

The background of the slide is a photograph of a laboratory. A man in a blue lab coat is leaning over a piece of equipment, possibly a hydrogen cell, and working with a pipette. A robotic arm is visible in the foreground. The scene is brightly lit with overhead fluorescent lights.

climate change

energy dependence

A green circular icon containing the chemical formula "H₂" is located in the bottom left corner of the laboratory image.

H₂

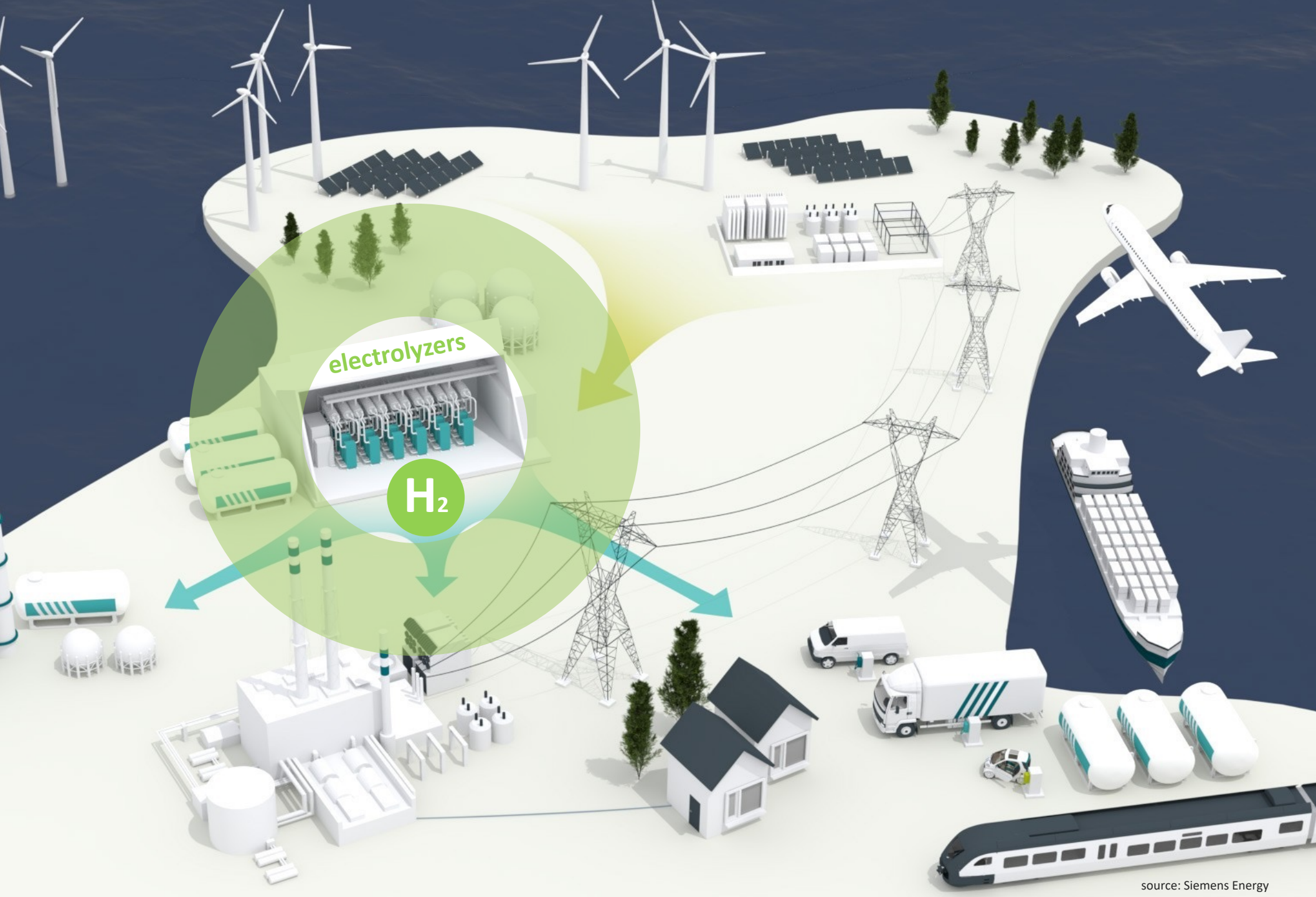
**empowering the
green hydrogen
revolution.**

