




CELCIBUS

CATALYSE THE FUTURE

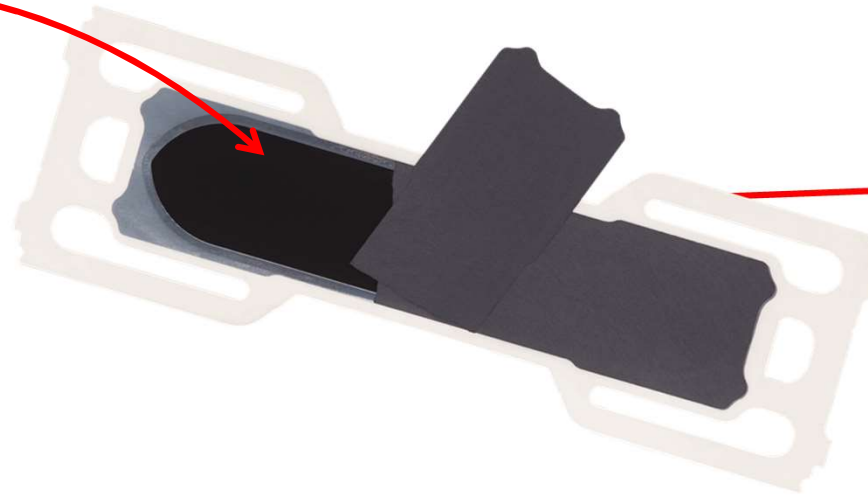
info@celcibus.com

Patric Stafshede, CEO
Cleantech Scandinavia, Malmö
November, 2021

The heart of the fuel cell stack is the catalyst



Catalyst powder

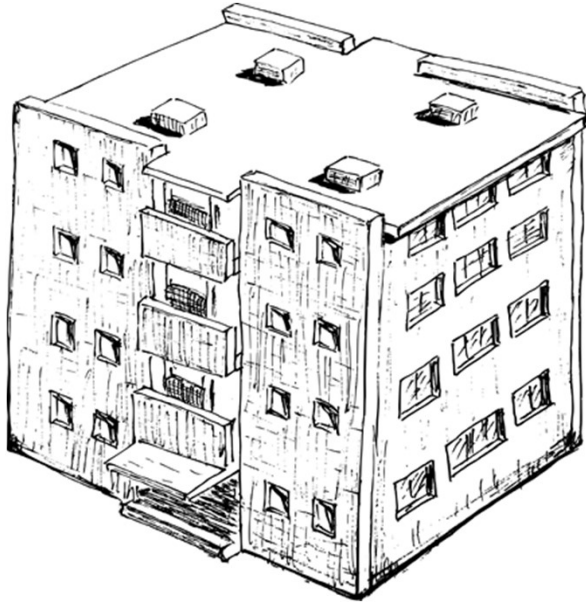


Membrane electrode assembly (MEA)



Fuel cell stack

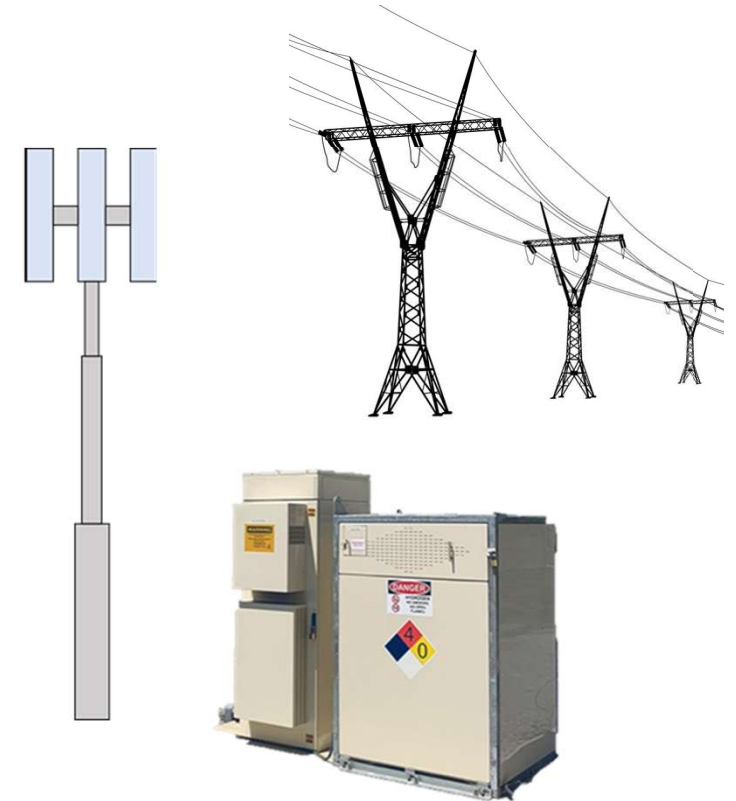
Fuel cells can supply electricity and heat for different purposes



