

OSCCAR: FUTURE OCCUPANT SAFETY FOR CRASHES IN CARS



Dissemination Plan and the execution of dissemination activities

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1 EXECUTIVE SUMMARY

This document describes the basic processes and methods for disseminating both project activities and project results of OSCCAR project, i.e. making it available to the specific stakeholders and to the wider audience.

Each work package and task within OSCCAR have their related dissemination activities, but there is a dedicated WP (WP6) defined in the project which deals with managing and coordinating these activities project-wide. Goal is to increase the visibility and support the impact generation of OSCCAR and its scientific results through necessary dissemination and communication activities planned and undertaken.

This document comprises the following topics: Identification of objectives & audiences; description of relevant stakeholders & identification of multipliers; description of dissemination methods and processes; and the respective responsibilities for dissemination and communication activities.

The deliverable also provides a comprehensive report on dissemination activities accomplished and planned within the first 9 project months. In Annex A OSCCAR dissemination material is presented for reference.

For efficient and effective dissemination OSCCAR uses a “multipliers’ approach” wherever possible.

The dissemination plan is a living document. Goals, strategies and tools outlined below may be subject to change over the duration of the project and we remain open to alternative ways of publishing and disseminating our results.

Exploitation activities will be a separate deliverable and will therefore not be discussed in this dissemination plan.

Keywords: dissemination, communication, website, stakeholder, multiplier

2 OBJECTIVES & AUDIENCES

The overall aim of WP6 Project Communication, dissemination and exploitation is to increase the visibility and support the impact generation of OSCCAR project and its project results. In the project's lifetime continuous dissemination and collaboration with relevant stakeholder (see section 2.6) to support the development of a novel, simulation-based approach to safeguard occupants involved in future vehicle accidents will take place.

To ensure the achievement of this aim, the necessary dissemination and communication activities are planned and undertaken. In addition, a continuous evaluation of impact is to be conducted (see section 3.1.8).

The main objectives of the OSCCAR dissemination activities are:

- **Raising awareness** of the community on OSCCAR activities, results / deliverables and on OSCCAR partners
- **Inform and educate** the community on the topical area of safety for crashes in cars
- **Engage** the community to get input / feedback
- **Promotion and selling** of outputs and results to the community. Facilitate technology transfer and accelerate dissemination of the on-going project activities.

A complete list of objectives for WP6 was defined in the project proposal [1] and will be referenced as follows:

2.1 Objective 1: Prepare a comprehensive plan for communication measures and dissemination activities

This plan shall contain communication measures, activities and tools following the European Commission guide for Communicating EU Research and Innovation 2014 [13]. The objective is met with this deliverable D6.2.

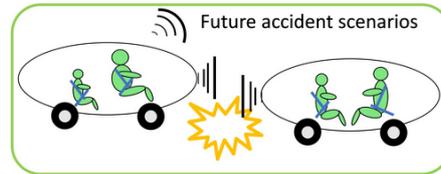
2.2 Objective 2: Create and maintain a public website

Aim of the website is to provide downloadable short explanatory information, press releases, photos, videos, project flyer(s) and e-newsletters with easily digestible information [1].

An appropriate website is the "face" of a project to the world. It is therefore very important that it can be found easily with relevant key words. The website also needs to be updated continuously, in order to be (re-)visited often by our intended audience.



FUTURE ACCIDENT SCENARIOS



- HAVs
- Mixed Traffic
- Traffic simulation
- Driving situation
- Accident / collision parameters
- Future relevant accident matrix

OSCCAR uses a comprehensive integrated approach for the development of future advanced occupant protection systems. It will provide a unique human body model (HBM)-based development and assessment framework, covering main challenges of future road safety due to the introduction of highly automated vehicles as well as changes in demographics: relevant accident scenarios (mixed traffic), future vehicle interior designs, new occupant sitting positions, ageing population etc. This demands for targeted changes and adaptations of scenarios, procedures and tools for occupant safety development, assessment and homologation, not addressed by e.g. regulations or consumer crash tests today.

The resulting complexity requires an emphasis on virtual methods. Based on the analysis of future relevant accident scenarios and considering new, highly automated vehicles (HAVs) enabled sitting positions, OSCCAR will develop and demonstrate advanced occupant protection principles. These require assessment with improved HBMs (omni-directionally biofidelic, active and robust), considering gender and demographic factors as well as improved soft tissues material properties. Furthermore, OSCCAR will develop fully integrated assessment methods for complex test scenarios of the complete crash phase providing the required level of confidence as current physical test procedures do. OSCCAR will also contribute to the harmonization of HBMs, a harmonized validation of injury criteria as well as the improvement of virtual testing standards. Eventually OSCCAR will develop a clear roadmap towards large scale implementation of virtual testing methods for advanced safety solutions, not only relevant in the automotive domain but also for two-wheelers, VRUs, or in sports. Due to its excellent partner consortium with key players from industry and research from Europe, North America and Asia, OSCCAR is in the position to ensure global future deployment and application of its results and achievements.

The screenshot shows the OSCCAR website layout. At the top, there is a navigation menu with links: Home, OSCCAR, Objectives, Partners, Work Description, Media & Results, News, and Contact. Below the menu is a section titled 'FUTURE ACCIDENT SCENARIOS' featuring a diagram of two vehicles colliding and a list of related topics: HAVs, Mixed Traffic, Traffic simulation, Driving situation, Accident / collision parameters, and Future relevant accident matrix. The main content area contains two paragraphs of text describing the project's approach and goals. Below the text is a carousel of news items with three visible cards: 1) 'OSCCAR consortium meets from 22-23 November at the F2F Meeting in Santa Oliva, Spain', 2) 'OSCCAR project @ IRCOBI 2018', and 3) 'OSCCAR official project start'. The footer section includes 'Funded by' (European Union logo) and 'Coordinated by' (virtual vehicle logo).

Figure 1 OSCCAR Website

The website is a key activity in the dissemination process and was created at the beginning of the project: www.osccarproject.eu [12]. The website is intended to provide information to both the project partners and the public. It gives an introductory overview to OSCCAR for interested parties and makes public deliverables and publications available. It also provides updates on recent events and news and presents also low-barrier introductions into project objectives, activities, partners and contact. Additional sections present the key outcomes and results of OSCCAR (publications, deliverables).

The website is optimized with search-engine optimization (SEO) in mind. The project coordination team from VIF is responsible for editing and for carrying out website updates on a regular basis. VIF takes care about regular maintenance of the website including timely uploading of project results, papers published, deliverables released or news items to be reported.

Further details on OSCCAR Website can be found in D6.1 “Short description of the setup of the dissemination tools” [8].

The website is accompanied by appropriate means of social media solutions.

2.2.1 Social Media

Within OSCCAR social media will be used to report on deliverables and dissemination activities to key stakeholder and the public throughout the project. OSCCAR has implemented two social media networks for the OSCCAR project. Aim is to provide updates for project partners, researchers and the interested public.

By using social media, a wide spectrum of users can be reached, and will support increasing the public awareness of the OSCCAR project. OSCCAR partners were encouraged to be active members as all partners are responsible for dissemination. Each partner was encouraged to register at the channels and to provide content.

2.2.1.1 LinkedIn

LinkedIn is a platform most often used for business-to-business communication and to create a professional image for both individuals and corporations. Aiming to reach experts and professionals the project has established a group “OSCCAR project”.

The project LinkedIn page is already active. It is also linked on the project website.

