



7th General Assembly

info@bepassociation.eu

2023

Welcome & Practical Aspects

Michael Lippert
BEPA Chairman

Welcome | Practical aspects

- The meeting is **recorded**.
- During discussions, please **post comments in the Q&A** if you would like to intervene. The BEPA staff is monitoring the chat and Q&A and will make your voice heard.
- If you encounter **technical issues**, please send a message in the chat.
- The **slides** and **minutes** of the meeting **will be shared** with all BEPA members after the General Assembly.

Welcome |Agenda

TIME	ITEM
8:30-09:00	Registration process
09:00-09:05	Welcome
09:05-09:20	<i>Message from the Commission</i>
09:20-09:40	<i>BEPA Activities 2023</i>
09:40-09:50	<i>New members presentation</i>
09:50-10:30	<i>The new SRIA: Raw materials, advanced materials, cell design and manufacturing</i>
10:30-10:50	<i>Elections</i>
10:50-11:15	Coffee Break

TIME	ITEM
11:15-11:25	<i>Announcement of election results</i>
11:25-12:05	<i>The new SRIA: Mobile and Stationary Applications, Recycling and Transversal Challenges</i>
12:05-12:45	<i>Work plan 2024</i>
12:50-13:00	<i>Concluding remarks</i>
13:00	Lunch



Message from the Commission

Johan Blondelle

European Commission, DG RTD

BEPA activities in 2023

Philippe Jacques

BEPA Secretary General

Virginia Petetti

BEPA Communications Officer

Achievements Summary of 2023



26 more BATT4EU projects (from WP 2022) have been granted in 2023: 48% of the project beneficiaries are BEPA members, among them 17 out of 26 projects are coordinated by BEPA members.



Finalisation of the SRIA: BEPA has gathered the opinion of its **hundreds** of experts through the working groups meeting. The 6 working groups met over **70** times in total. Furthermore BEPA has been in consultations with the Commission to finalise the Strategic Research Innovation Agenda.



We maintained collaborations and organised workshops with **other Partnerships**, participated in events by **national battery clusters** and established **7 media partnerships** with leading European and international events.



BEPA welcomed 29 new members in 2023: among them 18 represent the industry, 2 associates, 9 research.



We have created a common visual identity with other battery initiatives (BEPA, Batteries Europe, Battery2030+, IPCEI) with the new tagline 'The European Batteries R&I Community'



We are gathering around 200 BEPA members , 113 onsite during the 7th BEPA GA in Bordeaux and 1400 stakeholders at BIDs

BEPA Activities 2023 Meeting national and international partners

BEPA invested heavily in collaboration with stakeholders in 2023

- **Strengthening:** We co-hosted a physical meeting of our National and Regional Representative Group (NRCG) in Brussels
- **Deepening:** The BEPA Secretariat attended national and regional events in Spain, Portugal, the Netherlands and will still go to Poland and Turkey
- **Widening:** BEPA attended the final event of the Fit4NMP project in Luxembourg targeting underrepresented regions and went to Montenegro to reach out to the Western Balkans
- **Internationalising:** BEPA presented to the EU-India Trade and Technology Council and will present to the North American NAATbatt association



BEPA Activities 2023 Participation in project events

- The BEPA Secretariat attended events by the following Horizon Europe and H2020 projects and clusters
- Clustering activities will become more important in the future

The logo for sensibat, featuring the word "sensibat" in a dark blue sans-serif font. The letter "i" is replaced by a stylized battery icon with a yellow dot at the top.The logo for TALENT, featuring a stylized triangle composed of green and blue segments with a black lightning bolt in the center. Below the triangle, the word "TALENT" is written in a blue, spaced-out, sans-serif font.The logo for Respect, featuring a green square icon with a white checkmark inside a circle. To the right of the icon, the word "Respect" is written in a white, bold, sans-serif font on a dark blue background.

BEPA Activities 2023 Cross-Partnership workshops

- Hybrid workshops with Zero-Emission Waterborne Transport and Europe's Rail Joint Undertaking's project Rail4Earth
- Joint meeting with the JRC and 2Zero to align information exchange on battery topics, including battery regulation



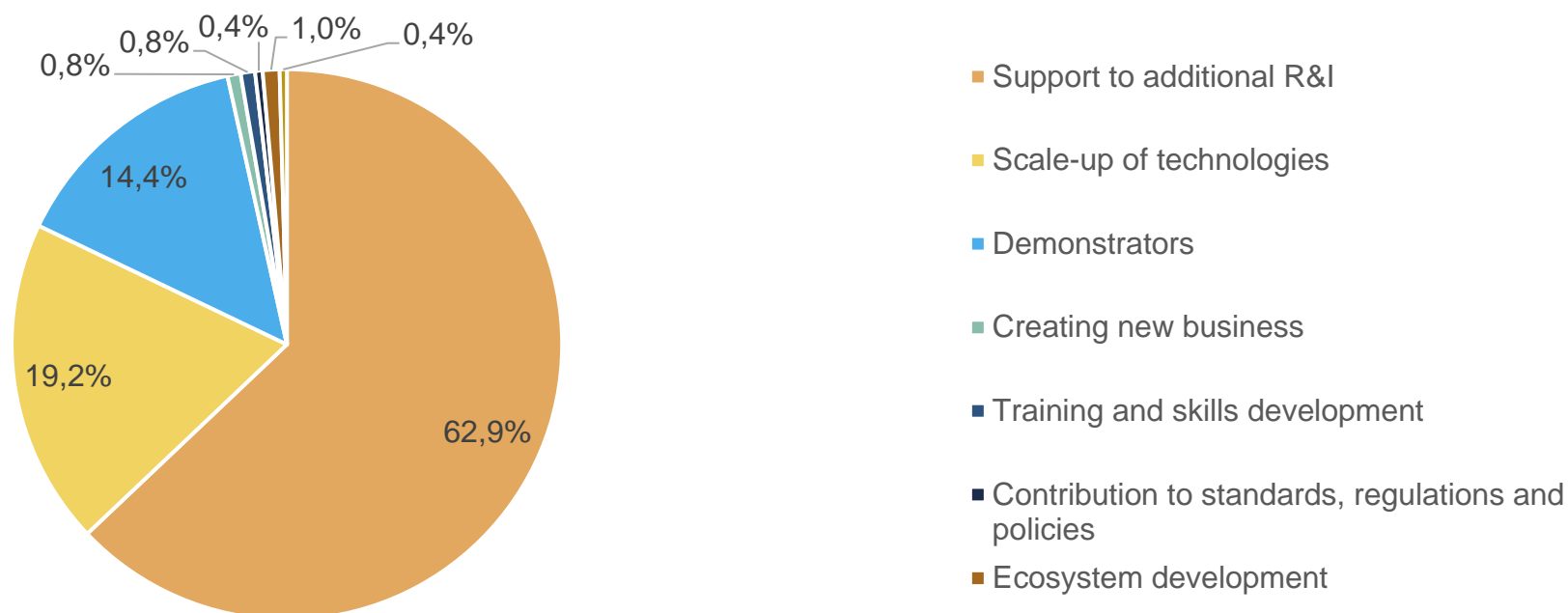
BEPA Activities 2023 Other outreach activities after last GA

- BEPA booth at Batteries Event '23 in Lyon
- BEPA board members active at EBA meeting in Amsterdam and EIT Raw Materials Expert Meeting on Batteries
- Presentations at events like EU Sustainable Energy Week, World Energy Storage Day, Energy Storage Global Conference



BEPA Activities 2023 Monitoring and reporting

- BEPA members have reported **€ 496 million** in Additional Activities for the period June '21 – Dec '22



- A second opinion will seek to confirm this number based on extrapolations and expert analysis.

BEPA Activities 2023 Common identity

One visual identity to show the initiatives that work together towards the common goal of creating the best battery R&I ecosystem in Europe.



