



Industry perspective for a competitive European battery industry: initiatives, regulation and research framework

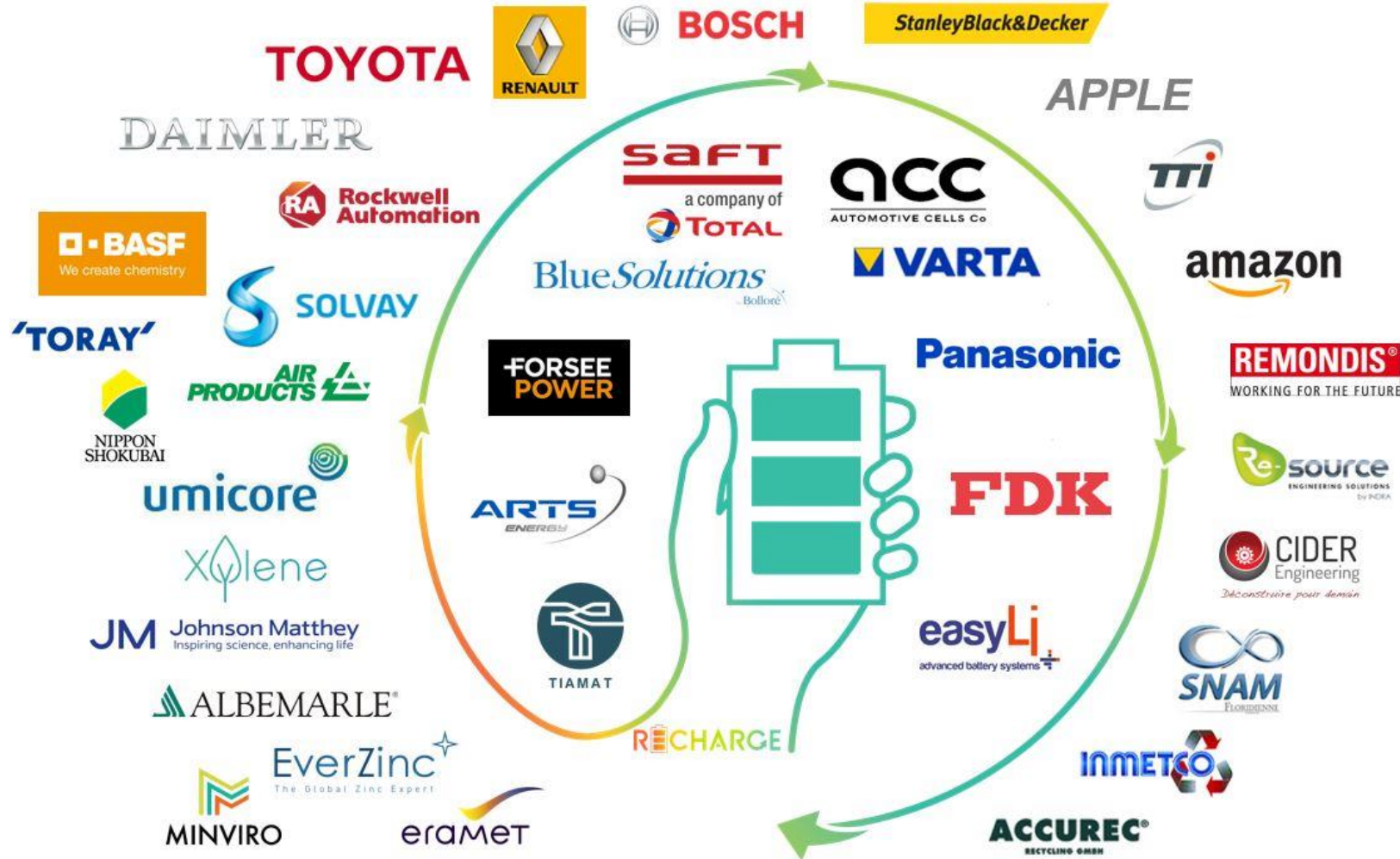
Claude Chanson

General Manager, RECHARGE

Swiss Battery Days, February 17th, 2021



Industry
Members



Association
Members

- EPTA THE EUROPEAN POWER TOOL ASSOCIATION
- Cobalt Institute
- Nickel INSTITUTE
- International Cadmium Association
- UL
- SolarPower Europe



