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HORIZON 2020 PROGRAMME - TOPIC H2020-LC-BAT-2019
Strongly improved, highly performant and safe all solid-state batteries for
electric vehicles.

GRANT AGREEMENT No. 875189



SAFELiMOVE – Deliverable Report

D10.1 – Dissemination tools
(website, flyer, project templates)

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Summary

Effective dissemination and communication are important to ensure adoption of the SAFELiMOVE technologies during and after the project. This deliverable describes the SAFELiMOVE dissemination tools including project logo, website, templates for reports and presentations, flyer, newsletter and the explanation of the setting up and use of the dissemination database. The templates are created to support project presentations, deliverable reporting, meetings and internal reporting. Usage of standard templates ensure that there is consistency and conciseness in the way work is presented through the project duration.

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1 Introduction

The overall aim of WP10 - Dissemination, exploitation strategy & business plans- is to increase the visibility of SAFELiMOVE and support the impact of the project. To ensure this aim is achieved, the necessary dissemination and communication activities will be planned and undertaken. In addition, a continuous evaluation of impact and planning of exploitation activities are included. The WP10 objectives are:

- Maximise the dissemination of results and to express them in terms that are readily understandable;
- Effectively disseminate the new key performance indicators and test protocols to the market and regulatory agencies to encourage widespread adoption of new SSB standards and regulations;
- Promote the dissemination of the project findings through presentations at project workshops, technical conferences, scientific publications and the project website;
- Facilitate technology transfer and accelerate dissemination of the on-going project activities.

Dissemination is the public disclosure of the results of the project in any medium. It is a process of promotion and awareness-raising right from the beginning of a project. It makes results known to various stakeholder groups (like research peers, industry and other commercial actors, professional organisations, policymakers) in a targeted way, to enable them to use the results in their own work. To ensure maximum outreach of the project activities and results, it is of paramount importance to have a dissemination and communication strategy. This document describes the creation of the SAFELiMOVE project website, the flyer, the newsletter, the project templates and the Twitter account as part of SAFELiMOVE's dissemination strategy. The dissemination tools were developed by Uniresearch (UNR) and CENTRO DE INVESTIGACION COOPERATIVA DE ENERGIAS ALTERNATIVAS FUNDACION, CIC ENERGIGUNE FUNDAZIOA (CICe) with contributions from all project partners.

The dissemination tools are created as part of Subtask 10.1.1-Dissemination tools and materials. Within his subtask a graphical project identity was composed of visual elements that represent the project. It includes a logo, fonts, colours and templates for presentations and text documents and is in line with the website, the project flyer, and the newsletters. The graphical identity is important for consistent and recognizable communication and dissemination; and together with the guidelines and templates will save time and effort for the members of the consortium. This Deliverable D10.1 describes the results of the activities mentioned above.

2 SAFELiMOVE logo



Figure 1 – SAFELiMOVE Logo with colour information

An exclusive logo for the SAFELiMOVE-project was created. During the project, the logo will be used on all the dissemination tools.

3 Templates

In order to support the management of the project and to accommodate and support the partners in their activities a set of templates has been developed:

- Template for internal technical reporting; is for the internal monitoring procedure/system of the activities, carried out within SAFELiMOVE each 6 months (Figure 2).
- Template for deliverables; is used by the partners to report on the project deliverables. It contains all the necessary parts of the deliverable reports, like front/title page, publishable summary, description of work performed, conclusions, risk registry and acknowledgement Figure 3 – SAFELiMOVE Deliverable report (Figure 3 Figure 3).
- Template for GA/WPLB presentations; including Gantt chart, objectives of the WP, progress, risk identification, status of milestones and deliverables, publications and conferences, planned activities next 6 months (GA) (Figure 4).
- Template for GA/WPLB agenda; is used to create the meeting agenda (Figure 5).
- Template for GA/WPLB minutes; is used to create minutes of online and offline meetings (Figure 6).

