Tactical Decision Making for Highly Automated Driving
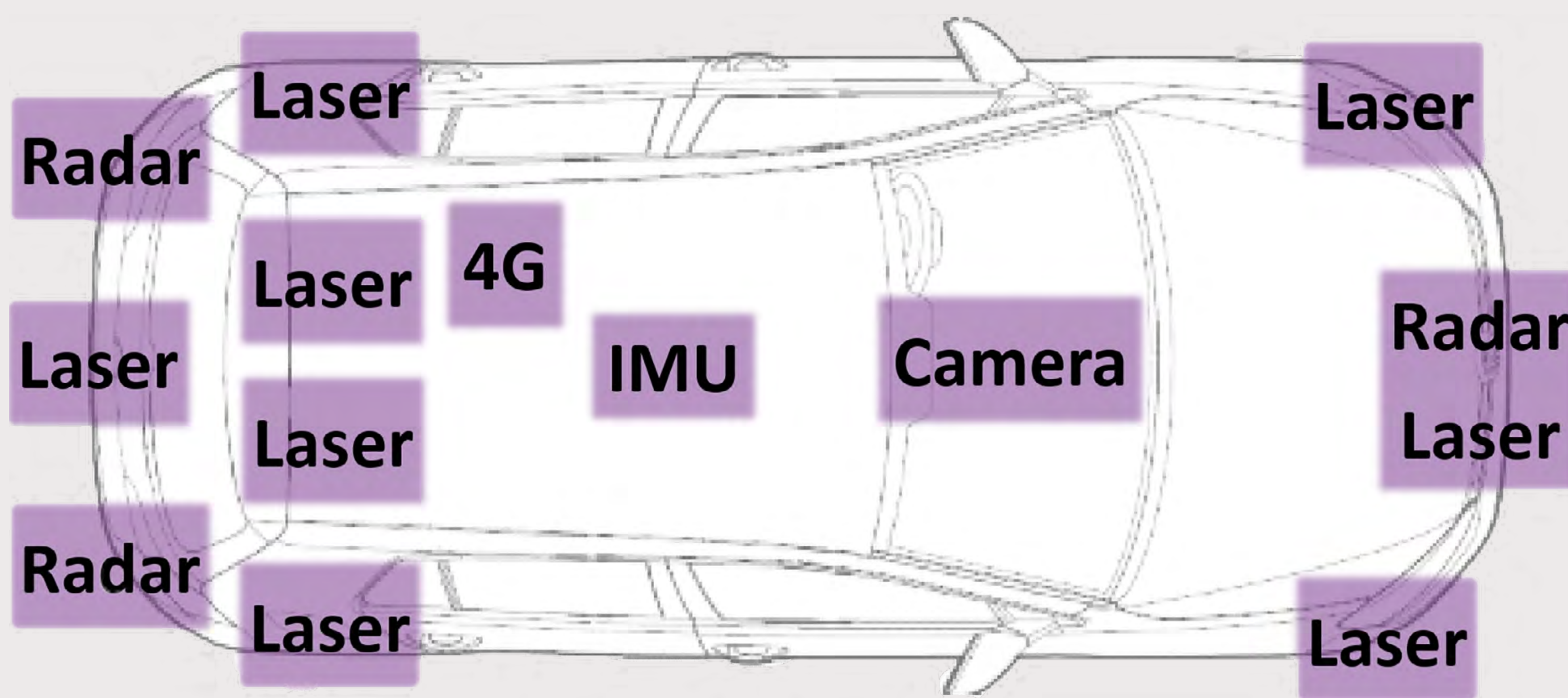
TEASY III

Automated Driving Architechture

Environment modelling → Situation analysis / prediction → Behavior planning → Trajectory planning → Controlling → Actuation
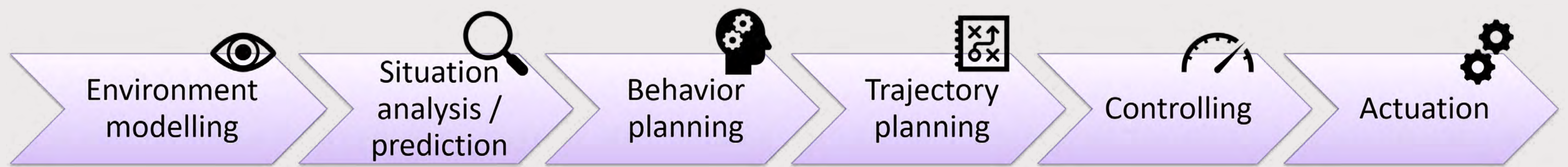
→ Complete automated driving architecture realized in experimental vehicle

Environment Sensing

Laser
Radar
Laser
4G
Laser
IMU
Camera
Laser
Laser
Radar
Laser
Radar
Laser
Laser

→ Collection and fusion of environment information

HMI-Concept

→ Visualization of driving task, special events and required driver interaction

Decision Making

→ Decision making and path planning based on current environment situation, strategic aspects and driving destination

Highway Pilot

Accessing Highway | Highway Junctions | Exiting Highway

→ Handling various situations in highway traffic

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