

Autonoma maskiner

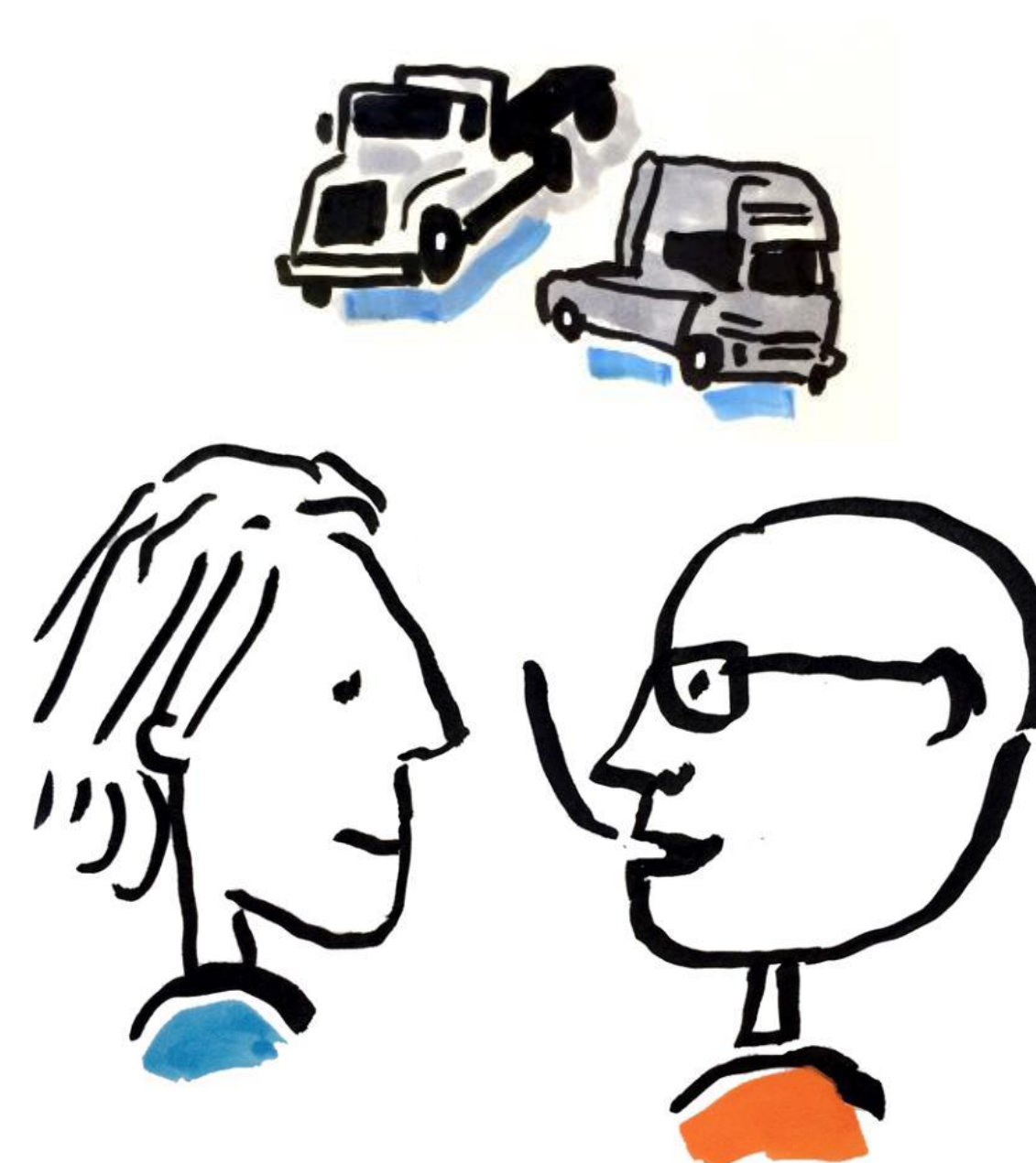


Behind the Scenes - The worlds first self-driving truck in an underground mine

Youtube: [Behind the Scenes - The worlds first self-driving truck in an underground mine](#)

