iMotion

iMotion
OpenGenesis

WEIJIN SONG
iMotion System & Safety

Smart Mobility for Everyone

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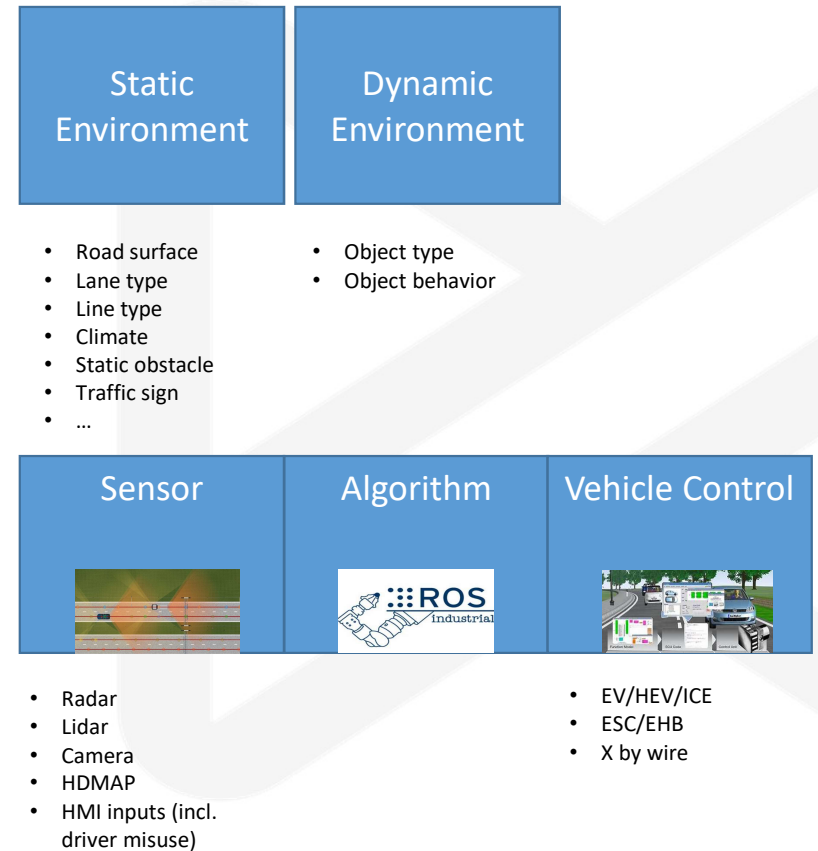# Possible spotlight project（GSLP）

- ## Requirement
  - Develop **a test matrix** for SOTIF&Fusa. verification usage
- ## Challenges
  - Complex impact factors
    - – Climate, shape of road/lane, driver behaviour, vehicle parameter, etc.,
  - Convergent the scope
    - – Filter impossible cases
    - – Concrete on useful cases
  - Modelling the hazards
    - – Environmental model
    - – Ego car model

Example of an Initial Starting Point of Development

Goal for the Finished Development

*Simulation

Static Environment	Dynamic Environment

- Road surface
- Lane type
- Line type
- Climate
- Static obstacle
- Traffic sign
- …

- Object type
- Object behavior

Sensor	Algorithm	Vehicle Control

- Radar
- Lidar
- Camera
- HDMAP
- HMI inputs (incl. driver misuse)

- EV/HEV/ICE
- ESC/EHB
- X by wire

THANKS!

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