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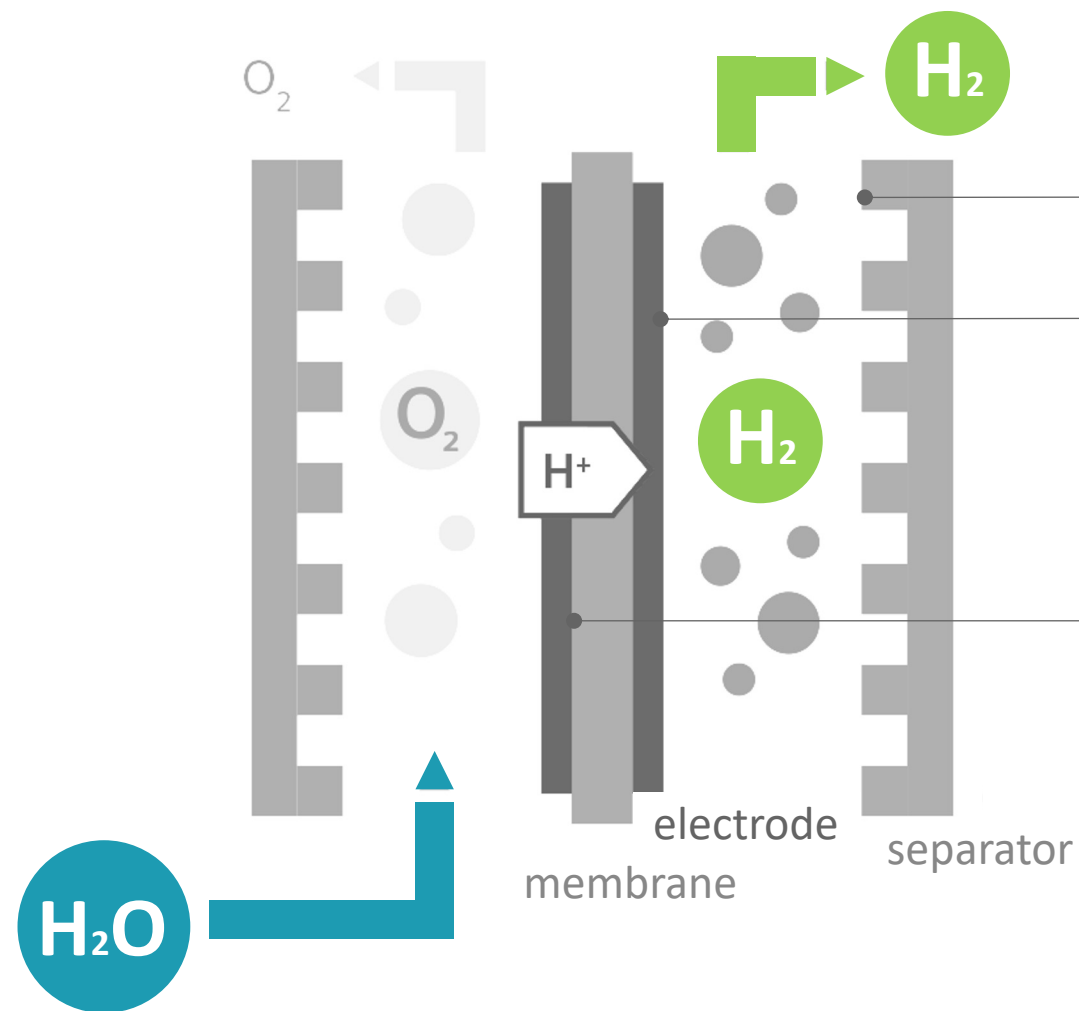
Fall 2023

fossil free economy

Green Hydrogen is the last missing element of fossil free economy. It is produced from wind or solar energy and water inside electrolyzers. This green source of energy can be used in households, transport and industry at any point of time.



two main problems



corrosion of components



high cost of catalysts



Problems inside an electrolyzer stack:

1. Hydrogen is very aggressive and leads to corrosion. So electrolyzers quickly become unreliable and require high maintenance costs.

2. Catalytic materials like Pt and Ir are very expensive. Moreover, these rare earth metals have limited availability.

our R&D center

In our R&D center we create new materials in form of nano-coatings to protect hydrogen system components against corrosion and replace the need for rare earth metals. We have also built the most powerful nano coating process.

10x faster
nano coating
process



our solution

1. we develop new materials

unique material recipes

Opposite to our competitors, we can use any material from periodic table and any material combination.