 <https://www.linkedin.com/groups/13655575/>

2.2.1.2 Twitter

Twitter is a more conversational and informal platform. It is a very powerful tool to disseminate news about the project as it is widely used. A Twitter account is already set up and is accessible at:



<https://twitter.com/OsccarProject>

The Twitter page is also linked on the project website.



Figure 2 OSCCAR Twitter and LinkedIn on OSCCAR Website

2.3 Objective 3: Present and/or publish project results at international conferences, events and journals

Publishing of results is done in the individual work packages, tasks, or joint effort and is managed through WP6. WP6 also strives to support the project partners to be aware of suitable dissemination activities in this context. Goal is to reach different target groups (raise awareness in the community on OSCCAR project results; educate the vehicle safety community; foster collaboration between OSCCAR partners and external entities).

Done activities in this respect can be found in section 3.1.6. Planned activities can be found in section 3.1.7.

To increase the impact of the project results and to promote debate to accelerate the implementation of these results, presentations will be given at international conferences and exhibitions. Envisaged actions are:

- Yearly presentations of the project results at one or more conferences
- Invited presentations at events by EC, national governments or other stakeholders and
- Publications in scientific journals at relevant international events.

Examples for leading scientific journals relevant for publishing in OSCCAR are:

Journal	Open Access Level
Journal of Transportation Safety & Security https://www.tandfonline.com/toc/utss20/current	Green Open Access
Journal for Safety Research https://www.sciencedirect.com/journal/journal-of-safety-research	Gold Open Access
International Journal of Vehicle Safety https://www.inderscience.com/jhome.php?jcode=ijvs	Gold Open Access
European Transport Research Review https://etr.springeropen.com/	Green Open Access
Journal of Traffic Injury Prevention https://www.tandfonline.com/toc/gcpi20/current	Green Open Access

Table 1 Examples for scientific journal relevant for OSCCAR

Presentations at conferences, international meetings, exhibitions and workshops will be used to raise awareness, discuss research results and offer the chance to debate arising issues and findings amongst world-renowned scientists and researchers. All these activities (planned and done) must be filled in the list of dissemination activities on Projectplace [2].

Relevant conferences are:

Conference	Link
International Research Council on Biomechanics of Injury (IRCOBI)	http://ircobi.org/wordpress/
Association for the Advancement of Automotive Medicine (AAM)	https://www.aaam.org/annual-conference/
The Transport Research Arena (TRA)	https://traconference.eu/
Carhs “Human Modelling and Simulation in Automotive Engineering	https://www.carhs.de/en/human-modeling-overview.html
International Symposium & Accompanying Exhibition on Sophisticated Car Safety Systems	https://www.ict.fraunhofer.de/de/veranstaltungen-messen/veranstaltungen/airbag2018.html
VDI Fahrzeugsicherheit	https://www.vdi-wissensforum.de/weiterbildung-automobil/fahrzeugsicherheit/
International Technical Conference on the Enhanced Safety of Vehicles (ESV)	https://www-esv.nhtsa.dot.gov/
Aachen Colloquium	https://www.aachener-kolloquium.de/de/
US SAE Congress	https://www.sae.org/attend
Transport Research Board (TRB)	http://www.trb.org/Main/Home.aspx
JSAE Congress	http://www.jsae.or.jp/2019haru/english/index.html
Carhs Automotive Grand Challenge	https://www.carhs.de/en/grand-challenge-overview.html

2.4 Objective 4: Communicate/disseminate knowledge with international groups and organisations

Dissemination of knowledge is an active process to communicate results to potential users by targeting, tailoring and packaging the message for a target audience.

OSCCAR plans to communicate its results and outputs already throughout the project to the target audiences described in the following chapter.

2.5 Audiences / Target group

The project activities, results and deliverables shall be widely disseminated on national and European level to the following audiences:

- **Specific “external audiences”** such as relevant target groups / institutions / organizations, other projects, as well as individuals.

- **Wider “external audiences”** such as ‘the scientific community, the vehicle safety related community’ or the broad public, and
- **the “internal audience”**, i.e. all partners of the OSCCAR partner consortium.

2.6 Stakeholder & Multipliers

Aim of the dissemination activities is to spread the OSCCAR project results to all stakeholders. Therefore, OSCCAR will engage with several relevant organizations to disseminate information about the project. This guarantees that the dissemination runs via professional or academic scientific organization or (working) groups.

Stakeholders identified within OSCCAR project are defined as:

- People/ organizations / legal entities who are **directly or indirectly affected** now or in the future by the project activities.
- People/ organizations / legal entities who **can / may influence** the progress, outcome or end result of the project.

2.6.1 Description of Stakeholder

WP6 is continuously identifying stakeholders and multipliers. Stakeholders are to be, amongst others:

- OSCCAR partner consortium, especially:
 - Directors (e.g. of business development) of the OEM and Tier 1 OSCCAR partners

The OSCCAR consortium also directly includes 2 partners from China, respectively

- Tsinghua University
- China Automotive Technology and Research Center (CATARC)

as non-EC funded partners that act as stakeholders.

Moreover, OSCCAR project is directly linked to

- Toyota Motor Cooperation (TMC) and
- Mercedes-Benz Research & Development India (MBDRI), as well as
- Daimler Greater China Ltd (DGRC).

They have also been identified as important Stakeholders.

- External stakeholders, like **the vehicle safety community and beyond** and interested groups such as:
 - The European New Car Assessment Programme (Euro NCAP) [14]
 - European Council for Automotive R&D (EUCAR) [15]
 - European Association for Automotive Suppliers (CLEPA) [16]
 - European Automotive Research Partners Association (EARPA) [17]
 - European Transport Research Advisory Council (ERTRAC)
 - Ministry of transport Spain (DGT)
 - Ministry of transport US (USDOT)

- Ministry of transport-France (DSCR)

In the proposal phase they have already provided a Letter of Support (LoS). Many partners are members of the organizations/associations.

Furthermore, many consortium partners have relationships with

- chief scientific advisors,
- ministers and are active in lobbying
- (inter)national governments for advancements in sustainable transport and logistics.

They are therefore stakeholders and/or multiplier for the project dissemination.

Furthermore, the following stakeholder have been identified:

- Other related EU projects & project participants
- A fruitful collaboration with PIONEERS project [18] and VIRTUAL project [19] from the H2020 MG3.2 call have already been established. A first joint workshop already took place in the frame of the IRCOBI 2018 and a second, public one is planned for IRCOBI 2019 conference in Florence, Italy.
- Suppliers and governments

2.6.2 Identification of Multipliers

Important stakeholders, who are able to take the role of opinion makers / leaders, may serve as “multipliers” and “catalysts” regarding the efficient and effective dissemination of / spreading information on activities, results and deliverables.

For OSCCAR such multipliers may be in particular:

- International transport community and beyond (see description above in section 2.6.1)
- International partnerships and counterparts
 - Global Human Body Modelling Consortium (GHBMC)
 - Wayne State Virginia (WSU) (LoS)
 - University of Waterloo (UOW)
 - Medial College Wisconsin (Milwaukee) (MSW) (LoS)
 - University of Virginia (UVa) (LoS)
 - Virginia Tech (VT)
 - Hongik University (HU) (LoS)
- Agencies, legislative authorities, standardization committees, organisations and special interest groups
- Representatives from Industry & Business Associations, Academic communities, and other interest groups
- Researchers / Experts from the field of policy, science and industry
- High-level officials from the EU (incl. H2020)
- Public authorities involved (incl. National Funding Authorities)
- Regional, national and international media

- OSCCAR consortium partners

OSCCAR partners will play an important role in the “Multipliers’ approach” as used for reasons of dissemination efficiency and effectiveness in OSCCAR. They will identify relevant stakeholders and multipliers on regional and national level (media, interest groups etc.) and provide relevant information to them. Dissemination material has been prepared accordingly, e.g. press releases with general parts (just to be translated into the different languages) and optional parts for providing partner- / country-specific information.

