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Self-healing functionalities for long lasting battery cell chemistries

Research and Innovation Action (RIA)



BAT4EVER

Autonomous Polymer based Self-Healing Components for high performant LIBs

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Plans for Dissemination of the Results

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ABSTRACT FOR DISSEMINATION

Abstract

The target of this deliverable is the presentation of the project dissemination plan. The project dissemination activities include the use of promotion and communication tools, communication channels and participation to events. The project website, launched in June 2021, and the LinkedIn account, opened at the end of the year 2020, are the key tools for publishing project information, releasing public deliverables and promoting events in the framework of the project activities. Project results will be shared with the scientific community by publishing scientific articles and conference abstracts. This deliverable presents the list of the project outcomes, which are planned to be shared with the stakeholders, with indication of the target audience and dissemination channels. The time schedule for the dissemination of the project materials is also established in this deliverable and aims at monitoring and controlling the dissemination activities for their successful implementation.

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LIST OF PARTNERS

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5	 io-li-tec Ionic Liquids Technologies	IOLITEC IONIC LIQUIDS TECHNOLOGIES GMBH	IOLITEC GmbH	Germany
6	 UNIVERSIDAD COMPLUTENSE MADRID	UNIVERSIDAD COMPLUTENSE DE MADRID	UCM	Spain
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8	 VESTEL	VESTEL ELEKTRONIK SANAYI VE TICARET ANONIM SIRKETI	VEL	Turkey
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ABBREVIATIONS

Acronym	Description
AB	Advisory Board
CSA	Coordination and Support Action
EC	European Commission
EU	European Union
IPR	Intellectual Property Rights Strategy
KPI	Key Performance Indicator
NDA	Non-Disclosure Agreement
WP	Work Package

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EXECUTIVE SUMMARY

This deliverable, D7.2 'Plans for dissemination of the results' belongs to the Task 2 of WP7 – Dissemination, Exploitation & Market Analysis and describes the development and integration of the dissemination plans for the successful project identification and recognition of project's goals, objectives and obtained research results.

This report is divided into 3 main sections:

- **Section 1** presents the project communication and dissemination strategy and describes the communication activities used during the project implementation.
- **Section 2** illustrates how the project outcomes will be shared within the scientific community and stakeholders. The generated table with the project dissemination plan includes the target audience and channels used for the dissemination of the project results.
- **Section 3** presents the time schedule for the dissemination of the project materials, which will be used for monitoring and controlling the dissemination activities in order to provide their successful implementation.

Deliverable 7.2 is considered a living document. This first version sets the overall dissemination policy to be followed, identifies target audiences and communication channels and sets a time plan. The next two versions (M24, M36) will present dissemination results (intermediate, final) along with possible updates to the plan.

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1. COMMUNICATION AND DISSEMINATION STRATEGY

The main objective of the dissemination strategy is to transfer the project knowledge and results to the targeted audiences, enabling them to take up and embed these into their own activities.

The dissemination activities aim to gain awareness and recognition of the project as well as its goals, objectives and obtained research results among the European stakeholders, scientists and users.

Figure 1 illustrates the targeted audiences of the BAT4EVER project.

