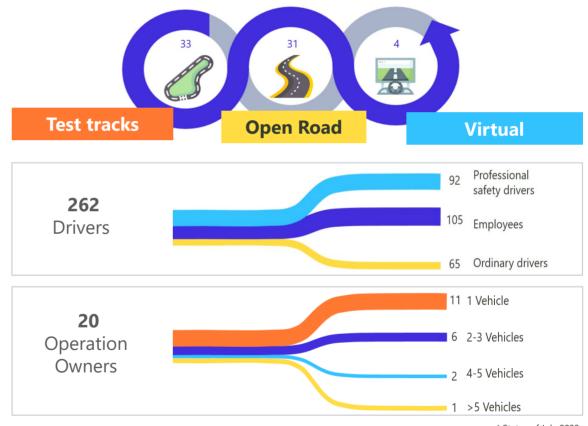




## **Location & test environment Vehicles & Drivers**

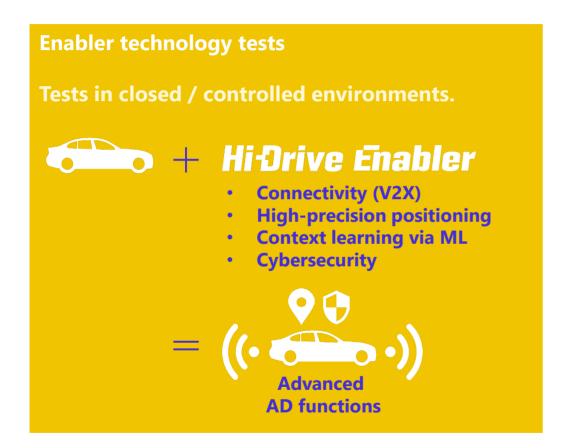




\* Status of July 2022



## **Testing**



#### **Pilot studies**

**Test on public road** incl. manual driving, automated driving with enabler on/off)



#### **User focused studies**

**Different user oriented studies**Simulator, test track, public roads, etc.



#### **Simulation**

Impact Assessment studies and Simulation based enabler tests.



# **UC/Test scenarios catalogue (publicly available)**

Pool of Hi-Drive ADF instances

Prototype vehicle owners 20

ADF instances 29



Pool of UCs and associated test scenarios

D3.1 listing

UCs **71** 

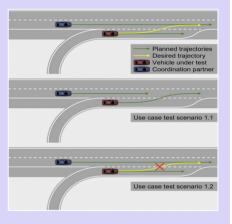
Test scenarios **156** 

Grouping and indexing Hi-Drive UC / Test scenario catalogue

UC groups 18

UCs **40** 

Test scenarios 113



- Triggering condition
- Flow of events w.r.t the subject vehicle
- Alternative flow (if applicable)



# **UC** catalogue

ADF type	UC clusters	Number of UCs generated	Number of TS generated	Supported by 'x' ADF instances
<b>Motorway</b> (and peri-urban Motorway)	Cooperative overtaking	1	2	1
	Cooperative lane management in merging or diverging areas	6	12	5
	Cooperative hazard/dynamic signage awareness	2	9	4
	Special or temporary road infra crossing (tunnel, road construction site)	2	6	3
	Lane management under nominal ODD conditions	2	6	6
	Lane Keeping under challenging ODD conditions	3	7	4
	Lane merging/diverging (non-cooperative)	3	9	5
	Motorway-Total	19	51	
Urban	Cooperative non-signalized intersection transit	2	6	5
	Cooperative signalized intersection transit	3	10	6
	Cooperative traffic/hazard awareness	2	5	2
	Lane Keeping under nominal ODD conditions	3	9	3
	Lane Keeping under challenging ODD conditions	2	6	5
	Non-signalized intersection crossing	2	10	5
	VRU interaction zone (eHMI)	2	2	1
	Urban-Total	16	48	
Rural	Urban to rural transition	1	3	1
	Cooperative overtaking via V2V	1	2	1
	Arctic uninterrupted driving against specific conditions	1	5	1
	Rural-Total	3	10	
Parking	Automated Valet Parking	2	4	3
	Parking-Total	2	4	
	Total	40	113	



