

Evaluation of the PD - control strategy in Norway

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Background

- An increasing number of SAV outside the endemic zone
- A new genotype : marine SAV-2
- Economic losses : cost/benefit



The source??

- From wild Norwegian fish
- From SAV 3
- From Scotland with well boat 

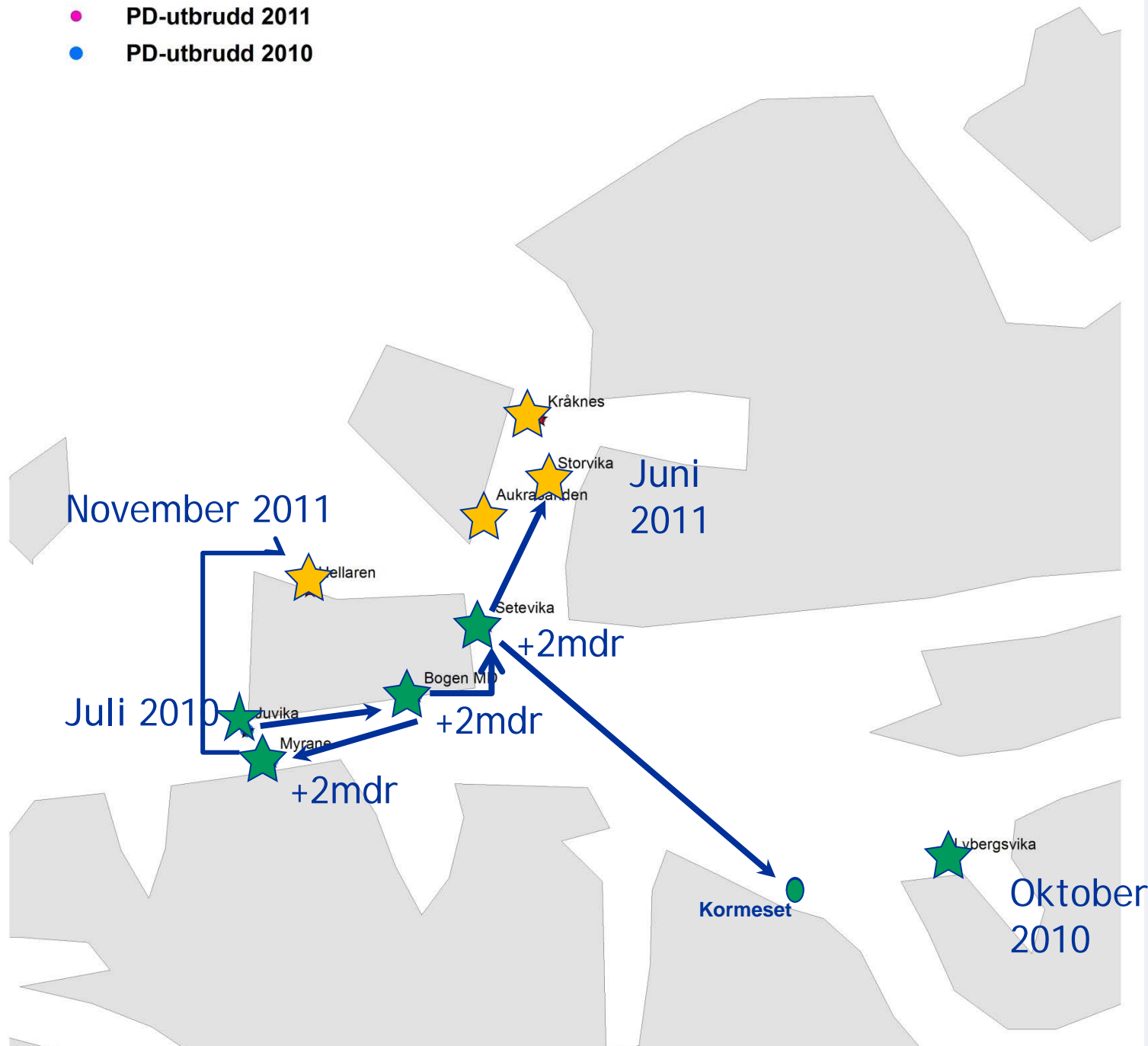


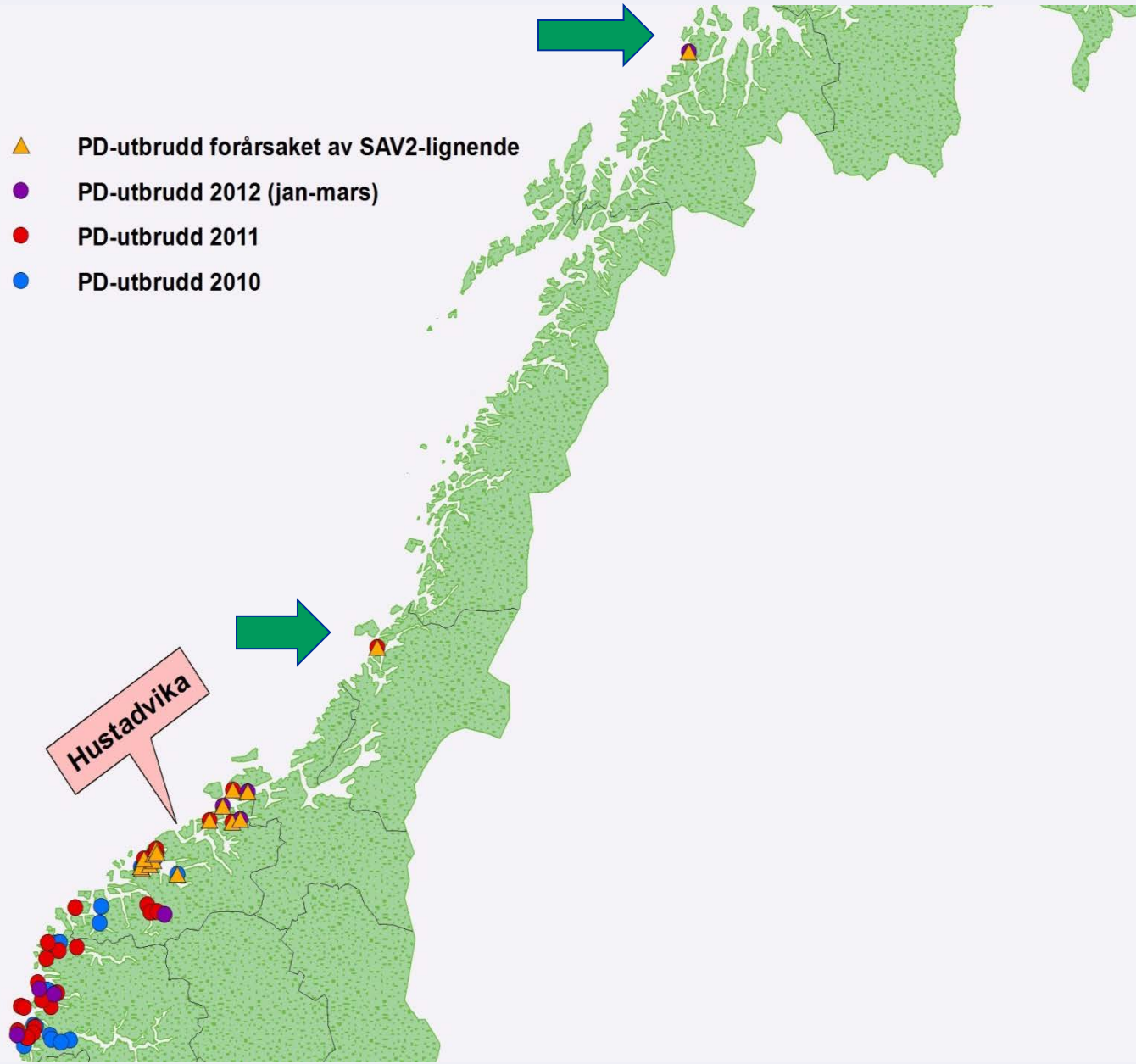
After the introduction:

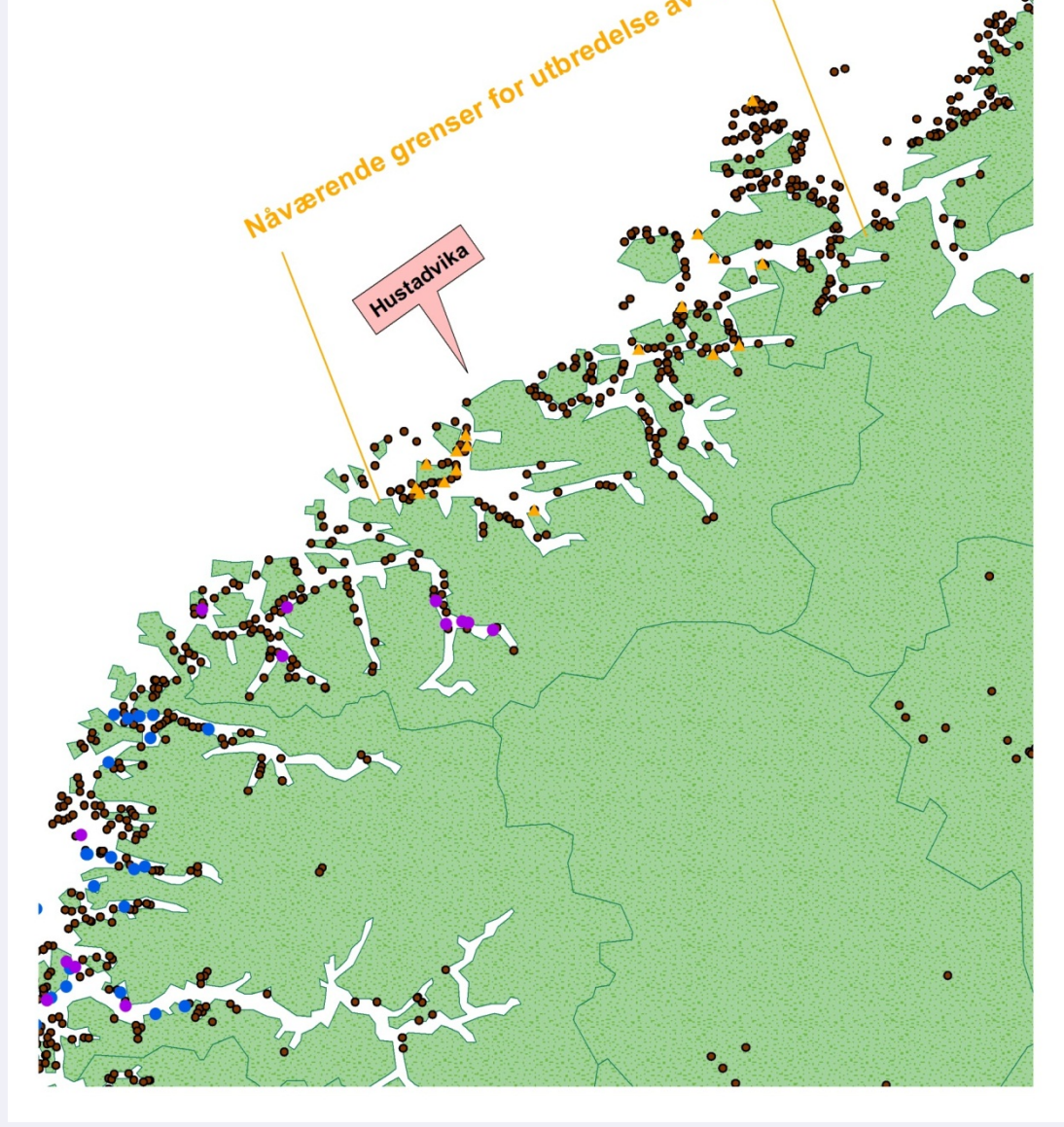
- From farm to farm through the water
- Fish farming related activities
 - transportation of fish/transport water
- Wild fish
- Escapees



- ★ SAV2-lokaliteter
- PD-utbrudd 2011
- PD-utbrudd 2010







Is the old boarder (Hustavika) effective?

