



# ADVAGEN

## DELIVERABLE REPORT



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**Development of ADVAnced next GENeration Solid-State batteries for Electromobility Applications**

**GA n° 101069743**

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**Participant responsible:** ABEE  
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Nature of the Deliverable		
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SEN	Sensitive

Quality procedure			
Date	Version	Reviewers	Comments
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12/01/2023	V1.2	Amaia Arrizabalaga (CICe)	Overall revision
17/01/2023	V1.3	Joana Gouveia and Inês Ribeiro (INEGI)	Overall revision
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27/01/2023	V2.0	Andrea Itziar Pitillas Martinez (ABEE)	Implementation of final corrections
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16/06/2023	V4	Takwa BENISSA (ABEE)	Corrections as Martha GIALAMPOUKI's request

## Project summary

This report is one of the deliverables from the "ADVAGEN" (Development of ADVAnced next GENeration Solid-State batteries for Electromobility Applications) project, which has received funding from the European Union's Horizon Europe research and innovation program under grant agreement No. 101069743.

To date, the battery market is dominated by lithium-ion (Li-ion) chemistries, as the energy density has more than doubled, and their costs have dropped by a factor of at least 10. However, conventional Li-ion batteries (LIB) are reaching their performance limits regarding energy density and facing safety issues. As such, this requires developing and producing new battery generations, such as Solid-State Batteries (SSBs), so a new industry value chain in Europe towards their commercialization is created. Consequently, high-energy-density EU-made SSBs will ensure the supply of, among others, the automotive sector. To do so, developing and deploying new manufacturing technologies, enabling large-scale production of SSBs, is crucial. Indeed, among the overarching themes to develop and produce sustainable batteries in the future, the BATTERY 2030+ roadmap considers manufacturability as a cross-cutting key area. Innovative and scalable manufacturing techniques to produce SSBs will accelerate cost reduction, energy savings, and enhanced safety. ADVAGEN will develop a new lithium metal (LiM) battery cell technology based on a safe, reliable, and high-performing hybrid solid-state electrolyte (LLZO-Sulfide based), gaining a competitive advantage over the worldwide (mainly Asian) competition. This will sustainably strengthen the EU as a technological and manufacturing leader in batteries, as specified in the ERTRAC electrification roadmap and SET-Plan Action Point-7. ADVAGEN consortium contains key EU actors in the battery sector, from industrial materials producers (such as CPT), and battery manufacturers (such as ABEE) to R&D centers (IKE, CEA, IREC, TUB, CICE, POLITO, INEGI, UL, FEV) and the automotive industry (TME), covering the complete knowledge and value chain. ADVAGEN aims to re-establish European competitiveness in battery cell production by developing high-performance, affordable, and safe batteries.

## Objective and Executive summary

The ADVAGEN Data Management Plan illustrates the data collection process, processing, generation, and storage within the ADVAGEN project. The following description includes the approach and the standards implemented during this process. The primary purpose of the data management plan is to ensure that the data is FAIR in a way that allows data to be findable, accessible, interoperable, and reusable as much as achievable. The first section of this report explains the adopted methodology for data management, and the second section illustrates how ADVAGEN maintains the FAIR data principles for each work package. Toward the end of the project, the latest version of this document will be submitted as a separate deliverable. At the moment of writing this deliverable, all the deliverables and related tasks have been achieved based on what is mentioned in the grant agreement and on time.