

Mesterséges intelligencia a balesetmentes közlekedésért

Dr. Lóránd Balázs PhD – Mesterséges Intelligencia Fejlesztési Központ vezető



For a future without accidents Challenges





From Assisted to Automated Driving

Today at SAE3

'Vehicle supports the driver. Driver must monitor the system at all times.'

Assistant



Level 1
Assisted

Level 2Partial

Automation

Chauffeur



Level 3
Conditional
Automation

Chauffeur



Level 5*Full
Automation

Robot

Level 4*High
Automation

machine is fallback

Vehicle performs driving functions partially or fully.'

Source: SAE J3016



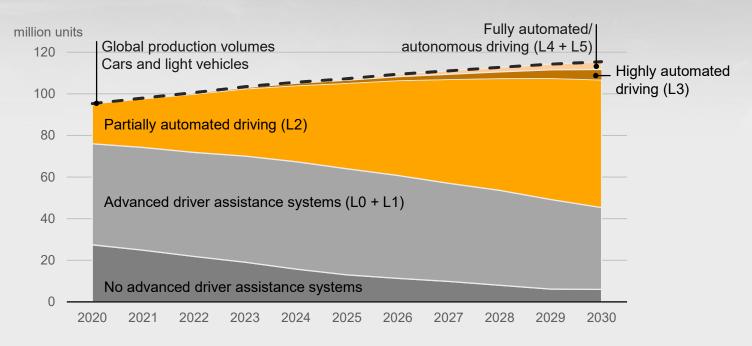
Level 0

Driver Only

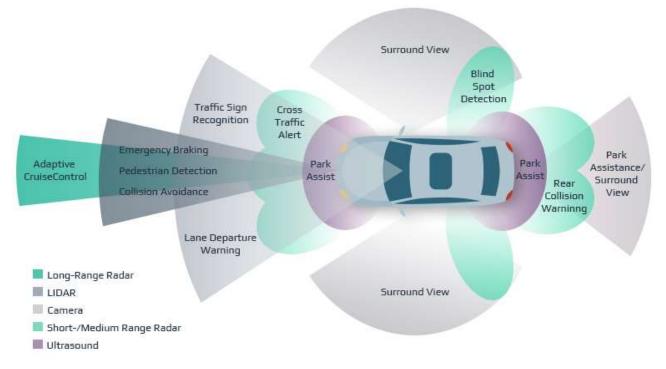
Driver Only

Five Steps to Autonomous Driving

Scenario: Market Development from Level 0 to Level 5



How autonomus car sees the world



RADAR

- + Precise distance measurement
- + Longitudinal velocity measurement
- + Robust in bad weather conditions
- + Good Night Performance
- Bad resolution in Lateral and Elevation

LIDAR

- + Precise distance measurement
- + Longitudinal velocity measurement
- Bad performance in bad weather conditions
- Bad resolution in Lateral and Elevation

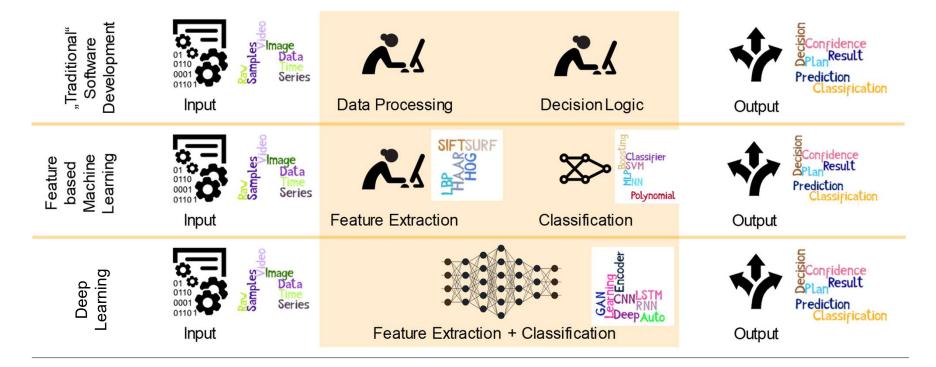
CAMERA

- + Specific object recognition
- + Good resolution in Lateral and Elevation
- No velocity measurement
- Bad night performance measurement
- Bad performance in bad weather conditions



