



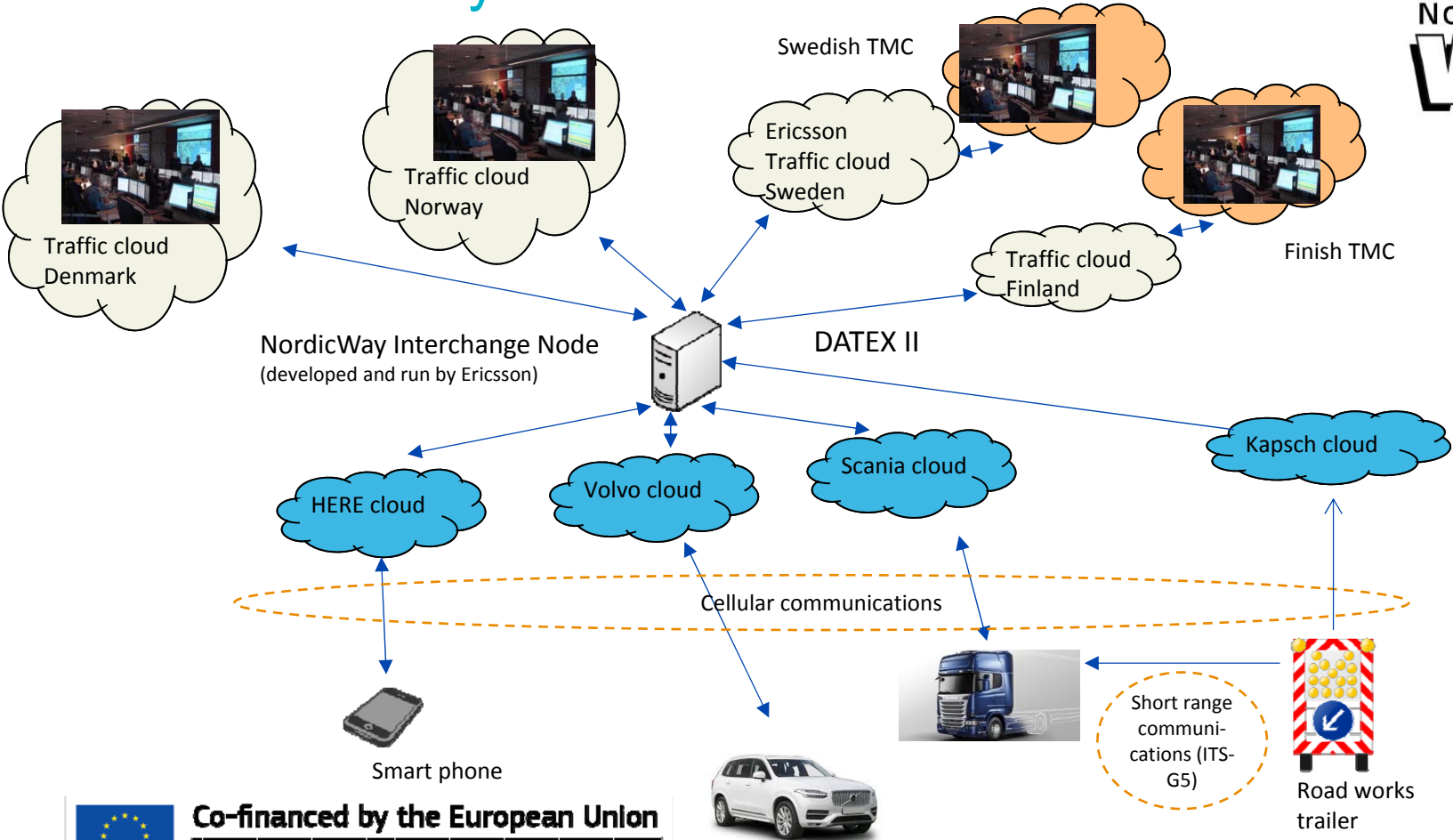
NordicWay Architecture

Anders Fagerholt



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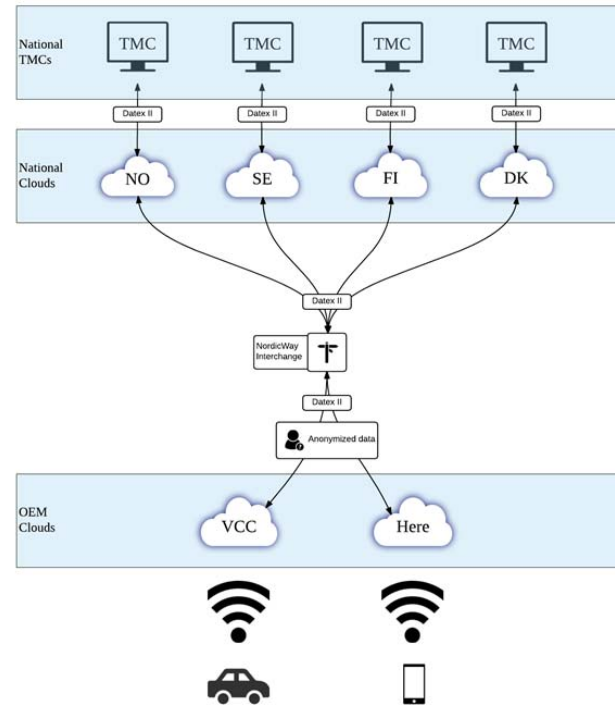
NordicWay architecture