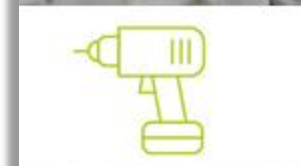
A close-up photograph of a person's hand inserting a black charging cable into the charging port of a white electric vehicle. The background is a soft-focus green and yellow gradient. A large, semi-transparent green circle is overlaid on the right side of the image, containing the main text.

**ADVANCED RECHARGEABLE
BATTERIES ARE A STRATEGIC
IMPERATIVE FOR THE
INDUSTRIAL AND SOCIAL
REVOLUTION TOWARDS A
MORE EMPOWERED AND
SUSTAINABLE SOCIETY.**



Batteries : a new global EU strategic approach

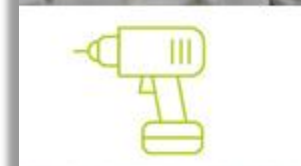
1. Green deal : strategic for climate change, is calling for the batteries energy storage.
2. EU Batteries Alliance: a new informal group, strategic for auto industry, end industrial development.
3. The EU Commission strategic action plan, and the batteries Regulation: a new regulating approach to support the industry.
4. The research funding: new priority and organization.





Agenda

1. The European Batteries Alliance and following initiatives
2. The new EU Batteries Regulation
3. The new framework for EU funded Batteries Research





1. The European Batteries Alliance



The EU batteries Alliance



The industrial development programme of the European Battery Alliance

3



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

EUROPEAN BATTERY ALLIANCE | **EBA250**

This cooperative ecosystem gathers the European Commission, interested EU countries, investment institutions and key industrial, innovation and academia stakeholders

EIT InnoEnergy has been trusted by the European Commission to drive forward and promote EBA250 activities, acting as network manager and project facilitator





The EU batteries Alliance

EBA@250: 4th September cumulative ecosystem
Going stronger and stronger

140 attendees

www.innoenergy.com

Raw materials	Active Materials	Battery Cells and Battery Packs	Applications			Recycling/2 nd life				
			E-mobility	ESS	Ind. applications					
EIT Raw Materials	Nanomakers	Magna Energy Storage	Akasol	VOLKSWAGEN	ENEL	Umicore				
Leading Edge Materials	3M	Gigavaasa	Envites Energy	ABB	AVL LIST	Veolia				
Outotec	Elkem	Saft	Continental	Ambibox	Cummins	Solvay				
EUROMINES	Imerys Graphite & Carbon	Varta	LION Smart	FIAT/Chrysler	TERNA	EBRA				
Eramet	Prince Erachem	Leclanché	BMZ	Renault/Nissan	EDF	Revatech-SUEZ				
Albemarle	BASF	EAS Batteries	Sonnen GmbH	PKN Orlen	cyberGRID GmbH					
TerraFame	Arkema	Terra E	EoCell Inc	Honda	Epiroc					
Rio Tinto	NXP Semiconductors	Liacon	HE3DA	Jaguar-Landrover	Albufera					
Magnis /Allocate	SGL Carbon SE	Northvolt	Blue Solutions	Rafako	Toyota					
European Metals Holdings	BELENOS	CustomCells		BMW	Manz					
Finnish Minerals Group	SGL Carbon SE	KLIB		PSA Groupe	CNH Industrial					
Copperalliance	CEFC			Ford Motor Company	Elring-Klinger					
Finnish Minerals Group	Heraeus			Forsee Power	Stihl					
Gov. of Western Australia	Nanomakers			VOLVO Car Group	Vattenfall					
Trafigura				Daimler	Total					
Keliber				Husqvarna						
Savannah Resources										
LOTOS										
Research and associations active in all parts of the value chain	Fraunhofer	CEA	ENEA	T&E (Transport and Environment)	EASE	EUROBAT	EMIRI	ANIE	Ångström Advanced Battery Centre	E4V
	RECHARGE	Akkurate OY	CEPS	SET Plan TWG 7	AIT	CEN/CENELEC	CEEP	Credit Agricole	DNV GL	SINTEF
	EGVIA	ifu	Innovate UK	Invest in Lithuania	Smart EN	VDMA	Future Energy Consulting	Vrije Universiteit Brussels	Catch	PFR