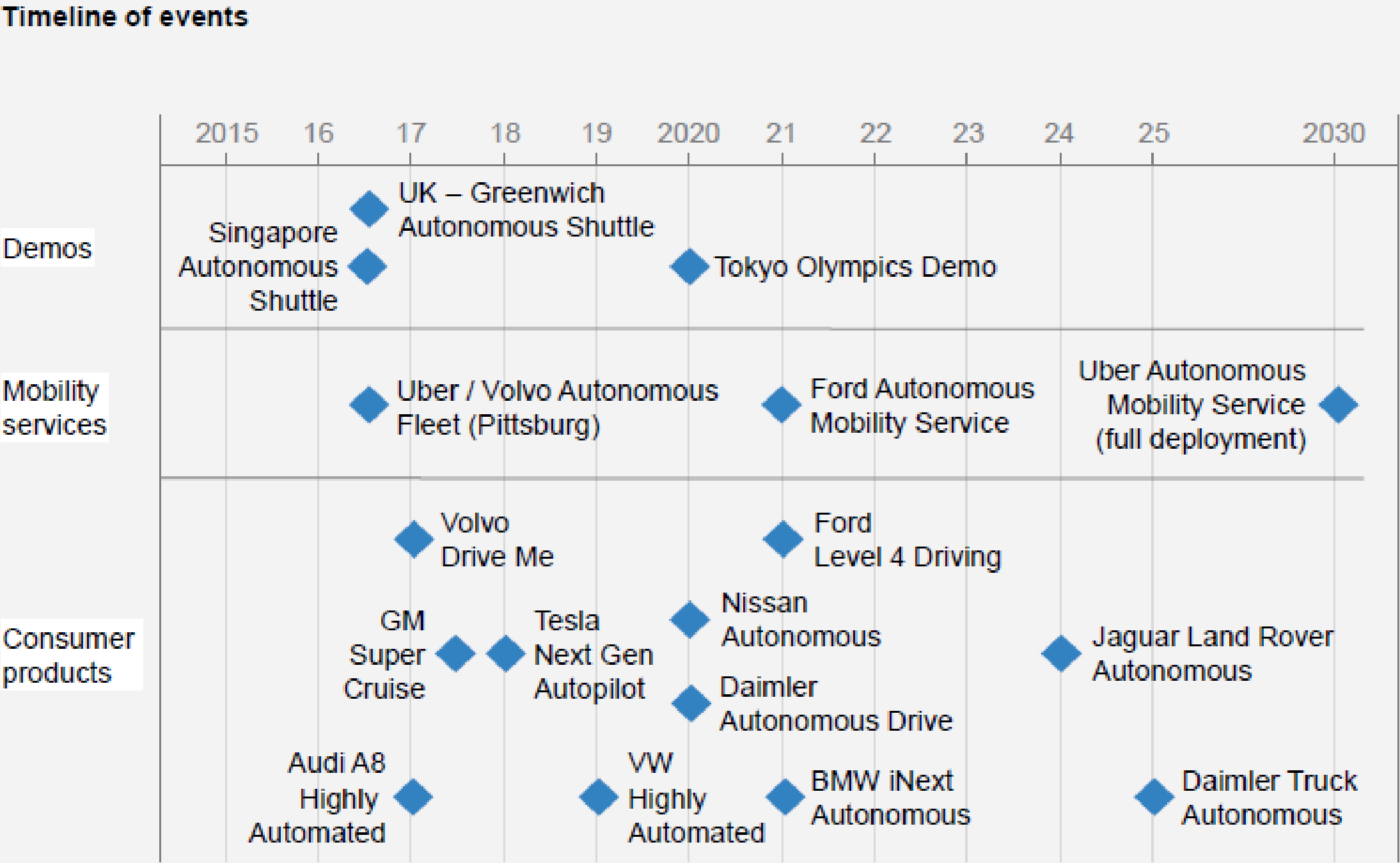
Jag kommer att prata om

- Du och Din bil
- Samarbete
- Lagar och regelverk
- Människan



Du och Din bil 2017

EXHIBIT 5
AUTONOMOUS DRIVE
LAUNCHES



SOURCE: Press search; Company websites



SOURCE: An integrated perspective on the future of mobility, McKinsey&Company, Oct 2016