Combined heat and power
needs for buildings

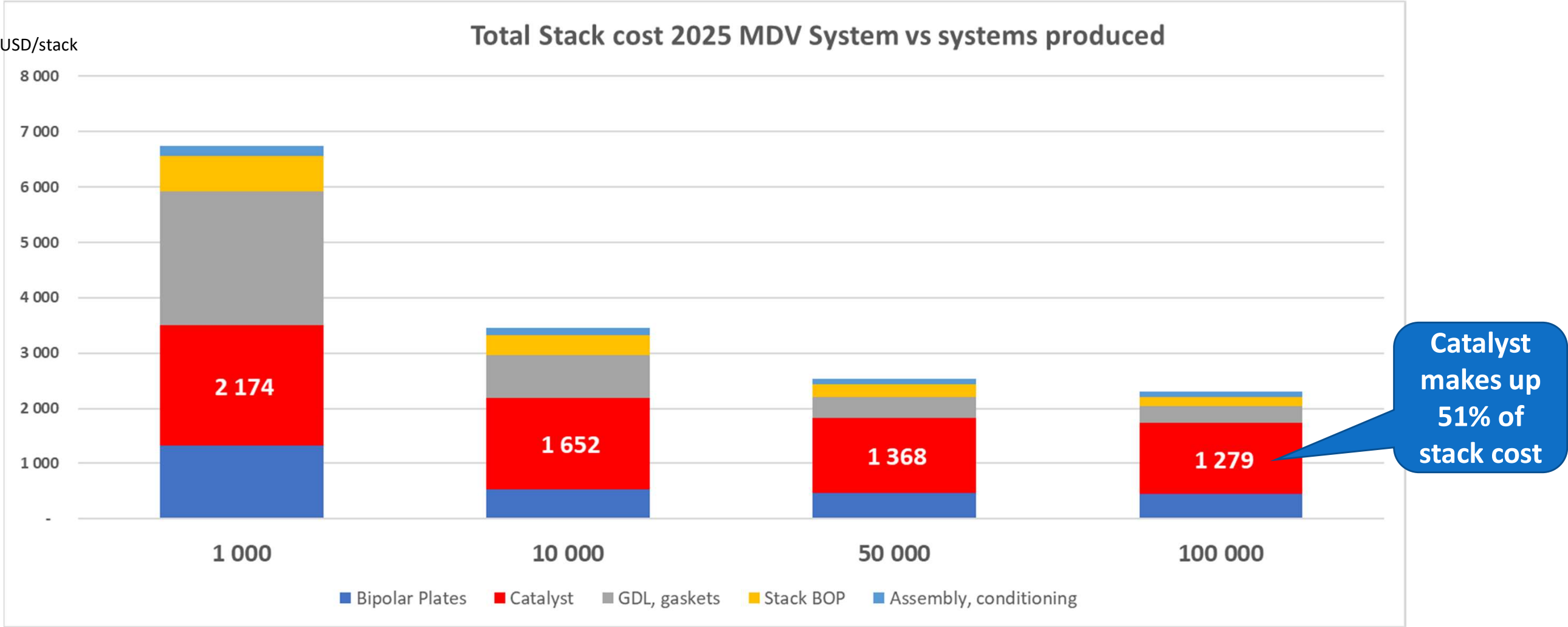


Transportation industry

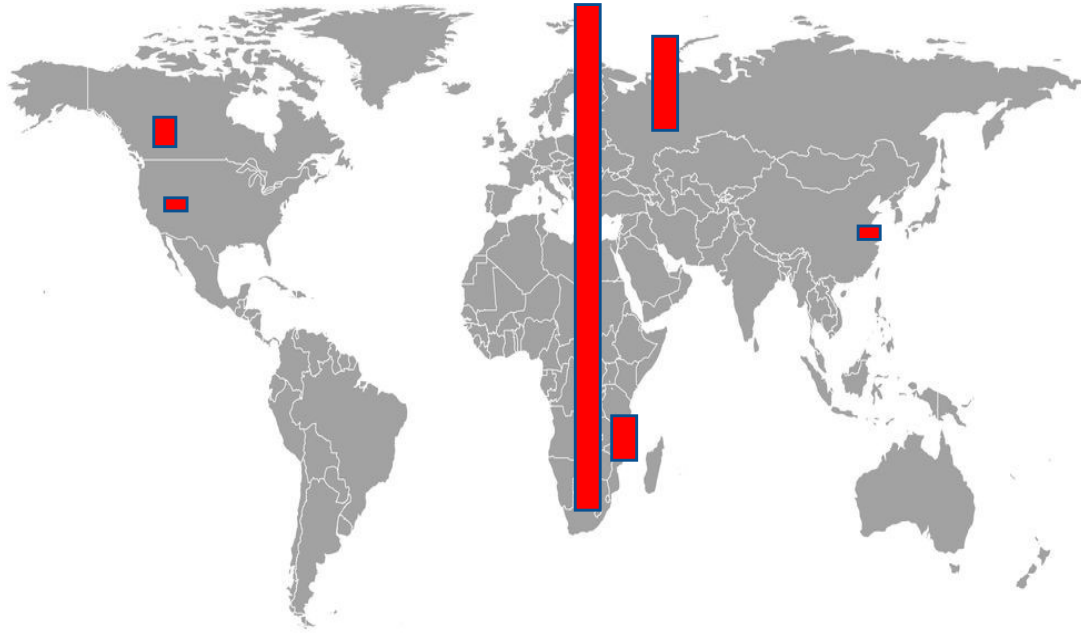


Back-up and peak shaving

Economies of scale does not apply to the fuel cell catalyst



Price and access to critical raw material depend on global supply chains, and mining conditions



Concentrated platinum supply

