



HARMONISED EUROPEAN SOLUTIONS  
FOR TESTING AUTOMATED ROAD TRANSPORT

The HEADSTART Week Wrap Up

Álvaro Arrúe

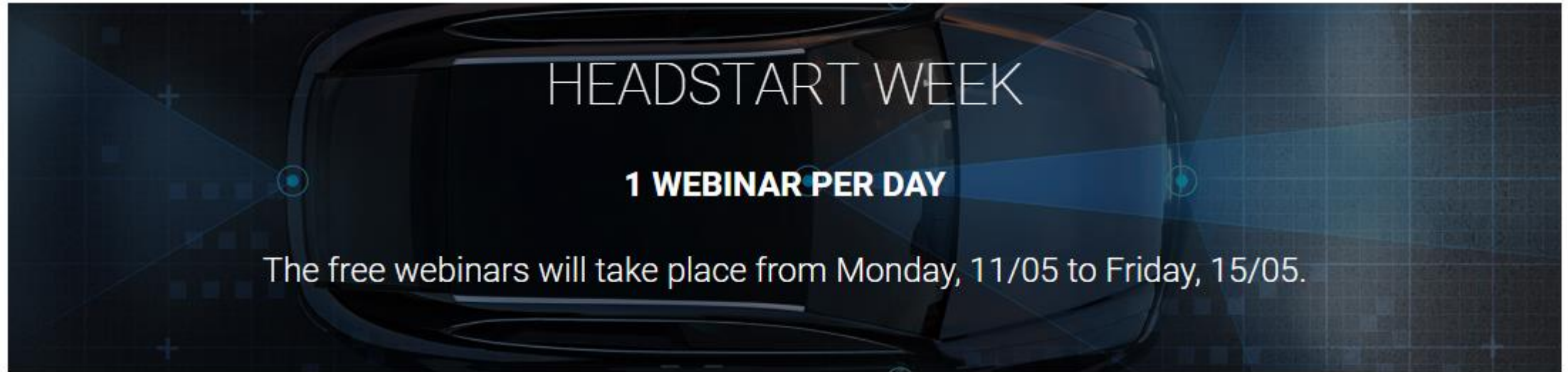
Applus IDIADA



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824309.

Applus<sup>+</sup>  
IDIADA

# The HEADSTART week!



## ✓ Facts and figures:

- 4 sessions
- 220 registrants
- 180 attendees
- 25 questions made
- 24 polls
- 436 poll votes

# The HEADSTART week

- ✓ 4 Webinars: Different days for your convenience

Monday

A promotional card for a Monday webinar. It features a background image of hands typing on a laptop keyboard with a blue and white digital grid overlay. The word "WEBINAR" is written in large, white, bold letters across the center. On the left side, there is a white text box containing the following information:

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

Monday, 11/05/2020

10:00 - 11:30 CET

Tuesday

A promotional card for a Tuesday webinar. It features a background image of hands typing on a laptop keyboard with a blue and white digital grid overlay. The word "WEBINAR" is written in large, white, bold letters across the center. On the left side, there is a white text box containing the following information:

HEADSTART validation methodology applied for the truck platooning use case

Tuesday, 12/05/2020

10:00 - 11:30 CET

Thursday

A promotional card for a Thursday webinar. It features a background image of hands typing on a laptop keyboard with a blue and white digital grid overlay. The word "WEBINAR" is written in large, white, bold letters across the center. On the left side, there is a white text box containing the following information:

Validation of use case: Traffic jam chauffeur

Thursday, 14/05/2020

10:00 - 11:30 CET

Friday

A promotional card for a Friday webinar. It features a background image of hands typing on a laptop keyboard with a blue and white digital grid overlay. The word "WEBINAR" is written in large, white, bold letters across the center. On the left side, there is a white text box containing the following information:

Cybersecurity validation in automated driving

Friday, 15/05/2020

10:00 - 11:30 CET

- ✓ All webinars will be available online very soon!

