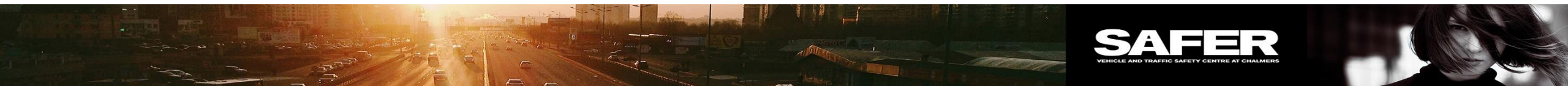


# The Naturalistic Driving Data Platform at SAFER

Helena Gellerman



# Naturalistic Driving Test equipment



Driver and forward camera



Rear camera



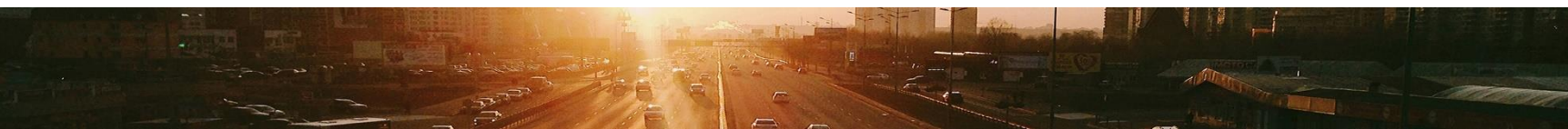