More than 90% from South Africa,
Zimbabwe and Russia

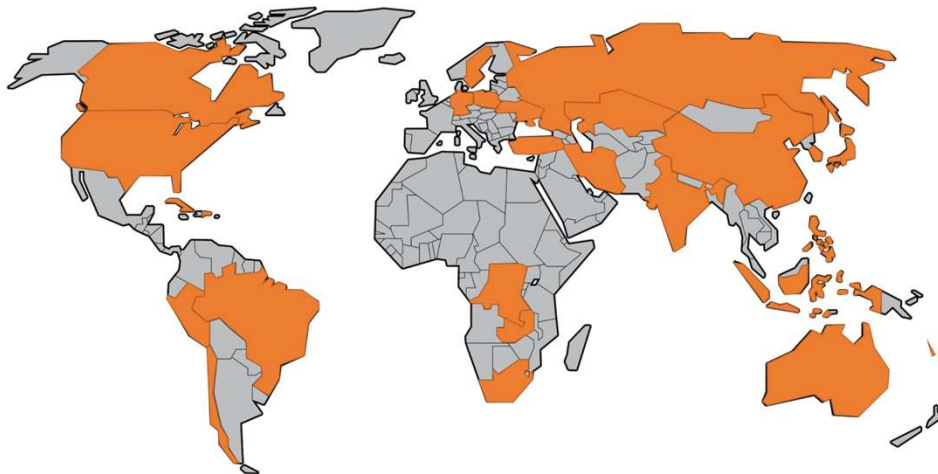
... these growing markets for critical minerals could be subject to price volatility, geopolitical influence and even disruptions to supply.

-Dr. Fatih Birol,
Executive Director,
IEA May, 2021

Europe's transition to climate neutrality could replace today's reliance on fossil fuels with one on raw materials.