Energising
The European Batteries
R&I Community

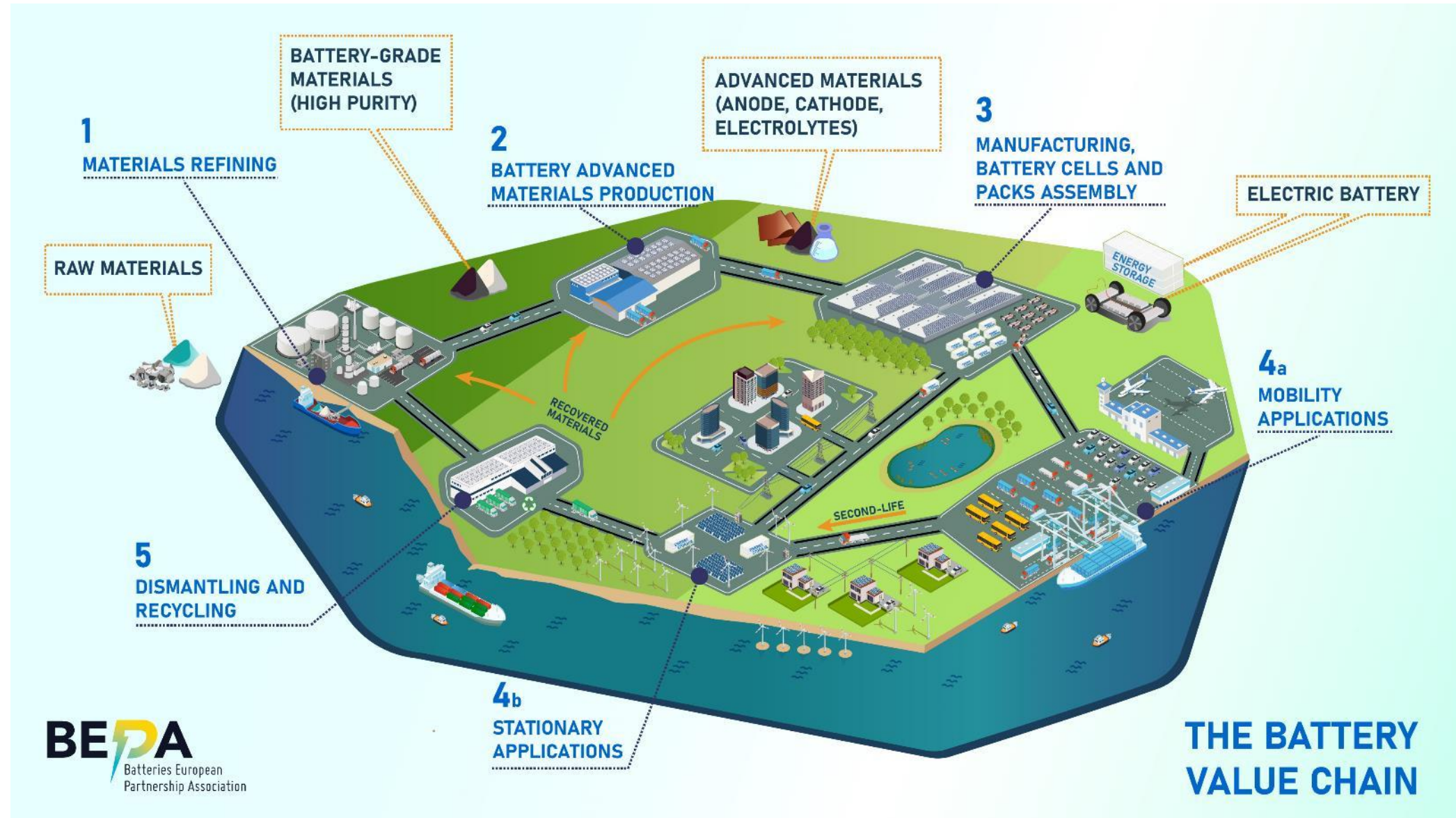
Batteries
+ Europe

BATTERY
20-30+

 **IPCEI**
BATTERIES

BEPA
Batteries European
Partnership Association

BEPA Activities 2023 Battery Value Chain Infographics



BEPA Activities 2023 | Monthly Read

Publication of articles for members only

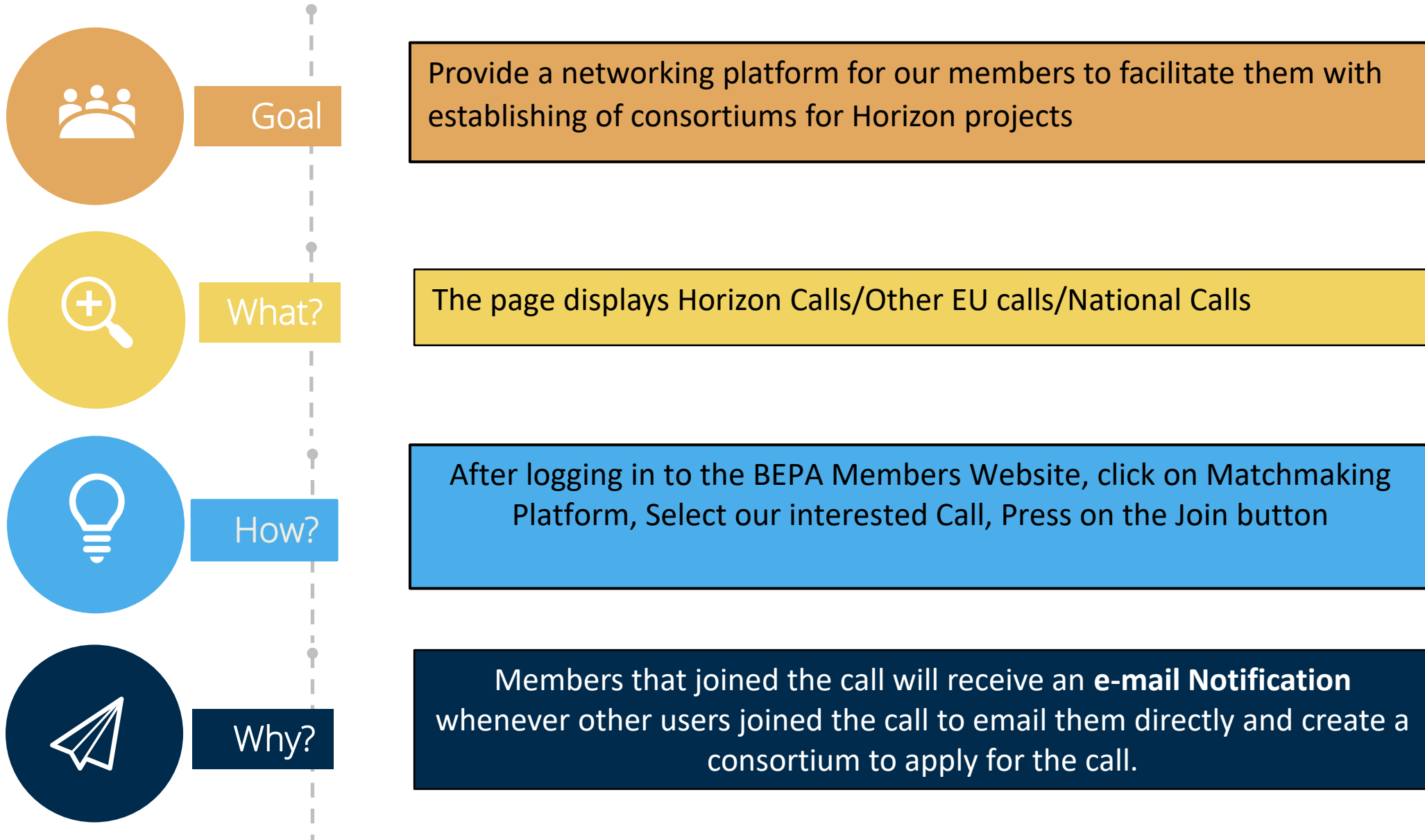
The graphic for 'THE BEPA MONTHLY READ' has a light blue background with a circuit board pattern. It features several icons: a battery with a lightning bolt, a recycling symbol, a truck, a factory, and a building. The BEPA logo is prominently displayed in the center.

BATTERIES REGULATION BRIEF OVERVIEW

BEPA - Batteries European Partnership Association op LinkedIn • Leestijd: 4 min.

The long awaited Batteries Regulation has been revealed earlier this summer, and went into effect 17 August. The regulation applies to ...

Overview | Website Updates: Matchmaking Page



**Step
1**

Matchmaking platform

MATCHMAKING PLATFORM

Horizon Europe Calls



Calls from other Partnerships



Join Horizon Calls



☐ GDPR acceptance: In order to achieve this vision, the ambition of BEPA - the private-side of the Partnership - is to identify, within all the research and innovation needs (R&I) across the battery value-chain, the most urgent and strategic priorities to be addressed within the Horizon Europe Work Programmes.

