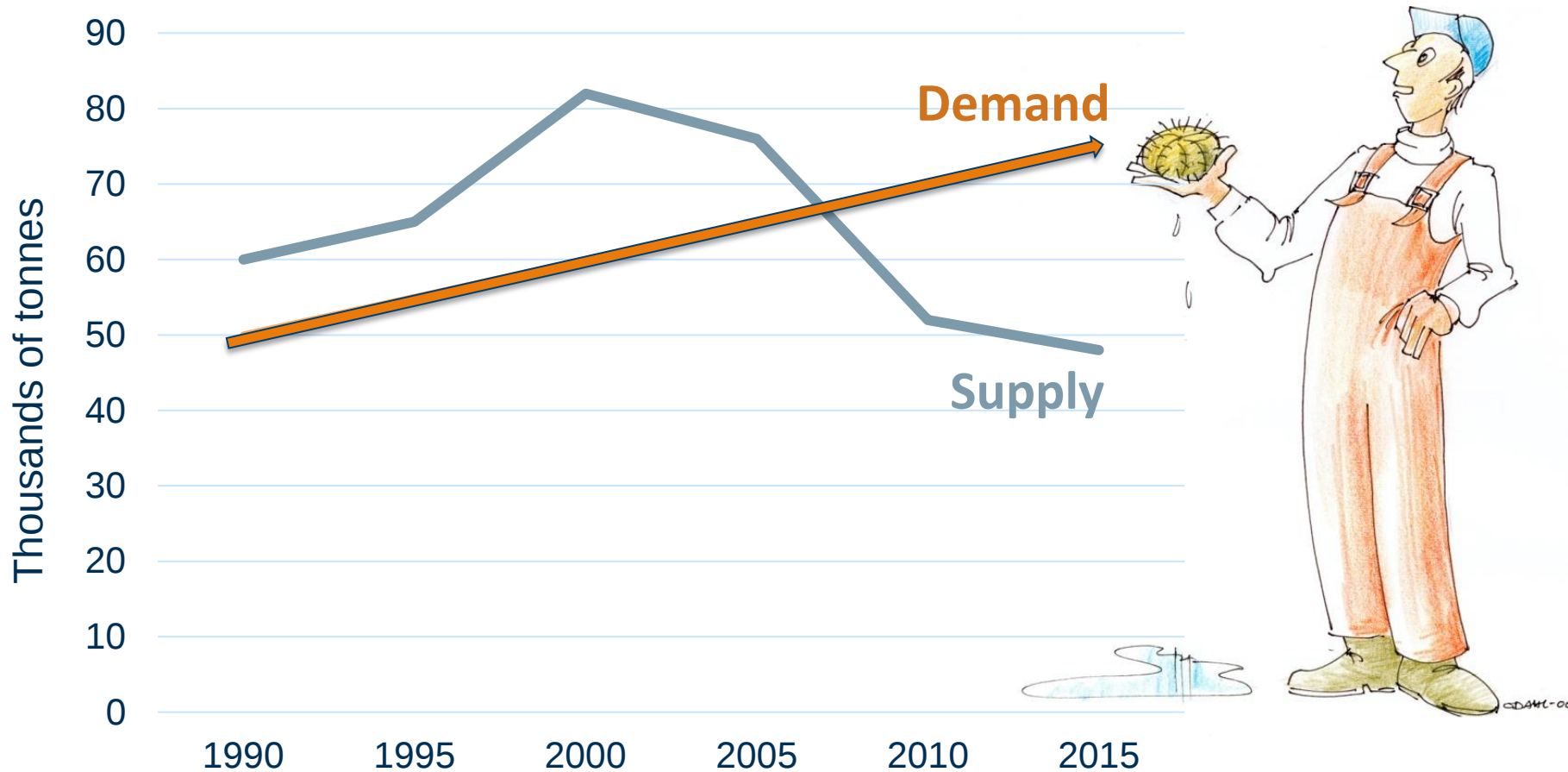




Sea urchins?



World sea urchin supply and demand

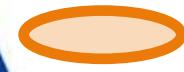


90% consumed in Japan, but where do they come from?



 Russia (13.8%)

 Canada (4.8%)

 NPA (0.003%)

“Why are sea urchins not utilised in the NPA?”

“How can they be utilised?”