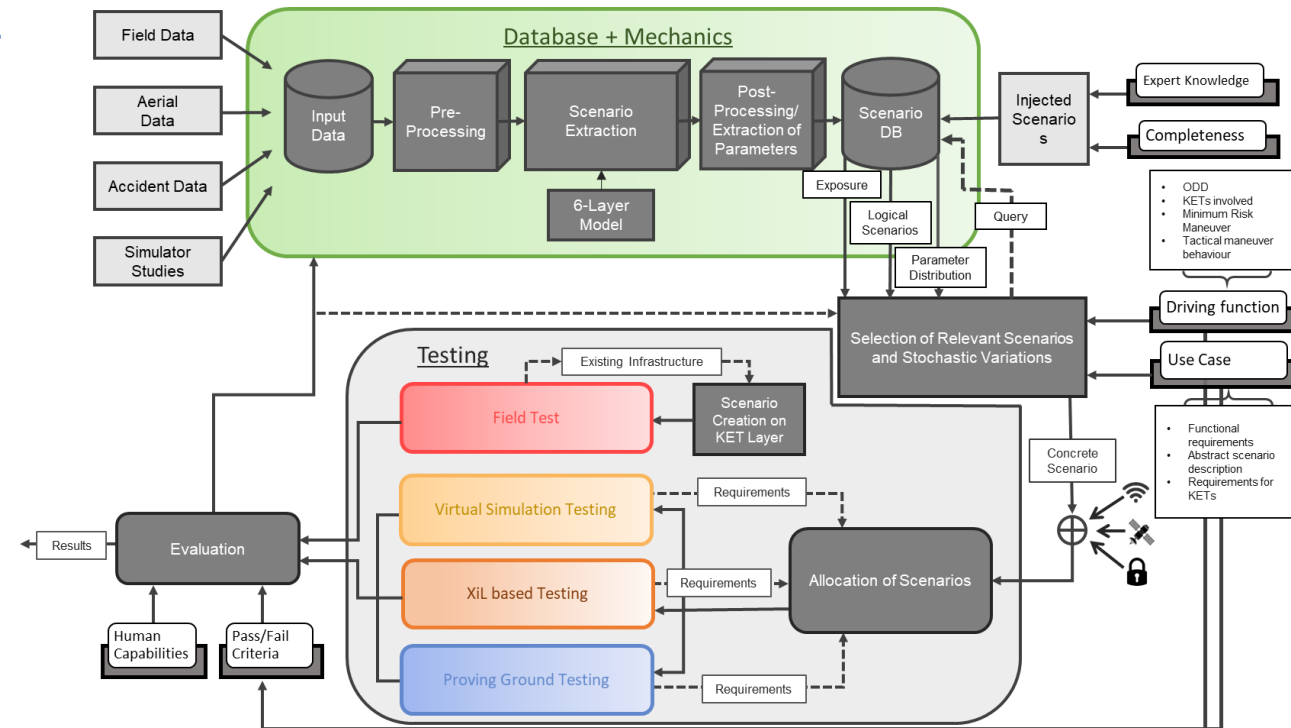
# HEADSTART Methodology webinar

## ✓ General presentation of the overall methodology

- Harmonization of existing state-of-the-art
- Building blocks
- High level process details

