

HARMONISED EUROPEAN SOLUTIONS FOR TESTING AUTOMATED ROAD TRANSPORT

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Outline

- ✓ HEADSTART project facts
- ✓ HEADSTART Consortium
- **✓** Overview
- ✓ Project's concept
- ✓ Project's objectives
- ✓ Work Package Structure
- ✓ Test sites
- ✓ Expected Technical Results up to M12
- ✓ Expected impact

- ✓ Cooperate with HEADSTART project
- ✓ HEADSTART Partners
- ✓ Stay connected with HEADSTART



HEADSTART project facts

- ✓ Call identifier: ART-01-2018
- ✓ Type: RIA
- ✓ Duration: 01.2019 12.2021 (36 months)
- ✓ Budget: 6M€
- ✓ Consortium: 17 partners
- ✓ Coordinator: Applus IDIADA, Mr. Álvaro Arrue, Project Manager

- ✓ Dissemination Manager: ICCS, Dr. Angelos Amditis, Research Director
- ✓ Website: https://www.headstartproject.eu
- ✓ Social media: У / HEADSTART_EU
 - in / HEADSTART-PROJECT
 - in / HEADSTART project
 - f/ @HeadstartEUproject

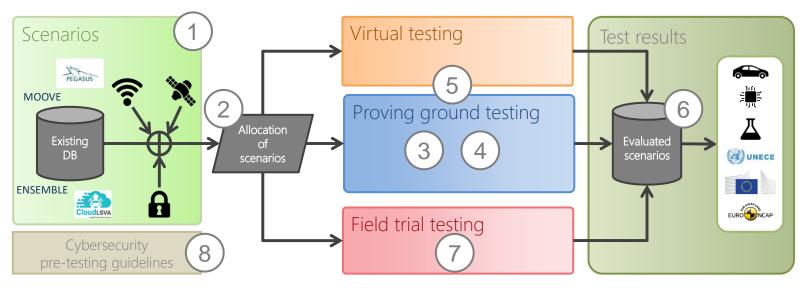


HEADSTART Consortium





Project's Concept



- Integration of positioning, communications and cybersecurity in CAD test scenarios
- Comprehensive procedure for the allocation of test cases per testing platform
- Selection criteria and specification for proving ground test scenarios taking into account criticality
- 4 Proving ground testing and evaluation

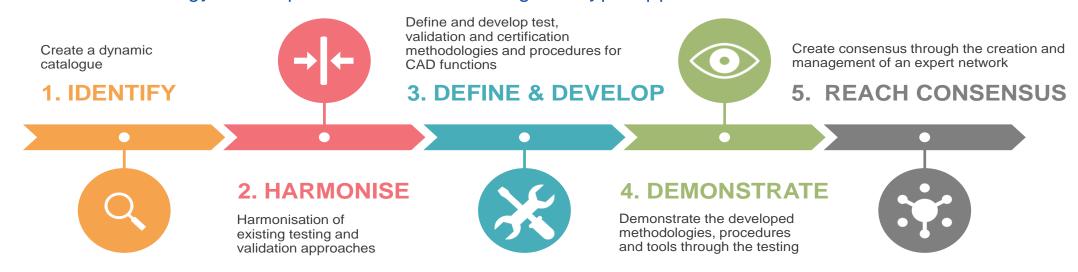
- 5 Correlation between simulation and proving ground results
- 6 Harmonised, open result compilation and sharing
- 7 Field trial test methodology description
- 8 Cyber-security principles and integration in the testing methodology



Project's Objectives

HEADSTART will define testing and validation procedures of CAD functions including:

- its key enabling technologies (i.e. communication, cyber-security, positioning)
- by cross-linking of all test instances such as simulation, proving ground and real world field tests
- to validate safety and security performance according to the needs of key user groups (technology developers, consumer testing and type approval)





Cooperate with HEADSTART project

EXPERT GROUP PARTICIPATION

- Join as associated partner and our expert group
- Join the discussion group of your interest:
 - Cyber-security
 - Communications (V2X)
 - Positioning
 - Scenario selection
 - Consumer testing (NCAP)
 - Type approval
- Provide needs and requirements and evaluate project (intermediate) results

JOINT TESTING ACTION

- ✓ Joint cooperation between both projects for testing validation and certification purposes
- ✓ Align your project with the harmonized methodology and tools developed within HEADSTART
- ✓ Become one of our use cases!

Please let us know about your interest and join our distribution list.

Website: www.headstart-project.eu
Contact: info@headstart-project.eu



HEADSTART status update

- ✓ Available to be downloaded in <u>www.headstart-project.eu</u>
 - D1.1: State of innovation of existing initiatives and gap analysis
 - D1.2: Stakeholders and user group needs
 - D1.3: Technical and functional requirements for KETs
 - D1.4: Functional requirements of selected use cases
 - D2.1: Common methodology for test, validation and certification
 - D2.2: Criteria to choose optimal scenarios and tests for each KET

✓ HEADSTART Week

- WC20: 11/05 15/05: A dedicated webinar + discussion every day from 10-11:30 CET
- WB1: Methodology; WB2: Truck platooning; WB3: Traffic Jam assist; WB4: Cybersecurity
- ✓ International cooperation
 - Engage with US and Japan projects in a Project-2-project basis
 - Already discussing interaction with European initiatives





- ✓ HEADSTART project is organizing a week full of webinars, starting from Monday, 11/05 up to Friday, 15/05.
- ✓ These webinars will be interactive sessions engaging participants with questions and discussions.



- ✓ All participants will have the opportunity to discuss and find out more about:
 - HEADSTART methodology, which has harmonized different European initiatives and included Automated Driving key enabling technologies;
 - HEADSTART selected use cases (Truck platooning and Traffic Jam Chauffeur);
 - How the validation methodology will be applied;
 - How to validate the AD driving function;
 - How the KETs will be handled;
 - Cybersecurity as a transversal topic which has a great impact in CAD functions validation



✓ 4 Webinars: Different days for your

Event/venue

convenience!

Monday

Overall methodology and processes for testing and validation of automated road vehicles

Monday, 11/05/2020
10:00 - 11:30 CET

Tuesday



Thursday



Friday



22/5/2020



- ✓ Webinars are free and independent.
- ✓ This means that the participants are able to attend the webinars they prefer.
- ✓ As HEADSTART, our recommendation is to attend all webinars, so as to have a full overview of the project.
- ✓ To register and find out more information about each webinar, please visit our webpage

www.headstart-project.eu/headstart-wee



Stay connected with HEADSTART

✓ Visit HEADSTART website

www.headstart-project.eu

✓ Follow our Social Media:

- in HEADSTART-PROJECT
- in HEADSTART project (Group)
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✓ Reach us via an e-mail:

<u>info@headstart-project.eu</u>

✓ Sign up to our newsletter:

https://lists.iccs.gr/wws/subscribe/headstar
t-news

✓ Get in touch with our partners



Thank you!

Any questions?

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Potential cooperation

✓ LEVEL 1:

- Information sharing
- Cross invitation to webinars and events

✓ LEVEL 2:

- Joint webinars or dissemination events
- Joint deliverables writing / reviews / contribution

✓ LEVEL 3:

- Distribution of results data (taking into account Data Privacy constraints)
- Joint research activities
- Joint testing activities
- Other?