



## 6# Quarterly Newsletter

July 2022

**Welcome back!**

### INTERVIEW



In this issue, we interviewed **Helena Braga, Associate Professor at the Engineering Physics Department of University of Porto**, about her teaching experience, the evolution of batteries and raw materials.

[Read the full interview here.](#)

# ALBATTS NEWS

## **Sectoral Intelligence**

We published a summary report based on the information collected during the ALBATTS first round of webinars and interviews. This report analysis current and future needs in various battery applications and domains (gigafactories, battery passport, energy storage, servicing of EVs, regulation, recycling or autonomous operation of vessels and virtual reality aspects). Partners are now examining the skills transition in the battery sector and connected sectors (in the context of the second update of the [sectoral skills intelligence and strategy](#)). The aim is to assess how current transformation of the automotive-mobility or energy sector influences sector attractiveness, newcomers into the battery sector and which skills, competences and knowledge are usable for battery manufacturing or other phases of the value chain. Finally, job role definitions are being developed, together with other work packages, which are based on the overall information gained through the last 2 years.

## **Intelligence in Stationary and Industrial Battery Applications**

In the spring of 2022, we started a new round of workshops and organised the webinar [Lithium - European Sourcing and Skills](#) on the 27th of April. It was a collaboration between ALBATTS and EIT Raw Materials. More webinars will be held in the coming fall.

By the end of August 2022, we will publish the update of D4.7 - Desk Research and Data Analysis for sub-sector ISIBA (Release 3). The research is covering the use of batteries in areas such as data centres, renewable power systems, heavy work machines, and residential applications. The primary aim is to continue identifying further battery-related skills, competences and job roles.

Furthermore, we have started the process with the Sectoral Intelligence Definition for sub-sector ISIBA - Release 2, which will be published in the early fall.

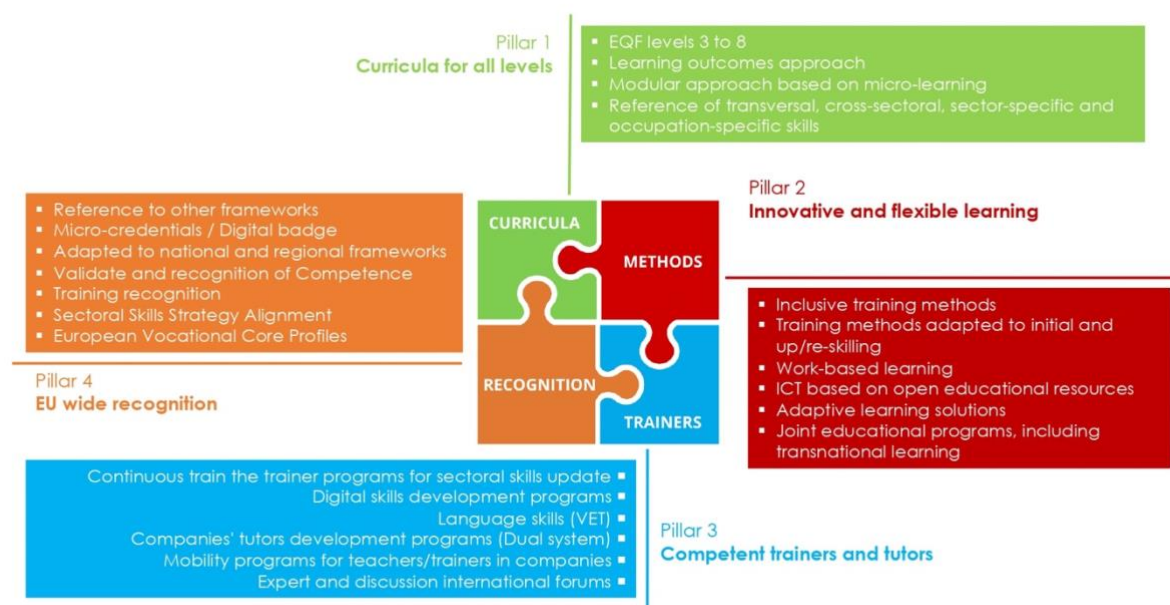
## **Intelligence in Mobile Battery Applications**

In the recent months, we have started to prepare a series of webinars and interviews that will take place in autumn 2022. A third desk research report (D5.7) is being prepared, focusing on mobile applications of batteries in trucks, buses, e-motorcycles, e-bikes and other micromobility devices, planes, drones, trains, and inland waterway vessels. In addition, work on the next sectoral intelligence report (D5.8) has begun. It will cover key ALBATTS project findings of the recent months concerning mobile battery applications and relevant job roles and skills. We are also involved in activities such as stakeholders hunt and communication.

## Training and Education

During the last months, Training and Education Partners have been working on all 4 ALBATTTS Education and Training Framework Pillars:

1. Curricula for all levels
2. Innovative and flexible learning
3. Competent trainers and tutors
4. EU wide recognition



Under Pillars 1 and 2, the development of the learning outcomes, content and training material for Basics on Batteries, Safety on Batteries and Automotive Applications courses is running, and the first training pilots are expected to take place after this Summer. At the same time, a didactic video is being developed to complement the training material.

Pillar 3 also had a step forward with the definition of the methodology and the structure for training the trainer guidelines, which is based on hybrid international teachers forum where teachers will meet face to face and online, using participants' own Erasmus K1 Mobility funding. A first pilot is planned for the end of October.