Join this call

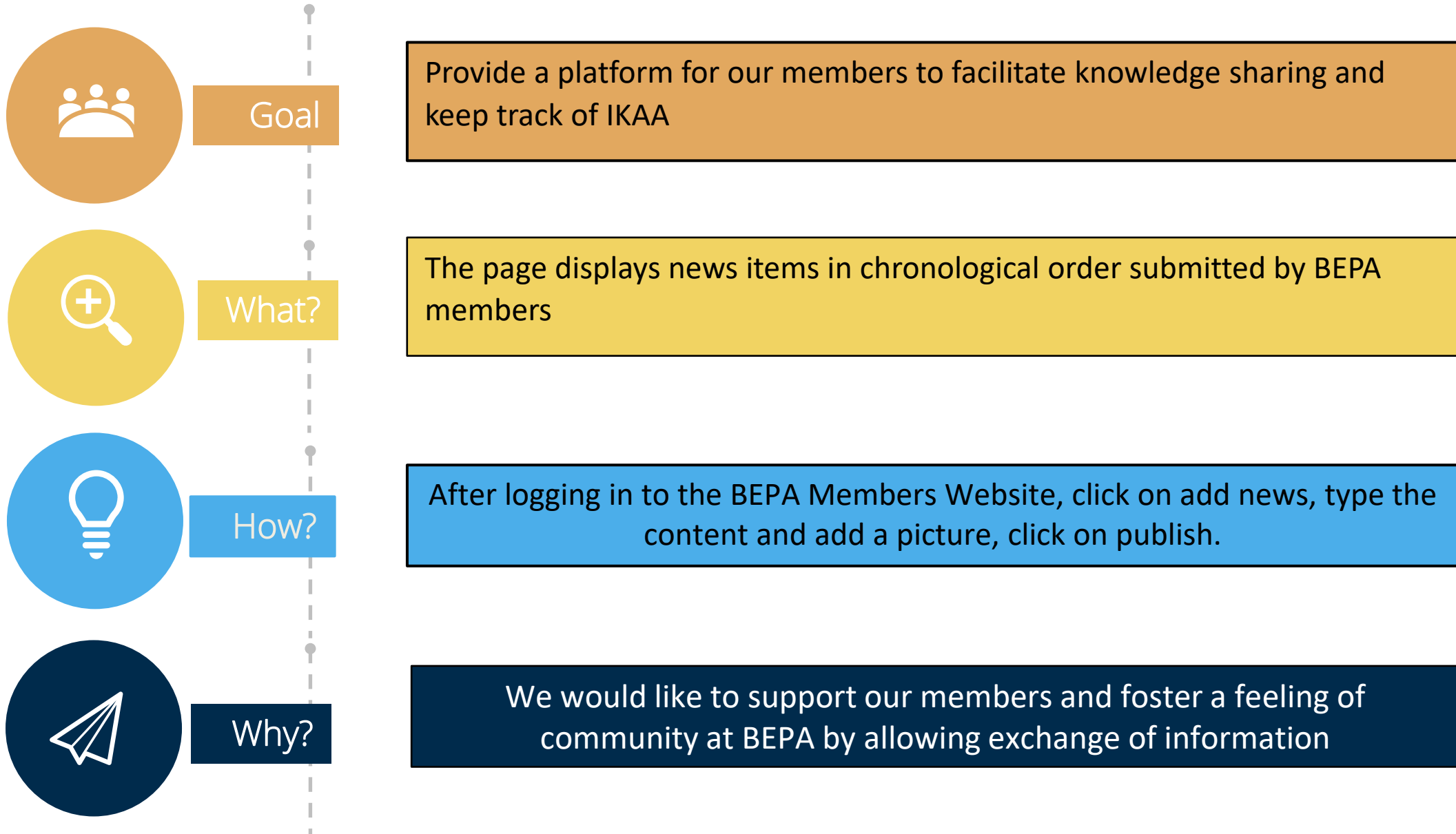
**Step
2**

- HORIZON-CL5-2024-D2-02-03: Size & weight reduction of cell and packaging of batteries system, integrating lightweight and functional materials, innovative thermal management and safe and sustainable by design approach, September 05 2024 deadline

Join

**Step
3**

Overview | Website Updates: Members News



Members news and updates

Step 1

Step 2

Registrations Open: 7th BEPA General Assembly

ORGANISED BY BEPA



REGISTER NOW!

On 16 November 23 BEPA will be traveling to Bordeaux for the 7th BEPA General Assembly, marking this our first ever GA to

[/beassociation.eu/7th-bepa-general-assembly/](https://beassociation.eu/7th-bepa-general-assembly/)

Registrations Open: Innovation Uptake Workshop

ORGANISED BY BEPA



REGISTER NOW!

On 15 November 2023 BEPA will organise a Workshop dedicated entirely to the Innovation Uptake during the Battery Innovation Days in Bordeaux.

BEPA Activities 2023 Budget update

- As of 30/09/2023, there was still an outstanding amount of €29.625 in unpaid membership fees. A reserve post of €15.000 has been kept, in case of non-payment.
- The total of costs for event are likely lower than projected, but EOY expenses for events could still rise due to 2024 TRA event booth.

BEPA Activities 2023 Budget update

Budget categories		Budget 2023	Realised 31.10.23	EOY best estimate
Code	Revenue			
MF	Membership Fees	€ 824.500	€ 847.750	€ 875.875
	Total Revenue	€ 824.500	€ 847.750	€ 875.875
	Expenditures			
SEC	SecGen & Staff	€ 574.750	€ 431.062	€ 574.750
CON	Consultancy	€ 30.000	€ 1.815	€ 27.265
COM	Communication	€ 25.000	€ 7.476	€ 18.000
ITE	IT	€ 10.000	€ 3.383	€ 10.000
REC	Meetings / Events	€ 102.500	€ 39.077	€ 92.077
TRA	Travel	€ 20.000	2.284	€ 10.000
	Accounting + audit + financial charges	€ 33.000	€ 6.493	€ 25.000
ACC				
REN	Housing	€ 38.500	€ 25.256	€ 38.500
STR	Staff training	€ 10.000	€ 0,00	€ 7.450
RES	Reserve	€ 25.000	€ 0,00	€ 15.000
	Total Expenditures	€ 868.750	€ 516.846	815.542,20
	Result	-€ 44.250		€ 57.832
	Balance of previous year	€ 571.700		€ 571.700
	New balance	€ 527.450		€ 629.532



*Merci,
Philippe!*



New members

Simon Perraud

BEPA Vice-President

New Members Introduction



New Members Overview

Name	Country	Website	Category
Flanders Make	Belgium	www.flandersmake.be	Full member - Research - Small
Shift Materials	Norway	www.shiftmaterials.no	Full Member - Industry - Small
Lithium367	Norway	https://lithium367.com/	Full Member - Industry - Small
BasqueVolt	Spain	https://basquevolt.com/en	Full Member - Industry - Small
ICPT	Poland	www.icpt.pl	Full member - Industry - Intermediate
Planck Technologies	Norway	https://planck-tech.no/	Full Member - Industry - Small
ABEE	Belgium	https://abeegroup.com	Full Member - Industry - Small
Åbo Akademi University	Finland	www.abo.fi/en	Full member - Research - Large
KTH	Sweden	www.kth.se	Full member - Research - Large
Pomega	Turkey	https://www.pomega.com/en/	Full member - Industry - Medium
NC Power	Spain	ncpower.es	Full Member - Industry - Small
PiLDER	Turkey	pilder.org.tr	Associate member
Shell	The Netherlands	http://www.shell.com	Full member - Industry - Large
Rimac	Croatia	https://www.rimac-technology.com/	Full member - Industry - Intermediate
BeonD	Italy	www.beond.net	Full Member - Industry - Small



The new SRIA – part 1

Edel Sheridan

BEPA Executive Board Member

- 2020-21 Preparation for launch of BATT4EU, drafting of the SRIA and calls for WP '21-'22 by the “shadow group”
- December 2020 BEPA established
- April 2021 SRIA and WP'21-'22 texts frozen
- June 2021 BATT4EU launched, calls published
- September 2021 SRIA officially adopted
- Autumn 2021 Drafting of the WP'23-'24 calls
- April 2022 Decision to integrate Working Groups and merge Batteries Europe SRA and BATT4EU SRIA in one
- Spring 2023 Working Groups drafting Roadmap
- Summer 2023 Working Groups identify strategic topics from the Roadmap

Legislative / political developments

- RePower, Fit for 55 package, Critical Raw Materials Act and Net-Zero Industry Act
- Safe and Sustainable by Design framework
- PFAS ban
- EU Court of Auditors review of spending in the battery value chain.