Eye/head tracker



Logger including vehicle data



Feet camera

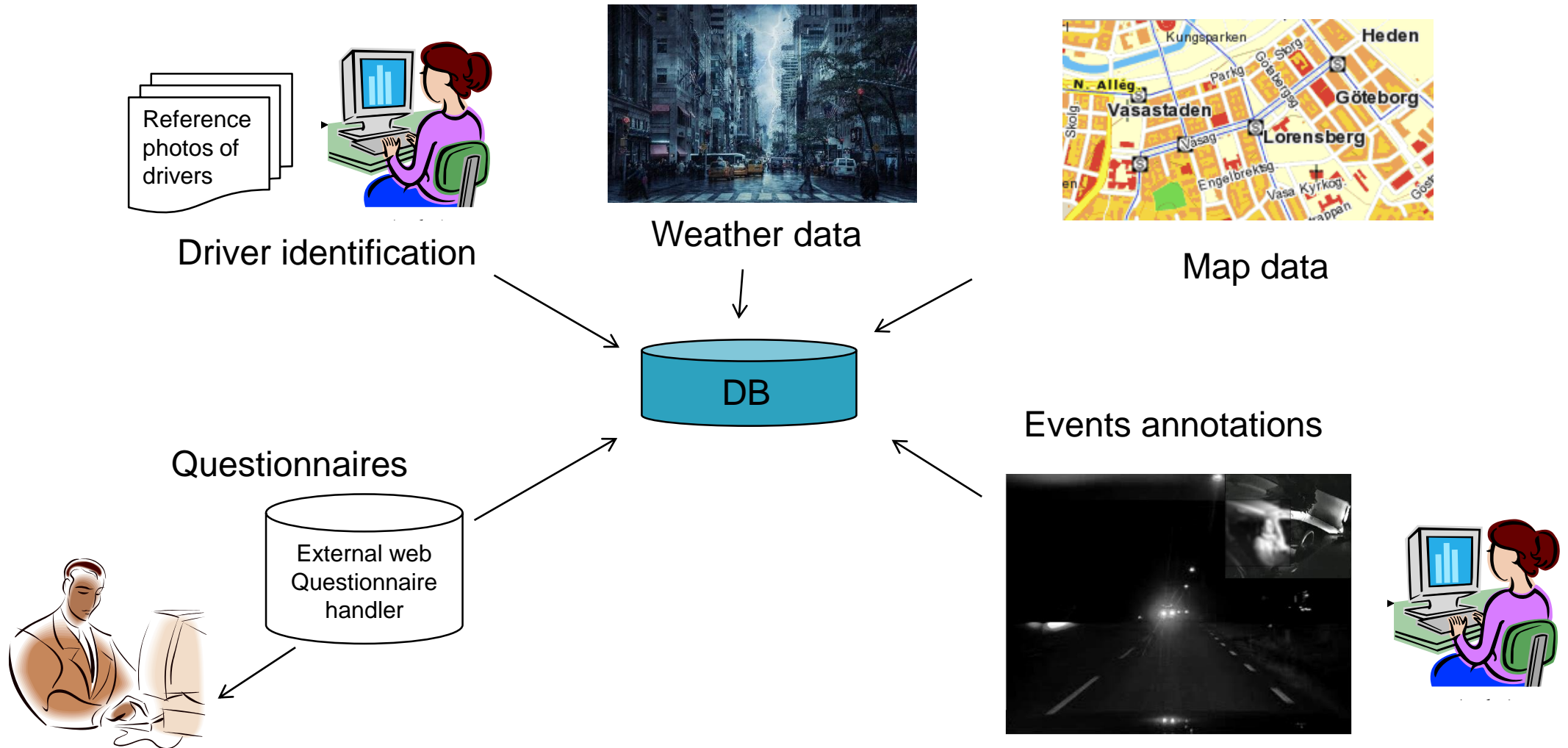




# Vehicle logger system transformed to suite bikes

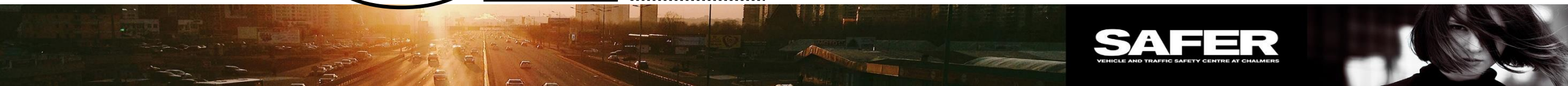
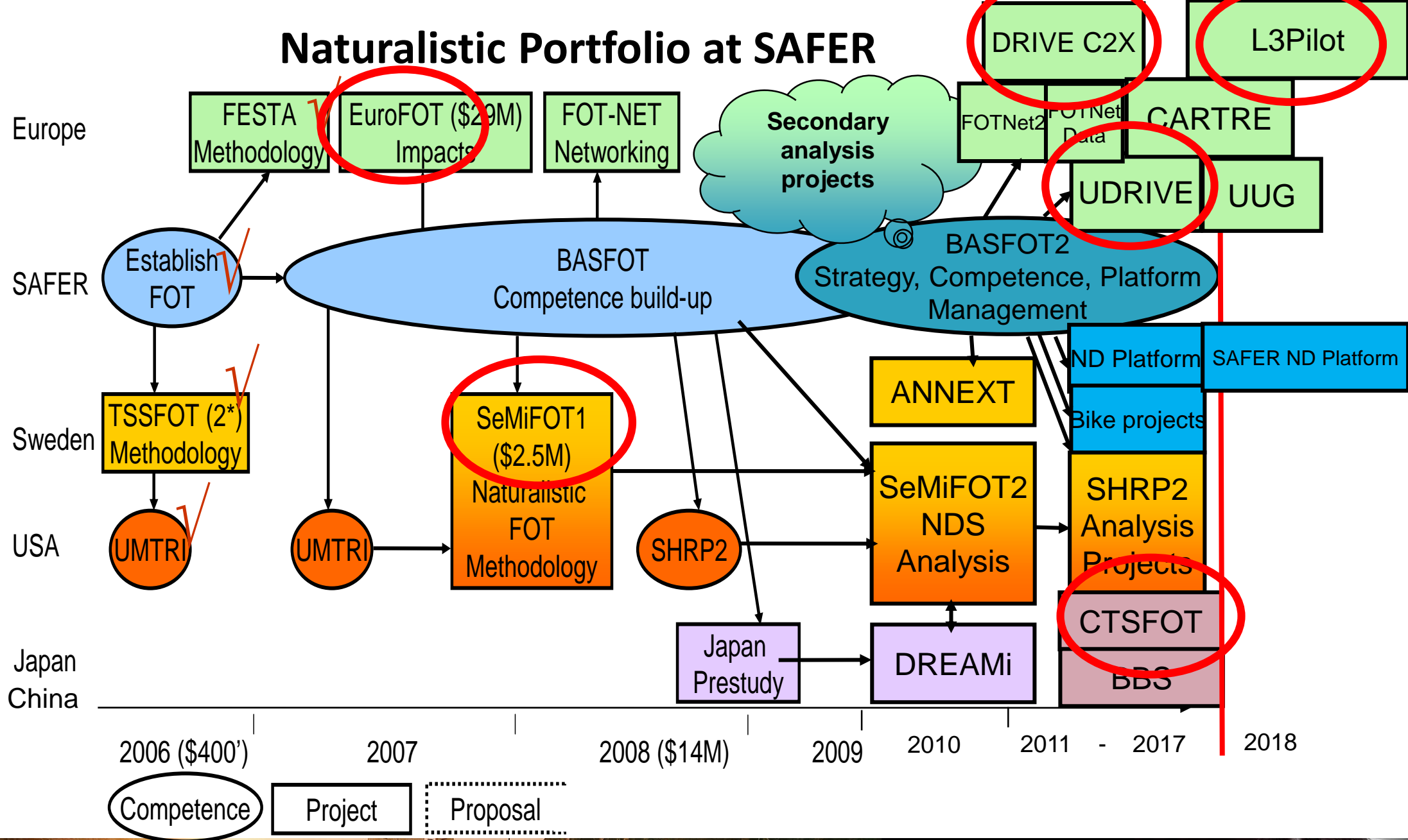