YESTERDAY in the NPA



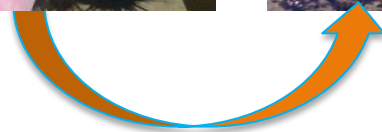


TODAY IN ICELAND





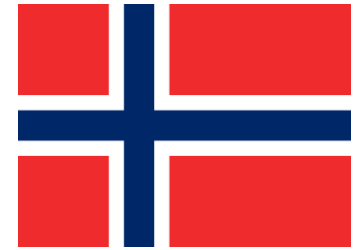
TODAY IN IRELAND



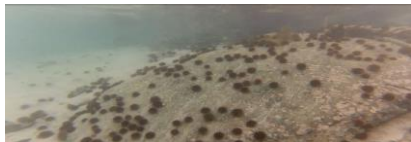


TODAY IN GREENLAND





TODAY IN NORWAY



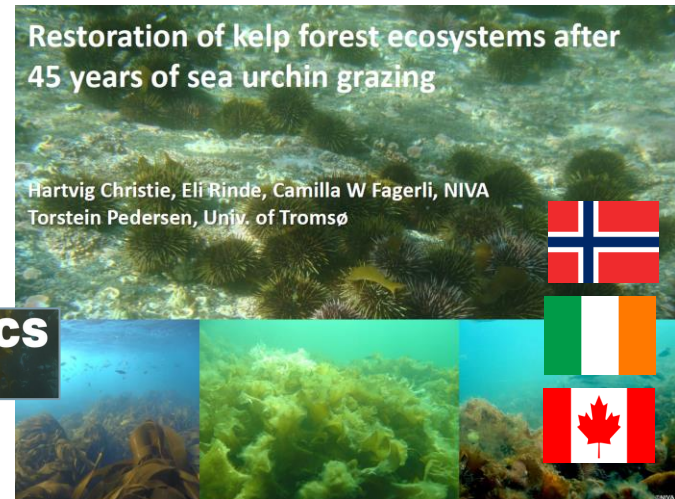
NIVA
Norsk institutt for vannforskning

ECOURCHIN
Harvest urchins-restore kelp forest

URCHINOMICS
Business innovation meets marine conservation

Restoration of kelp forest ecosystems after 45 years of sea urchin grazing

Hartvig Christie, Eli Rinde, Camilla W Fagerli, NIVA
Torstein Pedersen, Univ. of Tromsø