Each partner will be responsible for involving and informing relevant contacts and networks about the project. The project will also lead to an extension of the existing networks, by attending meetings, workshops, conferences and other events. International experts (most of them committed a letter of support (LoS) in the project) are both target audience and a tool for dissemination. First the partners will be the target audience (see section 2.5), as they will benefit from the results of the project. But they will also be active members and provide necessary input for reaching the project goals. Through their active cooperation with the project they will widely spread the results throughout the community as multipliers.

Generalised OSCCAR Stakeholder & Multipliers are:

- Scientific Community (Higher Education, Research, Students)
- Industry
- Civil Society
- General Public
- Policy Makers
- Media
- Investors
- Customers
- Other

3 DESCRIPTION OF WORK

3.1 Methods & Processes

3.1.1 Projectplace: project-wide repository

Projectplace is the main repository and communication platform within OSCCAR project.

The repository is mainly managed within WP7 (Project Management). However, WP6 supports dissemination and exploitation for all partners with the collections/pages listed in Table 2.

Content	Reasoning	Reference
Collection of dissemination activities (planned and done)	List and reference	[2]
Collection of project-related publications of partners	List and reference	[3]
Collection of project-related patents of partners	Collect and make available for further use	[4]
Collection of exploitable foreground	Collect and make available results for further exploitation	[5]
Collection of pictures (photos, graphics) from the project to be used in dissemination activities	Provide easy-to-find and ok-to-use pictures for dissemination activities to partners	[6]

Table 2 Support for dissemination activities

3.1.2 Dissemination methods

3.1.2.1 OSCCAR Cooperate design and dissemination material

An OSCCAR Corporate Design was developed at the beginning of the project to ensure uniform appearance to the external community on all levels (regional, national and European) and towards all stakeholders, see e.g. logo and templates described in chapter 3.1.2.

For presentations the OSCCAR **PowerPoint template** must be used, available at OSCCAR Projectplace [7]. In addition, a Word **template for deliverables** and for **meeting minutes** is available, as well as a Word **poster template**, all to be found at OSCCAR Projectplace [7].

<input type="checkbox"/>	≡↑	Name
<input type="checkbox"/>	W	OSCCAR_Change_Request_Template.docx
<input type="checkbox"/>	X	20180920_Action_Item_List_OSCCAR.xls
<input type="checkbox"/>	P	OSCCAR_Presentation.pot
<input type="checkbox"/>	W	OSCCAR_meeting_minutes_template.dotx
<input type="checkbox"/>	W	OSCCAR_Deliverable_Review_Template.dotx
<input type="checkbox"/>	W	OSCCAR_Deliverable_Template.dotx

Figure 3 OSCCAR templates

The according document style is defined in the OSCCAR Project Handbook [9]. The handbook also details the “Rules for dissemination and exploitation” in more detail (in chapter 8). They are consistent with the rules defined in the project consortium agreement [10]. The logo of the project is shown in the front of each document. It is used throughout the project and is available for all on Projectplace and the project website [12].



Figure 4 OSCCAR logo

3.1.3 Approval process for dissemination

The approval process for dissemination activities is described in the OSCCAR Project Handbook [9] (in chapter 8.1 General dissemination).

All partners are invited to perform dissemination activities. For this purpose, WP6 provides general presentations and posters that can be used for ad-hoc presentations of the project. In Annex A OSCCAR dissemination material can be found.

Three essential elements should be considered:

- All dissemination material needs to include the following acknowledgement: “OSCCAR has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 768947”.
- Any dissemination of results (in any form, including electronic) must display the EU emblem. When displayed together with another logo, the EU emblem must have appropriate prominence.
- Continuously report your dissemination activity on Projectplace. This will help us a lot to generate the reports on that topic. Simply go to the <https://service.projectplace.com/pp/pp.cgi/r1550990507> and create a new entry. Please describe your dissemination activity as precise as possible.

All dissemination (and publication) activities must be documented at OSCCAR Projectplace, see [2] and [3]. In the OSCCAR Consortium Agreement [10] the specific processes for dealing with publications, press, releases, contributions to standards and reports to the EU are described [10].

As required by Horizon 2020, all OSCCAR partners will ensure open access to their scientific publications done throughout the project. Those publications will be made available (PDF) via the OSCCAR website based on self-archiving (also called '**green**' open access) rules. Support will be offered to OSCCAR partners if needed, to select appropriate publishers and ensure compliance. Public access to research data will be made on a case-by-case basis by partners in each WP. While the open access model for data is encouraged throughout OSCCAR, it cannot be enforced in the whole project and for all partners, as in some cases other obligations (licensing, trade secrets, and external stakeholders) might forbid to publish all available data. If public access can be granted, data will be made accessible via the OSCCAR website.

3.1.4 Responsibilities

VIF as coordinator and WP6 lead is responsible for coordinating dissemination activities. Communication with the external world is a shared task for the Project Coordinator and the WP leader. This includes all external inquiries about the project, contact with related projects, and active communication about the project with the external world (e.g. via press releases, presentations or articles).

Eventually, dissemination is an issue of concern for every partner of OSCCAR and all partners were encouraged to contribute. List with dissemination activities done and planned from all partners can be found in section 3.1.6 and 3.1.8. Within Executive Board (EB) Meetings issues regarding dissemination, communication and exploitation are discussed at each meeting.

3.1.4.1 Identification of dissemination opportunities

Typically, opportunities or events for dissemination (e.g., scientific conferences or journals) are specific to domains and markets, and are therefore identified and tracked by individual partners, or at the WP level.

WP6 will support those activities by distributing such information, whenever possible, within the consortium, e.g. by using Projectplace, reporting in EB meetings, reports at F2F meetings etc.

3.1.5 Dissemination plan

Based on the audiences, stakeholders, multipliers and general dissemination methods the following general OSCCAR dissemination plan has been set up:

#	Dissemination activity	Goal/purpose	Stakeholder / Audience	Dissemination channel / method	Planned frequency
1	Public OSCCAR Website	Provide general information and project updates / results <ul style="list-style-type: none"> Engage Inform and educate Promotion and selling Raising awareness 	<ul style="list-style-type: none"> General Public Industry Media Other EU projects Project partners Scientific community 	OSCCAR Website	Continuous, regular updates
2	Press release	<ul style="list-style-type: none"> Inform and educate Promotion and selling Raising awareness 	All	Press releases in online media, print media and radio	In particular at the start and the end of the project, as well as covering special events
3	General OSCCAR presentation material for use by OSCCAR partners	<ul style="list-style-type: none"> Engage Inform and educate Raising awareness 	All	Templates, Presentation Material	Basic set before M5; continuous update when necessary
4	Prepare OSCCAR leaflet, flyer, brochures, poster	<ul style="list-style-type: none"> Inform and educate Raising awareness 	All	OSCCAR Website	Basic set available before M5, continuous update when necessary