# Data enrichment



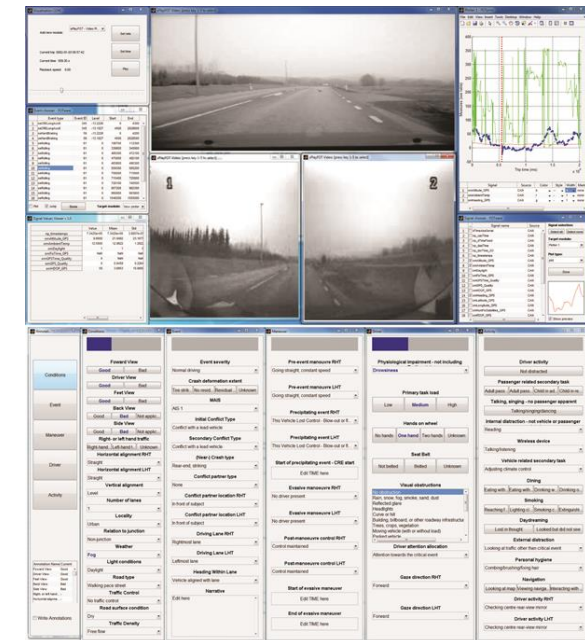
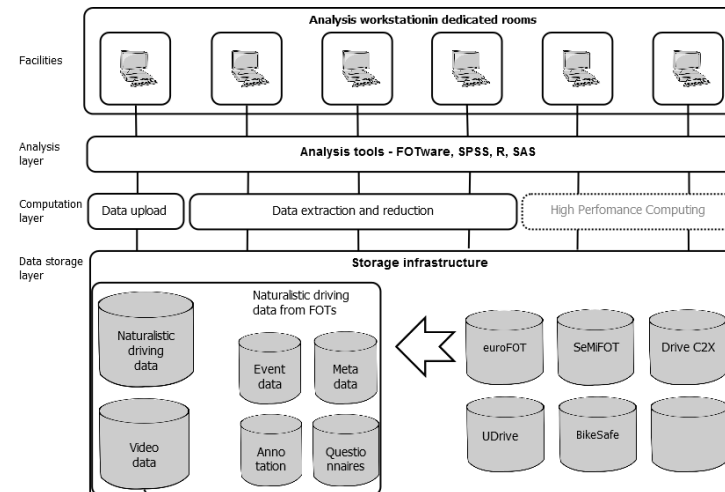