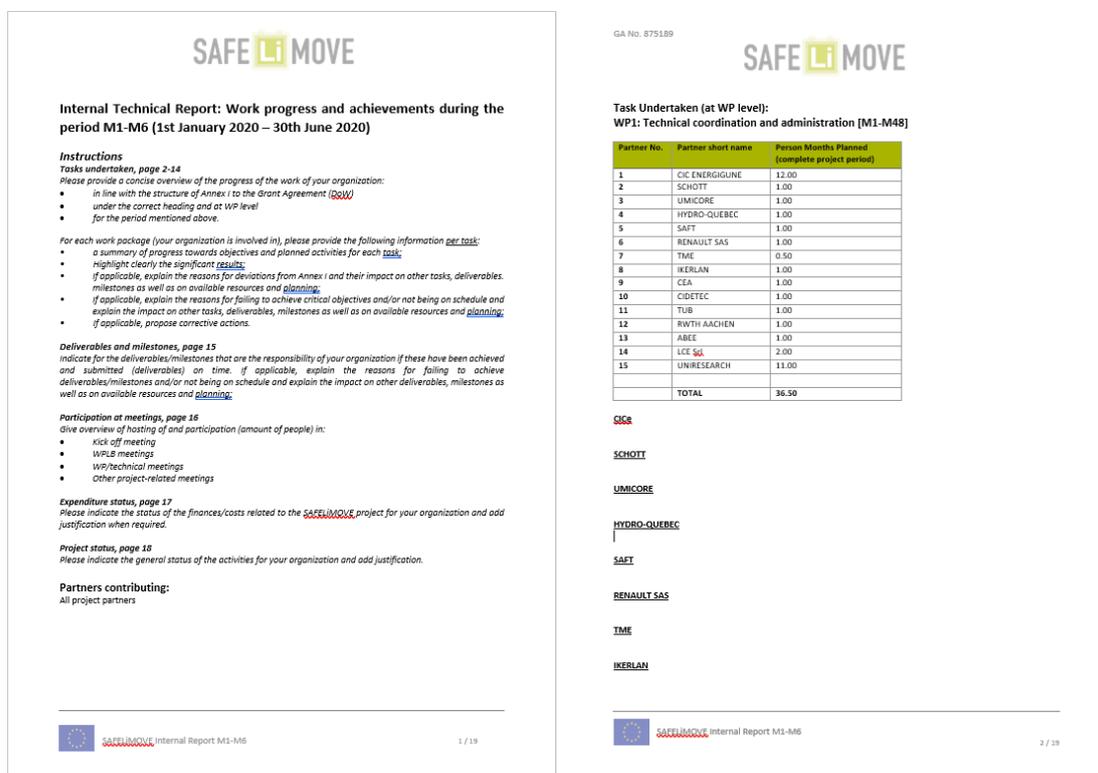


Figure 2 – SAFELiMOVE Internal report template, first two pages

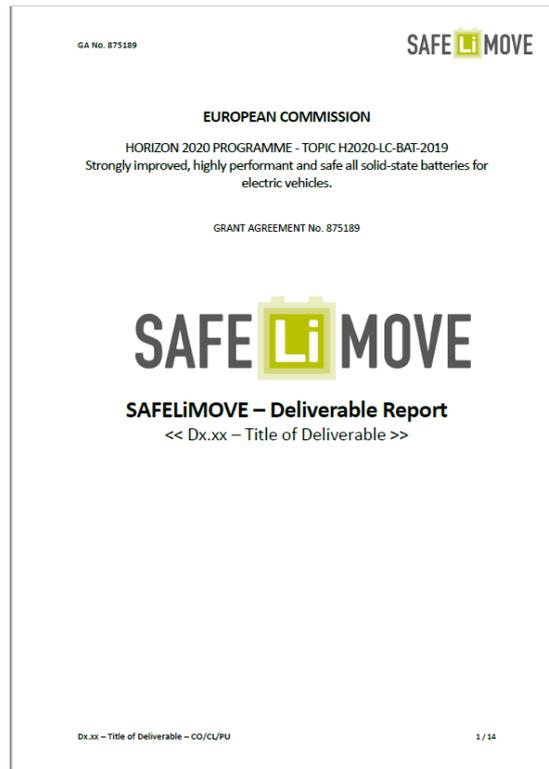


Figure 3 – SAFELiMOVE Deliverable report title page

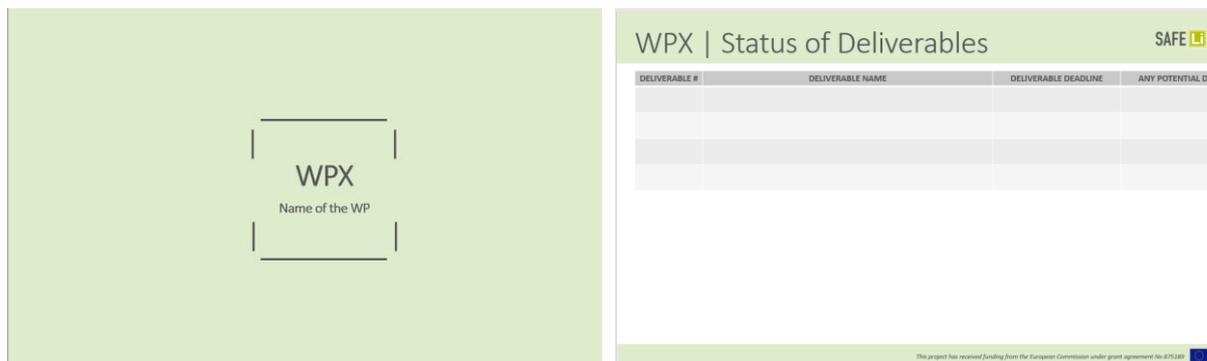


Figure 4 - SAFELiMOVE presentation template, example slides

4 Mett

Mett is an online tool used in SAFELiMOVE to share documents within the consortium (only accessible to the project partners). The tool is hosted by UNR. Documents can be downloaded, uploaded, commented, shared, and new versions can be processed. Examples of documents that are stored on Mett are contractual documents (GA, CA), (draft) deliverables, internal and periodic reports, meeting agendas and notes, templates and manuals. Any personal data stored on the Mett Platform is processed in accordance with the applicable privacy legislation and the processing agreement concluded between UNR and Mett. In this agreement, UNR is the controller and Mett is the processor.

5 SAFELiMOVE Website

The project website is the main tool to communicate information about the SAFELiMOVE-project and its activities to a wide community. Next to the project website, SAFELiMOVE also uses the document exchange platform Mett (see Chapter 4) which is a partner restricted area.

