



Norges miljø- og  
biovitenskapelige  
universitet

# Ett hav - en helse

Trygve T. Poppe  
NMBU, Veterinærhøgskolen



Villaksen i nord  
- verdiskaper og identitetsbygger for levende elver og lokalsamfunn.  
Alta 9-10 februar 2016



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# «Verdens nordligste laksesmolt»







Kilde: SRBO Murmansk regional station for Animal diseases control

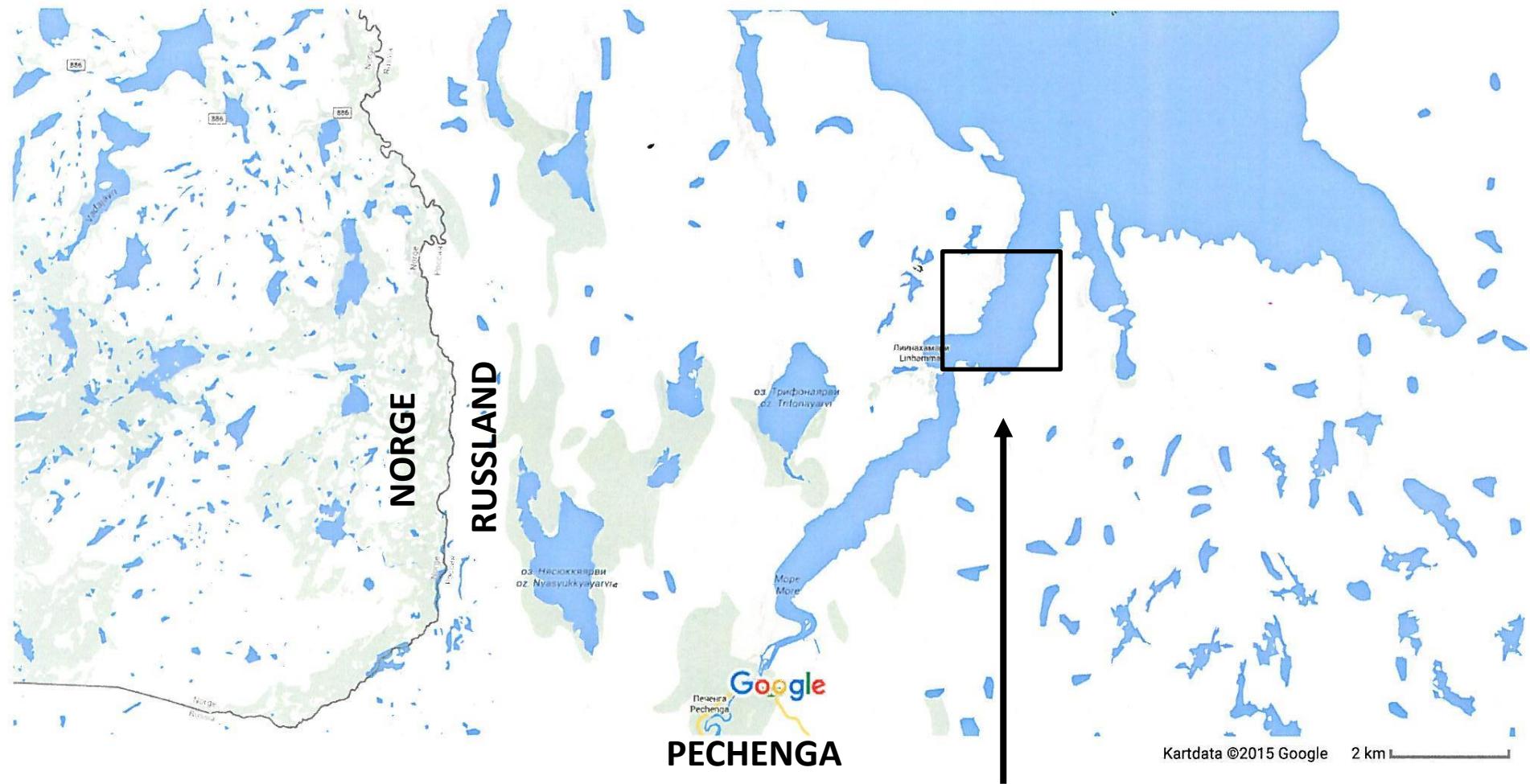
# Ulcerativ Dermal Nekrose (UDN) (?) på vill laks i elver på Kola

- Men var det noe mere?



