



## NEWSLETTER #01 - May 2023

In this newsletter, you will learn more about the project PULSELiON latest activities and the activities to come. The next newsletter will be published in October 2023. Would you like to stay informed about the latest PULSELiON news in the meanwhile? Please stay tuned via our website, or follow us on LinkedIn and Twitter.

Project PULSELiON has the ambition to develop a manufacturing process for Generations 4a – 4b solid-state batteries, while improving the battery energy density (450 Wh/Kg and 1200 Wh/L), costs and safety. The main innovation in project PULSELiON is bringing Pulsed Laser Deposition (PLD) based solid-state battery manufacturing technology from TRL3 to TRL6. The results of PULSELiON will help increase global competitiveness of the European battery ecosystem, increase safety of batteries, decrease battery production costs, and improve battery recyclability. PULSELiON is a Horizon Europe project bringing together a multidisciplinary consortium of 15 partners from 10 countries.

## WHAT IS NEW?

### Project PULSELiON kicks off

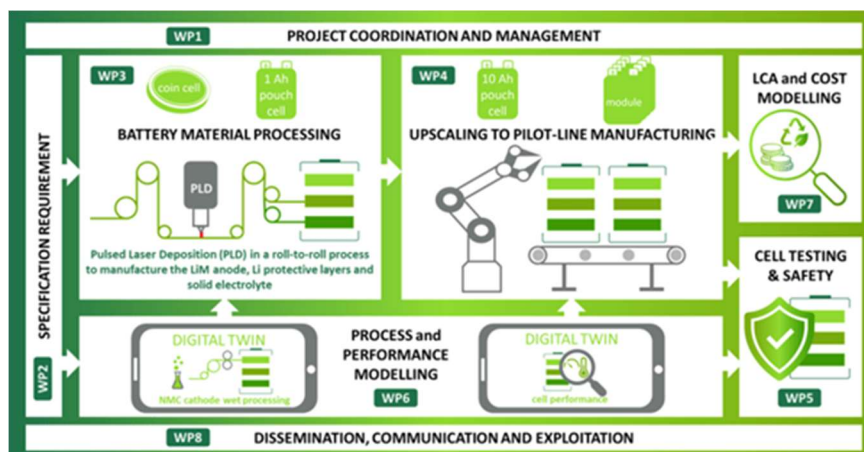
On 28 September 2022, project PULSELiON has kicked off its activities with a meeting at the Stockholm premises of the project coordinator RISE in Sweden. It was a perfect occasion to have teambuilding activities and to work on the next steps in the project. All partners were very engaged and delivered good inputs to the meeting. The EC Project Officer participated in the meeting digitally, and

gave us useful guidance for the project execution. We look back at a successful meeting and look forward to a fruitful collaboration.



## Launch of the project PULSELiON website and social media channels

We are proud to announce that the project website was launched on 9 February 2023. You can visit our website at [www.project-pulseion.eu](http://www.project-pulseion.eu). From now on, this will be the portal where you can get to know the consortium and learn more about PULSELiON and our progress. Of course, you can also follow us on [Twitter](#) and [LinkedIn](#)



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## First project results are delivered

Partners from PULSELiON have accomplished the first development stage of the cell concept based on components prepared by Pulsed Laser Deposition (PLD) technique. In deliverable D3.1, a protocol for safe handling and sulfide-based material and waste treatment has been established. As well as the assembly and interlaboratory testing of a reference cell with high voltage cathode, a sulfide electrolyte and Li metal anode. The results obtained in this Round Robin Test are going to be used as the baseline for the cells developed in project PULSELiON. A public summary of the report can be downloaded from our [website](#).

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## Second project meeting and laboratory visit at PULSEDEON in Finland

On 19 and 20 April 2023, our 2nd General Assembly meeting took place for project PULSELiON, hosted by PULSEDEON in Ii, Finland ([www.pulsedeon.com](http://www.pulsedeon.com)). We have discussed the project progress, a lot of technical details, the planning and the risks. Also, we visited the technology center of PULSEDEON to see the Pulsed Laser Deposition (PLD) technology for Solid State battery manufacturing with our own eyes. A teambuilding workshop was held to further connect the team, and we have made a first step identifying the project stakeholders in a communication workshop. Curious for an impression of the meeting? Have a look at the video posted on our [LinkedIn](#) channel.



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## Presentation of the partners

Project PULSELiON is built on the expertise of its partners. We have launched a social media campaign on our [Twitter](#) and [LinkedIn](#) channels to introduce the partners to the public. So, follow us on these channels to learn more about the universities, research centres and companies that form the heart of project PULSELiON.

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## PULSELiON joins the Solid4B cluster

Seven Horizon Europe projects have joined forces in the Solid4B cluster, to cluster their efforts and share knowledge on battery development. By working together, these projects can converge their resources and expertise to accelerate progress in this field. PULSELiON is proud to be part of this Solid4B cluster, together with projects SPINMATE, ADVAGEN, AM4BAT, SOLiD, SEATBELT and HIDDEN.



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## WHAT IS NEXT?

### Interview video with the project specialists

Soon an interview video will be published with some of the specialists behind project PULSELiON. Senior researcher and project coordinator Anwar Ahniyaz (RISE) and specialists Ville Kekkonen (PULSEDEON) and Jyrki Lappalainen (PULSEDEON) will tell us more about the PULSELiON technology and impact. We will also show you some footage from the PULSEDEON cleanroom in Li in Finland. Stay tuned on the website [www.project-pulseion.eu](http://www.project-pulseion.eu) and our social channels!

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### Next consortium meeting

The next consortium meeting is scheduled after the summer. We will discuss the progress, the planning and the status of the risks. Also, we will have a next communication workshop and activities to further build the team. Of course, we will update you about the outcome on our website and social channels.

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### Concept animation video

A short animation video will be created and shared via our website and social channels after the summer. It will allow everyone to understand the goals and the work of project PULSELiON.

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## Upcoming project results

The safe handling & testing protocol, as well as the Solid-State battery recycling process flow design will be delivered soon. A public summary report will be published on our website and announced on our social channels.



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