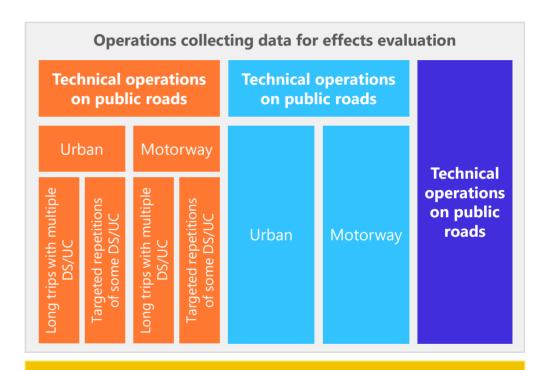
# **Challenging OD conditions targeted by the UCs**





## **Steps towards Hi-Drive Operations & Grouping**

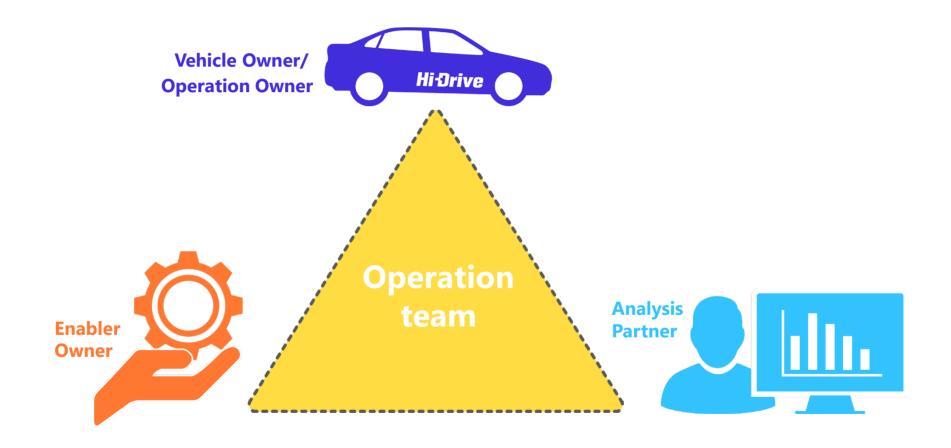
- Enablers' integration
- Vehicle testing and data logging tools design
- Design data engineering tools and database structures to manage and process data from the experiments.
- Test preparation activities according to Experimental guidelines
  - Test environment considerations
  - Baseline/Treatment
  - Desired quantity of data + repetitions
  - Drivers selection / questionnaires
- Collect data during the tests and make this data available to analysis teams
- Each vehicle owner deploys a set of prototype vehicles and covers specific technology enablers, use cases, test environments contributing to a set of validation objectives as determined by the RQs of the project.