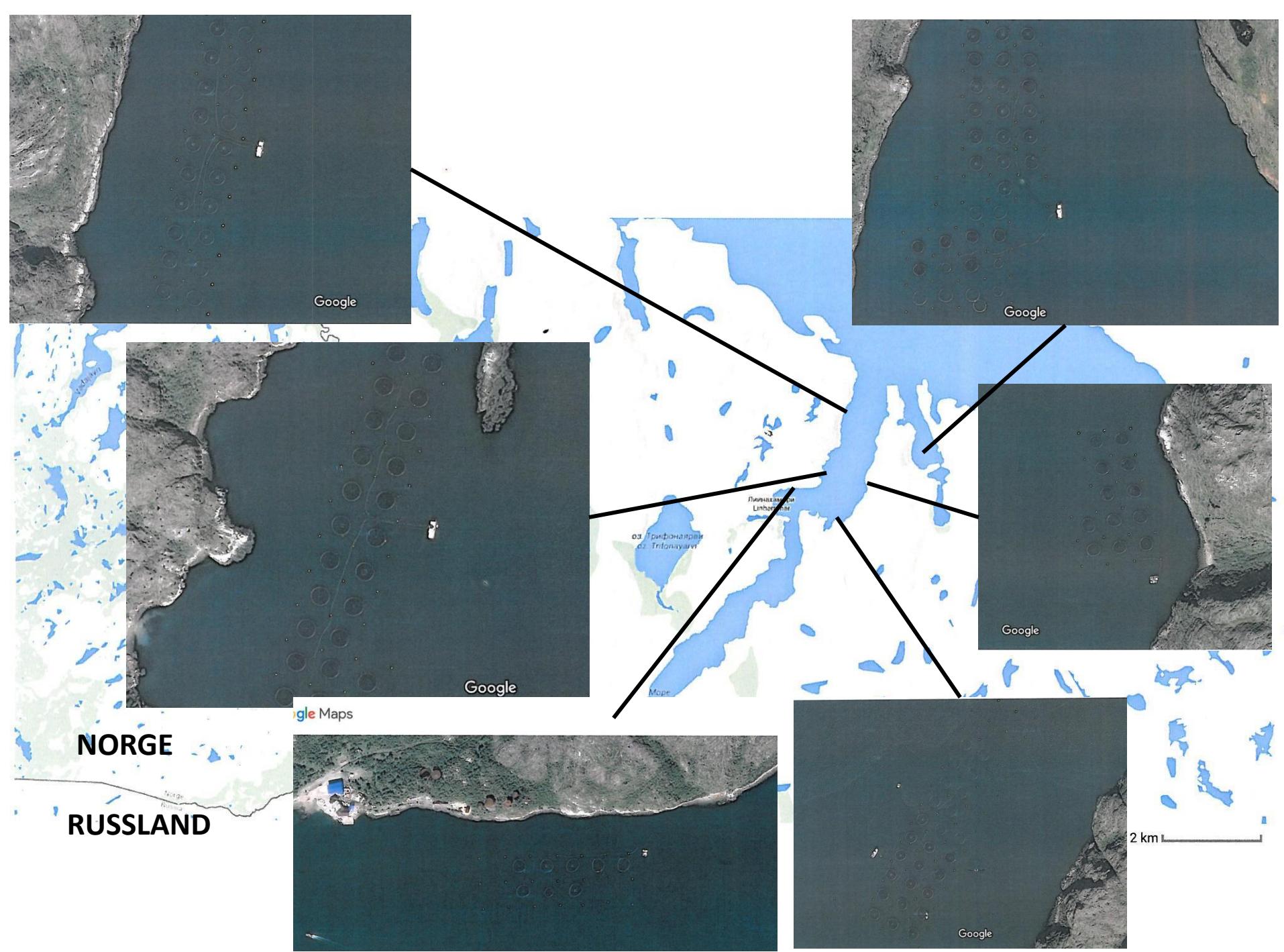
Kilde: SRBO Murmansk regional station for Animal diseases control