- Effective for SAV-3
- Not effective for SAV-2

- Water transport:
 - 18 km with no fish farms,
 - Northbound current 15-40 cm/s
 - 15 cm/s: 36 h

- Transportation of fish

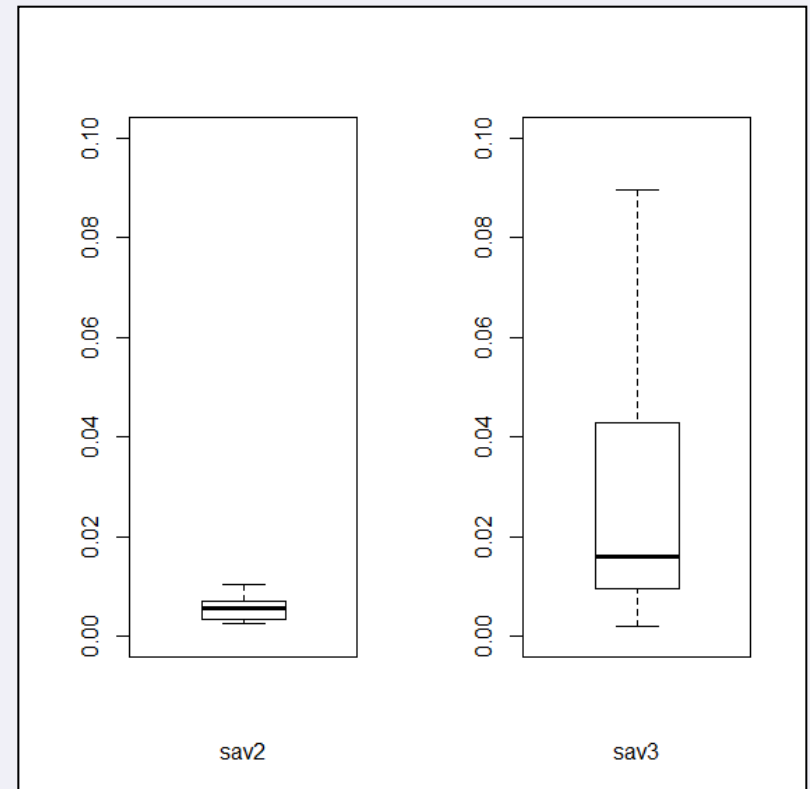


- Registrerte havbrukslokaliteter



Does SAV 2 differ from SAV 3?

- Transmission: Same pattern
- Pathology: Same
- Mortality: Probably somewhat less virulent??
- Vaccination: Little information



Conclusion:

The same biosecurity measures can be applied for both viruses.

SAV3 and SAV2 can be regarded as two different epidemics



What kind of scenarios can we expect??

Cost/benefit??

Scenario	Cost PD SAV2	Benefit vs. scenario 1
1) PD SAV 2 endemic, 50% new cases	-13,2 mill	
2) PD SAV2 exsotic, 10% new cases	-8,5 mill	+ 4,7 mill
3) PD SAV2 excotic, 20% new cases	-15,7 mill ¹	-2,5 mill