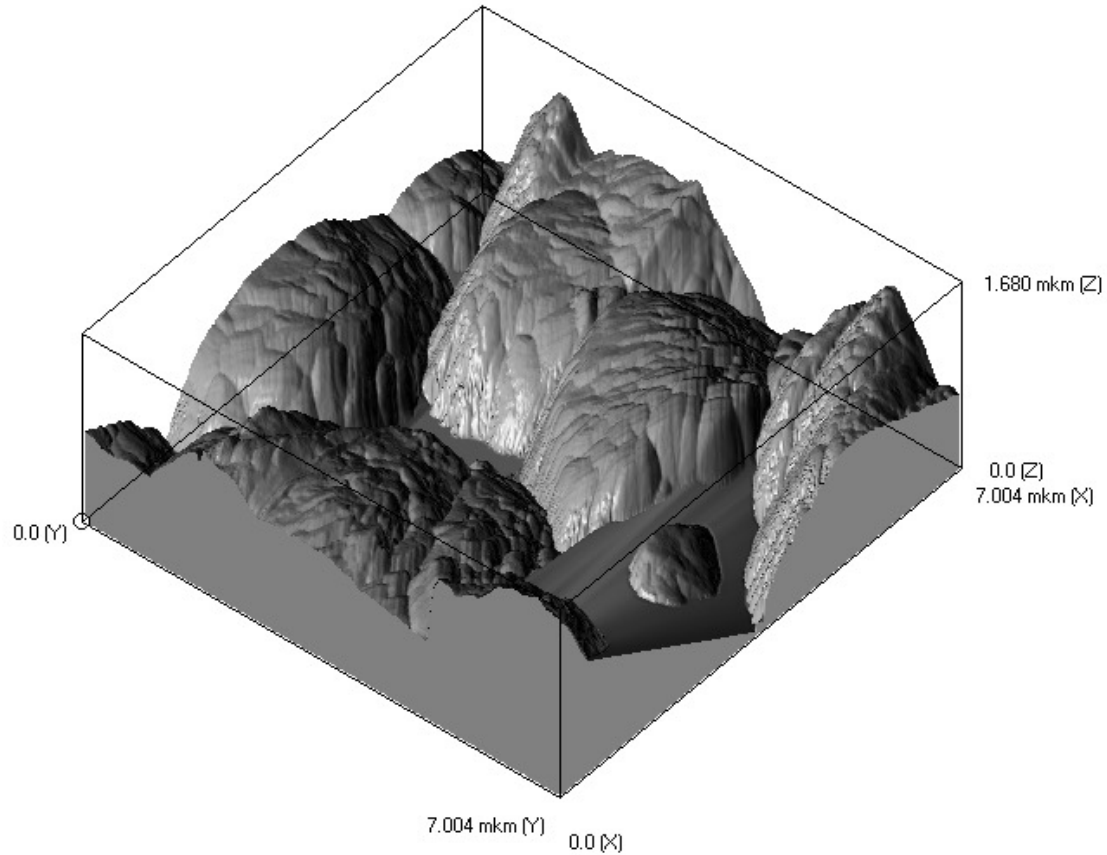
2. we coat components

2x less corrosion

30-50% lower cost

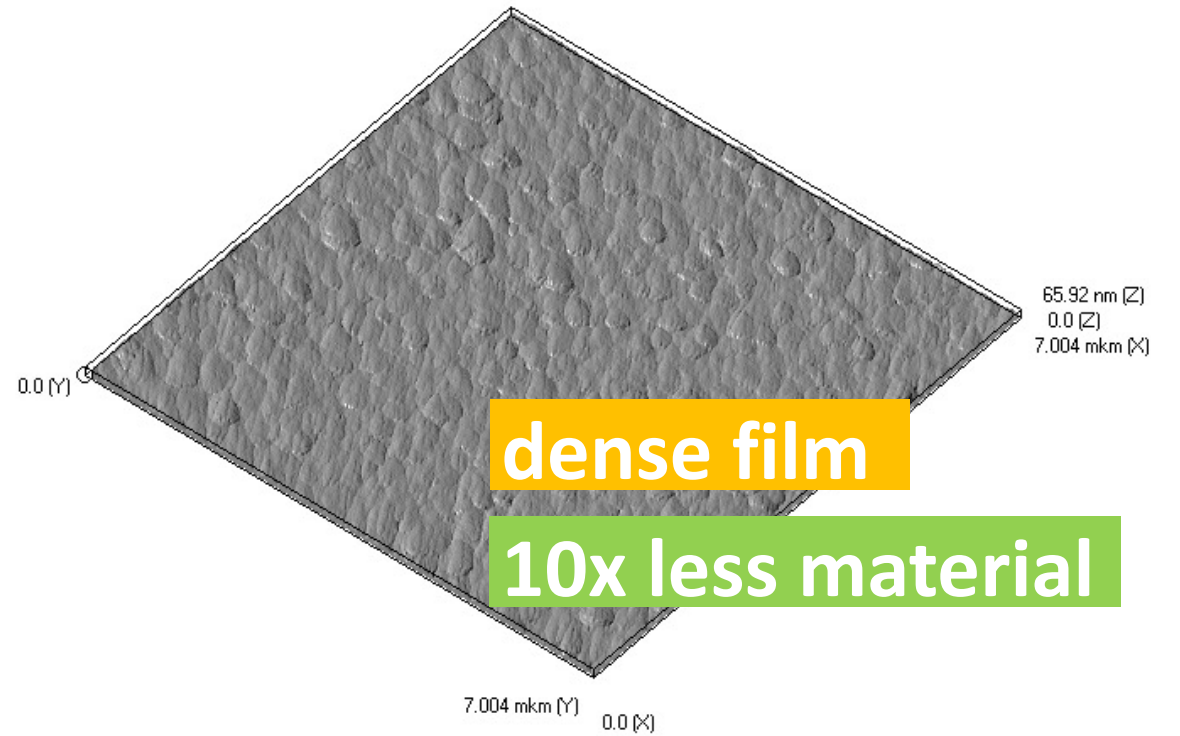
how it works

current coatings



vs

Naco coating



IP protection

magnetic materials



patent application Nr.
PCT/IB2021/061821

fast-speed magnetron



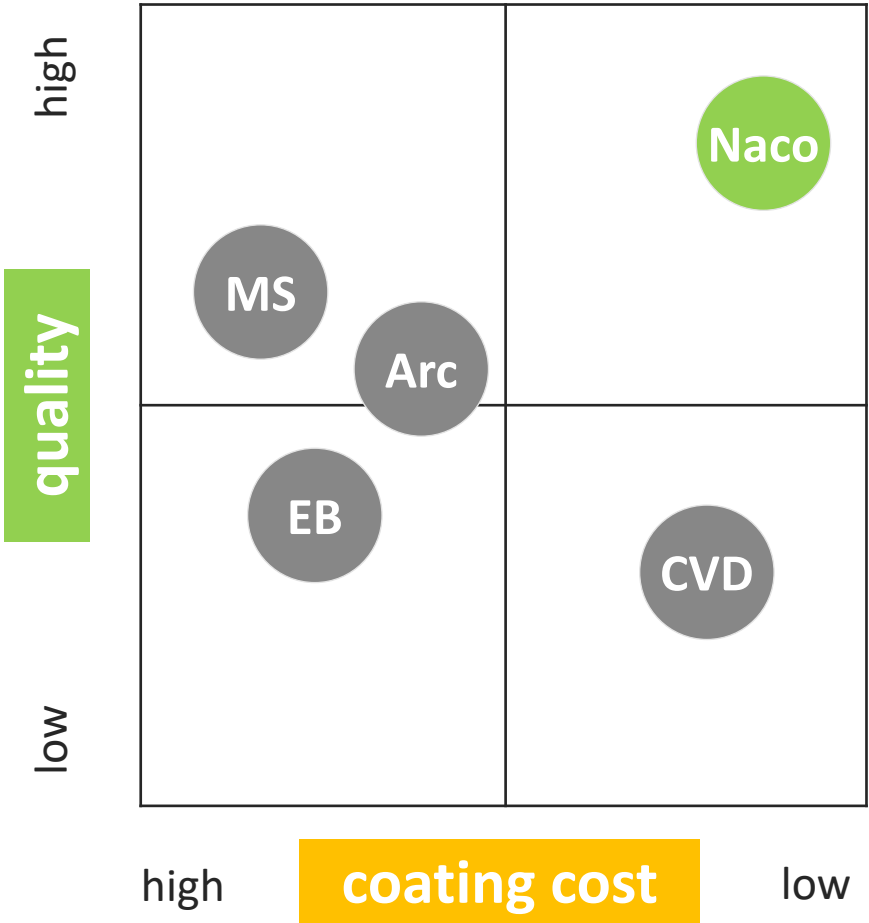
patent application Nr.
iZ220719-MV

catalytic nano-coating



patent application under
development

competition



	Naco	MS	EB	Arc	CVD
coating speed	●	●	●	●	●
coating cost	●	●	●	●	●
CAPEX	●	●	●	●	●
energy cost	●	●	●	●	●
versatility	●	●	●	●	●
quality	●	●	●	●	●
ecology	●	●	●	●	●

Most popular coatings right now are chemical ones or CVD. They are cheap, but quality is poor for hydrogen applications. Nano coating alternatives are better than chemical ones, but still have lower quality