#	Dissemination activity	Goal/purpose	Stakeholder / Audience	Dissemination channel / method	Planned frequency
5	Organization of General Assembly (GA) and Strategic Board (SC) Meetings = F22 meetings	Knowledge exchange <ul style="list-style-type: none"> • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • Media • Project partners 	E-Mail OSCCAR Website	≥ 2 physical meetings/year
6	Organization of conference, workshop and exhibition (and other events)	Knowledge exchange <ul style="list-style-type: none"> • Engage • Inform and educate • Promotion and selling • Raising awareness 	<ul style="list-style-type: none"> • Civil Society • General Public • Industry • Media • Scientific community 	OSCCAR presentation material (poster, presentation, keynote...)	≥ 1 public workshops/year
7	Online publishing (newsletter, magazines, newspapers)	General information <ul style="list-style-type: none"> • Engage • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • Customers • General Public • Industry • Scientific community • Spread within the networks of the participants 	Online Media OSCCAR Website Social Media Partner Websites E-Mail	≥ 4 newsletters (At each innovation cycle, at least every 9 months)

#	Dissemination activity	Goal/purpose	Stakeholder / Audience	Dissemination channel / method	Planned frequency
8	Participation in conference (scientific and industrial), workshops and exhibition and other events	Knowledge exchange <ul style="list-style-type: none"> Engage Inform and educate Promotion & selling Raising awareness 	<ul style="list-style-type: none"> Scientific community Industry Media Policy Makers General public Customers 	OSCCAR presentation material (poster, presentation, keynote...)	>20
9	Co-) organize specific conferences, workshops and exhibitions (and other events), e.g. special tracks etc.	<ul style="list-style-type: none"> Engage Inform and educate Promotion & selling Raising awareness 	<ul style="list-style-type: none"> Civil Society Industry Media Policy Makers Scientific community 	OSCCAR presentation material (poster, presentation, keynote...)	1 per year
10	Participation in relevant national and international events	<ul style="list-style-type: none"> Inform and educate Promote and selling Raising awareness 	<ul style="list-style-type: none"> General Public Industry Media Policy Makers Scientific community 	OSCCAR presentation material (poster, presentation, keynote...)	> 3 per year

#	Dissemination activity	Goal/purpose	Stakeholder / Audience	Dissemination channel / method	Planned frequency
11	Exhibition / booth	<ul style="list-style-type: none"> Engage Inform and educate Promotion and selling Raising awareness 	<ul style="list-style-type: none"> Industry Media Scientific community 	OSCCAR presentation material (poster, presentation, keynote...)	> 1 per year
12	Speech / keynote	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> Industry Media Scientific community 	Publication OSCCAR presentation material (poster, presentation, keynote...)	>10
13	Open Access publications in scientific journals and conference proceedings	<p>Research</p> <ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> Industry Media Policy Makers Scientific community 	Publications OSCCAR Website	>10
14	Non-scientific and non-peer-reviewed publication (popularized publication)	<ul style="list-style-type: none"> Inform and educate Promotion and selling Raising awareness 	<ul style="list-style-type: none"> General Public Industry Scientific community 	Book Online publication	>10

#	Dissemination activity	Goal/purpose	Stakeholder / Audience	Dissemination channel / method	Planned frequency
15	Clustering and liaising with other relevant RDI projects and other initiatives at European and international context	<ul style="list-style-type: none"> • Raising awareness • Inform and educate 	<ul style="list-style-type: none"> • Scientific Community 	Workshops OSCCAR presentation material (poster, presentation, keynote...)	continuously
16	Supporting PhD or Master theses work	<ul style="list-style-type: none"> • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • Scientific Community 	Lectures	continuously
17	Public Deliverables	<ul style="list-style-type: none"> • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • All Stakeholders 	Website EU Participant Portal OSCCAR Projectplace	When accepted by EC see Grant Agreement [1]
18	Social Media	<ul style="list-style-type: none"> • Engage • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • Scientific Community • Industry • Media • General Public 	Twitter LinkedIn	continuously

#	Dissemination activity	Goal/purpose	Stakeholder / Audience	Dissemination channel / method	Planned frequency
19	Final event	Knowledge exchange <ul style="list-style-type: none">• Engage• Inform and educate• Promotion and selling• Raising awareness	All	Press release OSCCAR presentation material (poster, presentation, keynote...) Website Social Media	At the end of the project

3.1.6 Dissemination activities done

#	Title/Event	Date	Location	Dissemination Activity	Goal/Impact	Target Audience	Resp. partner	Link
1	OSCCAR news entry on VIF Website	2018-06-15		<ul style="list-style-type: none"> Website 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Industry Scientific Community 	VIF	https://www.v2c2.at/osccar-2 (last accessed February 2019)
2	OSCCAR press information (Kick Off meeting)	2018-06-18 - 19	Graz, Austria	<ul style="list-style-type: none"> Non-scientific and non-peer reviewed publication (popularized publication) Press Release 	<ul style="list-style-type: none"> Inform and educate Promotion and selling Raising awareness 	<ul style="list-style-type: none"> Civil Society General Public Industry Media Scientific Community 	VIF	https://service.projectplace.com/pp/pp.cgi/r1568126801 (last accessed February 2019)
3	OSCCAR Kick Off Meeting	2018-06-18 - 19	Graz, Austria	<ul style="list-style-type: none"> Organisation of a Workshop 	<ul style="list-style-type: none"> Inform and educate Promotion and selling Raising awareness 	<ul style="list-style-type: none"> Civil Society General Public Industry Media Scientific Community 	VIF	

#	Title/Event	Date	Location	Dissemination Activity	Goal/Impact	Target Audience	Resp. partner	Link
4	OSCCAR Kick Off Meeting / News entry on OSCCAR Website	2018-07-03	Graz, Austria	<ul style="list-style-type: none"> Website 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Media Scientific Community 	VIF	http://osccarproject.eu/2018/07/03/osccar-official-project-start/ (last accessed February 2019)
5	OSCCAR Kick Off Meeting – News entry on OSCCAR Website	2018-07-03	Graz, Austria	<ul style="list-style-type: none"> Website 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Media Scientific Community 		http://osccarproject.eu/2018/07/03/osccar-official-project-start/ (last accessed February 2019)
6	Project Fiche for INEA	2018-07-09		<ul style="list-style-type: none"> Non-scientific and non-peer-reviewed publication (popularized publication) 	<ul style="list-style-type: none"> Inform and educate Promotion and selling Raising awareness 	<ul style="list-style-type: none"> General Public Industry Scientific Community 	VIF	https://service.projectplace.com/pp/pp.cgi/r159919627_1 (last accessed February 2019)
7	News entry on LMU Website	2018-07-13		<ul style="list-style-type: none"> Website 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Industry Scientific Community 	LMU	https://tuc-project.org/osccar-eu-project-for-future-vehicle-occupant-safety-takes-off/ (last accessed February 2019)

#	Title/Event	Date	Location	Dissemination Activity	Goal/Impact	Target Audience	Resp. partner	Link
8	OSCCAR description on SAFER Website			<ul style="list-style-type: none"> Website 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Industry Scientific Community 	VIF	https://www.saferresearch.com/projects/osccar (last accessed February 2019)
9	OSCCAR @ Carhs newsletter	2018-07-30		<ul style="list-style-type: none"> Website 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Industry Scientific Community 	VIF	http://www.safetywissen.com/#/object/A11/A11.3ca7369058t8vjfz22f383784n0zmw63668543978/safetywissen (last accessed February 2019)
10	Joint WS VIRTUAL PIONEERS, OSCCAR	2018-09-11	Athens, Greece	<ul style="list-style-type: none"> Website Participation to a Workshop 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> Scientific Community 		https://projectvirtual.eu/2018/09/11/joint-meeting-virtual-osccar-and-pioneer/ (last accessed February 2019)
11	Participation in IRCOBI 2018	2018-09-12 – 14	Athens, Greece	<ul style="list-style-type: none"> Exhibition, Participation to a Conferende 	<ul style="list-style-type: none"> Engage Inform and educate Promotion and selling Raising awareness 	<ul style="list-style-type: none"> Industry Media Scientific Community 	VIF	https://service.projectplace.com/pp/pp.cgi/r1792089034 (last accessed February 2019)