The website will be updated during the project and maintained for a number of years thereafter.

As can be seen in Figure 7, the website has an attractive format which is supported by icons and images that have a relation to the project. The purpose of this aspect is to give the website a modern and appealing look and feel. More images will be implemented in the website during the project execution e.g. when relevant project results are produced and made available for dissemination.

The website has been designed to act as a contact point for third parties and the public who are interested in the progress and/or outcomes of the SAFELiMOVE-project. It has a navigation menu structure which provides pages with different content.

Homepage

The homepage presents the fundamentals of the project; a brief summary of the project, the partners involved including their logo and links to the websites of each consortium partner, a results button, and updates from the news and events pages.

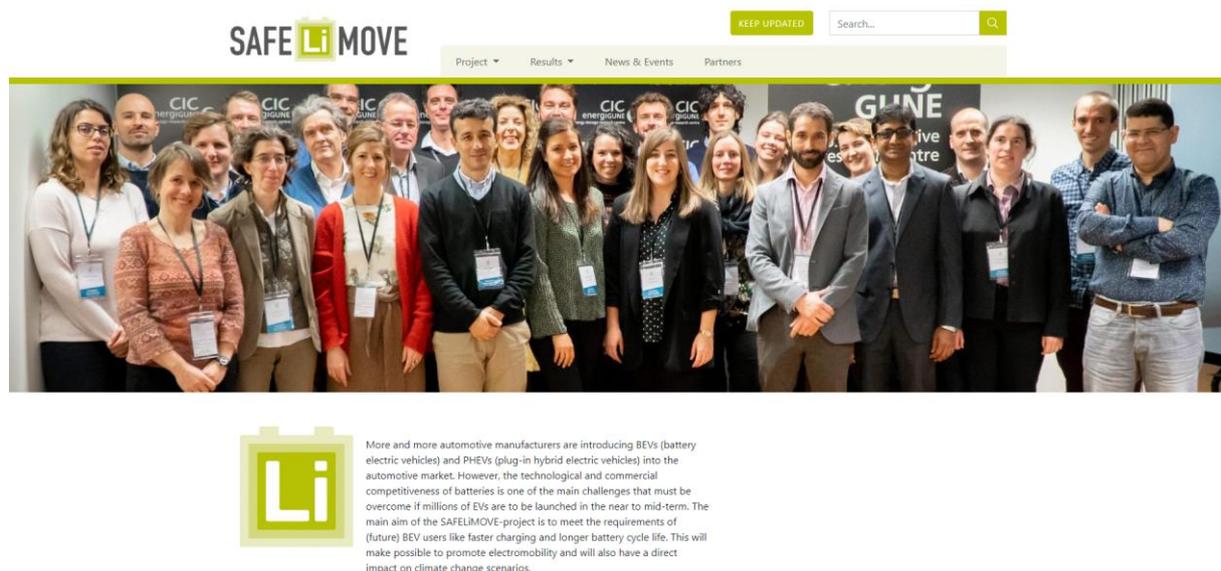


Figure 7 - SAFELiMOVE website: Homepage & Navigation Menu

To facilitate this, SAFELiMOVE will develop a new solid-state-based technology to produce a safe, reliable and high performing battery.

