



Alliance for Batteries Technology, Training and Skills

2019-2023

EU BROAD

DISSEMINATION & COMMUNICATION

D2.2 EU Broad Dissemination and Communication – Final



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EXECUTIVE SUMMARY

This report covers ALBATTTS activities carried out at the EU level to disseminate the goals, the ongoing work and the outputs of the ALBATTTS project until May 2024. It provides detailed information about each segment of the dissemination and communication work package: website, social media channels, newsletter, promotional materials, organised events and synergies with other projects and initiatives.

All dissemination actions significantly increased the visibility of the project and resulted in a substantial upsurge in interest from both the education and industry communities within the EU batteries ecosystem.

The communication and dissemination efforts for the ALBATTTS partnership surpassed expectations, as evidenced by the impressive metrics. Numbers - such as over 18.000 website visits, 1.630 participants in online events and 1.435 followers on LinkedIn - serve as compelling evidence of the project's outreach and engagement. The goals were to share critical findings about the project, including providing accurate information on identified skills and job roles, and to highlight the availability of training courses. They were achieved by the engagement established with all the people interested in the project's activities. This achievement is particularly impressive, considering the outreach was primarily virtual.

INTRODUCTION

This is the final release of the ALBATTs report D2.2. It refers to the Task 2.2 (EU Broad Dissemination and Communication), according to which the ALBATTs partnership would:

- Promote actions, events, and conferences to ensure visibility of the work of the Alliance at regional, national and EU levels;
- Define participation in national, EU-wide and international events for appropriate dissemination of SSA work;
- Organise in-room sessions in partner countries to boost interest, update on achieved results, and collect relevant inputs to enhance outcomes;
- Take the necessary measures to actively participate in relevant EU events and renowned international conferences related to battery technology and energy storage.

We should mention that in a project doing its first steps in early 2020, the tasks were very much conditioned by the COVID-19 limitations for an extended period of time, which forced changes and the redesign of some of the activities that would be implemented. Nevertheless, this report covers the activities carried out to implement the ALBATTs strategy (D2.1) to disseminate the results of the project at the EU level.

About ALBATTs

The Alliance for Batteries Technology, Training and Skills - ALBATTs is a European Union-funded project to contribute to the electrification of transport and green energy in Europe, by designing a blueprint for future competencies and training schemes in the battery and electromobility sector.

The project ran from December 2019 to November 2023 (and was extended until May 2024) with a budget of nearly 4 million euros and included main battery stakeholders comprising industries, R&D organisations, IT companies, public entities, European sectorial associations, VET schools and Universities, from the 10 EU partner countries. Twenty 20 European partners from 11 countries were involved. In addition, three Associated partners identified in the original proposal and other three that meanwhile joined the project compose the Steering Board, led by ACEA.

COMMUNICATION AND DISSEMINATION TOOLS

1. WEBSITE

The ALBATTs website - www.project-albatts.eu - served as the main entrance point for the project and is the most important source of information about the ALBATTs activities.


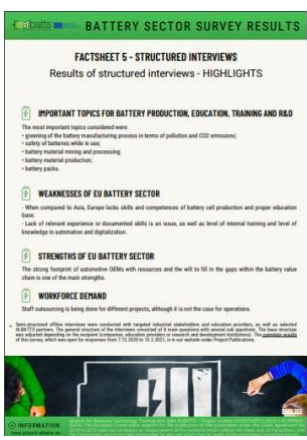
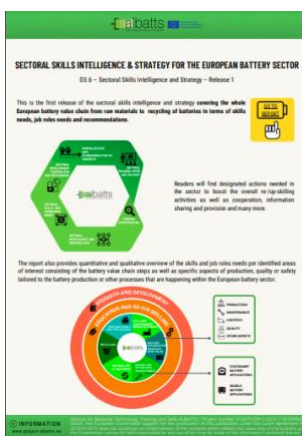
The website was designed and put online at the early stages of the project, and was periodically updated along the project's duration, following developments and new outputs dissemination needs.

A simple and clear structure for the website was proposed and agreed by partners while several changes were introduced to the original design with the purpose of increasing the visibility of results EU-wide and to targeted audience.

The positive feedback from both entities and the general public underscored the commendable design and content quality, as well as the effectiveness and relevance of the disseminated materials.

At the time of the first release of this report, we identified some of the website sections that were created to facilitate the spread of the project's work to EU-wide stakeholders:

- **RESULTS** – subdivided in a [summary of published outputs](#) and the [highlights from the several results obtained](#) through a number of **factsheets** that graphically illustrate the outcomes and invite further reading the comprehensive content of produced reports;

 <p>INTELLIGENCE IN BATTERY SECTOR - STATE-OF-THE-ART OVERVIEW D2.3 Desk Research and Data Analysis - Release 1</p> <p>The report provides an overview of the state-of-the-art of the European battery sector in terms of drivers of change, stakeholders, technologies, connected job roles, skills needs and education.</p> <p>It also provides specific information about different value chain steps within the European battery ecosystem:</p> <ul style="list-style-type: none"> Raw Materials and their processing Components and cells manufacturing Battery modules and pack manufacturing Battery integration Operation, Repair and Maintenance Second life <p>Finally, it comes up current challenges across different categories:</p> <div> <div> <p>BATTERY SECTOR</p> <p>Balance between Mobility and Stationary Battery Applications</p> <p>Importance of battery sub-sectors going hand in hand, benefiting from each other when it comes to technologies, standards, job roles, skills, competences, education and identification of sector attractiveness, as well as drivers of change, throughout the whole battery value chain.</p> </div> <div> <p>ATTRACTIVENESS</p> <p>Attractiveness of Battery Sector</p> <p>Importance of the attractiveness of the battery sector, its connection with drivers of change and incentives to the battery sector aiming for an improvement of their opportunities when it comes to re-training or upskilling.</p> </div> </div> <p>SEE ALSO NEXT PAGE ***</p>	 <p>BATTERY SECTOR SURVEY RESULTS</p> <p>FACTSHEET 5 - STRUCTURED INTERVIEWS Results of structured interviews - HIGHLIGHTS</p> <p>IMPORTANT TOPICS FOR BATTERY PRODUCTION, EDUCATION, TRAINING AND R&D</p> <p>The most important topics considered were:</p> <ul style="list-style-type: none"> growing of the battery manufacturing process in terms of production and CO2 emissions; safety of batteries while in use; battery material mining and processing; battery material production; battery packs. <p>WEAKNESSES OF EU BATTERY SECTOR</p> <p>When compared to Asia, Europe lacks skills and competences of battery cell production and proper education levels.</p> <ul style="list-style-type: none"> Lack of relevant experience or documented skills is an issue, as well as level of internal training and level of knowledge in automation and digitalization. <p>STRENGTHS OF EU BATTERY SECTOR</p> <p>The strong footprint of automotive OEMs with resources and the will to fill in the gaps within the battery value chain is one of the main strengths.</p> <p>WORKFORCE DEMAND</p> <p>Staff shortages is being done for different projects, although it is not the case for operations.</p> <p>Some structural office interviews were conducted with targeted national associations and education providers, as well as national R&D project interviews for the national company operators (D2.2.1) in university and automotive universities. The data obtained are shared together with the national company operators (D2.2.1) in university and automotive universities. The data obtained are shared together with the national company operators (D2.2.1) in university and automotive universities.</p>	 <p>SECTORAL SKILLS INTELLIGENCE & STRATEGY FOR THE EUROPEAN BATTERY SECTOR D2.6 - Sectoral Skills Intelligence and Strategy - Release 1</p> <p>This is the first release of the sectoral skills intelligence and strategy covering the whole European battery value chain from raw materials to recycling of batteries in terms of skills needs, job roles needs and recommendations.</p> <p>Readers will find designated actions needed in the sector to boost the overall re-upskilling activities, as well as incentives, information sharing and provision and many more.</p> <p>The report also provides quantitative and qualitative overview of the skills and job roles needs per identified areas of interest consisting of the battery value chain steps as well as specific aspects of production, quality or safety related to the battery production or other processes that are happening within the European battery sector.</p>
<p>State of the art in the battery sector</p>	<p>Sector survey results</p>	<p>Sectoral skills intelligence</p>

Examples of ALBATTs Factsheets released to highlight the ALBATTs official outputs

- **NEWS & EVENTS** - a section showing relevant news about the project and related matters, as well an events section created the Summer 2021 to announce and serve as a repository of organised or participated events;
- **REACH-OUT** – an important section for both the project and visitors as it includes the majority of digital published materials, being divided into - [Newsletters, Project publications, Videos](#);
- [LATEST NEWS](#) – about ALBATTs are easily accessible through a floating button always visible on the right side of the website main page.

Since then, **TWO NEW SUB-SECTIONS** were added into the **RESULTS** section:

- [SKILLS CARDS](#) – a sub-section containing the ALBATTs Skills Cards, which describe a number of occupational profiles - and corresponding competencies - within the scope of battery manufacturing, e-mobility and stationary battery storage;
- [COURSES](#) – a subsection displaying the ALBATTs Courses that were meanwhile made available.

Two Homepage floating buttons for these new sections were added to make them easily accessible while giving them the adequate importance in the website.

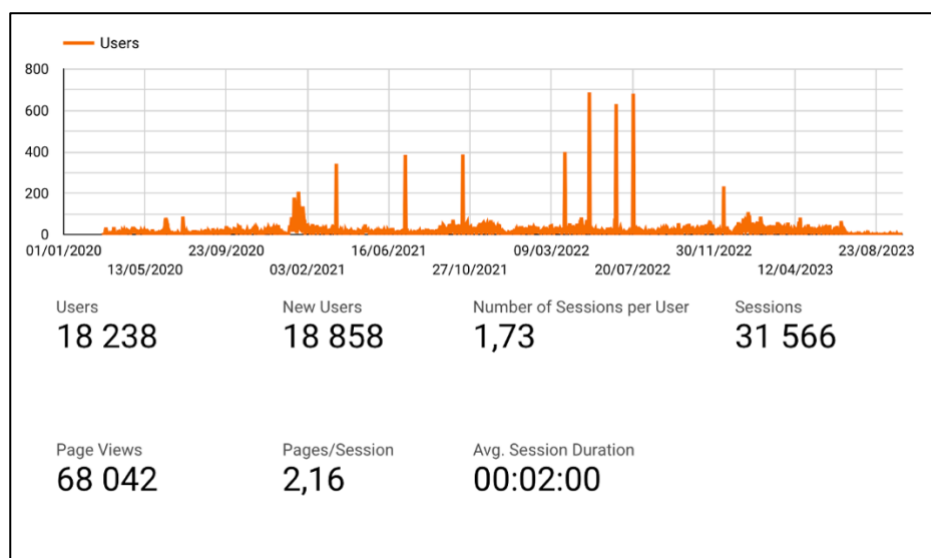
Considering the focus on training and demand for guidance to teaching and training in VET, a third homepage floating button was also added leading to the highlights of the [ALBATTs Handbook for Training in the Battery Industry](#).

Finally, a **SEARCH ENGINE** was added to the website at the right top of each page allowing users to easily find publications within the website.

1.1. Monitoring Dissemination

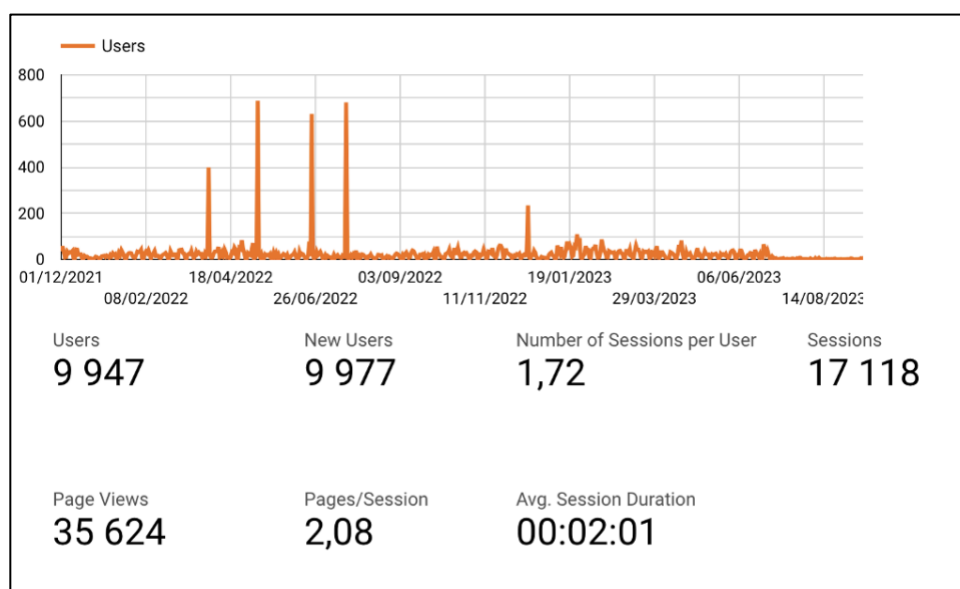
Google analytics was used for regular monitoring of the website visitors and performance reach.

The number of ALBATTTS website new users reached **18.238 people**, corresponding to more than **23.198 pages views across 31.566 different sessions**.

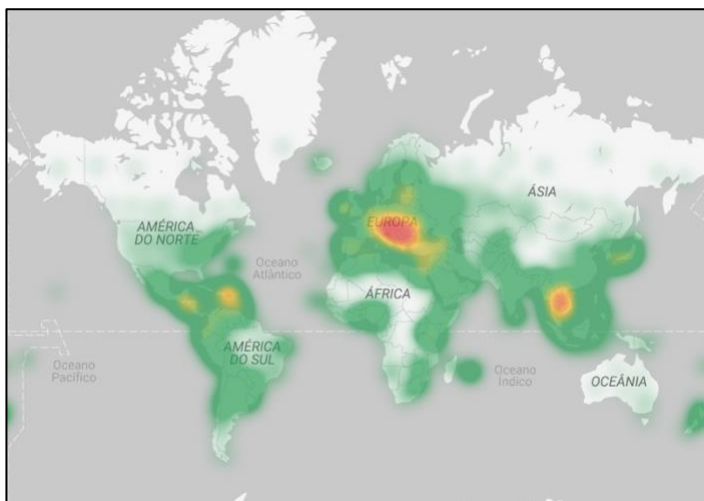


Since the previous release of the present report (end of 2021), the statistical assessment shows that the website:

- Attracted **9.977 new users**, which represents around 55% of the total user's universe;
- Gathered **35.624 new page views** with an average session duration of 2m01s across 17.118 different sessions.

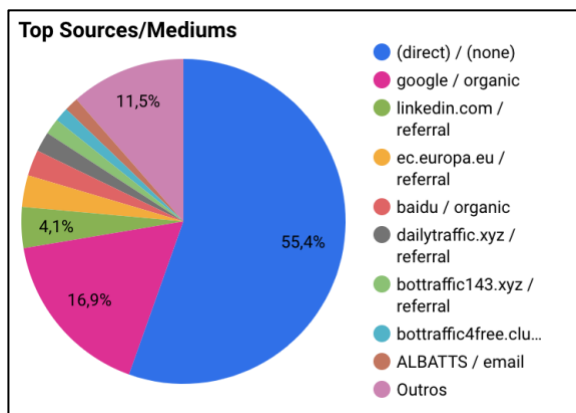


While the pattern of the most visited pages on the website remains consistent with the latest report, notably with the **events page emerging as the second most visited** (after the homepage), we believe it's more pertinent to present a measure that demonstrates the project's geographic reach. With that in mind,



this graphic (map) confirms that **the project's website primarily garnered interest and engagement in Europe**, as anticipated. However, it's worth noting that it genuinely had a **global impact**. This was confirmed by the participation in ALBATTS online events, which revealed significant engagement from the Americas, Asia, and Africa (see. Section 5.4 below), underscoring the project's worldwide appeal.

Lastly, visitors accessed the ALBATTS website through a variety of channels. Approximately 55% arrived directly via the website URL, **indicating strong brand recognition and direct traffic**. Another 16.9% arrived through Google search, **highlighting its visibility in search engine results**. As it will be highlighted in the next section, **LinkedIn emerged as a valuable**



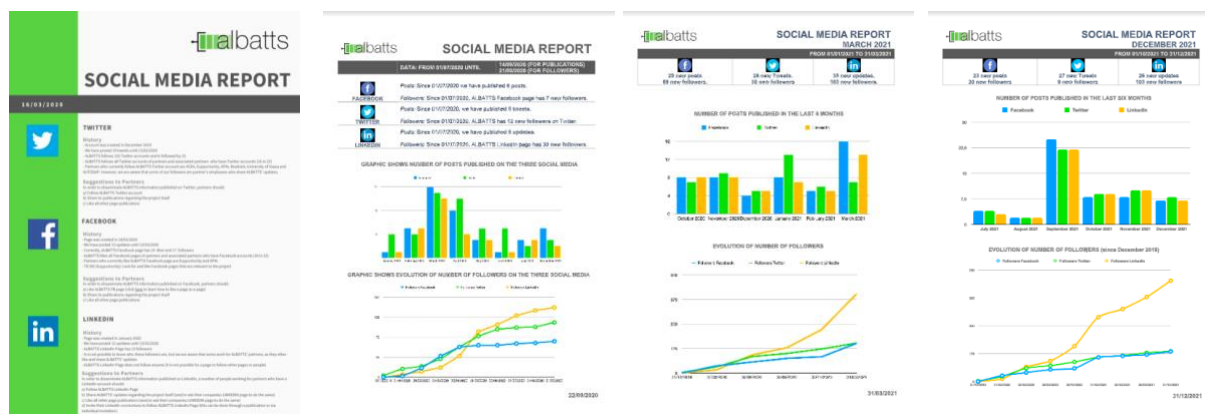
platform, contributing to around 4% of total visitors. Additionally, we acknowledge the 3% of users who accessed the website through European Commission channel referral.

2. SOCIAL MEDIA

ALBATTs leveraged prominent social media platforms – [Facebook](#), [X-Twitter](#) and [LinkedIn](#) – to showcase the project's myriad initiatives and accomplishments, effectively amplifying its visibility and establishing a lasting online presence. Additionally, a dedicated [YouTube](#) channel was established as a repository for the project's video content, ensuring easy access and broader dissemination of its multimedia materials.

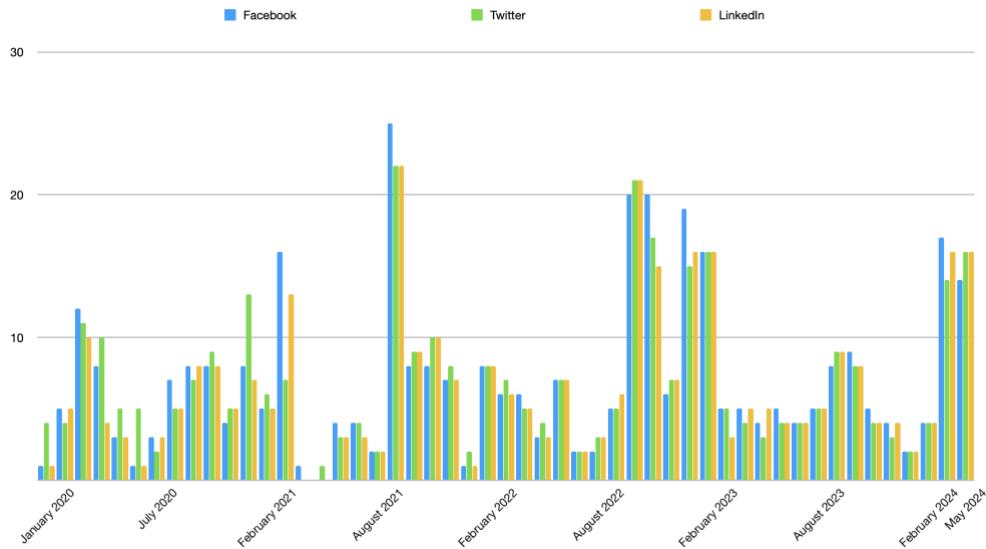
2.1. Monitoring Dissemination

The project tracked social media publications and followers by compiling **quarterly reports** that aggregated metrics from the various channels. These reports served the dual purpose of monitoring the impact of dissemination and communication efforts, as well as gauging the progression of results. Additionally, they provided a framework for implementing corrective measures should they be deemed necessary.



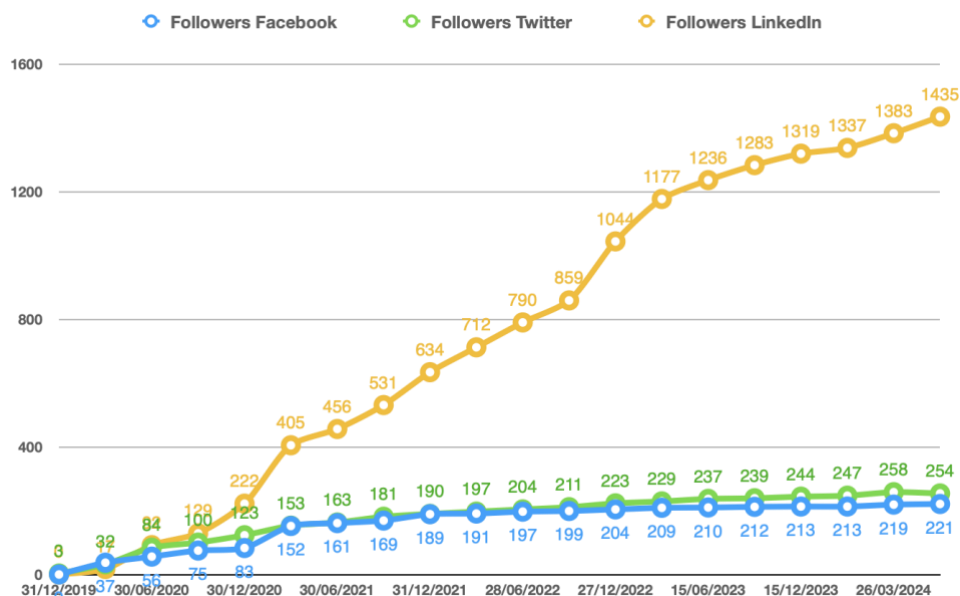
Example of Monitoring Reports

Throughout the project's timeline, ALBATTs maintained a **consistent presence** on social media, thoroughly disseminating information about its numerous activities. The collective effort yielded a substantial total of **1.055 posts**, strategically distributed across various platforms: Facebook received 360 updates, X-Twitter contributed 356, and LinkedIn showcased 339.



ALBATTs Social Media Posts Distribution (January 2020-May 2024)

ALBATTs experienced remarkable growth in its social media following, with particular emphasis on the **exceptional performance of LinkedIn**. The platform emerged as the frontrunner, witnessing a significant surge in followers, indicative of the resonance of ALBATTs' content within a professional context. While other platforms also saw growth, LinkedIn stood out as the most effective channel for expanding ALBATTs' online community and fostering valuable connections within the education sector and the industry.



ALBATTs Social media Followers Evolution (December 2019-March 2024)

In what regards LinkedIn followers,

- the top locations are Brussels (BE), Porto (PT), Lisbon (PT), Gothenburg (SE), Stockholm (SE), Munich (DE), Vaasa (FI), Berlin (DE), Paris (FR) and Prague (CZ);
- the top job functions are Information Technology, Sales, Business Development, Research, Education, Consulting, Engineering, Operations and Product Management;
- The sizes of the top followers' companies are 10.001+ employees, 11 to 50 employees, 2 to 10 employees.

3. NEWSLETTER

Throughout the project duration, ALBATTTS released **8 quarterly newsletters** to widely disseminate evidence about the partnership endeavours and general information in the battery ecosystem.



Published issues of the ALBATTTS Newsletter

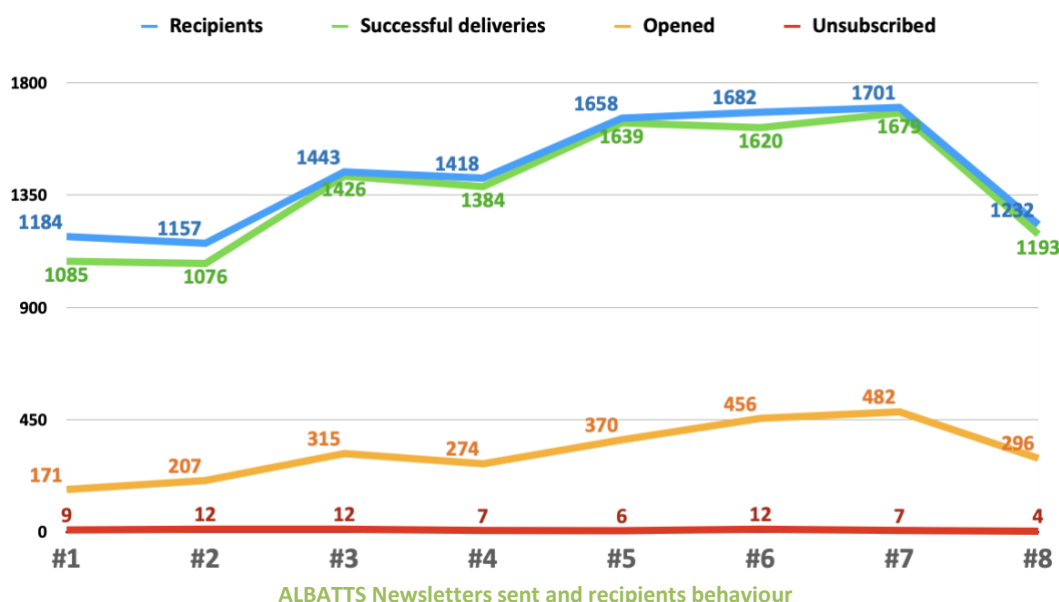
The Communication and Dissemination Team always ensured that in each newsletter there was an interesting interview or article, a summary of the ALBATTTS ongoing and planned activities, highlights on EU policies impacting the sector with an overview of their path, and a calendar of upcoming battery-related events.

Each newsletter was published on the website, advertised on social media, and sent by e-mail to the ALBATTs stakeholders database and newsletter subscribers.

3.1. Monitoring Dissemination

The analysis of the chart below shows that, throughout the project duration, the difference between newsletters e-mails sent (blue line) and newsletters e-mails delivered (green line) was very low, demonstrating that there was a good maintenance of the newsletter recipients' database.

The same chart shows that the percentage of subscribers opening the newsletter e-mail (orange line) was between 20% and 30%.

