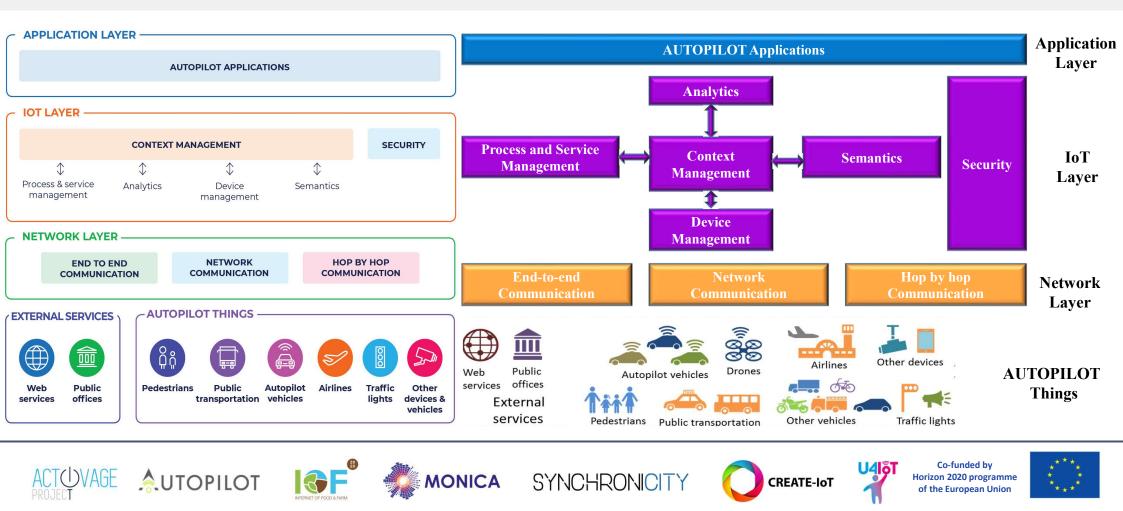
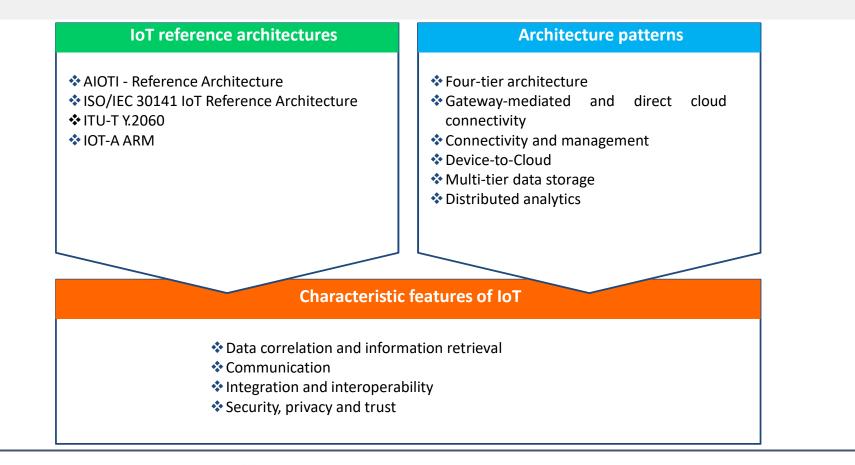


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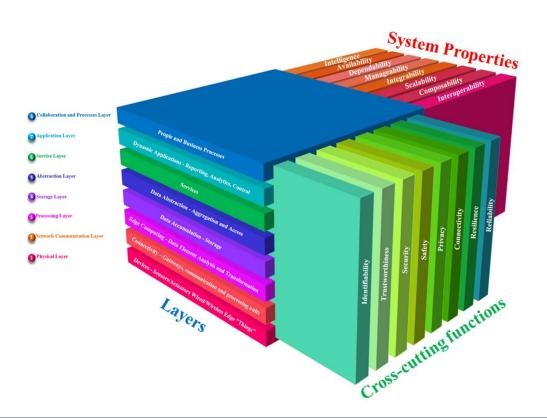
CREATE-IoT



Architecture Approach **Autopilot**

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- 3D Reference IoT Architecture
- Objectives:
 - Ensure that the model deals with
 - All the functional aspects, in particular "cross lavers"
 - More than the functional aspects
 - Explain how it can be mapped on other reference architectures
- Main aspects
 - A three dimensional model
 - Layers
 - Cross-cutting functions
 - Properties
 - Addressing more explicitly some expected properties • of the system