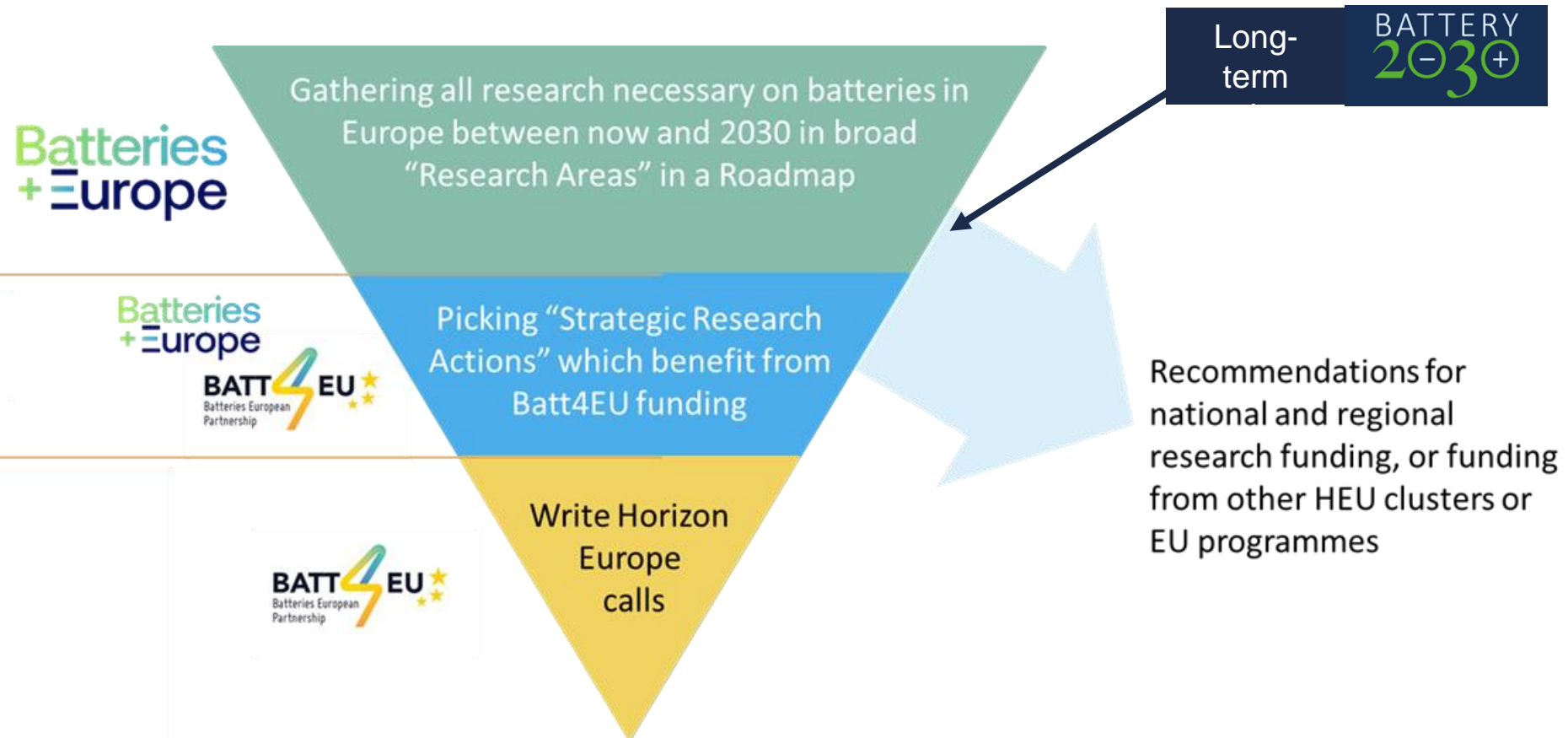
Market/industrial developments

- Increased demand for ESS storage and non-EV mobile applications
- Gigafactories coming online
- IRA
- Breakthroughs in LFP, Na-ion, semi-solid state

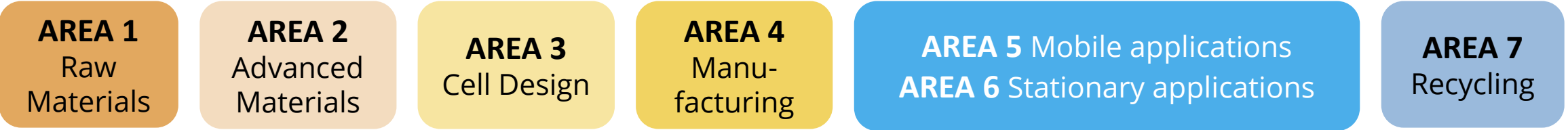
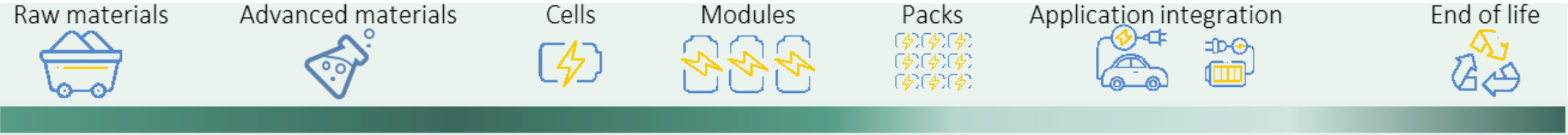
Organisational developments

- Joint Battery Europe / BEPA Working Groups

SRIA | Relation of Roadmap(s) and SRIA



2023 SRIA R&I focus areas



TRANSVERSAL TOPICS – Safety, Sustainability, Digitalisation, and Education & skills

COORDINATION – Of the European R&I Ecosystem

Strategic Research Topics per Area

Raw materials, Advanced Materials, Cell Design and Manufacturing



Marja Vilkmann
VTT



Silvia Bodoardo
PoliTo



Daniela Fontana
COMAU

Raw materials & Recycling

Strategic Topics



Sustainable processing and refining of battery-grade raw materials for *lithium-ion batteries*



Sustainable processing and refining of battery-grade raw materials for *sodium-ion batteries*



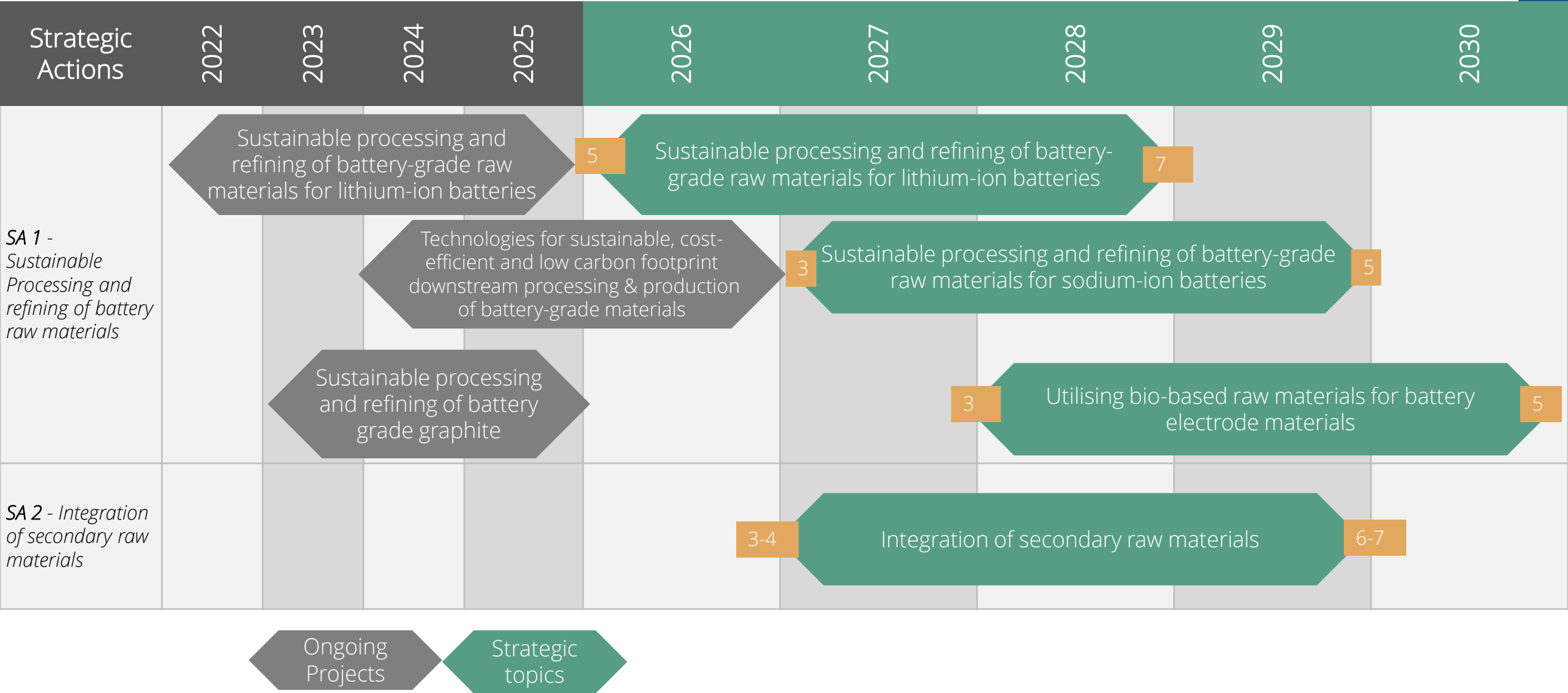
Utilising *bio-based raw materials* for battery electrode materials



Integration of *secondary raw materials*

Raw materials

Timeline



Advanced Materials

Strategic Topics: Mobility



Liquid electrolyte lithium-ion batteries

- Development of design-to-cost chemistries
- Development of design-to-performance chemistries



Solid-state lithium-ion batteries

- Development of generation 4c
- Scale-up and market intro of Gen. 4a and Gen.4b
- Use of design-to-cost cathodes with solid-state electrolyte



Sodium-ion batteries (mobility and stationary)

- Development of generation 3 (liquid electrolyte)
- Development of generation 4 (solid electrolyte)