Work is also being developed on Pillar 4, with the background research for the Deliverable D6.3a) Recognition Action Plan and defining KPIs for the outcomes, and the definition of a model to rollout ALBATTTS results at national levels, taking the work already done in Finland as inspiration.

## ALBATTTS Partnership Meeting F2F



Recently, the ALBATTTS consortium met in person for the first time since the COVID-19 epidemic started.

The meeting, held in Skellefteå (Sweden), consisted of three days of intense internal discussions and preparation of the work for the coming two years. We were fortunate to have had the participation of the European Commission and the support of the Campus of the University of Skellefteå.

We also had fruitful engagement with local stakeholders in the energy/battery scene, including visits to the [Northvolt battery factory](#) and to the [Green Flight Academy](#), the first flight school of electric airplanes.

Also, during this meeting ATEC announced an agreement with InnoEnergy, to deliver EBA ACADEMY training in Portugal, and the understanding that ALBATTTS intelligence & training materials can be made available to EBA Academy.

### **The European Battery R&I Community and ALBATTTS**

The European Battery R&I Community is mainly steered by the initiatives BATTERIES EUROPE and the European Partnership BATT4EU. For maximising the outcomes of these initiatives to the European battery community, several expert groups have been established by the Office of BEPA (Battery European Partnership Association) and by the BATTERIES EUROPE Secretariat.

These expert groups will be the fora for techno-scientific inputs about key strategic and technical topics, covering the whole battery value chain. To support the European battery industrial manufacturing capability in a competitive and sustainable way, six distinct R&I areas will provide inputs to enable the zero-emission mobility and renewable energy storage integration.

Through its coordinator Anders Norberg, ALBATTTS is closely involved and contributing to enhance intelligence and knowledge to the European Battery R&I Community, including on the horizontal issue addressing education and training.

# WHAT IS NEW IN EUROPEAN POLICY

Some highlights:

- A new regulation on batteries and waste batteries is under development. The proposed Regulation could establish **mandatory requirements for all batteries** placed on the EU market (i.e., portable batteries, automotive batteries, electric vehicle batteries and industrial batteries).
- The European Commission is currently working on a new legislative proposal to secure the EU's supply of critical raw materials.

[You can access the full report here.](#)

## BATTERY SECTOR NEWS

### [Battery industry freaks out over EU proposal to classify lithium as a toxin](#)

The European Commission will soon decide whether to classify lithium as a toxic chemical — causing a freak-out among battery and raw material producers who argue that doing so will derail the bloc's transition to green energy.

### [BASQUEVOLT, the Basque initiative for production of solid-state batteries, is launched with the aim of producing 10GWh by 2027](#)

### [Germany grants IPCEI funding to Northvolt](#)

As reported by electrive.com, Northvolt will receive European funding for its manufacturing plant in Germany via the IPCEI (Important Projects of Common European Interest) mechanism.

### [Battery recycling project to take off with Mercedes in Germany](#)

The German Federal Ministry for Economic Affairs and Climate Protection (BMWK) is funding the development of a holistic recycling approach for lithium-ion batteries with 16.66 million euros.

### [Northvolt raises \\$1.1 billion to expand battery production in Sweden](#)

The Swedish battery cell manufacturer Northvolt has raised US\$1.1 billion in convertible bonds to expand its production of battery cells and cathode materials in Europe. The fresh capital comes from Volkswagen and a number of other investors.

### [European Commission set to grant EIT InnoEnergy 10 million Euros to bridge growing skills gap across battery value chain](#)

The European Commission is set to grant EIT InnoEnergy, the innovation engine for sustainable energy across Europe, 10 million Euros in funding towards the

European Battery Alliance (EBA) Academy,

### [EU ministers reach broad consensus on batteries regulation](#)

EU environment ministers adopted a general approach for the EU batteries regulation, centred on France's compromise proposal, which had drawn all-around praise for being "balanced" and "ambitious". The Council and the Parliament will now negotiate to agree on the final draft.

### [British battery maker Nyobolt raises £50 million in funding](#)

British fast-charging battery startup Nyobolt, a University of Cambridge spinout, has raised 50 million pounds in Series B funding led by H.C. Starck Tungsten Powders which will enable the company to begin manufacturing at scale.

### [Volkswagen begins construction of battery cell factory](#)

Volkswagen has laid the foundation stone for its first own battery factory at its components plant in Salzgitter.

## EVENTS CORNER

[Battery Tech 2022](#) (17/08/2022)

[Swiss Battery Days 2022](#) (29-31/08/2022)

[BATTERY 2030+ 2nd Annual Conference: Empowering Green Innovation](#) (EUROBAT – 12/09/2022)

[World Energy Storage Day 2022](#) (22/09/2022)

[3rd Future Battery Forum](#) (3-4/11/2022)

[Become an ALBATTTS Stakeholder](#) to receive regular information about the findings of the project (quarterly newsletters, invitations to webinars, surveys) and to help define the new EU Sectoral Skills Strategy for the Battery sector.

To know more about the ALBATTTS project visit our channels by clicking on the links below.



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Alliance for Batteries Training and Skills - ALBATTTS – Project number 612675-EPP-1-2019-1-SE-EPPKA2-SSA-B.  
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