

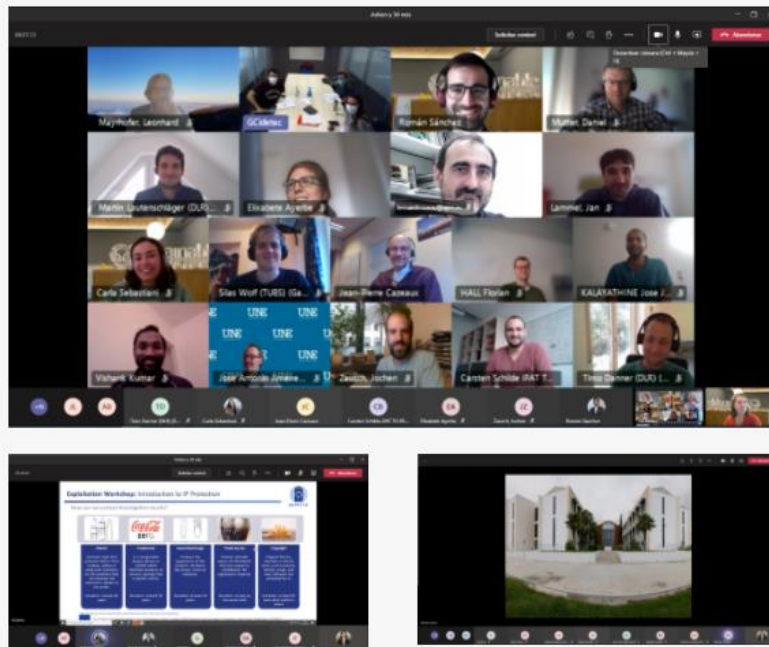


Newsletter 3 – December 2020



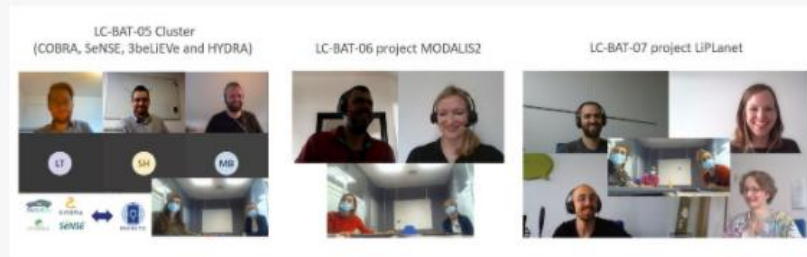
## The DEFACTO project completes its first year

DEFACTO has completed its first year after the kick off that took place in January 2020 at the facilities of the project coordinator CIDETEC in San Sebastián, Spain. To celebrate it, all the partners gathered in a consortium meeting where they assessed the work and activities performed and planned for the upcoming ones.



In addition, Sustainable Innovations (SIE) held an exploitation workshop to identify the Key Exploitable Results of the project, and the Centre for Research and Technology Hellas – CERTH, held a virtual visit to its laboratories and facilities, where the meeting was initially planned. Due to COVID-19, it was celebrated online instead.

[Read more](#)



## DEFACTO meets related projects to explore synergies

María Yañez Díaz and Elixabete Ayerbe Olano, from our coordinator entity CIDETEC, held an online meeting with representatives from the [LC-BAT-05 Cluster](#), which is formed by the related projects [COBRA](#), [SeNSE](#), [3beLIEVe](#) and [HYDRA](#), in order to look for synergies and potential ways of collaboration.

In addition they also met representatives from the LC-BAT-06 project [MODALIS2](#) and from the LC-BAT-07 project [LiPlanet](#) with the same goal. All these projects have in common their aim to boost the cell and battery industries for the automotive sector in Europe.

[More information](#)



## Four DEFACTO partners speak about their involvement in the project

Four of the DEFACTO project partners were interviewed about their expectations and their main role in the project.

- ▶ Silas Wolf, from the [Technical University of Braunschweig \(TUBS\)](#), spoke about the work they will carry out on modelling and simulation of electrode processing [in this interview](#).
- ▶ Dr. Fouad el Khaldi, from [ESI Group](#), talked about the work they will perform on optimization and sensitivity analysis [in this interview](#).
- ▶ Dr. Martin Lautenschlaeger, from the [German Aerospace Center \(DLR\)](#) spoke [in this interview](#) about the main role of DLR on modelling and simulation of electrolyte filling process.
- ▶ And last, but not least, Dr. Jochen Zausch, from the [Fraunhofer Institute for Industrial Mathematics ITWM](#), talked [in this interview](#) about the work they will carry out on modelling and simulation of cell performance and ageing mechanisms.

**Consortium**

• 13 partners from EU-countries

• Duration: 42 months → 01/01/2020 – 30/06/2023  
 • Total Funding: 5,988,318.75€  
 • Funding from EU Horizon 2020 under Grant Agreement 875247

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 875247

## DEFACTO at the Artistic webinar series

Elixabete Ayerbe, from our coordinator entity CIDETEC, presented the DEFACTO Project during the ARTISTIC Project “First Battery Manufacturing Days”. The session, which took place on June 30, was entitled “DEFACTO: Modelling techniques for cell design, from non-dimensional analysis to advanced Reduced Order Models”.

Elixabete Ayerbe's presentation  
 ARTISTIC Project Webinar Series 2020  
 First Battery Manufacturing Days



**Report**  
 on the parameters  
 required for modelling  
 and description of the  
 validation protocol

## Report on the parameters required for cell modelling and description of the associated validation protocol

We've released a new report that gathers contributions from all the DEFACTO Project partners involved in modelling and characterization work, which contains:

- A list of physical and chemical characteristics and the corresponding experiments and characterisation techniques.
- A list of samples for each experiment and the protocols of test, taking into account the three cell chemistries studied in the project (NMC622/G, NMC811/G-Si, LMNO/G-Si).
- The definition of the data type and format.
- Different usage scenarios.

[Download full report](#)





## Report on the standardization landscape

Our consortium partners [UNE - Asociación Española de Normalización](#) and [Avesta Battery & Energy Engineering \(ABEE\)](#) have prepared this report where they reviewed the existing standards for characterisation, manufacturing process, and performance testing from the material level to the final cell for Lithium-Ion Battery.

[Download full report](#)

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And if you want to talk to us, you can send us an email to [info@defacto-project.eu](mailto:info@defacto-project.eu)

We would love to hear from you!

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