



The New Age of Portable Fuel Cells

Estonian Hydrogen Day 2024
Tartu, 18.10.2024



spin-off
company



BUSINESS
INCUBATION
CENTRE



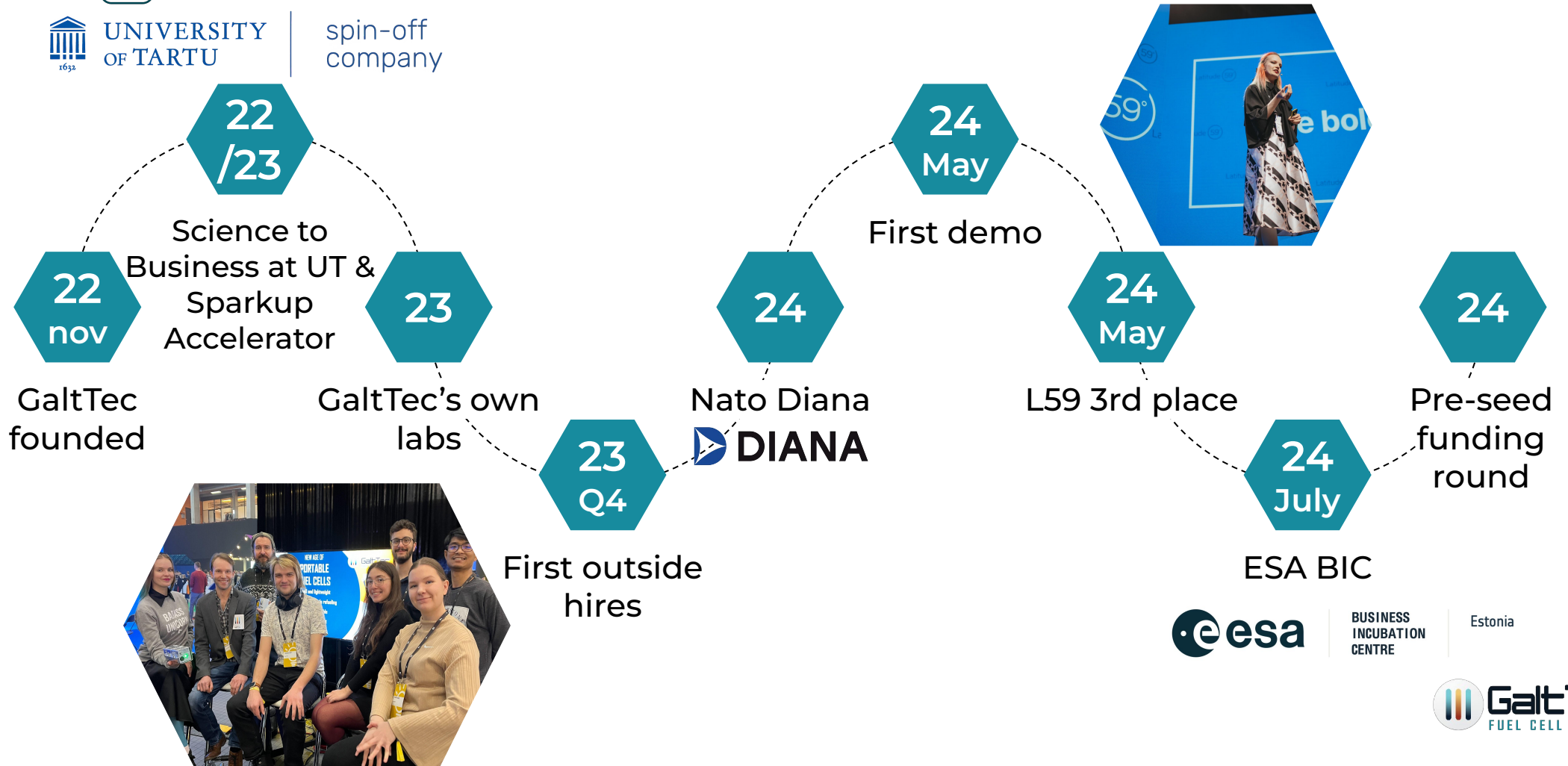
Estonian Defence
and Aerospace
Industry Association