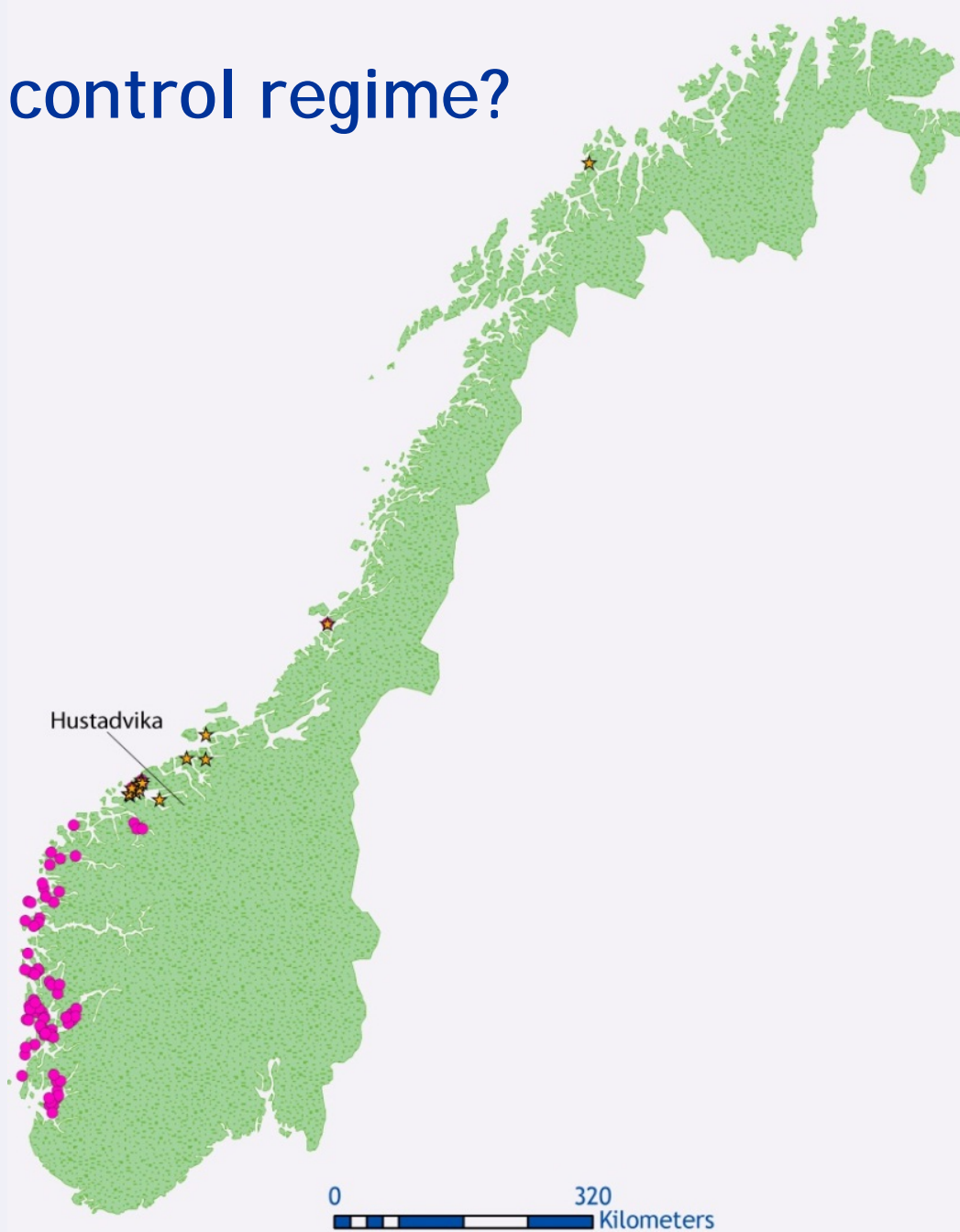


Estimated cost-benefit for industry and society depending on control

- Modell - depending on prices and parameters
- 10% stamping out vs 50% endemic
 - + 5 mill per site
- «Tipping point» - stamping out - one site vs endemic
 - three new cases



A new control regime?



