

ITS Norway



Innledning Nye Veier

2016-11-16

Trond Hovland
Daglig leder

Dagsorden

1. ITS Norge
2. ITS trender som forandrer
 - Autonomi
 - Mobility as a Service
3. ITS krav til infrastruktur
4. 3D - planlegging bygging og bruk
5. Oppsummeringer

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Visjon

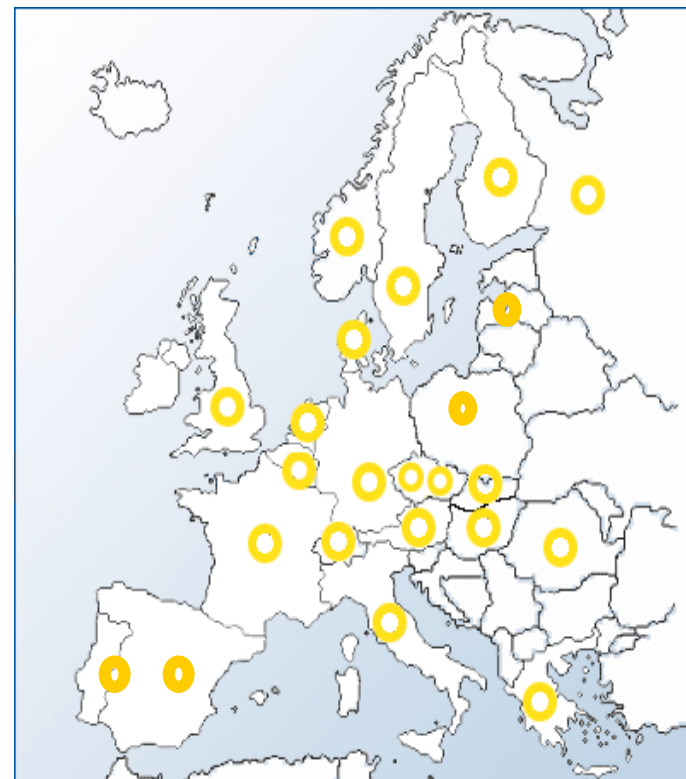
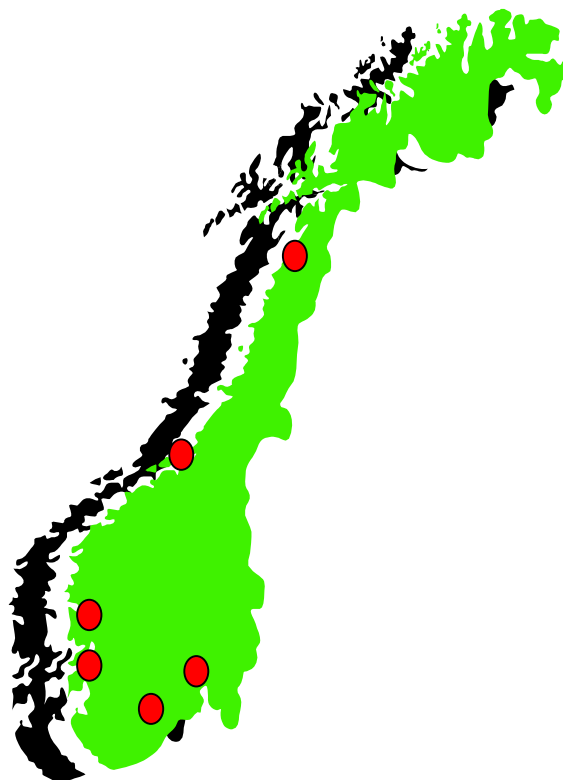
ITS Norge
Smartere, sikrere og renere transport

ITS Norge og ITS Nationals

Grunnleggere



Ca 65 medlems-
bedrifter



Ca 100 ITS
foreninger i verden

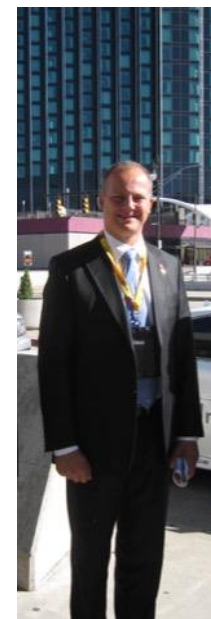
ITS Norge struktur



Medlemspleie



Project
plattform



Policy - media

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More than Three Trends...

