



Council of the
European Union

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Brussels, 13 January 2022
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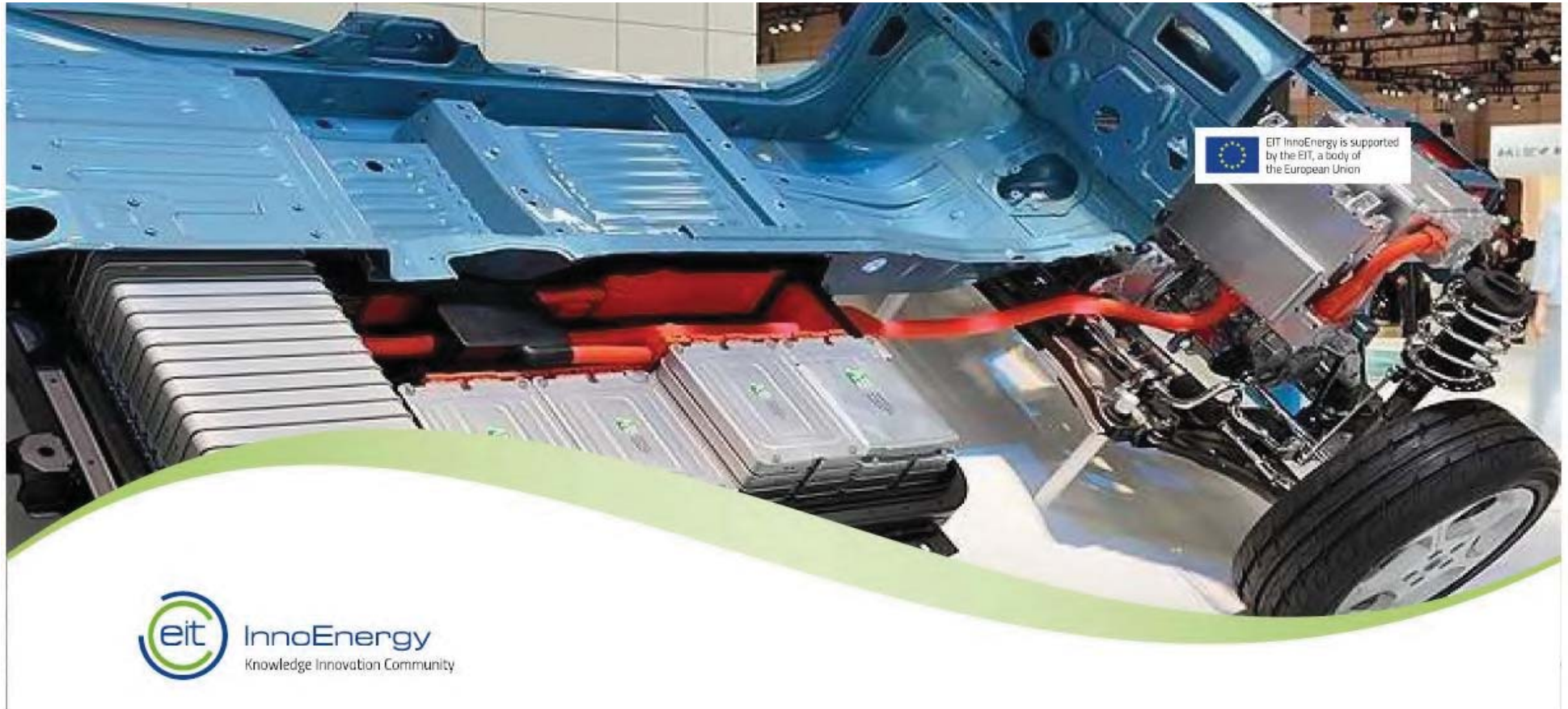
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INTER-REP 3
COMPET 17

COVER NOTE

Subject:	The “European Battery Alliance Academy” initiative- Powerpoint presentation (Compicro (Industry) WP 12.01.2022)
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EBA Battery Academy

