



MSCA-RISE-2019 Project

Benchmarking of Wheel Corner Concepts Towards Optimal Comfort by Automated Driving

*MSCA RISE Info Session
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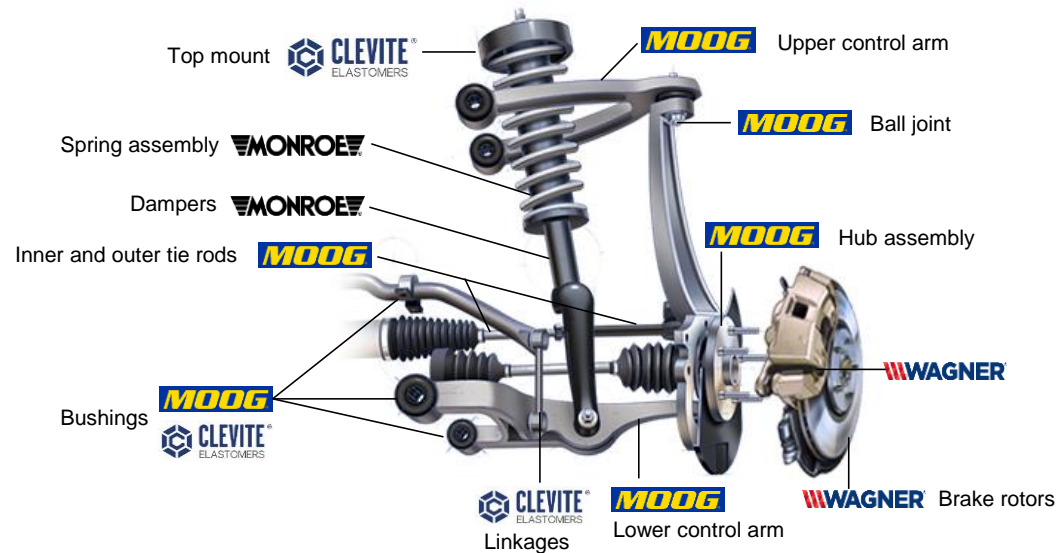
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 872907.

INTRODUCING DRiV™

A DRIVING FORCE TO 'MOVE' PEOPLE

As a global leader serving both manufacturers and the aftermarket, DRiV is dedicated to help its customers innovate the ride experience in an emerging age of shared mobility and autonomous driving.