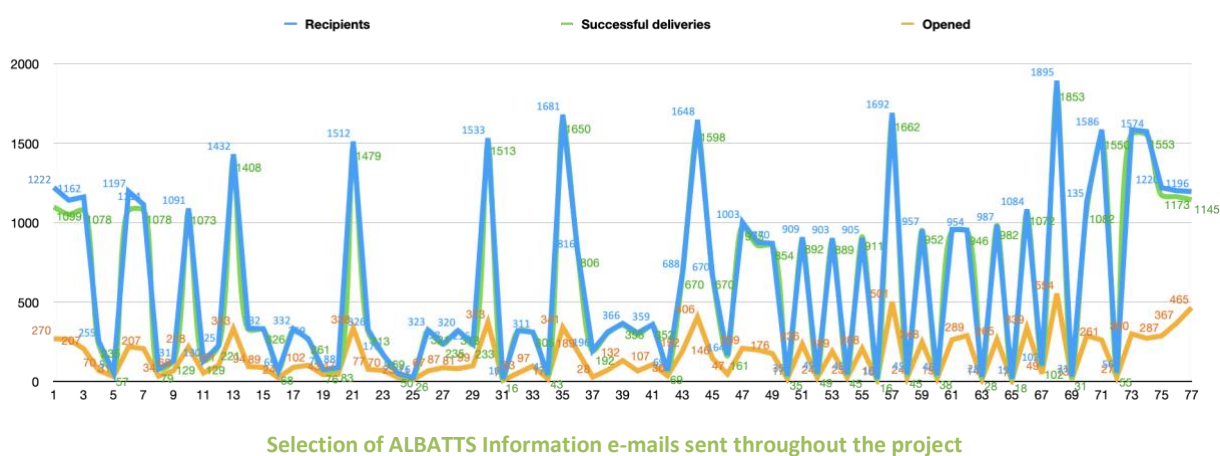


The number of newsletters subscribers varied as it was influenced:

- On one hand by the number cancellations and by the removal of recipients that stopped existing (as people changed jobs, for instance)
- and on the other hand, by the number of new subscribers after each webinar (individuals who wanted to receive more information about the project).

Newsletters excluded, **approximately 80 e-mails were also sent to the project's stakeholders**, such as invitations to attend webinars, requests for evaluation of webinars, information about reports release and information on other ALBATTs outputs and initiatives.

The graphic below represents, for a selection of e-mails, the number of recipients, the number of successful deliveries and the number of people opening the e-mail received. The differences among the number of recipients per e-mail results from the selection of recipients according to the subject of the e-mail.



4. PROMOTIONAL MATERIALS

Promotional materials were produced and updated, following the project's needs, outcomes and initiatives.

4.1. ALBATTs Roll-up

A roll-up was designed and then made available to all partners for their own printing and use in the promotion of the project. The roll-up formed a coherent identity with other communication elements of ALBATTs.

It reflects the image of the project, giving a glance of ALBATTs coverage in the battery ecosystem and the group of partners and entities involved. It has a QR code linking to the ALBATTs website.



The roll-up was used during in-person events (when printed, measures 200x85cm).

4.2. ALBATTs Flyer

A flyer was produced to be distributed by WP6 in their activities. It provides the basic details about ALBATTs and further information on the Skills Cards and the ALBATTs Courses (through QR codes linking to the corresponding pages on the ALBATTs website).



ALBATTS Flyer (front and back)

4.3. ALBATTS Physical Promotional Materials

The ALBATTS dissemination team recognised the significance of crafting and procuring a range of physical promotional materials to distribute among stakeholders and individuals invested in and tracking the partnership's activities. This decision was motivated by the practical utility these items offered upon receipt, as well as their potential to create a sense of pride in being associated with ALBATTS, a pioneering project in workforce preparedness within the battery ecosystem. The materials were distributed during in-person events after COVID-19.

They encompassed a variety of items: bags, pins, blocks, pens, and anti-stress balls.



ALBATTS Physical Promotional Materials

5. EVENTS

To foster strategic awareness **across the European Union** and ignite interest among diverse communities and target groups, the ALBATTTS consortium designed a series of events. These gatherings served a **dual purpose**: to disseminate updates on accomplished milestones and to gather valuable insights for optimising outcomes. By doing so, ALBATTTS aimed to carve out a distinctive identity within the green mobility ecosystem, positioning itself as a beacon of innovation and progress in the field of the education and training for the batteries sector.

5.1. Overview of broad-EU events

For the total duration of the project, the partnership organised:

- **sixteen webinars**, covering different sections of the battery value chain. The selection of the themes and consequently of the speakers, followed the themes of the project's work packages;
- **seven interviews** seeking insights from personalities related to the battery sector, either working in the industry, in the policy making or in the education and training;
- **five online side events in the frame of EU thematic weeks** (European Week of Regions and Cities, European Industry Days, European Sustainable Energy Week), two of which were co-organised with project DRIVES;
- a **final in-person conference** that was held in Brussels

All ALBATTTS sixteen webinars and seven interviews were streamed through the ALBATTTS Facebook page using Eupportunity's Webex. Some online side events of EU thematic weeks were held using the events' platforms, which doesn't allow us to go deeper into their analysis. The final in person conference was also streamed and the edited video is available on the project website.

The list of the broad dissemination events is displayed in the table below.

No.	DATE	EVENT
1	13/10/2020	Regions & Skills in the auto industry (ERCW 2020) co-organised with DRIVES
2	19/01/2021	Vessels of the Future: Maritime Batteries
3	20/01/2021	Battery Cells Manufacturing
4	26/01/2021	Stationary Energy Storage in Grids and Telecom Applications
5	27/01/2021	Electric Vehicle Manufacturing and Battery Integration
6	18/03/2021	Skills Alliance and the Forthcoming E-mobility (EU Industry Days) co-organised with DRIVES
7	15/09/2021	Interview with Katarina Borstedt
8	29/09/2021	Servicing of Electric Vehicles
9	12/10/2021	Interview with Claudia Gamon
10	22/10/2021	New EU Battery Regulation Proposal
11	17/11/2021	Interview with Duarte Conde Silva
12	30/11/2021	Recycling Electric Vehicles' Batteries
13	07/12/2021	Autonomous Operations and Virtual Reality in Maritime
14	27/04/2022	Lithium Mining and Extraction
15	13/10/2022	Preparing a Sustainable Clean Energy Ecosystem (ERCW 2022)
16	26/10/2022	Interview with Tomás Kazda
17	14/11/2022	Interview with Noshin Omar
18	22/11/2022	Interview with Ylva Olofsson
19	24/11/2022	Battery Management Systems and Control Systems
20	29/11/2022	Electrification of Heavy-Duty Vehicles
21	17/01/2023	Electrification of the Aviation Sector
22	19/01/2023	Interview with Daniel Clios
23	26/01/2023	Electrification of Inland Waterways
24	27/01/2023	Safe Recycling and Second Use of Electric Vehicles' Batteries
25	03/02/2023	Skills Transition in the Battery Industry
26	03/05/2023	Safety Aspects of Electric Vehicles Manufacturing
27	28/06/2023	Towards a Functioning Battery Ecosystem (EUSEW 2023)
28	25/10/2023	Skills and talent for the Green Transition (EWRC 2023)
29	09/04/2024	ALBATTs Final Conference (in-person event)

List of broad dissemination events organised by ALBATTs

Other ALBATTs events, designated to serve the purpose of rolling-out the project's results at regional level are addressed in a separate report (**D2.3 - Dissemination on Regional Level**).

5.2. Events communication methodology

Each event was created in partnership with WP4/WP5 partners and the WP2 communication team. While WP4 and WP5 designed the content of the events, WP2 had the responsibility to harmonise the contents, adapt the key messages and launch and disseminate the event information in the ALBATTs official channels. Each partner then reshared the official message in their own channels.

The steps to ensure proper dissemination were the following:

1. Save-the-date on ALBATTs social media channels around 3 weeks before the event;
2. Open registrations no later than 2 weeks before the event;
3. Dedicated event box for each event on the website events page;
4. Temporary pop-up window with link to the events page on the website homepage;
5. Invitation e-mail to all relevant ALBATTs stakeholders;
6. Publication of registration reminders on social media to make sure the number of registrations grew steadily

5.3. Events organised

This section encompasses an analysis of the events organised and their corresponding impact. They reflect data collected up until mid-May 2024, unless specified otherwise.

5.3.1. Regions & Skills in The Auto Industry



This online event was held on 13/10/2020.

This [workshop](#) was co-organised with project DRIVES in the frame of the 18th European Week of the Regions and the Cities. It focused on the roll-out of project DRIVES, but it was also an opportunity to hold a debate on future educational needs in the automotive and battery industries.

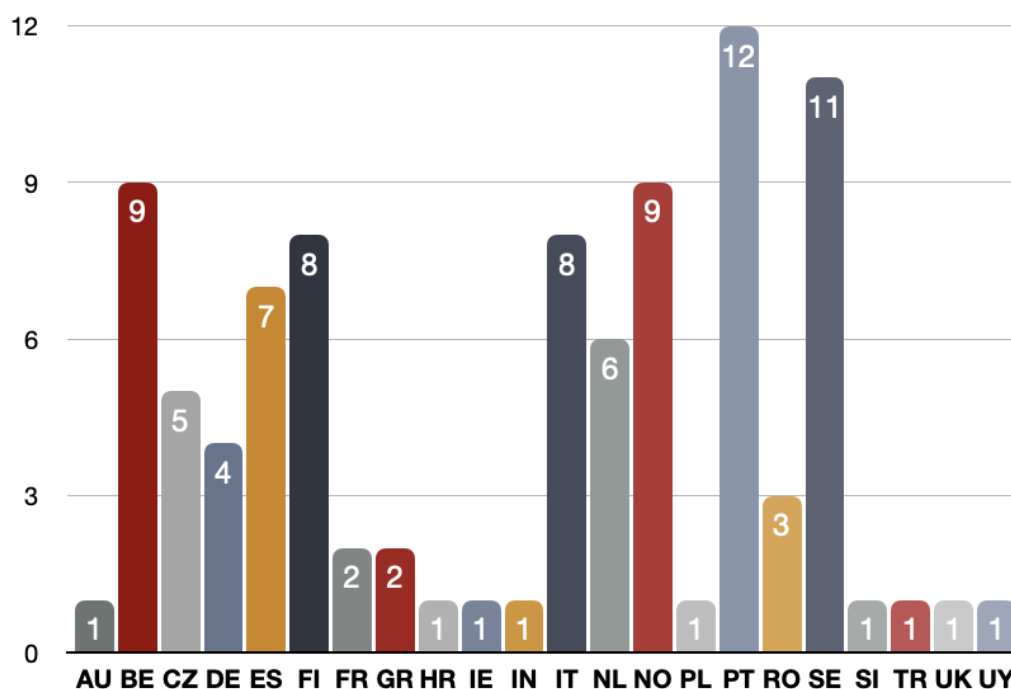
Registrations were made through the [European Week of the Regions and the Cities platform](#), through which the event was also streamed.

5.3.2. Vessels of the Future: Maritime Batteries - Job Roles and Skills



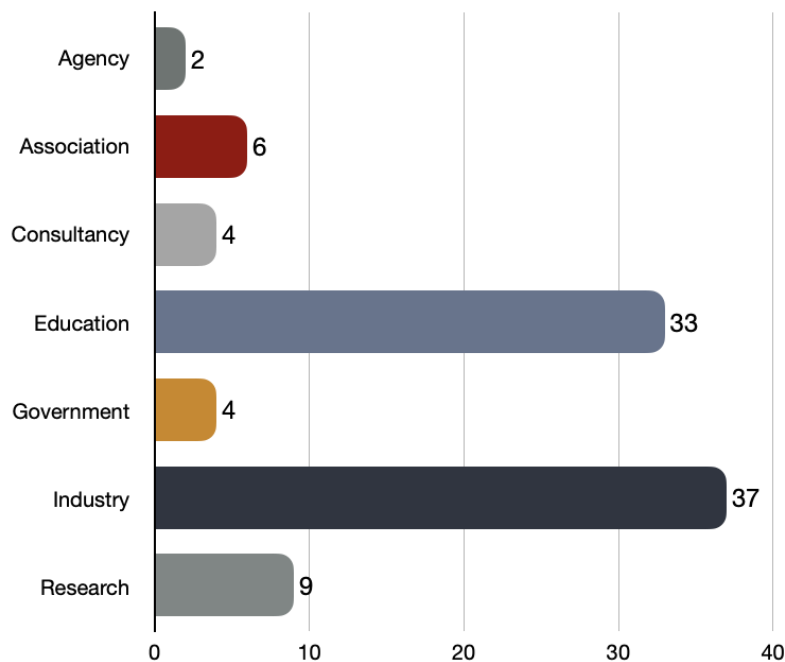
This online event was held on 19/01/2021 and [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **22 countries (5 from outside the EU)**, as shown in the graphic below.



39% of registrations were from the industry sector and 35% were from the education sector.

Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
95	88	90 minutes	64 minutes

Webinar views since made available through the ALBATTs website: 31¹

FACEBOOK VIDEO POST INSIGHTS

Viewer Activities	Reach	134 people
Interactions	Reactions	12
	Comments	0
	Shares	1

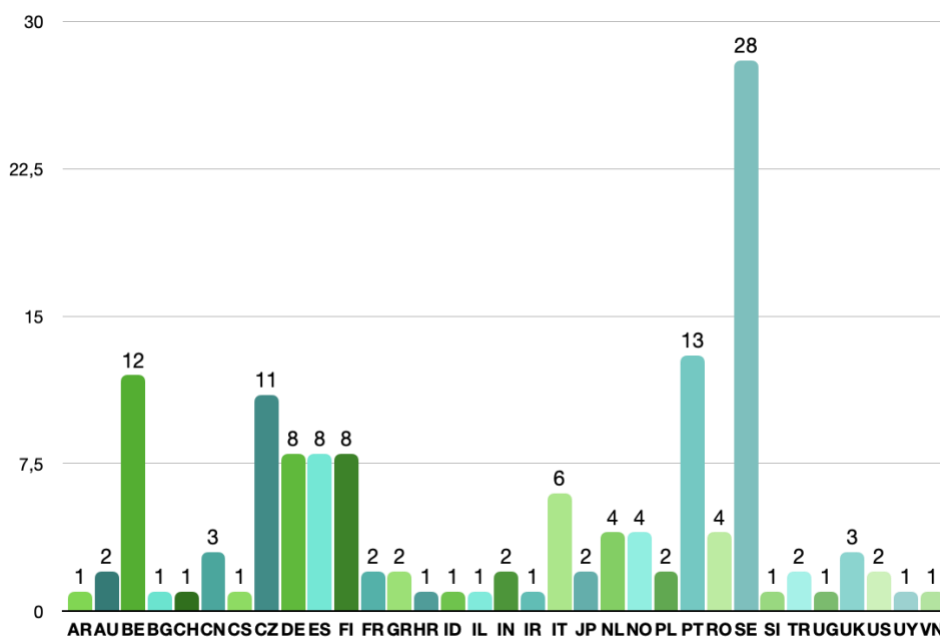
¹ The most recent data point for this statistic was collected in December 2021. This is because Webex currently does not provide access to data for this timeframe.

5.3.3. Battery Cells Manufacturing – Job Roles and Skills

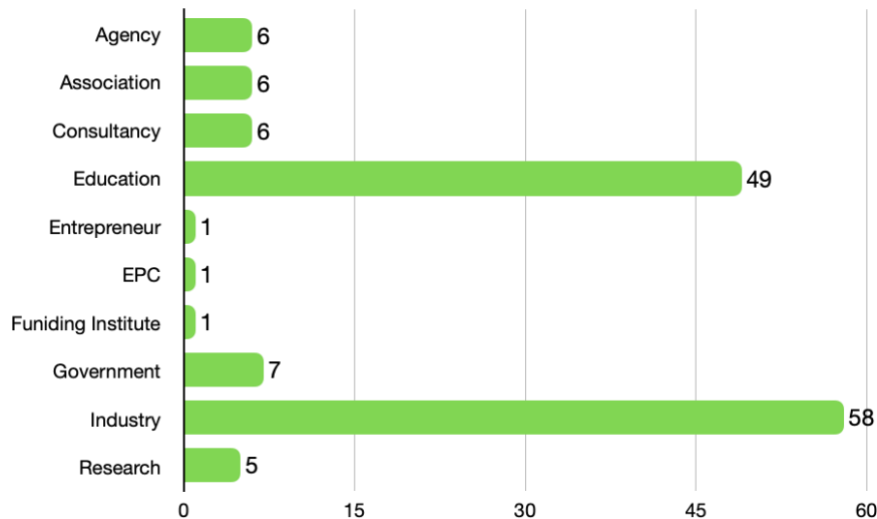


This online event was held on 20/01/2021 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **33 countries (15 from outside the EU)**, as shown in the graphic below.



41.4% of registrations were from the industry sector and 35% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
140	98	90 minutes	72 minutes

Webinar views since made available through the ALBATTs website: 39¹

Facebook Video Post Insights

Viewer Activities	Reach	127 people
Interactions	Reactions	11
	Comments	1
	Shares	0

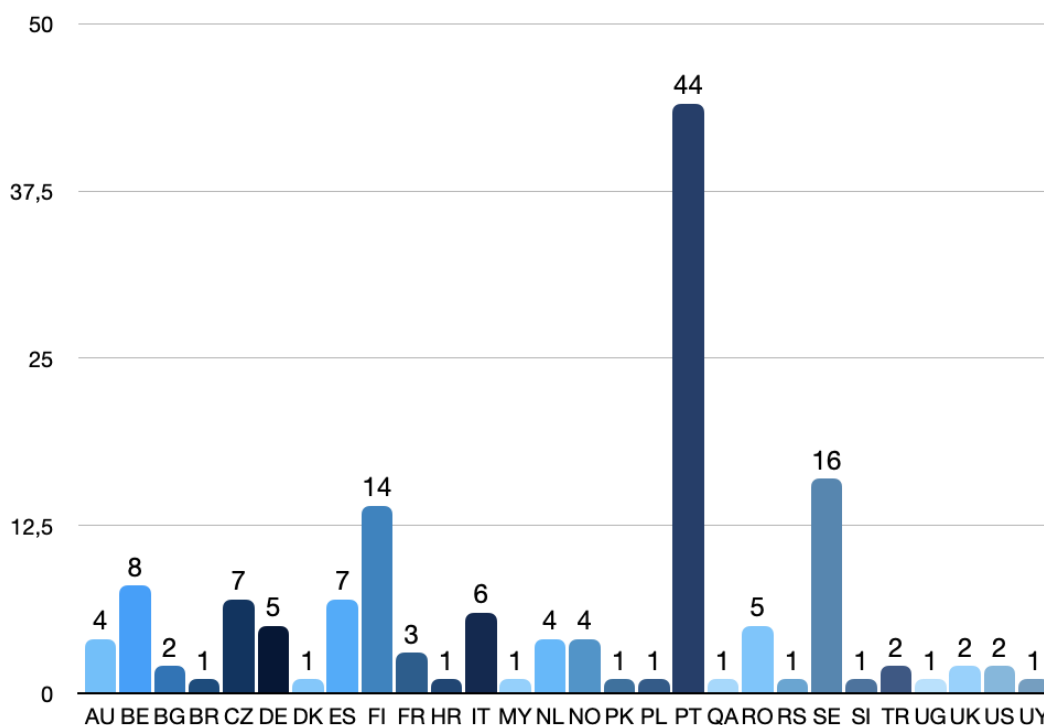
¹ The most recent data point for this statistic was collected in December 2021. This is because Webex currently does not provide access to data for this timeframe.

5.3.4. Stationary Energy Storage in Grids and Telecom Applications: Future Job Roles and Skills

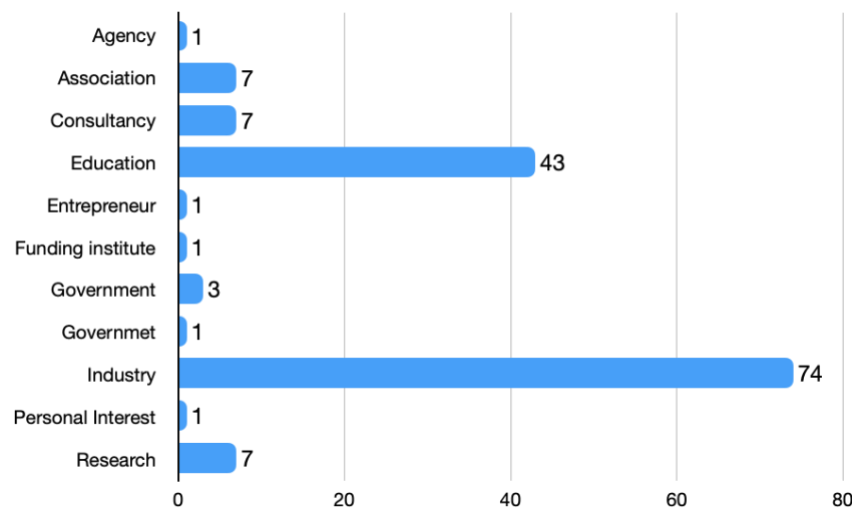


This online event was held on 26/01/2021 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **28 countries (11 from outside the EU)**, as shown in the graphic below.



50.6% of registrations were from the industry sector and 29.4% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
146	96	90 minutes	68 minutes

Webinar views since made available through the ALBATTTS website: 58¹

FACEBOOK VIDEO POST INSIGHTS

Viewer Activities	Reach	108
Interactions	Reactions	9
	Comments	2
	Shares	0

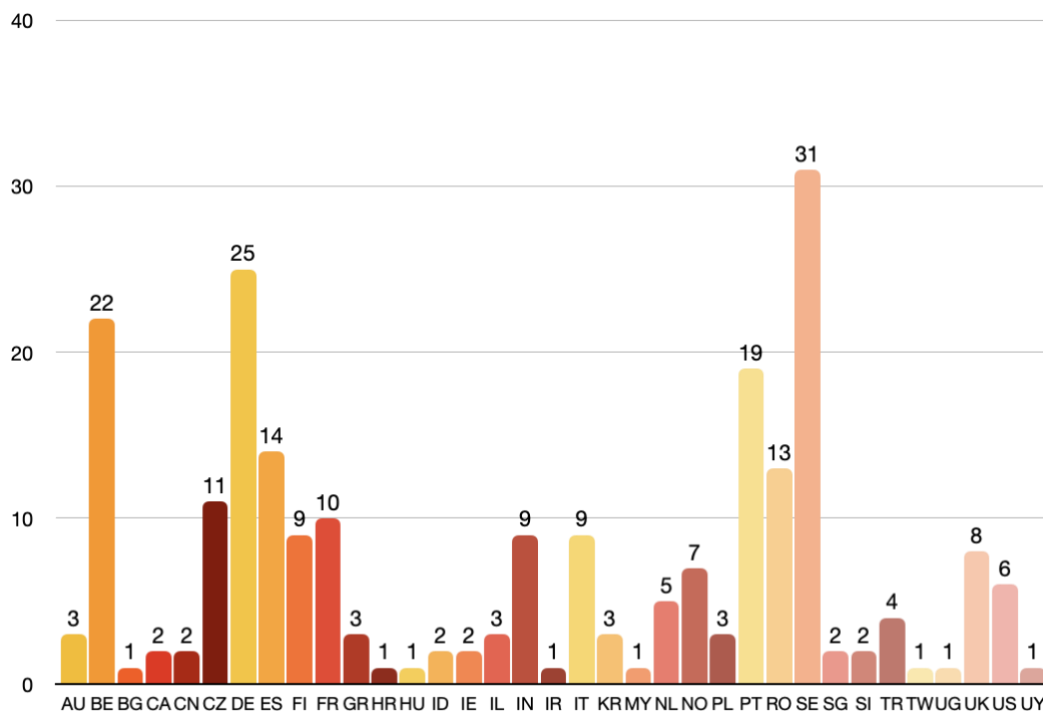
¹ The most recent data point for this statistic was collected in December 2021. This is because Webex currently does not provide access to data for this timeframe.

5.3.5. Electric Vehicle Manufacturing & Battery Integration - Future Qualifications Needed

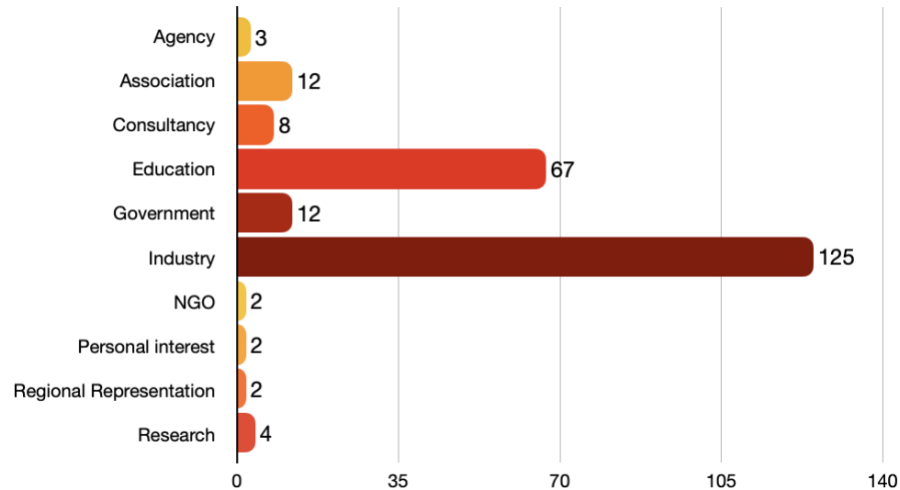


This webinar was held on 27/01/2021 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from 35 countries (15 from outside the EU), as shown in the graphic below.



52.7% of registrations were from the industry sector and 28% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
237	112	90 minutes	77 minutes

Webinar views since made available through the ALBATTTS website: 62¹

FACEBOOK VIDEO POST INSIGHTS

Viewer Activities	Reach	794
Interactions	Reactions	20
	Comments	6
	Shares	5

¹ The most recent data point for this statistic was collected in December 2021. This is because Webex currently does not provide access to data for this timeframe.

5.3.6. Skills Alliance and the forthcoming e-mobility (EU Industry Days 2021)



This webinar was held on 18/03/2021.

Co-organised with project DRIVES, this online event was held on 18/03/2021, in the frame of the European Industry Days. It was [livestreamed through Facebook](#).

WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
87	68	108 minutes	89 minutes

Webinar views since made available through the ALBATTs website: 35¹

FACEBOOK VIDEO POST INSIGHTS

Viewer Activities	Reach	47
Interactions	Reactions	4
	Comments	0
	Shares	0

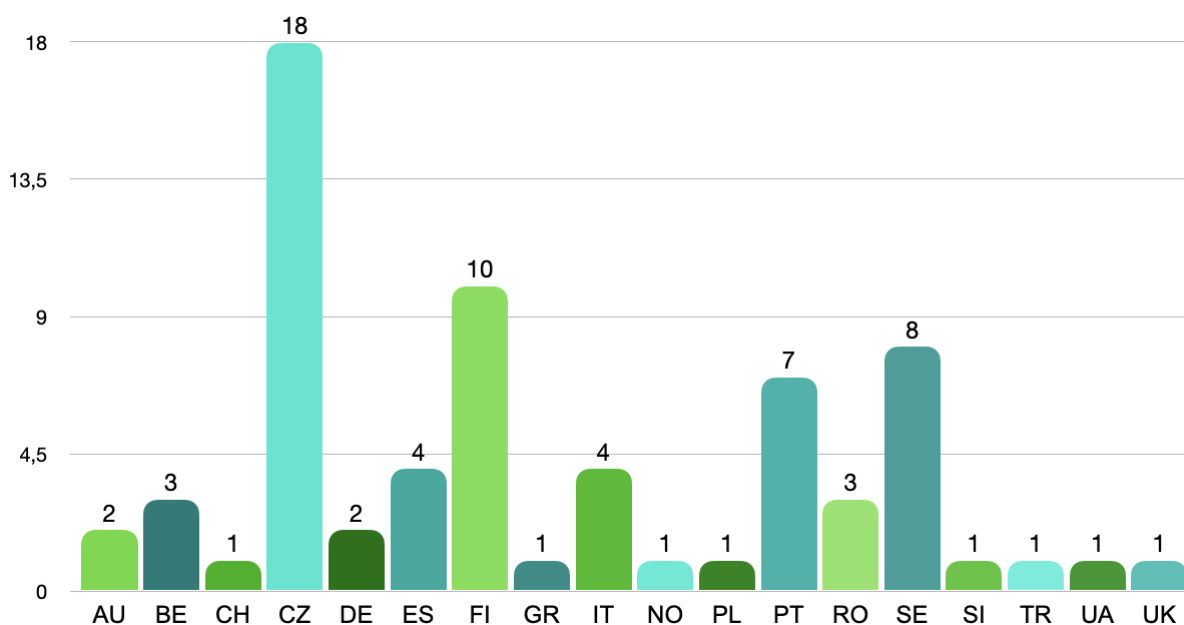
¹ The most recent data point for this statistic was collected in December 2021. This is because Webex currently does not provide access to data for this timeframe.

5.3.7. Interview with Katarina Borstedt, Director of Growth at Northvolt

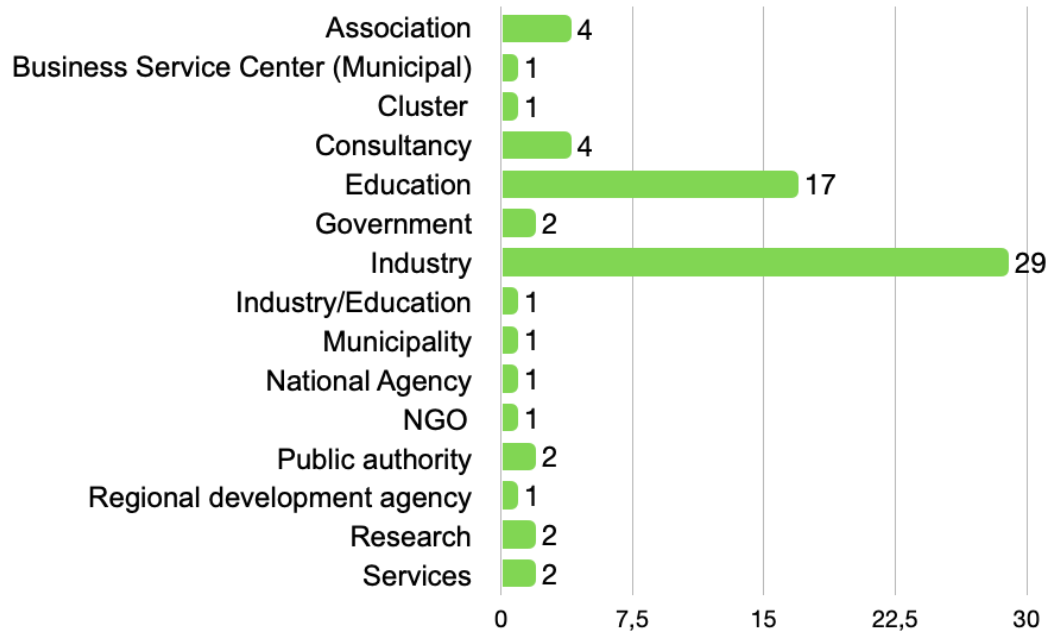


This online interview was held on 15/09/2021 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **18 countries (5 from outside the EU)**, as shown in the graphic below.



42% of registrations were from the industry sector and 25% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
69	42	58 minutes	45 minutes

Webinar views since made available through the ALBATTTS website: 23¹

FACEBOOK VIDEO POST INSIGHTS

Viewer Activities	Reach	91
Interactions	Reactions	7
	Comments	4
	Shares	0

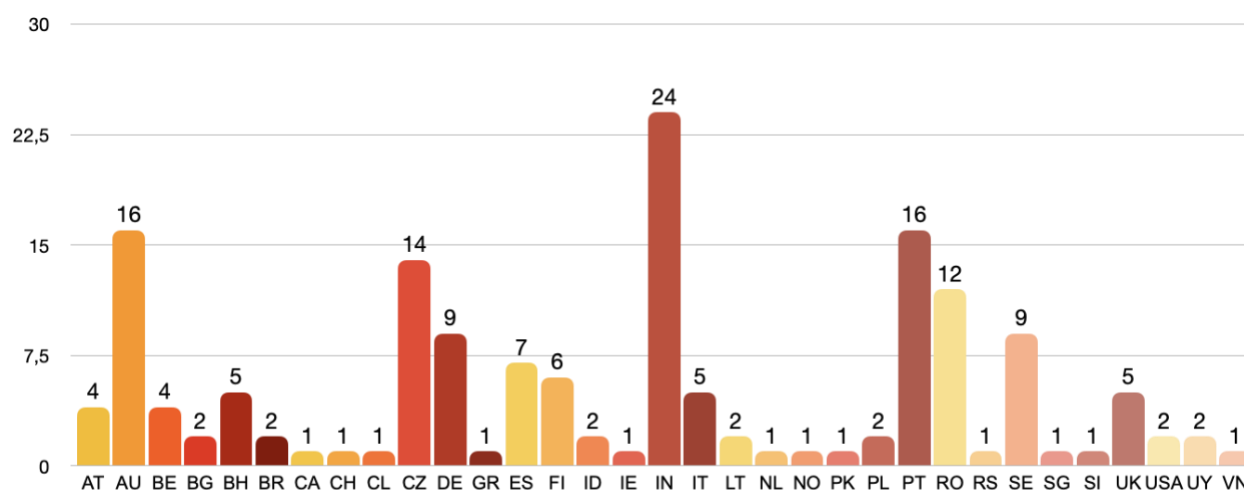
¹ The most recent data point for this statistic was collected in March 2023. This is because Webex currently does not provide access to data for this timeframe.

5.3.8. Servicing of Electric Vehicles: Future Qualifications Needed



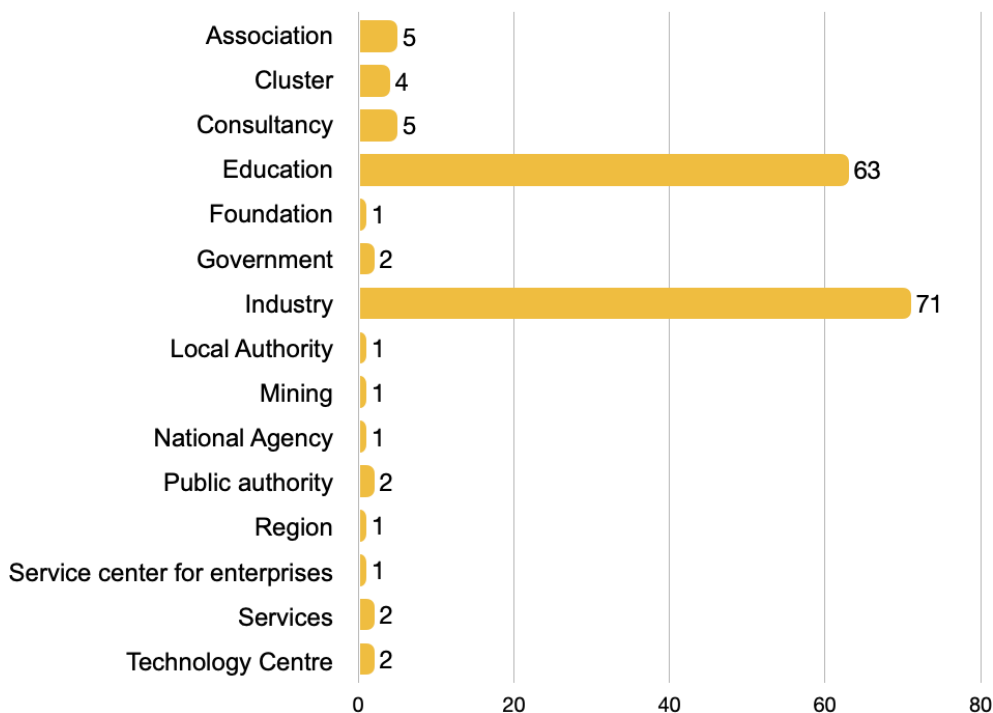
This online event was held on 29/09/2021 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **33 countries (16 from outside the EU)**, as shown in the graphic below.



44% of registrations were from the industry sector and 39% were from the education sector.

Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
162	80	98 minutes	77 minutes

Webinar views since made available through the ALBATTTS website: 21¹

FACEBOOK VIDEO POST INSIGHTS

Viewer Activities	Reach	35 people
Interactions	Reactions	5
	Comments	0
	Shares	0

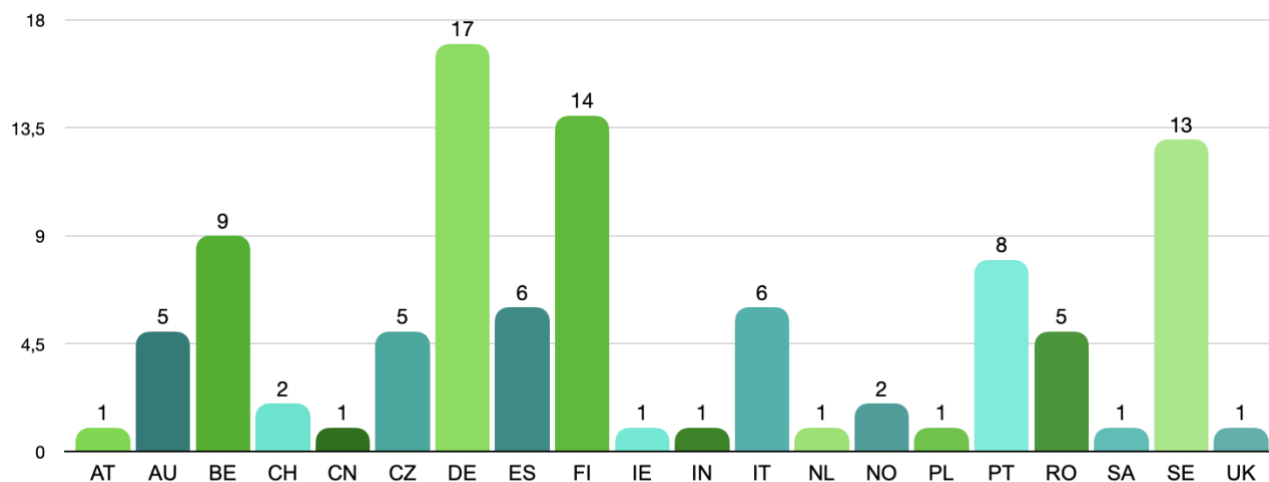
¹ The most recent data point for this statistic was collected in March 2023. This is because Webex currently does not provide access to data for this timeframe.

5.3.9. Interview with Claudia Gamon, Member of the European Parliament

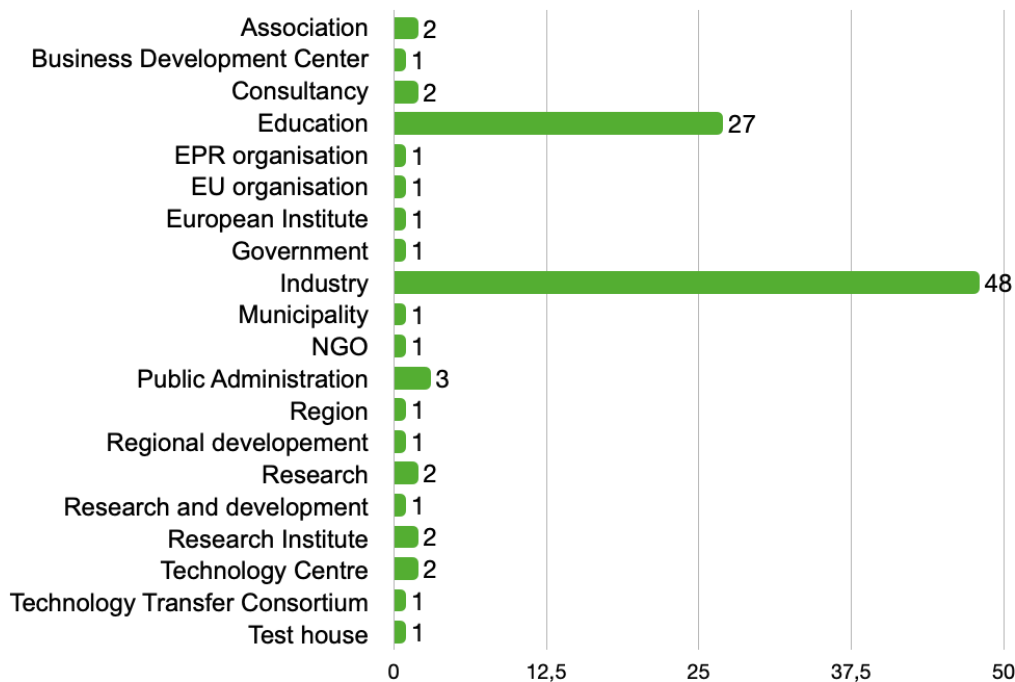


This online interview was held on 12/10/2021.

REGISTRATIONS: Registration requests came from **20 countries (7 from outside the EU)**, as shown in the graphic below.



47% of registrations were from the industry sector and 26% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
100	62	41 minutes	31 minutes

Webinar views since made available through the ALBATTTS website: 32¹

Due to a technical problem, this interview was not livestreamed through Facebook.

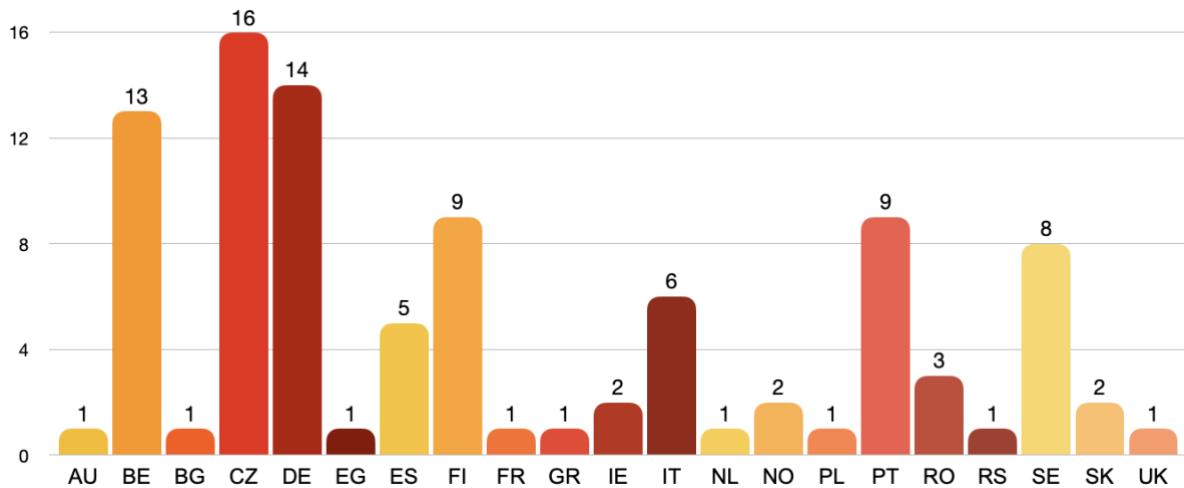
¹ The most recent data point for this statistic was collected in March 2023. This is because Webex currently does not provide access to data for this timeframe.

5.3.10. New EU Battery regulation Proposal: Possible Implications on Job Roles and Skills

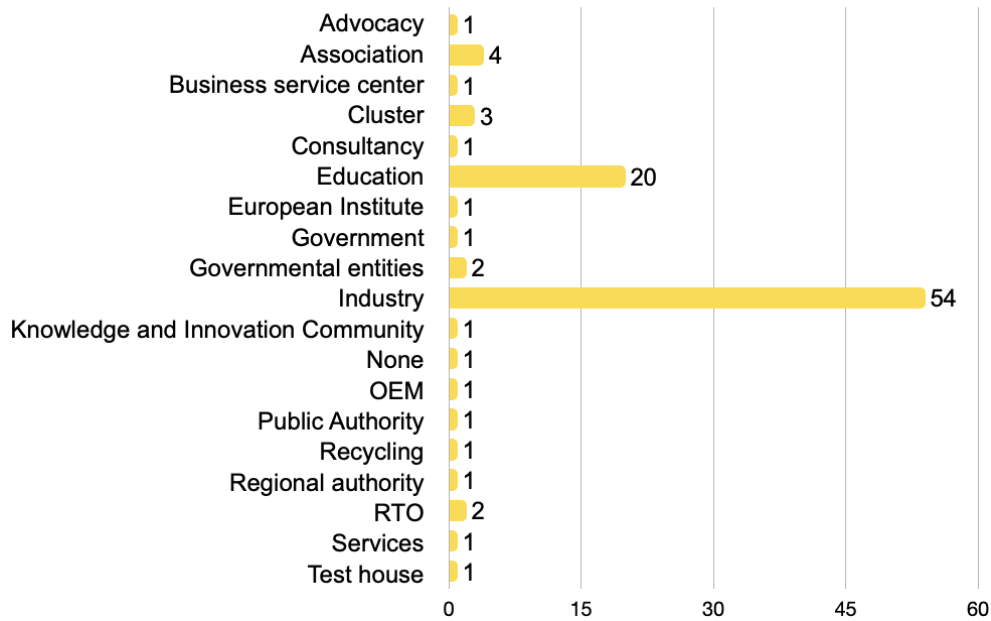


This online event was held on 22/10/2021 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **21 countries (5 from outside the EU)**, as shown in the graphic below.



55% of registrations were from the industry sector and 20% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
98	52	95 minutes	75 minutes

Webinar views since made available through the ALBATTs website: 18¹

FACEBOOK VIDEO POST INSIGHTS

Viewer Activities	Reach	44 people
Interactions	Reactions	4
	Comments	1
	Shares	0

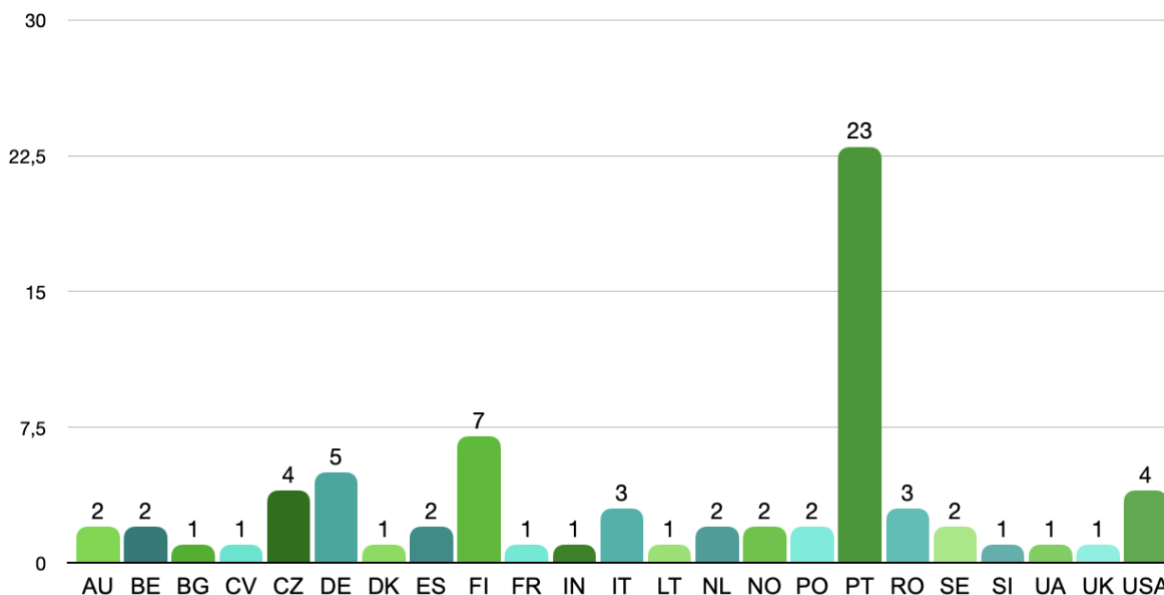
¹ The most recent data point for this statistic was collected in March 2023. This is because Webex currently does not provide access to data for this timeframe.

5.3.11. Interview with Duarte Conde Silva, Plant Manager at Gracióllica

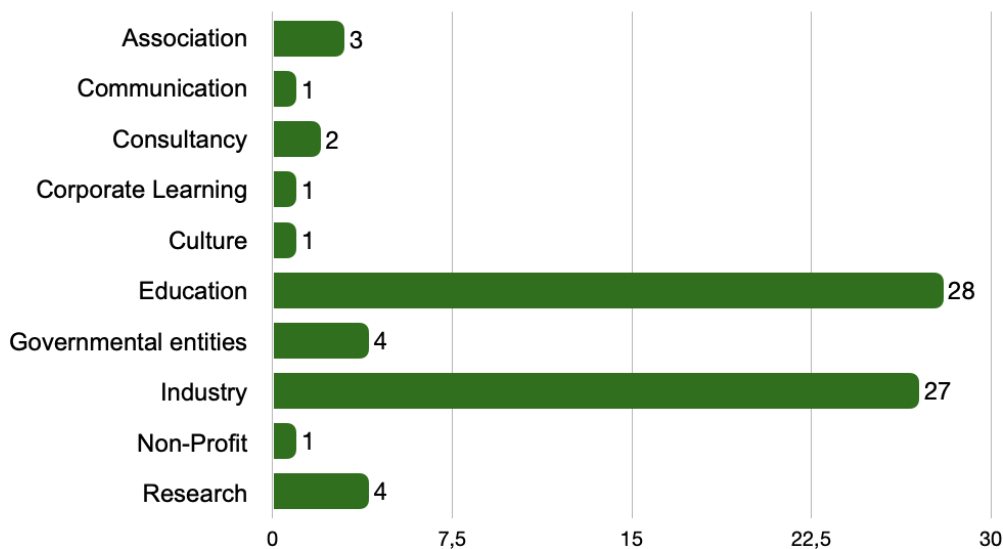


This interview event was held on 17/11/2021 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **23 countries (6 from outside the EU)**, as shown in the graphic below.



38% of registrations were from the industry sector and 39% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
72	43	37 minutes	30 minutes

Webinar views since made available through the ALBATTTS website: 27¹

FACEBOOK VIDEO POST INSIGHTS

Viewer Activities	Reach	50 people
Interactions	Reactions	8
	Comments	3
	Shares	0

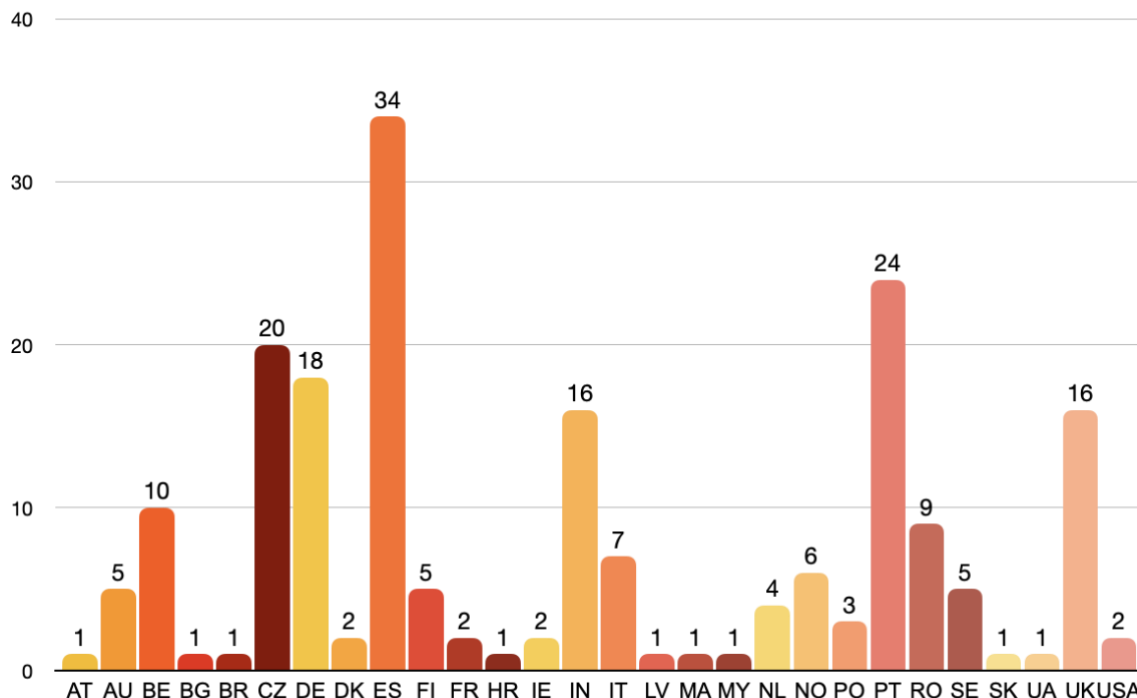
¹ The most recent data point for this statistic was collected in March 2023. This is because Webex currently does not provide access to data for this timeframe.

5.3.12. Recycling Electric Vehicles' Batteries: Skills and Qualifications Needed

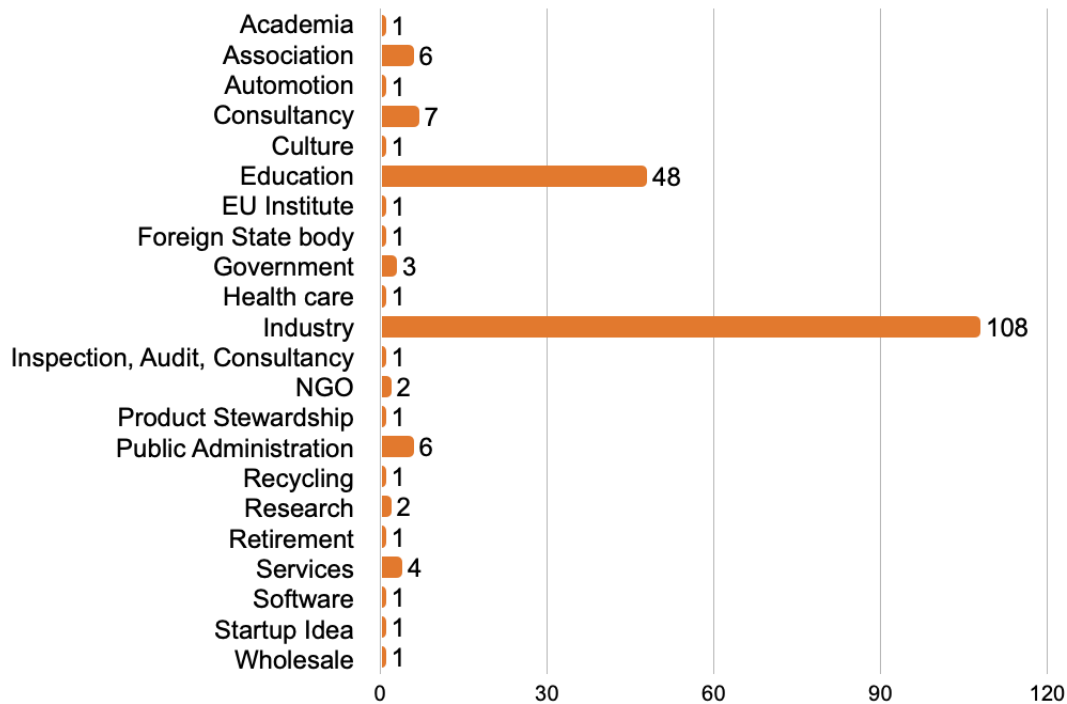


This online event was held on 30/11/2021 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **28 countries (9 from outside the EU)**, as shown in the graphic below.