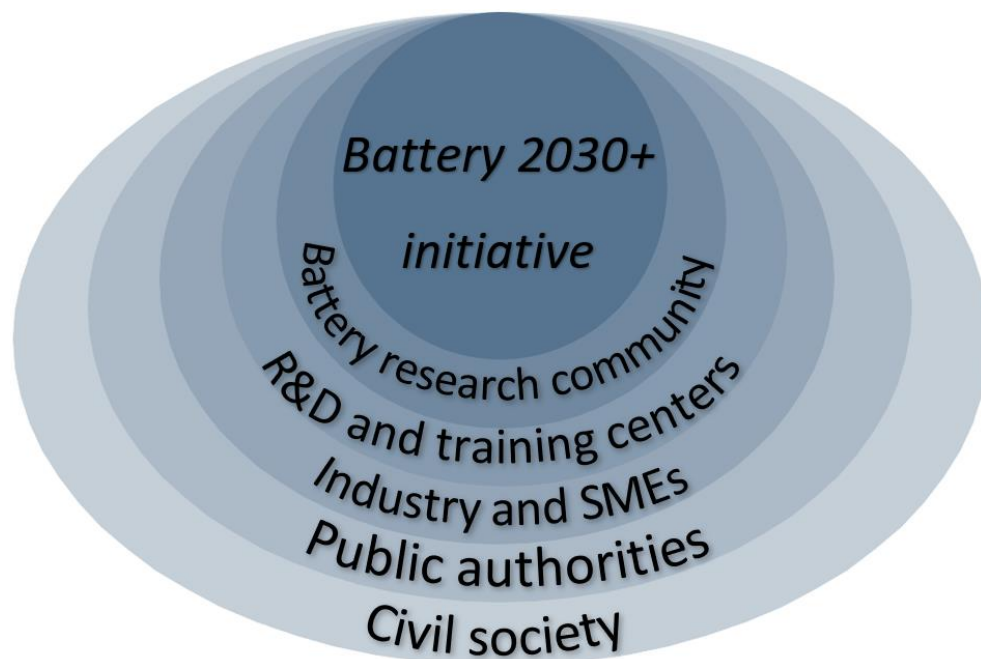


Figure 1: Schematic of the targeted audiences of the BAT4EVER project

As per article 29 of the Grant Agreement, it is mandatory that any dissemination of results in the framework of or throughout the BAT4EVER project (in any form, including electronic) includes the EU emblem and a statement that the project has received funding from the EU (see Figure 2).

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Figure 2: Statement of acknowledge EU funding

1.1 Communication activities

Communication activities will integrate some underlying aspects such as:

- Transnational cooperation in a European consortium and how collaborative working contributes more and greatly than that done separately.
- The project results aim the merit of Scientific excellence.
- Contribution to European competitiveness and solving societal challenges with the work addressed in the work packages (WP).
- Serving for security of Europeans in using battery powered devices.
- Impact on everyday lives in Europe: creation of jobs, development of new technologies, better quality products, safety, durability and sustainability.
- Spinning-off results towards European policy makers, industry and the scientific community.

Small robotised devices and their manufacturers for industrial and household applications, as well as final consumers (families, automated industries) of these devices are identified as particularly important addressing the application areas of a wider audience. Communication activities will inform and demonstrate the positive societal, environmental and economic impacts generated by BAT4EVER, emphasising the change brought in daily life of final users by the innovative, long-lasting and damage tolerable batteries produced.

All the project communication tools (videos, newsletters, publications), promotion and branding materials will be available to the Consortium of partners through the EMDESK management tool and repository.

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1.1.1 Branding

The project logo and visual identity were developed at the Kick-Off General Assembly of the Project (M2). The designed branding will be used for all the dissemination, promotion and communication materials and tools used for the project.

1.1.2 Promotion tools

Brochures, roll-up, posters of BAT4EVER conveying the key (expected) results, participants, funding will be developed to promote the project.

1.1.3 Communication tools

Videos

To present and promote the project, it is planned to produce a short video giving relevant information on the project main objectives, goals and challenges as well as its relation within the BATTERY 2030+ initiative. The video will be produced by the BATTERY2030+ initiative. In addition to this official video, success stories related to cell component and battery types will be released and will be used to present specific progresses of the project and will be used for further exploitation purposes.

Newsletter

To convey the key information about the project and obtained results, a Newsletter will be issued every 6 months in pdf-format and will be made public on the project webpage and social media account. The Newsletter will be distributed electronically to its subscribers requesting through the tool at the footer of the webpage.

1.1.4 Communication channels

Project website

The website, www.bat4ever.eu, was launched during the first week of June 2021 (M10), and is the key tool for publishing project information, events, deliverables, and dissemination of the BAT4EVER results.

The project website will be continuously maintained and updated during the project implementation to keep the audience informed, to maintain the interest of attracted visitors and to provide interaction between the project partners as well as with those within the BATTERY 2030+ initiative. Changes and additional improvements are foreseen through the

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lifetime of the project and will be immediately fed onto the webpage, according to the available information and progress of the project activities.

An analytic tool to track the traffic statistics (for instance, number of visitors, geographically distribution of visitors, number of downloaded documents) was not included in the initial version of the webpage, but can be included at a later stage if considered necessary and when the legal requirements are met.

In order to increase the visibility and accessibility as well as for optimising the communication about the project, project partners are encouraged to reference the project results through their own organisation communication and dissemination channels (i.e. website, Social Media, Newsletter etc.).

Social Media

The LinkedIn account of the BAT4EVER project has been opened at the end of the year 2020 and is one of the main tools for external communication. The social media account is being regularly fed with the news and activities from the battery community. Besides sharing information with the targeted audience, such a social media account allows to establish connections with other projects and initiatives in the battery community by following dedicated accounts.

The project partners are encouraged to share posts with project news and updates within their networks, using hashtags that refer to the project (#Bat4Ever; #H2020; #battery2030; #Battery; #EU).

Further social media accounts will be considered for their suitability according to the needs of the BAT4EVER project.

Publications and Patents

To disclose the project results with the scientific community, it is planned to publish up to 10 scientific publications in relevant impact journals privileging those with higher H-Index (scientific impact). The relevant journals are included in Table 1.