and much more expensive than our solutions. Adding our high productivity, we have achieved strong competitive position comparing to other methods.

core team



Prof. Valery Mitin

Tech author, 50y in nano-coatings



Aleksandrs Parfinovičs

CEO, made an exit to Schaeffler Group



Eduards Parfinovičs

COO, built 7 factories as co-founder



Raivis Ņikitins

CCO, well-connected salesman



Pāvels Nazarovs

CTO, patented new technologies



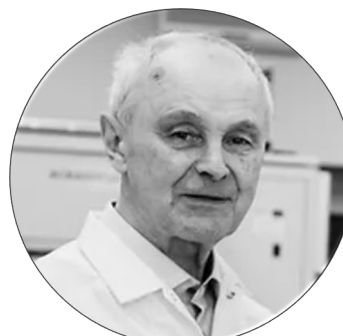
Andris Krasovskis

CFO, experienced financial professional



Anna Blotnytska

Chemical engineer, quality standards



Vladimirs Kovaļenko

PVD Expert, 35y of inventing coatings



Vladimirs Lenčevskis

Design engineer, developed inlines



Jānis Židellūns

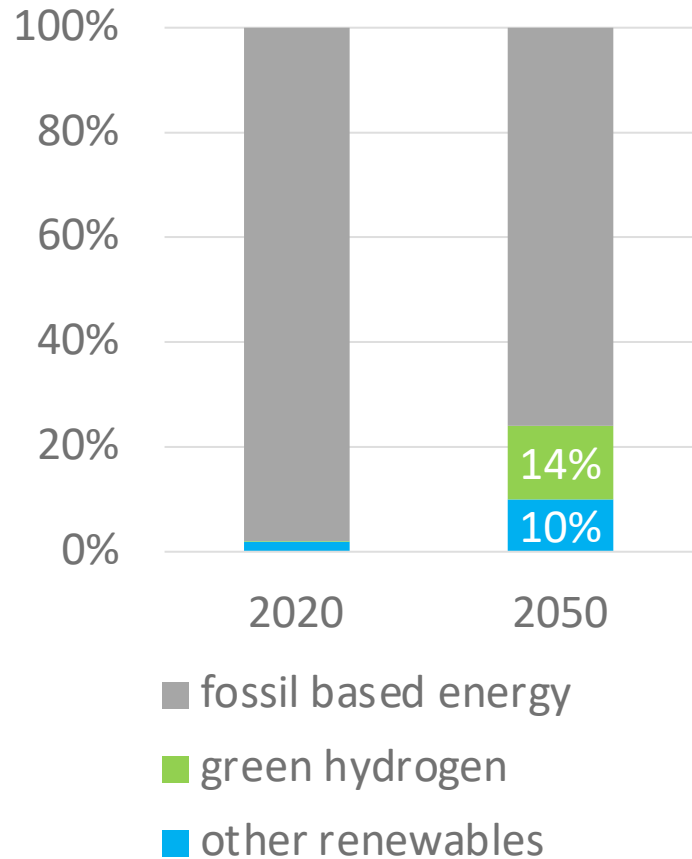
Coating researcher, 10 years of experience