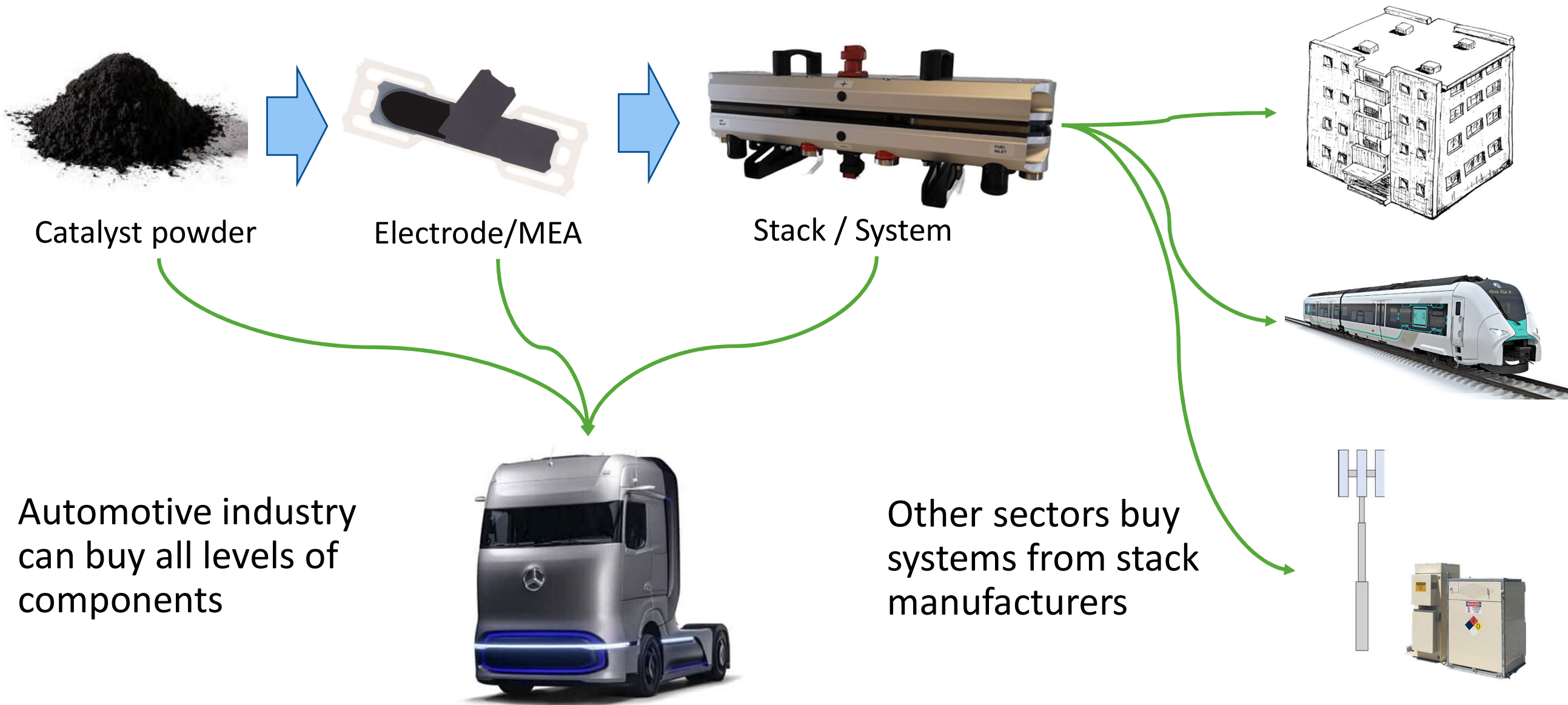
-EU Commission
communication
Sep, 2020

Celcibus' catalyst eliminates the need for platinum in the cathode

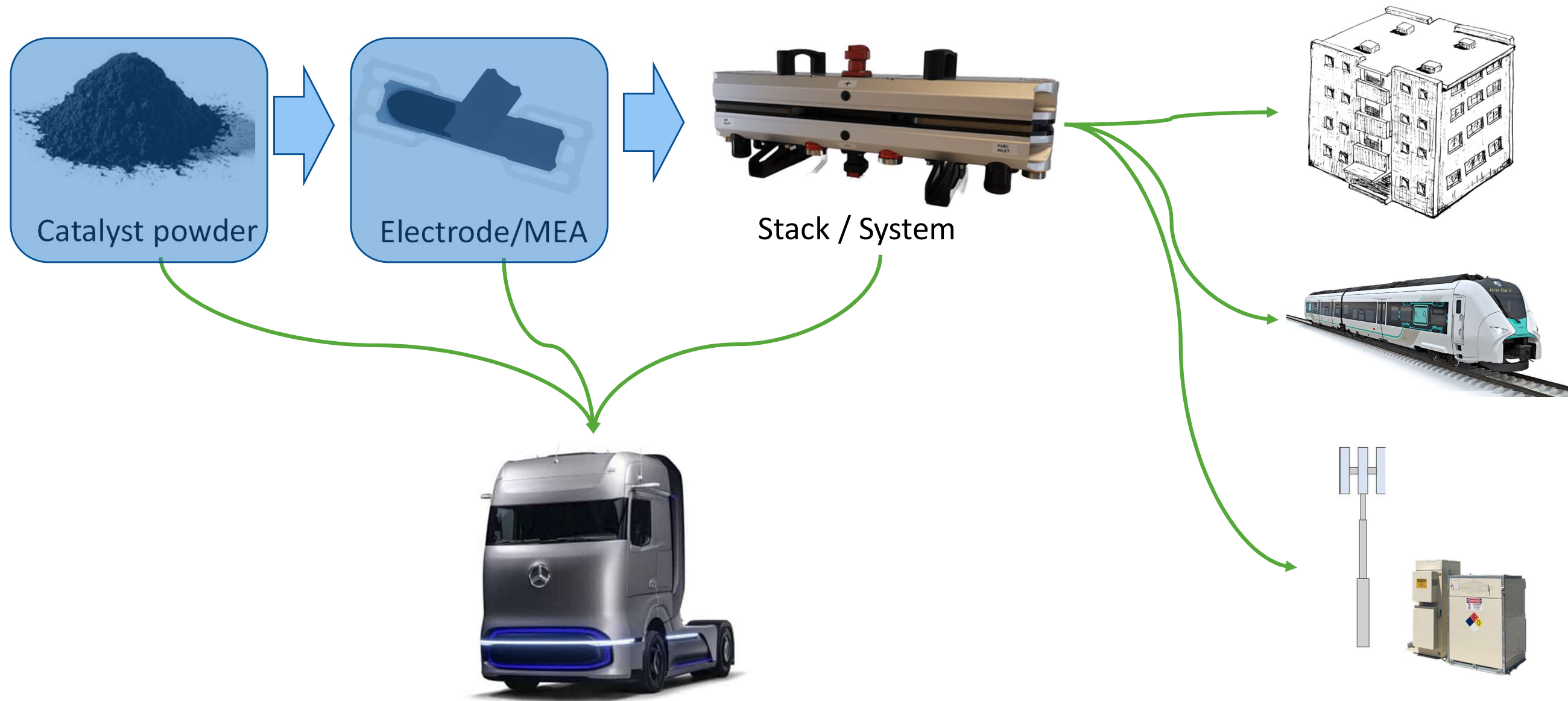


- Patented recipe and applications
- Biology inspired active site
 - increased activity
 - excellent selectivity
- Raw material available and sustainable
 - Up to 30% lower cost on stack level