Attending company that has been previously engaged

Attending company that has not previously been engaged

Company that has been previously engaged, but not attending today





Batteries are part of the EU Green Deal

GREEN DEAL TIMELINE



FLEISHMANHILLARD

All dates are indicative –specific initiatives, sequencing and dates to be confirmed throughout 2020





The Commission proposed legislative approach

Framework:

Strategic Action Plan on Batteries of May 2018 announced that the Commission would “put forward battery sustainability 'design and use' requirements for batteries to comply with when placed on the EU market”.

Political guidelines in the European Green Deal: new industrial strategy + climate neutrality by 2050 + Carbon Border Tax to be gradually rolled out

Process

Implementation in the ongoing revision of the Batteries Directive, including the “sustainability initiative” (ex-“Batteries Ecodesign”)





2. The new EU Batteries Regulation



Commission Proposal: The next milestone in delivering on the Strategic Action Plan on Batteries

“ European policymakers are now in the unique position to translate the EU’s vision for sustainable, innovative and competitive batteries “made in Europe” into a meaningful legislative framework that will close the gaps in existing legislation and can level the playing field with international actors.



Support the competitiveness potential of the European battery ecosystem

Lean and Coherent Legislation



Value Chain Approach





A new Batteries Regulation

The proposal for a new Batteries Regulation was published by the EU Commission on December 10, 2020.

- COM(2020) 798/3: Proposal for a Regulation
- COM(2020) 798/3: Annexes 1 to 14
- SWD(2020)335 final Part 1: Impact Assessment (main report)
- SWD(2020)335 final Part 2: Impact Assessment (Annexes 1 to 8)
- SWD(2020)335 final Part 3: Impact Assessment (Annex 9)

LEGISLATIVE DATES

Publication of Commission proposal on 10/12/2020

- [Batteries Regulation](#)
- [Annexes](#)

Presentation of Commission proposal at Environment Council on 17/12/2020

EU Council's ENVI Working Party will discuss the file on 7/1/2021

Appointment of Rapporteur by European Parliament → Report (and opinion)

Council will hold technical and political discussions to establish own position → March 2021 EU Council will debate their joint political orientation.



New Regulation Objectives

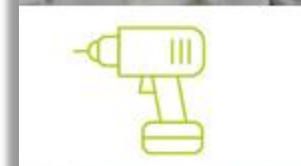
Strengthening the functioning of the internal market by ensuring a level playing field through a common set of rules

- Fostering the production and placing on the EU market of high-quality batteries
- Ensuring functioning markets for secondary raw materials and related industrial processes
- Promoting innovation and the development and take-up of EU technological expertise

Promoting a circular economy

- Increasing resilience and closing the materials loop
- Reducing the EU's dependence on imports of materials of strategic importance
- Ensuring appropriate collection and recycling of all of waste batteries

Reducing environmental and social impact throughout all stages of the battery life cycle