# Naturalistic Portfolio at SAFER

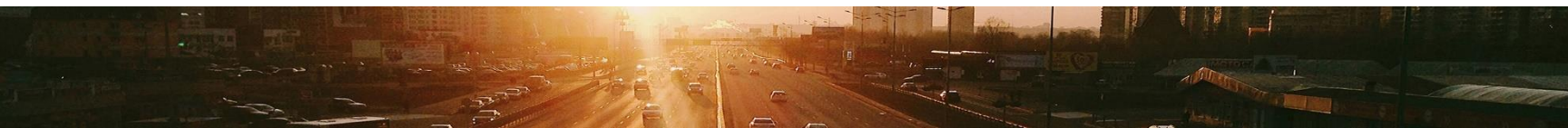
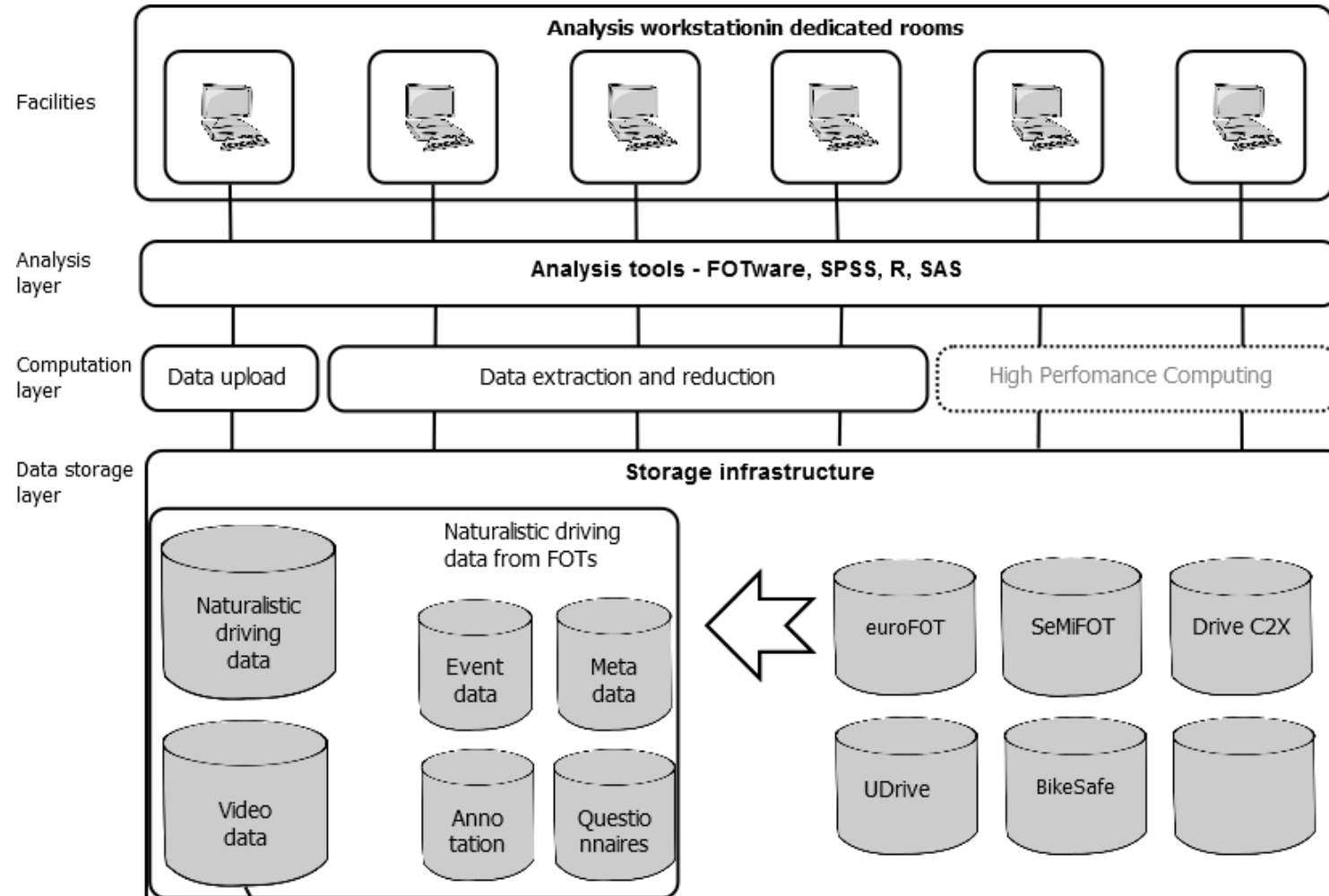