Table 1: Relevant Scientific Journals and H Index

Journal of American Chemical Society	Nano Letters	Chemistry of Materials
Analytical Chemistry	Macromolecules	ACS Nano
Journal of Power Sources	Journal of Materials	Energy & Environmental Sciences
Journal of the Electrochemical Society	Electrochimica Acta	Nature Communications
Solid State Ionics	ACS Applied Energy Materials	Advanced Energy Materials
Materials Chemistry A	Nano Energy	ACS Macro Letters (60)

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The publications will be split among partner universities and research centres along the project implementation, either in collaboration or in an individual manner.

Possible topics based on the BAT4EVER materials will include:

- self-healing anode;
- self-healing cathode;
- polymerised electrolytes;
- ionogel-introduced ionic liquids;
- advanced characterisation of pouch cell batteries;
- manufacturing of self-healing components;
- testing under given conditions applicable to the target product;
- processes occurring during operation related to the aimed self-healing mechanisms and prevention of any sort of damages within self-healing battery.

BAT4EVER project partners are committed to Open Access Publishing as per the EU requirement and will promote and prioritise Open Access publications. Furthermore, as already stated in the Grant Agreement, the consortium will set up a repository for publications coming out of the project following the green open access principle. For this purpose, the use of Zenodo: <https://zenodo.org/> is considered. In addition, the use of Open Research Europe will be considered and encouraged to disseminate and exploit the projects results.

Each partner must ensure the use of Open Access possibility to the peer-reviewed scientific publications relating to its results.

The bibliographic metadata must be in a standard format and must include (Grant Agreement, article 29):

- the terms "European Union (EU)" and "Horizon 2020";
- the name of the action, acronym and grant number;
- the publication date, and length of embargo period if applicable, and
- a persistent identifier.

The dissemination act also includes the contributions as Guest Editors in Special issues that periodically follow with different topics and in different open access journals. For that, initially the mpdi-journal "Batteries" and Wiley journal on Energy Materials are targeted.

Project partners who own patentable knowledge may (and are encouraged to) make patent applications at their own expense or employ similar form of protection tools as far as these were declared in their project budget. The costs related to the Intellectual Property Rights Green script serves as reminder to the project partners and AB members.

(IPR), including the costs to protect the results or royalties paid for access rights needed to implement the action, are eligible costs under H2020 as per the Annotated Model Grant Agreement (Article 6.2.D.3). The project partners are requested to supply details of such application to the BAT4EVER partners.

Applications for protection of results (including patent applications) must include the EU emblem and acknowledgement of EU funding as per Article 27 of the Grant Agreement.

International Advisory Board

The Advisory Board (AB) will integrate platforms and networks at European, national and regional level, companies along the European batteries value chain, research institutions and other stakeholders.

The Advisory Board has already been established and includes four relevant European associations with large communication and dissemination potential in the technological and scientific fields of the project: Siemens, CustomCells, ENGIE Laborelec and JSR Micro.

Additional members may join the Advisory Board through the lifetime of the project if considered relevant.

This group will join project meetings such as the General Assembly meetings and have the opportunity to discuss the intermediate research results with the BAT4EVER project partners and thus contribute to the success of the project and enable further dedicated workshops with the relevant stakeholders.

An NDA will be signed between the project partners and the Advisory Board in order to protect the data generated within the project.

BATTERY2030+ CSA

BAT4EVER will actively contribute to the joint efforts coordinated by the BATTERY 2030+ coordination and support action (CSA) comprising the following tasks: communication & dissemination exploitation and intellectual property rights strategy (IPR) strategy, identify and contribute to guidelines and best practice for data sharing & FAIR Data, educational curricula, roadmap development, infrastructure and interoperability.

1.1.5 Events

The participation to events and meetings has an important impact on the dissemination of project deliverables and research results and allows to make the project widely known.

The following events will be considered during the project implementation:

- Participation and presentation of the project and its results in innovation and networking events.

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- Participation to workshops and technological fairs and exhibitions in order to approach national and European stakeholders to promote BAT4EVER results towards decision makers and battery supply chain economic and research operators.
- Participation to workshops in the framework of the BATTERY 2030+ initiative.
- Organisation of mid-term and final meetings with the EC.
- Organisation and participation to bilateral meetings with the sister projects in the framework of the BATTERY 2030+ initiative.

2. PROJECT DISSEMINATION PLAN

Table 2 illustrates how the project outcomes will be shared within the scientific community and stakeholders.

