

Emergency Vehicle Approaching







Lissabon May 2023











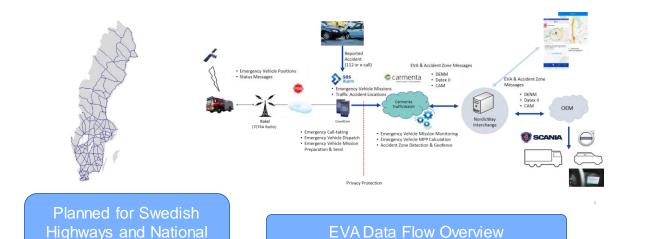




NordicWay 3 Flagship EVA



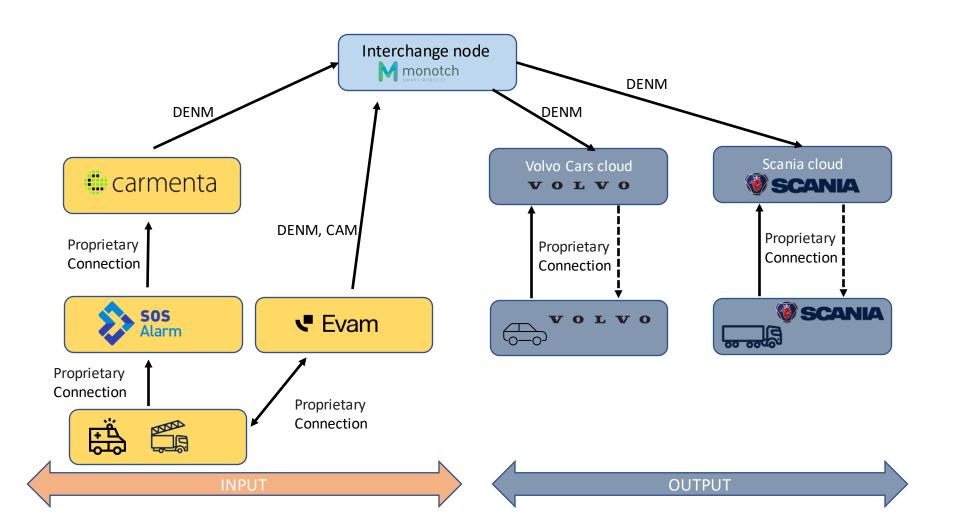
Flagship pilot Emergency Vehicle Approaching – aims for setting the foundation for a national deployment of EVA warning C-ITS service in Sweden and performs studies of the potential effects of EVA services in operation.