Deep Learning

The technique to implement Artificial Intelligence





Project portfolio overview







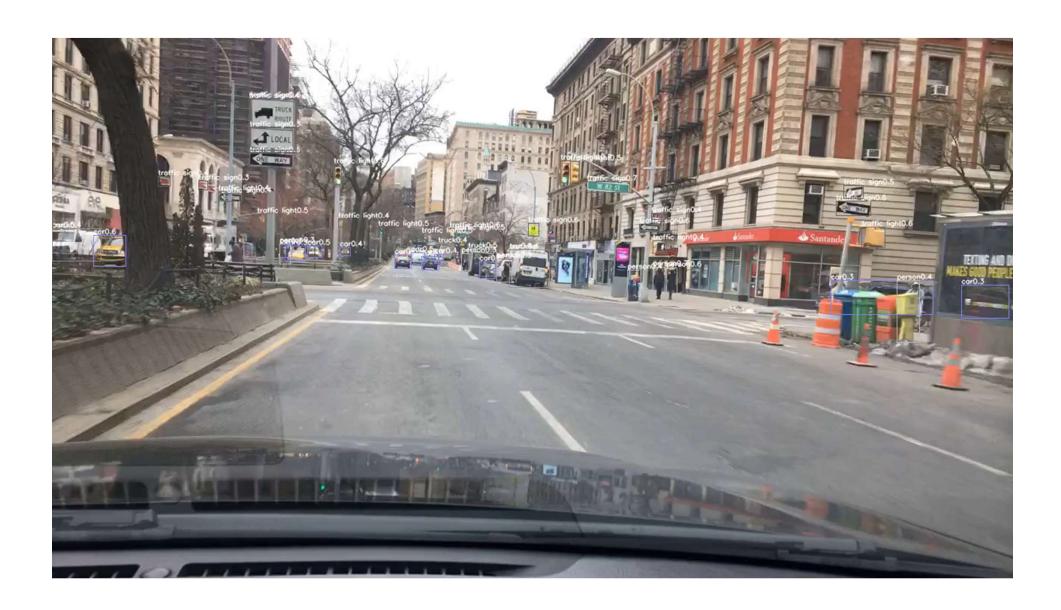












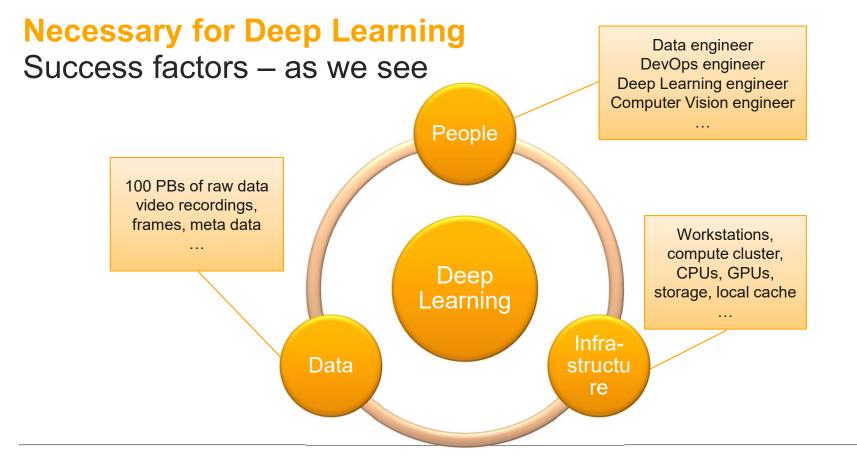
ADAS Budapest – Deep Learning Competence Centre



- Existing **automotive** environment
- Universities and research institutes
- Critical amount of people working on Al solution
- Strong product focus with end-to-end responsibilities
- Complete ecosystem available with enablers (data and infra)
- Different work culture for creativity with flexibility

Ontinental

"Made in Hungary" → "Invented in Hungary"





Contact us



fb.me/continentalhungary



www.linkedin.com/company/continental



www.continental-corporation.com/hu-hu



www.continental-jobs.com