#	Title/Event	Date	Location	Dissemination Activity	Goal/Impact	Target Audience	Resp. partner	Link
12	Participation at carhs Human Modeling and Simulation in Automotive Engineering 2018, Berlin	2018-10-18 – 19	Berlin, Germany	<ul style="list-style-type: none"> Participation to a Conference 	<ul style="list-style-type: none"> Engage Promotion and selling Raising awareness 	<ul style="list-style-type: none"> Industry Scientific Community 	Bosch	<u>Website deleted</u>
13	News entry on ika/RWTH Website	2018-11-08	Aachen	<ul style="list-style-type: none"> Website 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Industry Media Scientific Community 	ika	https://www.ika.rwth-aachen.de/de/pressemitteilungen/2926-institut-f%C3%BCr-kraftfahrzeuge-ika-entwickelt-neue-insassenschutzprinzipien-f%C3%BCr-hochautomatisierte-fahrzeuge.html (last accessed February 2019)
14	News entry on Springer Professional Website	2018-11-14	Aachen	<ul style="list-style-type: none"> Website 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Industry Media Scientific Community 	ika	https://www.springerprofessional.de/automatisiertes-fahren/fahrzeugsicherheit/ehu-projekt-osccar-entwickelt-zukuenftige-insassenschutzsysteme/16266212 (last accessed February 2019)

#	Title/Event	Date	Location	Dissemination Activity	Goal/Impact	Target Audience	Resp. partner	Link
15	OSCCAR F2F Meeting Santa Oliva, Spain	2018-11-22 - 23	Santa Oliva, Spain	<ul style="list-style-type: none"> • Organistaion of a Workshop • Participation to a Workshop 	<ul style="list-style-type: none"> • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • Project partners 	VIF/Idia da as organisa tor; all partners as participa nts	
16	OSCCAR F2F Meeting Santa Oliva, Spain	2018-11-22 - 23	Santa Oliva, Spain	<ul style="list-style-type: none"> • Website • Social Media 	<ul style="list-style-type: none"> • Engage • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • General Public • Industry • Media • Scientific Community 		<p>OSCCAR Website: http://osccarproject.eu/2018/11/26/osccar-f2f-meeting-santa-oliva/</p> <p>LinkedIn: https://www.linkedin.com/feed/update/urn:li:activity:6481129710951636992</p> <p>(last accessed February 2019)</p>
17	14th International Symposium & Accompanying Exhibition on Sophisticated Car Safety Systems, 2018"	2018-11-27 – 28	Mannhei m, Germany	<ul style="list-style-type: none"> • Participation to a Conference • Poster • Scientific journals / conference proceedings 	<ul style="list-style-type: none"> • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • Industry • Policy Maker • Scientific Community 	Bosch, TU Graz	https://www.ict.fraunhofer.de/de/veranstaltungen_messen/veranstaltungen/airbag_2018.html (last accessed February 2019)

#	Title/Event	Date	Location	Dissemination Activity	Goal/Impact	Target Audience	Resp. partner	Link
18	WIRED.de article on OSCCAR	2018-11-29		<ul style="list-style-type: none"> Website Articles in thematic magazines or general press 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public 	ika	https://www.wired.de/article/warum-wir-uns-schon-jetzt-auf-die-autounfaelle-der-zukunft-vorbereiten-sollten (last accessed February 2019)
19	F2F Meeting, Santa Oliva Spain	2018-12-18	Santa Oliva Spain	<ul style="list-style-type: none"> Website Social Media 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Scientific Community 	VIF	Facebook: https://www.facebook.com/Virtual.Vehicle/photos/a.474654319294636/2053749958051723/?type=3&theater OSCCAR Website: http://osccarproject.eu/2018/11/26/osccar-f2f-meeting-santa-oliva/ VIF Website: https://www.v2c2.at/successful-osccar-project-meeting-in-spain/ LinkedIn: https://www.linkedin.com/feed/update/urn:li:activity:6481413899424919552 (last accessed February 2019)

#	Title/Event	Date	Location	Dissemination Activity	Goal/Impact	Target Audience	Resp. partner	Link
20	Brochure - ika Jahresrückblick 2018	12/2018		<ul style="list-style-type: none"> Flyer Leaflet 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Media Scientific Community 	ika	https://service.projectplace.com/pp/pp.cgi/r1349838884 (last accessed February 2019)
21	News entry on Autoliv Website			<ul style="list-style-type: none"> Website 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Industry Scientific Community 	Autoliv	http://safecarnews.com/autoliv-joins-project-osccar-for-future-automotive-safety/ (Link deleted)
22	Safety – First. Projekt OSCCAR steht in den Startlöchern!		Graz, Austria	<ul style="list-style-type: none"> Website Press Release Non-scientific and non-peer-reviewed publication (popularized publication) 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Media Scientific Community 	VIF	https://www.v2c2.at/de/safety-first-projekt-osccar-steht-in-den-startloechern/ (last accessed February 2019)

#	Title/Event	Date	Location	Dissemination Activity	Goal/Impact	Target Audience	Resp. partner	Link
23	Link from Autoliv Website to OSCCAR Website			<ul style="list-style-type: none"> Website 	<ul style="list-style-type: none"> Engage Inform and educate Promotion and selling Raising awareness 	<ul style="list-style-type: none"> General Public Scientific Community 	Autoliv	https://www.autoliv.com/innovation-and-research/research/cooperation (last accessed February 2019)
24	Link from LMU Website to OSCCAR Website		Munich, Germany	<ul style="list-style-type: none"> Website 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> General Public Industry Media Scientific Community 	LMU	https://www.rechtsmedizin.med.uni-muenchen.de/wissenschaft/bu/index.html (last accessed February 2019)

Table 3 Dissemination activities done

3.1.7 Dissemination activities planned

#	Title/Event	Date	Location	Dissemination Activity	Goal/Impact	Target Audience	Resp. partner
1	Article about OSCCAR project in Virtual Vehicle Magazine		Graz, Austria	<ul style="list-style-type: none"> Articles in thematic magazines or general press 	<ul style="list-style-type: none"> Inform and educate Raising awareness 	<ul style="list-style-type: none"> Industry Scientific Community 	VIF

#	Title/Event	Date	Location	Dissemination Activity	Goal/Impact	Target Audience	Resp. partner
2	IRCOBI 2019	2019-01-11 - 19	Firenze, Italy	<ul style="list-style-type: none"> • Organization of a Workshop • Participation to a Workshop • Scientific journals / conference proceedings 	<ul style="list-style-type: none"> • Engage • Inform and educate • Promotion and selling • Raising awareness 	<ul style="list-style-type: none"> • Industry • Media • Policy Makers • Scientific Community 	VIF
3	26. International Technical Conference on the Enhanced Safety of Vehicles (ESV), 2019	2019-06-10 - 13	Eindhoven, The Netherlands	<ul style="list-style-type: none"> • Participation to a Conference • Exhibition/booth 	<ul style="list-style-type: none"> • Engage • Promotion and selling • Raising awareness 	<ul style="list-style-type: none"> • Industry • Policy Makers • Scientific Community 	ZF
4	26. International Technical Conference on the Enhanced Safety of Vehicles (ESV), 2019	2019-06-10 - 13	Eindhoven, The Netherlands	<ul style="list-style-type: none"> • Participation to a Conference • Presentation 	<ul style="list-style-type: none"> • Engage • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • Industry • Policy Makers • Scientific Community 	Chalmers
5	AAAM 2019 - Association for the Advancement of Automotive Medicine: https://www.aaam.org/annual-conference/	2019-10-15 – 18	Madrid, Spain	<ul style="list-style-type: none"> • Scientific paper • Speech Keynote • Presentation 	<ul style="list-style-type: none"> • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • Industry • Media • Scientific Community 	VIF