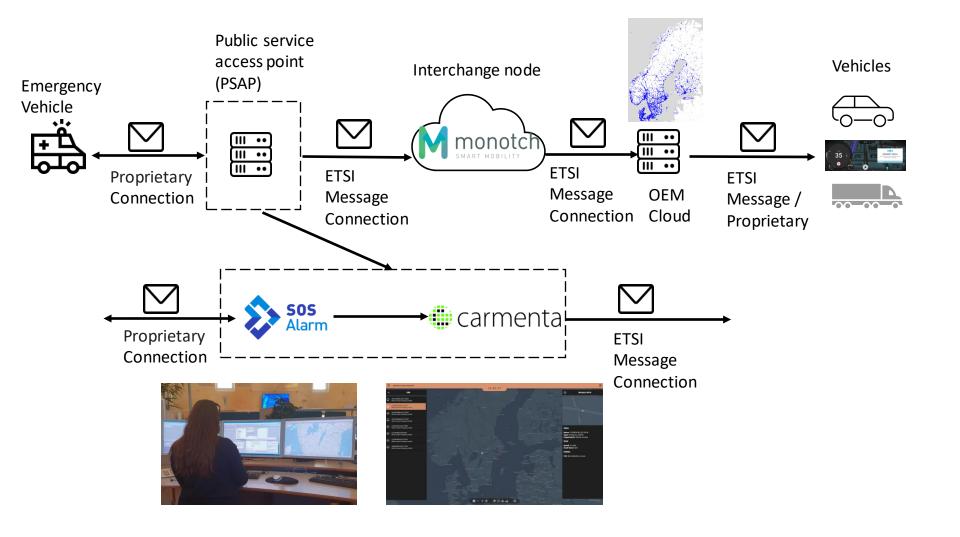




Co-financed by the European Union
Connecting Europe Facility

Roads

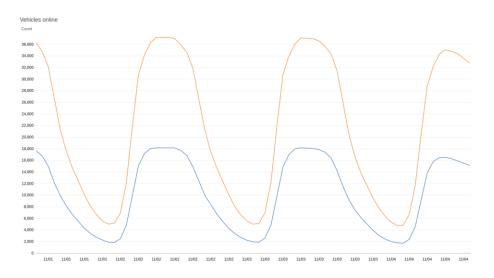


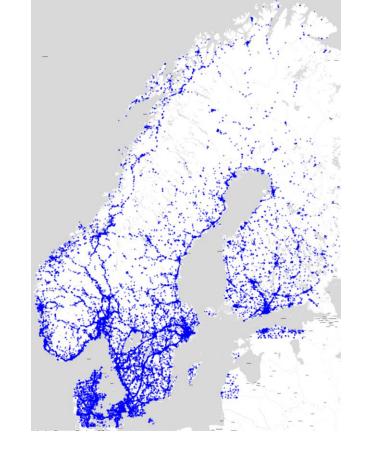


Real position data from connected fleet

WAY3#

- In Scandinavia,
- During a typical working day
- 40 000 Scania vehicles simultaneously online
 - •~50% is on the larger roads

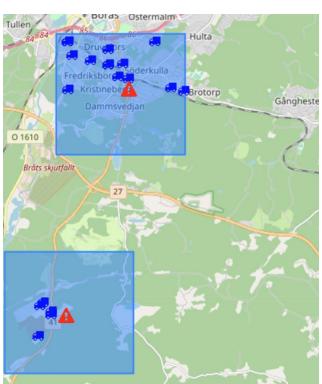


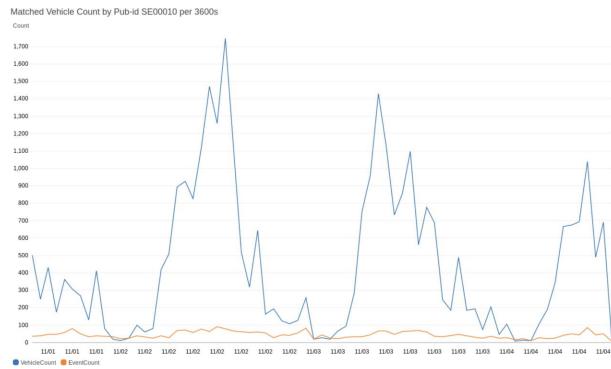




Match vehicles with events









Support in emergency vehicle interactions

- Emergency vehicles have a difficult task, and must get where they need to go as quick as possible
- Surrounding road users can hinder the emergency vehicle's path
- It is difficult for drivers to hear and localize sirens and warning lights in time
- EVA warnings can support drivers when interacting with an emergency vehicle in traffic

EVA's effect on traffic behavior



- Studies from VTI show that drivers that receive EVA warnings move over more quickly and maintain a lower speed (Lidestam, 2020; Weibull, 2023)
- Driver may need one interaction to change their driver behavior (Weibull, 2023)
- EVA warnings can decrease delay time for emergency vehicles response time

The case of Swedish cardiac arrests



- Each year there are 6 000 out-of-hospital cardiac arrests (HLR-rådet, 2022)
- If response time decreases with one minute, chances of survival increase from 3.9 to 4.6 % (Sund, 2010)
- This would mean that an additional ~40 would survival out-of-hospital cardiac arrests each year if we can lower response time with one minute





•Thank you!

•Any questions?