



Public Road Testing in Practice and The New UNR157 ALKS Regulation

Proof of Concept - UNR 157, Annex 6

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Regulatory background

EU2019/2144, **General Safety Regulation** entry into force on 07/07/2022, safety technologies and design features to become standard:

- **For all vehicles:** intelligent speed assistance, reversing detection, driver drowsiness monitoring, etc.
- **For cars and vans:** LKA, AEBS, Event data recorders (EDR)



Regulatory background

EU2019/2144, **General Safety Regulation**: sets a legal framework to have autonomous and driverless cars in the EU:

- **Driverless vehicles (L4), EU ADS Act:**
 - No driver present
 - Automated driving permitted in defined areas
 - Limit of vehicle series to max.1500 vehicles per model per year
 - First world-wide regulation for L4



JRC substantial contribution:

Safety requirements, safety audit, in-use monitoring and type approval testing

Regulatory background

EU2019/2144, **General Safety Regulation**: sets a legal framework to have autonomous and driverless cars in the EU:

- **Automated Vehicles (L3)**, adopting **UNR157**:
 - Driver present
 - Automated driving mode limited to motorway



JRC substantial contribution on:

- Requirements,
- driver models,
- **track and public road testing**

Test campaign background

Public road testing according to Amendment 1 of UNR157:

- Completely new text (new annex to the regulation):

- New test conditions,
- New scenarios,
- Minimum test duration,
- Minimum data channels to record.



Verification is needed!

Test campaign

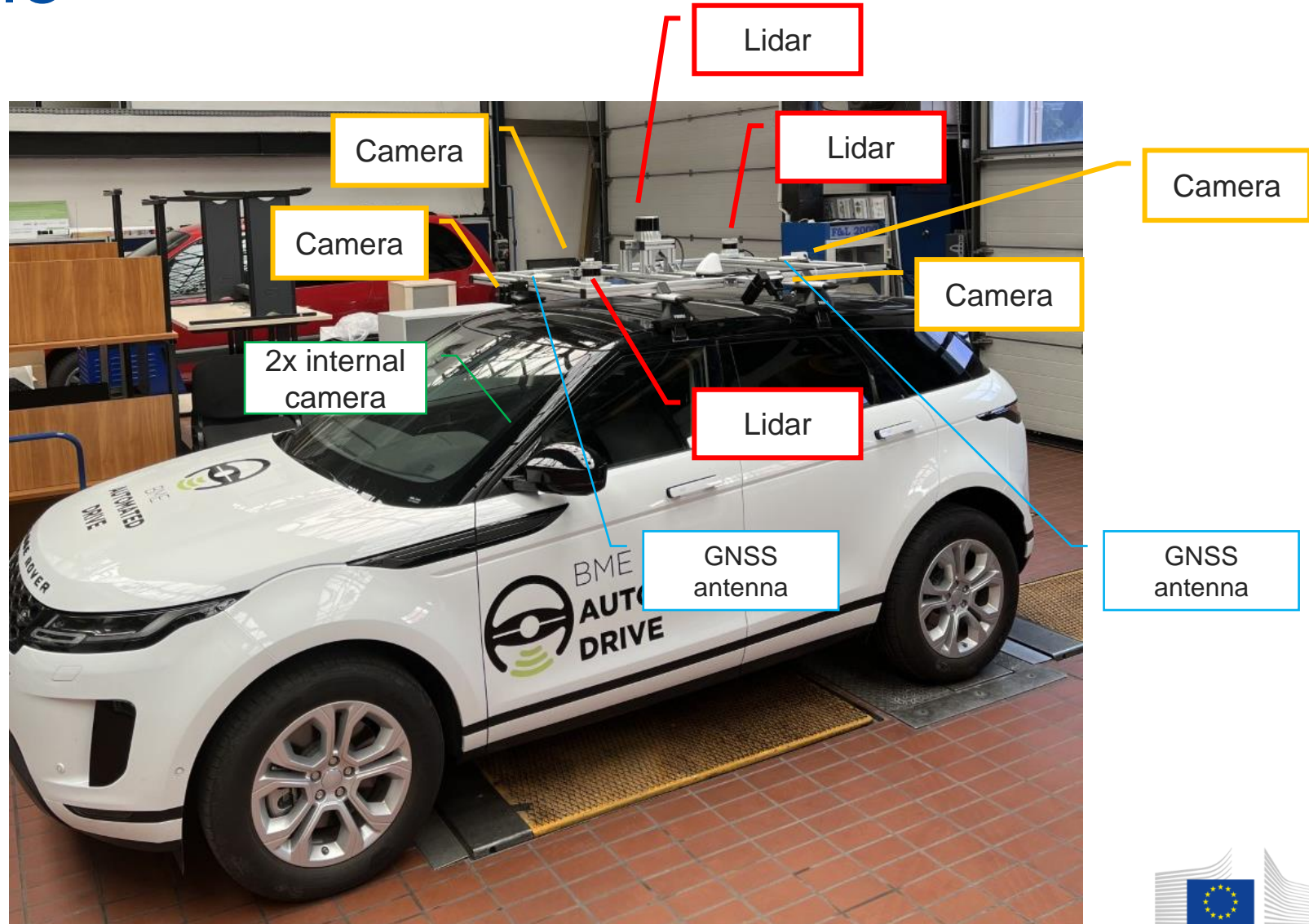
in cooperation of the JRC, BME and RDW.

Aims:

- To gain first-hand experience with the new provisions
- To check the applicability of the test conditions, scenarios and time limitations
- To work out best practice and guidelines for practical testing

Test vehicle

- Test vehicle:



Test campaign

- Test campaign length: 3 days
- Driving more than 1350 km
- Recording 15 hours of driving
 - 5 hours of traffic jam
 - 10 hours of free flow traffic conditions
- Checking 30 scenario types
- Test routes: M6, M7 and M0 highways in Hungary



Thank you



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