54% of registration were from the industry sector and 24% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
199	106	90 minutes	62 minutes

Webinar views since made available through the ALBATTTS website: 59¹

FACEBOOK VIDEO POST INSIGHTS

Viewer Activities	Reach	59 people
Interactions	Reactions	6
	Comments	3
	Shares	2

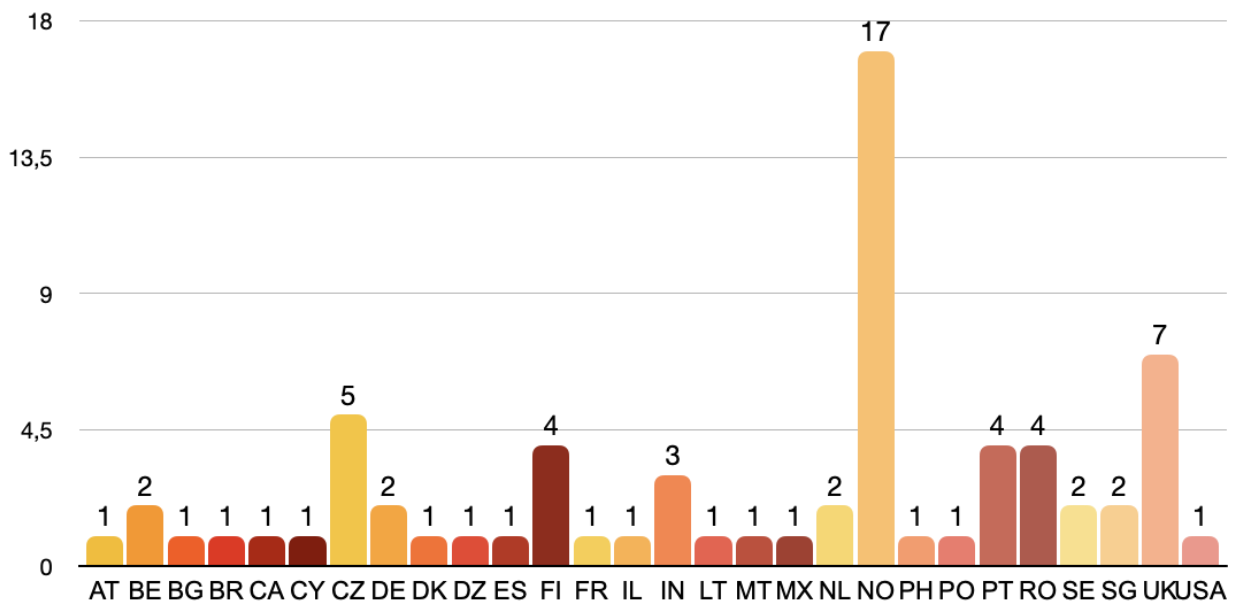
¹ The most recent data point for this statistic was collected in March 2023. This is because Webex currently does not provide access to data for this timeframe.

5.3.13. Autonomous Operations and Virtual Reality in Maritime: Job Roles & Skills

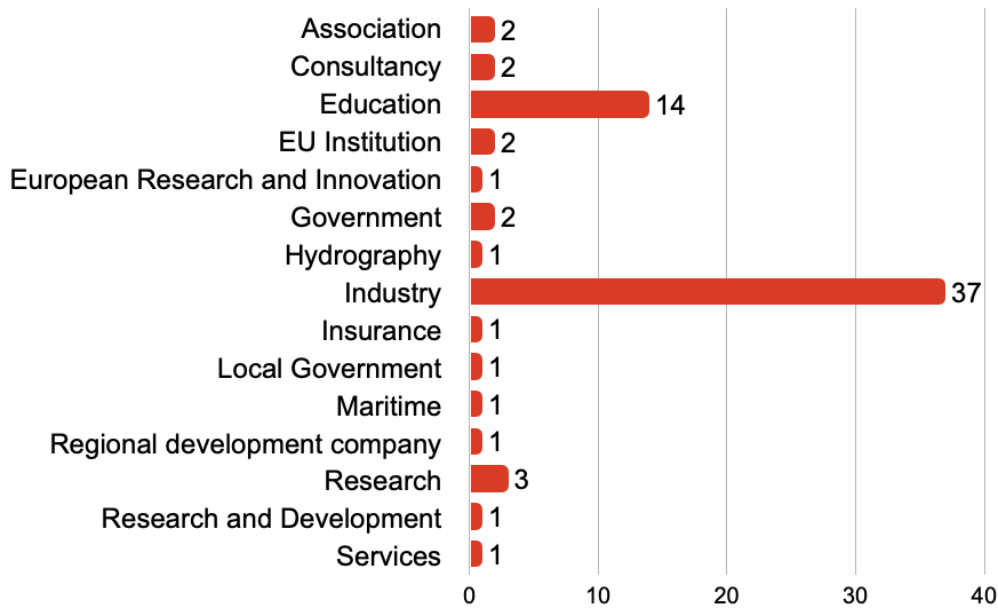


This online event was held on 07/12/2021 and was [live-streamed through Facebook](#).

REGISTRATIONS: Registration requests came from **28 countries (11 from outside the EU)**, as shown in the graphic below.



53% of registrations were from the industry sector and 20% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
70	46	90 minutes	66 minutes

Webinar views since made available through the ALBATTTS website: 9¹

FACEBOOK VIDEO POST INSIGHTS

Viewer Activities	Reach	42 people
Interactions	Reactions	1
	Comments	0
	Shares	0

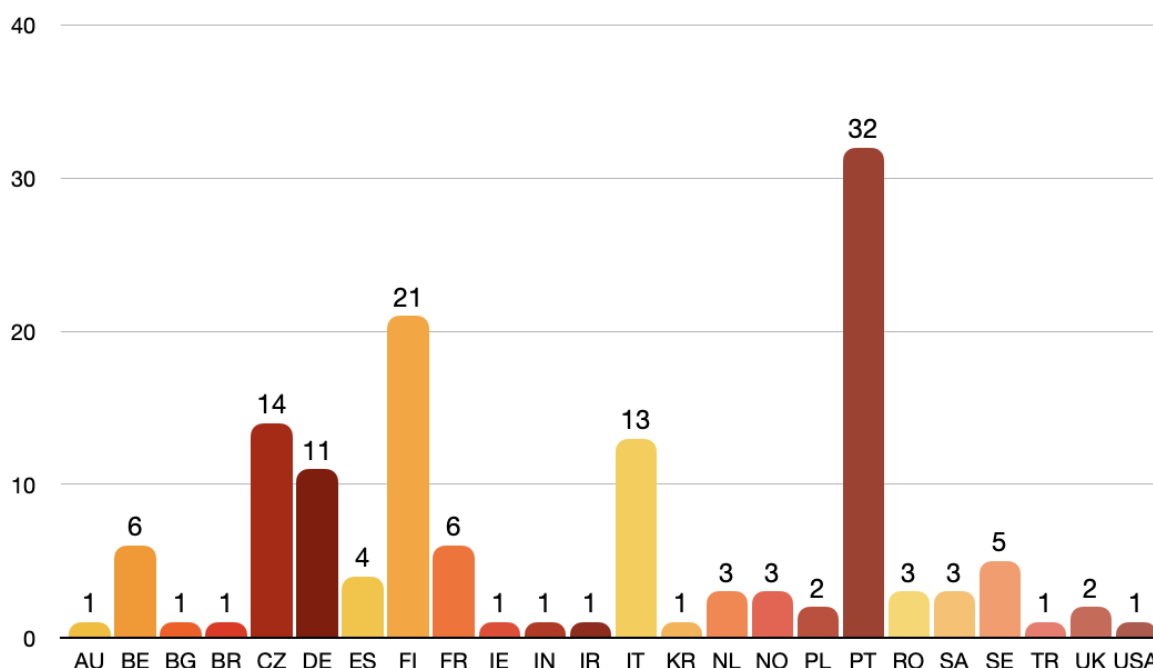
¹ The most recent data point for this statistic was collected in March 2023. This is because Webex currently does not provide access to data for this timeframe.

5.3.14. Lithium Mining and Extraction: European Sourcing and Skills

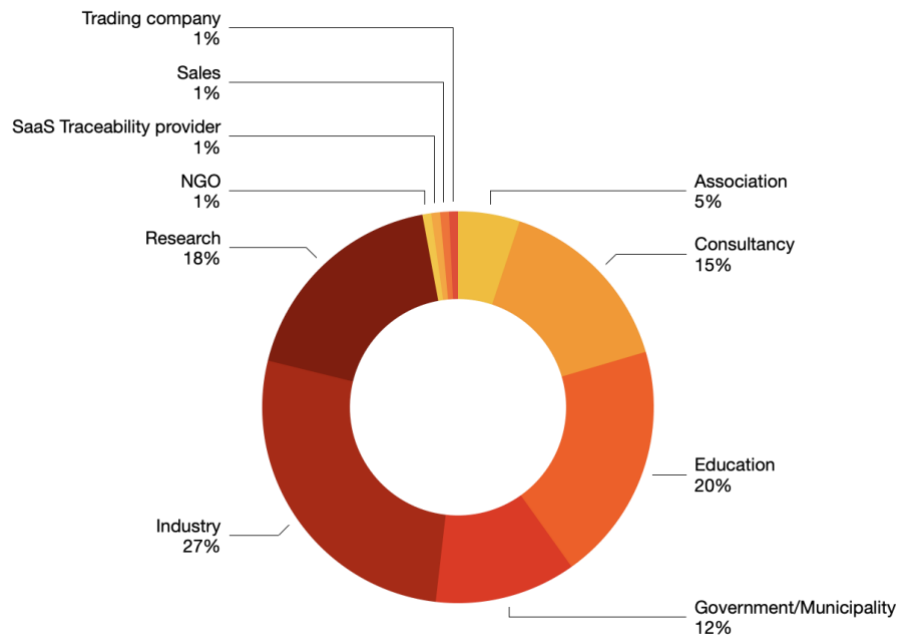


This online event was held on 27/04/2022 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **24 countries (8 from outside the EU)**, as shown in the graphic below.



27% of registrations were from the industry sector and 20% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
138	73	120 minutes	82 minutes

Webinar views since made available through the ALBATTs website: 116

FACEBOOK VIDEO POST INSIGHTS

Viewer Activities	Reach	48 people
Interactions	Reactions	11
	Comments	4
	Shares	0

5.3.15. Preparing a Sustainable Clean Energy Ecosystem - Skills for Battery Systems



This workshop was held on 13/10/2022 as a side event of the European Week of Regions and Cities 2022. Its recording can be accessed [here](#).

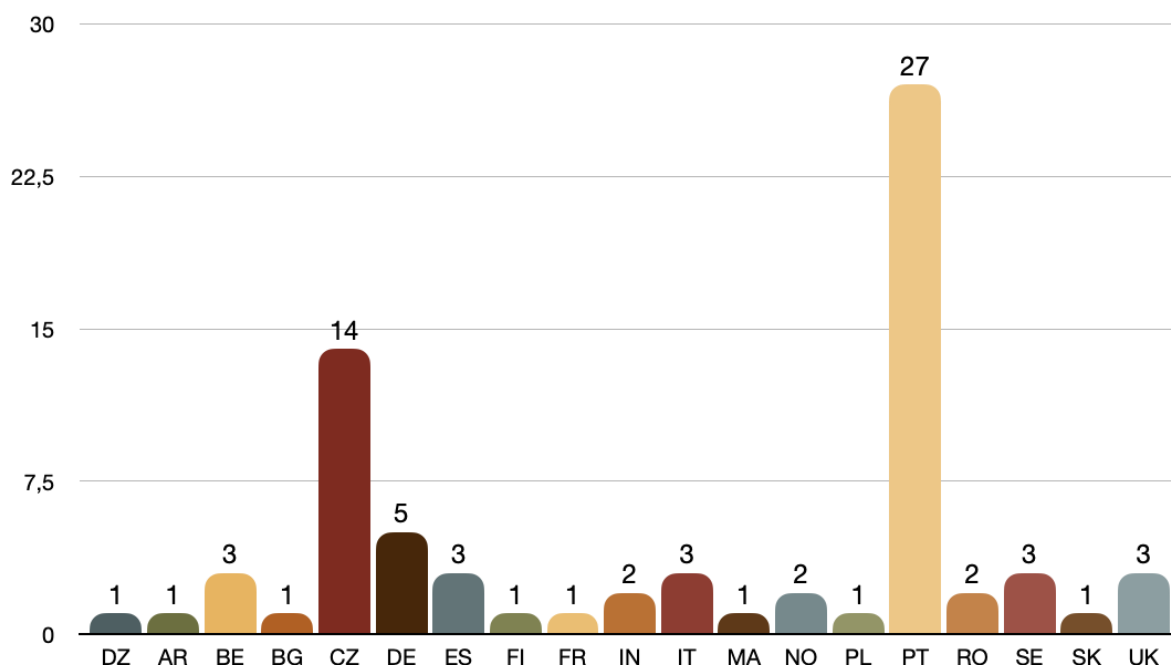
Number of registration requests:	50
Number of participants:	49

5.3.16. Interview with Tomáš Kazda, Associate Professor at the Brno University of Technology



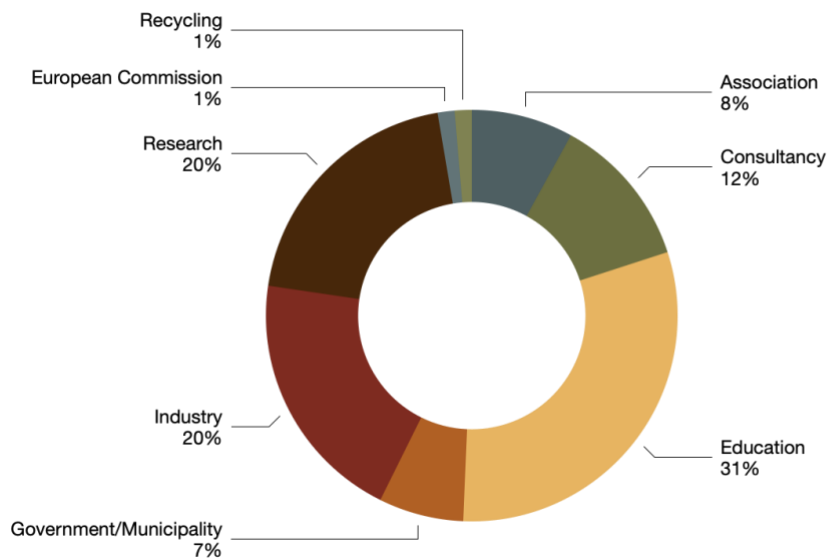
This online event was held on 26/10/2022 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **19 countries (6 from outside the EU)**, as shown in the graphic below.



20% of registrations were from the industry sector and 31% were from the education sector.

Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
75	44	60 minutes	47 minutes

Webinar views since made available through the ALBATTTS website: 29

FACEBOOK VIDEO POST INSIGHTS

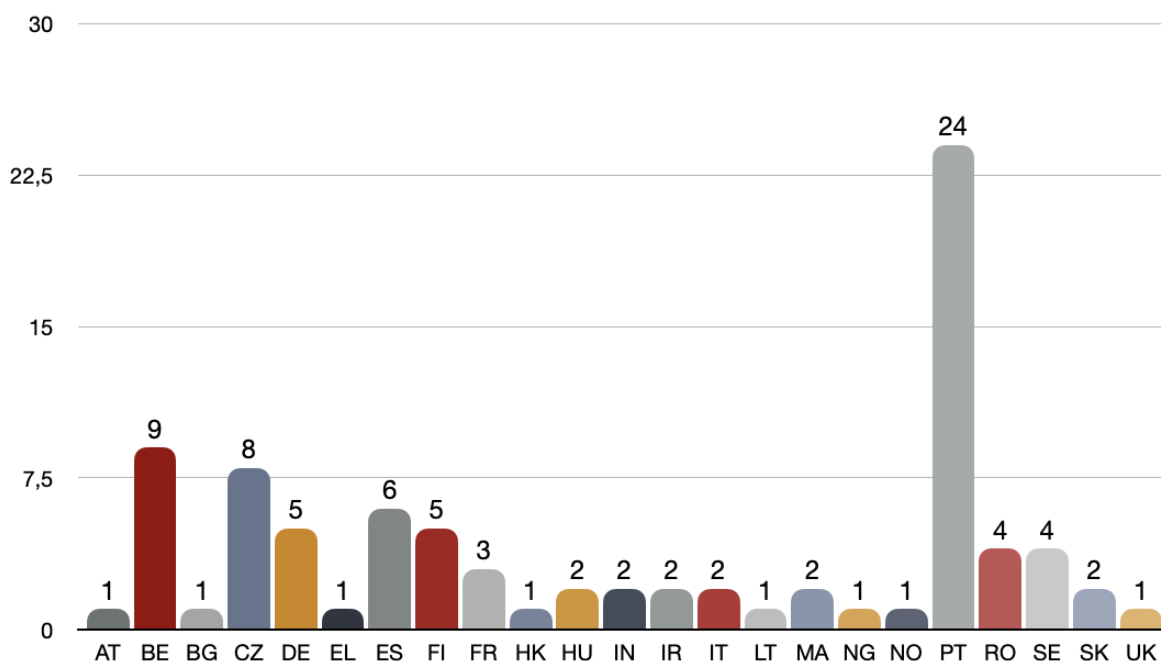
Viewer Activities	Reach	98 people
Interactions	Reactions	6
	Comments	0
	Shares	2

5.3.17. Interview with Noshin Omar, Founder & CEO of Avesta Battery & Energy Engineering



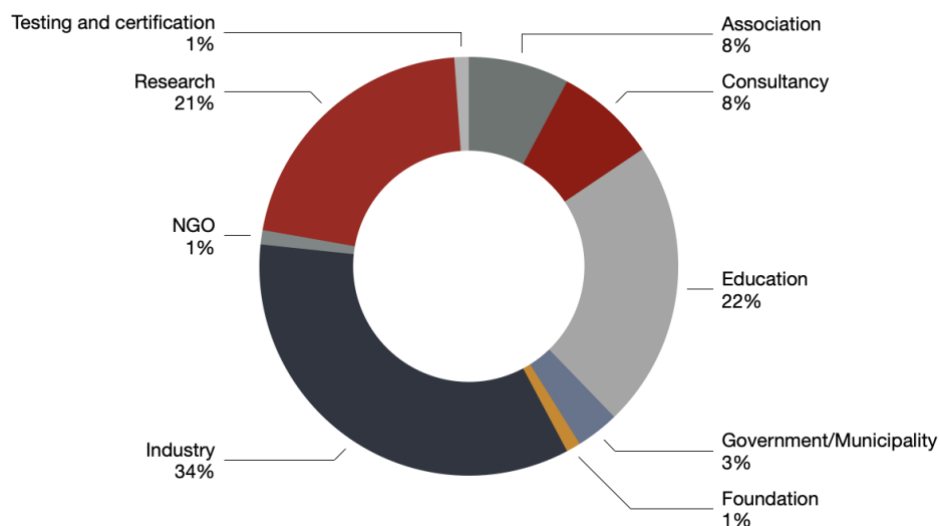
This online event was held on 14/11/2022 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **23 countries (7 from outside the EU)**, as shown in the graphic below.



34% of registrations were from the industry sector and 22% were from the education sector.

Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
90	54	70 minutes	51 minutes

Webinar views since made available through the ALBATTTS website: 14

FACEBOOK VIDEO POST INSIGHTS

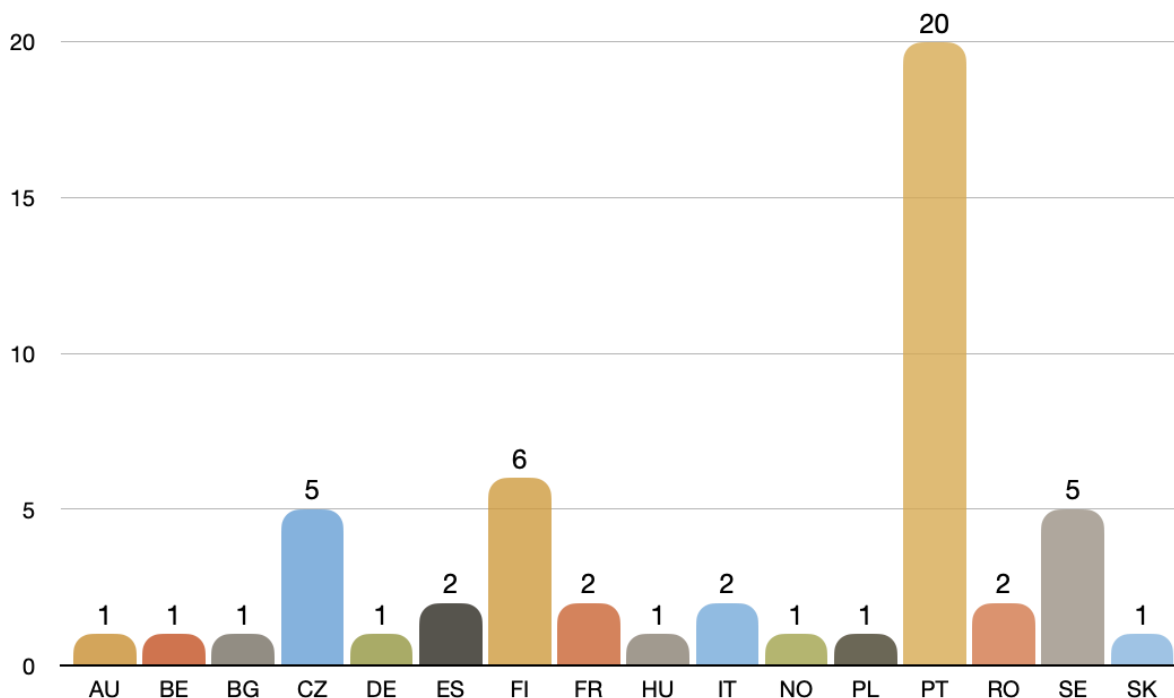
Viewer Activities	Reach	22 people
Interactions	Reactions	4
	Comments	0
	Shares	0

5.3.18. Interview with Ylva Olofsson, System Design Engineer & Project Manager at Volvo

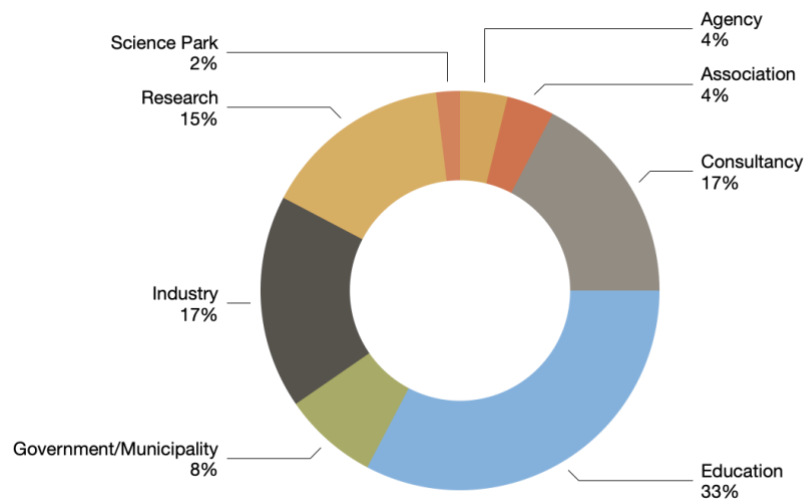


This interview was held on 22/11/2022 and was [live livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **16 countries (2 from outside the EU)**, as shown in the graphic below.