# Complete tool chain at SAFER

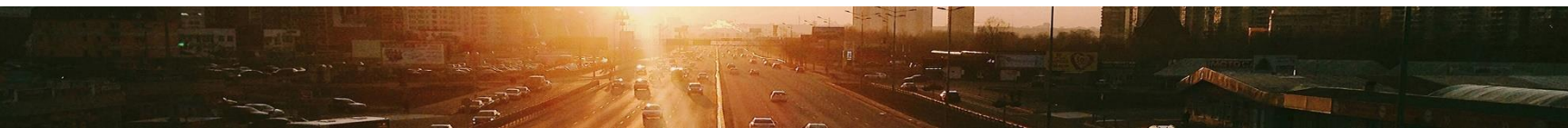
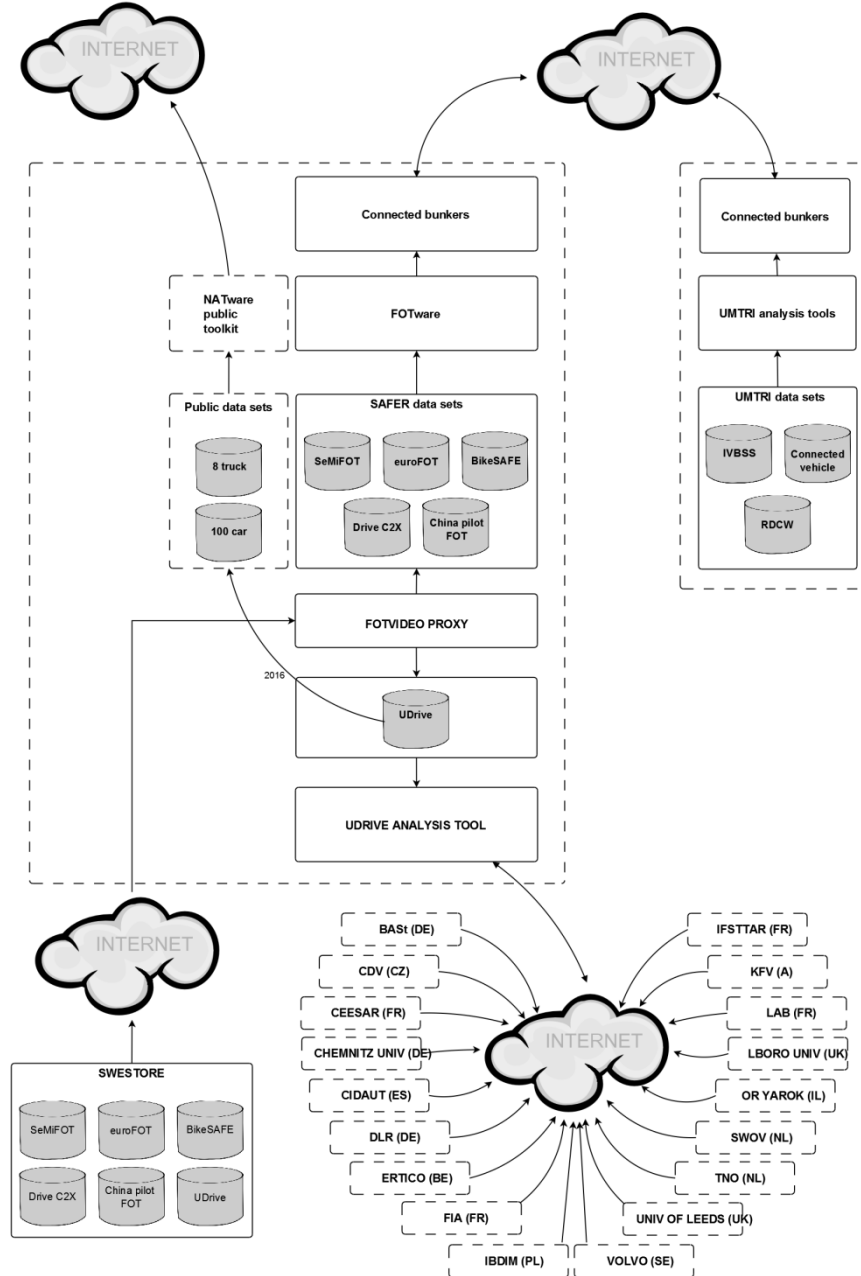
## Logger – data storage – analysis tools