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System architecture

- Traffic management – pull / push DATEX II
- Traffic data provider is the national traffic cloud - pull / push DATEX II
- › Service Provider / OEM has the geo-messenger function in their cloud. The service provider/ OEM send and receive DATEX II over the Interchange Server.
 - Here use tablets in vehicles and CAM/DENM over cellular.
 - Volvo use proprietary data format (aggregated). ODB II add on.
 - Kapsch ITS G5+cellular box send “Active Road work” to the Kapsch cloud.
 - Scania use proprietary data format and tablets



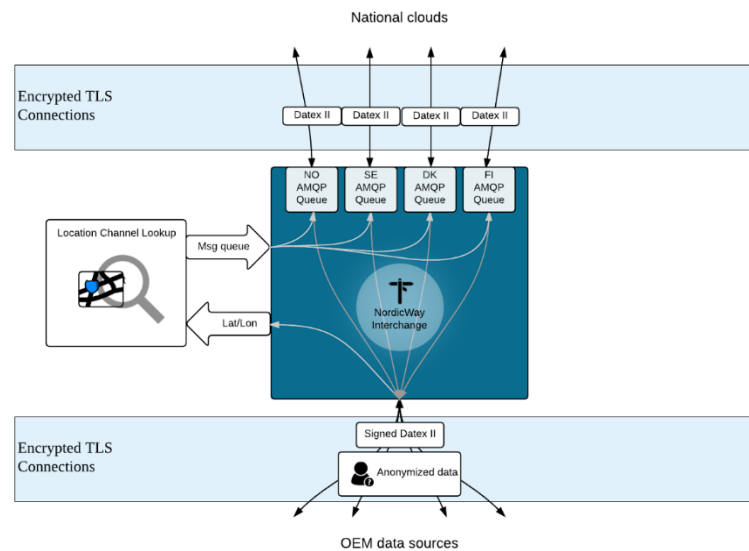
	Finland	Sweden	Norway	Denmark
Service Provider/OEM	HERE	Scania, Volvo Cars, Kapsch	Volvo Cars	-
Traffic Data Provider	Infotripla	Ericsson,	Norwegian Road Authority	Danish Road Authority
TMC/Road Authority	Finnish Transport Agency	Swedish Transport Administration	Norwegian Public Roads Administration	Danish Road Directorate

Interchange Node



Ericsson developed the Interchange Node based on Open Source code. A publish-subscribe message queue system share data between the OEM clouds and sort the messages by geographical position for the national clouds.

Subscriptions are based on source, area and topic.

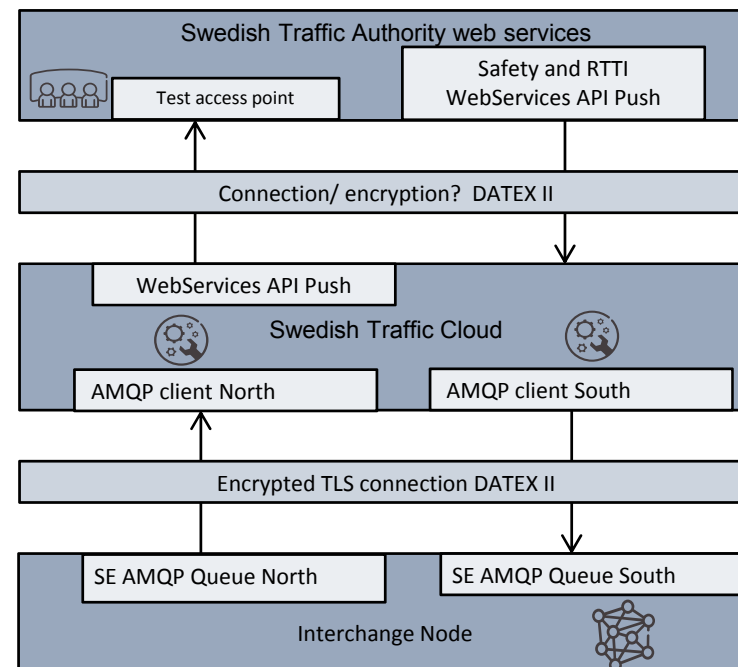


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Swedish traffic cloud



- Ericsson developed the Swedish traffic cloud
 - Deliver data from vehicles to the Swedish Traffic Authority
 - Take data from the Swedish Traffic Authority (and other sources), sort and mark it, deliver to the Interchange server.
- All data is in DATEX II (with AMQP meta data header)



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