History of GaltTec



UNIVERSITY OF TARTU

spin-off company

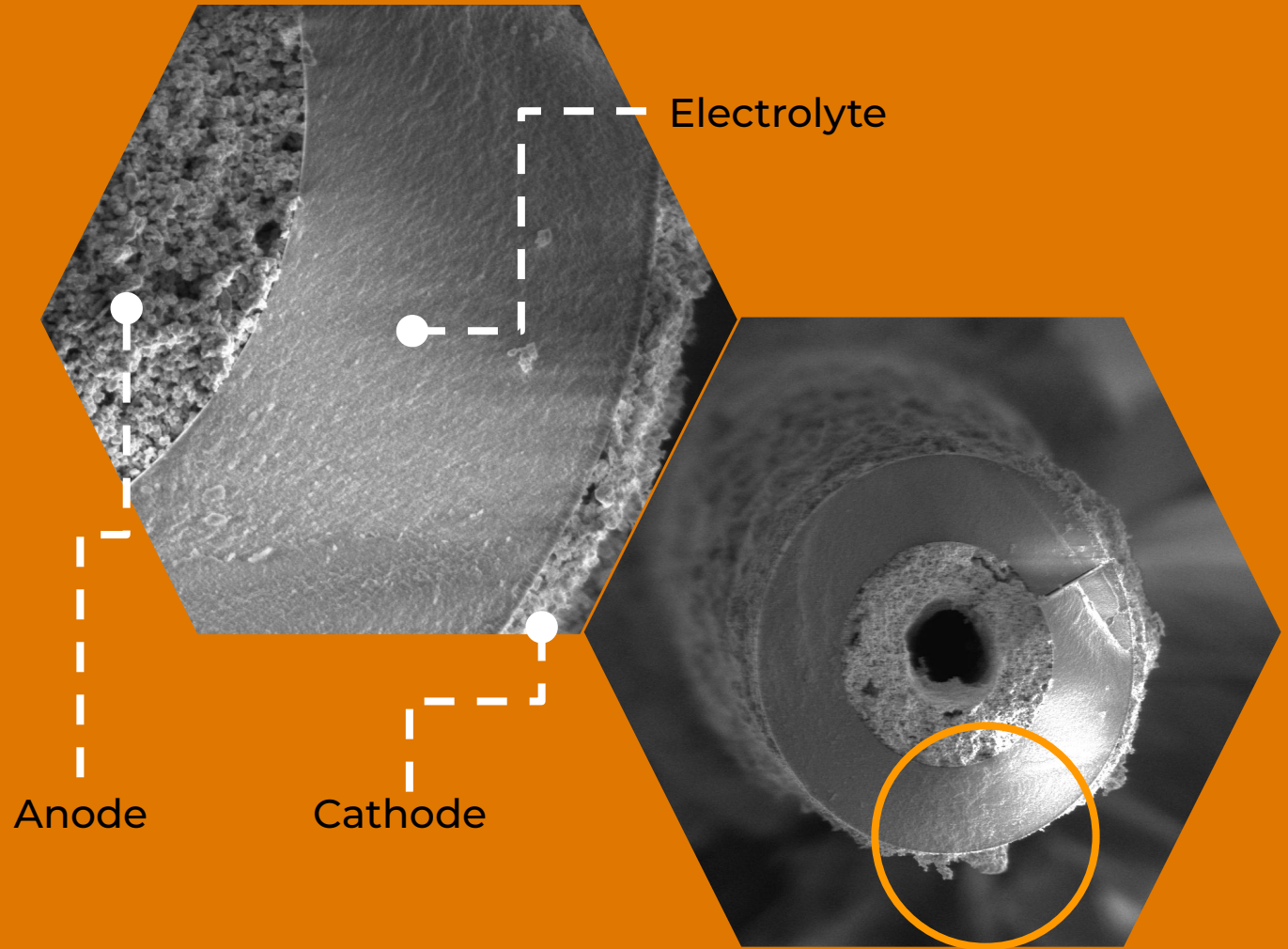
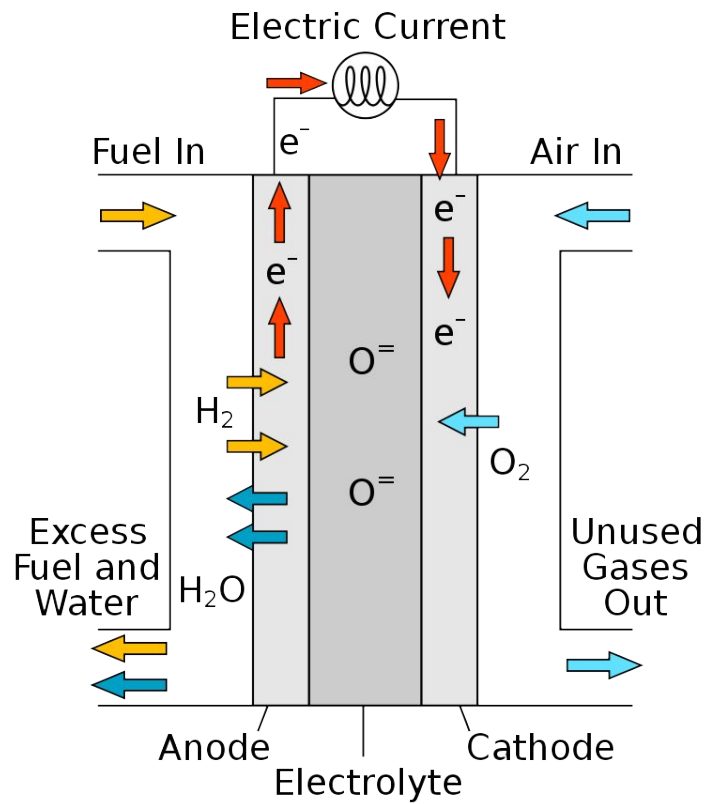