17% of registrations were from the industry sector and 33% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
52	22	44 minutes	44 minutes

Webinar views since made available through the ALBATTs website: 23

FACEBOOK VIDEO POST INSIGHTS

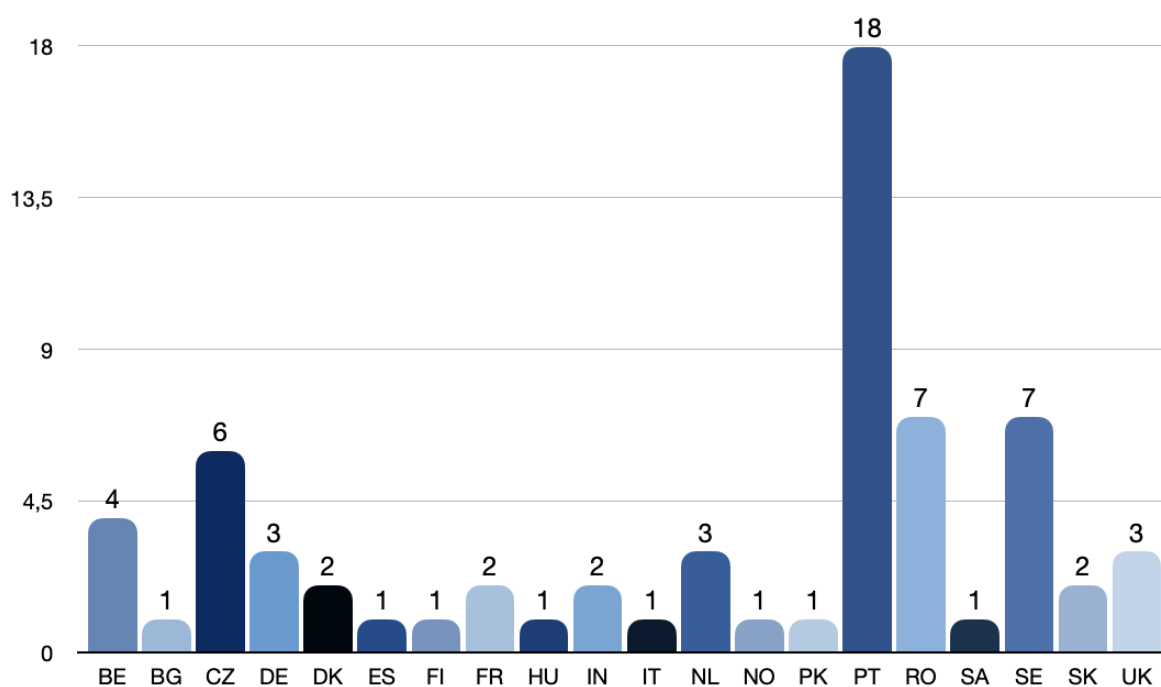
Viewer Activities	Reach	34
Interactions	Reactions	3
	Comments	4
	Shares	0

5.3.19. Battery Management Systems and Control Systems: Job Roles, Skills and Competencies



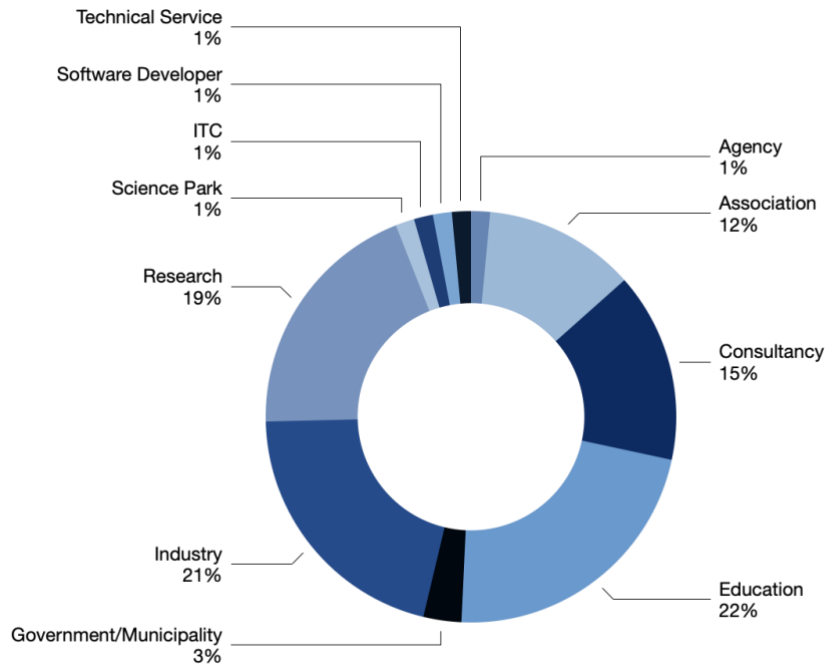
This online event was held on 24/11/2022 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **20 countries (5 from outside the EU)**, as shown in the graphic below.



21% of registrations were from the industry sector and 22% were from the education sector. Other registrations were from the sectors in the visual representation provided below.





WEBEX INSIGHTS

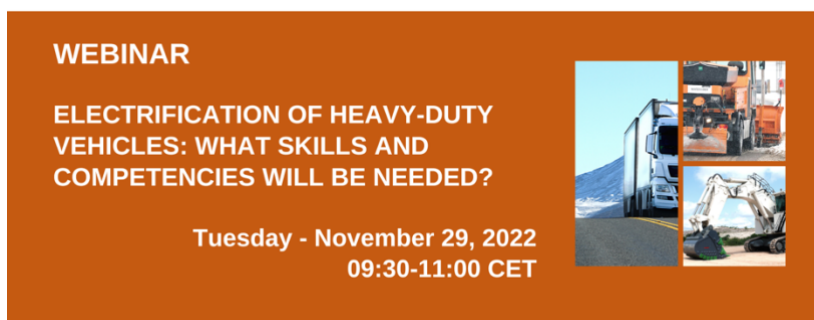
Registrations	Attendees	Event timeframe	Attendees average viewing time
67	42	63 minutes	56 minutes

Webinar views since made available through the ALBATTTS website: 29

FACEBOOK VIDEO POST INSIGHTS

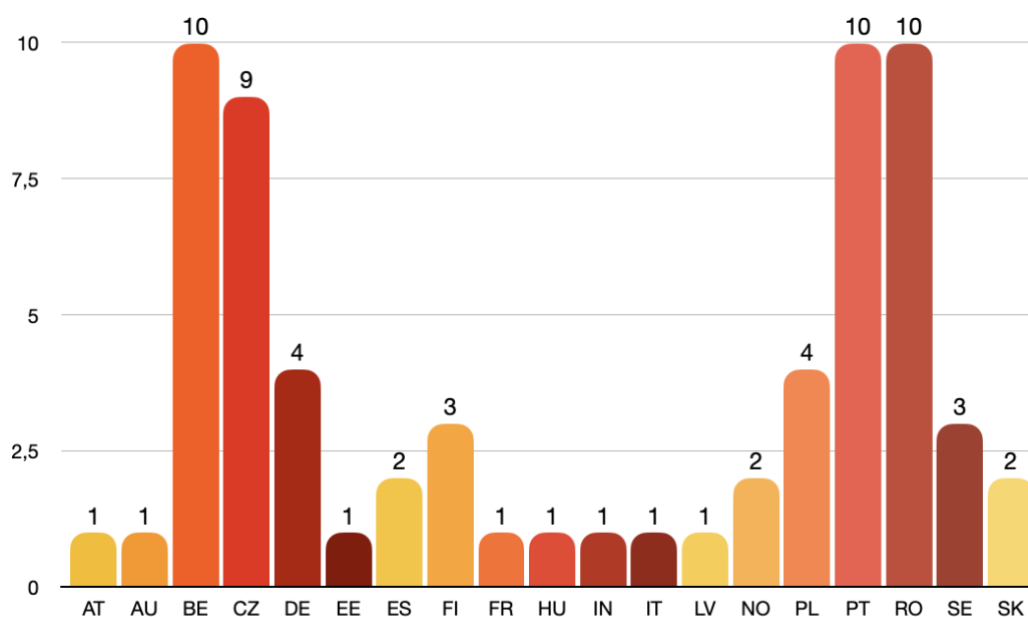
Viewer Activities	Reach	20 people
Interactions	Reactions	5
	Comments	2
	Shares	0

5.3.20. Electrification of Heavy-Duty Vehicles: What Skills and Competencies Will be Needed?



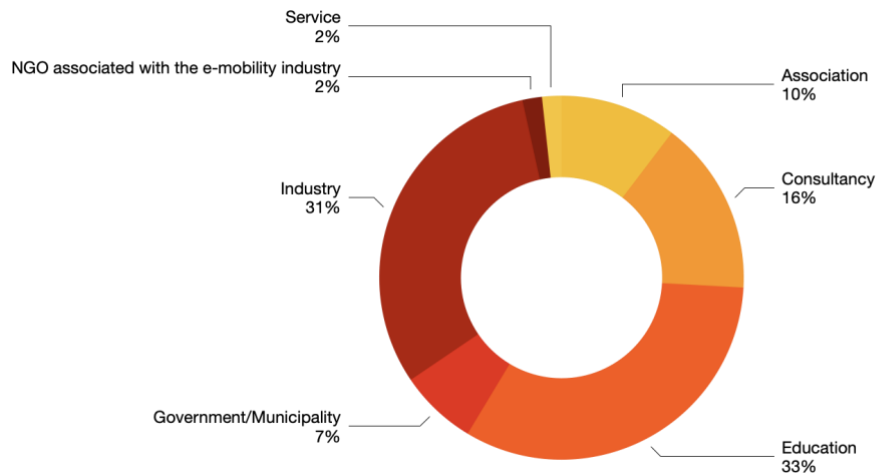
This online event was held on 29/11/2022 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **19 countries (3 from outside the EU)**, as shown in the graphic below.



31% of registrations were from the industry sector and 33% were from the education sector. Other registrations were from the sectors in the visual representation provided below.





WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
67	54	89 minutes	72 minutes

Webinar views since made available through the ALBATTs website: 16

FACEBOOK VIDEO POST INSIGHTS

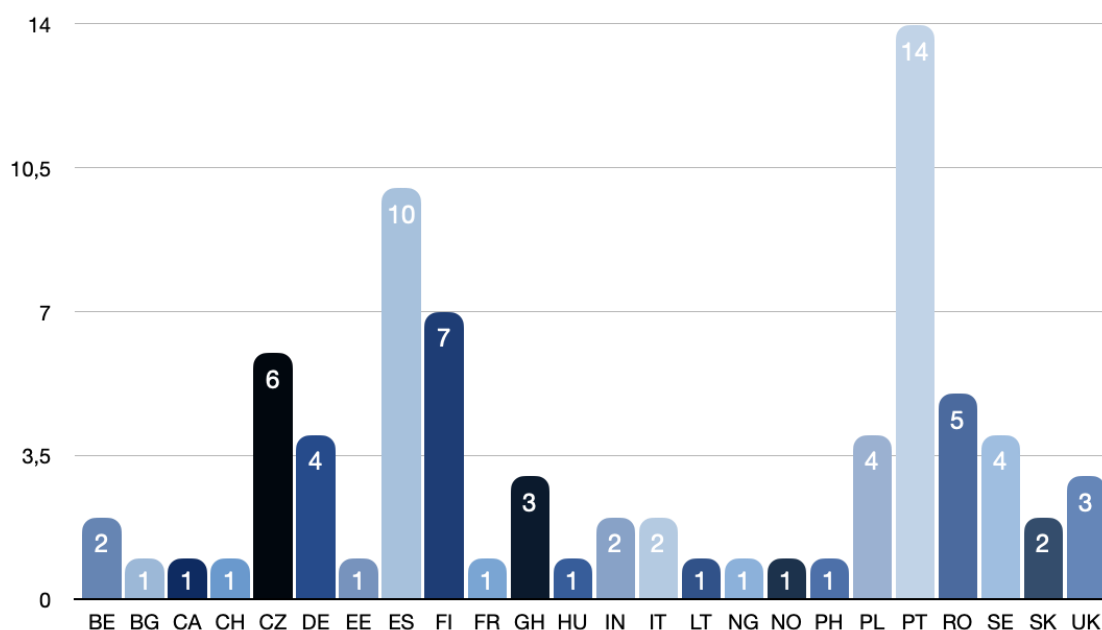
Viewer Activities	Reach	16 people
Interactions	Reactions	4
	Comments	0
	Shares	0

5.3.21. Electrification of the Aviation Sector and Future Qualifications Needed

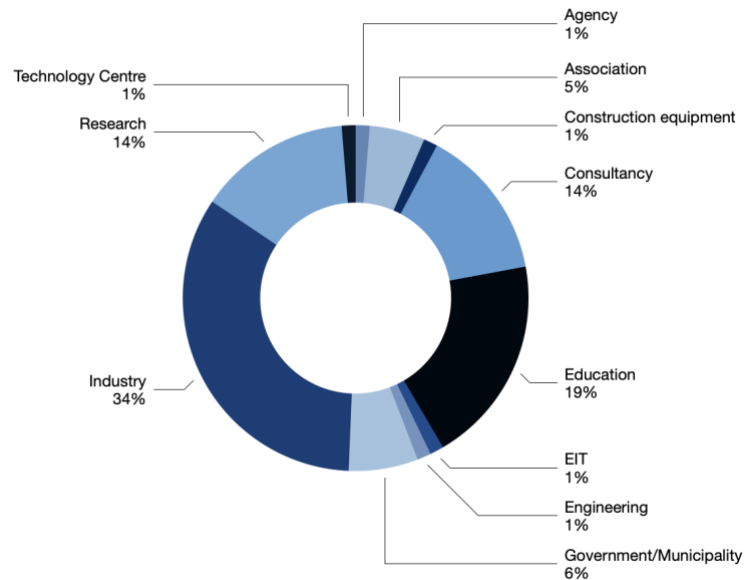


This online event was held on 17/01/2023 and was [live livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **24 countries (8 from outside the EU)**, as shown in the graphic below.



34% of registrations were from the industry sector and 19% were from the education sector, closely followed by research and consultancy. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
78	42	69 minutes	56 minutes

Webinar views since made available through the ALBATTs website: 17

FACEBOOK VIDEO POST INSIGHTS

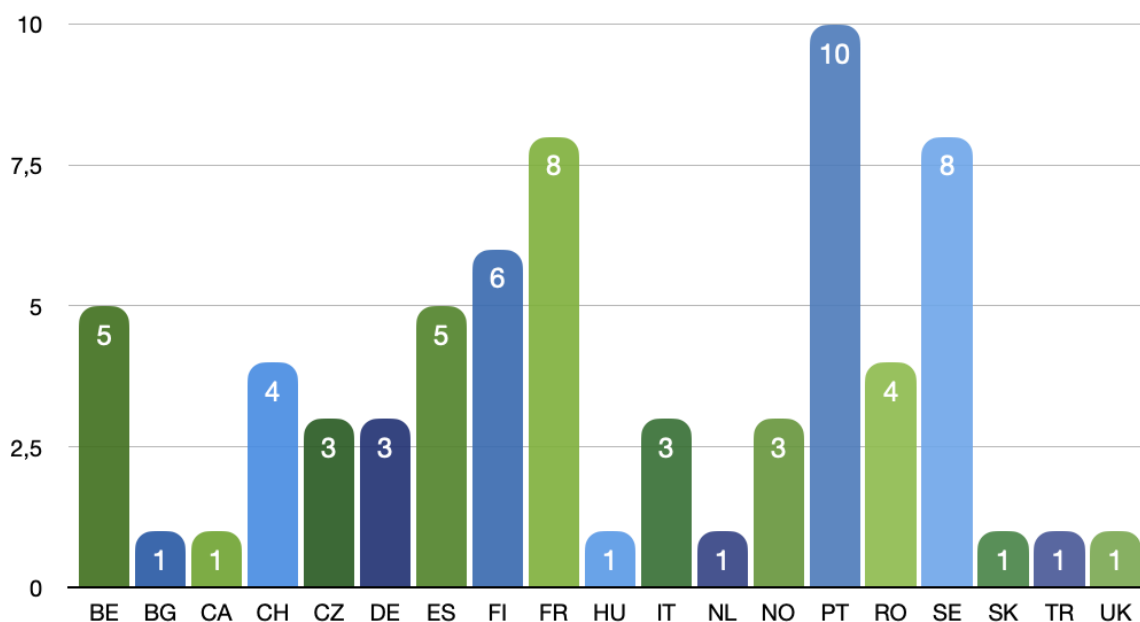
Viewer Activities	Reach	33 people
Interactions	Reactions	3
	Comments	1
	Shares	0

5.3.22. Interview with Daniel Cios, EC Policy Officer – Raw Materials at DG GROW

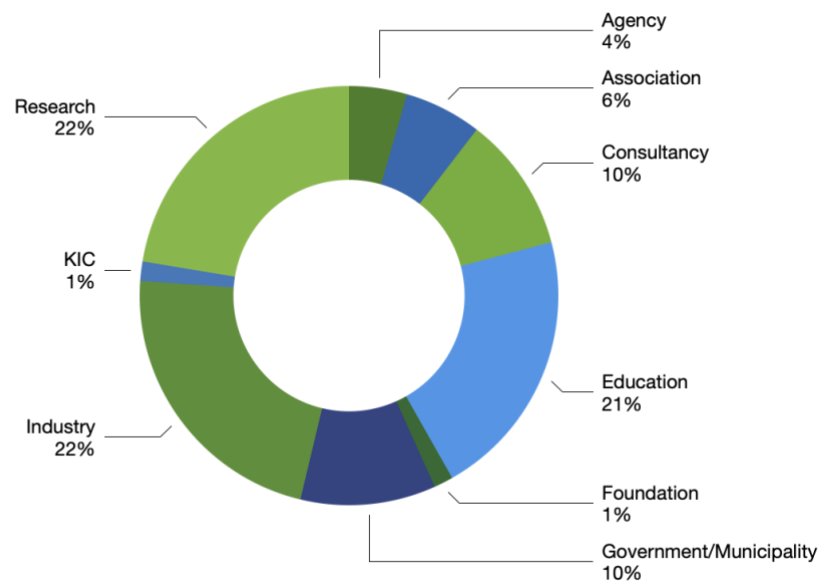


This interview was held on 19/01/2023 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **19 countries (5 from outside the EU)**, as shown in the graphic below.



22% of registrations were from the industry sector, another 22% from the research sector, and 21% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
69	42	63 minutes	52 minutes

Webinar views since made available through the ALBATTTS website: 32. It was downloaded 2 times.

FACEBOOK VIDEO POST INSIGHTS

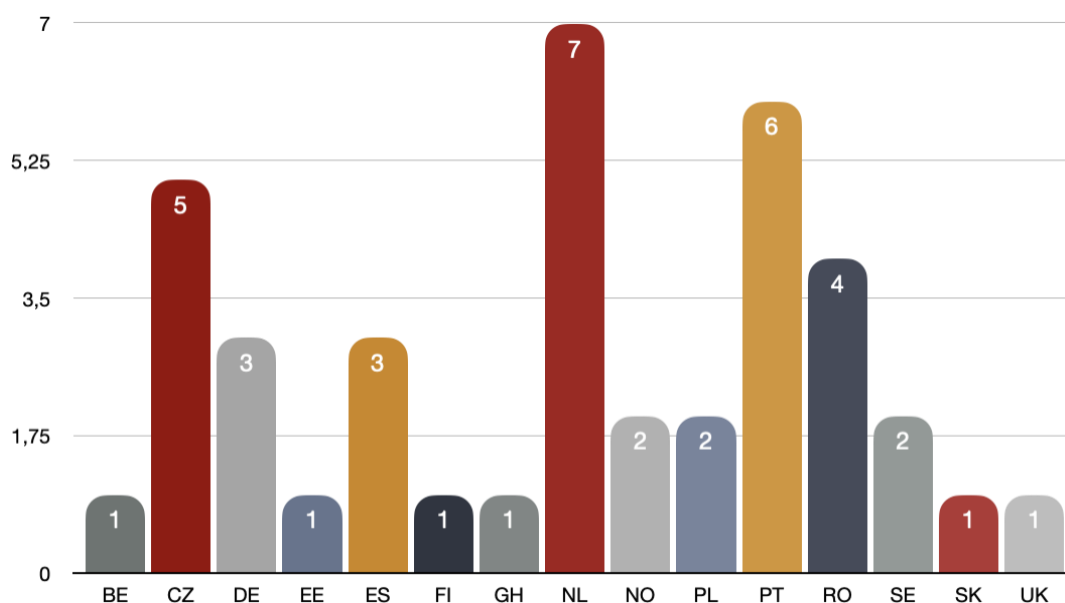
Viewer Activities	Reach	48 people
Interactions	Reactions	5
	Comments	1
	Shares	0

5.3.23. Electrification of Inland Waterways and Future Qualifications Needed

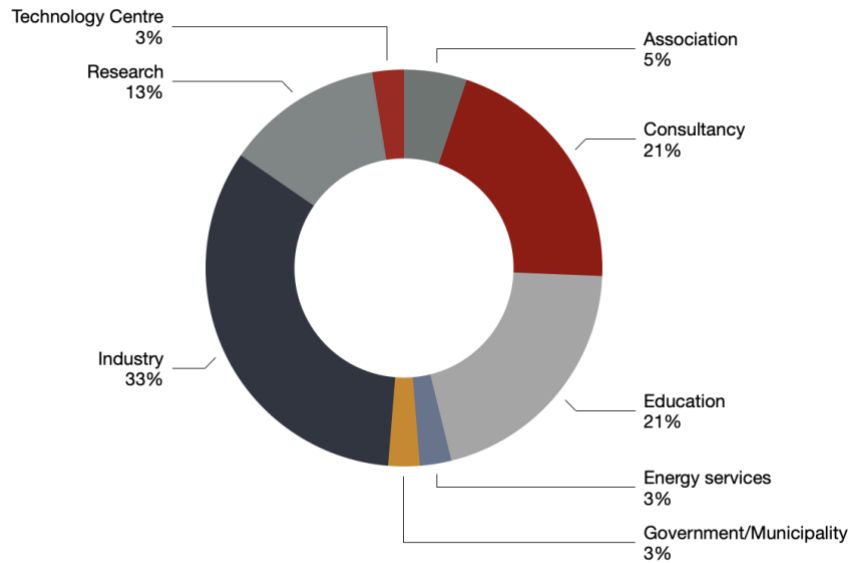


This online event was held on 26/01/2023 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **15 countries (3 from outside the EU)**, as shown in the graphic below.



33% of registrations were from the industry sector and 21% were from the education sector. Consultancies also made 21% of the audience. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
40	38	120 minutes	95 minutes

Webinar views since made available through the ALBATTs website: 5

FACEBOOK VIDEO POST INSIGHTS

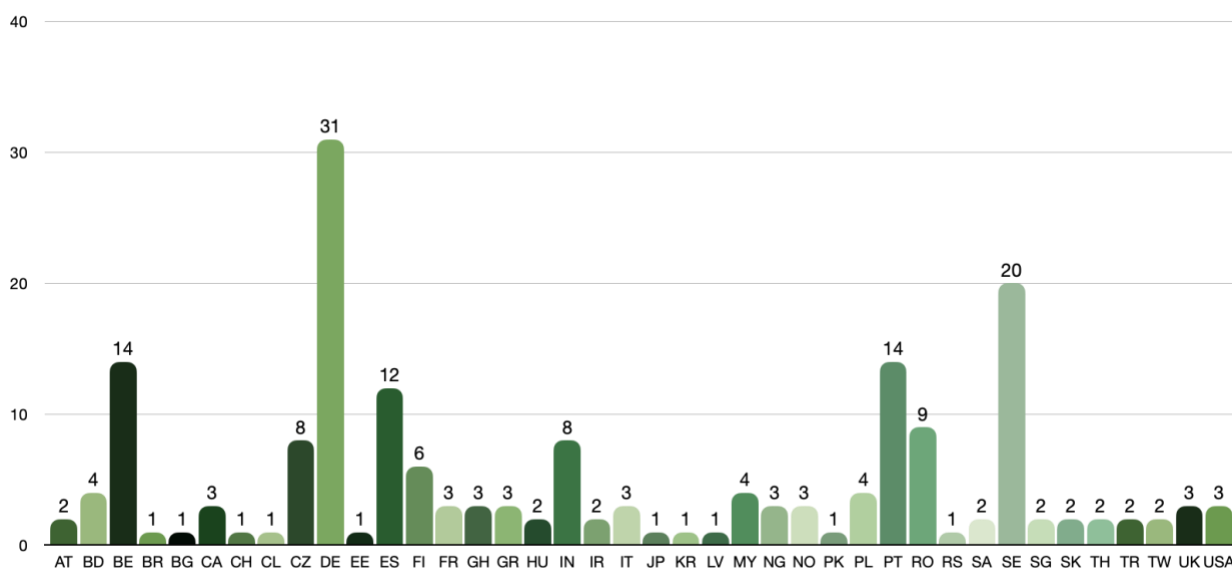
Viewer Activities	Reach	51 people
Interactions	Reactions	1
	Comments	0
	Shares	0

5.3.24. Safe Recycling & Second Use of EV Batteries: Skills and Competencies Needed

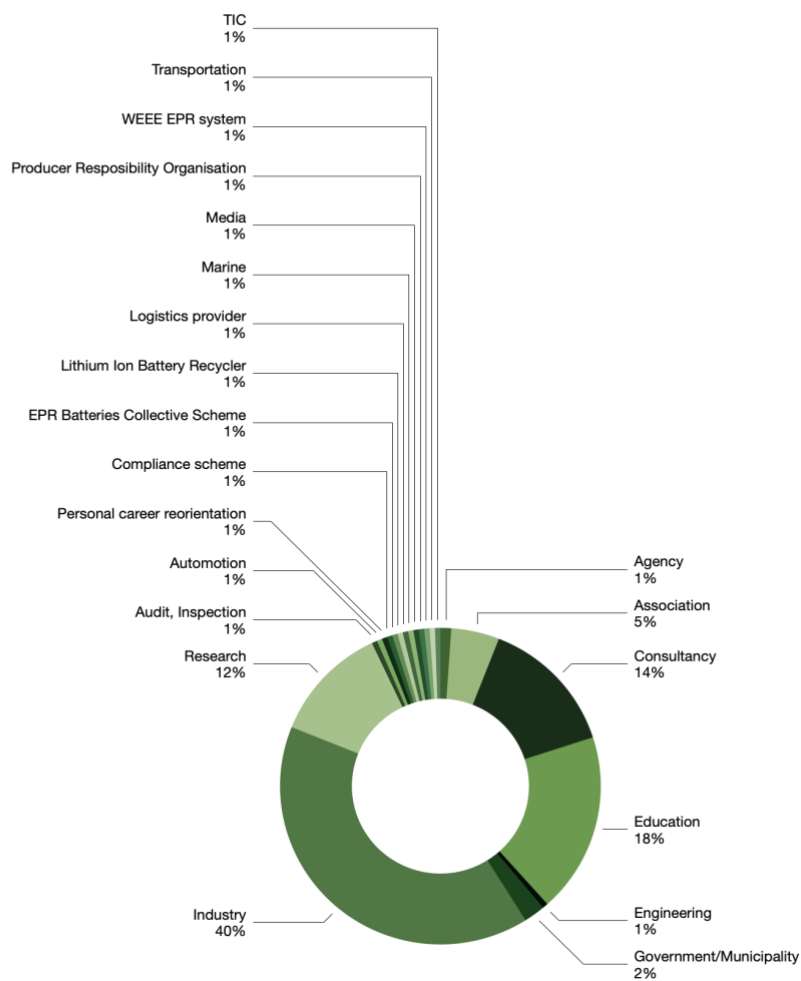


This online event was held on 27/01/2023 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **40 countries (20 from outside the EU)**, as shown in the graphic below.