Development of next generation sustainable batteries for mobility

Advanced Materials

Strategic Topics: Stationary



Enhanced materials for vanadium redox flow batteries



Next generation batteries for long duration storage



Next generation batteries for high-power applications in grid

Other Strategic Topics



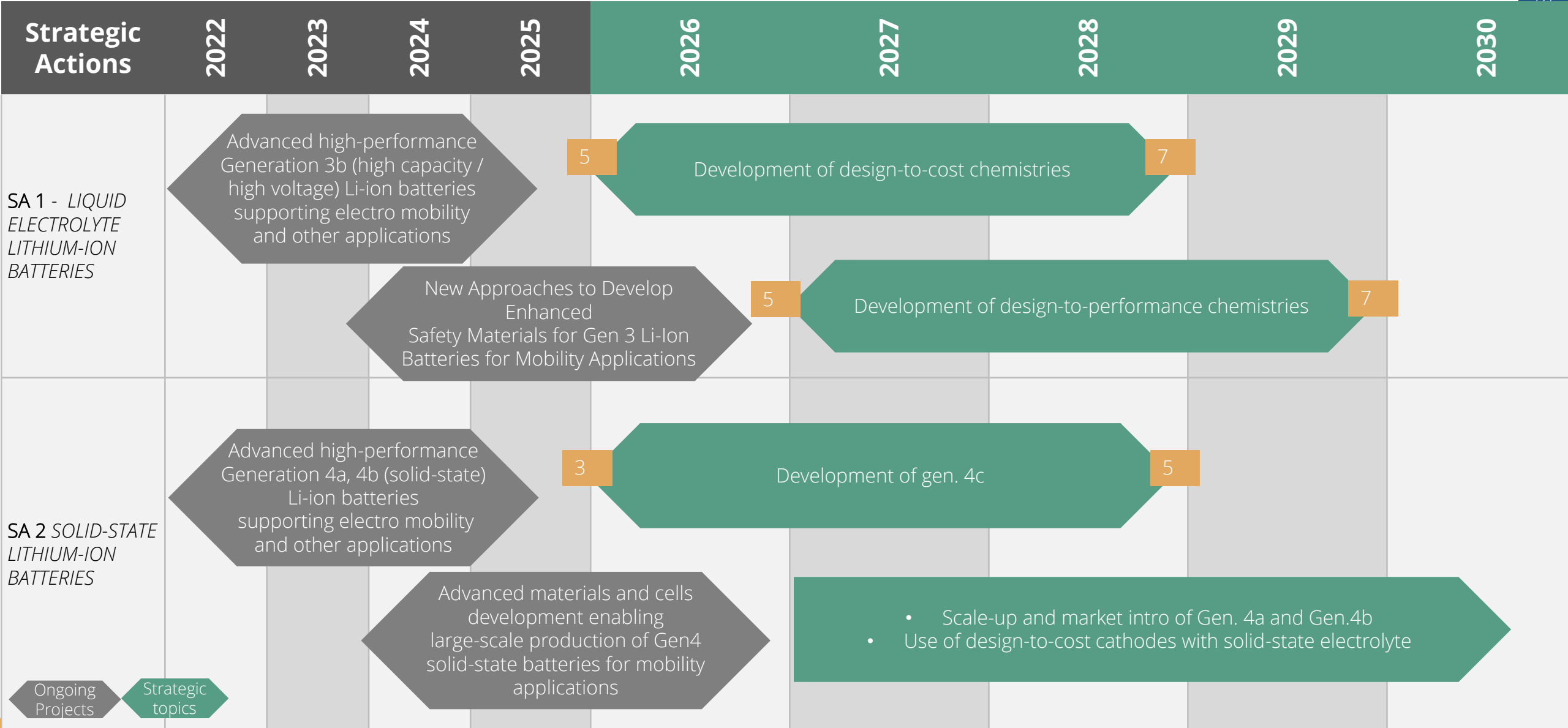
Biomimetic materials with self-healing functionalities