“AROUND THE WHEEL” PRODUCT OFFERING

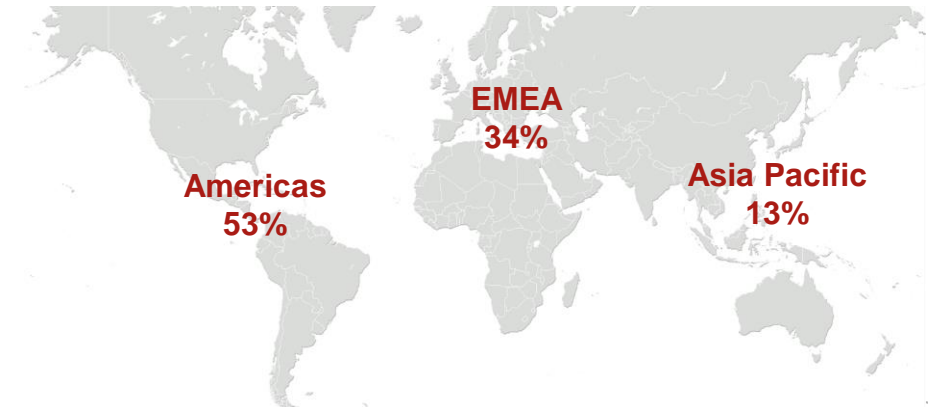


SOLUTIONS PROVIDED FOR



OUR DRIVING FORCE IS OUR PEOPLE

~31,000 Global Team Members % by Region

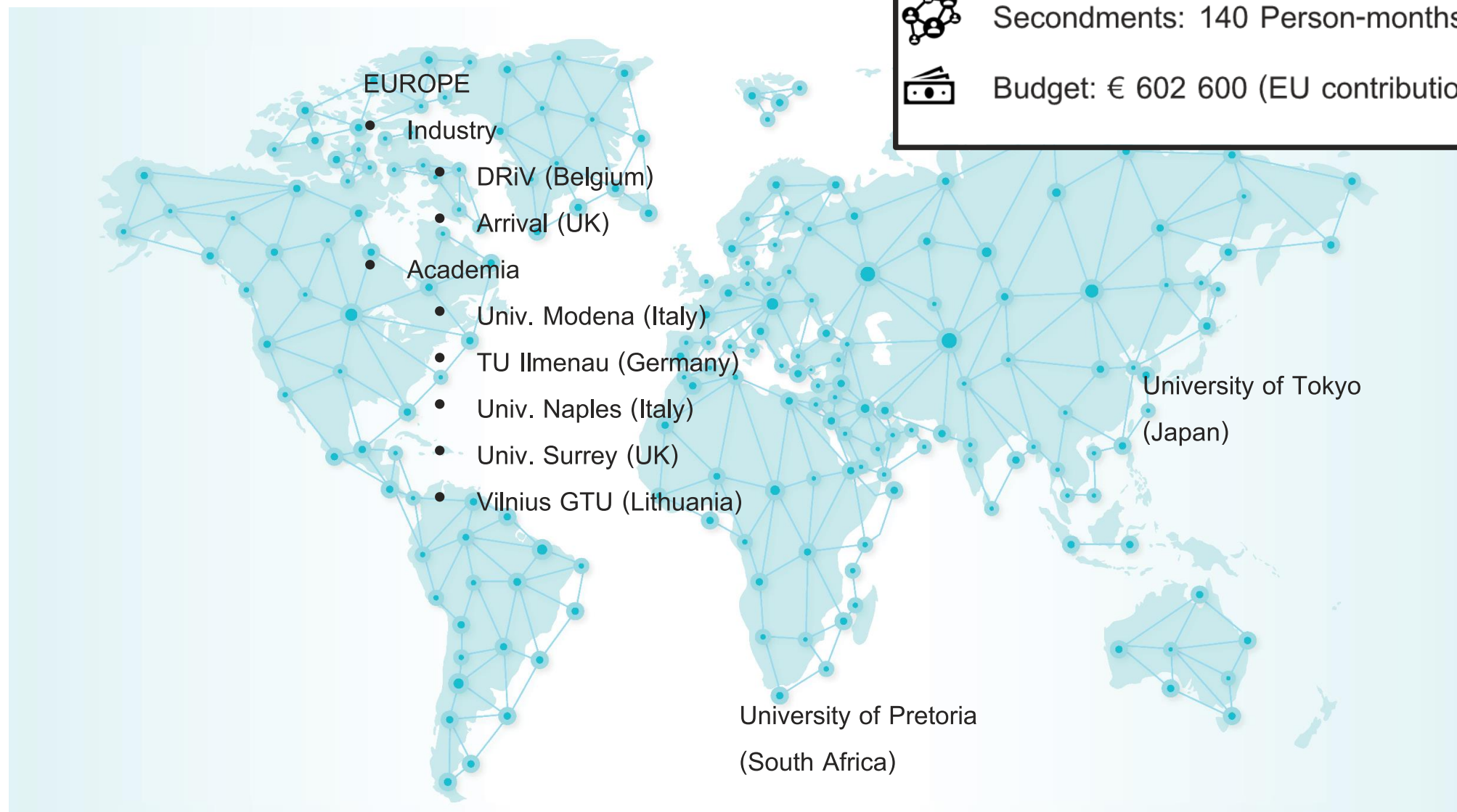


Portfolio of EU funded projects

		EU PROJECT	CALL
<i>currently active</i>	{	OWHEEL	MSCA-RISE-2019
	
		CLOVER	MSCA-RISE-2016
		EVC1000	LC-GV-01-2018
		XILforEV	LC-GV-02-2018
		PRYSTINE	ECSEL-2017-2
		AutoDrive	ECSEL-2016-1
	
		EVE	MSCA-RISE-2014
	

We also get rejected: e.g. CIFRA (MSCA-ITN-2019 & MSCA-ITN-2018)

OWHEEL Key Data & Consortium



Proposal Preparation

Stage: 1 Brain Storming

- Identification of R&D demand together with long-term cooperation partners
 - *Example: TU Ilmenau (Germany) – partnership since 2011 in EU projects*