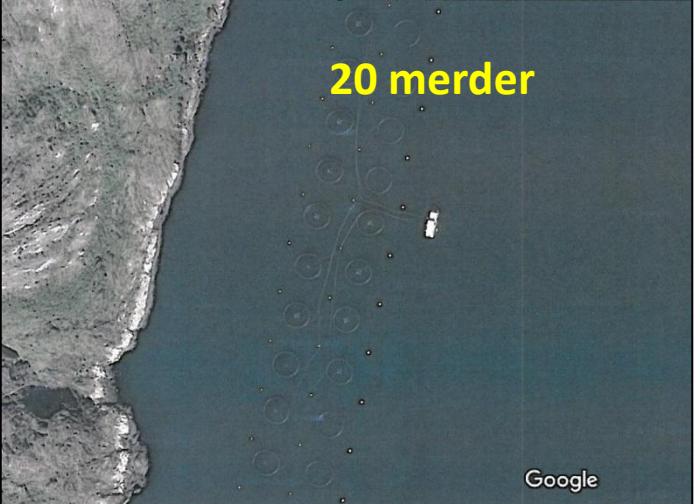




Kilde: The Barents Observer







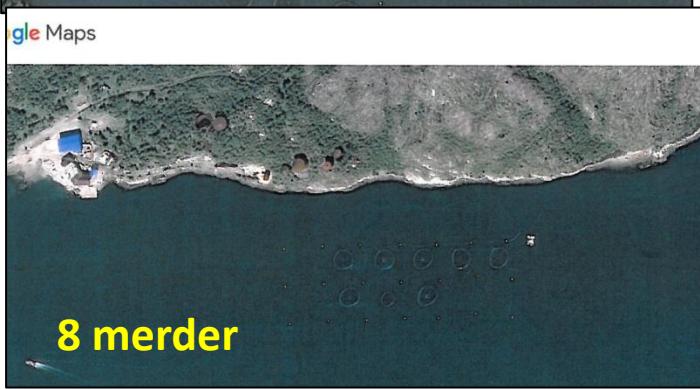
20 merder

Google



24 merder

Google

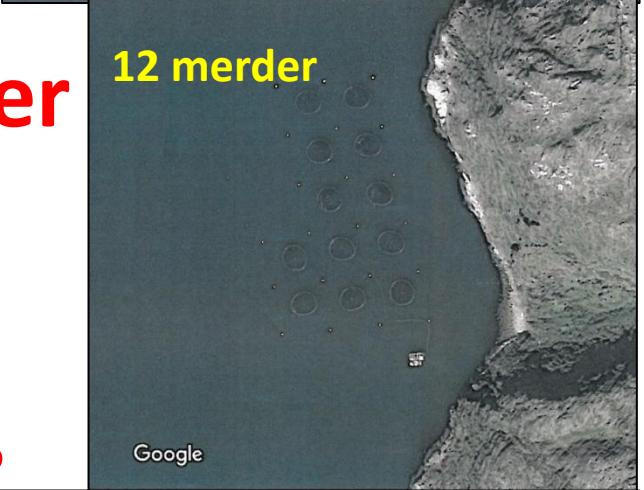


8 merder



34 merder

Google

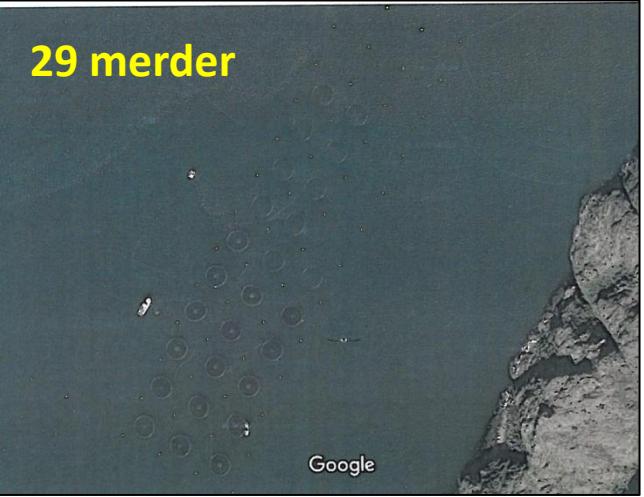


12 merder

Google

