

H2020-LC-GV-2018



Integrated, brand-independent architectures, components and systems for next generation electrified vehicles optimized for the infrastructure

Innovation Action (IA)

Grant Agreement — 824311



ACHILES

Advanced Architecture Chassis/Traction concept for Future Electric vehicles

D6.3

Public website



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DOCUMENT INFORMATION

Public

D6.3 – Public website	
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Change History

Version	Date	Description	Issued by
1.0	13.02.2019	Initial Version	VUB: Eva Flora Varga
2.0	19.02.2019	Review/approval by WPLs	VUB: Eva Flora Varga
3.0	25.02.2019	Review/approval by the consortium	VUB: Eva Flora Varga
4.0	26.02.20.19	Final	VUB: Eva Flora Varga
5.0	04.06.2019	Disclaimers added	VUB: Eva Flora Varga

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Public Website

ACHILES website - Menu and banner



The ACHILES website went online on 13 February 2019 after the project logo and visual identity have been developed.

The website includes:

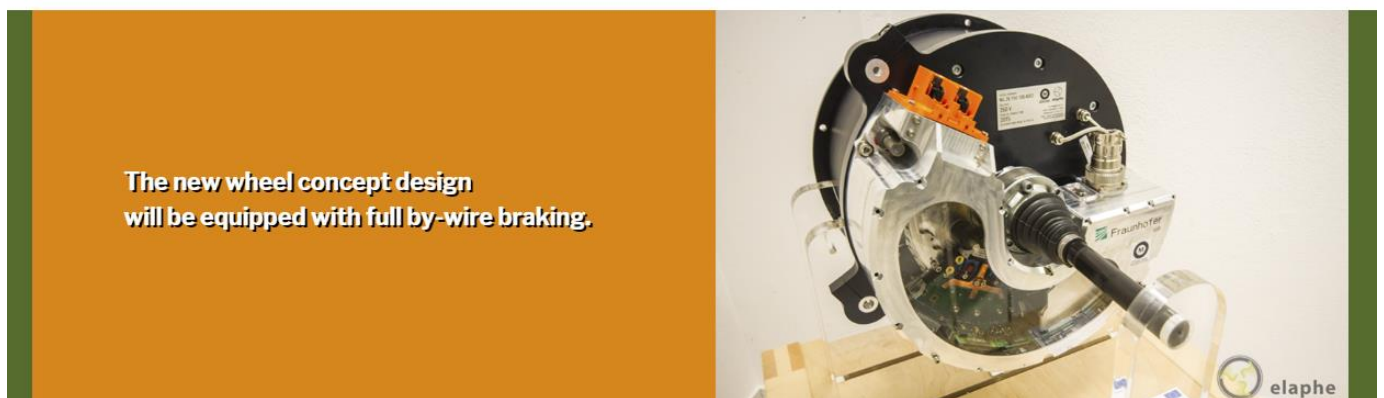
- the description of the project's objectives and structure;
- the profiles, logos and roles of the project partners;
- news;
- contacts and log-in to the intranet;
- information on funding / the EU emblem;
- legal conditions;
- privacy policy.

Later an additional page, called „library” will be added where non-confidential project deliverables or reports, project brochures will be provided.

