



This project is funded by
the European Union

Standardisation and certification needs

VRA – EC Workshop
Álvaro Arrúe – Applus IDIADA



Outputs on the VRA/AWG

- Topic list regarding standards and testing needs
 - On the scope of the AWG
 - Topic list to discuss during the trilateral meetings
- Main technical challenges identification
- Action points on the AWG objectives
 - Glossary of terms
 - Standard baseline
 - Testing tools and methodologies
 - Bottom up – Top down approach
- Recommendation for the EC – H2020 (2016-2017)
 - Identification of topics to be included in following calls

Challenges & Needs identified

- Standardisation
 - *Gap identification on current standards*
 - *Generic architecture / E/E Architecture*
 - *V2X extension*
 - *Cybersecurity at all levels*
 - *Scenario definition*
 - *Roadworthiness*
 - *Functional safety*
 - *Human factors*
- Certification
 - Basic technology certification: System, component, subcomponent level
 - V2X communications extension
 - Interoperability and vehicle interaction e.g. scenario based
 - Road capabilities for automation
 - Type approval (safety minimum performance)

Recommendations

- Lack of standardization at international level of procedures and requirements for vehicles
 - and infrastructures when relevant
 - Short term → Pilot licensing and testing
 - Middle/long term → Certification and type approval
- Challenges to be addressed in H2020
 1. *Feasibility of representation of the real world with a minimum set of scenarios*
 2. *Effects of automation in current regulatory type approval process*
 3. *Pilots to be deployed need to provide answers to new test procedures requirements*