Technology:

- Big data
- Cloud Computing
- Sensors – small and cheap
- IoT
- **Autonomous driving**

Society:

- Sharing economy
- **SmartCity**
- Mobility as a Service
- Alternative fuel – EV and H2

Drivers:

- Climate change
- Policies
- Changing demography



Autonom kjøring og Mobility as a Service

Målsetninger:

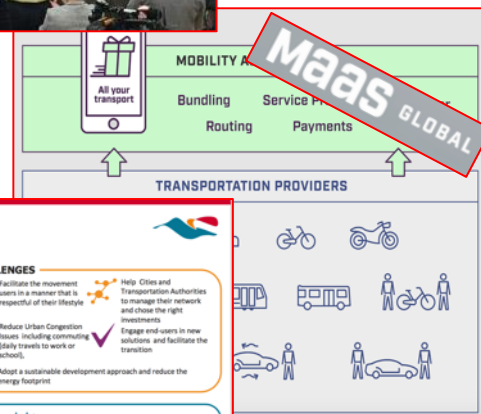
- "Ta byen tilbake"
- Redusere kø og utslipp til miljø
- Forbedre mobiliteten til den enkelte

Virkemiddel:

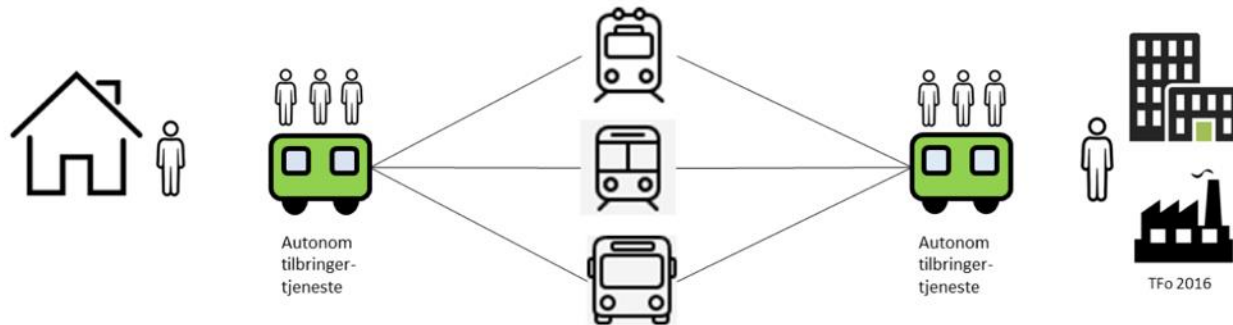
- Policy og finansiering
- Teknologi og standarder

Eksempler SmartCity og ITS:

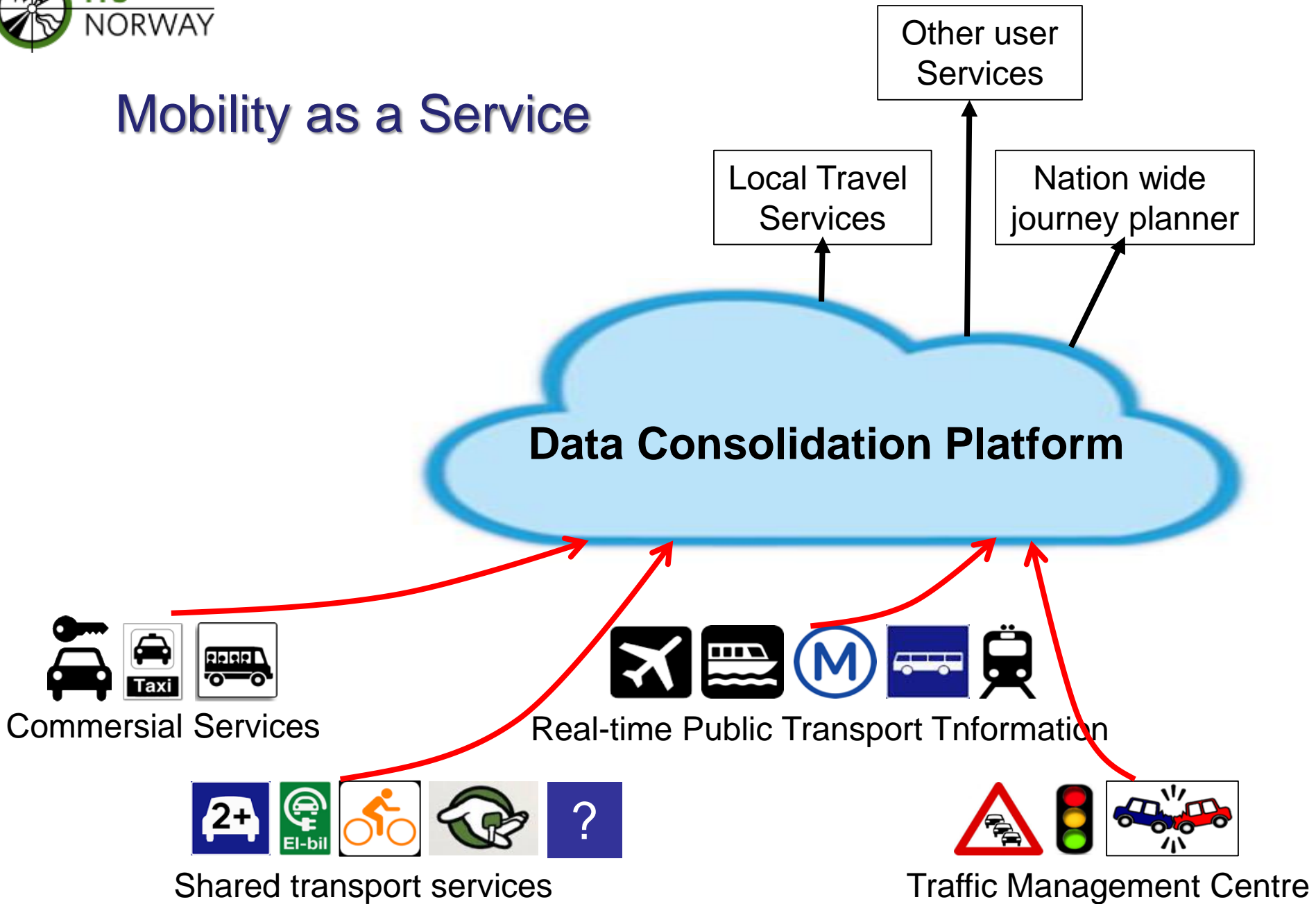
- US DOT Smart City Challenge
- MaaS OY sammen med Finsk SD
- Colibry – H2020



Autonomous cars and Public Transport



Mobility as a Service



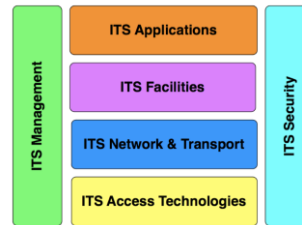
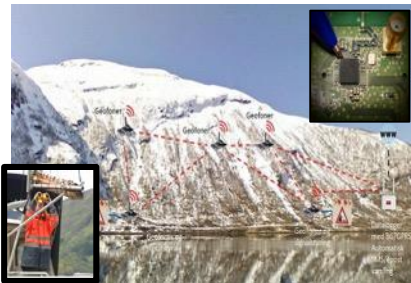
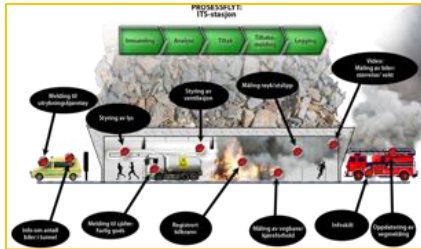
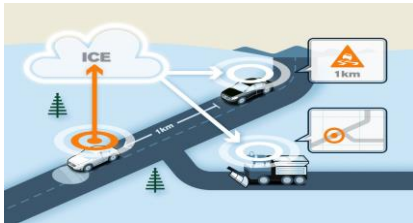
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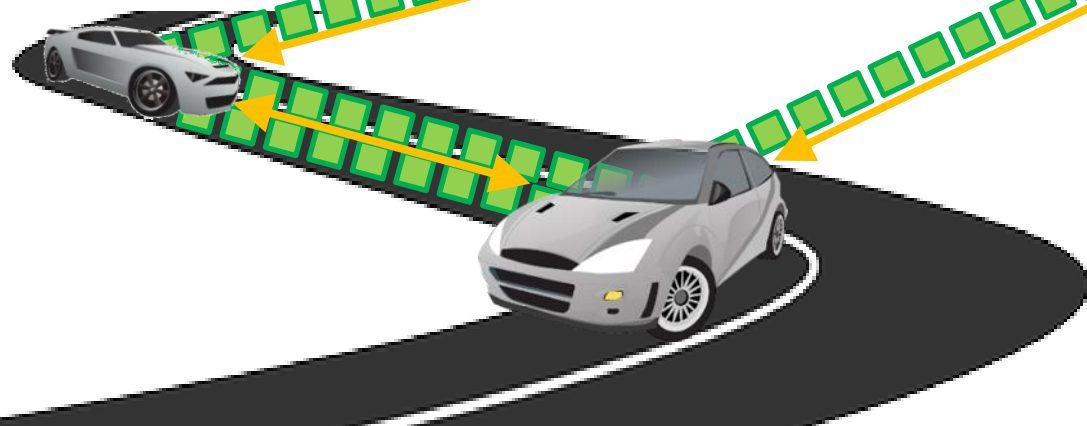
Autonom og ingen krav til infrastruktur



