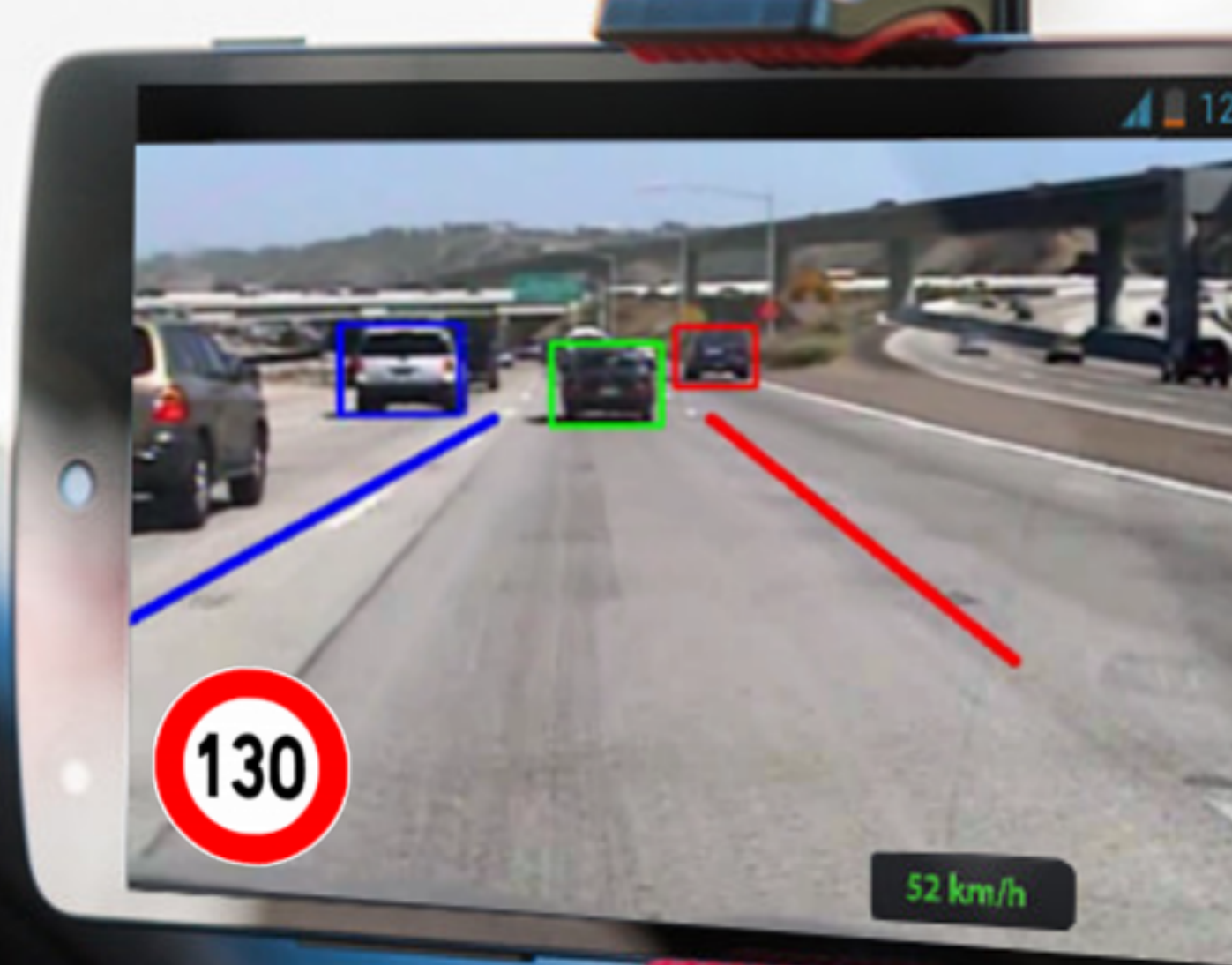A.D.A.M

12:50

Advanced Driving Assistance on a Mobile

A.D.A.M

- Driver assistance
  - Lane departure warning
  - Distance warning
  - Brakelight detection
  - Traffic signs

- Dashcam

A.D.A.M

- **Driver assistance**
  - **Lane departure warning**
  - **Distance warning**
  - **Brakelight detection**
  - **Traffic signs**

- **Dashcam**

Stack:
- Android
- Opencv
- Machine learning

Skills needed:
- Image processing
- Machine learning
- Interface design
- Coding for mobile

Data needed:
- Annotated training data

Performance:
- Perfect detection rate ?
- Low false alarm rate

Competitors:
- Built-in systems of higher-level cars
- Existing dash-cam-systems

Risks / Challenges:
- Can not implement/test all functions (-> stage)
- State regluations/privacy
- Auto-calibration of sensor
- Adverse weather/ illum.