40% of registrations were from the industry sector and 18% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
189	120	97 minutes	83 minutes

Webinar views since made available through the ALBATTTS website: 48

FACEBOOK VIDEO POST INSIGHTS

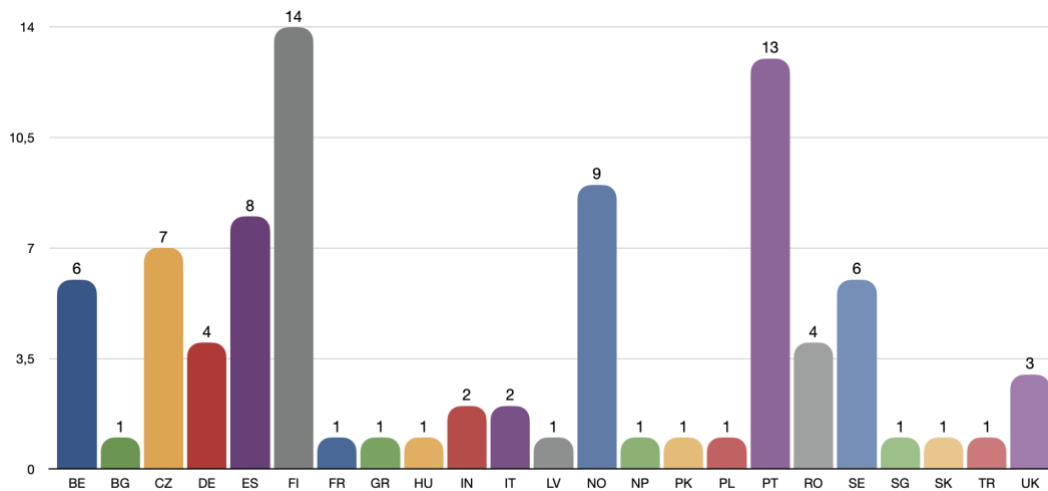
Viewer Activities	Reach	139 people
Interactions	Reactions	4
	Comments	5
	Shares	0

5.3.25. Skills Transition in the Battery Industry

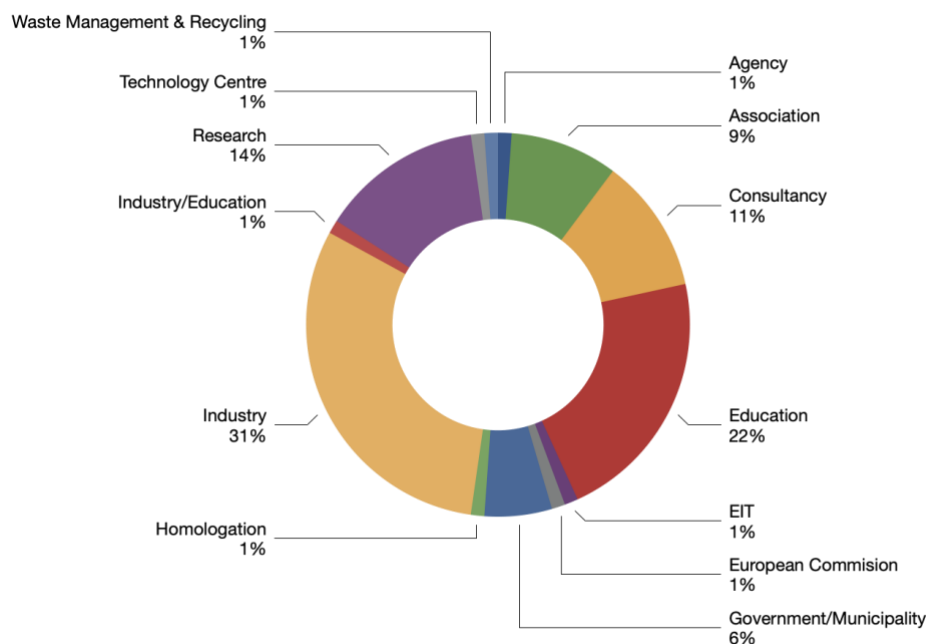


This online event was held on 09/02/2023 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **23 countries (7 from outside the EU)**, as shown in the graphic below.



31% of registrations were from the industry sector and 22% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
89	54	88 minutes	69 minutes

Webinar views since made available through the ALBATTs website: 29. It was downloaded 3 times.

Facebook Video Post Insights

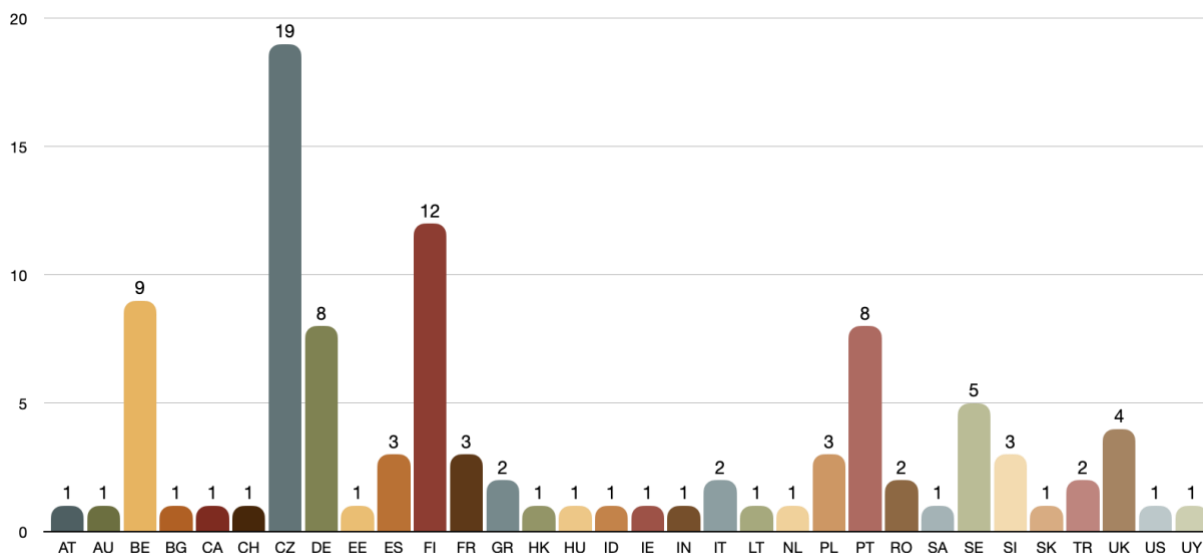
Viewer Activities	Reach	24 people
Interactions	Reactions	2
	Comments	1
	Shares	1

5.3.26. Safety Aspects of Electric Vehicles Manufacturing, Use, Maintenance, Repair and Disposal

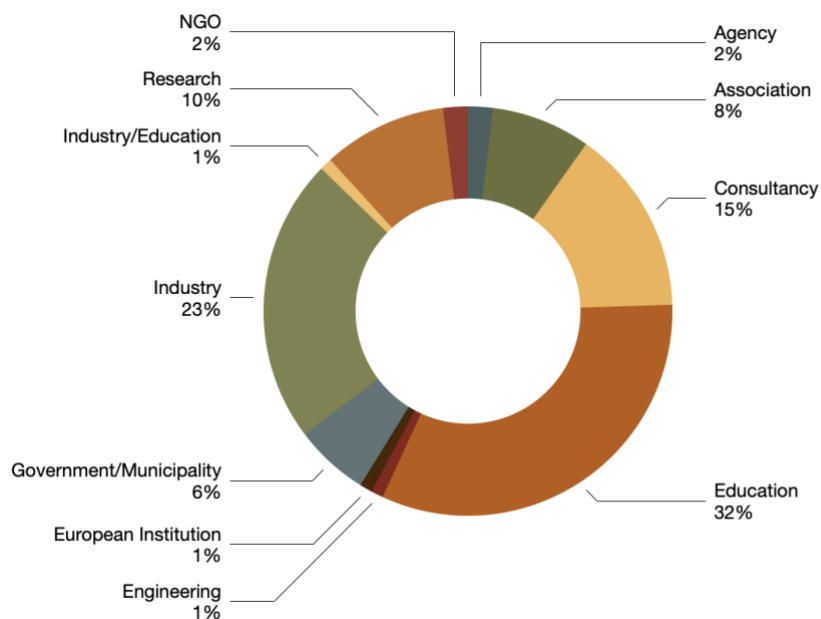


This online event was held on 03/05/2023 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **32 countries (11 from outside the EU)**, as shown in the graphic below.



23% of registrations were from the industry sector and 32% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
102	81	95 minutes	75 minutes

Webinar views since made available through the ALBATTs website: 3

FACEBOOK VIDEO POST INSIGHTS

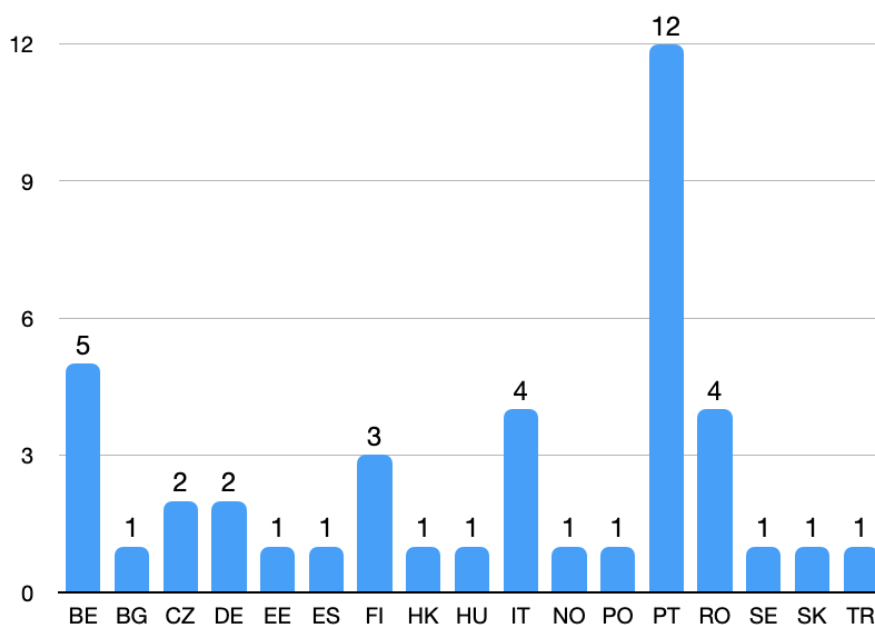
Viewer Activities	Reach	29 people
Interactions	Reactions	4
	Comments	1
	Shares	0

5.3.27. Towards a Functioning Battery Ecosystem – Building Knowledge and Required Skills

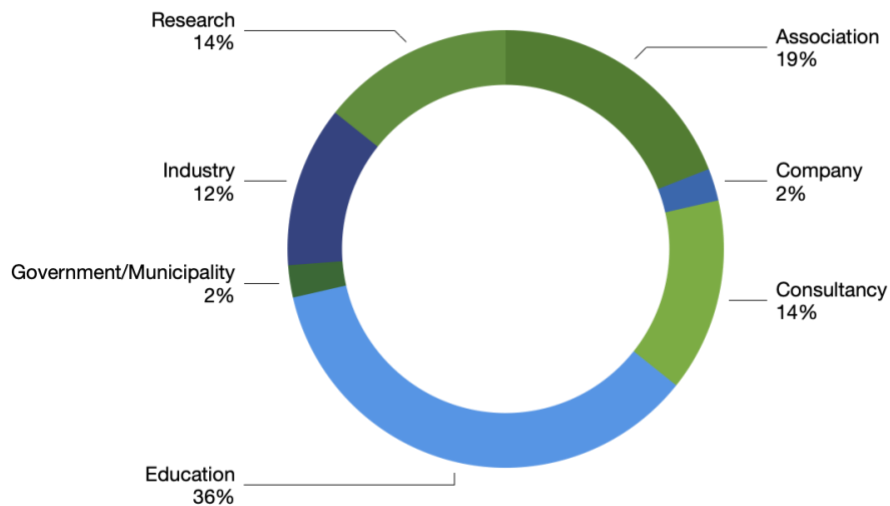


This online event was held on 28/06/2023 and was [livestreamed through Facebook](#).

REGISTRATIONS: Registration requests came from **17 countries (3 from outside the EU)**, as shown in the graphic below.



36% of registrations were from the industry sector and 12% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



WEBEX INSIGHTS

Registrations	Attendees	Event timeframe	Attendees average viewing time
42	22	90 minutes	85 minutes

Webinar views since made available through the ALBATTs website: 9

FACEBOOK VIDEO POST INSIGHTS

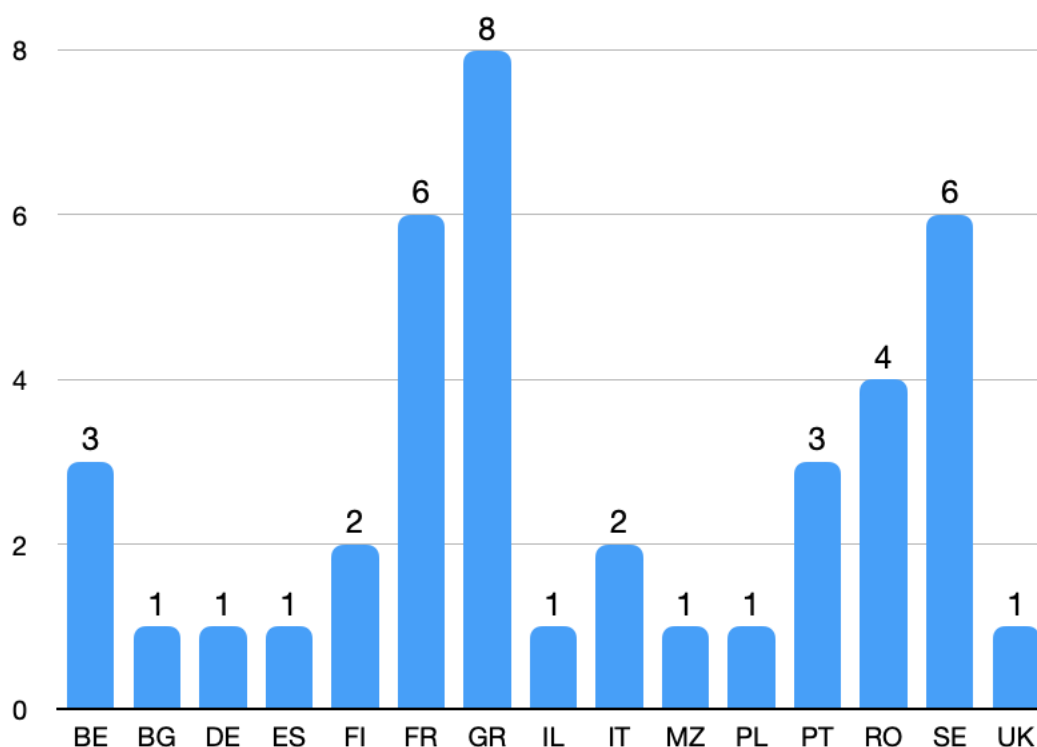
Viewer Activities	Reach	19 people
Interactions	Reactions	1
	Comments	0
	Shares	0

5.3.28. Skills and talent for the Green Transition – Boosting Regional Competitiveness

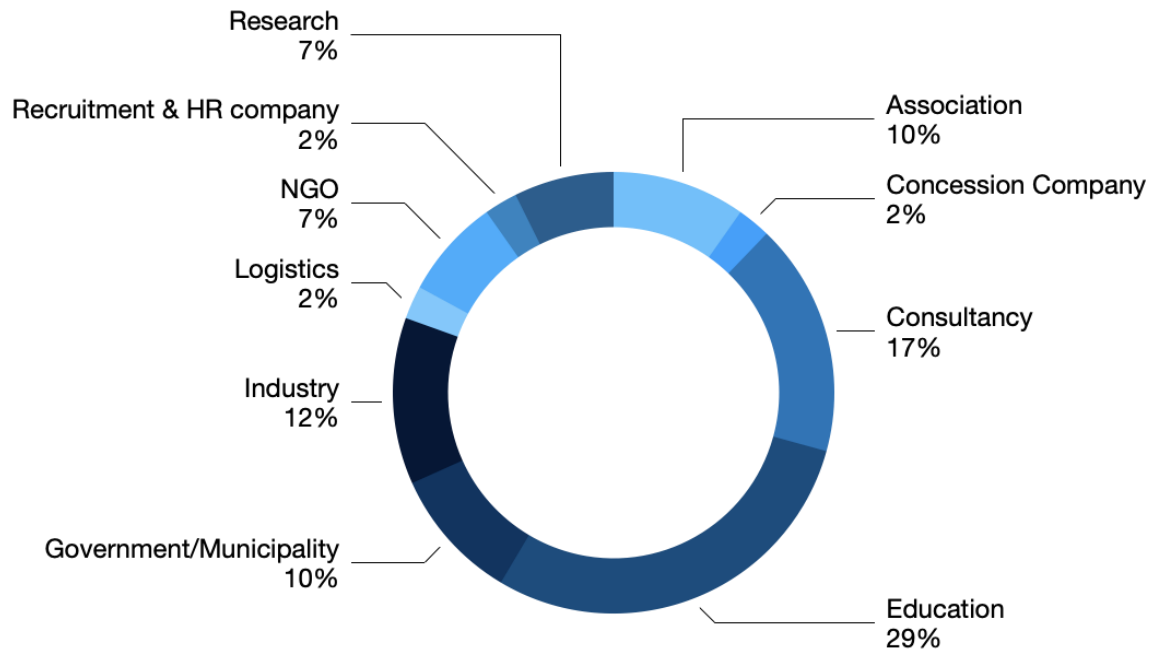


This online event was held on 25/10/2023 within the context of the [European Cities and Regions Week 2023](#). It was streamed through the organisation’s platform.

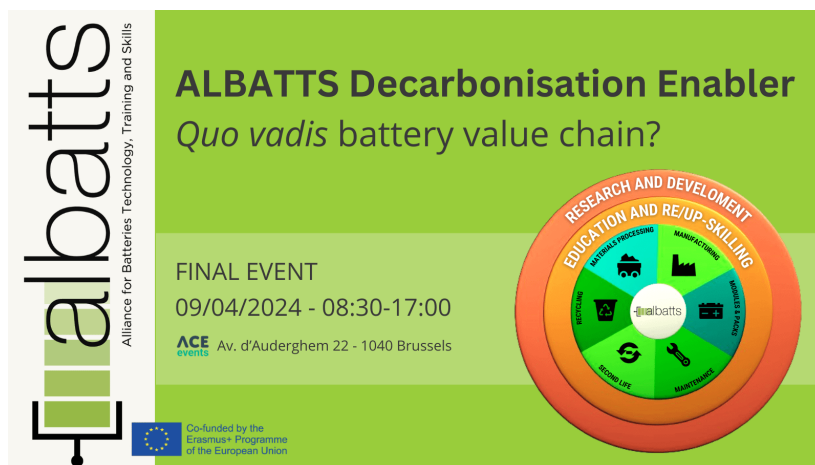
REGISTRATIONS: Registration requests came from **15 countries (3 from outside the EU)**, as shown in the graphic below.



12% of registrations were from the industry sector and 29% were from the education sector. Other registrations were from the sectors in the visual representation provided below.

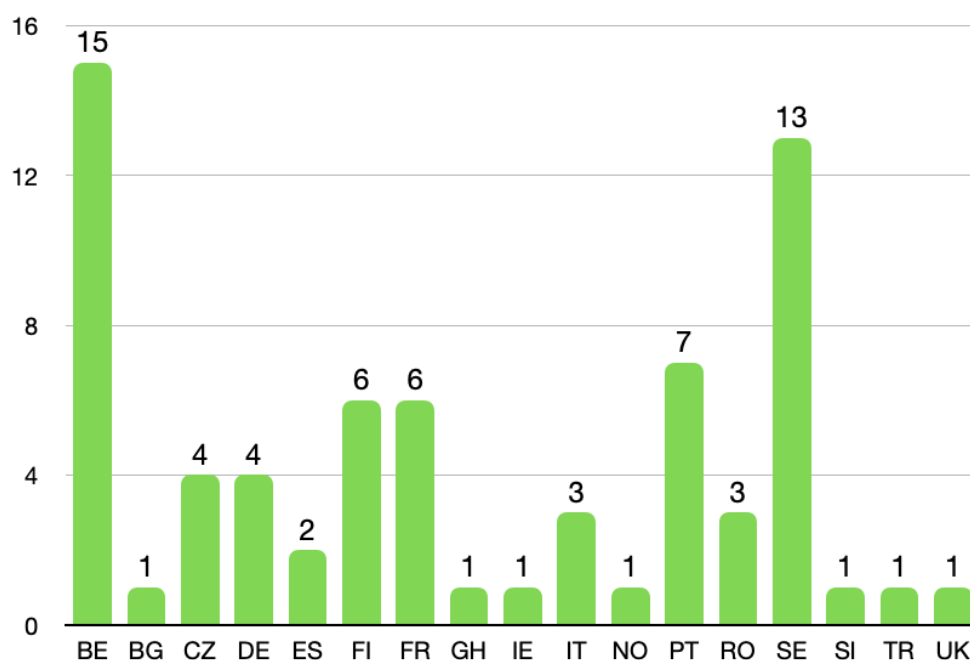


5.3.29. ALBATTS Final Conference

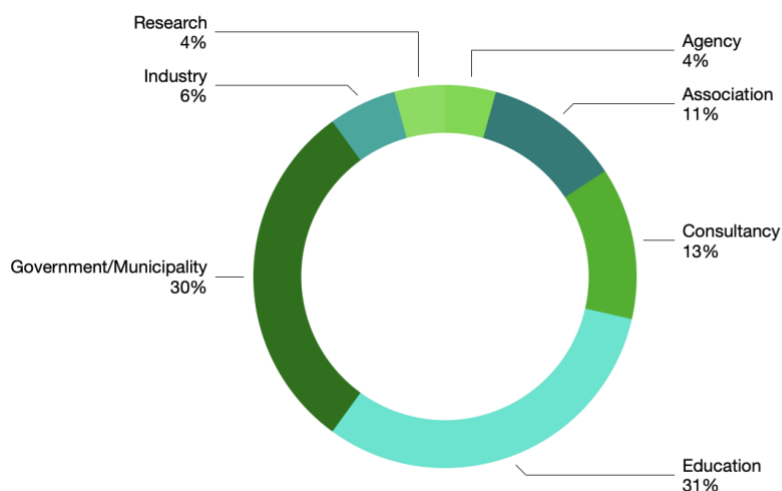


This was an in-person event that was held in Brussels (European quarter) on 09/04/2024. Its recording can be viewed [here](#).

REGISTRATIONS: Registration requests came from **17 countries (4 from outside the EU)**, as shown in the graphic below.



6% of registrations were from the industry sector and 31% were from the education sector. Other registrations were from the sectors in the visual representation provided below.



OTHER INSIGHTS

Registrations	Attendees	Event timeframe
70	60	From 08:30 to 17:00

Conference views since made available through the ALBATTTS website: 29

The ALBATTTS final conference marked a significant culmination of years of dedicated work and collaboration, which was also recognised by Commissioner Nicolas Schmit in the conference opening statement.

Bringing together [key stakeholders, policymakers, industry experts, researchers, and representatives from other EU funded projects](#), the event served as a platform to showcase the project's achievements, findings, and contributions to its respective field. With engaging presentations, panel discussions, and interactive sessions, attendees gained valuable insights into the project's outcomes and their implications for policy, education and industry practices, and future directions.

Additionally, the conference served as a forum for networking and knowledge exchange among participants, fostering synergies with other ongoing projects and initiatives coming from countries such as France, Belgium, Germany and Italy. The diverse audience, including

policy officers of the European Commission, stakeholders from academia, government agencies, regions representatives, education developers and industry associations, underscored the broad-reaching significance of the project's outcomes and its potential to inform policy decisions, drive innovation, and shape the future landscape of skills and competencies in the batteries sector.



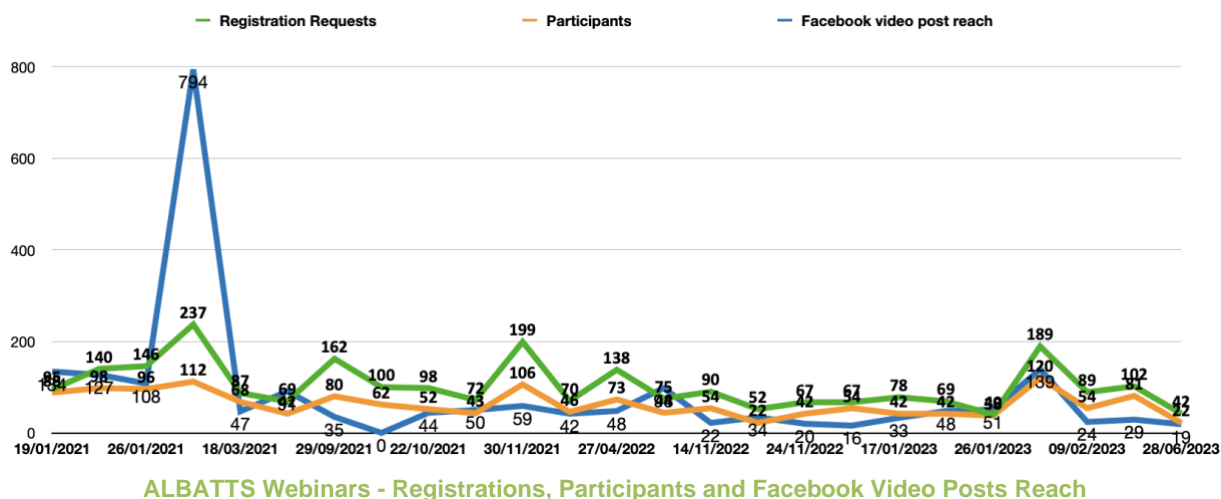
ALBATTS Final Conference Opening and First Panel

5.4. Monitoring the online events

5.4.1. Registrations and Participants

The ALBATTs events wielded significant influence on the project's recognition, facilitating the expansion of partnerships and the dissemination of key achievements. They underscored a substantial boost to the project's sustainability.

A total of 2.664 people registered for the ALBATTs webinars. 1.630 individuals attended the events through Webex and another 2.112 were reached through the corresponding Facebook video posts.



The education and the industry sector together corresponded approximately to 60% of participants during each webinar. Other participants came from associations, consultancies, research institutes, governments and municipalities.



ALBATTs Webinars – Sectors and organisations of participants

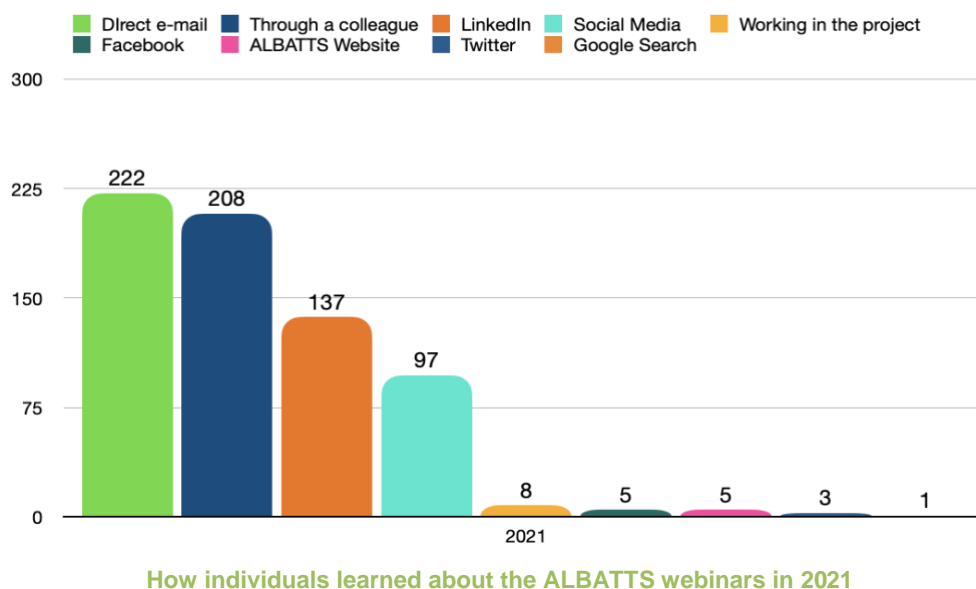
Online events were streamed for a total of approximately 2.045 hours, with an average of 1.623 hours of viewing time by attendees.