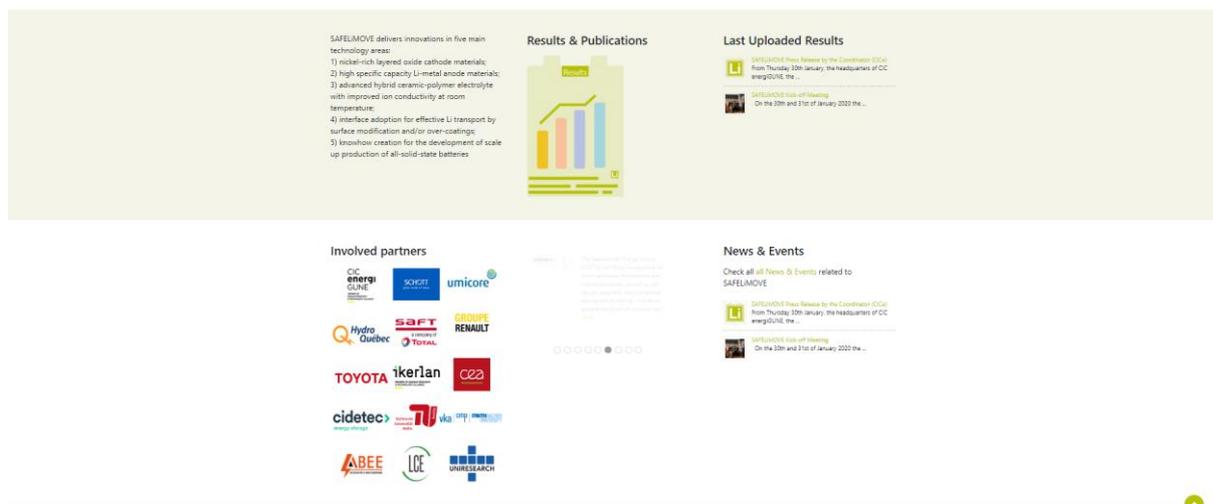


Figure 8 - SAFELiMOVE website: Homepage, Results & Partners

Navigation menu system

On the top of each page the navigation menu can be found. From the menu it is possible to select the following topics: Project, Results, News & Events, Partners. The navigation menu is supported by a considerable number of hyperlinks which will lead the visitor to the right pages.

Project

In the section 'Project' (Figure 9) the overall concept of the SAFELiMOVE-project is explained. This gives the visitor an overview of the project, which also can be shared online (Facebook, LinkedIn, twitter, email) with the tools found on the left side of the page.

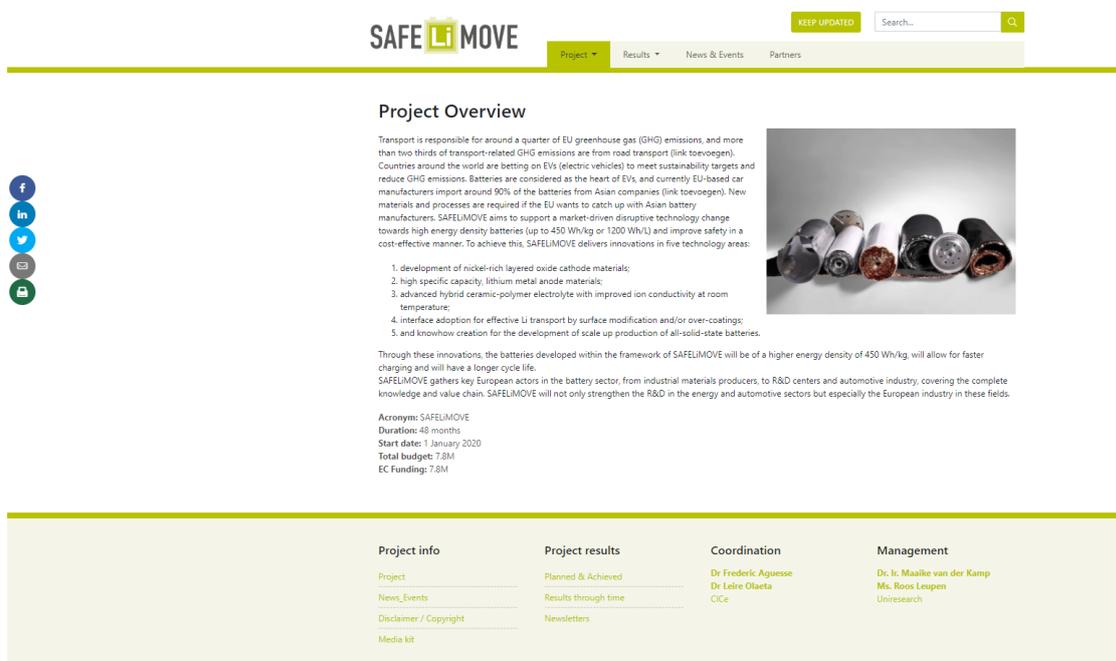


Figure 9 - SAFELiMOVE website: Project Overview

Results

The 'Results' section consists of three subsections; Results through time, Planned & Achieved, and Publications. In the section 'Results through time' visitors can find updates on the SAFELiMOVE project linked to a visual timeline. News and events will be included in the timeline as well.

