

Battery Competence Center

Rutger van Poppel

Introduction to the Dutch battery ecosystem & strategy



The Battery Competence Center is the innovation program for companies, knowledge institutes and (public) organizations that want to work together to acquire knowledge and develop skills in the field of battery technology in the Netherlands. The Dutch high-tech, battery, transport and shipping industry join their forces in the Battery Competence Center.

The ecosystem is facilitated by a program organization that is active in:

- Ecosystem enhancement and business development
- Developing long-term roadmaps and collaboration projects
- Realizing and facilitating R&D- and test-facilities

Applications



Governance:

- Steering Group
- Operational Team
- Project Groups

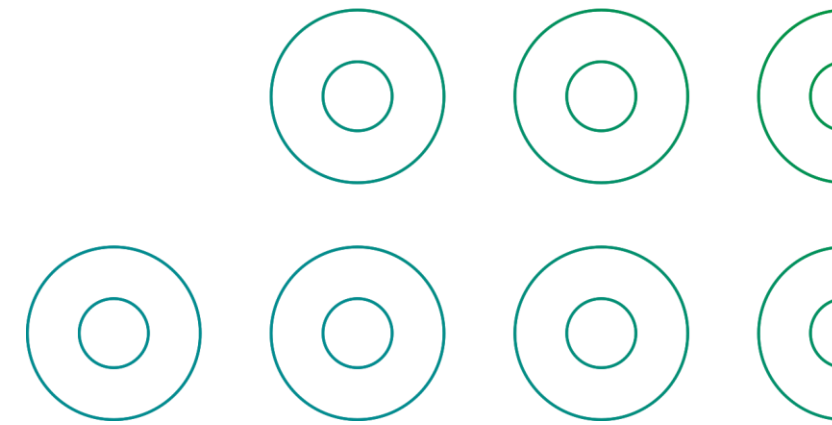
Facilitators



Ecosystem



And more...



Why do we need this?



Strong Automotive en Maritime Sector



And other upcoming and niche applications



 **PAL-V**




CLAMHAN AVIATION




U-Boat Worx



 **INMOTION**
CHARGING AHEAD



No gigafactories, but strong right-to-play

- Battery components: BMS, electronics
- Battery cells: solid state batteries - 3D thin-film structure
- Battery materials: silicon anodes, lithium sulfur
- Production equipment & processes: sALD, PECVD, etc.



1 South-Holland / Rotterdam

Technology & Competences Maritime, logistics, recycling, material research, cathodes, solid state electrolytes

Key players: LeydenJar, Damen Shipyards, TU Delft, Port of Rotterdam, TES

2 East-Netherlands

Technology & Competences Energy, High Tech Systems, Battery Testing & Safety, Charging Infrastructure

Key players: Elestor, University of Twente, Battery Safety Lab, DNG, KEMA Labs

3 Brainport Eindhoven

Technology & Competences Heavy Duty Automotive, modules & packs, sALD, PECVD, thin-film engineering, 3D solid state

Key players: DAF Trucks, LeydenJar, TU/e, VDL Groep, ELEO, NXP, LionVolt, TNO/Holst Centre


4 Limburg

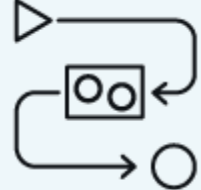
Technology & Competences Automotive, contract manufacturing, production processes, chemicals