Stage 2: Formulate Project Objectives

- Three fields are selected – Basic, Applied and Experimental Research
- 1 Work Package for each field
- 1 Research Objective + 1 Innovation Objective for each field
- Extra – Training objectives

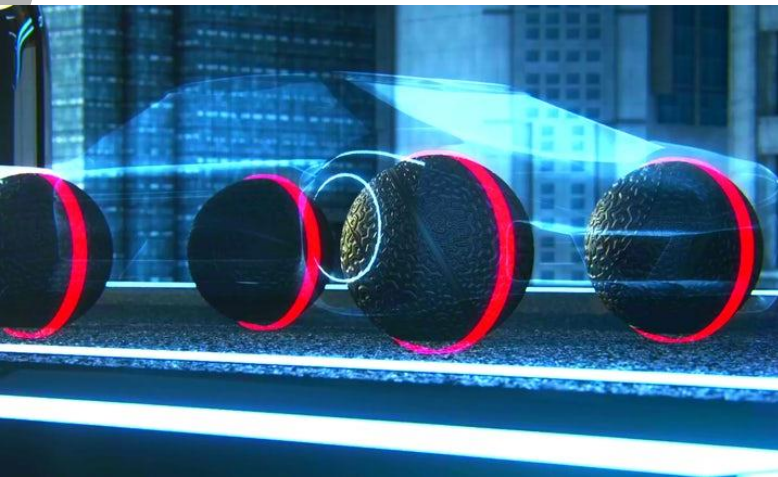
Stage 3: Identification of Consortium

- Create the whole development chain – from analysts to end-users of project outcomes
- Avoid duplicated competences in the consortium

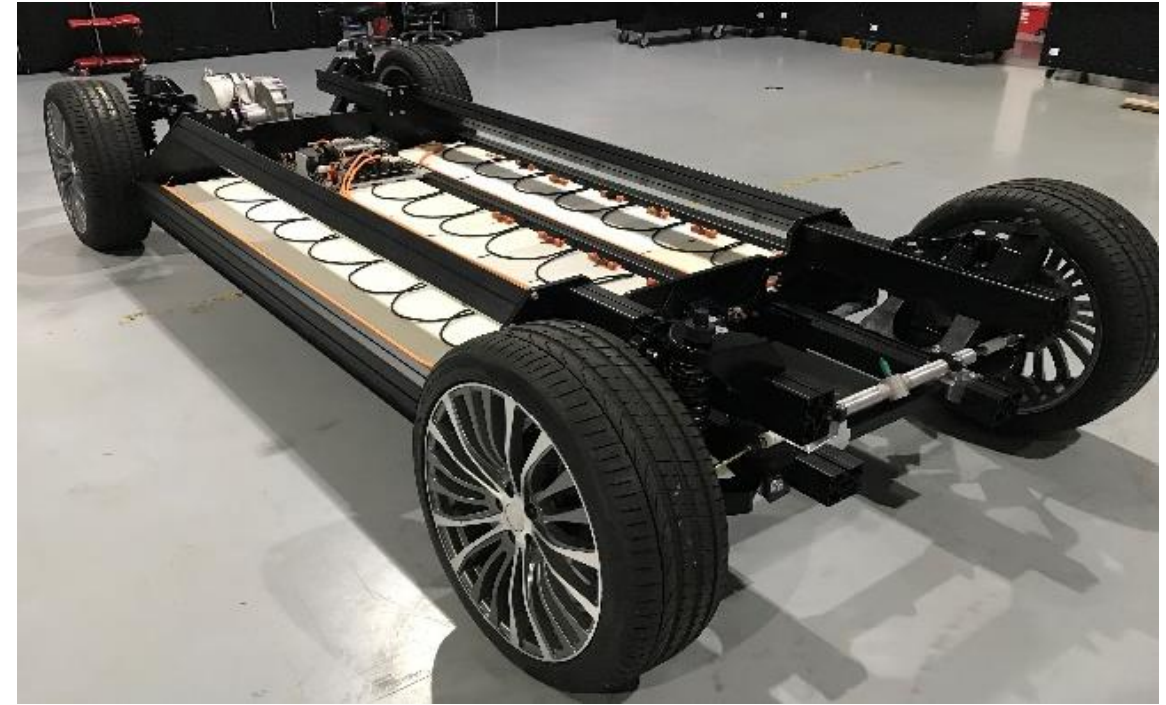


OWHEEL Goal

- (i) Development and evaluation of new concepts of automotive wheel corners
- (ii) tailored to achieve significant reduction of user discomfort during automated driving
- (iii) with simultaneous fulfilment of requirements to safety and robustness