In the subsection 'Planned & Achieved' visitors can find every deliverable related to the project (Figure 10). When a deliverable has been submitted, it can be downloaded it from the website (by simply clicking on the deliverable title). If a deliverable is public, this will be the full deliverable. If a deliverable is confidential, the public summary will be available.

The screenshot shows the 'Planned & Achieved' section of the SAFELiMOVE website. The page has a navigation bar with 'Project', 'Results', 'News & Events', and 'Partners'. A search bar and a 'KEEP UPDATED' button are also visible. The main content area lists several deliverables with their titles, lead partners, and public summaries. Social media icons for Facebook, LinkedIn, Twitter, Email, and Print are on the left.

Planned & Achieved

The results of the SAFELiMOVE project will be documented in reports. The overview below shows the planned reports divided over the different topics. When a report is available, the document can be accessed by clicking on the title. Please note that when a report contains confidential information, only the public summary will be available.

Specifications and requirements for battery cells
Lead partner: TME

1. Specifications, performances & cost requirements for small and large cells | Public Summary
2. Plan & criteria for the concept validation | Public Summary

Advanced material set (anode/electrolyte/cathode)
Lead partner: SCHOTT AG

1. Electrochemical performance in standard Li-ion battery and powder properties of developed cathode materials | Public Summary
2. Physical and electrochemical characterization of Li anodes | Public Summary
3. Synthesis and characterization of hybrid electrolyte for Level 1-3 materials | Public Summary

Materials processing (electrode, electrolyte) and small cell design
Lead partner: CIDETEC

1. Small prototype cells design and assembly definitions | Public Summary
2. High throughput testing (HTT) on micro full cells for materials and deposition screening and optimization | Public Summary
3. Electrodes and electrolyte processing development | Public Summary

Solid-solid Interface analysis
Lead partner: CIC ENERGIGUNE

1. Characteristics of hybrid electrolyte surfaces and interface characterization | Public Summary
2. Characterization & stability of solid-solid interfaces in full cell configuration, prior- and post-cycling. Level 1-3 materials | Public Summary

Cell design development and 10 Ah cells prototyping
Lead partner: SAFT

Figure 10 - SAFELiMOVE website: Planned and Achieved

In the subsection 'Publication' visitors can find each publication or article that is related to the SAFELiMOVE project.