Accelerated battery material discovery and interface engineering

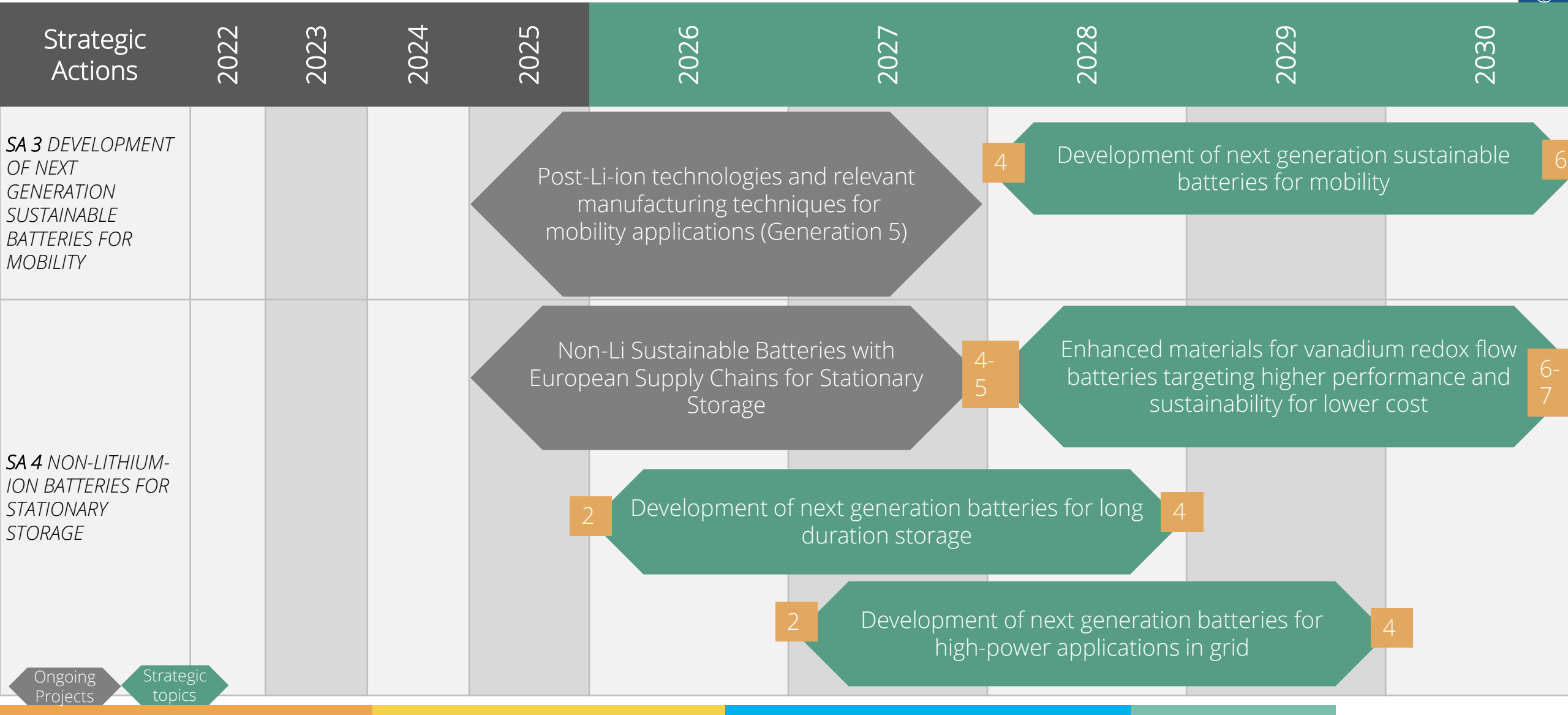
Advanced Materials

Timeline



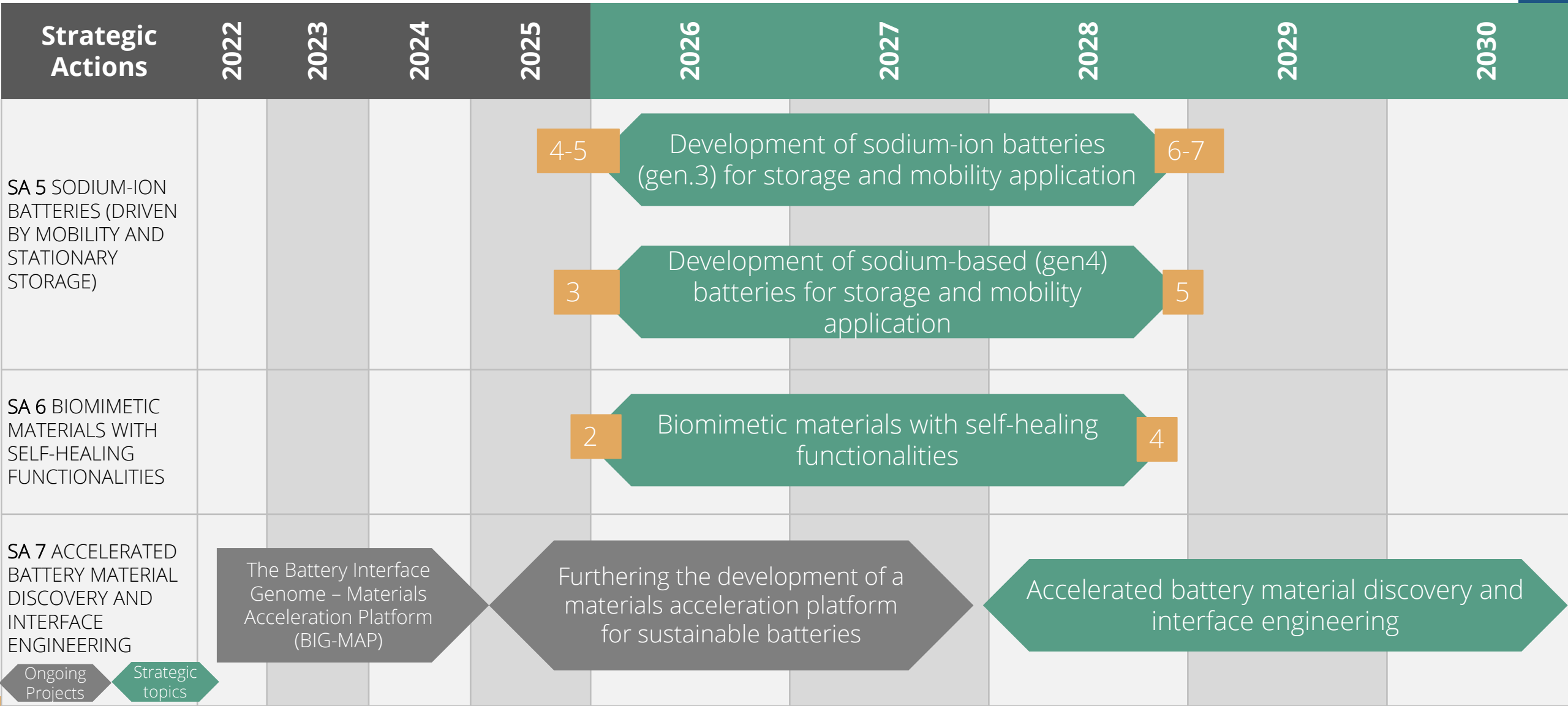
Advanced Materials

Timeline









Advanced Materials

Timeline



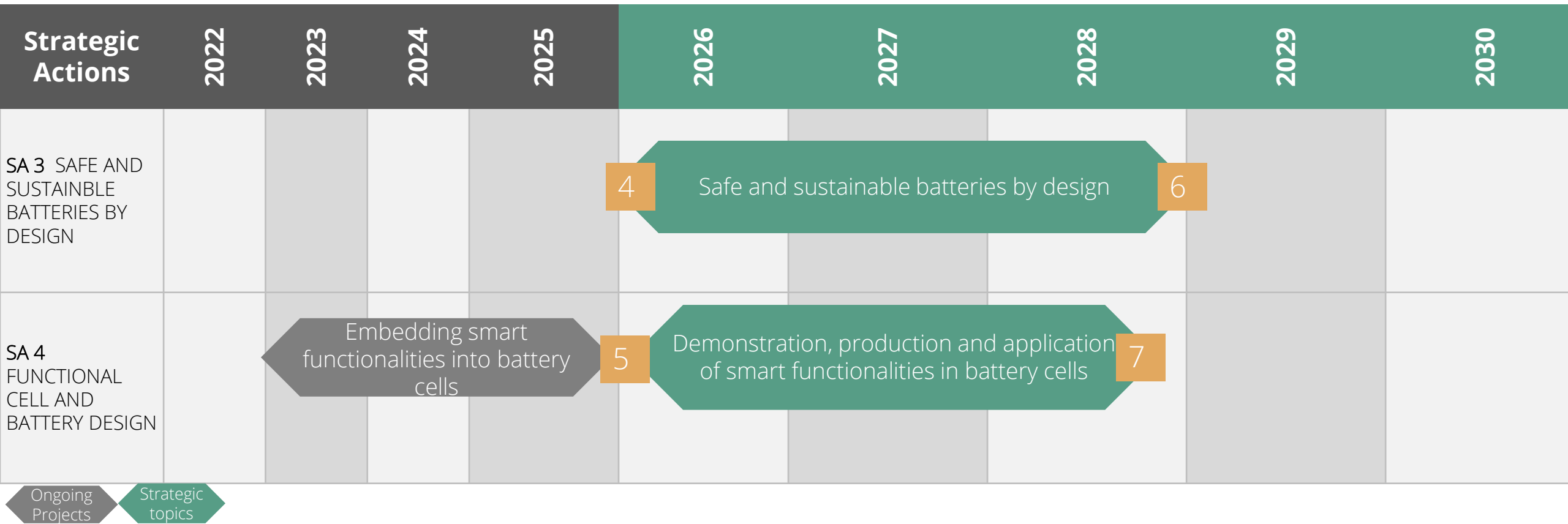
Design & manufacturing

Strategic Topics

-  *Safe and sustainable batteries by design*
-  *Demonstration, production and application of smart functionalities*
-  *Environmentally sustainable processing techniques applied to large-scale manufacturing for gen.3 and gen.4 li-ion batteries*
-  *Flexible pilot lines for current and next-gen technologies*
-  *Uptake of advanced digital twins in li-ion battery production lines*
-  *Advanced digital twins for accelerated set-up of manufacturing processes for the emerging chemistries*