Autonoma maskiner



**Full
autonomy**

*Operation with no
restrictions neither for
other equipment or
personnel*



**Monitored
Semiauto**

*Operator monitored
autonomous equipment
assisted by operator in
parts of operation, i.e boom
movement, filling
buckets,...*

**Restricted
autonomy**

*Autonomous operation
within area with restricted
access*

**Remote
& robotics**

*Remote operated assisted
by robotics*

**Remote
monitoring**

*Monitoring of autonomous
equipment
I.e. tunnel rig during lunch*

**Operator
assist**

*Operator assist in parts of
operation, i.e boom
movement, autopositioning,
autoleveling*



PRODUCTIVITY

SAFETY



Traffic control



Proximity zone

Safety zone





Samarbete mellan leverantörer

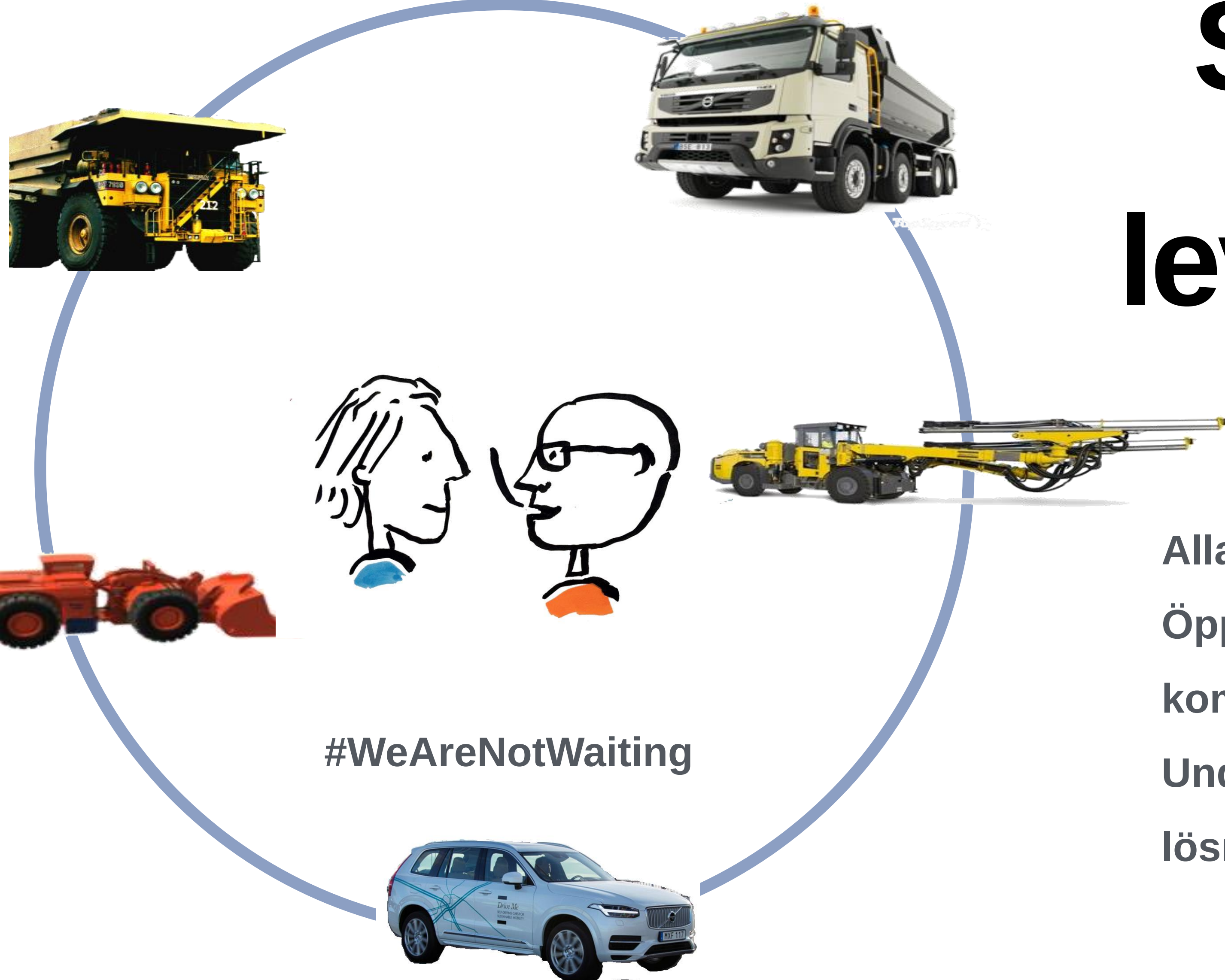
Alla aktiviteter i gruvan

Öppna system & standardiserad
kommunikation

Undvika branschspecifika
lösningar

#WeAreNotWaiting

 **BOLIDEN**



Nya lagar och regelverk



Transportstyrelsen jobbar på...

