Functional view and Data flow

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Interaction between the different PoDIUM functions

Eunctional view **Risk Management** Platform Services • High level common architecture • Each UC is particularizing this Traffic Management and/or architecture based on its requirements **Digital Twin Cooperative Manoeuvre Planning** Three major blocks: Platform Services C-ITS Message and User Handling Software Integrity Sensors and Actors ٠ **Road Users** ٠ Users and Actors Sensors Connected Traffic Light Infrastructure-Conventional Connected (Sensors, based Road and Automated **VRU** Functions Road Vehicle Actors, User Emergency Controller) Detection Vehicle Functions Functions

PoDiUM

Platform Services





Road Users

4



Sensors and Actors







Data flow

Standard-oriented approach used by the project:

- Many data messages defined by ETSI standard
- In some cases, there is a need of extending the standard

Semantic interoperability aspects:

- Issues when we are proposing a deviation from the standard:
 - Motivation
 - Possible impact
 - Mitigation strategy

✓ Data View ⇒ common data management architecture

- Global picture of the management of information within the PoDIUM architecture
- Inspired by the previous functional view
- Each UC is particularizing this architecture based on its requirements





Data flow



PODIUM

Data flow



Thank you!





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