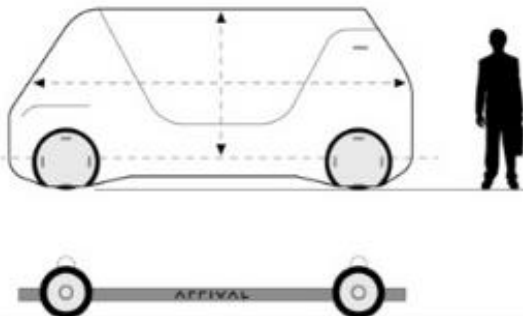


OWHEEL Target Vehicles

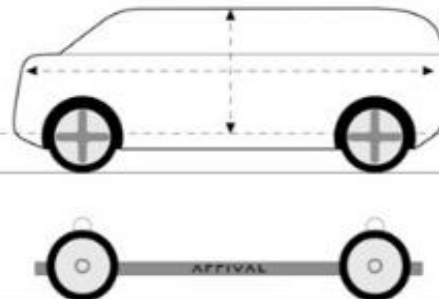


Picture: Arrival Ltd.

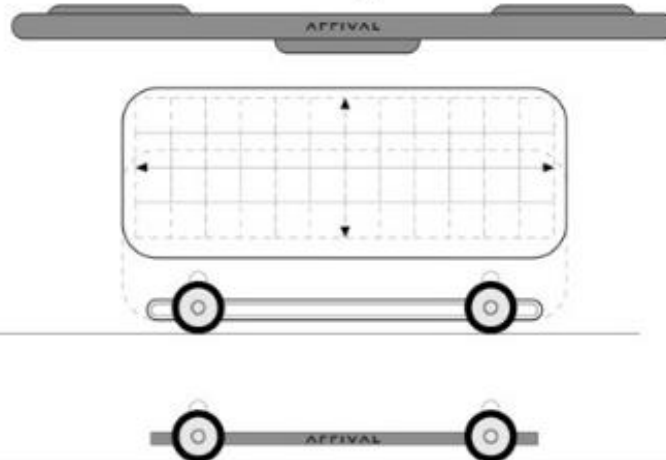
Space_UV
⊕



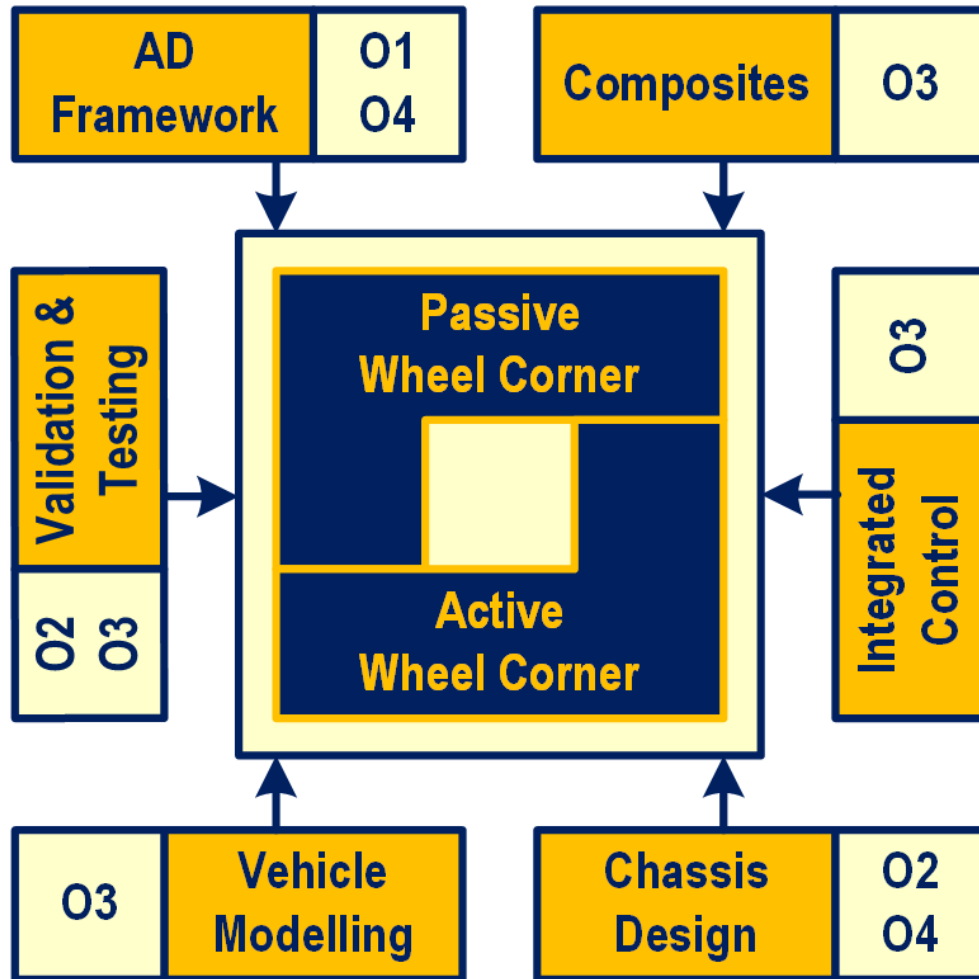
Lux_UV
⊕



Cargo_Now
⊕



OWHEEL Objectives



Research objectives:

1. Revisiting the driving comfort criteria with their tuning to automated driving requirements and operational modes.
2. Development of benchmarking criteria and corresponding analytical tool for comparison of wheel corner concepts.

Innovation and technological objectives:

3. Development, validation and benchmarking of passive and active wheel corner concepts;
4. Producing practical recommendations for automotive system developers based on obtained R&D results.

Networking objectives:

5. Knowledge transfer and experience sharing between participants from academic and non-academic sectors to create innovative products for next generations of AD vehicles and their systems;
6. Professional development of the consortium members through intersectoral and international collaboration and secondments to unique research and innovation environments

Proposal Writing Hints: Excellence Section

- Clear **international** dimension (OWHEEL – 5 EU Countries and 2 Oversea countries)
- Demonstrate **innovation potential** (at least 20% of the consortium – industry and SMEs)
- Show State-of-the-art and your progress for **each project objective** (also with your own references)
- More measures for **Knowledge Sharing** (e.g. OWHEEL proposes joint experiments, exchange of models, etc.)
- Underline **existing** collaboration (references to previous national and EU projects)