# Data management

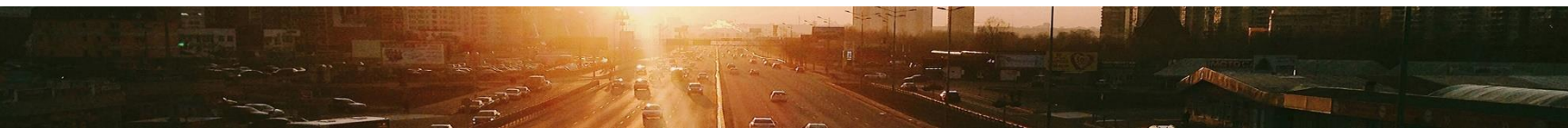
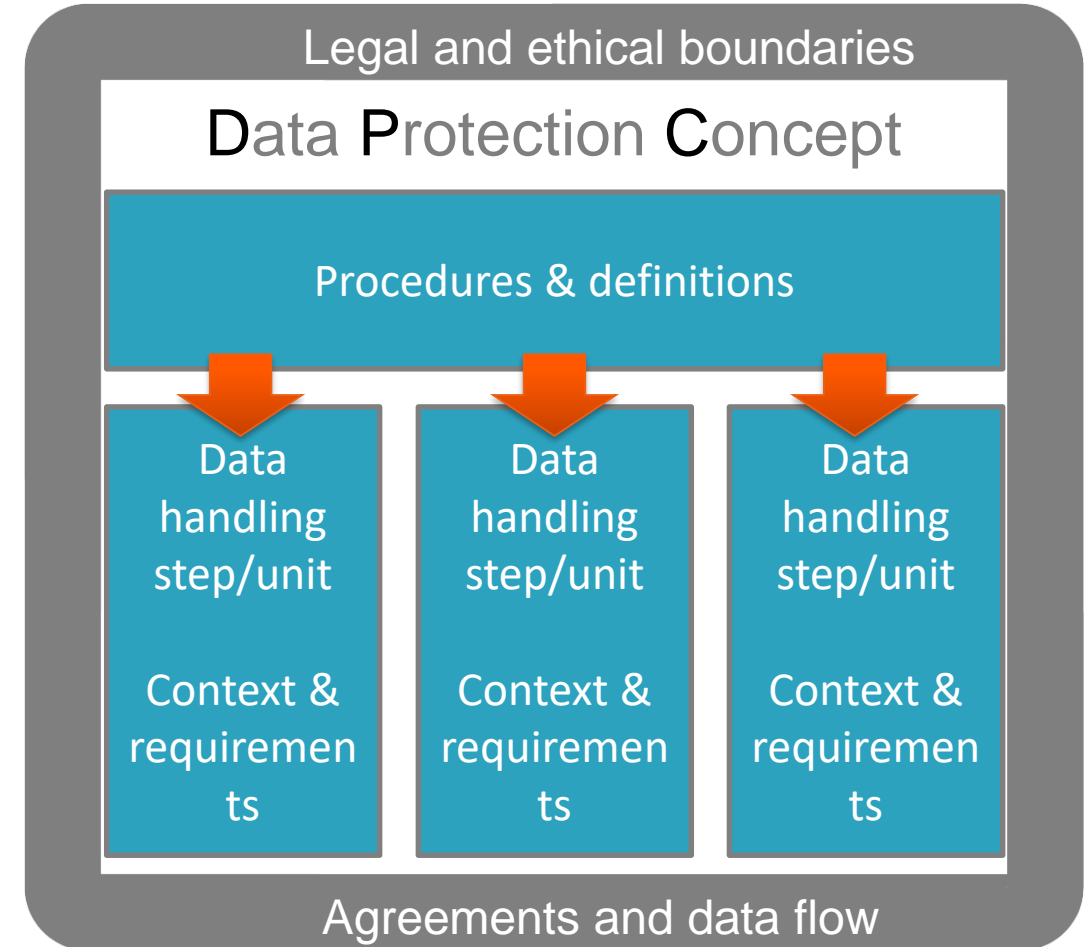
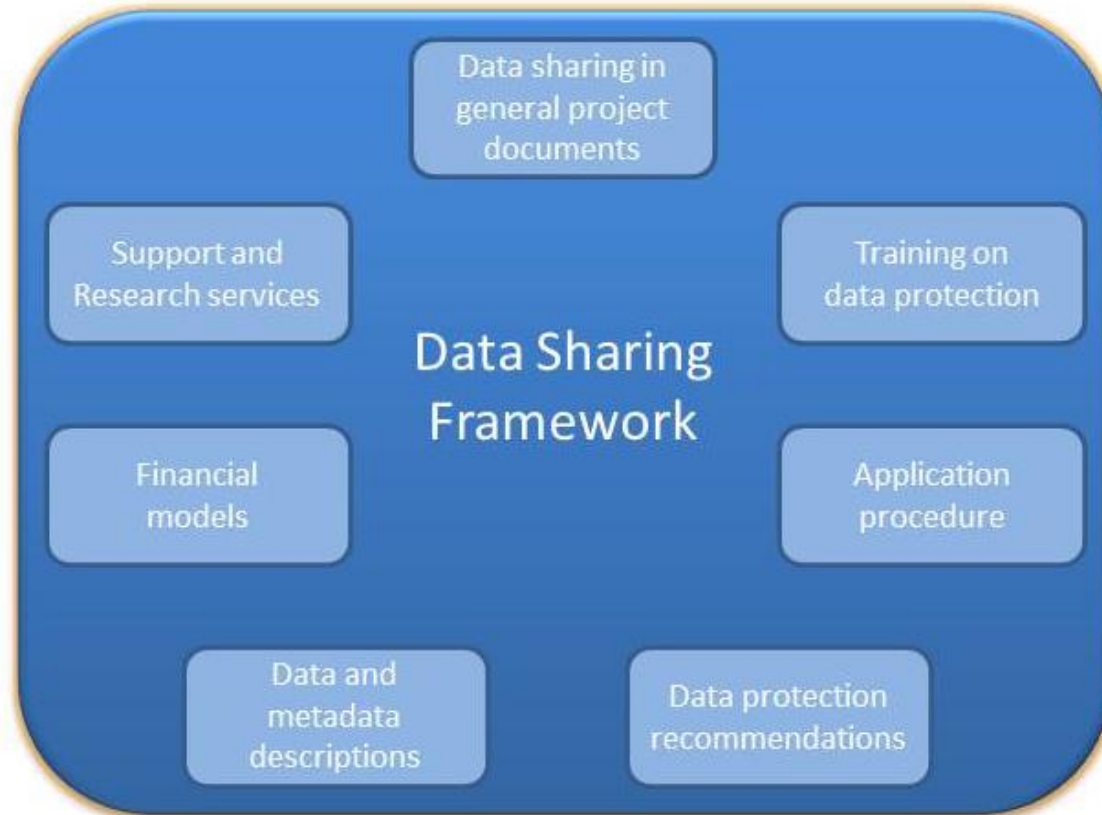