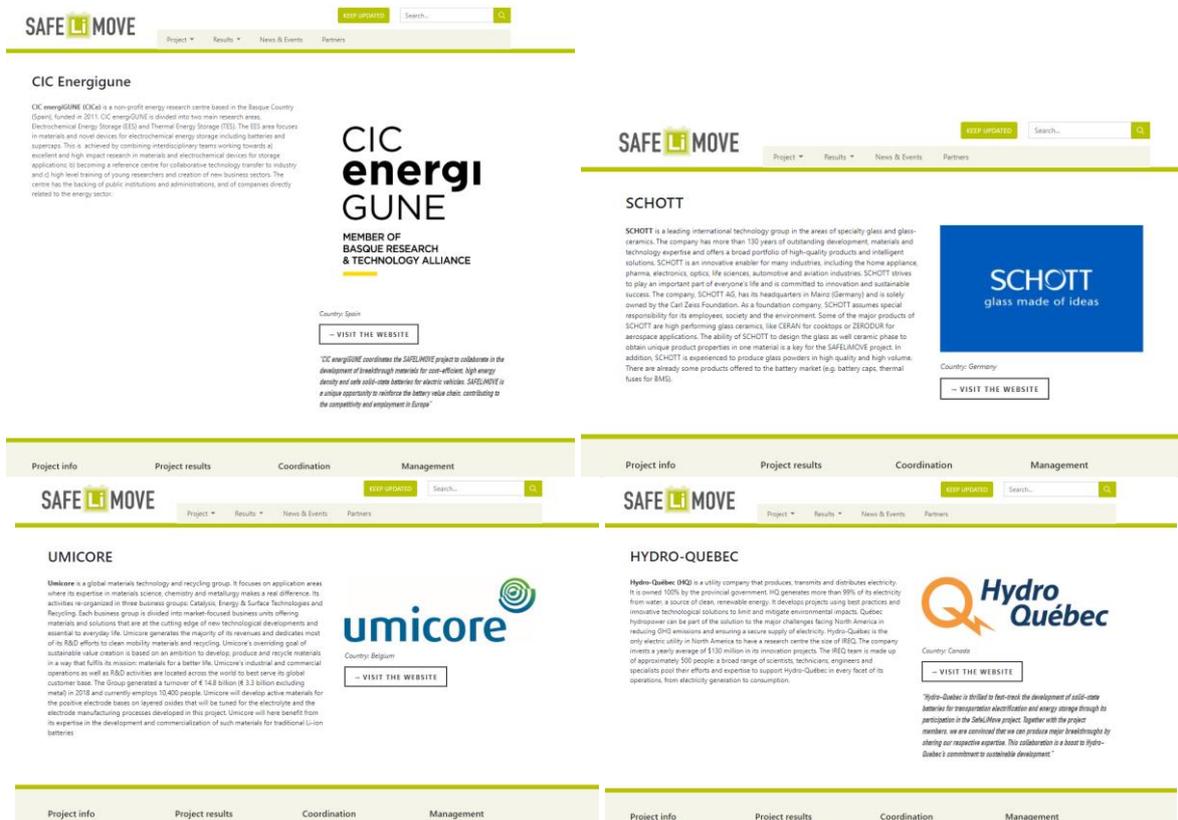
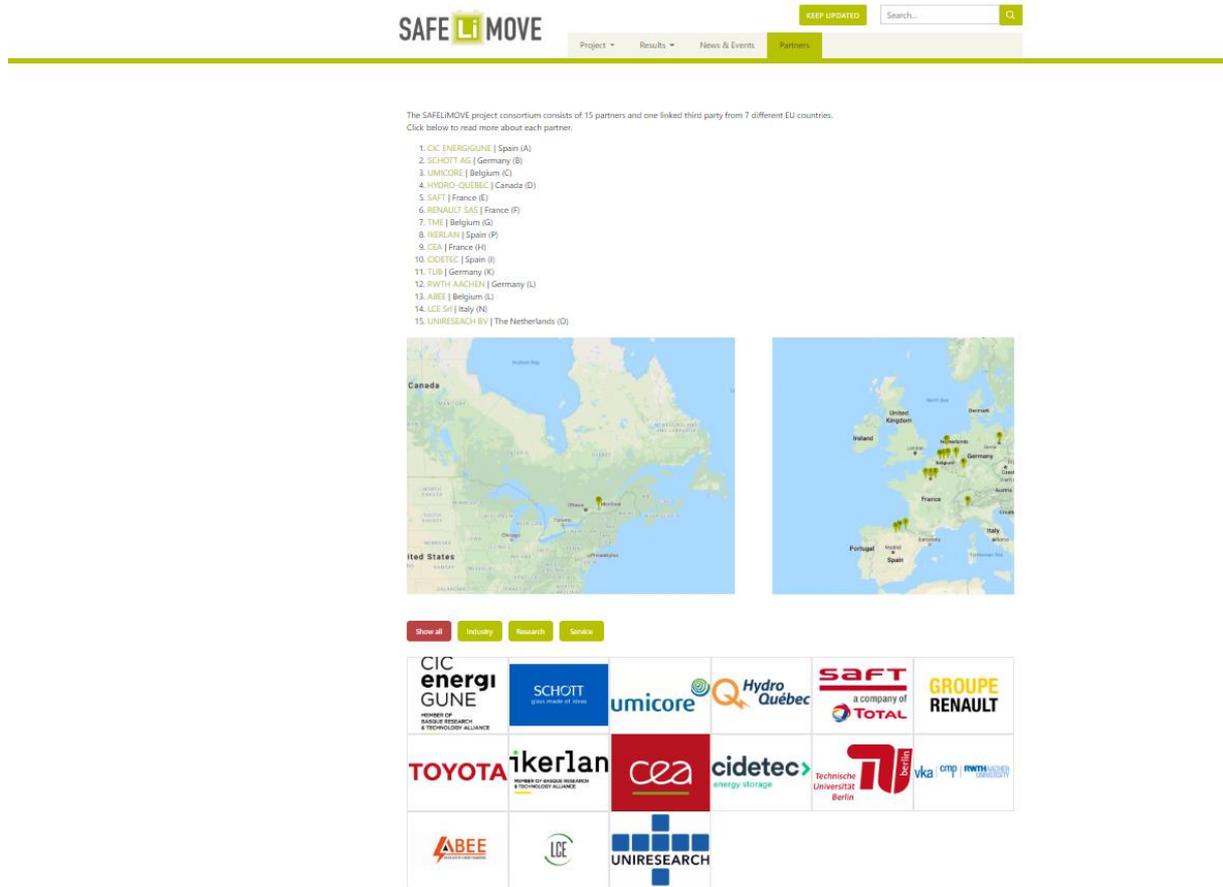
News & Events

The News & Events section will be updated regularly throughout the project. This is in line with the dynamic character of the website and encourages the visitors to return to the website regularly.