BUSINESS INCUBATION CENTRE

Estonia

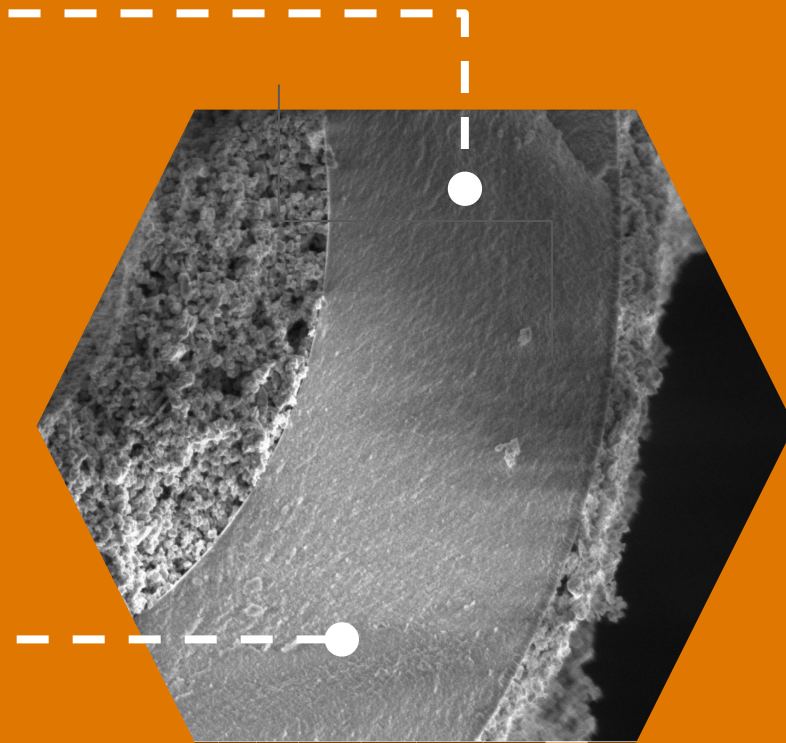


From Planar To New Tubular



Research and development

YSZ dense ceramic















Ø100-200 µm

Challenges

- Handling
- Current collection
- Assembly and Stacking Complexity

Planar vs μ Tubular

	μ Tubular Design	Planar Design
Power Density		
Thermal Cycling stability		
Mechanical stability		
Sealing		
Fabrication		
Startup time		

Use cases

Small
transportation



Large
transportation



Space



Drones



Off-grid



Small
electronics

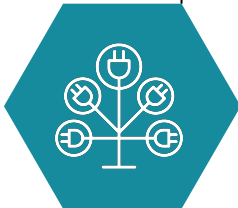


Fuel Cell Electric Power Source

First generation:

up to 1 kW
stackable

hydrogen and
ethanol fuel



Optional third
party fuel tank



Customized to fit
customers products



Launch 2026

Get in touch



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