Infrastrukturen støtter autonom kjøring!



Kommunikasjonsutstyr langs vegen

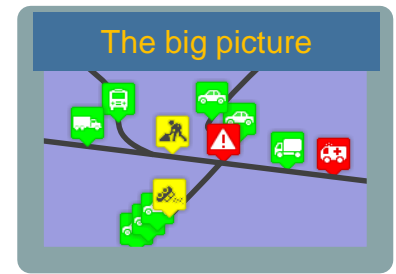
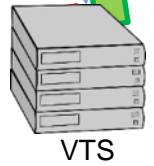


ITS-G5



Meldinger fra bil

Meldinger til bil



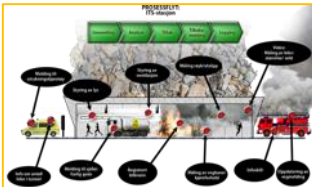
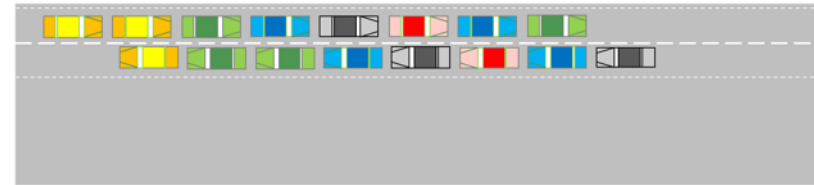
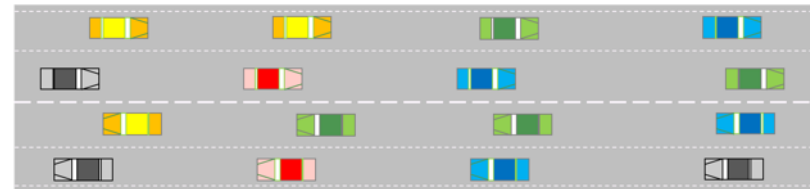
Q-City