The solution for upskilling and re-skilling 800.000 workers, by 2025

A European endeavour

Diego Pavia, CEO - 12th January 2022

European Battery Alliance status @Jan 2022 (1/2)

Industrial projects all across the value chain in 22 countries

1



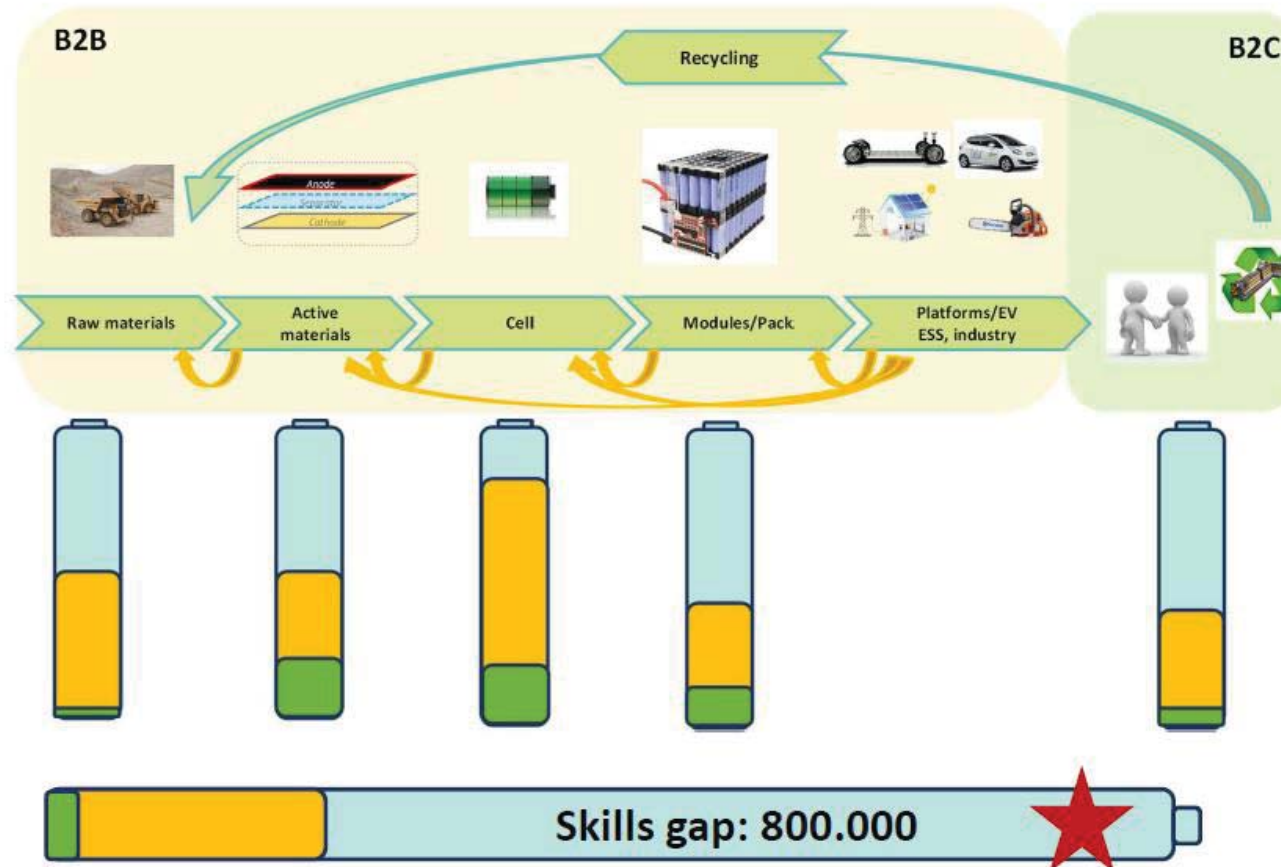
70 Industrial projects all across Europe, creating jobs and growth

European Battery Alliance status @Jan 2022 (2/2)

But still gaps to address ... one being skills

2

Gap between **existing + committed** and **needed capacity** (for 2025)