Technical operations collecting data for technology development only

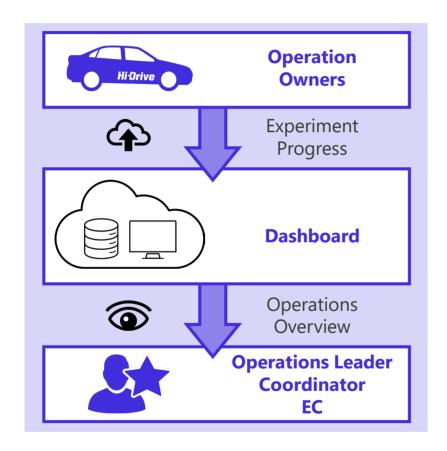


# **Operations triangular teams**

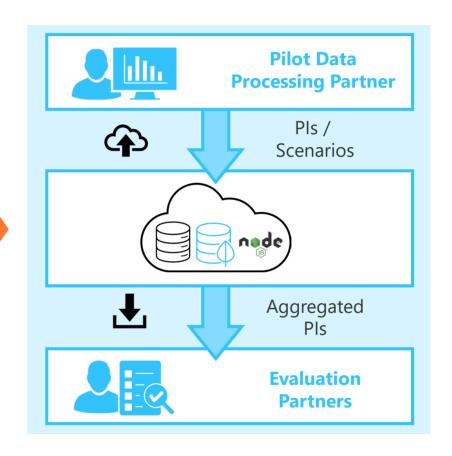




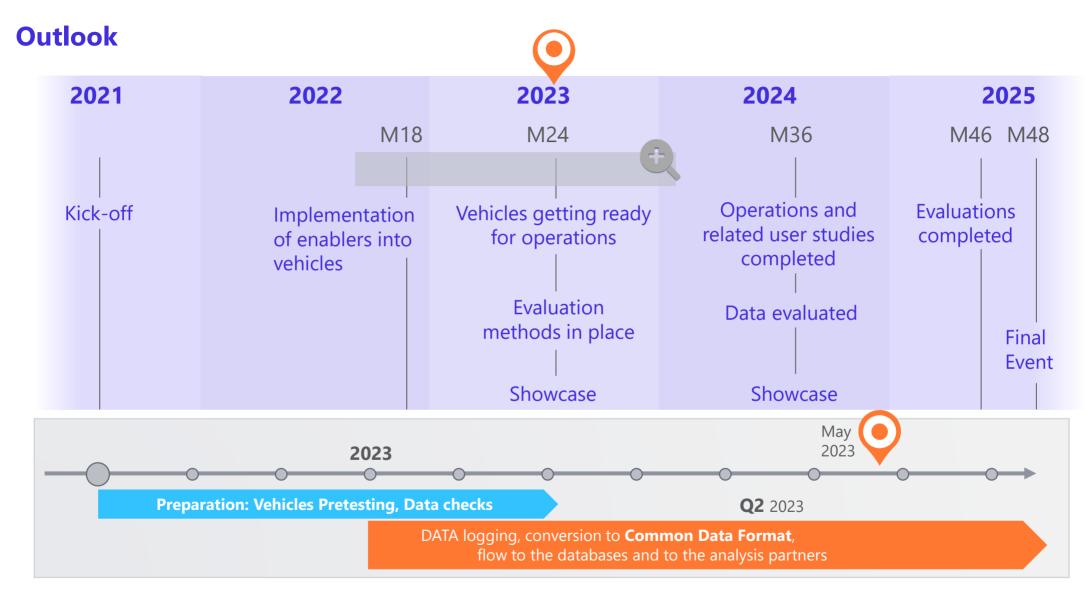
### **Multi-teams Hi-Drive Data Process**



Experiment Data
Hi-Drive
Common
Data Format

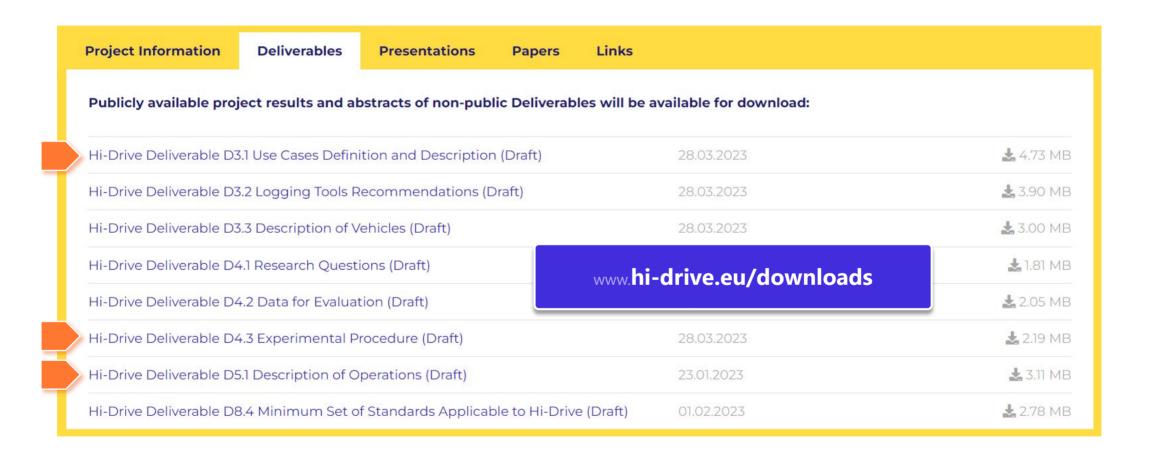








# Find our work publicly released







# THANK YOU FOR YOUR KIND ATTENTION.

Anastasia Bolovinou anastasia.bolovinou@iccs.gr

Hi-Drive

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101006664.