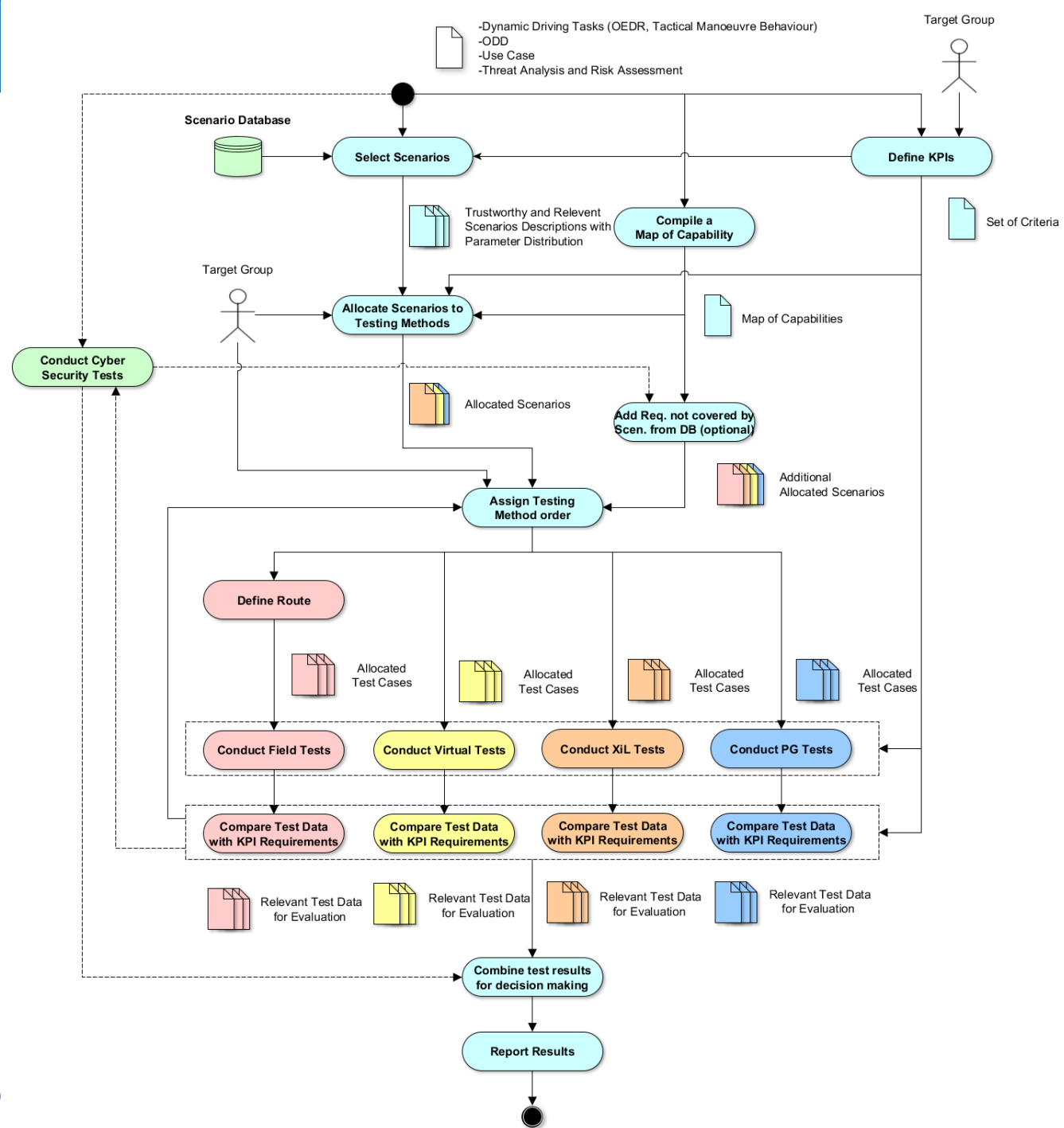
## ✓ Content of the presentation:

- Overall Methodology
- Scenario Selection and Relevance Metrics
- Allocation of Scenarios
- Testing



# Summary

- ✓ The HEADSTART Methodology is a living process
  - Need for expert input to refine the methodology
- ✓ Keep the Methodology harmonized and applicable for different databases
- ✓ More detailed process will be introduced in the next presentation
- ✓ More information in D2.1 and D2.2
  - Soon available in our webpage!!!