market opportunities



market size

green hydrogen share

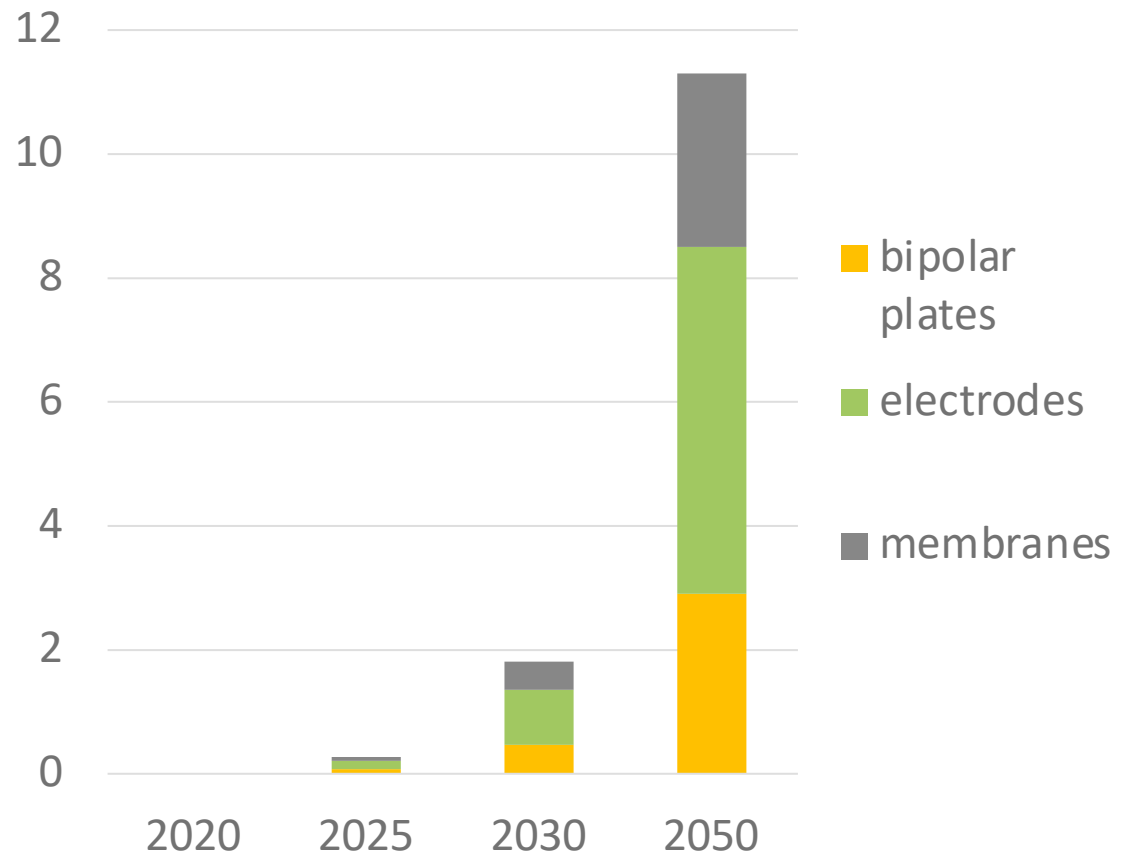


650x
growth 2020-30

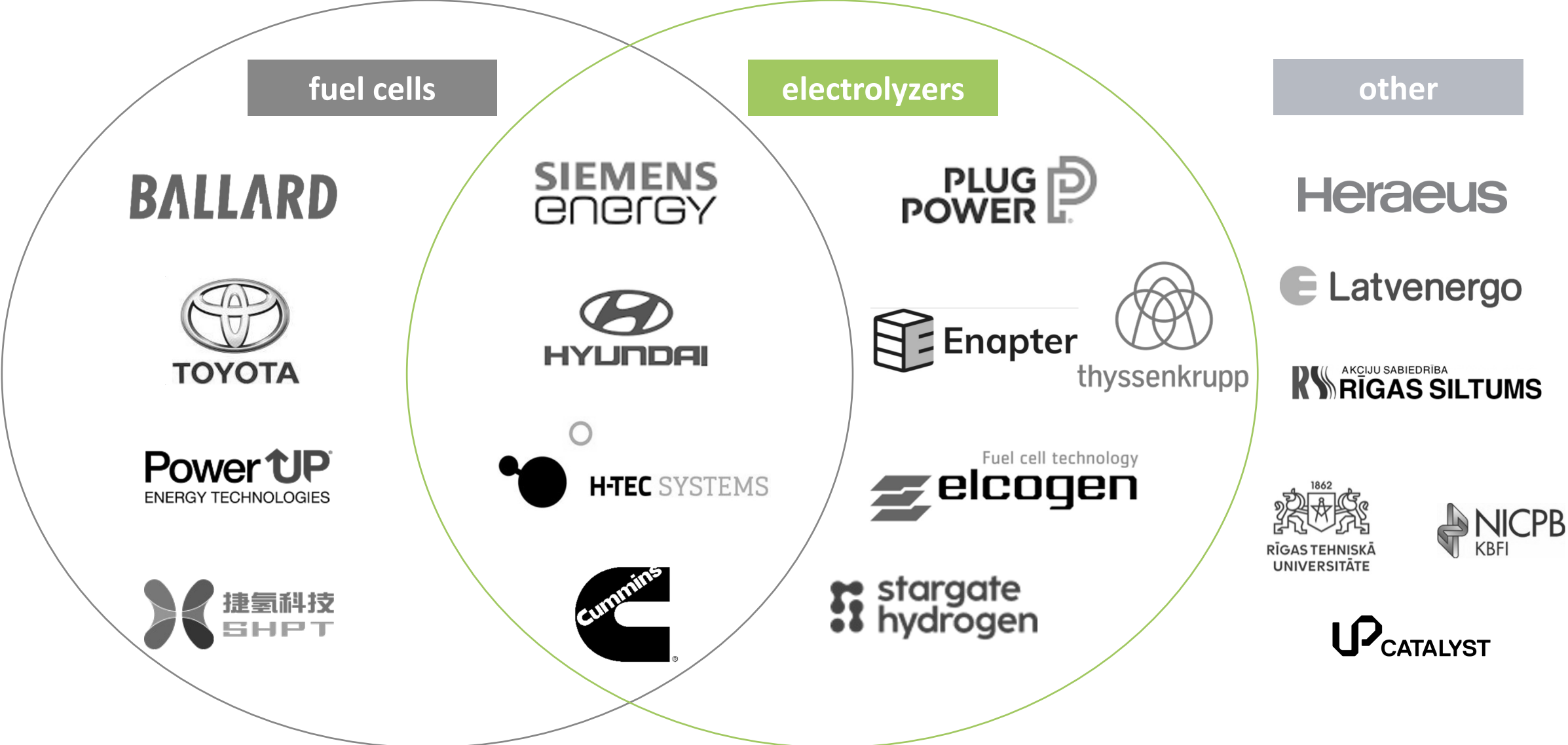
€10T
market by 2050

source: Goldman Sachs

electrolyzer stack components in EU, billion pcs.