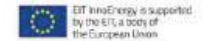


Massif skills gap ... to be filled in no time

Addressing the skills gap: EBA Battery Academy (1/3)

A European strategic endeavour (MS & Com)

3



Maroš ŠEFČOVIČ
Vice-President of the European Commission

Thierry BRETON
Commissioner for Internal Market

Brussels, 12/04/2024

There is also a need to bolster re-/up-skilling efforts to address the critical and imminent skills gap in the battery value chain by rolling out training programmes carried out in cooperation with your industrial and social partners. EIT InnoEnergy stands ready – through its “EBA250 Academy” initiative – to support you in preparing specific re-/up-skilling projects for the chosen segments of the battery value chain.

Given the momentum generated by the NextGenerationEU instrument and the urgent nature of the identified priorities, we invite you, once again, to assess the situation internally in your country, define the necessary investment needs and include eligible battery projects in the national plans under the Recovery and Resilience Facility and the Just Transition Fund, as well as the cohesion

There is also a need to bolster re-/up-skilling efforts to address the critical and imminent skills gap in the battery value chain by rolling out training programmes carried out in cooperation with your industrial and social partners. EIT InnoEnergy stands ready – through its “EBA250 Academy” initiative – to support you in preparing specific re-/up-skilling projects for the chosen segments of the battery value chain.

concerted efforts of industrial actors, have allowed the European Battery Alliance to make remarkable progress over the last three years.

We count on your continued cooperation to address the remaining priorities discussed at the Ministerial meeting, including the adoption of our ambitious Batteries Regulation proposal by 2022 to ensure a level playing field in the market with competition centred around sustainability and circularity. Your support will also be needed to develop sustainable raw materials projects in Member States, which are indispensable for establishing the production of battery materials in the EU and hence increasing the resilience of the EU battery value chain. Our urgent response to the challenges around these materials is critical given fast-growing global demand, tightening supplies and Europe's increasing dependence on imports from third countries.

Yours sincerely,

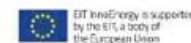
Maroš ŠEFČOVIČ

Thierry BRETON

Addressing the skills gap: EBA Battery Academy (2/3)

InnoEnergy credentials ... already implementing

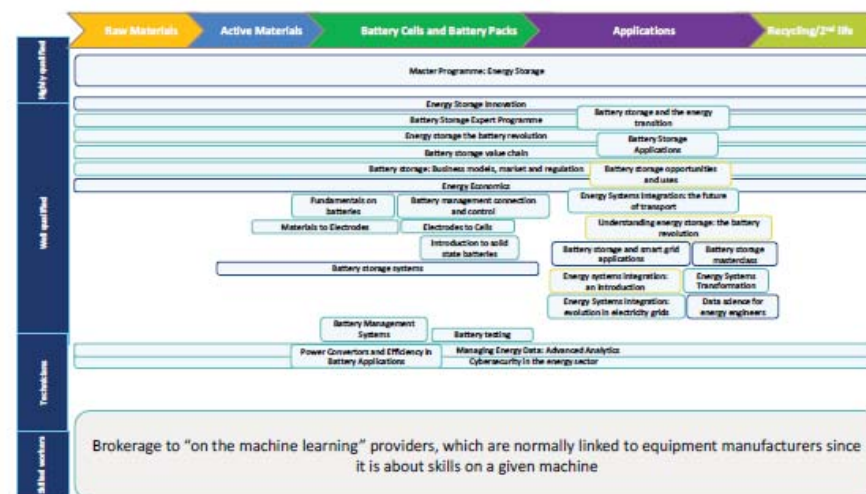
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Based on industry needs 30+ courses developed since 2018