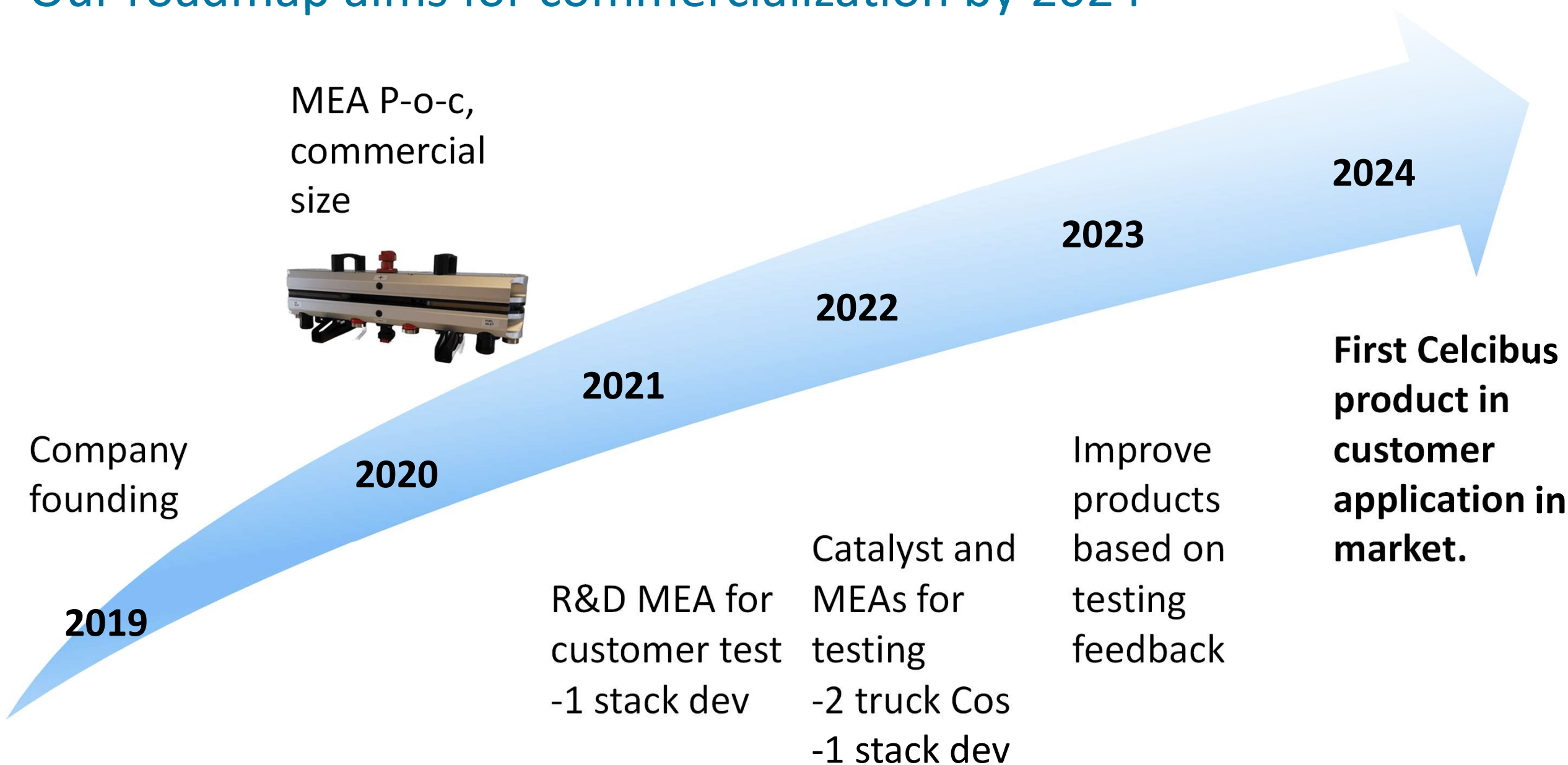
Different market segments have different interests



With Powder and MEA as products, Celcibus can serve all segments



Our roadmap aims for commercialization by 2024



Committed and competent team

Board:



Torkel Elgh, Chairman

Industrialist and hydrogen devotee

- Chairman of AlfaWall AB and Perimed AB
- Head of global logistics at Electrolux AB (prev.)
- VP and head of logistics Wallenius Wilhelmsen (prev.)

Sten Persson

Serial entrepreneur and energy start-up developer

Erik Strömqvist

Industrialist and process scale-up

Anders Palmqvist (co-founder, see right box)

Executive management and Partner Mgmt:



Patric Stafshede, CEO

Business Dev/Proj mgmt

- MSc ChemEng, MBA
- Commercial ops, utility



Dr. Sara Erkfeldt, Proj Mgr

Partner management

- PhD Materials Science
- Global product dev, Volvo Trucks

Technology Development leadership:



Prof. Anders Palmqvist, founder

Catalyst specialist, inventor

- Professor, Materials Chemistry
- VP Research at Chalmers



Dr. Lisa Palmqvist, founder

Deposition (printing) expert

- PhD, Materials Science
- Colloidal processing R&D

Research and Development team:



Dr. Jessica Hernandez

- PhD, Chemical Sciences // Synthesis studies in Marseilles



Dr. Walter Rosas

- PhD, Materials Science – Platinum-free fc catalyst



Dr. Tae-Hyun Kim (in Korea)

- PhD, Fuel cell modeling and testing



Parasto Moameni

- MSc, Material Chemistry // Prod dev., Volvo Trucks



Dr. Adriano Gomes (Jan '22)

- Ind. PhD with AkzoNobel // Research eng. Electrochem. Nouryon

Financing needed for reaching viability milestones

New equity issuance to cover through September, 2022

- 800 kEUR @ 3.5 MEUR pre-money valuation

Viability milestones for execution no later than Q2, 2022

- First sale of catalyst powder for testing by global automotive OEM in Asia
- First sale of MEA for testing by global truck OEM in Europe
- Verification of product performance development in second stack by PowerCell
- First test of MEA by European stack developer of stationary applications
- All process steps from catalyst synthesis to MEA prototype proven at own facility

Contact information

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