# SAFER ND platform overview





# Frameworks at SAFER



# Challenges

## Data collection

Storage capacity for video

Automated, regular upload of video data

Large investment (equipment, participants, operations)



## Storage and access

Data protection while sharing data\*

Anonymisation of personal data\*

Cost-effective and fast storage

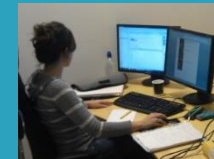


## Analysis

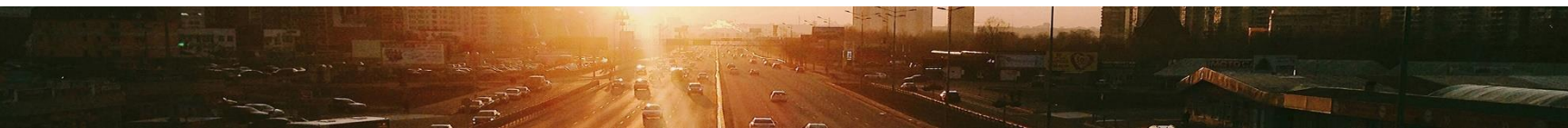
Automated feature extraction from video\*

Data mining

Visualisation



Data protection of personal data and IPR data (\*)



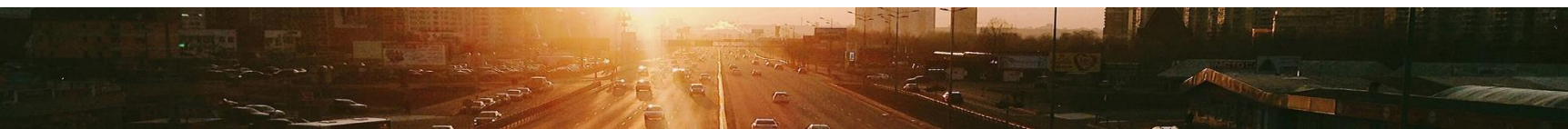
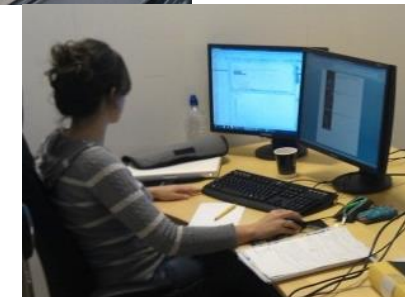
# Thank you for your attention!

**Contact info:**

**Helena Gellerman**

**[helena.gellerman@chalmers.se](mailto:helena.gellerman@chalmers.se)**

**+46 31 7721095**



**SAFER**  
VEHICLE AND TRAFFIC SAFETY CENTRE AT CHALMERS

