AUTOMATED DRIVING PROGRESSED
BY INTERNET OF THINGS

Unlocking the potential of the Internet of Things to take autonomous driving to the next level

OBJECTIVES

AUTOPilot brings together relevant knowledge and technology from the automotive and the IoT value chains in order to develop IoT-architectures and platforms which will bring automated driving towards a new dimension.

- Enhance the vehicle’s understanding of its environment with IoT sensors enabling safer highly automated driving
- Foster innovation in automotive, IoT and mobility services
- Use and evaluate advanced vehicle-to everything (V2X) connectivity technologies
- Involve users, public services, businesses to assess the IoT socio-economic benefits
- Contribute to the IoT standardisation and eco-system

www.autopilot-project.eu
info@autopilot-project.eu
@autopilot_eu

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**IoT platform**
interconnecting things based on existing and evolving interoperable information and communication technologies

**IoT eco-system**
of objects of the physical world, which are capable of being identified and integrated into communication networks

1. Objects provide data to IoT platform using IoT standardised protocols
2. Objects are created virtually in the IoT platform
3. AUTOPILOT IoT platform develops applications using data from IoT data sources
4. AUTOPILOT applications enable services that support autonomous driving

**How does it work?**

**IoT Platform**
- Interoperable
- Standardised
- Secure
- Open-access

**Driving modes**
- Automated valet parking
- Car sharing
- Highway pilot
- Platooning
- Urban driving

**Driving services**
- Automated driving route optimisation
- City Chauffeur services for tourists
- Driverless car rebalancing
- Dynamic eHorizon
- Electronic driving license
- HD maps for automated driving vehicles
- Real time car sharing
- Sixth sense driving

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**Autonomous driving**
progressed by IoT