Every post on the 'News & Events' page will have simple share buttons in the format of a bar on the left side of the page. If visitors would like to share a post via social media (Facebook, LinkedIn, Twitter), this will be the way to do so. It is also possible to send the post via email or print it.

Partners

In the section 'Partners' an overview is presented of all project beneficiaries. It also includes a map that shows where each partner is located. The partners have also been grouped into three different categories (Industry, Research, Service) for easier identification of "who-does-what". The Partners page is shown in Figure 11. From there visitors can connect directly to each partner's subpage which includes a short description of each partners and a link to its official website (Figure 12).



Keep updated

When clicking on the button 'Keep updated' (shown on the top of each page) visitors will be directed to the page where they can subscribe to the SAFELiMOVE project newsletter (Figure 13). Interested visitors can register by providing their email address, first name and last name. The contact information will only be used for the SAFELiMOVE newsletter, which will communicate project-related information.

The screenshot shows the SAFELiMOVE website header with the logo, a 'KEEP UPDATED' button, and a search bar. Below the header is a navigation menu with 'Project', 'Results', 'News & Events', and 'Partners'. The main content area features a 'Stay up-to-date' section with a heading 'subscribe to the SAFELiMOVE-project newsletter' and a paragraph explaining the newsletter. A form for signing up is centered, with fields for 'E-mail address *', 'First name *', 'Last name *', and 'Company', followed by a 'Subscribe' button. At the bottom, there is a footer with four columns: 'Project info', 'Project results', 'Coordination', and 'Management', each containing links to various project-related pages.

SAFE **Li MOVE** KEEP UPDATED

Project ▾ Results ▾ News & Events Partners

Stay up-to-date

subscribe to the SAFELiMOVE-project newsletter

The SAFELiMOVE-project newsletter will be sent annually. Please subscribe below if you would like to receive the newsletter.

E-mail address *

 First name *

 Last name *

 Company

Project info	Project results	Coordination	Management
Project	Planned & Achieved	Dr Frederic Aguesse	Dr. Ir. Maaïke van der Kamp
News_Events	Results through time	Dr Leire Olaeta	Ms. Roos Leupen
Disclaimer / Copyright	Newsletters	CICe	Uniresearch
Media kit			

Figure 13 - SAFELiMOVE website: Newsletter signup

6 Newsletter

Throughout the project, bi-annual newsletters will be published reporting the project results achieved in the different periods. Below in Figure 14 you can find the first newsletter. The newsletter is created in Laposta by UNR with input from the coordinator CiCe. Every item includes a link, which leads you to the website of SAFELiMOVE. This will create more interaction and more visitors for the SAFELiMOVE website. The newsletter will be distributed to the contacts registered in the contact database, the database will be updated via registration via project website and input received from partners.

SAFELiMOVE Newsletter - May 2020 [View webversion](#)



The newsletter features a large header with the SAFELiMOVE logo. The main content is organized into several sections:

- Dear lector:** A message from the coordinator about the project's mission and the kick-off meeting.
- SAFELiMOVE Kick-off Meeting:** A report on the meeting held at CIC energGUNE in Spain, including a group photo of the participants.
- Project partners:** A grid of logos for participating organizations such as ENEC, STIB, umiker, High Voltage, SIBAT, FENATEC, TOYOTA, ikerlan, OGA, cidetec, TU, ABBE, and others.
- Upcoming Deliverables:** A list of key milestones including the Initial Risk Management plan, Dissemination plan, Data management plan, and Plan & criteria for concept validation.
- SAFELiMOVE Press Release:** Information about the press release issued by the coordinator, CIC energGUNE.
- SAFELiMOVE website is live!** A section highlighting the new website and providing links to project overview, results, news, and partners.
- Deliverable Specifications:** A section discussing the development of a dynamic Excel calculation sheet for cell parameters, accompanied by a bar chart showing performance metrics.
- battery with solid-state electrolyte:** A section with images of laboratory equipment and researchers working on the development of solid-state electrolytes.

At the bottom, there is a funding acknowledgment from the European Union's Horizon 2020 program and social media icons for home, LinkedIn, and Twitter. A footer contains an unsubscribe link and the Laposta logo.

Figure 14 – SAFELiMOVE Newsletter

7 Project Flyer

To create awareness about the SAFELiMOVE project, a flyer has been created which can be shared online and offline. The flyer contains information regarding the SAFELiMOVE project; partners, contact details, facts & figures, objectives, and anticipated results. Colours and graphics have been used that are equal to the logo, which makes the flyer consistent with other SAFELiMOVE dissemination tools like presentations and website.