#	Title/Event	Date	Location	Dissemination Activity	Goal/Impact	Target Audience	Resp. partner
6	VDI Fahrzeugsicherheit 2019	2019-11-27 - 28	Berlin, Germany	<ul style="list-style-type: none"> • Participation to a conference 	<ul style="list-style-type: none"> • Engage • Promotion and selling • Raising awareness 	<ul style="list-style-type: none"> • Industry • Scientific Community 	Bosch
7	Paper on results of 1st seat rotations study (T2.1)			<ul style="list-style-type: none"> • Scientific paper 	<ul style="list-style-type: none"> • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • Industry • Policy Makers • Scientific Community 	ika
8	Paper for TRA 2020	2020-04-27 - 30	Helsinki, Finland	<ul style="list-style-type: none"> • Participation to a Workshop • Scientific paper • Scientific journals / conference proceedings 	<ul style="list-style-type: none"> • Inform and educate • Raising awareness • Engage 	<ul style="list-style-type: none"> • General Public • Industry • Media • Policy Makers • Scientific Community 	VIF, all partners
9	Participation at carhs "Human Modeling and Simulation in Automotive Engineering" 2020, Wiesbaden	2020-10-15 - 16	Wiesbaden, Germany	<ul style="list-style-type: none"> • Participate to a conference • Scientific journals/conference proceedings 	<ul style="list-style-type: none"> • Engage • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • Industry • Scientific Community 	Bosch

#	Title/Event	Date	Location	Dissemination Activity	Goal/Impact	Target Audience	Resp. partner
10	15th International Symposium & Accompanying Exhibition on Sophisticated Car Safety Systems, 2020	2020	Mannheim, Germany	<ul style="list-style-type: none"> • Participate to a conference • Poster • Scientific journals/conference proceedings 	<ul style="list-style-type: none"> • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • Industry • Policy Makers • Scientific Community 	Bosch
11	VDI Fahrzeugsicherheit 2021	2021	open	<ul style="list-style-type: none"> • Participation to a Conference • Scientific journals/conference proceedings 	<ul style="list-style-type: none"> • Engage • Promotion and selling • Raising awareness 	<ul style="list-style-type: none"> • Industry • Scientific Community 	Bosch
12	27. International Technical Conference on the Enhanced Safety of Vehicles (ESV), 2021	2021	open	<ul style="list-style-type: none"> • Participation to a Conference • Scientific journals/conference proceedings 	<ul style="list-style-type: none"> • Engage • Promotion and selling • Raising awareness 	<ul style="list-style-type: none"> • Industry • Scientific Community 	Bosch
13	Newsletter	Month 9	Graz Austria	<ul style="list-style-type: none"> • Newsletter 	<ul style="list-style-type: none"> • Engage • Inform and educate • Raising awareness 	<ul style="list-style-type: none"> • General public • Media • Scientific community 	VIF

Table 4 Dissemination activities planned

3.1.8 Dissemination key performance indicators

For the evaluation of dissemination activities several key performance indicator (KPI) are defined. Some of them make it possible to review the effect of project dissemination activities already during the project runtime, some are more indicative of longer term scientific and community impact.

The relevant KPIs include:

- Number of press releases
- Number of scientific articles
- Number of citations
- Provided public deliverables
- Visitor numbers on website
- Number of downloaded publications
- Number of LinkedIn and Twitter activities (follower, likes, posts)
- Analysis of the comments with respect to its content and target group

To validate the success of communication and dissemination activities and to optimize the overall impact in OSCCAR, quantitative and qualitative indicators will be tracked and reported.

Indicators for success will be reported in D6.5 Final Exploitation Plan including the execution of the dissemination activities throughout the project.

4 CONCLUSION

In this document, a basic roadmap was given for activities planned in WP6. At the time of writing (month 9), first steps can be reported as finished:

- Project internal Projectplace
- Project Website online and continuously updates
- Dissemination Plan created (this document)
- Presentation and Dissemination Material created
- Regular meetings / reports of WP6 integrated in EB meetings
- First dissemination activities are done and planned (see section 3.1.6 and 3.1.7)

Planned activities have started and will be maintained throughout the project. If required, corrective actions will be suggested and discussed in the core team. In the timeslot for dissemination activities, among other things, it is discussed if the objectives regarding dissemination and communication are reached.

Summing up activities already carried out (end of February):

- 1 Articles in thematic magazines or general press
- 3 Exhibition, Participation to a conference
- 1 Flyer, Leaflet
- 3 Non-scientific and non-peer reviewed publication (popularized publication)
- 2 Organisation of a Workshop
- 2 Participation to a Workshop
- 1 Poster
- 2 Press Release
- 1 Scientific journals / conference proceedings
- 4 Social Media posts
- 16 Website entries

Summing up activities up to now planned for the next years:

- 1 Articles in thematic magazines or general press
- 1 Exhibition / booth
- 1 Organization of a Workshop
- Participation and dissemination activities at conferences and events
 - 1 Poster
 - 2 Presentation
 - 5 Scientific journals / conference proceedings
 - 1 Speech, Keynote
- 2 Participation to a workshop

- 1 Scientific Paper
- 1 Newsletter

These activities are already planned, but of course several more will happen even if not specifically planned yet.

As evaluation of work, deliverable D6.5 Final Exploitation Plan including the execution of the dissemination activities throughout the project, will report the results after three years of project execution.

5 REFERENCES

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- [7] OSCCAR Administrative Material: <https://service.projectplace.com/pp/pp.cgi/r1550428638> (last accessed: January 2019)
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- [17] European Automotive Research Partners Association (EARPA): <https://www.earpa.eu/earpa/home> (last accessed February 2019)
- [18] PIONEERS project: <http://pioneers-project.eu/> (last accessed February 2019)
- [19] VIRTUAL project: <https://projectvirtual.eu/> (last accessed February 2019)
- [20] OSCCAR Deliverable D6.5 “Final Exploitation Plan including the execution of the dissemination activities throughout the project” (due M36)

A. ANNEX A – OSCCAR DISSEMINATION MATERIAL

PRESS INFORMATION



PRESS INFORMATION



OSCCAR: EU project for future vehicle occupant safety takes off



The brand new EU Horizon 2020 research project "OSCCAR - Future Occupant Safety for Crashes in Cars" - develops a novel approach to radically improve the safety for all occupants involved in future vehicle accidents.

Highly automated vehicles will offer new, more comfortable sitting positions that consequently will be in need for advanced and novel restraint systems in order to best possible protect all occupants in future accident scenarios.

OSCCAR will therefore develop new advanced occupant protection principles and contribute to the improvement of diverse, omnidirectional, biofidelic and robust human body models (HBMs). These virtual, human-like (biofidelic) models form the basis for digital homologation necessities for coming vehicles. OSCCAR project joins an international partner consortium striving to establish an integrated, simulation assessment framework for complex scenarios. Its ambition is to pave the way for virtual-testing-based homologation. This includes the development of an exploitation strategy towards large scale implementation of virtual testing methods.