SOU 2016:28, Vägen till självkörande
fordon - försöksverksamhet

Människan



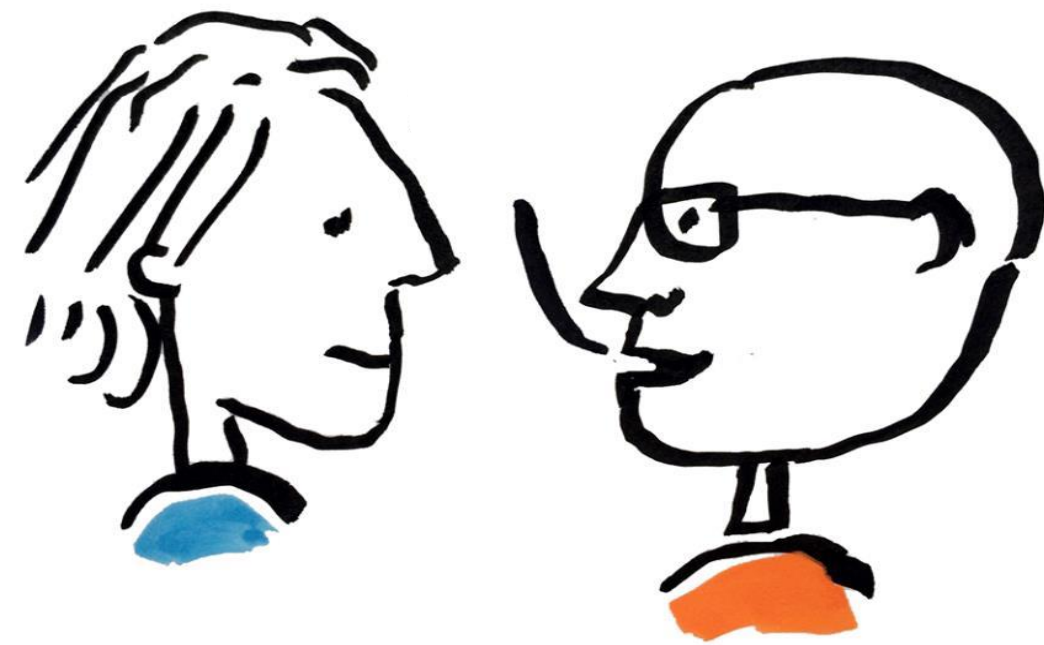








Summaring

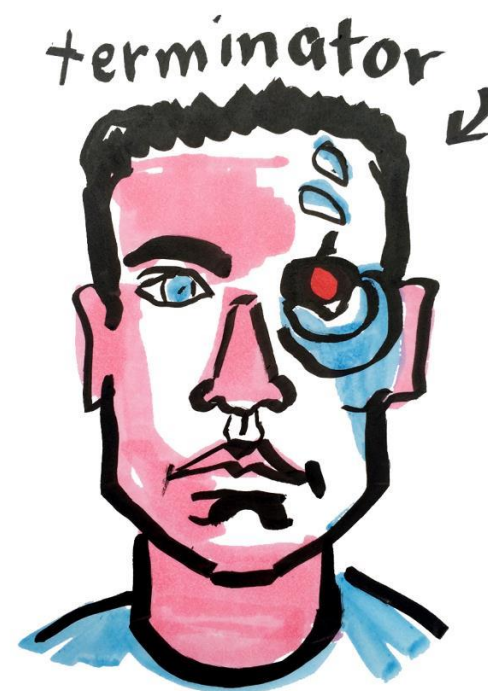


Du och Din bil – Framtiden är här

Samarbete mellan leverantörer

Lagar och regelverk

Människan



BOLIDEN