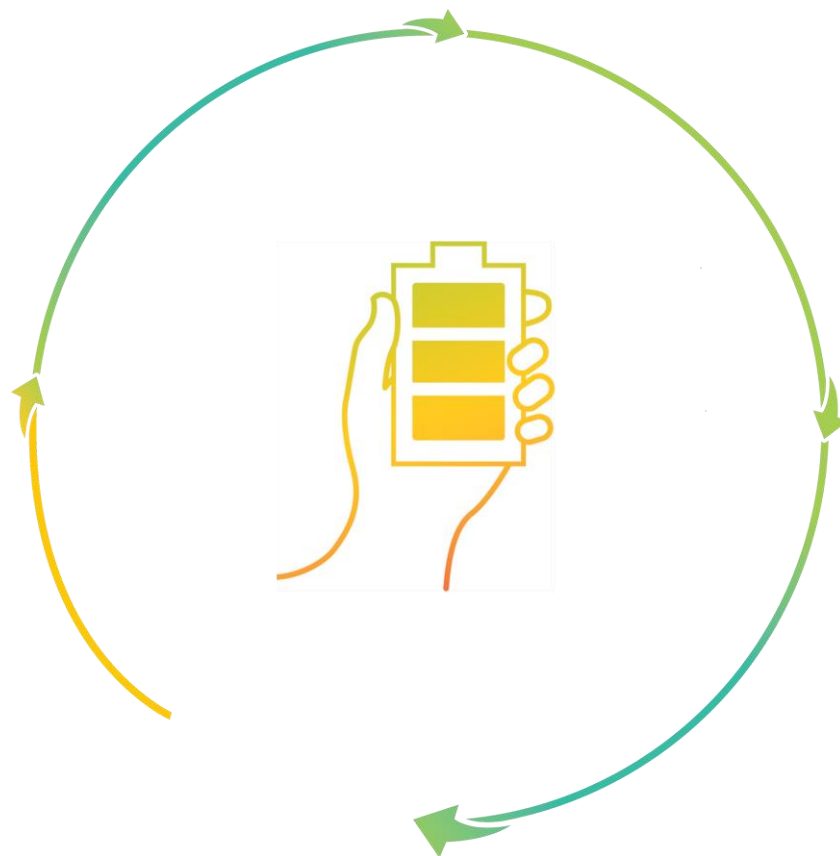
Today's Regulatory Battery Framework

MANUFACTURING

- Batteries Directive
- Chemicals safety - REACH, RoHS
- Workers protection - OSH
- Local permits
- ETS/CBAM

EXTRACTION & REFINING

- Chemicals safety - REACH
- Local permits
- ETS/CBAM
- Workers protection - OSH
- Voluntary ILO Principles
- Voluntary Due Diligence Guidance
- UN SDGs
- Trade treaties