	Raw Materials	Active Materials	Battery Cells and Battery Packs	Applications	Recycling/2 nd life
"White collar"	Electrochemistry Material refinement & purification processes Environmental management	Electrochemistry "Wet chemistry" processes Clean room processing Integrating processes in the environment Material synthesis	Inorganic chemistry Material science polymer composites, nanotech... Electrochemicals and cell design Electromechanical energy storage Power & energy density Energy conversion efficiency Performance testing & optimization Modeling, simulation & design Data science & analytics	Packaging and Safety Battery Testing and Monitoring Data Science Mechanical engineering Battery management systems DC system design Thermodynamic & kinetic properties	EV types & technology Recharging Infrastructure Vehicle to Grid Sustainable mobility Smart grids, off grid systems, smart grids Business models Policy & Regulation Battery banks Business models Policy & Regulation Batteries in trains, Autotrails
Vocational & Professional	Material extraction, refinement Sourcing Logistics Measurement & control Chemical safety, waste handling Environment management (waste water handling)	Chemical processes Physical processes Physical equipment design Measurement & control Chemical safety, waste handling High speed mechanical assembly	Physical processes (lines & dry rooms) Mixing, coating, drying Measurement & control Chemical safety, waste handling High speed mechanical assembly	Electro-mechanical manufacturing Automation Engineering Vehicle technology Power electronics Electrical safety	Electric vehicle fundamentals Operation, diagnosis, and repair Batteries & battery systems Electric motor controllers, inverters Diagnostic tools and equipment Troubleshooting
					Energy (solar/wind, fuel, photovoltaic) Electric vehicle charging Automotive/plant Power electronics Digital skills Electrical safety
					Material extraction, Refinement Chemical/physical processes Logistics Digital skills Chemical/electrical safety Waste handling



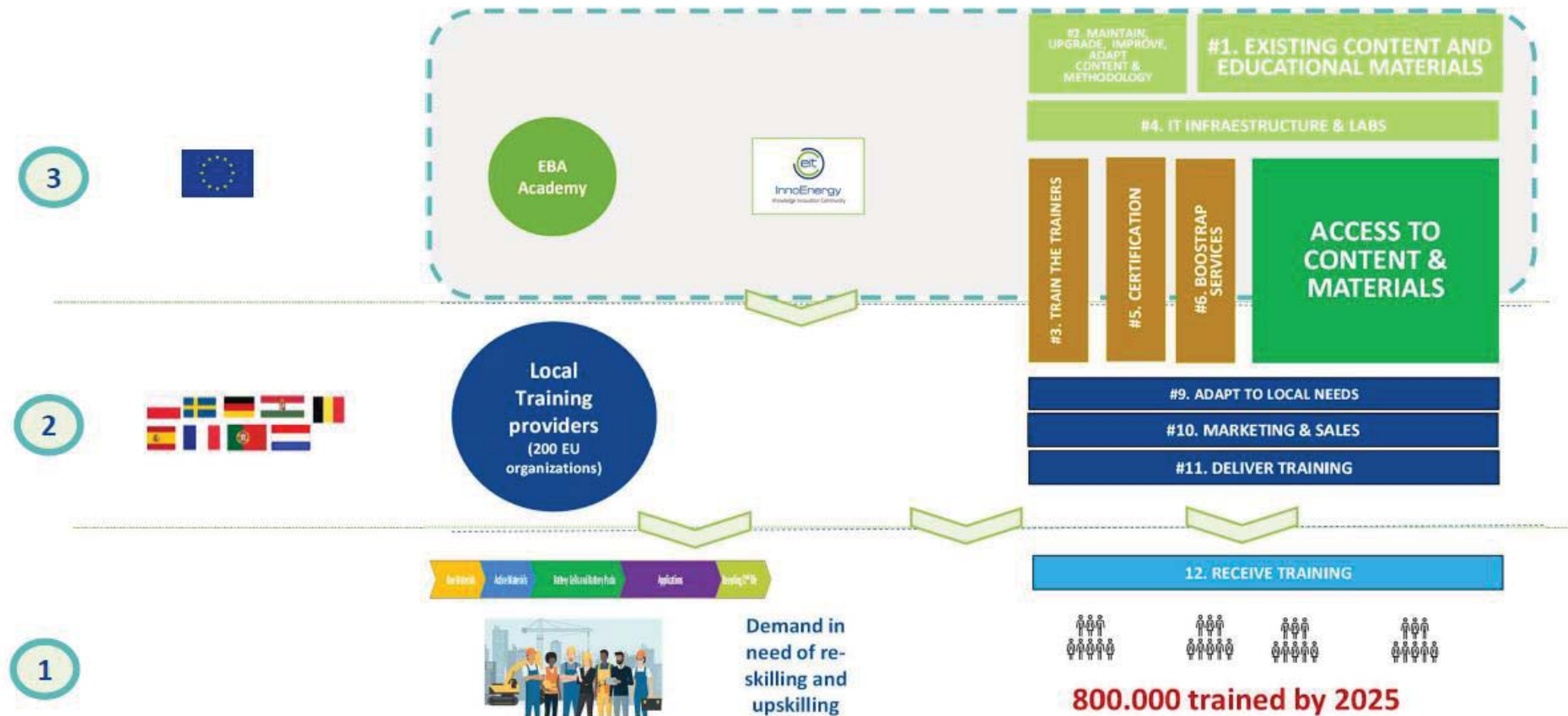
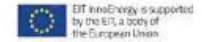
More than **37.000** learners already, with ratings <4 to 5>