client traction



fuel cells

electrolyzers

other

BALLARD



TOYOTA

PowerUP
ENERGY TECHNOLOGIES



捷氢科技
SHPT

SIEMENS
energy



HYUNDAI



H-TEC SYSTEMS



Cummins

PLUG
POWER



Enapter



thyssenkrupp

Fuel cell technology
elcogen

stargate
hydrogen

Heraeus

Latvenergo

RĪGAS SILTUMS
AKCIJU SABIEDRĪBA



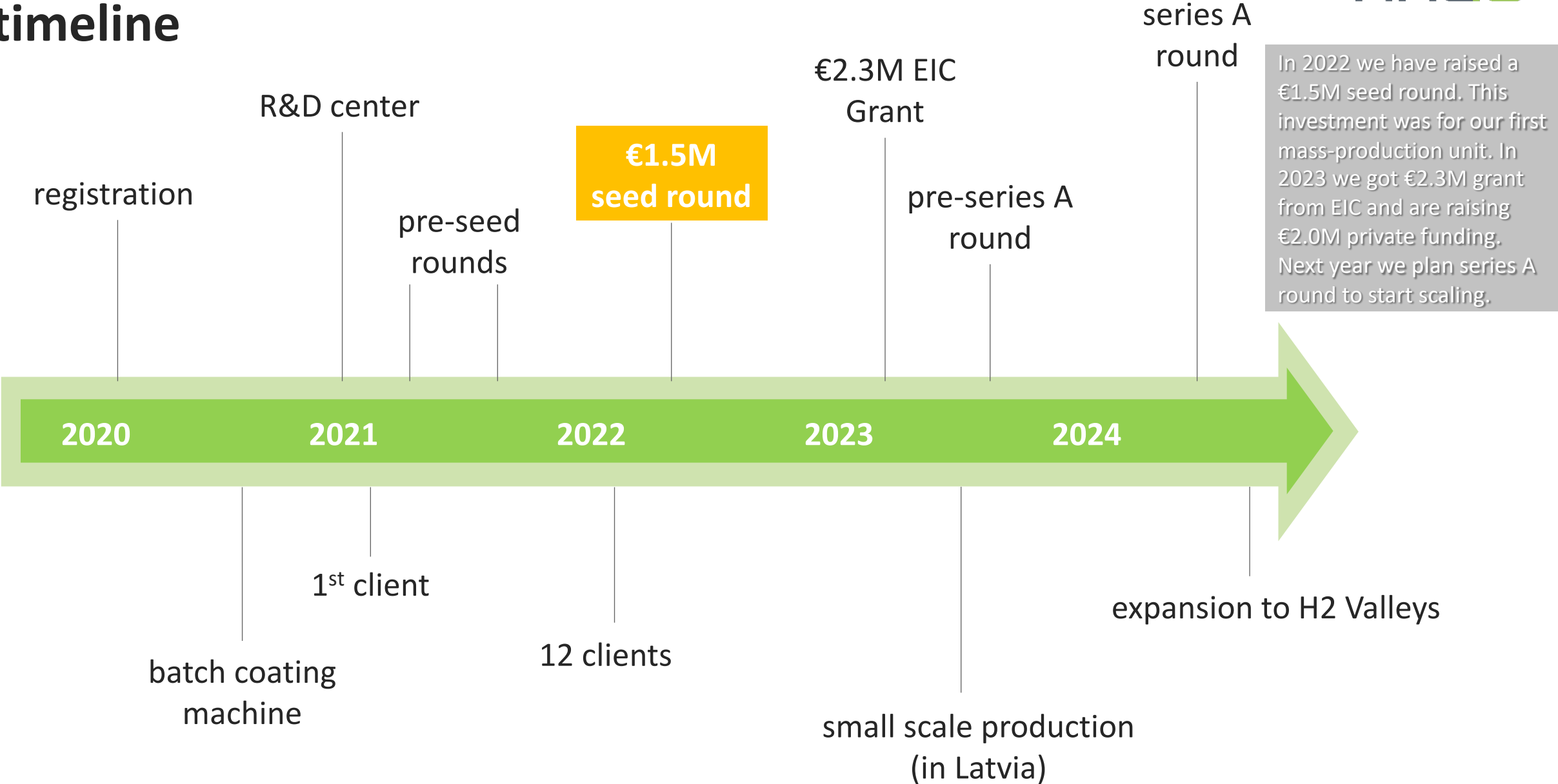