Ca. 127 merder

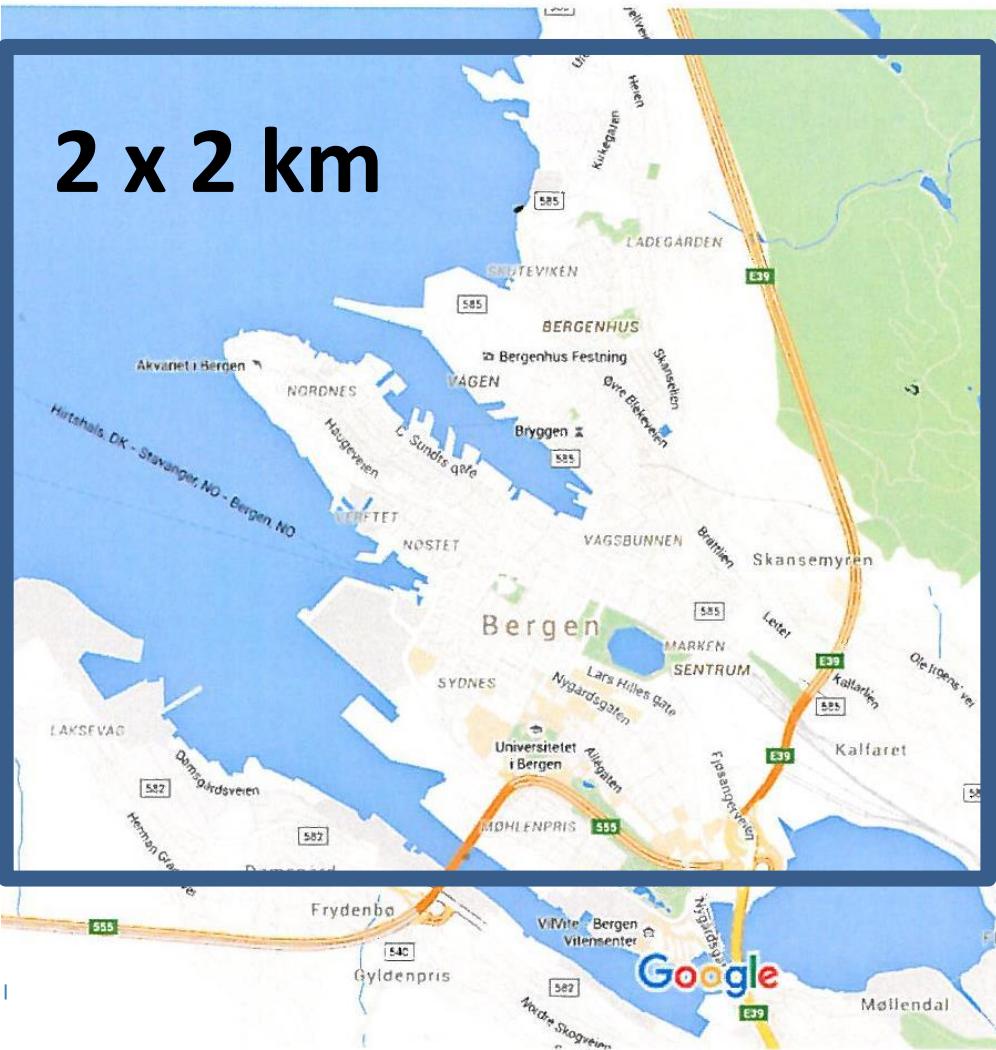
Ca. 8 mill laks



29 merder

Google

2 x 2 km



# Bergen havn



Kartdata ©2015 Google

500 m



Rullebanen i Alta

Kilde: The Barents Observer



## Råtten oppdrettslaks i åpne deponier

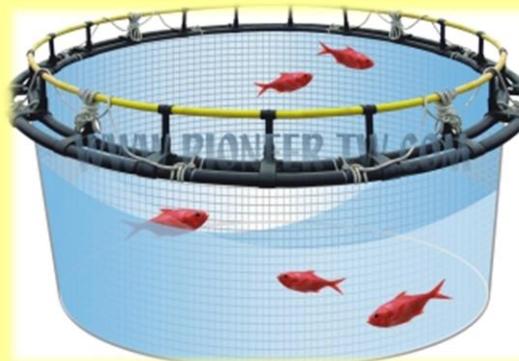
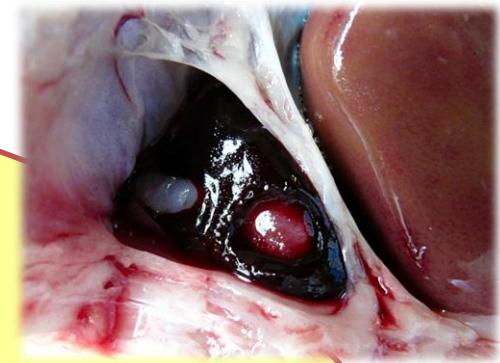
### SYKDOMMER PÅVIST

IPN	Infeksiøs pankreasnekrose
HSMB	Hjerte- og skjelettmuskelbetennelse
PD	Pancreas Disease
CMS	Kardiomyopatisyndrom
ILA	Infeksiøs lakseanemi
	<i>Parvicapsula pseudobranchicola</i>
	Lakselus <i>Lepeophtheirus salmonis</i>
	<i>Tenacibaculum</i> -infeksjoner

