



Project Title:

## **Q**ualifying and **I**mplementing a user-centric designed and **E**fficient **T** electric vehicle

Project Acronym: **QUIET**

GA: **769826**

Topic: **Electric vehicle user-centric design for optimised energy efficiency**

Topic identifier: **GV-05-2017**

Type of action: **RIA Research and Innovation action**

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<b>Written by</b>	Dragan SIMIC (AIT)	2018-02-26
	Hansjörg KAPPELLER (AIT)	2018-02-26
<b>Checked by</b>	Quality Coordinator (HRE)	2018-02-27
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**D6.2:** Project website content and corporate identity (PU)

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## **Publishable Executive Summary**

A public webpage was build and put online by the end of February 2018. The website is available at following public domain address:

<http://www.quiet-project.eu/>

This website will be used to provide general information about the projects research results. Special emphasis will be given for in-depth information on the QUIET objectives, results (including all public deliverables) and consortium partners. Relevant news (e-newsletter), highlights and events related particularly to QUIET and generally to EVs will be posted on the homepage.

Hence, the additional value of the QUIET approach will be presented to a broader public.

The content will be provided by the QUIET project partners as a common effort.

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## Abbreviations and Nomenclature

**Table 1:** List of Abbreviations and Nomenclature.

Symbol or Shortname	Description
EC	European Commission
PO	Project Officer
PC	Project Coordinator
GA	General Assembly
WP	Work Package
DL	Dissemination Level

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## 1. Targets

The QUIET website serves as a platform for communication of project news and upcoming events and will contain following information:

- Project scope and targets
- Public events related to the projects targets
- Contact information for the public
- Corresponding with the QUIET progress on the website are provided soon:
  - Public reports
  - E-newsletters to subscribe
  - Media channel (i.e. eye minded related media)
  - Discussion forum

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## 2. Implementation of work – Results

### 2.1. Project website content

The QUIET website and its contents are live-documents which are improved and updated permanently. Figure 1 depicts a sample of the website (February 2018) available at <http://www.quiet-project.eu/>

**Quijet** QQualifying and Implementing a user-centric designed and Efficient electric vehicle

A European Union funded project coordinated by AIT Austrian Institute of Technology

HOME PARTNERS CONTACT

### Objectives

QUIET aims at developing an improved and energy efficient electric vehicle with increased driving range under real-world driving conditions. This is achieved by exploiting the synergies of a technology portfolio in the areas of:

- user centric design with enhanced passenger comfort and safety
- lightweight materials with enhanced thermal insulation properties
- and optimised vehicle energy management

<p><b>AREA I</b></p> <p>expected <b>energy</b> reduction through thermal and energy management</p> <p><b>10 %</b></p>	<p><b>vehicle validation platform</b></p> <p>(B-segment Honda Fit EV)</p>	<p><b>AREA III</b></p> <p>expected <b>energy</b> reduction through optimized cabin heating</p> <p><b>10 %</b></p>
<p><b>AREA II</b></p> <p>expected <b>weight</b> reduction of lightweight vehicle components</p> <p><b>20 %</b></p>		<p><b>AREA III</b></p> <p>expected <b>energy</b> reduction through novel AC with PCM storage</p> <p><b>15 %</b></p>
<p><b>AREA II</b></p> <p>expected <b>weight</b> reduction of lightweight seats</p> <p><b>10 %</b></p> <p>Al / Mg</p>	<p><b>AREA II</b></p> <p>expected <b>energy</b> reduction through thermal insulation</p> <p><b>20 %</b></p>	<p><b>AREA II</b></p> <p>expected <b>weight</b> reduction of lightweight windows</p> <p><b>30 %</b></p>

The developed technologies will be integrated and qualified in a Honda B-segment electric vehicle validator. Among these, a novel refrigerant for cooling, combined with an energy-saving heat pump operation for heating, advanced thermal storages based on phase change materials, powerfilms for infrared radiative heating, and materials for enhanced thermal insulation of the cabin will be investigated. Further focus is put on lightweight glazing for windows, as well as light metals like aluminium or magnesium for seat components. Optimized energy management strategies, will further enhance the thermal performance of the vehicle.

The objective of QUIET is to reduce the energy needed for cooling and heating the cabin of an electric vehicle under different driving conditions, by at least 30 % compared to the Honda baseline 2017. Additionally, a weight reduction of about 20 % of vehicle components (e.g. doors, windshields, seats, heating and air conditioning) is also addressed. These efforts will finally lead to at least 25 % driving range increase under both hot (+40 °C) and cold (-10 °C) weather conditions.

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Website Credits / Impressum / Informationen gemäß § 5 (1) E-Commerce-Gesetz

Figure 1: Sample of the QUIET website

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## 2.2. Corporate identity - Logo

Figure 2 shows the official QUIET project logo. This logo has been approved by the GA already during the Kick-off meeting of QUIET and was subsequently also documented in the deliverable D7.1 “Quality plan, Contracts and Reports“, which was submitted by end of December 2017.

As corporate identity on external and internal publications, the use of the official project logo is required. The project logo is located on the project network storage repository ([QUIET\admin\logos](#)).



**Figure 2:** The created QUIET logo



### 3. Acknowledgment

#### European Union's Horizon 2020 research and innovation programme

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#### Project Partners:

The author(s) would like to thank the partners in the project for their valuable comments on previous drafts and for performing the review.

Participant No	Participant short name	Participant organisation name	Country
1 Coordinator	<b>AIT</b>	AIT Austrian Institute of Technology GmbH	Austria
2	<b>HRE</b>	Honda R&D Europe (Deutschland) GmbH	Germany
3	<b>QPA</b>	qpunkt GmbH	Austria
4	<b>QPD</b>	qpunkt Deutschland GmbH	Germany
5	<b>VEN</b>	VENTREX Automotive GmbH	Austria
6	<b>UOZ</b>	University of Zagreb	Croatia
7	<b>IFAM</b>	Fraunhofer Institute for Manufacturing Technologies and Advanced Materials IFAM	Germany
8	<b>ATT</b>	ATT advanced thermal technologies GmbH	Austria
9	<b>ECON</b>	eCon Engineering Kft.	Hungary
10	<b>RUB</b>	Rubitherm Technologies GmbH	Germany
11	<b>STS</b>	SeatTec Sitztechnik GmbH	Germany
12	<b>OBR</b>	Obrist Engineering GmbH	Austria
13	<b>JRC</b>	Joint Research Centre - European Commission	Italy

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