TRANSPORT

- UN transport regulation
- National transport legislation

USE

- Product safety
- Labelling
- CE
- Declaration/PoM

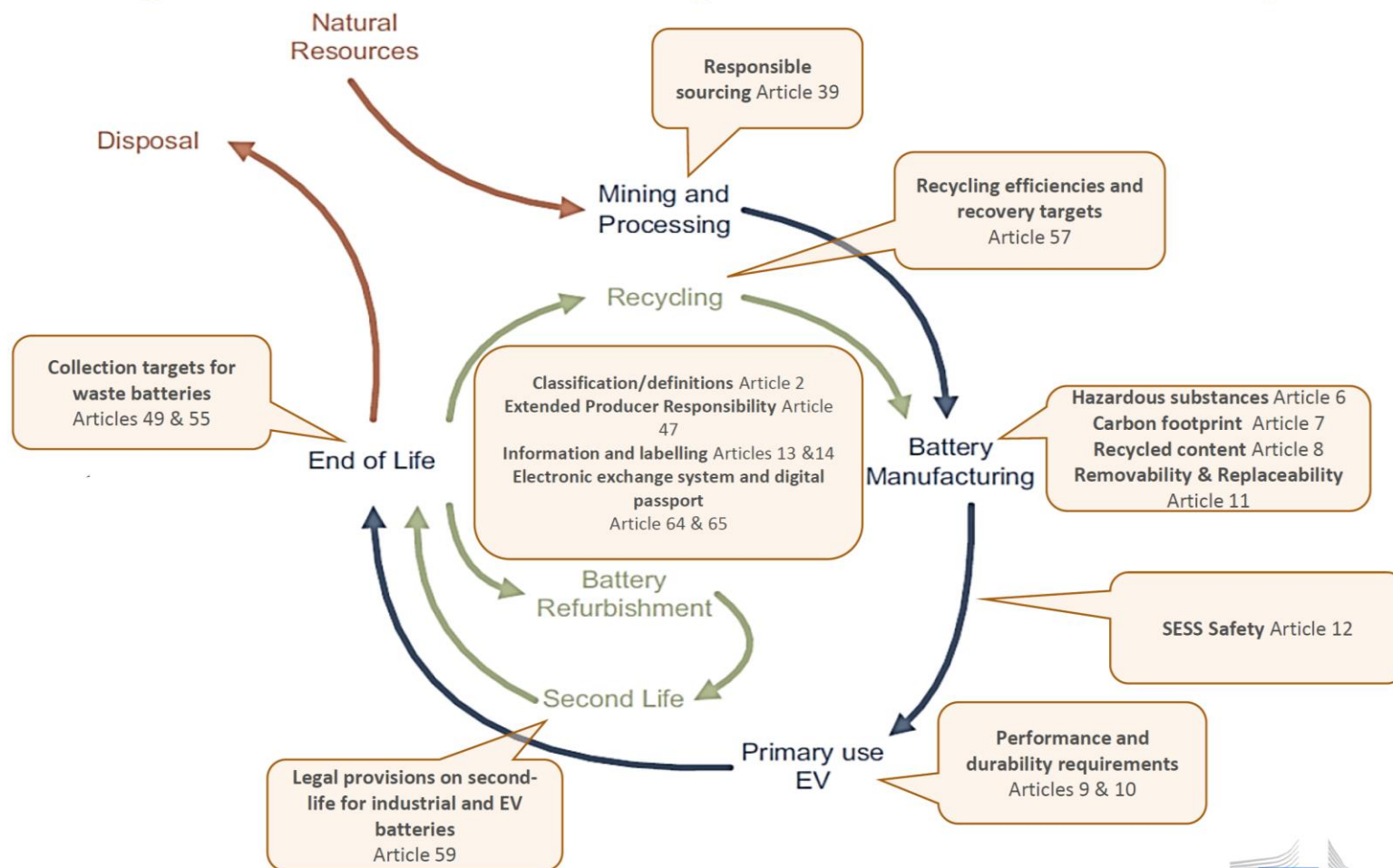
END-OF-LIFE

- Batteries Directive
- WFD, WEEE, ELVD, WSR
- UN and national transport regulation





Full life cycle coverage





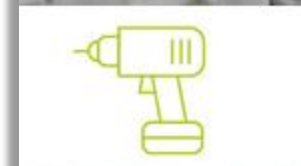
Industry's Assessment of the Batteries Regulation in a nutshell

RECHARGE welcomes:

1. Recognition of batteries' strategic role
2. Relevant updates
3. Objective to create coherence
4. Legal basis creating a high level of predictability
5. Inclusion of additional key sustainability pillars :
 - CO2 footprint
 - Due Diligence
 - Battery Passport
 - Green public procurement

In light of "Better Regulation", RECHARGE proposes to:

1. Ensure feasible timelines
2. Harmonize overlaps within Batteries Regulation/with other frameworks
3. Reduce complexity for SMEs and niche markets
4. Reduce complexity by focusing on real-benefits provisions
5. Strengthen enforcement and level playing field





Industry's Assessment of the Batteries Regulation in a nutshell

- The draft Batteries Regulation **adds important key sustainability pillars** (carbon footprint, due diligence, green procurement)
- Is not only a revision but **fully repeals** the existing Batteries Directive
- New **legislative basis allows for important predictability** – MS interpretations have created significant administrative/market obstacles
- Better **reflects today's battery market** (chemistry and applications)
- Good selection of areas for secondary legislation → allows thorough technical implementation in key areas

However, the draft Batteries Regulation also:

- Creates **increased complexity** by:
 - Sheer number of new measures
 - Complexity within the measures
- Features **several overlaps** within the Regulation and with other frameworks:
 - Chemicals management
 - Horizontal/overarching legislation (e.g. UN safety)
 - Overlapping circular economy requirements
 - Information/declaration/labelling provisions
- **Definition of measures scopes are too broad to be effective:**
 - Performance, durability criteria
 - BMS → 2nd life
 - Recovery and recycling efficiency targets
- Foresees challenging **timeframes**