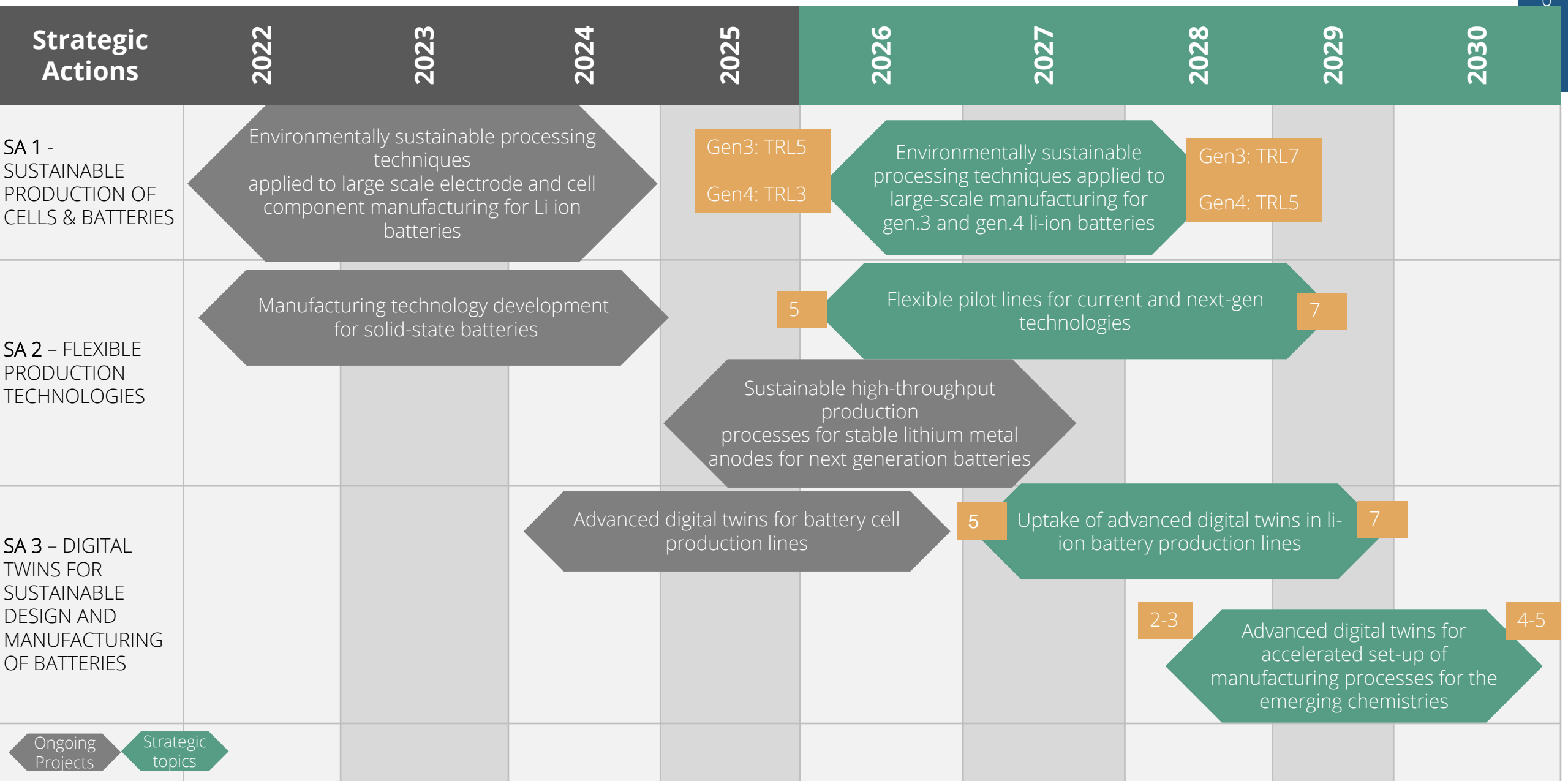
Design

Timeline



Manufacturing

Timeline





BEPA Elections

Michael Lippert
BEPA Chairman

Elections **New Secretary General**

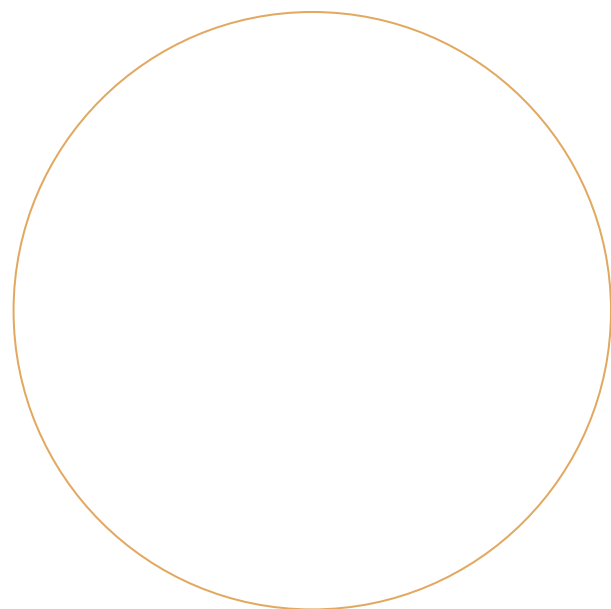


Elections **New Secretary General**



Fabrice Stassin

Elections **BEPA** Executive Board



Advanced Materials
No candidates

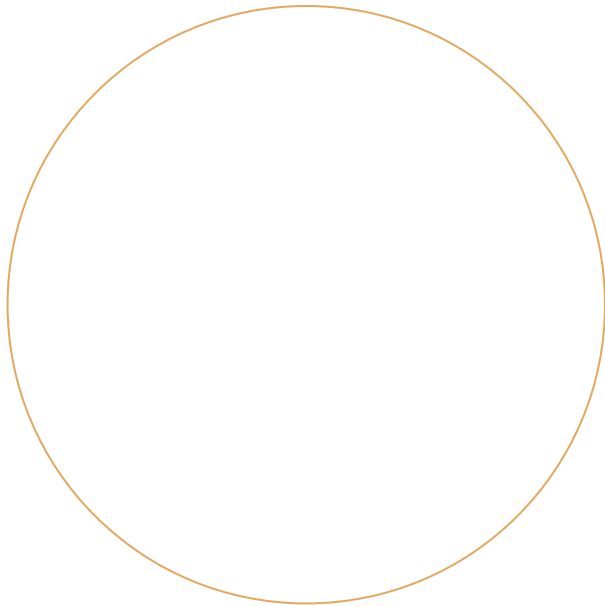


Manufacturing Supply
Gian Carlo Tronzano
COMAU



Recycling
Justo Garcia
Orano

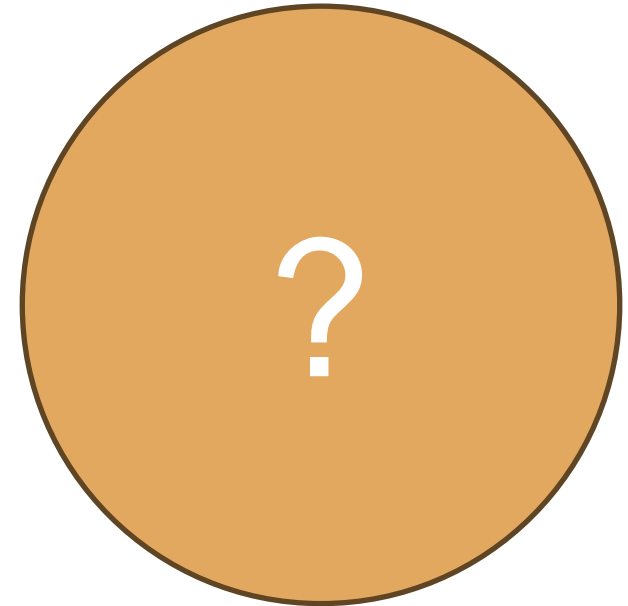
Elections BEPA Association Delegation



Raw Materials
No candidates



Advanced Materials
Ilaria Pucher
Green Energy Storage



Automotive
2 candidates

Elections BEPA Association Delegation - Automotive

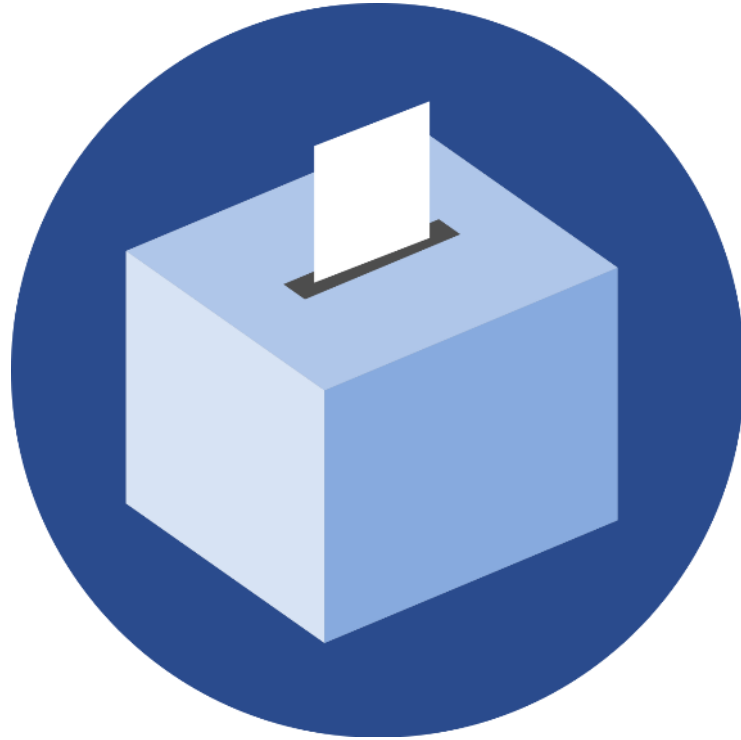


Mel Totman
Rimac Technology



Francesco Maltoni
FEV

Elections **Vote!**



BREAK

See you at 11.15



BEPA Election Results

Michael Lippert
BEPA Chairman

Elections Results

“The General Assembly has elected Gian Carlo Tronzano as the Manufacturing Supply Representative in the Association Delegation.”

“The General Assembly has elected Justo Garcia as the Recycling Representative in the Association Delegation.”

“The General Assembly has elected Ilaria Pucher as the Advanced Materials Representative in the Association Delegation.”

“The General Assembly has elected Mel Totman as the Automotive Representative in the Association Delegation.”



The new SRIA – part 2

Edel Sheridan

BEPA Executive Board Member

Mobile and stationary applications, recycling and transversal challenges



Franz Geyer
BMW Group



Matthias Vetter
Fraunhofer ISE



Bozorg Khanbaei
BEPA



Marja Vilkmann
VTT

Mobility Application

Strategic Topics

 *Thermal management in harsh use and extreme conditions*

 *High-performance, cost efficient safe by design batteries*

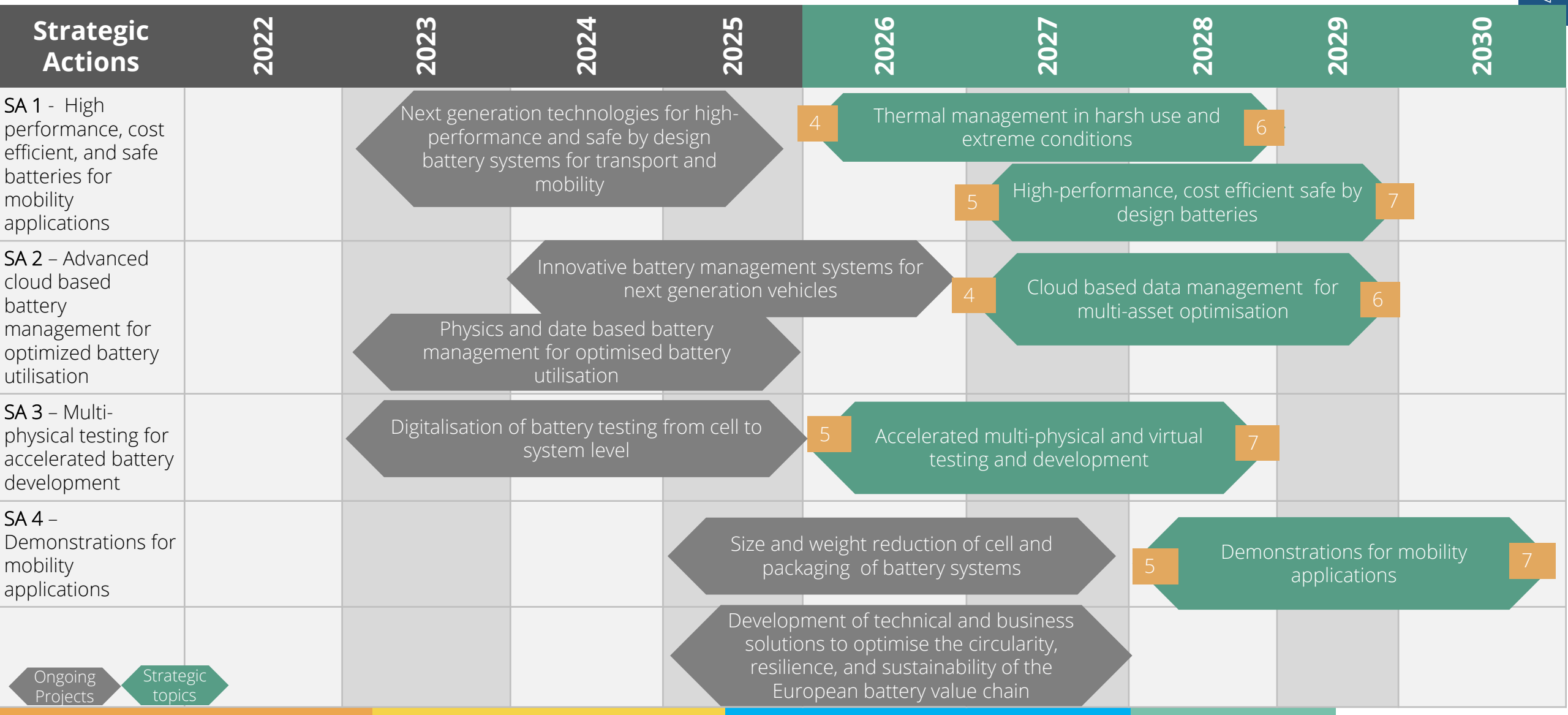
 *Cloud based data management for multi-asset optimisation*

 *Accelerated multi-physical and virtual testing and development*

 *Demonstrations for mobility applications*

Mobility Application

Timeline



Stationary Application

Strategic Topics



Development of advanced battery technologies for long duration energy storage



Demonstrations of advanced battery management systems



Innovative solutions to optimise battery utilisation


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Strategic Actions	2022	2023	2024	2025	2026	2027	2028	2029	2030
SA 1 - Long duration energy storage					Non-Li Sustainable Batteries with European Supply Chains for Stationary Storage		Development of advanced battery technologies for long duration energy storage		
SA 2 – Battery management for optimised battery utilisation					BMS and battery system design for stationary energy storage systems to improve interoperability and 2 nd life integration				
					Physics and data based battery management for optimised battery utilisation		Demonstrations of advanced battery management systems		
SA 3 – Integration of stationary storage systems to the grid					Hybrid electric energy storage solutions for grid support and charging infrastructure				
							Innovative solutions to optimise battery utilisation		