# Use case webinars

## Truck platooning & Traffic jam chauffeur

- ✓ Webinar per use case (May 12 & May 14: 10:00-11:30):
  - *Inter-active* session of 90min to gather external expert feedback via raised questions and open Q&A via slido, with focus on specific use case and HEADSTART KETs Communication V2X and Positioning (GNSS).
  - Feedback will be integrated in HEADSTART deliverable: *D2.3 Assessment method for each of the use cases defined.*
- ✓ Content of presentations:
  - Introduction HEADSTART project & HEADSTART methodology in a nutshell
  - Introduction use case: Truck platooning
  - HEADSTART method application to use case: Truck platooning / Traffic jam chauffeur
    - Scenario selection and allocation
    - Testing of scenarios
    - Evaluation of test results
  - Wrap-up

# Use case webinar: Truck platooning

- ✓ Moderated and presented by Álvaro Arrúe, Sjef van Montfort & Jacco van de Sluis
- ✓ Figures:
  - 35+ people attending
  - 15-20 people answering raised questions and ~5 open questions answered
- ✓ Valuable feedback received on
  - Feasibility and added value of scenario based assessment for truck platooning
  - Required content and format of database (strong push for clear format)
  - Relevance and need of different types of testing for truck platooning, in particular XiL testing
  - Relevant stakeholders to be considered
  - Specific implementation requirements on truck platooning (multi-brand vs. single brand, biggest challenge)

# Use case webinar: Traffic jam chauffeur

- ✓ Moderated and presented by Xavier Sellart & Álvaro Arrúe
- ✓ Figures
  - 40+ participants ~ 20 aprox. Participating in the polls
  - 8 questions answered
- ✓ Valuable feedback received on
  - Highlight of SAE level 2 importance for this use case
  - KETs: Communications and positioning as most relevant ones
  - DBs should be regional and for all type of vehicles and SAE levels
  - Virtual Testing identified as most relevant test instance
  - Prioritisation of validation objectives: Virtual environment | Perception
  - TJC challenges: Liability > Type approval > Consumer acceptance > Business case



# Cybersecurity webinar

## ✓ Objective:

- Show the HEADSTART approach to cybersecurity and engage with the community to grab their opinions and needs

## ✓ Lead by

- Joaquim Castella & Michael Schmeja (Virtual Vehicle)

## ✓ Content of presentations:

- Introduction webinar
- Introduction of HEADSTART project
- Introduction of cybersecurity role in the HEADSTART project
- Presentation of the cybersecurity particularities and integration in HEADSTART method
- Cybersecurity coverage and integration in HEADSTART process
- Next steps, cybersecurity framework refinement and testing tool for HEADSTRAT validation
- Open questions

# Cybersecurity webinar

- ✓ Moderated and presented by Joaquim Castella & Michael Schmeja (Virtual Vehicle)
  
- ✓ Figures
  - 30+ participants ~ 10 aprox. Participating in the polls
  - Several questions answered
  
- ✓ Valuable feedback received on
  - Overview of the audience insights into cybersecurity
  - Several comments and examples given on cybersecurity given by the audience

✓ And if you want to know more about HEADSTART....

# 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](http://www.headstart-project.eu)

Contact: [info@headstart-project.eu](mailto:info@headstart-project.eu)

# Stay connected with HEADSTART

- ✓ Visit HEADSTART website

[www.headstart-project.eu](http://www.headstart-project.eu)

- ✓ Follow our Social Media:

 [@HEADSTART\\_EU](https://twitter.com/HEADSTART_EU)

 HEADSTART-PROJECT

 HEADSTART project (Group)

 @HeadstartEUproject

- ✓ Reach us via an e-mail:

[info@headstart-project.eu](mailto:info@headstart-project.eu)

- ✓ Sign up to our newsletter:

<https://lists.iccs.gr/www/subscribe/headstart-news>

- ✓ Get in touch with our partners



# HEADSTART

---

Thank you!

---

*Any questions?*

**Álvaro Arrúe**

Project Manager, Connected and automated driving

[Alvaro.arrue@idiada.com](mailto:Alvaro.arrue@idiada.com)

**Applus<sup>+</sup>**  
**IDIADA**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824309.