But we need to scale up to reach 800.000, involving local training providers in the countries

Addressing the skills gap: EBA Battery Academy (3/3)

Architecture of the solution

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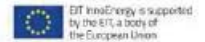
Three-layer architecture, multiplying the reach

- 1 **Workers** are trained by
- 2 **Local Training Providers** from Member States
- 3 using EBA Academy **content and platform**

EBA Battery Academy: Progress so far

3 Member States signed already (for 200.000 trained target)

6



Industry Employment

MOUs signed between **Member State** and **InnoEnergy** with the patronage of **VP Sefcovic**

How is it partially funded by the Commission & Member States? European Social Fund, JTF and RRF

7



ESF, JTF, RRF deployed to the benefit of local industry and training providers

A country implementation example: Sweden

Engaged parties by InnoEnergy...



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ET InnoEnergy is supported by the EIT, a body of the European Union



Local Training Providers

Bolag	Typ av organisation
Adia	Kommun & Förtägsutbildning
Continuing Education Institute	Förtägsutbildning
EET	Yrkesutbildning
Fokuseringsstiftelsen yrkesutbildningsutbildningar	Yrkesutbildning & Förtägsutbildning
Hälsö utbildningar	Yrkesutbildning & Förtägsutbildning
HSU	Yrkesutbildning & Förtägsutbildning
Kompetens Föregång	Yrkesutbildning
KTH Executive School AB	Förtägsutbildning
Kurskapitelen	Gymnasier, vuxen- och förtägsutbildningar
Kyb	Yrkesutbildning
Läroplan	Kommun, Yrkesutbildning & Förtägsutbildning
Lund University Education	Förtägsutbildning
Pharmacia Tekniska Institute	Yrkesutbildning & Förtägsutbildning
TJL Norge	Yrkesutbildning
Umeåregionens	Yrkesutbildning
Umeåregionens	Yrkesutbildning

+ 124 industries addressed

Swedish industry with reskilling need (EBA members + others)

Bolag	Typ av organisation	Kommentar
Hoch ABB Power Grids	Industry	Member of BASE
ABB	Industry	Member of BASE
Akademierna Hög	Industry	
Axiom	Industry	
Alma	Startup & SME	EBA250 medlem & Member of BASE
APR Technologies	Industry	
Atlas Copco Group	Industry	
BASF	Industry	
Bit Sweden	Association	Multipier?
BWV Sweden	Industry	
BNP Paribas	Financial institutions	EBA250 medlem
Boliden	Industry	
Boliden Bergslags	Industry	
Bombardier	Industry	
Business Sweden	Public Organization	EBA250 medlem
CEVT		
Chalmers	Research	
Chargedium	Startup & SME	EBA250 medlem
Comsol AB		Member of BASE
Conva Systems Sweden	Industry	
Costa		



Demand in need of re-skilling and upskilling



Benefitting the local players: training and industry

Q&A?

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