The OSCCAR project assembles 21 partners, including 19 from Europe and 2 from China. The project is coordinated by Virtual Vehicle Research Center in Graz/Austria and will run for 3 years, from June 2018 until May 2021.

www.osccarproject.eu

About OSCCAR:

A new generation of vehicles based on connectivity and high automation (**highly automated vehicles, HAVs**) will soon be present on our roads - promising fewer accidents and increased safety levels. At the same time, novel safety challenges need to be addressed. These include new, currently unknown accident scenarios resulting from future mixed traffic where HAVs and conventional driven vehicles share the same infrastructure and roads. HAV technology will allow the vehicle to become a platform for the occupants, and hereby especially the "driver". They can use their travel time for other, not driving related activities. Comfort and convenience enhancing features, such as relaxed sitting positions, rotated seats and even reclined sleeping positions will be available in future autonomously driven vehicles. These aspects will definitely increase the attractiveness of HAVs but require the development of more advanced safety systems for the new sitting positions like seat belts and airbags that are currently neither considered nor homologated.

The highest benefit of vehicle safety resulting from automated driving can only be achieved if occupant protection systems are also adapted accordingly. Current hardware-based testing methods and tools will no longer be sufficient to handle the high complexity of future accident scenarios. This also applies to the areas of design, development, assessment and homologation of advanced safety systems for HAVs. Thus improved virtual testing methods will be needed to supplement the development of HAVs. An important emerging design tool for virtual testing (VT) and homologation are advanced biofidelic, omnidirectional human body models (HBMs). HBMs will be able to assess the safety of new sitting positions for representative occupant populations.

HBMs have the potential to provide benefits for the design of traditional non-HAVs by taking into account the **heterogeneity of occupant population**. As HBMs are not a simulation model of a conventional Crash Test Dummy test device, but of a real human, containing bones, muscle, organs, etc. it is possible to scale them. They are therefore able to depict the characteristics of "a broad occupant population". Moreover, they allow to study injury mechanisms on a very detailed level, necessary for upcoming new restraint systems in the context of automated driving.

The OSCCAR project will provide the necessary virtual simulation tools for the development and assessment of advanced automated vehicle safety systems. Supported by a close **international collaboration** with North American and Asian partners, OSCCAR will lay the foundation for **future harmonized virtual testing** of advanced vehicle protection systems and the **homologation of future sitting positions**.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 700947



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OSCCAR Key Objectives:

- Understanding future accident scenarios involving passenger cars
- Demonstration of new advanced occupant protection principles and concepts
- Contribution to the development of diverse, omnidirectional, biofidelic and robust HBMs
- Establishment of an integrated, virtual assessment framework
- Contribution to the standardization of virtual testing procedures
- Development of an exploitation strategy towards large scale implementation of virtual testing methods

OSCCAR Key Figures:

Coordinator: VIRTUAL VEHICLE Research Center (Austria)

21 Partners from 8 countries (AT, BE, CN, DE, ES, FR, NL, SE)

- 4 OEMs
- 6 Tier suppliers
- 4 Research organizations
- 7 Universities

9 associated partners from Europe, Canada, Japan, South Korea, USA

Available resources:

- 7.5 Million € Budget

Project run time: From June 1, 2018 to Mai 31, 2021

PRESS INFORMATION

Partners:

The international OSCCAR consortium is composed of 21 partners from Europe and China:

- VIRTUAL VEHICLE Research Center (ViF)
- AUTOLIV DEVELOPMENT AB (ADS)
- BUNDESANSTALT FUER STRASSENWESEN (BAST)
- ROBERT BOSCH GMBH (BOSCH)
- CHALMERS TEKNISKA HOEGSKOLA AB (CHALMERS)
- DAIMLER AG (DAIMLER)
- EST GROUP (ESI)
- IDIADA AUTOMOTIVE TECHNOLOGY SA (IDIADA)
- LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN (LMU)
- RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN (RWTH)
- SIEMENS INDUSTRY SOFTWARE NV (SISW)
- TASS INTERNATIONAL SOFTWARE AND SERVICES BV (TASS)
- TOYOTA MOTOR EUROPE (TME)
- TECHNISCHE UNIVERSITAET GRAZ (TUG)
- UNIVERSITE DE STRASBOURG (UNISTRA)
- UNIVERSITAET STUTTIGART (USTUTT)
- VOLVO PERSONVAGNAR AB (VOLVO)
- VOLKSWAGEN AG (VW)
- ZF (ZF)
- TSINGHUA UNIVERSITY (TSINGH)
- CHINA AUTOMOTIVE TECHNOLOGY AND RESEARCH CENTER (CATARC)

+ 10 associated partners:
University of Waterloo, Wake Forest University, Wayne State University, Medical College of Wisconsin, University of Virginia, Hongik University, JARI, CLEPA, EARPA, EUCAR

PRESS INFORMATION

OSCCAR Team of Researchers and Industry:



The 2-day OSCCAR Kick-off event took place on June 18th - 19th in Graz / Austria

Contact:

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Marketing & Communications
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Figure 5 OSCCAR press information

OSCCAR



OSCCAR
FUTURE OCCUPANT SAFETY FOR CRASHES IN CARS

Future Accident Scenarios Integrated Assessment
Automated Driving
Omnidirectional Human Body Models
Advanced Occupant Protection Systems
Relaxed Sitting Positions Virtual Testing and Homologation

www.osccarproject.eu

The EU Horizon 2020 research project "OSCCAR - Future Occupant Safety for Crashes in Cars" - develops a novel, simulation based approach to safeguard occupants involved in future vehicle accidents.

Highly automated vehicles will offer new, more comfortable sitting positions that consequently will be in need for advanced and novel restraint systems in order to best possible protect all occupants in future accident scenarios.

OSCCAR will investigate future accident scenarios, develop new advanced occupant protection principles and contribute to the improvement of diverse, omnidirectional, biofidelic and robust human body models (HBMs). These HBMs form the basis for digital homologation necessities of future vehicles. OSCCAR joins an international partner consortium aiming to establish an integrated, simulation assessment framework for complex scenarios, in order to pave the way for virtual-testing-based homologation.

The OSCCAR project assembles 21 partners, including 19 from Europe and 2 from China. The project is coordinated by Virtual Vehicle Research Center in Graz/Austria and will run for 3 years, from June 2018 until May 2021.

www.osccarproject.eu








OSCCAR

OSCCAR Key Objectives:

- Understanding future accident scenarios involving passenger cars
- Demonstration of new advanced occupant protection principles and concepts
- Contribution to the development of diverse, omnidirectional, biofidelic and robust HBMs
- Establishment of an integrated, virtual assessment framework
- Contribution to the standardization of virtual testing procedures
- Development of an exploitation strategy towards large scale implementation of virtual testing methods

Contact:

<p>OSCCAR Project Coordinator DI Werner Leitgeb VIRTUAL VEHICLE osccar@v2c2.at www.osccarproject.eu</p>	<p>Marketing & Communications Wolfgang Wachmann VIRTUAL VEHICLE +43-316-873-9005 wolfgang.wachmann@v2c2.at www.v2c2.at</p>
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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 768947





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Page 2 of 2

Figure 6 OSCCAR fiche for EC



RESEARCH TOPICS

The EU Horizon 2020 research project "OSCCAR - Future Occupant Safety for Crashes in Cars" - develops a novel, simulation-based approach to safeguard occupants involved in future vehicle accidents.