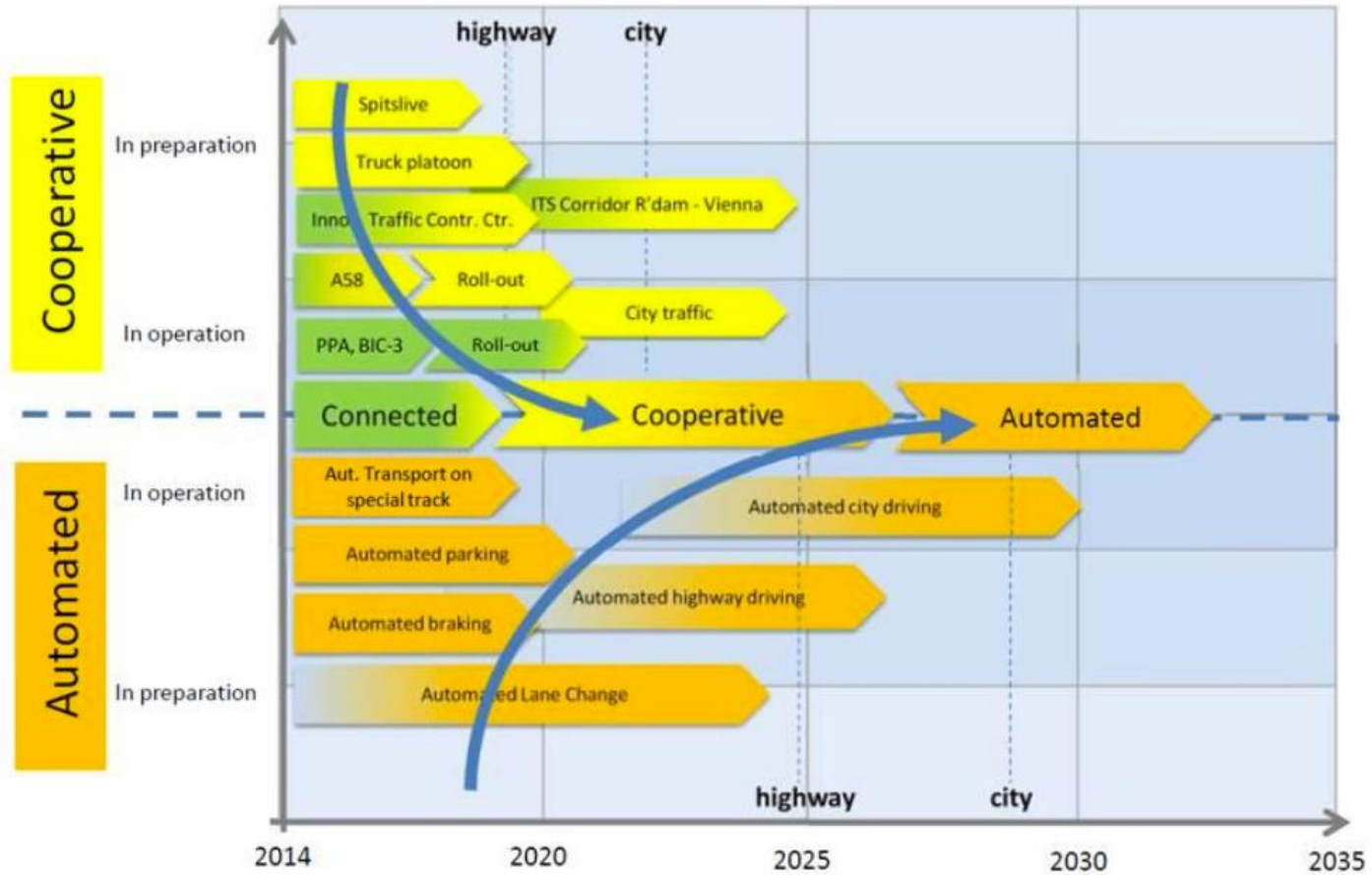
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1 – 2 – 3 – autonom