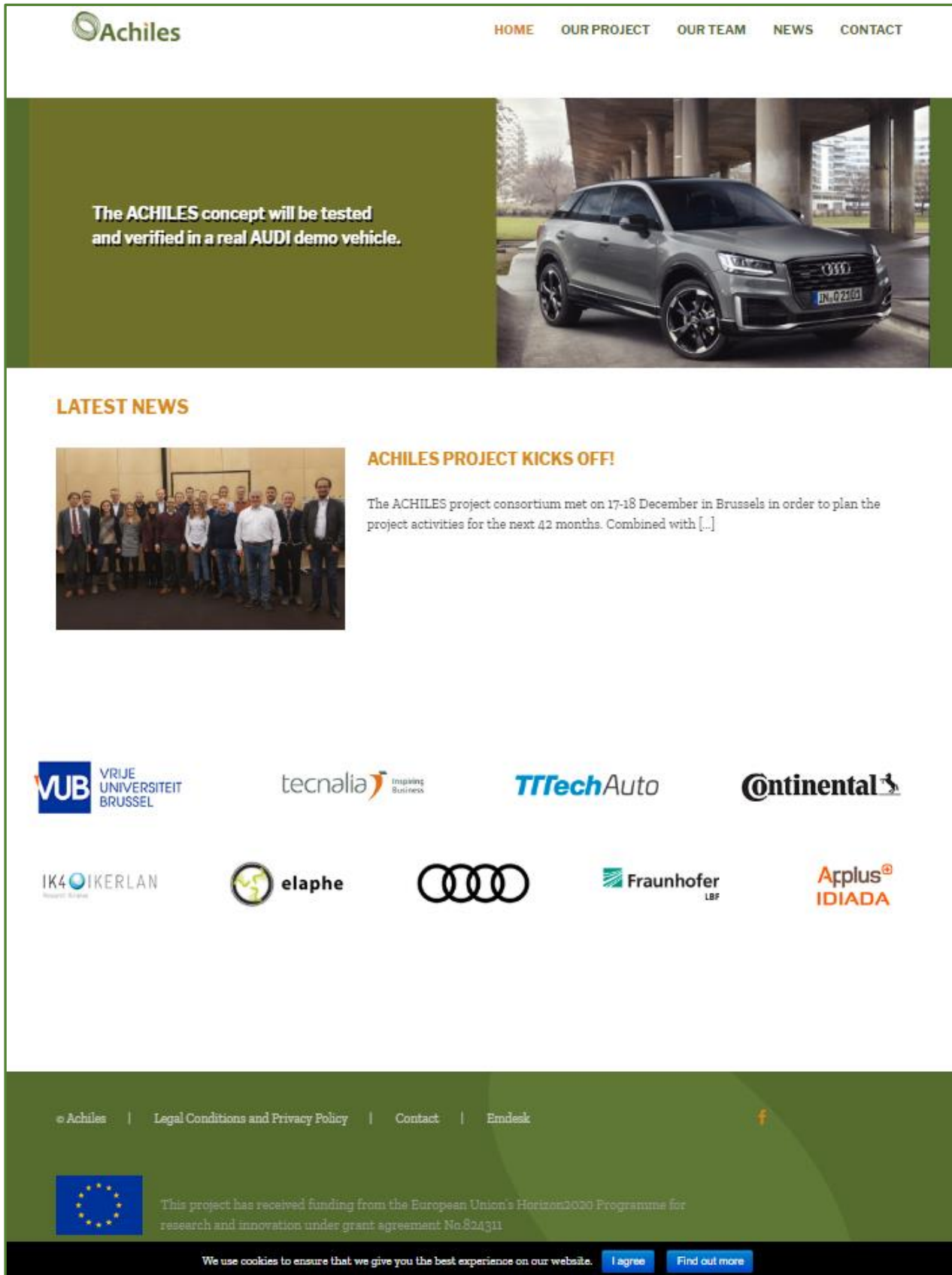
The website will be regularly updated with further content.

It is accessible via the following URL: <https://www.h2020-achiles.eu/>

ACHILES website - Slider no. 2



Screenshots of the ACHILES website



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OUR PROJECT – OBJECTIVES

The objective of ACHILES is to develop **Advanced Architectures CHassis/Traction** concept for Future Electric vehicles.

ACHILES will develop and enhance new parts and functionalities in a new E/E system architecture by developing and further integrating four technological concepts. Each of these four concepts are a technological paradigm shift and breakthrough on their own, but together they will significantly reduce weight, system complexity, and cost while increasing reliability, and user comfort and safety/security.

1. A **new wheel concept** design will be equipped with full by-wire braking, including a new friction brake concept.
2. A **centralized computer platform** will host the e-drive functionalities and reduce the number of ECUs and networks while fulfilling safety & security requirements. It will also support centralized domain controllers required to implement high automation and autonomy concepts, a key requirement for smart mobility.
3. An **out of phase control** will allow to intentionally operate the electric motor inefficiently to dissipate the excess of braking energy in case of fully charged batteries.
4. A **new torque vectoring algorithm** will significantly improve vehicle dynamics.

As a result of integrating these four concepts into an EV, the total cost of ownership will be reduced while driving range and autonomy increase.

ACHILES is part of the E-VOLVE cluster.

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