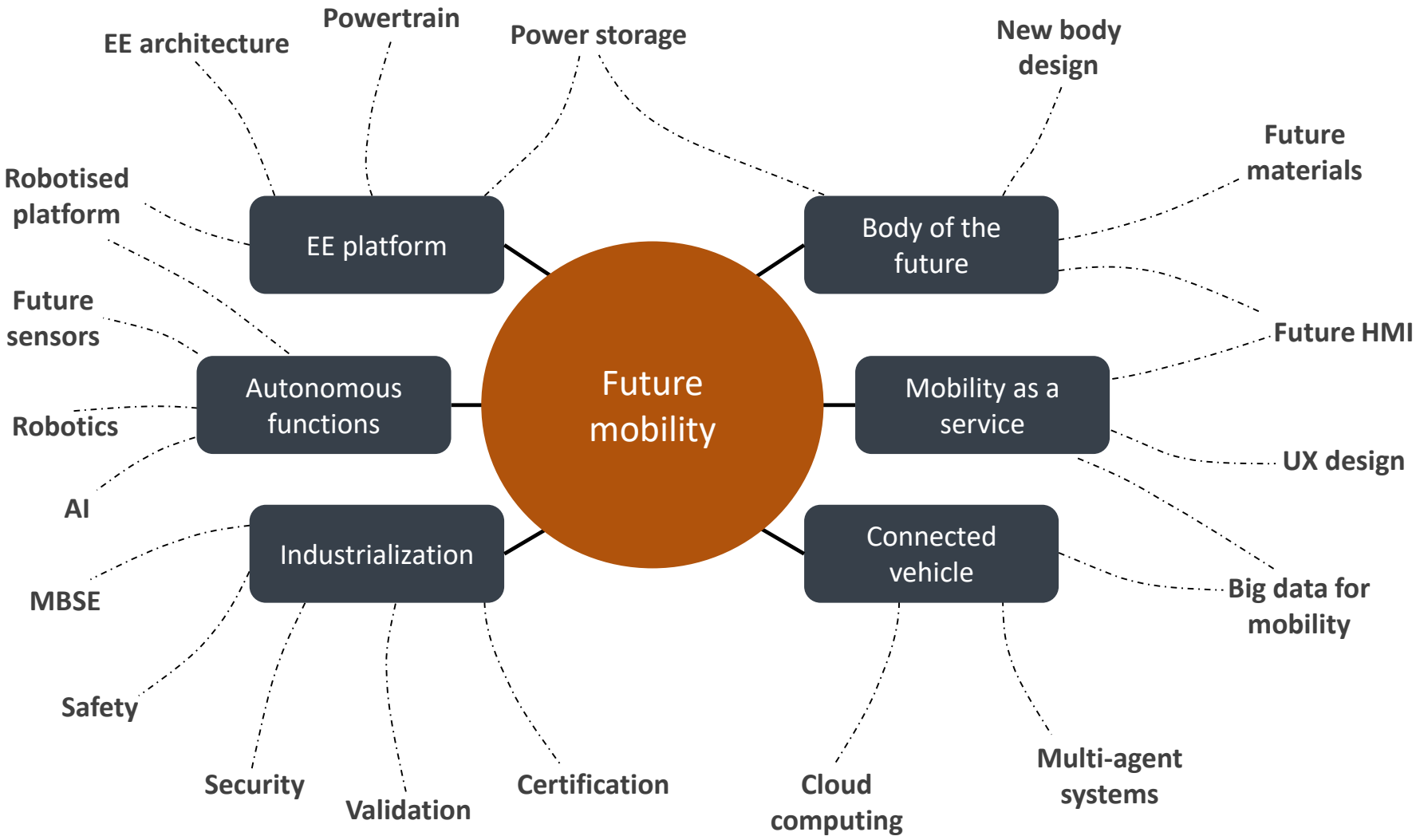
VALET project: how connected and automated driving will change urban parking ?