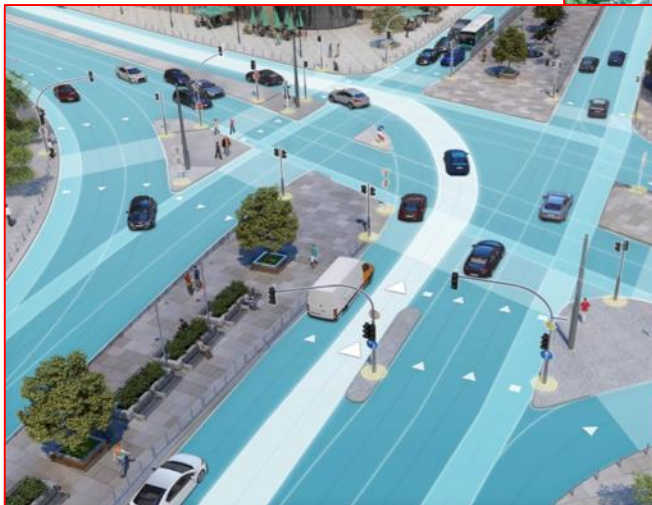
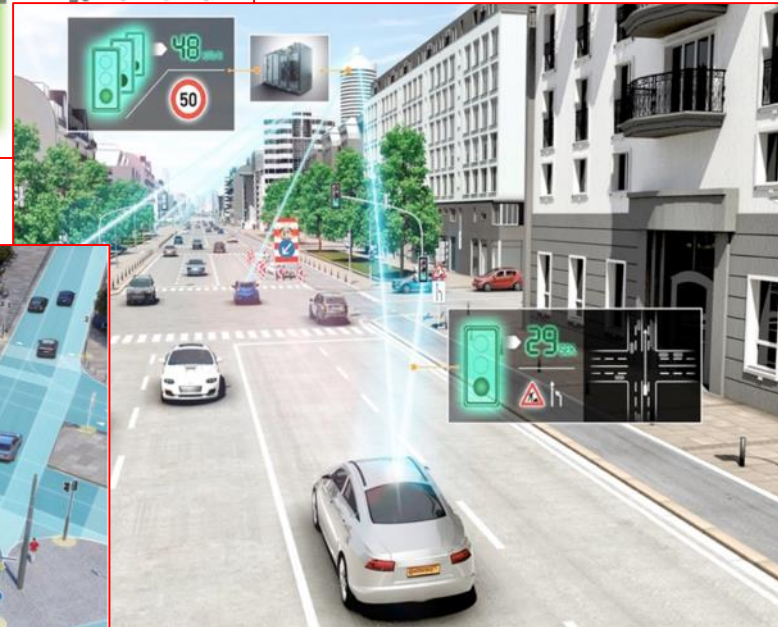
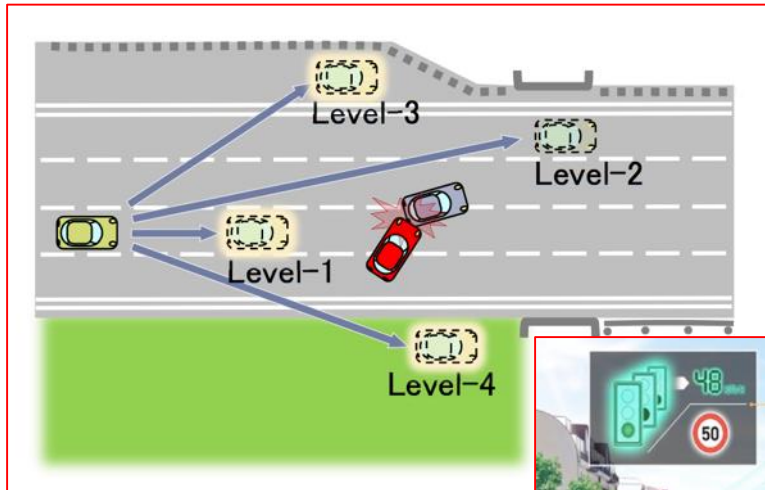
When???



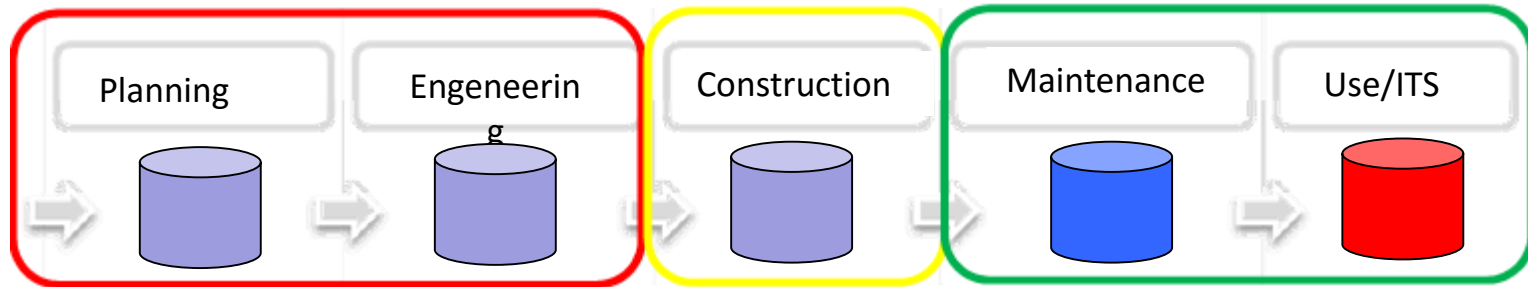
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Ta vare på alle data!



3D til ITS



3D object oriented models based on
BIM and ISO/TC211



ISO/TC211

ISO/TC204



TN-ITS
Specs. and
geometry

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Oppsummering – krav fra ITS

- Trendene binder sammen autonomi og MaaS
- Kommunikasjonsutstyr og strøm langs vegen
- 3D-planer, prosjektering, bygging, vedlikehold/drift – ITS

Takk – spørsmål?



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