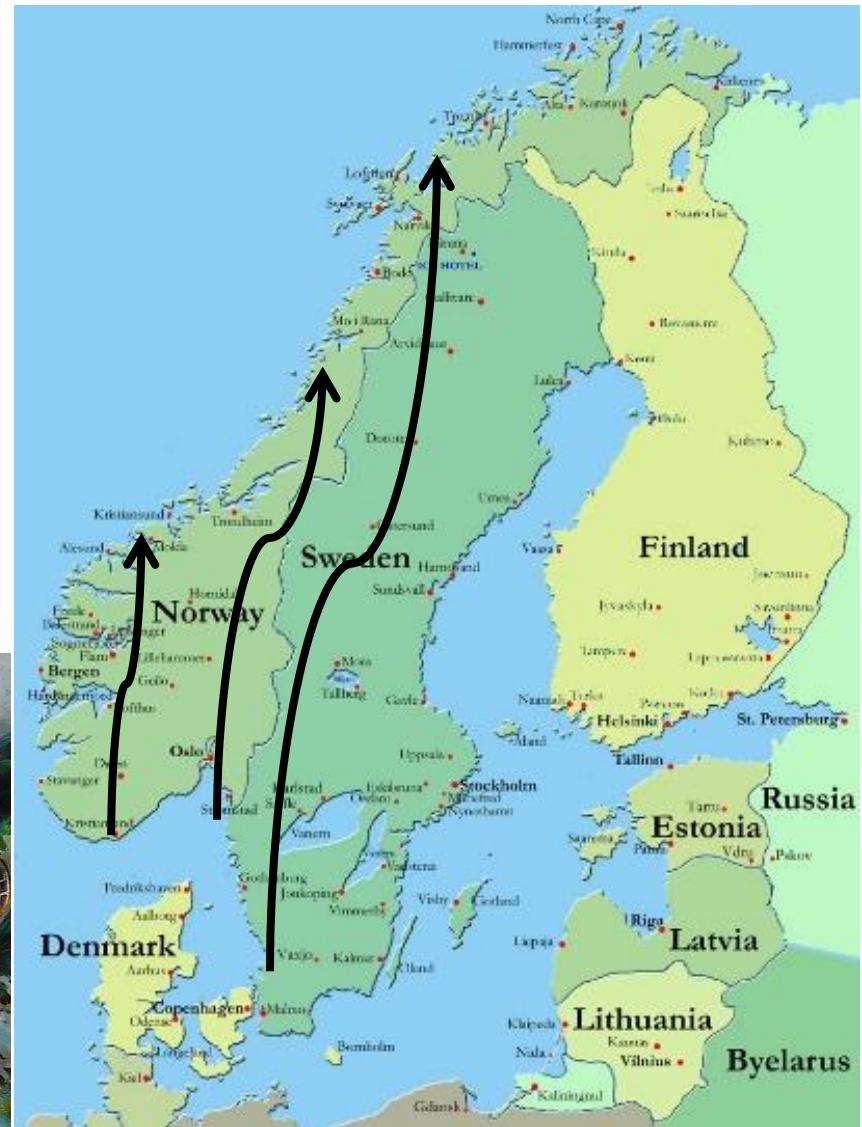
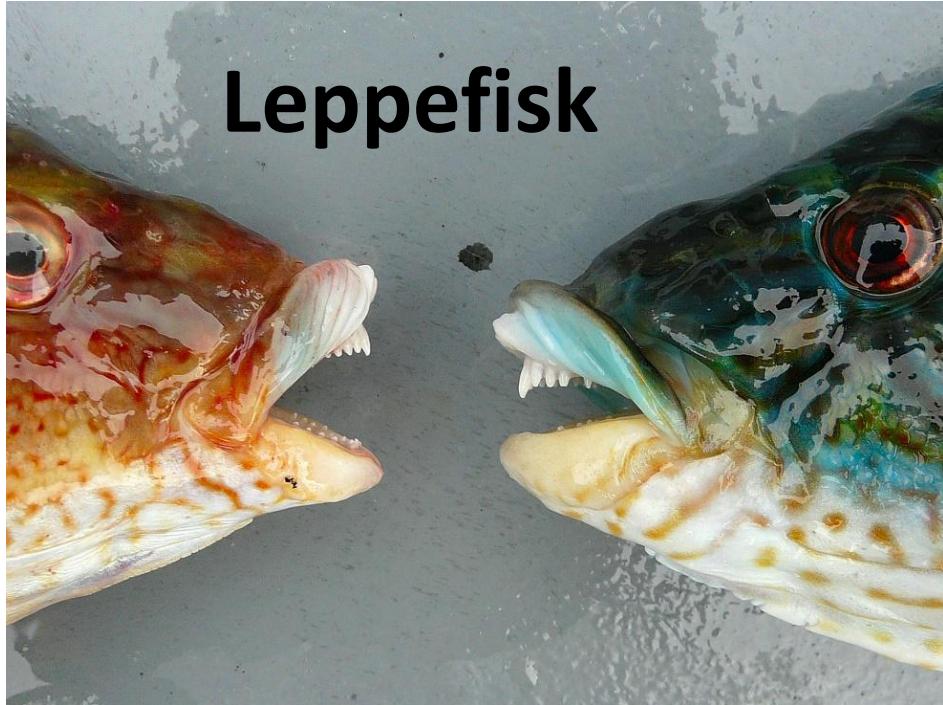
Virus
Parasitt
Parasitt
Bakterieinfeksjon

Victoria Gomerova, Acting head of the Murmansk Veterinary Committee:

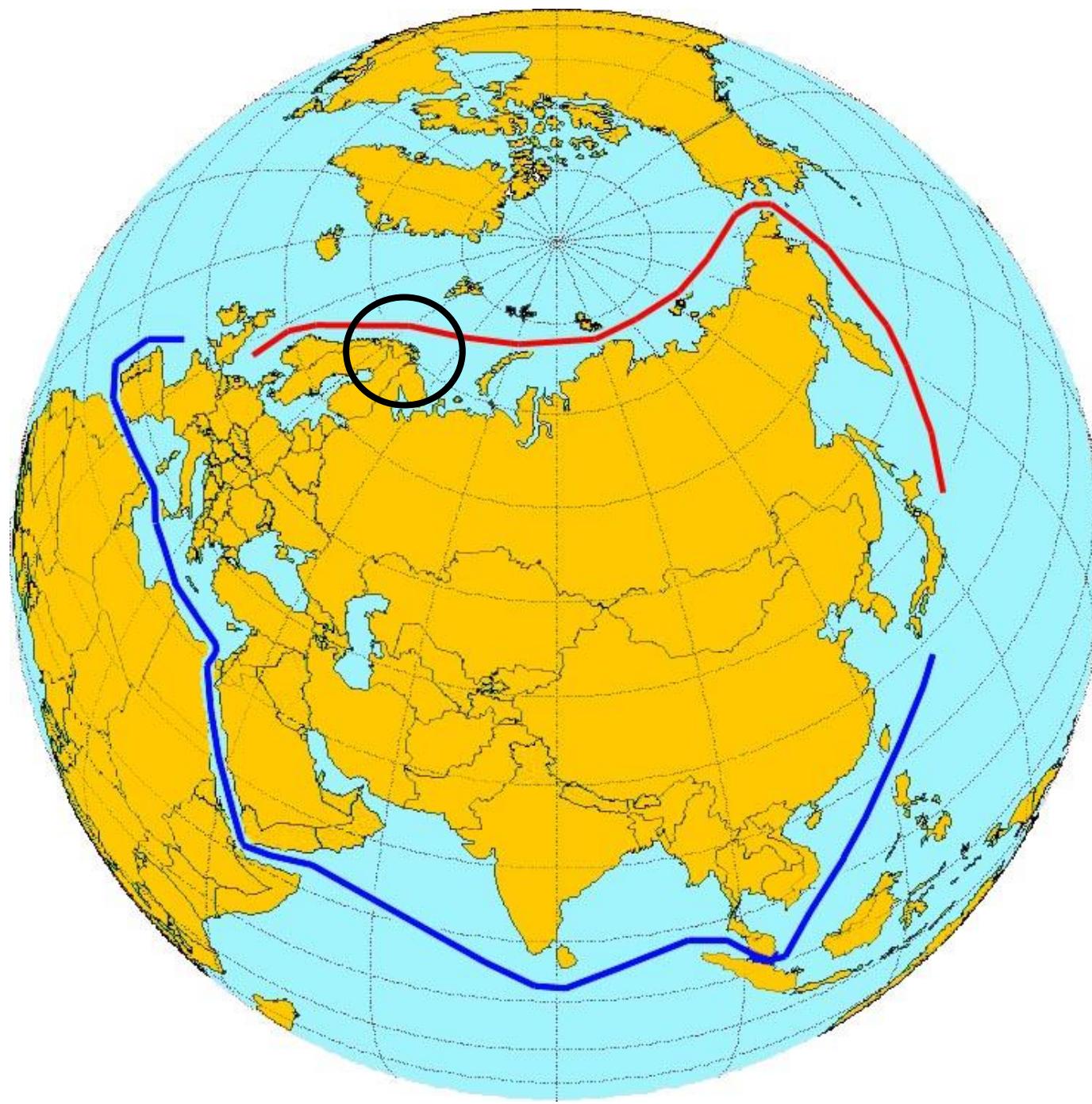
«The Murmansk region is nowhere close to be able to handle the major volumes of biological waste».