Partners

CIC energi GUNE, SCHOTT, umicore, Hydro Québec, SAFT (a company of TOTAL), GROUPE RENAULT, TOYOTA, ikerlan, cea, cidetec, Technische Universität Berlin, vka, UNIRESEARCH, ABEE, LCE, UNIRESEARCH

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SAFELiMOVE
 advanced all Solid state sAEE Lithium Metal technology tOwards Vehicle Electrification

- Li Acronym: SAFELiMOVE
- Li Duration: 48 months
- Li Start date: 1 January 2020
- Li Total Budget: 7.8M
- Li EC Funding: 7.8M

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement no. 875189.

OBJECTIVES

More and more automotive manufacturers are introducing BEVs (battery electric vehicles) and PHEVs (plug-in hybrid electric vehicles) into the automotive market. However, the technological and commercial competitiveness of batteries is one of the main challenges that must be overcome if millions of EVs are to be launched in the near to mid-term.

SAFELiMOVE aims at developing a new cost-effective (< 100 € /kWh from a high volume production perspective towards 2030), room temperature operating all-solid state battery technology. This technology will increase the energy density (450 Wh/kg and 1200 Wh/l), the safety and affordability of EVs, and meet the requirements of driving autonomy, cycle life, charging time required by EV users.

SAFELiMOVE

Innovative next generation materials

- Cathode:** High specific capacity (>200mAh/g) Mixed with NMC. Starting at 8.1.1
- Electrolyte:** Highly conductive hybrid ceramic-polymer electrolyte (towards 10⁻³S/cm at 25°C) for room temperature operation.
- Anode:** High specific capacity LiM (3000mAh/g)

Advanced optimized interfaces

Li Metal, Current Collector, LHM, SSP, PSE/CE, SSE/Cathode, Catholyte/NMC

Cell design and processing

- * Towards high loadings
- * Towards high energy density thin solid processing
- * Novel solutions for highly reactive LiM anodes and all-solid-state battery processing
- * New DMS design for all-solid state batteries

Future market vision

- * Cost model development
- * Increase battery life and performance while reducing cell cost
- * Sustainability/Recycling & LCA
- * Large scale battery production roadmap towards 2030
- * IP and know-how protection

RESULTS

SAFELiMOVE delivers innovations in five main technology areas:

- 1) nickel-rich layered oxide cathode materials,
- 2) high specific capacity Li-metal anode materials,
- 3) advanced hybrid ceramic-polymer electrolyte with improved ion conductivity at room temperature;
- 4) interface adaption for effective Li transport by surface modification and/or over-coatings;
- 5) knowhow creation for the development of scale up production of all-solid-state batteries

Figure 15 – SAFELiMOVE Flyer

8 Database

In addition to the project website, a dissemination database has been created for SAFELiMOVE. The structure of the dissemination database has been created by UNR. Contacts and information will be added to the dissemination database throughout the entire project lifetime. The source of the contacts for dissemination purposes are the partners (their clients, collaborators), possible linked projects, and the SAFELiMOVE website (via the 'keep updated' option).

In the database, the following information will be collected (whenever possible) for each contact:

- Full name
- Email address
- Name of organisation
- Focus and type of organisation (e.g. research, local authority, automotive company, EU Commission, legislation/standardisation, etc.)
- Connection to the project
- Country and postal address

The dissemination database will be saved in Mett and will be managed in compliance with the General Data Protection Regulation (GDPR). In addition to the contact database, the dissemination database also holds an overview of all dissemination activities related to the SAFELiMOVE project. These activities include scientific publications, presentations of results related to the project at conferences or workshops, as well as general information in the form of flyers or (digital) newsletters.

9 Acknowledgement

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

Project partners:

#	Partner	Partner Full Name
1	CICe	CENTRO DE INVESTIGACION COOPERATIVA DE ENERGIAS ALTERNATIVAS FUNDACION, CIC ENERGIGUNE FUNDAZIOA
2	SCHOTT	SCHOTT AG
3	UMICORE	UMICORE
4	HYDRO-QUEBEC	HYDRO-QUEBEC
5	SAFT	SAFT
6	RENAULT SAS	RENAULT SAS
7	TME	TOYOTA MOTOR EUROPE NV
8	IKERLAN	IKERLAN S. COOP
9	CEA	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
10	CIDETEC	FUNDACION CIDETEC
11	TUB	TECHNISCHE UNIVERSITAT BERLIN
12	RWTH AACHEN	RHEINISCH-WESTFAELISCHE, TECHNISCHE HOCHSCHULE AACHEN
13	ABEE	AVESTA BATTERY & ENERGY ENGINEERING
14	LCE Srl	LIFE CYCLE ENGINEERING SRL
15	UNIRESEARCH BV	UNIRESEARCH BV