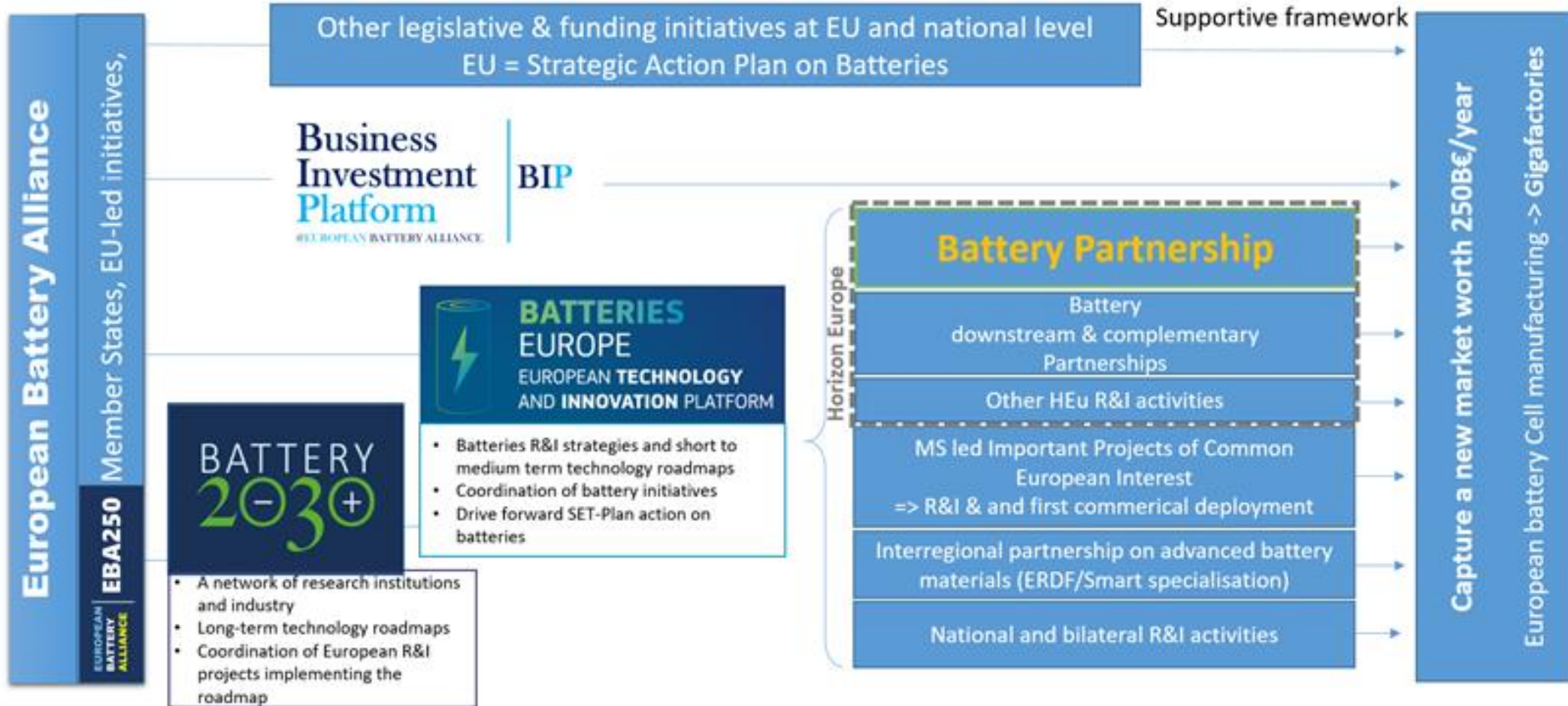




3. EU funded Batteries Research



New Research ecosystem for Batteries



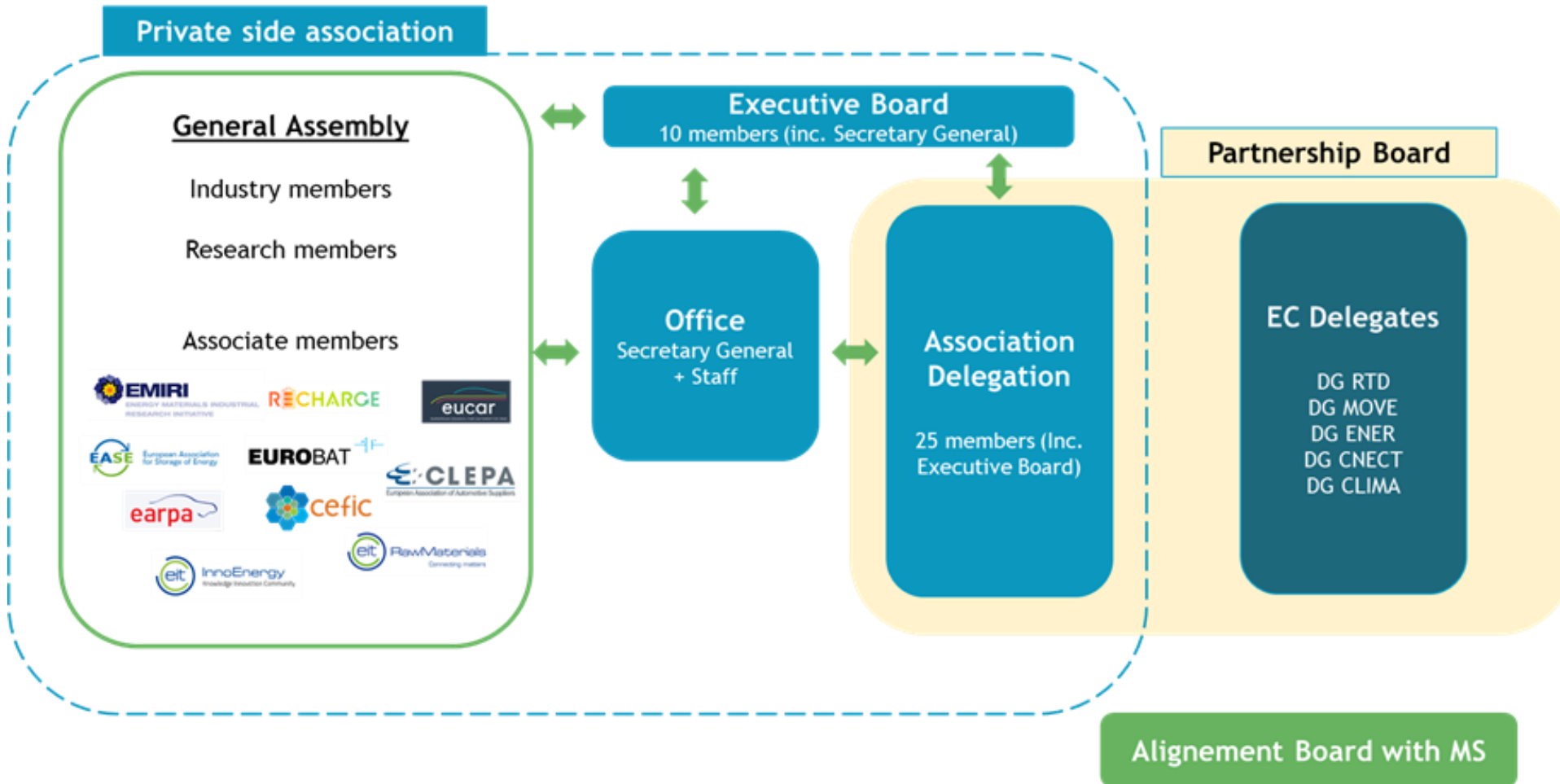