Recycling

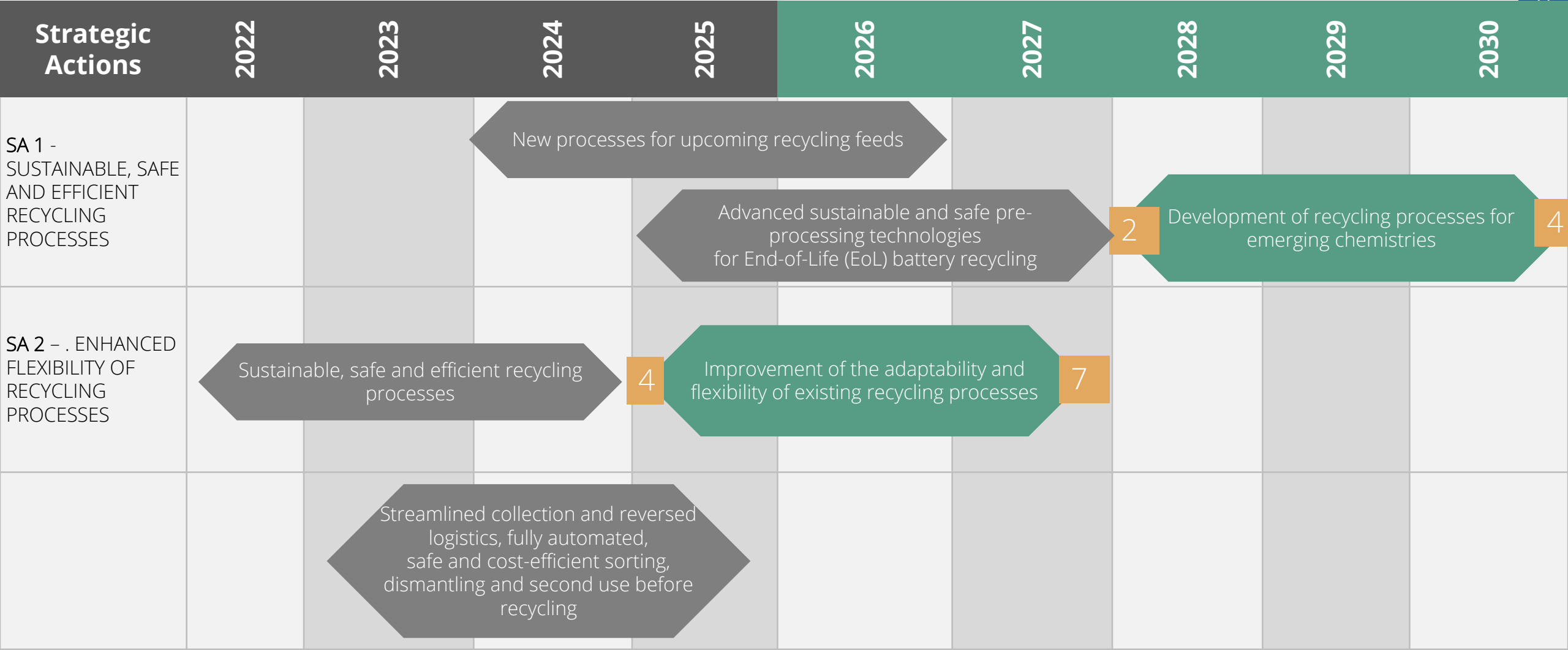
Strategic Topics

 Development of recycling processes for *emerging chemistries*

 Improvement of the adaptability and *flexibility of existing recycling processes*


Recycling

Timeline



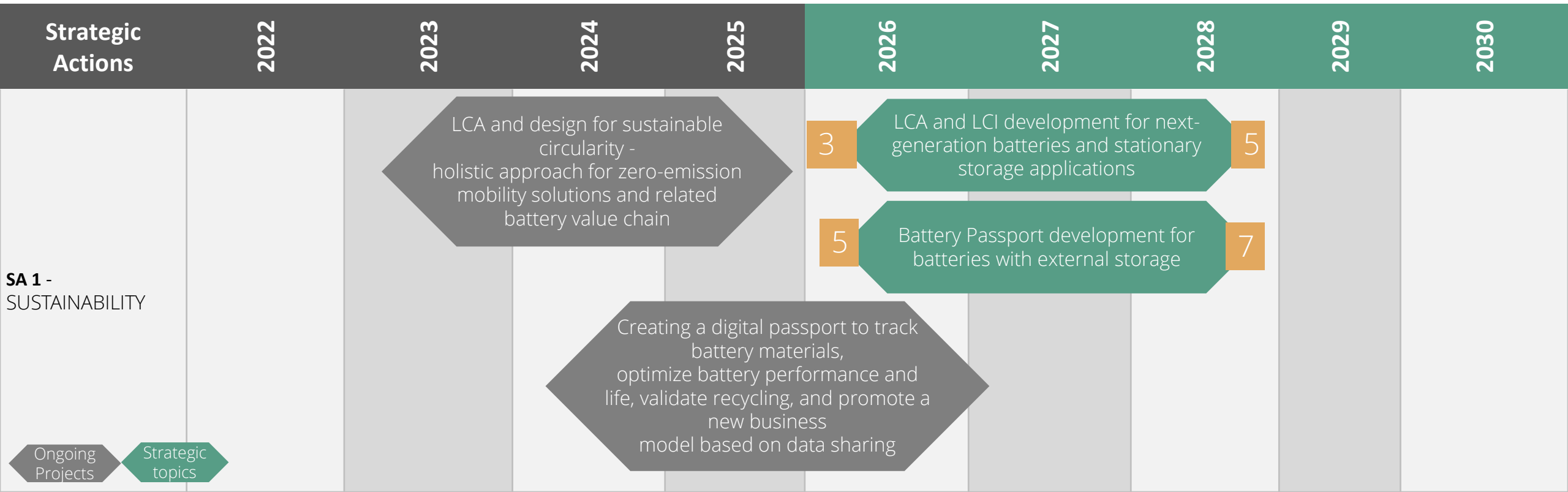
Cross-cutting Topics

Timeline

 *LCA and LCI development for next-generation batteries and stationary storage applications*

 *Battery Passport development for batteries with external storage*

   *Other possible topics: TBD*





BEPA Workplan '24

Wouter IJzermans

BEPA Executive Director

2024 Workplan **Must do's for 2024**

Development of the EU Work Programme '25 with WGs and TFs (Q1-Q2), including aligning our with other stakeholders

Projects follow-up

Monitoring and reporting duties (AA Plan, AA Report)

Co-organising BIDs

Organising BEPA events (general assembly, matchmaking etc.)

Attending events (TRA'24 and others)

On-going communication (website, newsletter, social media)

2024 Workplan Trends seen in 2023

In-person events get more popular

The number of projects to follow will grow from 22 to around 60

First projects come to an end, raising the importance of Innovation Uptake.

The EU Court of Auditors report will drive additional focus on information exchange

The BIDs will move focus more on showcasing results

The community needs to ensure position of battery research within Horizon Europe (2nd half of HE and next FP)

New website additions like matchmaking and member news will take more continuous efforts.

2024 Workplan Budget changes

Additional communication internship to help communications team with ongoing activities

Additional policy officer to assist with innovation uptake and project follow-up

The additions will allow for:

- More workshops on innovation uptake
- Support project clustering
- Better alignment/synergies with other Partnerships

2024 Workplan | Budget

BEPA 2024 budget		Option 1	
	Revenue		
MF	Membership Fees (current members)	895.500	
	Expenses		
SEC	SecGen & Staff	683.988	+Addition of 1 staff member for policy / intern for communication
CON	Consultancy	30.000	
COM	Communication	25.000	
ITE	IT	10.000	
REC	Meetings / Events	107.625	+ 5% inflation
TRA	Travel	20.000	
ACC	Accounting + audit + financial charges	33.000	
REN	Housing	53.500	+ office space for 2 people
STR	Staff training	10.000	
RES	Reserve	15.000	
	Total Expenditures	988.112,50	
	Revenue	895.500	
	Expenditures	941.613	
	Balance	-93.113	

Category	Proposed Membership Fee
Industry large	9.500 EUR
Industry intermediate	7.500 EUR
Industry medium	5.000 EUR
Industry SME	2.500 EUR
Industry Small	1.500 EUR
Research Large	4.000 EUR
Research Small	2.500 EUR
Associate	1.000 EUR

Proposed resolution submitted to the formal approval of the General Assembly:

“The General Assembly approves the 2024 budget proposed by the Executive Board and adopts the listed Membership Fees for 2024”

Any objections? Abstentions?

2024 Workplan Additional Activities Plan

Survey has been sent and the same as in 2022.

Deadline is **22 December 2023**





Final words

Michael Lippert
BEPA Chairman



THANK YOU!

BEPA
info@bepassociation.eu

BEPA
Batteries European
Partnership Association