- “Not only secondments” – propose **network-wide training**

Proposal Writing Hints: Impact Section

- Measures for **long-term** cooperation (OWHEEL proposes new courses between academic partners, establishment of research labs)
- Dissemination – clear identification of events and journals to be addressed (**project year**, **responsible partner**, **topic**)
- Specify **dissemination indicators** (e.g. for OWHEEL – 2 conferences / year, 2 Q1 journal publications for each Work Package; 1 Exhibition for each industry partner)
- IPR and Exploitation – add list of **planned patents or innovation objects** (short description, responsible partner)

Proposal Writing Hints: Implementation Section

- Clear content for innovation-related **Deliverables** (specific objects / demonstrators)
- Plan **Open-Access Deliverables** (e.g. data sets with experimental results)
- Demonstrate feasibility by showing the **available equipment**





EUROPEAN COMMISSION

Horizon 2020 - Research and Innovation Framework Programme

Evaluation Summary Report

Call:	H2020-MSCA-RISE-2019
Type of action:	MSCA-RISE
Proposal number:	872907
Proposal acronym:	OWHEEL
Duration (months):	48
Proposal title:	Benchmarking of Wheel Corner Concepts Towards Optimal Comfort by Automated Driving
Activity:	ENG

Evaluation Result

Total score: 97.00% (Threshold: 70/100.00)

Criterion 1 - Excellence

Score: **4.90** (Threshold: 0/5.00 , Weight: 50.00%)

Criterion 2 - Impact

Score: **4.80** (Threshold: 0/5.00 , Weight: 30.00%)

Criterion 3 - Quality and efficiency of the implementation

Score: **4.80** (Threshold: 0/5.00 , Weight: 20.00%)



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