New funding coordination: BEPA



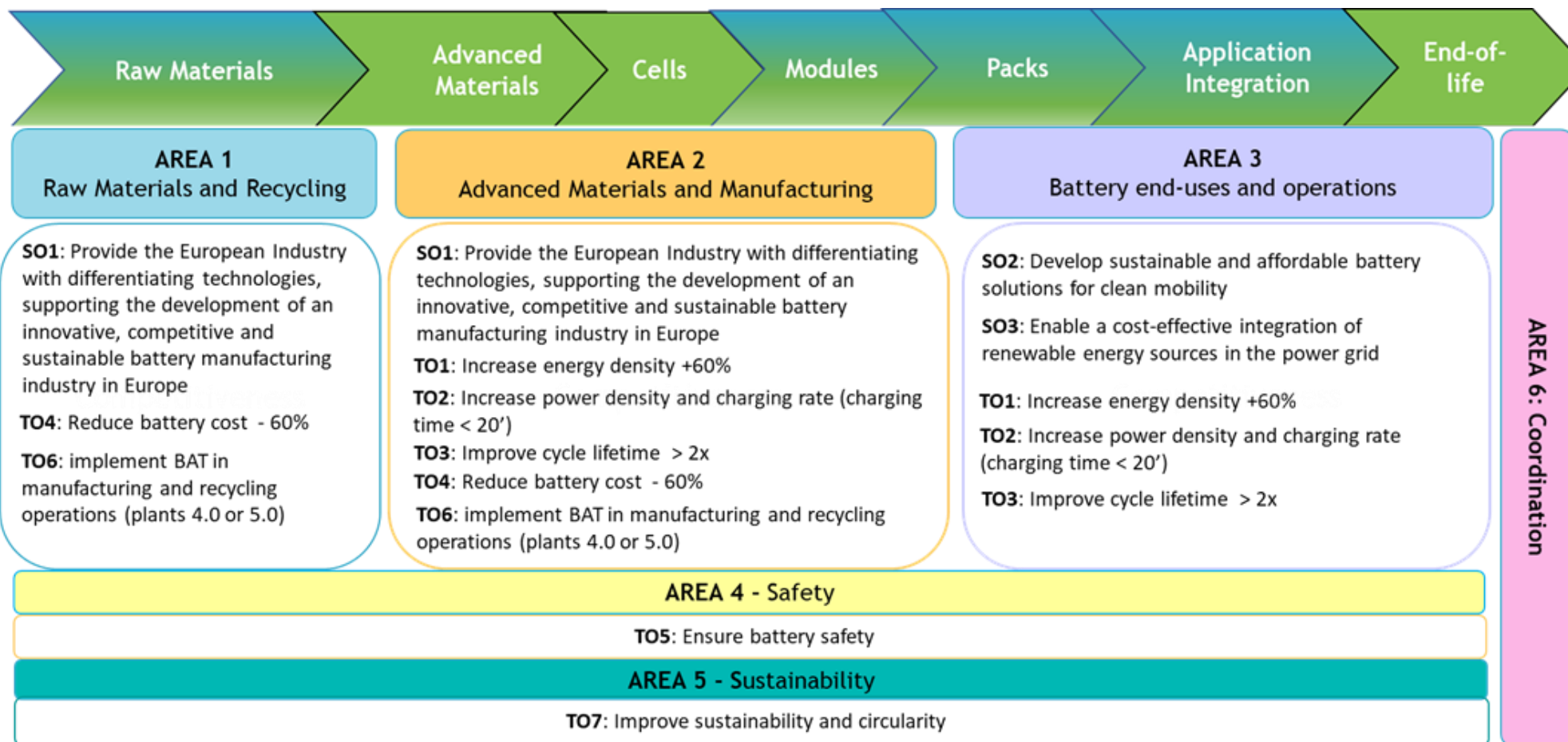


New funding coordination: BEPA





BEPA scope



RECHARGE

Thank you

RECHARGE aisbl
168, Avenue de Tervueren
1150 Brussels, Belgium
+ 32 2 777 05 60

- ✉ recharge@rechargebatteries.org
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