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8 Collab. & Proc. Layer	Cross pilot collaboration	Business system integration							
7 Application Layer	Visualization/ Dashboard	Development environment	Traffic light assist	Car rebalancing	Data Analytics				
6 Service Layer	Ocean inter Application enablement	face Watson Device Management	interface one Service Orchestration	M2M MCA Context Management	NGSI-LD Interworking	Identification	Authorization	Data Management	
5 Abstraction Layer	Common Data model	Event and action management							
4 Storage Layer	Storage/ Database								
³ Processing Layer	RSU processing	Local processing	Gateway processing						
2 Net. Comm. Layer	In-vehicle	V2V (ITS-G5)	V2I (ITS-G5)	V2C (LTE)	IoT comm. Protoc (BLE, 6LowPan, W				
1 Physical Layer	Vehicle sensors	Vehicle actuators	Infrastructure Cameras	IoT devices	Vehicle cameras				

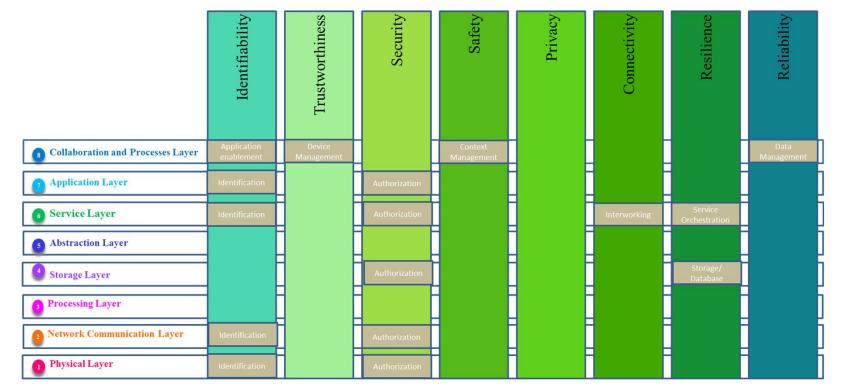
IoT Architectural Layers







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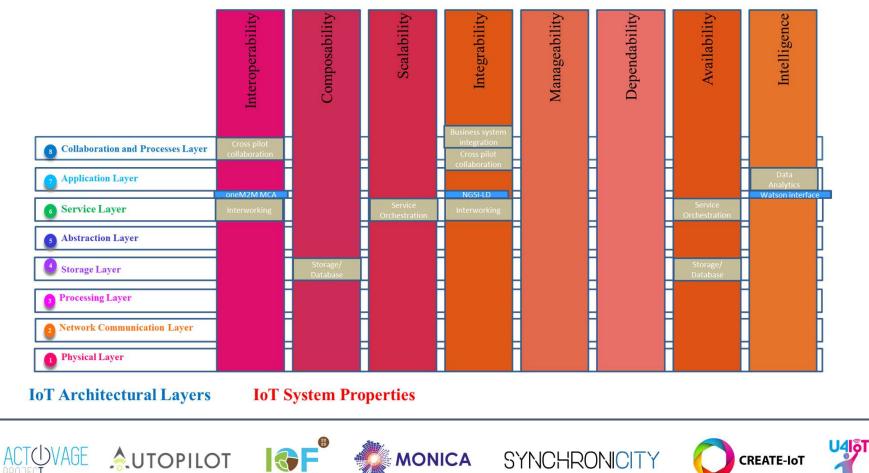


IoT Architectural Layers IoT Cross-cutting Functions





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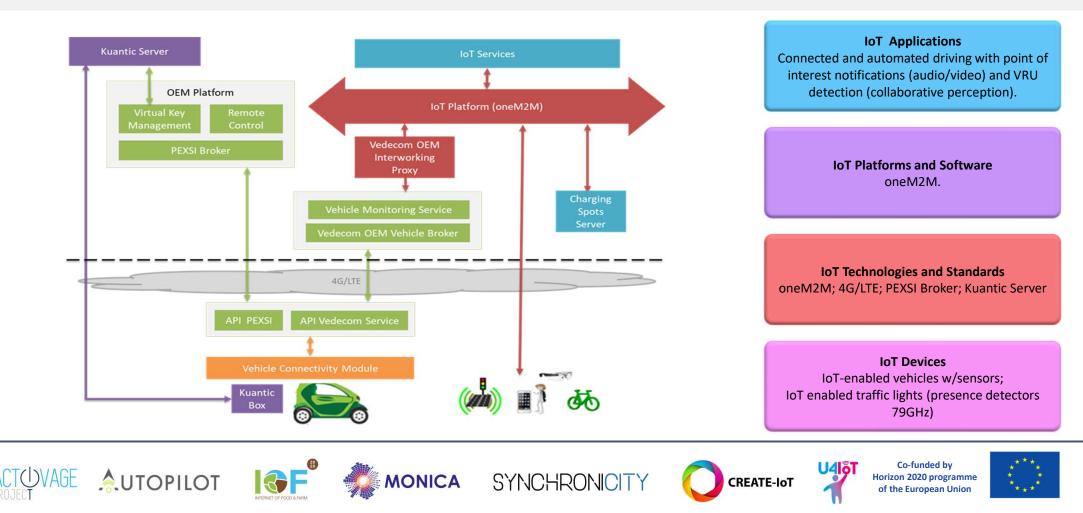
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Versailles pilot site - Urban driving



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