

ITS World Congress 2022





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Bjørn Holm-Varsi d of innovation hs and Finnmark County



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te the development of charging ructure in rural areas

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ment of fast chargers at three locations where:

There is no commercial basis

There is a long distance to existing charging stations

Co-location with other service offers is possible

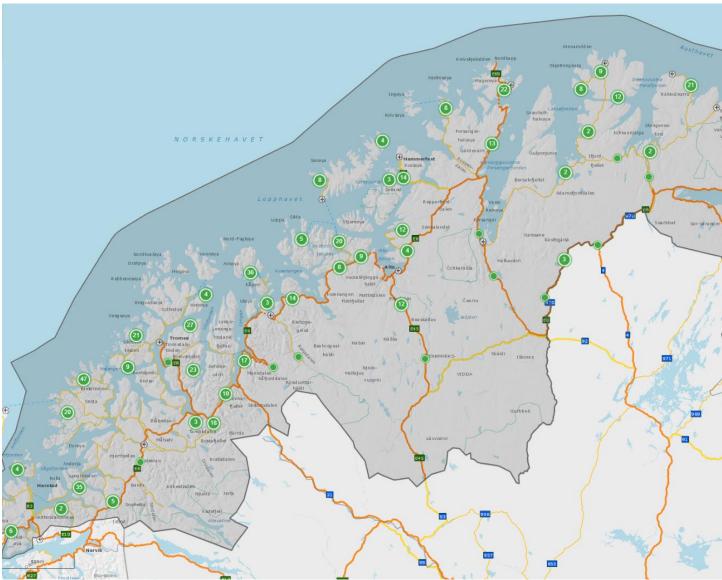




Avalanches points

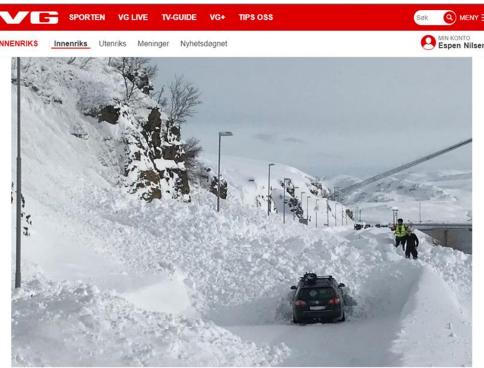
Troms and Finnmark county

- 542 avalanches points along the roads in Troms and Finnmark
- Closing the roads in case of avalanches
- Huge challenge for people and businesses
 - Accessibility, perceived risk, economy, etc.





- Vehicles in speed have small chances getting hit by a snow avalanch
- Neighbouring avalanches
- Detecting snow avalanches that blocks a road and if there are vehicles inside the area

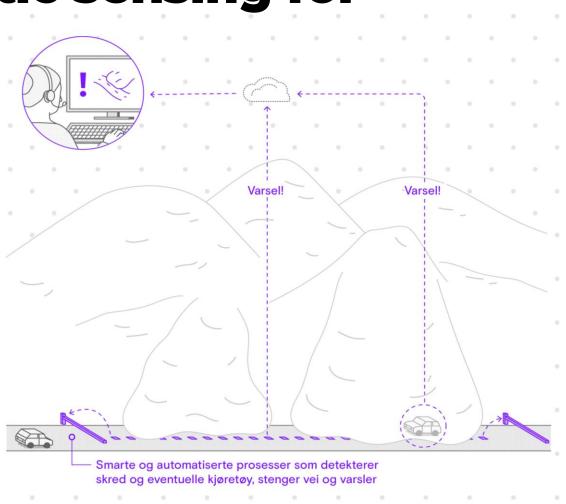


NESTEN TRUFFET: Bilen til Øyvind Berg ble stående mellom to snøskred fredag ettermiddag. Foto: Tore Nilsen / NTB scanpix

Øyvind Berg og familien ble fanget mellom to snøskred



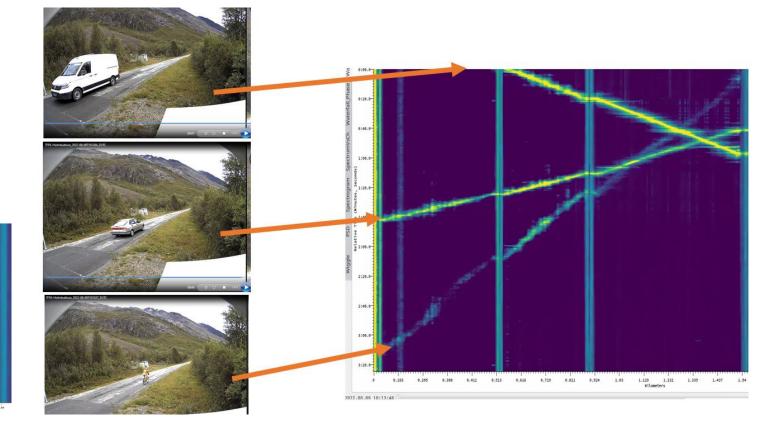
- Requirements
 - Detecting snow avalanches that blocks a road and if there are vehicles inside the area
 - Notify the TMC
- Wishlist
 - Edge computing
 - No/minor installations inside the avalanche area
- Funding from Innovation Norway for an innovative procurement
- Innovation partnership with Norconsult, NORSAR and Alcatel Submarine Network

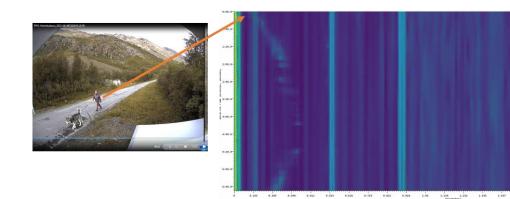






- Very few larger avalanches last winter
- No problem detecting and recognizing vehicles

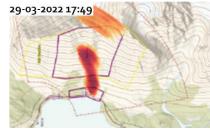


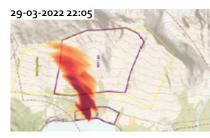




- 43 registered avalanches
- Can automatically detect the eight largest



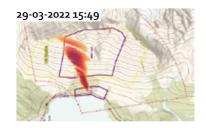


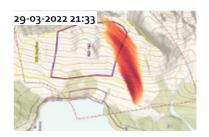








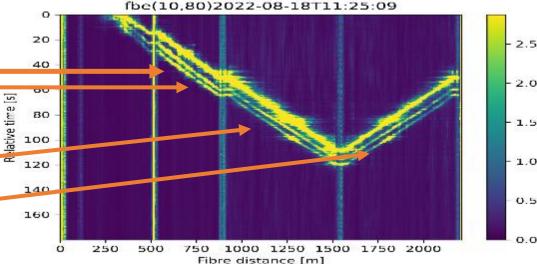








- 43 registered avalanches
- Can automatically detect the eight largest
- Truck with two cars following
- Different ways of laying the fibre





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Troms og Finnmark fylkeskommune Romssa ja Finnmárkku fylkkagielda Tromssan ja Finmarkun fylkinkomuuni

Thanks for your attention!



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