RĪGAS TEHNISKĀ
UNIVERSITĀTE



NICPB
KBFI

UP CATALYST

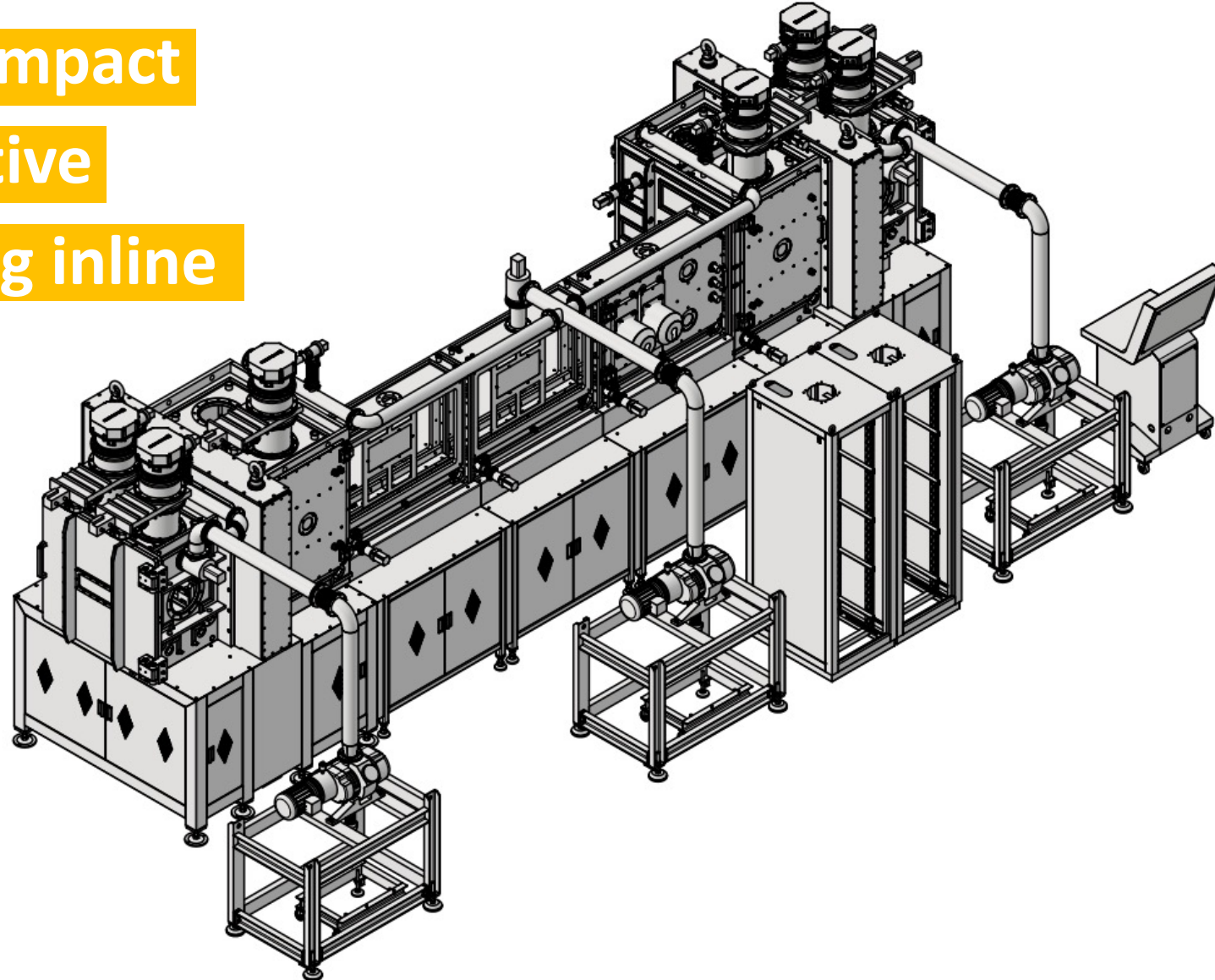
timeline



In 2022 we have raised a €1.5M seed round. This investment was for our first mass-production unit. In 2023 we got €2.3M grant from EIC and are raising €2.0M private funding. Next year we plan series A round to start scaling.