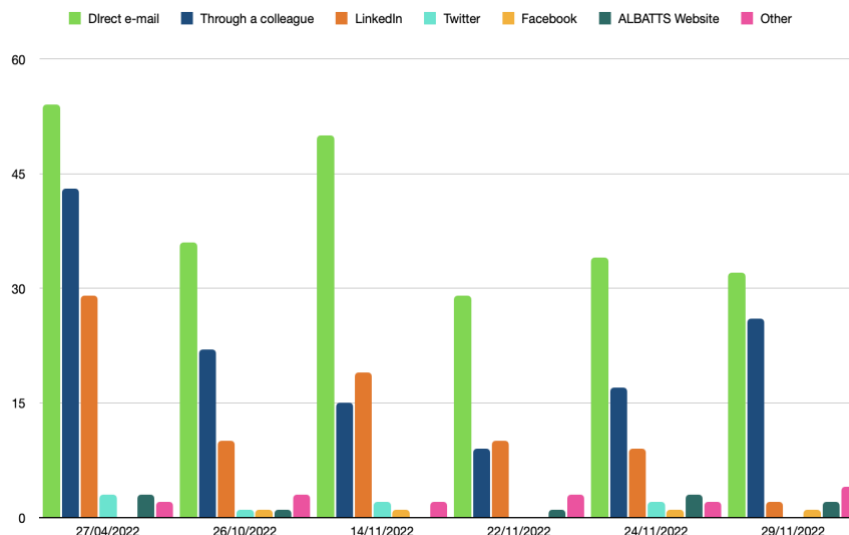
Over 80 speakers graciously accepted invitations to speak at ALBATTs webinars. Additionally, partners from all ALBATTs Work Packages contributed significantly, offering their time and expertise to deliver presentations, conduct interviews, and moderate debates. A list of all speakers and their short biographies is in **Annex 1**.

5.4.2. Source of information for participants

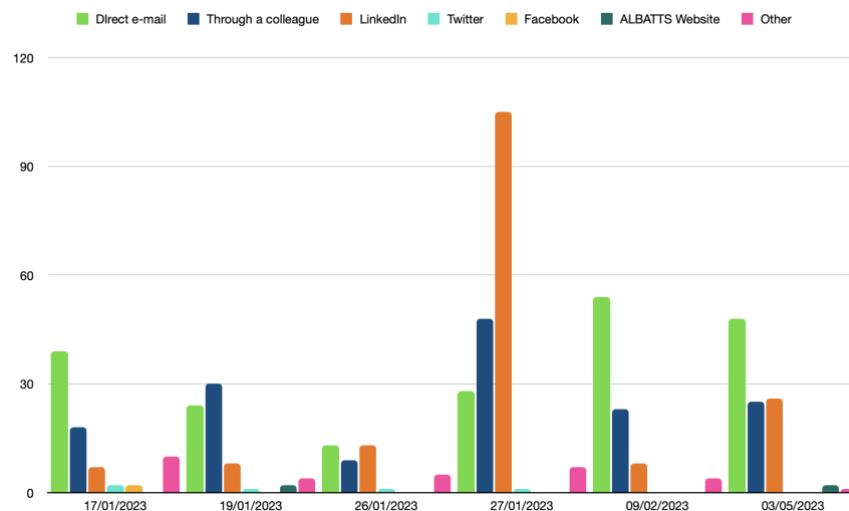
In the registration forms that individuals were asked to fill for the purpose of attending the webinars and the interviews through Webex, they were asked “**How did you learn about this webinar?**”.

The graphics below display the answers for 2021, 2022 and 2023, respectively.





How individuals learned about the ALBATTTS webinars in 2022



How individuals learned about the ALBATTTS webinars in 2023

The graphics reveal that a majority of webinar attendees were informed about the event via direct email. Additionally, a noteworthy portion registered based on recommendations from colleagues, underscoring the respectable reputation of the ALBATTTS webinars. This data features **the efficacy of both direct outreach and word-of-mouth promotion** in driving attendance and highlights the **strong appeal and credibility of the webinars within the batteries' professional community**.

When it comes to social media, our analysis suggests that **LinkedIn emerges as the most effective channel for disseminating information about these events** to a broader audience.

SYNERGIES WITH OTHER EU PROJECTS AND INITIATIVES

The sharing of experiences and synergy building with other initiatives, especially with those in the remit of ALBATTs ecosystem, is in the nature of most of the partners, starting with the project coordination board and leader. The project has developed dialogue with several ongoing projects or initiatives and also engaged with working groups covering energy-mobility-skills.

A first bridge happened expectedly with the **DRIVES** project that, from the inception of ALBATTs proposal, has a coalescence of goals, primary on sectoral skills intelligence, plus on transport and mobility issues. Thus, synergies were naturally created allowing both projects to prepare joint actions such as the event in the context of the EU Regions and Cities Week 2020 (October), and the event during the [EU Industry Days 2021](#) (March).

We've cultivated strong synergies with recognised battery education forums and various EU initiatives and projects. Our journey commenced with **EIT-InnoEnergy** and the **EBA250 Academy Initiative**, entities with whom ALBATTs has deepened cooperation in sectoral intelligence, skills card development, learning material creation, and train-the-trainer solutions. Subsequently, we expanded collaborations with **EIT Manufacturing** and **EIT RawMaterials**, both sharing our commitment to education and training objectives, and eager to engage with ALBATTs. Building on this foundation, we engaged with the **Battery2030+** family of EC projects, focusing on battery cell research, and facilitated the convergence of EIT InnoEnergy and Battery2030+ into an informal "EduBatt" group for information exchange and joint initiatives, exemplified by a public workshop held in July 2021.

In parallel, we participated as experts in a panel/workshop organised by EIT RawMaterials and **Fraunhofer Batterien Allianz** to map the needs of experts for the battery industry, which resulted in a report. We also collaborated with **ECORYS** providing information on the blueprint for a Pact for Skills' study, with **CEDEFOP's** Blueprint projects' results for the [Skills Intelligence page](#) and with a video for the **Year of Skills** festival.

Furthermore, we networked with the R&D [Li-planet](#) project, coordinated by Braunschweig University, which focus is on cooperation between Li-Ion pilot lines in education and training.

Also, within the preparation of events, significant contacts and exchange of information happened with **EIT Urban Mobility**, both within the areas of energy & urban mobility and with their Academy, including by sharing reports where skills and education were highlighted.

ALBATTs also had recurring contacts with **MATES**, the blueprint for the maritime sector, as our coordinator was following their workshop presentation of results, including their sectoral skills strategy. Reciprocally, the MATES consortium has also been following maritime-themed seminars in ALBATTs. Other battery related initiatives also interacted with ALBATTs expressing interest in learning and exploring its results; it is the case of **IPCEI Batteries - Mobility, Energy and Future Technologies**, **KOMBiH** Project in the Battery Forum, from Germany, and the French battery/electromobility projects **École de La Batterie** and **Electromob** from Hauts de France. ALBATTs assisted both these French projects with their national applications for funding, which both were successful.

On the more general European level, ALBATTs has, through its coordinator, participated as expertise in DG Energy's / EIT InnoEnergy's organisation Batteries Europe, Working Group 1, and in this participated actively in Batteries Europe **Task Force for Education** position paper in 2020 and 2021, and also in the integrated work (between the Technology platform for Batteries; **Batteries Europe Partnership Association** and **Batteries Europe**) in writing the new position paper on education (with a new bigger integrated Task Force for Education). Furthermore, throughout the project ALBATTs kept informal contacts with the leading level of the **European Battery Association (EBA)**. The coordinator has also served as an expert in two detailed Delphi-study processes about future green work markets organised by **Cedefop**, one in April and May 2022 and one in May 2024. And ALBATTs has been presented at Cedefop's conference of Greenovation of Skills in 2023.

It is worth mentioning that in the project's newsletter, ALBATTs published interviews covering battery related subjects and skills with members of EIT InnoEnergy and with the Portuguese Secretary of State for Energy during the Portuguese EU Presidency of the Council. Within the interaction with policy actors, ALBATTs was invited to speak at the ***Skills for the green transition for a competitive Europe Conference*** under the Swedish EU presidency, and to

make a presentation at the ***International Observation – Batteries Europe Annual Assembly***.

When making desktop research to produce D6.2, the ALBATTs partners more directly involved with education and training (WP6), had occasional contacts with other sectoral skills blueprints such as the **Next Tourism Generation Alliance**, the **EO4GEO**, the **Skills4Smart** and the **TCLF** projects.

Finally, a pivotal connection was established with the **Automotive Skills Alliance (ASA)** as part of the EU's initiative on the Pact for Skills. This collaboration has notably advanced and strengthened since 2021, with members of both parties committing to the Pact for Skills and the ASA Batteries working group. This commitment is evidenced by the integration of ALBATTs Courses, a significant project output, into the [ASA Learning Platform](#), providing wider accessibility and visibility.

CONCLUSIONS

The ALBATTs communication and dissemination efforts fully achieved the initial strategy goals, despite needing adjustments due to the unexpected impact of COVID-19 at the project's early stage. The primary objective of sharing the key findings of the ALBATTs project at the EU level—providing accurate information on identified skills and job roles, and highlighting the availability of ALBATTs training courses—was successfully met.

The high traffic on the ALBATTs website and the dynamic engagement on the project's social media platforms played a crucial role in this success. Additionally, the good open rates of the newsletters sent over the four years underscore the strong interest in the project's updates.

Furthermore, the 29 events conducted attracting almost 1.700 participants from around the world confirmed the significant interest in the project within the battery ecosystem.

Simultaneously, the ALBATTs project has fostered extensive collaboration and synergy-building within its ecosystem and beyond. From its inception, the project has engaged with various initiatives and projects, and actively contributed to knowledge sharing and dissemination through publications, interviews, and presentations at conferences and assemblies.

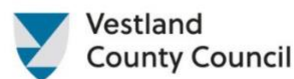
The figures and facts demonstrate effective outreach and engagement with the targeted audiences. The positive response reflects the relevance and importance of the project findings, as well as the successful mobilisation of stakeholders within the battery value chain.

ALBATTS CONSORTIUM AND STEERING BOARD

COORDINATOR



FULL MEMBERS
















STEERING BOARD







ANNEX 1- SPEAKERS IN ALBATTS WEBINARS AND INTERVIEWS




Invited experts and their biographies at the time of the webinar





	<p>Lars Ole Valøen is CTO at Corvus Energy, a leading supplier of batteries and energy storage solutions for the global maritime industry. Lars Ole is a Doctor Engineering in Electrochemistry with more than 25 years of experience within the field.</p>
	<p>Stian Ramm Manger is the Technical Product Manager of Energy Storage at Kongsberg Maritime. His focus is on energy storage technology, product development and integration of systems board vessels worldwide to deliver environmentally friendly and financially sustainable maritime solutions. He holds a Master of Science degree in Wind Energy with specialization within electro and has been with Kongsberg Maritime for over 7 years.</p>
	<p>Tomas Tengnér is the Global Product Manager Energy Storage at ABB Marine & Ports. He arrived at in ABB Marine & Ports 2017, having previously worked as a scientist in ABB Corporate Research, researching energy storage technologies with focus on Lithium-ion batteries. His research covered aspects from electrical and lifetime modelling and characterization, battery management systems and state estimation, to system integration and integration of energy storage devices with new modular multilevel converter concepts.</p>
	<p>Sverre Eriksen is the Senior Principal Engineer at DNVGL, the #1 class society for the global maritime and offshore industry. Sverre holds a Master degree in Electric Power Engineering from the Norwegian University of Science and Technology (1991). He joined DNV GL in 2008 and has been responsible for developing the DNV GL class rules for battery-powered ships. He also works on approval of electrical installations on ship and offshore units. Before joining DNV GL he worked with power supplies for telecommunication plants and with railway safety systems.</p>
	<p>Caspar Rawles is the Head of Price Assessments at Benchmark Mineral Intelligence London, where he leads a team that collects and assess sensitive market price data on lithium, graphite, cobalt, and nickel for use in industry contracts and negotiations. At Benchmark, Caspar regularly travels to active mines and processing plants in many different countries with a specialist focus on China. He is regularly invited to give market-focused presentations around the world including Canada, China, Australia, and the United States.</p>
	<p>Ivone Kaizeler is the Team Leader for Competitiveness and International matters in the Automotive and Mobility Industries Unit of Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs. She is in charge of the competitiveness of the automotive industry, relations with international partners and the European Battery Alliance. Previously she occupied several functions in the European Commission on Employment and Social Affairs, Industry and Competitiveness and Trade and worked in consultancy for 6 years. She graduated in Engineering from the Faculty of Sciences and Technology of the University of Lisbon, in 1994.</p>

	<p>Vaclav Binar is the Executive Board Chairman and CEO of MAGNA ENERGY STORAGE a.s., a HE3DA li-ion battery technology producer. He has also held several high-responsibility. He has a Master degree in Finance from the University of Economics Prague.</p>
	<p>Katarina Borstedt is Director of Growth at Northvolt. Responsible for the people perspective of Northvolt's growth in Skellefteå. Katarina has a background from management consultant and senior HR roles in the Pulp and Paper industry.</p>
	<p>Mikko Saastamoinen is a shift officer in the rescue department of south karelia (team leader). He has 20 years in fire & rescue services and is the main extrication instructor in rescue department of south Karelia and at the Finnish association of fire officers. He is also the Finnish representer in CTIF commission for extrication & new technology (CTIF is international fire& rescue association which has several different commissions).He was awarded the Firefighter of the Year 2020.</p>
	<p>Karoliina Meurman is working at the Finnish Safety and Chemicals Agency (Tukes) with market surveillance of products meant for early fire detection and extinguishing small fires, for example smoke alarms, CO alarms and first-aid extinguishing equipment. Lithium-ion battery fires have become familiar to Karoliina when estimating the effect of lithium-ion battery fire extinguishers. Karoliina has also expanded her expertise into bigger battery applications and their fire risks. Karoliina is Master of Science in Technology (chemistry) and has worked as a public authority for 15 years.</p>
	<p>Ismael Miranda is currently the manager of the digital energy hub at Efacec, dealing with microgrids and their optimal energy management. He holds a PhD in Electrical and Computer Engineering from the faculty of Engineering of the University of Porto, focused on the integration of Battery Storage in distribution networks of interconnected and islanded power systems. Since 2012 with Efacec, Ismael has performed roles related with R&D, from a researcher in Smart Grids and developing the participation of the company in national and European projects, to leading the R&D department of the Energy Storage division.</p>
	<p>Jussi Havela is the Production Manager at Telia Towers. He has a background in manufacturing industry of electrical equipment. His practical experience at ABB covers positions from designer to department management. Jussi has utilized this knowledge to management of critical facilities operations, First at Coromatic and now at Telia Towers.</p>
	<p>Petr Dolejsi is the Mobility & Sustainable Transport Director at ACEA. He started his career in the public service, leaving the Ministry for Regional Development of the Czech Republic to be Head of Unit to the Permanent Representation in Brussels in 2004. He became member of the Presidency team in 2009 chairing the Competitiveness and Growth working party of the Council. In 2010, he joined ACEA and became a Director for Mobility and Sustainable transport, with a specific focus on CO2 policy, industrial policy, and alternative powertrains. He has graduated Ph.D. in Economics and Social</p>




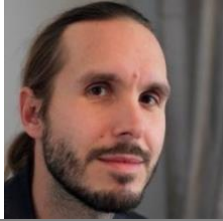


	<p>policy at the University of Economics in Prague, following the Masters' degree in Economics and Regional policy.</p>
	<p>Oliver Fischer is Head of Culture, Talent & Learning at Daimler AG. In this position, he is responsible for Performance Management, Leadership Development and Learning, Culture Transformation, Talent Development, and Diversity & Inclusion at group level. As a psychologist and economist, he studied at the Universities of Cologne and Cambridge, where he earned his PhD as a Gates Scholar. In previous roles, he led the Daimler Corporate Academy as Chief Learning Officer, HR strategy at arvato AG, a subsidiary of Bertelsmann SE & Co. KGaA, and worked as a Fellow in Strategy, Leadership & Change at Saïd Business School, University of Oxford.</p>
	<p>Stanislav Hackl is the E-mobility Systems Lecturer at ŠKODA AUTO Academy. His responsibilities include compulsory training system for electric / hybrid cars, and for high voltage batteries; ESD protection training programme; Car electronics and diagnostics training programme. He holds degrees from the Faculty of Electrical Engineering and the Masaryk Institute of Advanced Studies, at the Czech Technical University and certifications for EV technology specific courses, trainings and workshops (Professional Electrotechnical Qualification; Train the Trainer: HV battery assembly – VW Academy Braunschweig; Work on Live HV-Systems on HV-Vehicles and hazardous lithium-ion batteries - TÜV Rheinland).</p>
	<p>Sara Hermansson is a Talent Attraction Manager at Northvolt AB. Sara has worked at Northvolt since 2017 when it was still a small start-up of 20 people and has been part of the journey up to 1000 employees and producing their first real battery cells, modules and packs. She has worked as Director of customer projects, technical recruiter and talent attraction manager. Today, she is technical project manager for automotive modules. Before Northvolt, she worked at Scania as Head of hybrid and electric powertrain projects and has an M.Sc. degree in industrial engineering from KTH (The Royal Institute of Technology).</p>
	<p>Bernard Lycke is the Director General of CECRA, responsible for CECRA's office in Brussels. His function primarily consists of representing/promoting interests of car dealers and repairers in Europe to EU institutions. He monitors the work of these institutions and develops and maintains high representation with the aim to follow up and influence the decision-makers automotive stakeholders in general, such as its counterpart ACEA (manufacturers), CLEPA (suppliers), FIA (consumers). CECRA is the unique representative of the dealers and repairers in GEAR2030 Group. Prior to that, he was the Secretary General of G.D.A. (Belgian "Groupement des Distributeurs et Agents de Marques Automobiles", member of FEDERAUTO ASBL, Confederation of Automotive Trade and Repair, and Related Sectors). He is a member of the E.D.L. Network (European Distribution Lawyers, an international association of lawyers and representatives of professional federations active in the distribution sector).</p>
	<p>Sjoerd Zijlstra is experienced in Training with a demonstrated history of working in the professional training & coaching industry. Skilled in Hands-on Training, Coaching, Continuous Improvement, Business Development, and Automotive Engineering. He is the Director of Studies and Training Development at EDUCAM Belgium (a knowledge and training centre for the automotive industry).</p>







	<p>Hanna Persson has been working for Volvo Cars for ten years. Her role is Product Owner for Volvo Cars three regional battery centres and she is managing the HV battery roadmap for Volvo Cars Service Business and EPIC's related to batteries. She is also leading and balancing the HW and SW battery requirements for serviceability and battery exchange for all car and battery platforms within Volvo Cars. She is also the technical expert in the method development of battery repair and battery refurbish in the Battery centre. Prior to this she has been leading the Battery 2nd life strategy and pilot project as well as developed refurbish methods for Volvo first generation of PHEV batteries. For this development work she won the Volvo Cars Technology Award in Sustainability in 2020.</p>
	<p>Krzysztof Burda is a co-founder and CEO of the Polish Chamber of E-mobility Development Association. He is a practitioner in the electromobility industry, with a focus on the development of charging infrastructure for electric vehicles. He is a co-creator of the <i>E-mobility now!</i> program, which involves building real electromobility in local government units, through a number of bottom-up activities (including education, infrastructure, promotion, information) aimed at creating appropriate conditions for the development of electromobility that will be future-proof and suitable for a growing market. He has participated in many congresses, conferences, and working groups aimed at developing the right conditions for electromobility in Poland.</p>
	<p>Rafał Biszcz is the Director of the PIRE Knowledge Hub, where he has built an organization focused on acquiring and systematizing the technical knowledge concerning all aspects of electromobility. Rafał started his electromobility journey in 2018, when he had built the Defect Engineering team in the newly constructed LG battery plant in Wrocław. He also has over 100 hours consulting experience within various projects connected with electromobility – mainly within the scope of the batteries.</p>
	<p>Daniel Brown is the manager of the Lucas-Nülle Academy (Germany) and is an automotive industry and training and assessment expert with over 20 years' experience spanning across two continents. Founding manager of the completely new LN Academy and responsible for its conception and strategy, he developed the world's first hybrid or electric vehicle skill station currently being used at Worldskills international (Kazan), SkillsUSA and Worldskills Germany. Also, he developed the curriculum used in US automotive programs to cover the ASE L3 certification for hybrid and electric vehicle technician certification. He specialises in electric and hybrid vehicle training for various countries, the different training standards used, and building strategic partnerships for Lucas-Nülle with education partners and certificate awarding organisations from around the world.</p>
	<p>Claudia Gamon is an Austrian politician known for her dedication to progressive values and tireless advocacy for youth empowerment and liberal policies. She is a Member of the European Parliament since 2019, where she is full member of the Committee on Industry Research and Energy, and Vice-Chair of the Delegation for Northern cooperation and for relations with Switzerland and Norway and to the EU-Iceland Joint Parliamentary Committee and the European Economic Area (EEA) Joint Parliamentary Committee.</p>




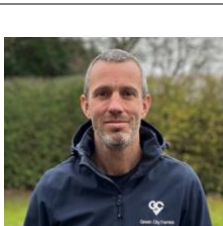
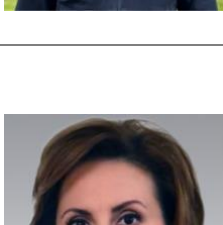
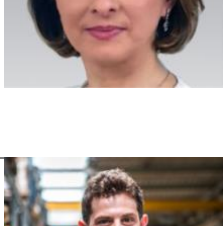
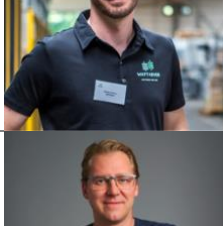

	<p>Duarte Conde Silva is Plant Manager at Graciolica Renewable Hybrid Power Palant in the Azores, Portugal. He has a Master of Engineering - Electronic Engineering – Electric Power Systems from Instituto Superior de Engenharia do Porto. Previous to joining Graciolica, he was an Assistant Site Engineer at DTE</p>
	<p>Rene Schroder works as Executive Director for EUROBAT, the automotive and industrial battery manufacturers association. He previously worked at a European federation in the waste industry and held internships at the European Parliament and Commission, as well as at CEFIC the chemicals industry association. Rene has a Postgraduate Master in European studies from the College of Europe, in Natolin, Warsaw, Poland and a Master in Political Science from the University of Rostock, Germany.</p>
	<p>Elena Wrelton is the Environmental Compliance Manager at ELVES (ELV Environmental Services CLG) the compliance scheme for End-of-Life Vehicles. Prior to joining ELVES, she worked for a number of years at the Ministry of Environment in New Zealand on a range of waste and resource management issues including the operation of waste policy (waste disposal levy, voluntary and mandatory product stewardship, waste advisory board), the implementation of a nationwide take back scheme for televisions, and funding for waste and environmental projects. She recently completed an MBA in Innovation, Enterprise and the Circular Economy through Bradford University School of Management.</p>
	<p>Amélie Sophie Salau is a political scientist by education. She joined ACEA in August 2020 as Environmental Policy Director. She is on a secondment for Volkswagen. She worked over 15 years for the Volkswagen group in different areas.</p>
<p>NOT AVAILABLE</p>	<p>Vegard Evjen Hovstein is Founder & CEO at Maritime Robotics. He holds a M.Sc. Degree in Control Engineering and Flight Control Systems from the Norwegian University for Technology and Science. He founded Maritime Robotics back in 2005, that is 16 years in unmanned & autonomous vessels for the Maritime industry. Their systems operate unmanned both in the air and on the surface. Products allow for collection of data ranging from aerial to subsea. Vegard is a true autonomous pioneer.</p>
<p>NOT AVAILABLE</p>	<p>Jørgen Drønnen is the Chief Sales Officer at Offshore Simulator Centre in Aalesund, Norway. Jørgen has a Bachelor with First Class Honor's Degree in Product Design from Teesside University, UK. Furthermore 2 single years of Computer Science Studies and a single year study of International Marketing. Jørgen has over 13 years of experience in understanding simulated environments and processes and along the way Creating World class simulator design. He has been at the Offshore Simulator Centre for more than 10 years.</p>
<p>NOT AVAILABLE</p>	<p>Pia Meling is Vice President of Massterly (a Kongsberg Wilhelmsen joint venture). Massterly is the world's first company set up to operate zero emission, autonomous vessels. Their aim is to enable a shift in transport from road to sea; through cost-effective, safe, and environmentally friendly logistics. Pia has broad management experience from shipping and the maritime industry. She serves on the Boards of TECO 2030 ASA, Dolittle AS and Westport AS and she is a member of the Ocean portfolio board in The</p>







	Research Council of Norway. Meling holds an MBA from the Norwegian School of Economics.
NOT AVAILABLE	Christian Hovden is an Assistant Professor at the University of South-Eastern Norway. He holds a Master's degree in Process Control. He is the Automation Discipline Lead at the University, specialising in Electrical Power, Automation and Robotics. He is also the Project Manager for Markom2020 on Shore Control Centres and Operator Competence, and likewise the Project Manager for the Autonomous Sea drones' project.
NOT AVAILABLE	Margareta Lützhöft is a Professor in the Maritime Safety Research Program at the Western Norway University of Applied Sciences. She holds a MSc in Computer Science from the University of Skövde, and a PhD in Human-Machine Interaction from the Linköping University, Sweden. The MarSafe program includes projects like Safety management and autonomy in the maritime sector, IT education for seafarers, and the human element in autonomous shipping.
	Stewart McKinlay is graduated with a Masters in Manufacturing Sciences and Engineering from the University of Strathclyde, before moving to Aberdeen to start a manufacturing plant making Helium Speech Unscramblers. Later he worked for the Sector Skills Council in Scotland responsible for the Engineering Modern Apprenticeship framework, growing the number of new starts from 850 to 1500 per year before moving to the University of Strathclyde's Engineering Academy. Previously as Chair of the Scottish Association for Engineering Education, he selected the first female Chair and led the executive committee in reaching 50/50 gender balance. Stewart currently sits on the Steering Board of Equate Scotland, the SDS Engineering Skills Leadership Group, and the Transport Scotland HGV Decarbonisations Skills Work stream.
	Gerardo Herrera is working as a Policy Officer in the Energy Intensive Industries and Raw materials unit at the Directorate General Internal market, Industry, Entrepreneurship and SMEs in the European Commission. In DG GROW he is acting as a Seconded National Expert from Spain, where he is research professor at the Geological Survey of Spain. In DG GROW he is part of the raw materials team working on data analytics, earth observation and international partnerships with Latin America.
	Patrice Christmann , PhD, MBA, is a self-employed researcher and consultant, specialised in minerals and metals and related issues (sustainability, policies, governance, economics, research, technologies ...). He retired from BRGM, the French Geological Survey, in 2016, after a 40-year long career. He also was a member of the UN International Resource Panel (2011-2020, resourcepanel.org). He currently teaches on minerals, metals; the energy Transition and Sustainable Development at EPF, a French Engineering School.
	Asko Saastamoinen works for Keliber Oy as the Chief Human Resources Officer. He is a M.Sc. in Civil Engineering, having years of experience in different fields of HR and Safety in chemical and process industries as well as mining. His work is both on strategic level on planning and leading people activities as well as on practical level in recruiting, managing and developing employees for Keliber, aiming to be the first company in Europe producing Lithium from own ore resources.