Key players: VDL Nedcar, DSM, Universiteit Maastricht




Organizing the ecosystem and developing a common battery strategy

 *Inkoop li-ion
batterijcellen*

3. Nieuwe
batterijmaterialen
en productieprocessen 

2. Recycling 

1. Modules
en pakketten 

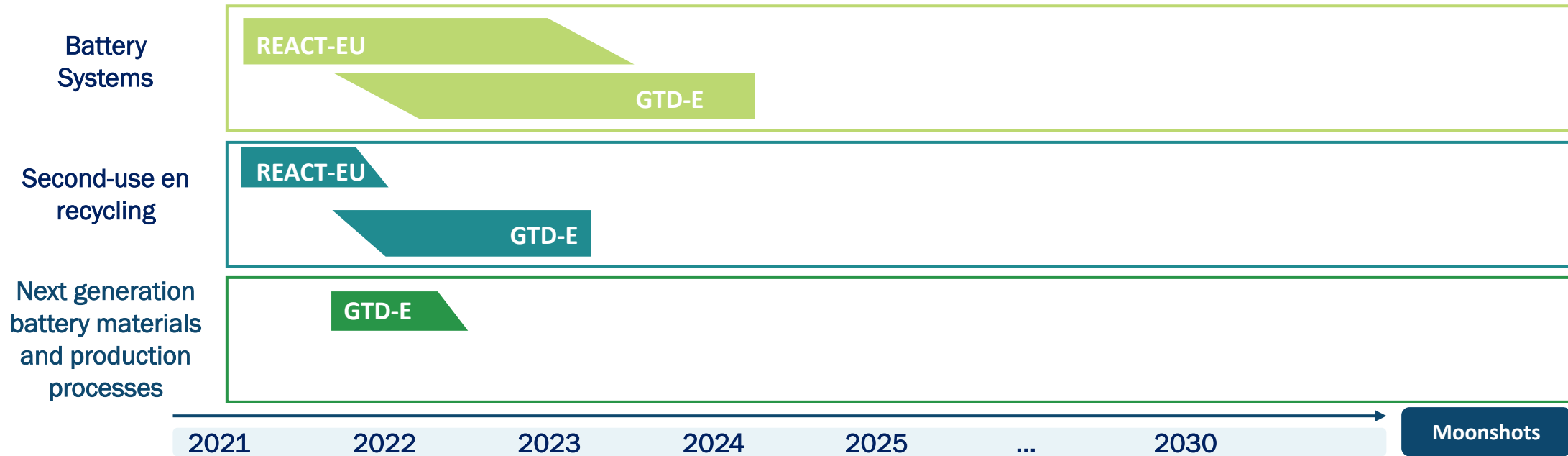
2. Second-use  1. Systeem-
integratie 

Strategie

Ambition

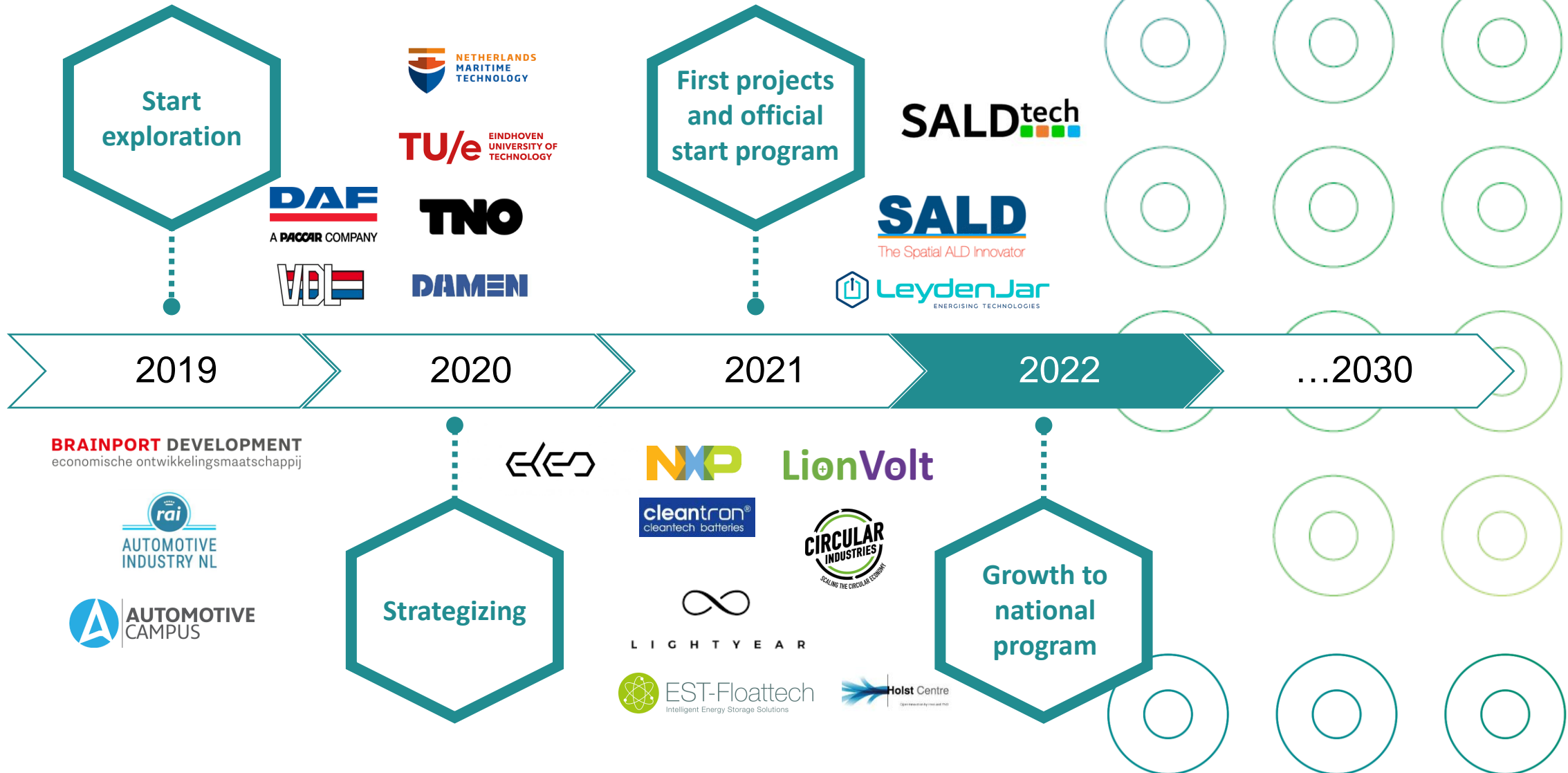
- More independence in the supply chain
- Creation of added value through local development and production of battery modules and packs
- Increase the circularity through technological development and explore recycling capacity
- Local development and production on industrial scale of next generation battery materials and production processes

Roadmapping and projects



What's next?

Timeline





Thank you for your attention

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Or visit us on:

www.batterycompetencecenter.nl

[LinkedIn](#)