Table 2: BAT4EVER Dissemination Plan

Project results to disseminate	Target Audience	Key message	Channels	Activity
Advanced self-healing materials for energy storage breakthroughs	Advanced materials and cell components manufacturers, R&D centres, standardisation agencies, public authorities (EU, state, region)	Use of these advanced materials substantially improves batteries features and reduces import dependence on critical raw materials	1. Project website 2. Scientific journals 3. Congresses and conferences 4. International, European & State specialised networks and platforms 5. European Commission dissemination channels 6. Networking with other H2020 projects related to battery materials and manufacturing applications.	1. Website (M6): Update info using communication layout. 2. Scientific journals: Send papers for publishing >10. 3. Congresses & conferences: Organisation of events. Attend external events to present results. WP8 4. Networks & platforms: Present project breakthroughs supported by communication & dissemination tools). 5. EC dissemination channels: Participate in EC dissemination events & Upload materials in repository. 6. Networking within H2020: Participate in other projects' dissemination events, invite other projects to BAT4EVER dissemination events
Anode, cathode and electrolytes breakthroughs	Cell components and battery cell manufacturers, R&D centres, standardisation agencies	Use of these cell components substantially improve batteries performance and sustainability		
New pouch cell Si-based batterie	Battery cell manufacturers, small robotised devices for industry and household applications manufacturers, R&D centres, battery recycling companies, standardisation agencies	Use of these batteries substantially improve features of SoA Li ion batteries for small robotised devices, electronics, industrial, space and household applications		
New pouch cell high voltage batteries				
New manufacturing techniques for	Advanced materials, cell components,	Use of manufacturing techniques can		

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advanced materials, cell components, cells, batteries and recycling	battery cells, manufacturers, recycling companies, R&D centres, standardisation agencies	improve competitiveness, sustainability along the batteries supply chain		
Innovative business cases along the supply chain	Venture capitalists, investors	Very high ROI for investing on the innovative business models based on novel technologies and manufacturing processes	Investors, venture capitalists forums	Presentation of business cases to potential investors funding TRLs upgrading to 9.
Training materials	Training centres. Training services of batteries advanced materials, cell components, battery cells, and recycling companies	Workers can adapt to new technology breakthroughs through the project lifelong learning materials	Congresses, conferences, networks & platforms on upskilling gathering companies & training centres; European Commission dissemination channels; Networking with other H2020 & Erasmus+ projects	Courses offered to workers for presenting training materials in project events -see WP8- and external congresses, conferences, networks & platforms. Uploading of training materials in EC repositories. Sharing training materials with other EU projects.
Policy recommendations	Public authorities (EU, state, region)	Regulatory changes may contribute to strengthening EU batteries supply chain competitiveness & sustainability	Congresses, conferences, networks & platforms participated by public authorities	Organisation of project events - see WP8- & attendance to external events for presenting policy recommendations
Standardisation recommendations	Standardisation agencies	New technologies, methods, products & services need to integrate existing standards and generate new ones	Direct relationship with CEN & CENELEC	Collaboration with existing Standardisation Technical Committees; Technical proposals for new or revised normative documents.

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3. MONITORING AND ASSESMENT OF THE DISSEMINATION ACTIVITIES

Table 3 presents the time schedule for the dissemination of project materials.

Table 3: BAT4EVER Dissemination Schedule

Activity	Resp. Partner	Project Year 1 / Month												Project Year 2 / Month												Project Year 3 / Month																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36								
Website	DLR																																												
Newsletter	DLR																																												
LinkedIn	DLR																																												
Webinars	All																																												
Journal publications	All																																												
Special Issues as Guest Editors	All																																												
Conferences	All																																												
Meetings with EC	All																																												
Patents	All																																												
D7.2 report																																													

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Table 4 shows the BAT4EVER communication and dissemination Key Performance Indicators (KPIs) and those achieved so far by M11 of the project. This table will regularly be updated with the status of the dissemination activities - at minimum in M24 and M36.

Table 4: Indicative tools for dissemination activities

Indicative tool	KPIs	Delivered by M11
Press releases	≥15	7
Conference contributions (as a presenter)	up to 20	1
Scientific publications	up to 10	0
Workshops organised	2	0
Bilateral meetings organised with sister projects	>3	1
Citations	60 and more	0
Appearances in social media, incl. popular scientific media	up to 10	1
New collaborations	cannot be pre-defined	5
Awards	cannot be pre-defined	0
Newsletter	5	1

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4. CONCLUSIONS

The aim of the presented deliverable D7.2 “Plans for dissemination of the results” is to give a detailed overview on the dissemination strategy for project presentation and promotion as well as to implement the ways for the development of dissemination throughout the project duration. Several communication tools, including project website, LinkedIn account, Newsletter will be used for sharing information on the project, its activities and obtained research results. The general dissemination plan includes a list of communication and circulation ways and media to disseminate the project’s results, the target audience, key messages and channels which are planned to be used. The control and monitoring of the project’s dissemination activities will be done based on the created items and time schedule.

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REFERENCES

BAT4EVER Website Privacy Policy

BAT4EVER Grant Agreement Number 957225

BAT4EVER Consortium Agreement

H2020 Annotated Model Grant Agreement, Version 5.2

BATTERY 2030+ website: <https://battery2030.eu/>

EMDESK Management tool: <https://emdesk.eu/cms/?p=145&>

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