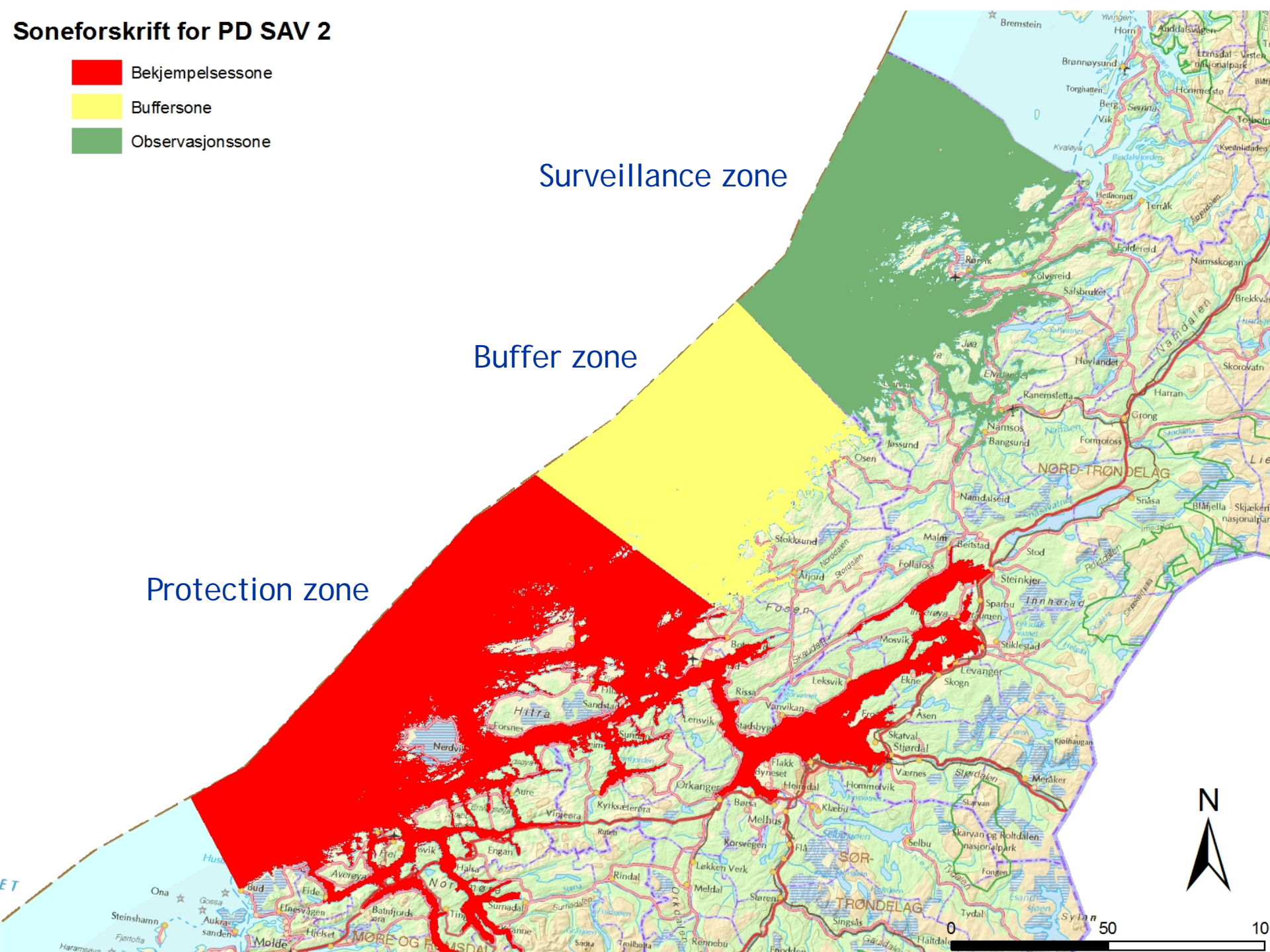
Soneforskrift for PD SAV 2

- Bekjempelsessone
- Buffersone
- Observasjonssone

Surveillance zone

Buffer zone

Protection zone



- Prevent the spread of SAV 2 from the protection zone
- Reduce the consequences of SAV 2 in protection zone
- Combating the spread of SAV 2 in Norway



Measures

- Fish Health control and screening
- Zooning- following
- Restrictions on transportation of smolt within and through the zone.
- Restrictions on slaughtering.
- Restriction on fish movement
- Well boats and supply boats
- Documentation of transportation and movement
- Net and net cleaning