Proposition technique

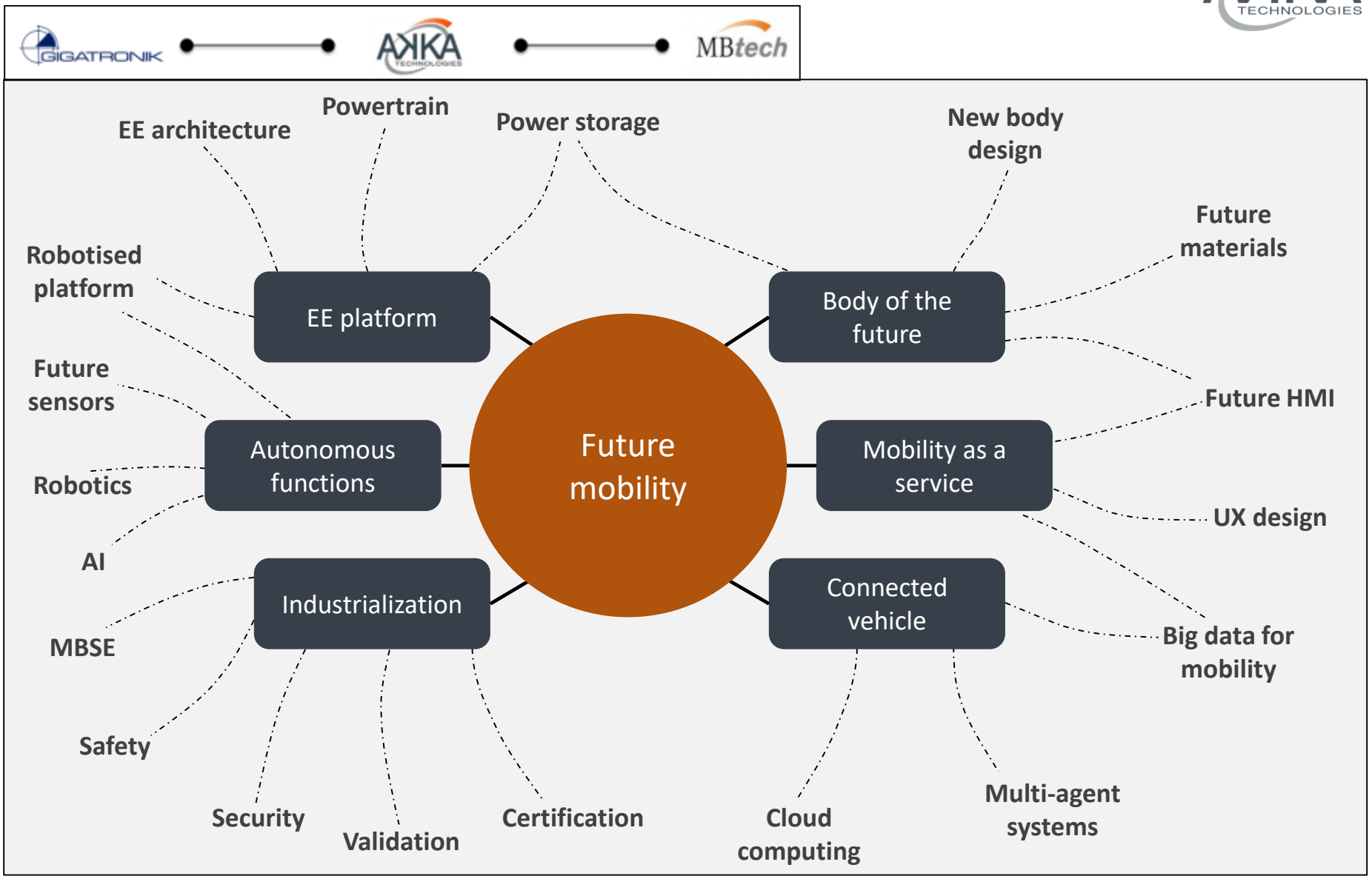
PASSION FOR TECHNOLOGIES

AKKA Vision on the future of mobility



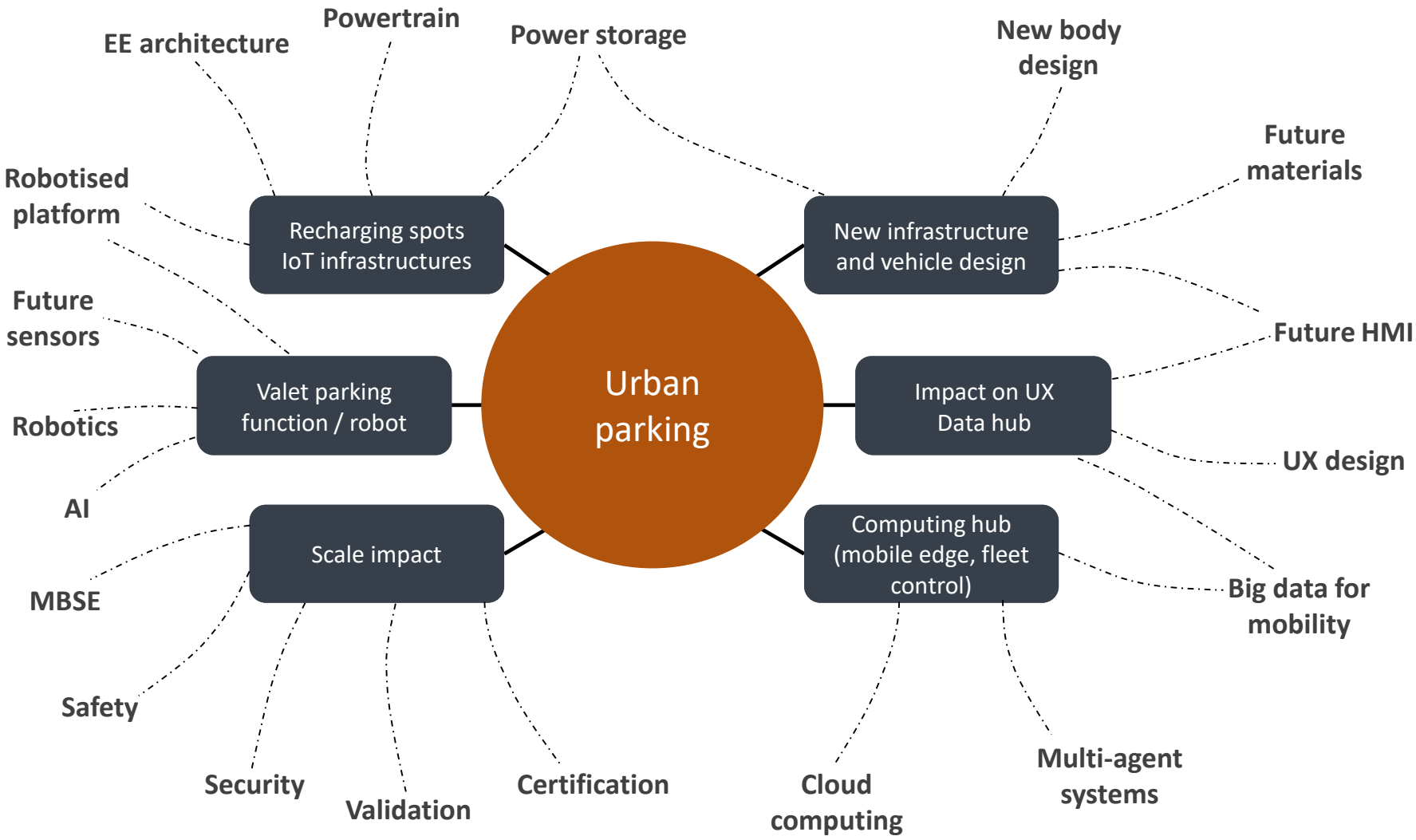
December 6, 2017

A GROUP EXPERTISE



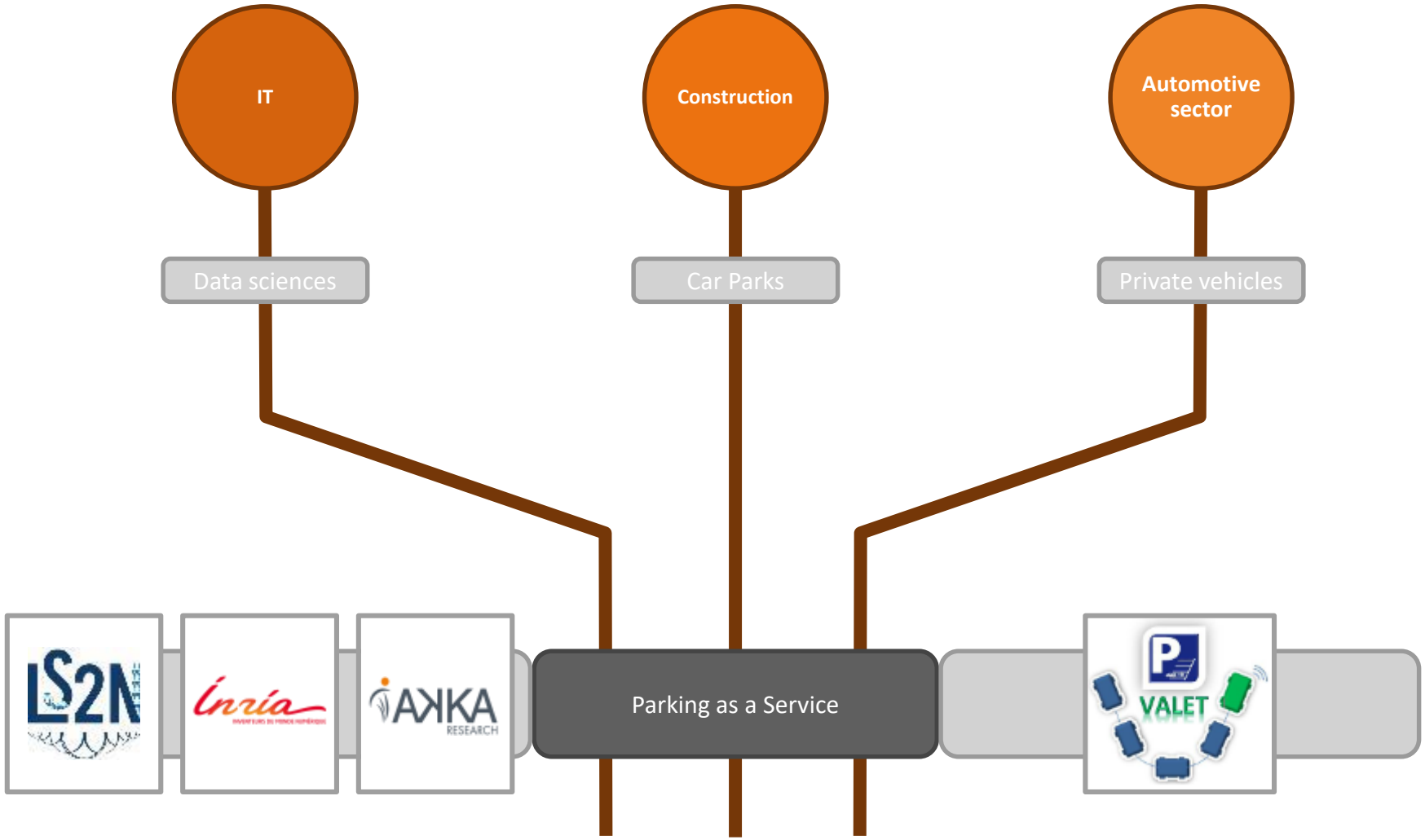
December 6, 2017

Urban parking: an incubator for urban mobility



December 6, 2017

Where IT & sector know-how meets



December 6, 2017

CARRIED OUT BY AKKA RESEARCH

RESEARCH PARTNERSHIP VALET

PROJET - CONTEXT

- For car-sharing systems, relocation strategies require more sophisticated techniques for their implementation on cities. As automatic relocation cannot be achieved for legal reasons, an alternative is to get a leader vehicle, driven by a human, which comes to pick up and drop off vehicles over