	<p>Blandine Gourcerol currently works at the French Geological Survey (BRGM) as a researcher on ore deposit geology. Her research aims to characterize a variety of magmatic and hydrothermal ore systems using both traditional and novel approaches. Her work incorporates field studies supported by a large range of petrologic and mineral-fluid chemical studies (e.g., lithogeochemistry, fluid inclusions) using analytical facilities at the BRGM and collaborating institutions</p>
	<p>Carlos Nogueira is a researcher at LNEG and Head of the Materials for Energy R&D Unit. Its main expertise is in extractive metallurgy and recycling of end-of-life products, namely in the development and optimization of extractive processes by hydrometallurgy. Has an also scientific interest in the field of energy storage. Has been participating in national and international research projects and has many publications in scientific journals. Lithium has been one of the core topics of its activities in recent years.</p>
	<p>Nathália Cristine Viecei works at the Chalmers University department of Chemistry and Chemical Engineering, Industrial Materials Recycling Unit. Nathália researches lithium recovery from spent Li-ion batteries by hydrometallurgical processes. Her interests in recycling include optimization of processes to recover critical raw materials from secondary resources. Nathália also has experience on lithium recovery from natural resources.</p>
	<p>Léa Rouquette works at the Chalmers University department of Chemistry and Chemical Engineering, Industrial Materials Recycling Unit. Léa's PhD project is focused on lithium-ion batteries recycling. The goal is to recover valuable metals from the spent batteries.</p>
	<p>Tomáš KAZDA works as an associate professor at the Department of Electrical and Electronic Technology, Brno University of Technology. He finished his Ph.D. in 2015 in the field of electrodes for lithium-ion accumulators. In the year 2014, he received the FEI and CSMS (Czechoslovak Microscopic Society) Grant for Young Scientists. He is an investigator or co-investigator of several Czech and foreign battery projects. He participated in several internships abroad (Vienna – Austria, Padova – Italy, Barcelona – Spain, La Plata – Argentina, Braga - Portugal). He has gained knowledge and experience in the fields of electrochemical measurements, synthesis of electrode materials for positive electrodes of Li-Ion batteries, and post-lithium systems. It also works with industry in the application of Li-ion batteries and advanced battery systems, including their recycling. Since 2017 he is a member of the Committee for Sustainable Energy and Sustainable Transport of the Government Council of the Czech Republic. Since 2019 is a Vice-Chairman of the international conference Advanced Batteries, Accumulators and Fuel Cells. Since 2022 is a Chairman of the Czech Battery Cluster.</p>
	<p>Noshin OMAR obtained his M.S. degree in Electronics and Mechanics from Erasmus University College Brussels. He obtained his Ph.D. in 2012 in rechargeable energy storage systems from the department of Electrical Engineering and Energy Technology ETEC, Vrije Universiteit Brussel. He is the formal Director of the Battery Innovation Center of VUB. Currently, he is working as an associate professor at Mondragon University and he is the founder and CEO of Avesta Battery & Energy Engineering (ABEE), which is</p>







	<p>focusing on batteries and energy technologies. He is the author of more than 140 scientific publications.</p>
	<p>Ylva OLOFSSON has a MSc in Mechanical Engineering from Chalmers University of Technology, Gothenburg, Sweden.</p> <p>She started working at the Volvo Group in 2013 as a Research Engineer in Electromobility Sub-Systems. Later, she also worked as laboratory manager and project manager within Propulsion Technology, and as project manager for Viva energy systems within Volvo Buses. She is project manager within Electromobility since 2018.</p>
	<p>Jorge Pinto is Team Leader at VG CoLAB (Porto, Portugal) in the field of power electronics and energy management. During his PhD, he researched and developed control methods integrating battery management functionalities in decentralised power-sharing of parallel connected power converters in island microgrids. He is currently responsible for projects related to the development of innovative hybrid-battery packs and respective power converters MVPs to ensure microgrid energy security and extend battery lifespan.</p>
	<p>Josef Tichanek is CEO of Olife Corporation a.s. in the Czech Republic, a company that is developing a lithium car starting battery. He was also responsible for technical development of Olife battery. Prior to joining the company, Josef worked in consulting - Deloitte and PwC, where he was focusing on credit risk management and enterprise risk management. He studied at Technical University in Ostrava - VSB.</p>
	<p>Mika Kauppila is Senior Electrical Engineering Manager at Valmet Automotive. He is currently working with batteries for automotive OEMs and off-highway applications. He has over 15 years of experience on power management, including power electronics, stationary storage systems and electrical vehicles.</p>
	<p>Fredrik ELIESON is Responsible Competence Transformation & Senior Project Manager at Volvo Group Operations. With more than 20 years of experience from different leading positions in industrial- and digitally-based start-up organisations in the automotive industry by establishing new organisations into stable and profitable business operations in a global environment. Fredrik is supporting the organisational competence readiness for the future by enabling access to valuable and individualised competence solutions and government funding to support the transformation journey. Since 2014, he has worked with the competence development of employees and organisations through building-up Volvo Group University. He is leading several competence transformation initiatives to secure the readiness and financial funding for the ongoing technology shift in the automotive manufacturing industry. Additionally, Fredrik has experience from several leading positions in building up industrial and technology start-ups plus leading positions in the financial areas being CFO and investment director in the venture capital profession.</p>
	<p>Markus DÖHN is a Senior Expert Electromobility at the Deutsche Post DHL Group, where he started working in 2008. Previously to that, he had been working for four years at the Deutsche Post as a Consultant. He studied at the Europäische Hochschulen, where he got his diploma.</p>

	<p>Jan VEJBOR is EVC Group Head of Sales and member of board of the Czech Battery Cluster. In more than 15 years in e-mobility and RSE market, Jan specialises in sales of traction battery systems for personal and heavy-duty vehicles, the scope being recently widened by home and industry ESS portfolio. Being in contact with li-ion cell producers and with cell recycling companies, Jan focuses on the overall picture of the li-ion battery life-cycle.</p>
	<p>Michael WOLF is R&D project manager zero emission vehicles at Daimler Truck AG and, after many years of experience in developing heavy duty trucks and light vans at Daimler Trucks, he is fully inspired to be part of the transformation in the commercial vehicle industry. As a technical project manager of the Mercedes Benz eActros long-haul, he is facing all aspects of challenges regarding technology, organisation and volatile market environments. Michael believes in the future of zero emission transportation and supports the Paris climate goals.</p>
	<p>Daniel Cios got interested in raw materials markets and policy during his studies in European affairs in 2010. In his research, he took up topic on how the EU could ensure supplies of rare earths. At that time, he did not expect that this academic interest would continue in his future professional career. First, by being a consultant on issues related to supplies of raw materials and performing economic and technological analysis of various innovative projects that gave him an understanding of the industry. Later on, in the European Commission, which he joined in 2018. He is currently in the unit for Energy Intensive Industries and Raw Materials in the Directorate General for Internal Market, Industry, Entrepreneurship and SMEs. His main responsibilities are EU activities on raw materials, particularly for batteries, and the EU Horizon Europe framework programme on R&I in the area of raw materials.</p>
	<p>Michal Illich is the founder of the startup Zuri, which develops an aircraft with a vertical start ability and a range of hundreds of kilometers. He previously founded and led a Czech search engine Jyxo and the Blog.cz service. He is the owner of WebExpo and Devel.cz conferences and, together with colleagues, he founded the Testomato and the startup accelerator StartupYard.</p>
	<p>Tobias Kahnert is the founder and CEO of Electric Flytrain and Electric Power Lead for Silicone Valley startup Impossible Aerospace. Previously, he was Senior Development Engineer and Project Lead at Tesla. Tobias holds a Bachelor in Electric Mobility from Munich University of Applied Sciences and a Master in Engineering for Sustainable Development from Oxford University.</p>
	<p>Dagfinn HUSJORD is educated from the Norwegian University of Science and Technology. In addition to his maritime experience as deck officer, he has 18 years of experience as a lecturer in nautical science. He represents Vestland County in Norway for ALBATTs work package for Training.</p>

	<p>Chris KORNET is CEO of Concordia Damen Shipbuilding, a Dutch company with a long track record in innovative ship design and shipbuilding. Using his more than 30 years of industry experience, Chris aims to efficiently build vessels with a sustainable and economic profile with high quality. He sees changes coming and understands what they mean. As a result, Concordia Damen is able to process transition quickly and effectively in its service to the industry.</p>
	<p>Michiel SMIT is a Business Developer with Zero Emission Services, a Dutch company leading a system change by powering clean inland shipping corridors using swappable modular energy containers and docking infrastructure. Michiel holds a Master's degree Offshore Engineering from Delft University of Technology and with over 5 years of experience in engineering and operations he's highly driven in contributing to the shipping industry energy transition.</p>
	<p>Josefin KLINDT is Sales Account Manager for EST-Floattech in Germany. EST-Floattech is a fast-growing supplier of maritime energy storage solutions, determined to make tomorrow's shipping more sustainable. Josefin holds a shipping degree from HBT business school in Hamburg and has more than 10 years of industry experience from working for different shipping companies and as team lead for a battery manufacturer supplying to multiple industries ashore.</p>
	<p>Fredrik THORNELL is founder and Executive Director of the Swedish company Green City Ferries, a Stockholm based company dedicated to efficient, sustainable waterborne mobility. GCF delivers innovative, energy-efficient, and emission-free high-speed ferries with low wake signature for protected inland and coastal waterways. Fredrik holds an Industrial Engineer degree from the Royal Institute of Technology (KTH) in Stockholm and has a background in property development including the creation of a private real estate portfolio in central Brussels.</p>
	<p>Iuliana Chilea is the General Director of the Romanian standardization body (ASRO) since 2017. She has been actively involved in the standardization activity for over 15 years, with active participation in the technical and management structures of CEN and CENELEC – the European standardization organizations, where she was nominated to lead various working groups focused on developing and reshaping the standardization processes.</p>
	<p>As the Romanian delegate to the Committee on Standards of the European Commission she is aware of all the trending activities related to regulations, directives, standardization mandates the EC is developing in order to implement its objectives for the European Market.</p>
	<p>Aimilios Orfanos is an expert in energy flexibility and energy storage. He has 10 years of experience in the industry, where he led the creation of innovative products in energy flexibility in companies like Elia and the Casino group. He is a leading expert in energy storage and demand response in Belgium, and in his role at Elia has led the opening of ancillary services to batteries. He is the founder and CEO of Watt4Ever and ReVolta.</p>
	<p>Jan Born is Co-founder & CTO of Circunomics GmbH, a company dedicated to increasing the efficiency and profitability of reuse and recycling of lithium-ion batteries.</p> <p>Jan has a MSc Computer Science and more than 15 years of experience in digital business and transformation, most recently as CTO & MD of the tech company mediaman.</p>





	<p>He focuses on business value of technology and on the automotive sector.</p> <p>Johannes Rößner is the founder and managing director of BT Advisor UG, which aims to improve the safety of battery handling. He has over 10 years of experience in the battery industry. He worked at TÜV SÜD in Munich in a battery test laboratory with various functions and was in charge of all kinds of battery tests. In the last 7 years, Johannes worked in Japan and China and was involved in the planning, construction, and operation of battery test labs there. In June 2022, he founded BT Advisor UG after returning from Asia.</p>
	<p>Tore Karlsson works as a training coordinator at VUX, which provides adult and higher education in Skelleftea, Sweden. The city has become a growing centre for the European battery industry with the increasing need for battery-skilled employees. Mr. Karlsson's role is to function as a hub between VUX, as an education provider, and the companies in their region. Before his current position, he worked as an automation technician in the manufacturing industry and later as a vocational teacher in the same field.</p>
	<p>Fredrik Hannez is a MSc, Theoretical physics and Chemistry and has 4 years of experience from a reskilling & upskilling project, for 1000+ civil engineers and technical specialists at VCC with focus on Strategy, tactics and operations of a highly successful implementation. He has been Senior Change Manager: 30+ years of engineering, computer system design, development of production and organizations and is currently responsible for Electric Vehicle Technology training at Volvo Cars Company, by Gothenburg Technical College.</p>
	<p>Mikko Saastamoinen is a fire officer in the Rescue department of South Savo, Finland (20-year experience). He is chairman of CTIF Commission for Extrication & New Technology (active member since 2015). CTIF is an international fire & rescue association dealing with alternative propulsion, solar panels, battery fires, drones etc. Some of its important ongoing projects are: Project EuroNCAP and Project ISO17840 (https://ctif.org/commissions-and-groups/iso-17840-first-worldwide-firefighters-standard), which is global and one aim is creating standardised system for the identification of alternative propulsion vehicles. Mikko is an international instructor for road rescue (and for race cars).</p>
	<p>Ola WILLSTRAND works at the department of Fire & Safety at RISE Research Institutes of Sweden. He is project manager and researcher focusing on battery safety. He has experience from several research projects, development projects and from performing laboratory fire tests, from small-scale to full-scale, including several EV fire tests. Currently, he is also a PhD student at Uppsala University focusing on Li-ion battery safety and thermal runaway events. Ola is chair of the organising committee of the International Conference of Fires in Vehicles (FIVE).</p>
	<p>Frank RICHTER is the CEO of Greenectra OÜ. Greenectra is a company based in Estonia, focused on coaching and consulting within the Li-ion battery development industry. Frank obtained his Ph.D. in chemistry from NTNU. His previous experience includes positions within maritime battery development (Siemens in Trondheim/Norway) and automotive battery development (AKKA in Wolfsburg/Germany).</p>







	<p>Richard MESSNARZ has a PhD in Technical Mathematics and Informatics at TU Graz Principal Automotive SPICE Assessor VW-SQIL SW Quality Improvement Lead VDA Certified INTACS Trainer für Provisional und Competent Automotive SPICE Assessor Kurse EuroSPI/ASA Certified Functional Safety Manager/Engineer Trainer EuroSPI/ASA Certified Cybersecurity Manager/Engineer Trainer Trainer Automotive SPICE for Cybersecurity. He has 34 years of industry and university teaching experience ASIL B,C,D experiences as a safety coach and safety assessor e.g. Drive by Wire, Steering, E-Motor, battery, gear box Assessor at ZF, BOSCH, MAGNA, Continental, HELLA, Samsung SDI, Volkswagen, etc. since 27 years.</p>
	<p>Damjan EKERT is Principal Automotive SPICE Assessor with ISCN, VW SQIL – SW Quality Improvement Lead, EUROSPI & ASA Certified Functional Safety Manager Trainer, EUROSPI & ASA Certified Trainer for AQUA (Automotive Quality Engineer) with more than 21 years Automotive industry experience.</p>
	<p>Dimitra Maleka completed a Diploma in Mechanical Engineering and a MSc in Sustainable Energy Engineering. She is currently working as a Energy Transition Skills Expert at EIT InnoEnergy under the InnoEnergy Skills Institute leading the skills intelligence research related to electrification. She is also acting as a Task Leader (previously as Co-chair) in Batteries Europe Task Force on Education & Skills and has been involved with multiple other relevant EU initiatives.</p>
	<p>Martin Karlsson is a university-relations Manager at Northvolt and Adjunct Professor in Complex Systems at the Royal Institute of Technology. Martin has a research background from Luleå University of Technology and 20 years of experience of working in the intersection of academy and industry in research and education triple-helix programs.</p>
	<p>Tomás Adão da Fonseca is a Portuguese Engineer who has worked on EU challenges for climate change and sustainability for the past two decades. Currently leading the efforts of Sustainability and Strategy for Aurora Lithium, a Joint Venture between Swedish battery developer and manufacturer Northvolt and Portugal's energy supplier Galp, Aurora aims to build one of the largest and most sustainable EU Lithium conversion plants at Europe's doorstep accelerating the transition to the EV future.</p>
	<p>Gilles Moreau is the Co-founder and Chief Open Innovation & Sustainability Officer at Vekor. He is a former project manager at the French Alternative Energies and Atomic Energy Commission, known as CEA, where he worked on various Lithium-ion battery projects at national and European level. Previously, he was an expert in fuel cells at 3M and Renault. He is co-founder of Vekor, today in charge of Innovation and Sustainable Development and the initiator of the Battery School project.</p>
	<p>Konrad Bendzuk is a researcher in battery production at EIT InnoEnergy, working towards the implementation of a Digital Product Passport for batteries within the scope of EU-funded projects. Additionally, he supports the InnoEnergy Skills Institute in creating advanced and up-to-date courses for upskilling and reskilling the European Battery industry workforce.</p>




	<p>Miriam Lexman is a Slovak Member of the European Parliament where she sits within the Group of the European People's Party. She is a member of the Foreign Affairs Committee and of the Committee for Employment and Social Affairs. She is a substitute in the subcommittee on Security and Defence, and a member in the EP Delegation for Relations with Belarus as well as the Euronest Political Assembly. Miriam is a co-chair of the Inter-Parliamentary Alliance on China as well as of the EP informal Hong Kong Watch Group, and a member of the COMECE Commission on the EU External Relations.</p>
	<p>Benjamin Denis is Senior Policy Advisor & Head of Industrial Policy Coordination, IndustriALL Europe. He started his career as an Attaché for Climate Policy at the Belgian Federal Public Service for Health, Food Chain Safety and Environment. Three years later, he became an Advisor at the European Trade Union Confederation.</p> <p>In 2019, Benjamin joined IndustriALL Europe, where he is currently a Senior Policy Advisor and Head of Industrial Policy Coordination. At IndustriALL, he deals with Industrial Policy, the Green Deal, Energy policy, Trade policy and Sector Networks. He is also an Invited Professor at the Saint-Louis University, in Brussels.</p>
	<p>Delphine Rudelli is the Director General of Ceemet since 2020. After graduating in law and political science, Delphine began her career in UIMM, the French member of Ceemet, where she advised companies in foreign labour law and European social legislation.</p> <p>In 1999, she joined Ceemet as a social affairs advisor. After nearly eight years in Brussels, Delphine Rudelli returned to Paris as the Head of UIMM's European affairs department where she would eventually become the Director of the European and International affairs Department.</p>
	<p>Martin Hutereau is a post-doctoral researcher in the group of Professor Yoann Olivier at the University of Namur.</p> <p>He is currently involved in the BatFactory project – a joint effort with other universities and research institutes in the Walloon region of Belgium to develop state-of-the-art batteries using more environmentally-friendly resources and processes. His work within this scope involves the computational screening and modelling of new candidate materials together with experimental partners in order to optimise the underlying chemistry and minimise the environmental costs of these batteries.</p>
	<p>Emmanuelle Leroy is Director of Attractiveness and Employment at the <i>Communauté Urbaine de Dunkerque</i>. She has been involved for over 10 years in the urban and industrial transformation of this area of French maritime Flanders. Since 2019, Emmanuelle has been contributing to the transformation of Dunkirk's industry, based on decarbonisation and reindustrialisation, putting skills, employment, training and education at the heart of the approach, with a collective of many public and private partners.</p>
	<p>Jarno Pöntinen has a background of working in the education management industry. Currently, he is Chief Technologist at the Finnish National Agency for Education, where his main tasks are related to 1) Reform and development of vocational qualifications in vocational education and training (for example Mechanical Engineering and Production Technology and Wood industry) and 2) Development cooperation with Finland's Technology industry federation and Chemical industry federation in vocational education. Jarno is also a member of the renewable energy and solutions group in the agency.</p>

	<p>Christine Schmidt is CEO at Institut für Betriebliche Bildungsforschung IBBF. Her professional journey began as an assistant manager at Agrargenossenschaft Flämingland e.G.. Later on, Christine ventured into self-employment as a project developer, manager, and lecturer in the field of education for sustainable development. Collaborating with partners in research and public administration, she successfully implemented an independent educational series in 150 schools in Berlin-Brandenburg for all age groups. In 2014, Christine started working as a project manager at the Institute for Corporate Education Research IBBF, where she a few years later became CEO, and where she continues to make significant contributions to the field of corporate educational research.</p>
	<p>Felix Rohn became a civil servant in the European Commission in 1998. He worked in the policy fields enterprise, higher education, vocational education & training before he changed to skills and qualifications. Today in charge of the <i>Blueprint for sectoral cooperation on skills</i> and working in the <i>Pact for Skills</i> team, he is the interface between his skills and qualifications unit in DG Employment and sectoral units in other DGs in the Commission.</p>

Moderators, interviewers and ALBATTs project presenters

	<p>Kristin Bruun Ludvigsen is a Principal Engineer at DNVGL. She has a PhD in Marine Technology with focus on modelling and simulation of hybrid propulsion systems. Throughout her career she has worked with research and innovation projects as well as approval and advisory services related to power and control systems for the maritime industry.</p>
	<p>Kari Valkama is a project manager at Technology Centre Merinova in Vaasa, Finland. Merinova is the leader of the EnergyVaasa Cluster that possesses the Gold Label of Cluster Management Excellence. Its cutting-edge expertise is in energy technology and business development. Merinova is involved in various projects, programs and services regionally, nationally and globally. Kari holds a degree in Business Administration. He has years of experience in working with business and general development related tasks in SME companies in metal and cleantech industries.</p>
	<p>Björn Fagerström (PhD) is Director at EIT Manufacturing North. Experienced and dedicated professional with +30 years of work experience and +20 years of management experience, including +15 years of academic experience. Practise from a broad range of industries, such as O&G, Energy, Pulp & Paper, Automotive, Logistics, Education, Consumer Products, etc. Björn has had several roles, such as CEO, Project Manager/Director, R&D Director, Product Development Manager, Production Manager, etc. In addition, Björn has also been professor at Mälardalen University in Sweden for 15 years (part time), focused on R&D and Manufacturing.</p>
	<p>Anders Norberg is the coordinator of the ALBATTs project, and works as an education strategist for the municipality of Skellefteå, the town in Northern Sweden where the Northvolt cell factory is being built. Anders is a former philosophy teacher, but has worked with education development questions for many years in Northern Sweden, in EC projects and in research.</p>

	<p>Johan Söderbom has been active in the energy sector for 25 years mainly working with R&D for the electricity system. Between 1995 and 2014 Johan worked at Vattenfall AB in various positions in R&D. From 2014 to 2019 Johan was heading a section at RISE (Research Institutes of Sweden) responsible electrical and optical measurement technology and he now holds the position of thematic leader for Smart Grids and Energy Storage.</p>
	<p>Laurence LAMM is the Senior Advisor for Processing at EIT RawMaterials (European Institute of Innovation and Technology). She is responsible of the coordination of the Processing and Recycling activities and participates in several Advisory Boards.</p> <p>She is also part of several Erasmus+ projects on Blueprint for sectorial skills projects.</p> <p>She holds a PhD in Material Science and an Engineer Degree in Metallurgy and has 30 years of experience in the Steel and Automotive Industry.</p>
	<p>James Copping is a Policy Officer at DG GROW, European Commission, working in Automotive Unit, coordinating the Commission's policy on electro-mobility and, in particular, on supporting the work of the European Battery Alliance. This included contributing to the drafting of the Commission's Strategic Action Plan for Batteries and to the recent Sustainable and Smart Mobility Strategy. Within these responsibilities, he is working on a number of EU skill-related projects including ALBATTs. He joined the European Commission in 2001 and has worked in different units within the Directorate General responsible for industrial policy.</p>
	<p>Jakub Stolf is the program manager and academic staff member at VSB – Technical University of Ostrava, where he has also received his Ph.D. He is responsible for the skills agenda in the Automotive ecosystem. He coordinates the DRIVES project, a Blueprint for the Automotive sector, and is a WP leader in the ALBATTs project. His recent activities focus on a sustainable and pragmatic approach towards the skills agenda in Automotive Ecosystem, establishing the Automotive Sector Skills Alliance, as Pact for Skills in Automotive Ecosystem. He has experience in project/program management, development of training and educational programs, technical background in Informatics and Mechatronics in the Automotive ecosystem.</p>
	<p>Helena BRAGA is an Associate Professor at the Engineering Physics Department of University of Porto. She is a member of the Materials for Energy Research Group (MatER) in Porto. Helena has been dedicating her scientific career to researching innovative and sustainable battery materials and technologies and is well recognised by the scientific community. She is also a senior research fellow in the Materials Institute headed by the Nobel laureate in chemistry, John Goodenough.</p>
	<p>Jakub GAJDUSEK has been an active member of the ALBATTs project in two working groups focusing on Stationary energy storage and Mobile battery applications. His expertise comes from being a project manager for a battery start-up company HE3DA since 2017. The company is also an early member of the European Battery Alliance where Jakub attended many workshops and networking experiences. Jakub also joined a 1-year study exchange program at U.S. high school and followed his English studies at the Anglo-American University in Prague until his 2019 bachelor's graduation.</p>

	<p>Thomas FABIAN joined the European Automobile Manufacturers' Association (ACEA) as Commercial Vehicle Director in November 2018. ACEA represents the EU's seven major truck producers.</p> <p>In previous roles, Thomas served as: Head of the Department Commercial Vehicles, Trailers, Bodies and Buses of the German Association of the Automotive Industry (VDA); Secretary General of the International Association of the Body and Trailer Building Industry (CLCCR); Director Transport Policy for the German Airports Association (ADV); and Senior Manager Transport Policy for the Federation of German Industries (BDI). Before that, he worked as Scientific Advisor to a member of the German Parliament.</p> <p>Thomas holds a degree in transport engineering of the Technical University of Berlin and has been working on international transport policy projects ever since graduating in 2000.</p>
	<p>Lukáš FOLBRECHT has been leading ALBATTs project Work Package 5 – Intelligence in Mobile Battery Applications, which has been analysing the use of battery technologies and relevant job roles and skills in moving devices, such as electric passenger cars, buses, trucks, but also motorcycles, aerospace, trains and city micromobility devices across their whole value chain. His previous experience includes positions in SKODA AUTO, the Office of the Government of the Czech Republic and the media, as well as work and study experience in the US, the UK and Brussels. Lukas is also a secretary of the Czech E-mobility Platform and an e-mobility enthusiast.</p>
	<p>Utimia Madaleno is a Senior Consultant at Eupportunity. She works in the field of research, development and innovation through studies and the creation of partnerships of international cooperation in the field of new technologies with applications in the several areas, such as energy. Previously, Utimia worked in industry and EU institutions. She also worked in the Portuguese Representation in Brussels, and as member/leader of various advisory groups for the European Commission. Utimia holds a degree in Materials Engineering from Instituto Superior Técnico and she has a post-graduate degree in metal matrix composites from the Tokyo Institute of Technology. She is a graduate in European Studies at ULB.</p>