RELEVANCE AND IMPACT

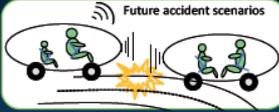
OSCCAR will contribute to the reduction of

- the amount of road fatalities
- the severity of injuries
- the number of injured persons for decades to come

- Provide a future accident & conflict scenario database for public use, in particular for OEMs Tier suppliers and road operators/ Infrastructure providers
- Establish protection principles for future occupant protection
- Lay the base for virtual assessment of advanced protection systems for conventional vehicles and HAVs
- Facilitate the evaluation and therefore the implementation of new and innovative safety solutions and related enabling tools that could boost the R&D of services and industries
- Pave the way for virtual homologation of future sitting positions for HAVs
- Define an accepted procedure for harmonized and more biofidelic HBMs allowing for an improved occupant safety for conventional vehicles and HAVs
- Enable a broad coverage of heterogeneous occupant population (gender, age, height, weight for conventional vehicles and HAVs)
- Show the applicability/usefulness of the developed framework for future safety systems by several selected demonstrators
- Secure the required full-scale manufacturing of critical products developed in the project in Europe by key players from European industry
- Boost harmonization and standardization on global level (Europe, US, Canada, South Korea, India, China)

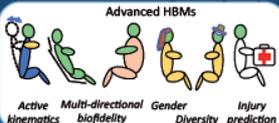
FUTURE ACCIDENT SCENARIOS:

- HAVs
- Mixed traffic
- Traffic simulation
- Driving situation
- Accident / collision parameters
- Future relevant accident matrix



Advanced HBMs

Active kinematics, Multi-directional biofidelity, Gender Diversity, Injury prediction



HBM DEVELOPMENT:

- Soft tissue
- Multidirectional biofidelity
- Biofidelic kinematics during pre- and in-crash phase
- Occupant heterogeneity
- Safety assessment capability of new sitting positions
- Agreed Injury criteria



HARMONIZATION AND RECOMMENDATIONS FOR VIRTUAL TESTING:

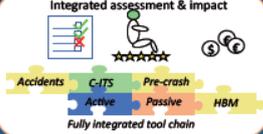
- Simulation comparability and harmonization
- Virtual testing validation requirements
- Injury criteria harmonization
- Volunteer testing for pre-crash kinematics

NEW RESTRAINT PRINCIPLES DEVELOPMENT:

- Vehicle interior uses cases
- Future sitting positions in HAVs
- Study on user expectations of future interior concepts
- New restraint principles
- Hardware and virtual testing
- Safety assessment with HBMs



Integrated assessment & impact



ROBUST AND EFFICIENT CRASH SIMULATION TOOLS FOR INTEGRATED ASSESSMENT & OVERALL IMPACT DEMONSTRATION:

- Simulation quality assessment
- Common boundary conditions
- Fully integrated assessment toolchain
- Common post processing for comparability
- Homologation path demo
- Benefit and Impact demo of virtual testing with HBMs



OSCCAR has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 68647.

WWW.OSCCARPROJECT.EU



PROJECT PARTNERS

The OSCCAR project assembles 21 partners, including 19 from Europe and 2 from China. The project is coordinated by VIRTUAL VEHICLE Research Center in Graz/Austria and will run for 3 years, from June 2018 until May 2021.



PROJECT COORDINATOR: virtual vehicle

PROJECT COORDINATOR
DI Werner Leitgeb

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E-MAIL
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WEBSITE
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DURATION
June 2018 to May 2021

21 PARTNERS FROM 8 COUNTRIES
4 OEMs
6 Tier suppliers
4 Research organizations
7 Universities

9 Associated partners from Europe, Canada, Japan, South Korea, USA



OSCCAR has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 68647.

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Future Accident Scenarios

Integrated Assessment

Automated Driving

Omnidirectional Human Body Models

Advanced Occupant Protection Systems

Relaxed Sitting Positions

Virtual Testing and Homologation

Understanding future accident scenarios involving passenger cars

Demonstration of new advanced occupant protection principles and concepts

Contribution to the development of diverse, omnidirectional, biofidelic and robust HBMs

Contribution to the standardization of virtual testing procedures

Development of an exploitation strategy towards large scale implementation of virtual testing methods

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Figure 7 OSCCAR project leaflet



OSCCAR

Future Occupant Safety for Crashes in Cars

Werner Leitgeb

Virtual Vehicle

www.osccarproject.eu



OSCCAR has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 768947.

Figure 8 OSCCAR general presentation for external communication



OSCCAR has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 732047

OSCCAR

FUTURE OCCUPANT SAFETY FOR CRASHES IN CARS



OSCCAR
FUTURE OCCUPANT SAFETY FOR CRASHES IN CARS

Future Accident Scenarios
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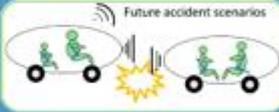
Objectives

- Understanding future accident scenarios involving passenger cars
- Demonstration of new advanced occupant protection principles and concepts
- Contribution to the development of diverse, omnidirectional, biofidelic and robust HBMs
- Contribution to the standardisation of virtual testing procedures
- Development of an exploitation strategy towards large scale implementation of virtual testing methods

Relevance and Impact

The EU Horizon 2020 research project "OSCCAR - Future Occupant Safety for Crashes in Cars" - develops a novel, simulation-based approach to safeguard occupants involved in future vehicle accidents.

- OSCCAR will contribute to the reduction of
 - The amount of road fatalities
 - The severity of injuries
 - The number of injured persons for decades to come



Future accident scenarios



Advanced HBMs

Active kinematics Multidirectional height/tilt Gender diversity Injury prediction



Harmonization of virtual testing



Integrated assessment & impact

Assessment Pre-crash Post-crash Fully integrated test chain



New restraint principles for new sitting positions

Austria

- KOMPETENZCENTRUM – DAS VIRTUELLE FAHRZEUG FORSCHUNGS GESELLSCHAFT MBH
- TECHNISCHE UNIVERSITÄT GRAZ

Sweden

- AUTOLIN DEVELOPMENT AB
- CHALMERS TEKNISKA HOGSKOLEN AB
- VOLVO PERSONVAGNAR AB

Germany

- BUNDESANSTALT FUER STRASSENWESSEN
- ROBERT BOSCH GMBH
- DAIMLER AG
- LUDWIG-MAXIMILIANS-UNIVERSITÄT

RUSCHEN

- RHEINGOLD-VESTFÄLISCHE TECHNISCHE HOCHSCHULE AACHEN
- UNIVERSITÄT STUTTGART
- TRW AUTOMOTIVE GMBH

France

- ESI GROUP
- UNIVERSITE DE STRASBOURG

Spain

- IDIADA AUTOMOTIVE TECHNOLOGY SA

Belgium

- SIEMENS INDUSTRY SOFTWARE NV
- TOYOTA MOTOR EUROPE

Netherlands

- TASS INTERNATIONAL SOFTWARE AND SERVICES BV

China

- TSINGHUA UNIVERSITY
- CHRA AUTOMOTIVE TECHNOLOGY AND RESEARCH CENTER



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START DATE JUNE 2018

DURATION 36

PARTICIPATING ORGANISATIONS 21

NUMBER OF COUNTRIES 8

ASSOCIATED PARTNERS 9

Figure 9 OSCCAR project poster

B. ABBREVIATIONS AND DEFINITIONS

Term	Definition
EB	Executive Board
KPI	Key Performance Indicators
LoS	Letter of Support
SEDIA	EC Single Electronic Data Interchange Area
SEO	search-engine optimization