the stations. VALET project proposes to endow autonomous vehicles with smart behaviors (cooperation, negotiation, socially acceptable movements) that better suit complex urban situations.

OBJECTIVES

- VALET project aims to find a solution through the development of an intelligent and efficient redistribution system that applies all cars including electric vehicles.

TASKS & REALIZATIONS

- Definition of global architecture and interaction between component of the solution
- Definition/conception and realization of operator MMI
- Realization of parking management system (including algorithm and MMI).

PARTNERSHIP

December 6, 2017

Future of mobility – AKKA's projects overview

	Detect and exchange with the infrastructure	Autonomous supervision	User friendly autonomous driving	Pre-industrialization of autonomous vehicles	Industrialization of Autonomous functions
AKKA's investments	3D reconstruction and segmentation Simultaneous localisation and mapping	Multimodal trajectography and control Machine learning and scene understanding	Autonomous vehicles HMI Accurate control	Safe embedded electronics MBSE for autonomous vehicles	VEDECOM Audi SystemX
	Functionnal Validation				
PhD	Ph D – Inria	Ph D – ENSTA		Ph D – KIT Ph D – CentraleSupélec	Mercedes BMW Volkswagen
Funded projects	AUTOPILOT VALET Volkswagen	AUTOPILOT RENAULT TRUCKS DEFENSE	CoCoVeA	ST Renault eTraCe LeddarTech Volkswagen	Porsche PSA Peugeot Citroën Continental Renault Valeo

December 6, 2017

Contact :
Guillaume Trehard, guillaume.trehard@akka.eu