nacoline 1

the most compact
and productive
nano-coating inline



8x3m

dimensions

250k

components/year

business model: coating production

suppliers

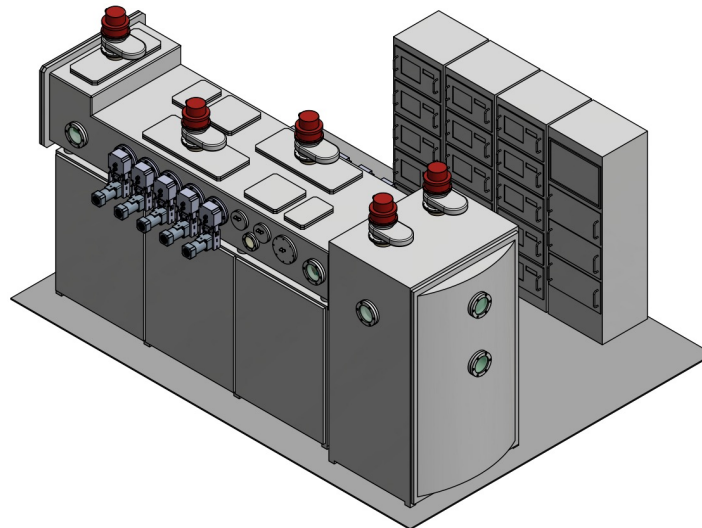


Naco



clients

uncoated components

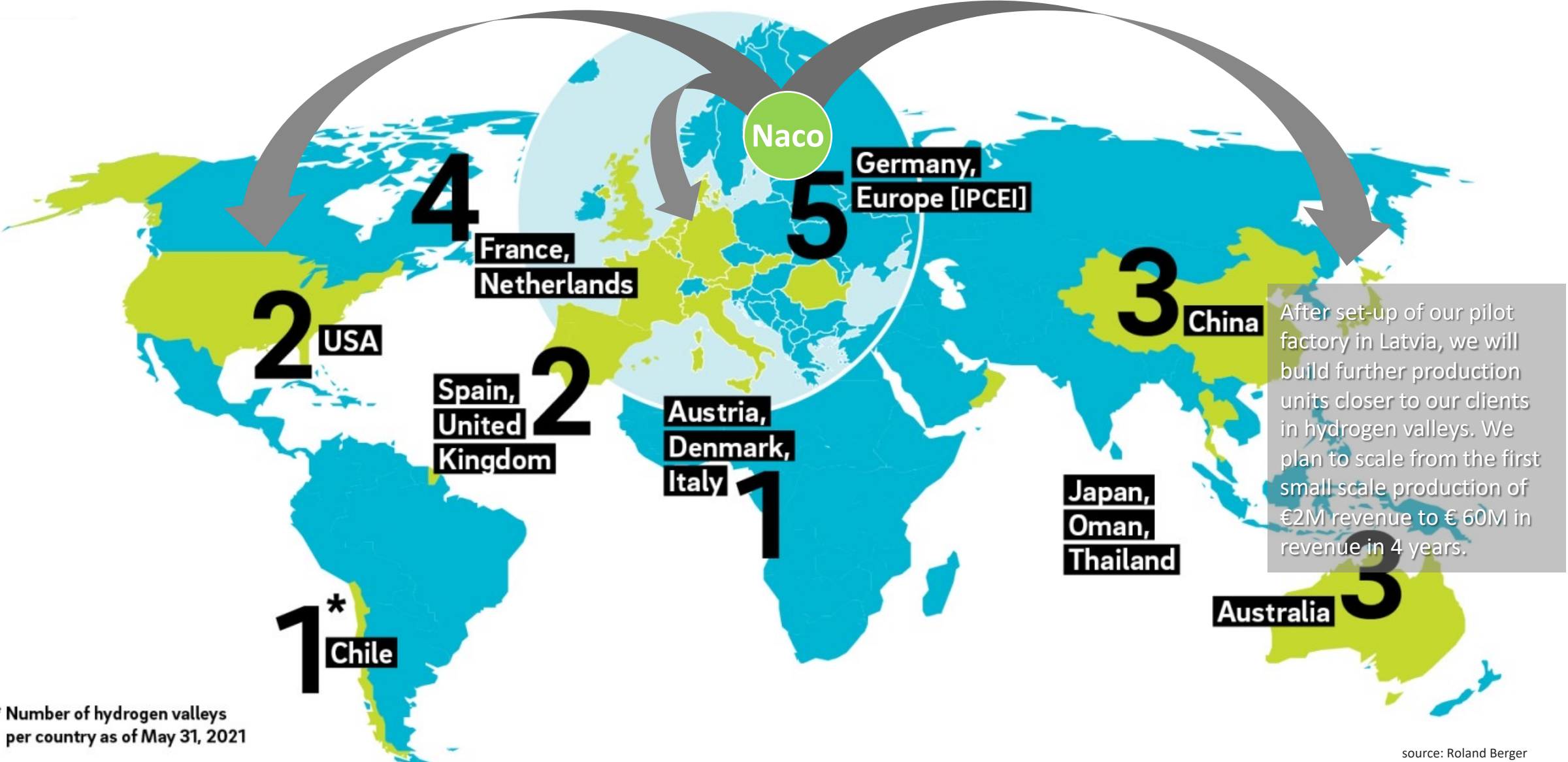


stack assembly



We will start mass production in 2023. Uncoated components will be delivered to us from suppliers. We will then coat these components using an inline coating machine. Coated parts will be shipped to our customers to be assembled into electrolyzer or fuel cell stacks.

scaling: next factories at H2 valleys

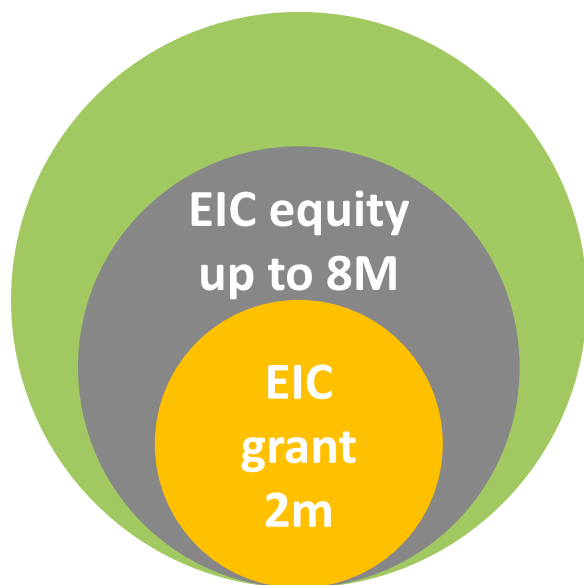


* Number of hydrogen valleys per country as of May 31, 2021

investment for scaling

funding needed €

20m



investment form

- pre series A (€2.0)M in 2023 and series A (€8.0)M in 2024
- 2-5 investors
- equity

The investment will be used to:

- complete development of our breakthrough product i.e. nano-coated membrane;
- build the first large scale production in Poland.

current shareholders

- 6 founders
- €0.1m pre-seed
- €1.5m seed

the Untitled.
VENTURES



NEW ENERGY TECHNOLOGY



Buildit
Accelerator of Things

naco

are You interested
to join the **green**
hydrogen
revolution?

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