**Transport av leppefisk**



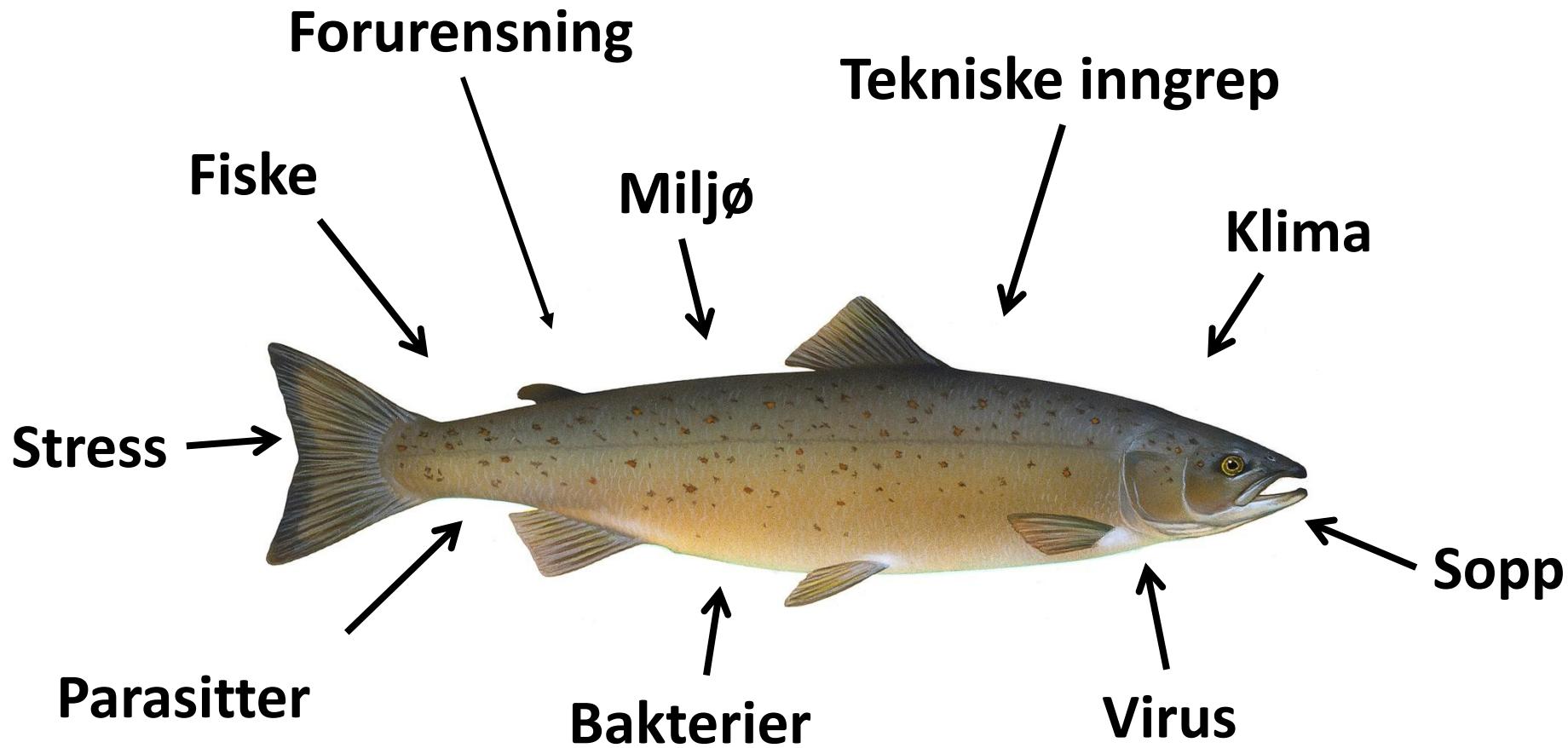


# Virus ?

Virus?



# Helse i populasjoner og hos enkeltindivider avhenger av en lang rekke forhold:





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## Benyttede kilder:



- The Independent Barents Observer
- Informasjon fra russiske nyhetsmedier (Interfax-russia.ru, Vedomosti, TASS)
- Ilaks.no
- Per Anton Sæther, Marin Helse AS
- Veterinærinstituttet Nord Norge, Harstad
- «Murmansk regional station for animal diseases control».