Canada

Ekuanitshit First Nations Consortium



Sea urchin roe enhancement

Kelp restoration



**Platform for
establishing/expanding
sea urchin fisheries**

New market
opportunities

TOMORROW in the NPA

Fisheries
Management Frameworks
Implemented

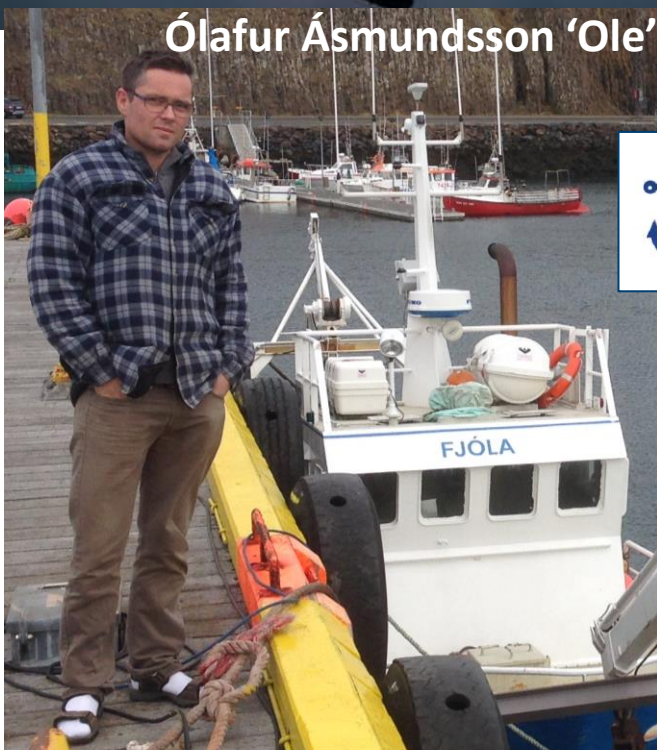
NPA Sea Urchin Network



IMPACT



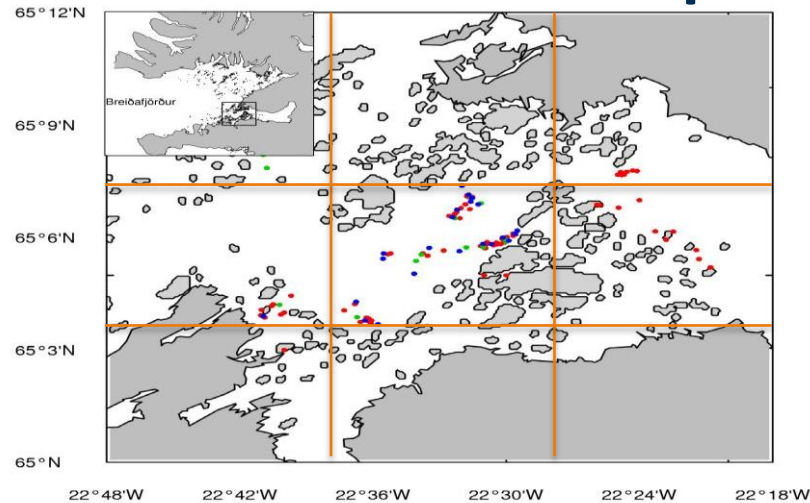
Stykkishólmur, Iceland



Ólafur Ásmundsson 'Ole'



Icelandic Sea Urchin Fisheries Management Plan Implemented



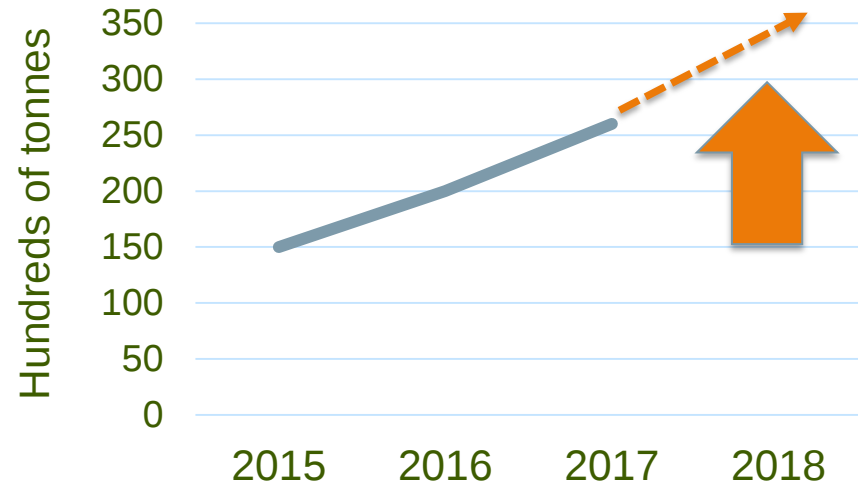
**New products,
customers & markets**



2015 - 2017



Sea urchin landings; Thorisholmi



Staff



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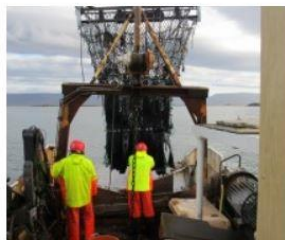


News

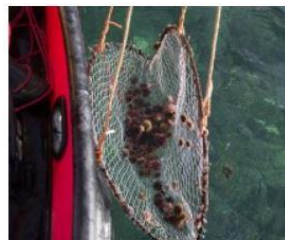


Six Month Newsletter (October 2015)

Six Month Project Newsletter



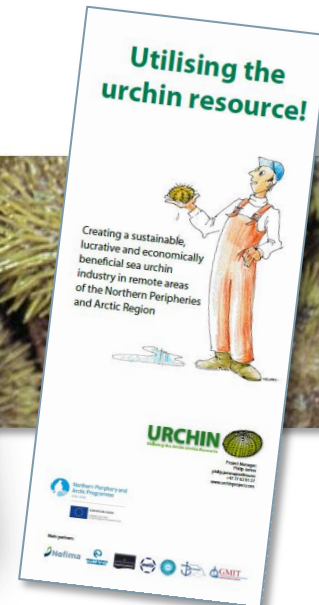
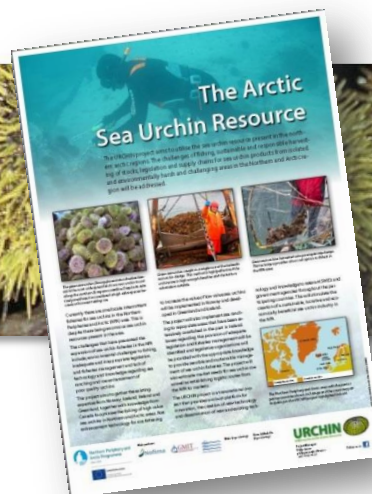
Population monitoring for Government Regulation and for fishing efficiency in Iceland



Development and testing of passive trapping technology for the Norwegian fishery



Start-up meeting in Tromsø



<http://urchinproject.com>



Thanks from the URCHIN team!