

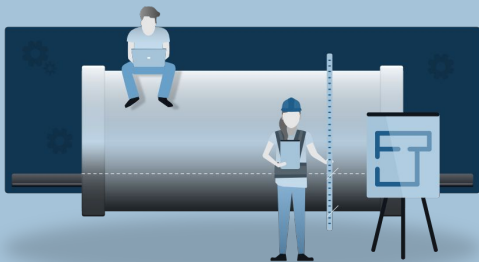
A non-profit approach to Hyperloop

Gregory Inauen, EuroTube Foundation

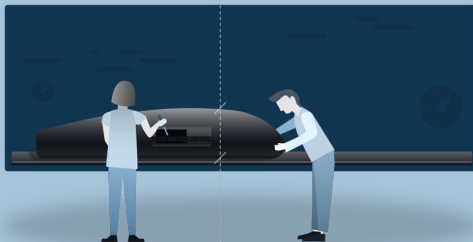


The EuroTube Foundation is a non-profit research organisation and incubator for sustainable vacuum transportation technologies.

Research & Development

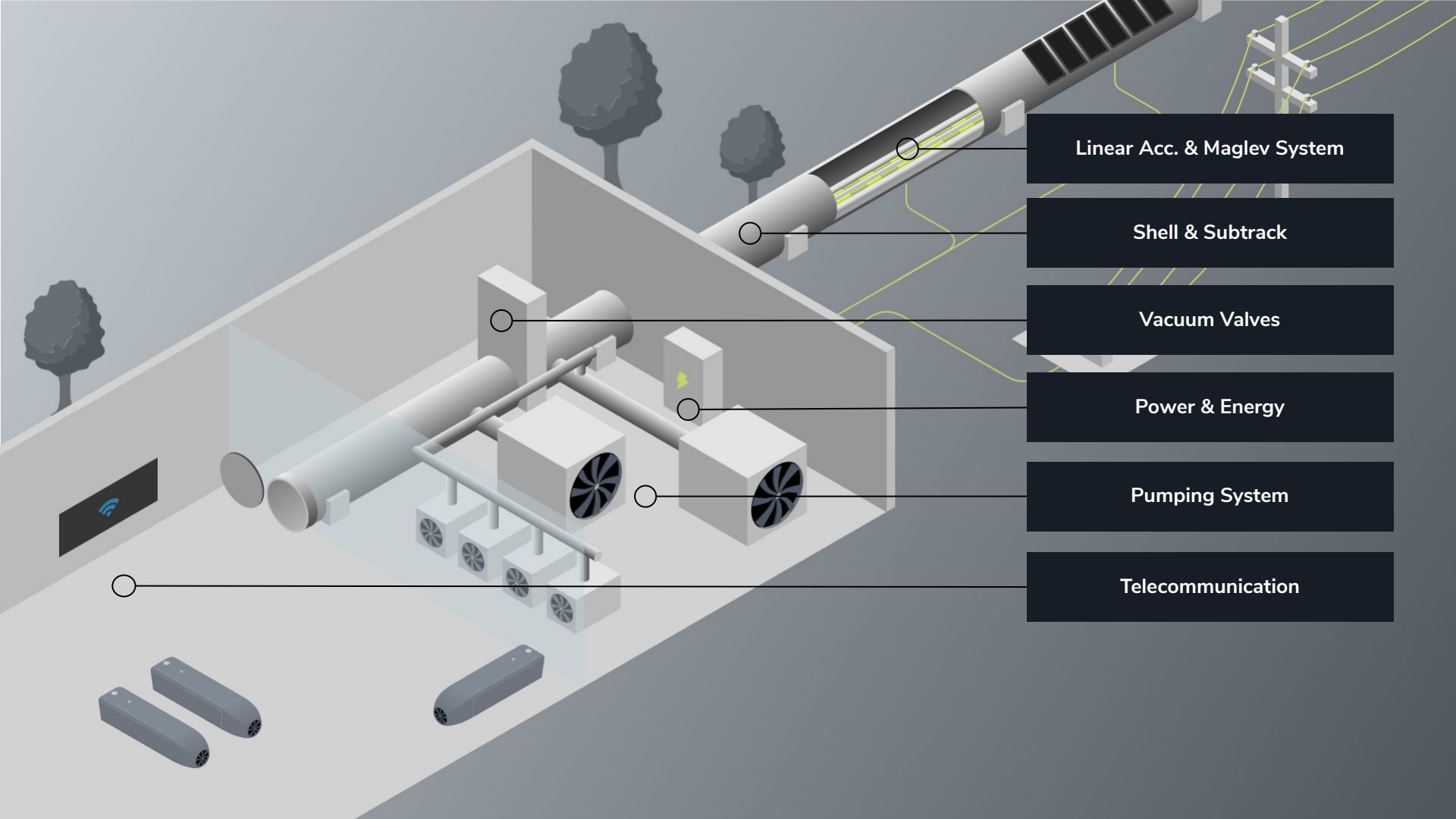


Incubation & Transfer



Certification & Regulation





Linear Acc. & Maglev System

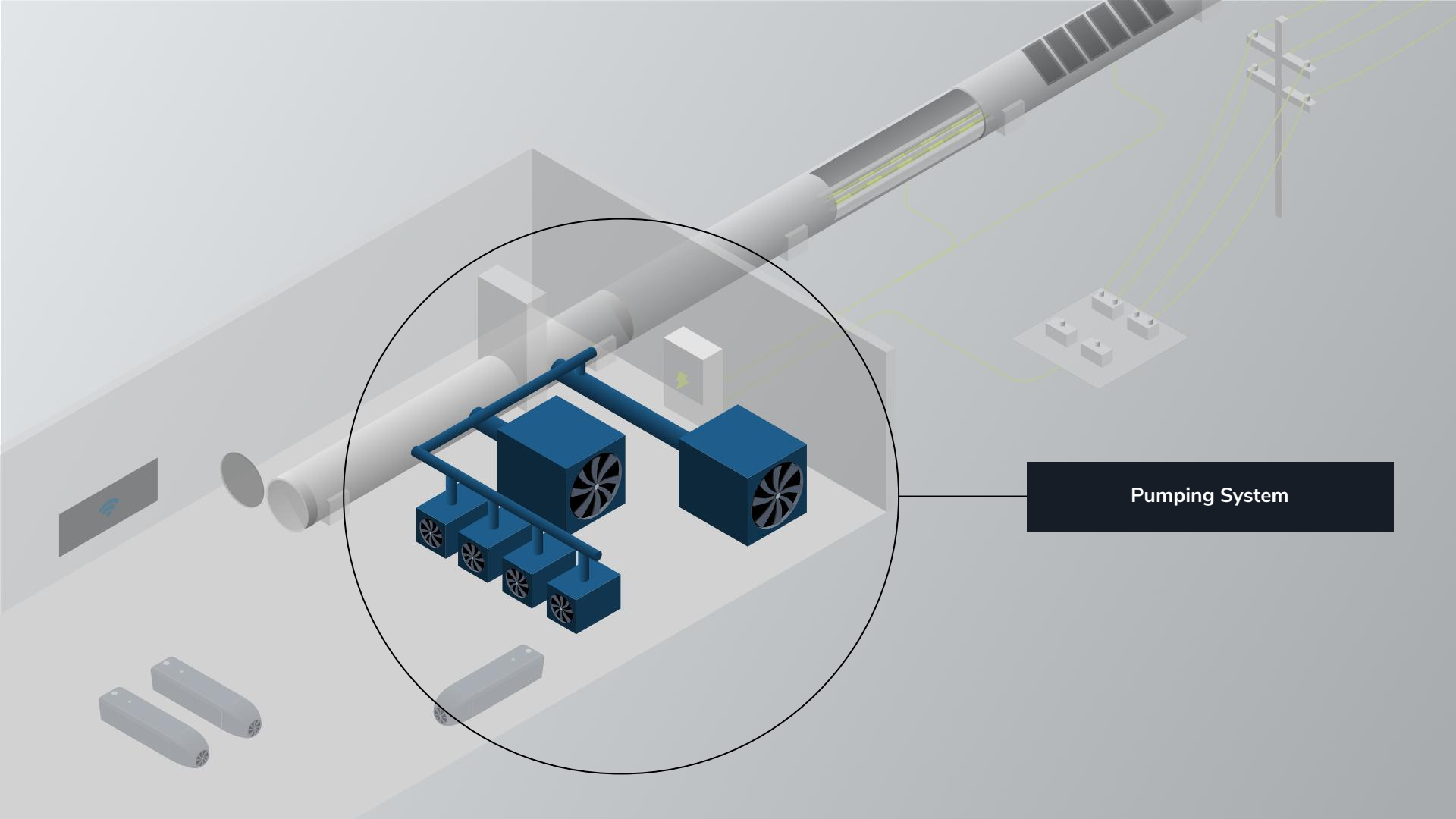
Shell & Subtrack

Vacuum Valves

Power & Energy

Pumping System

Telecommunication



Pumping System

Project:

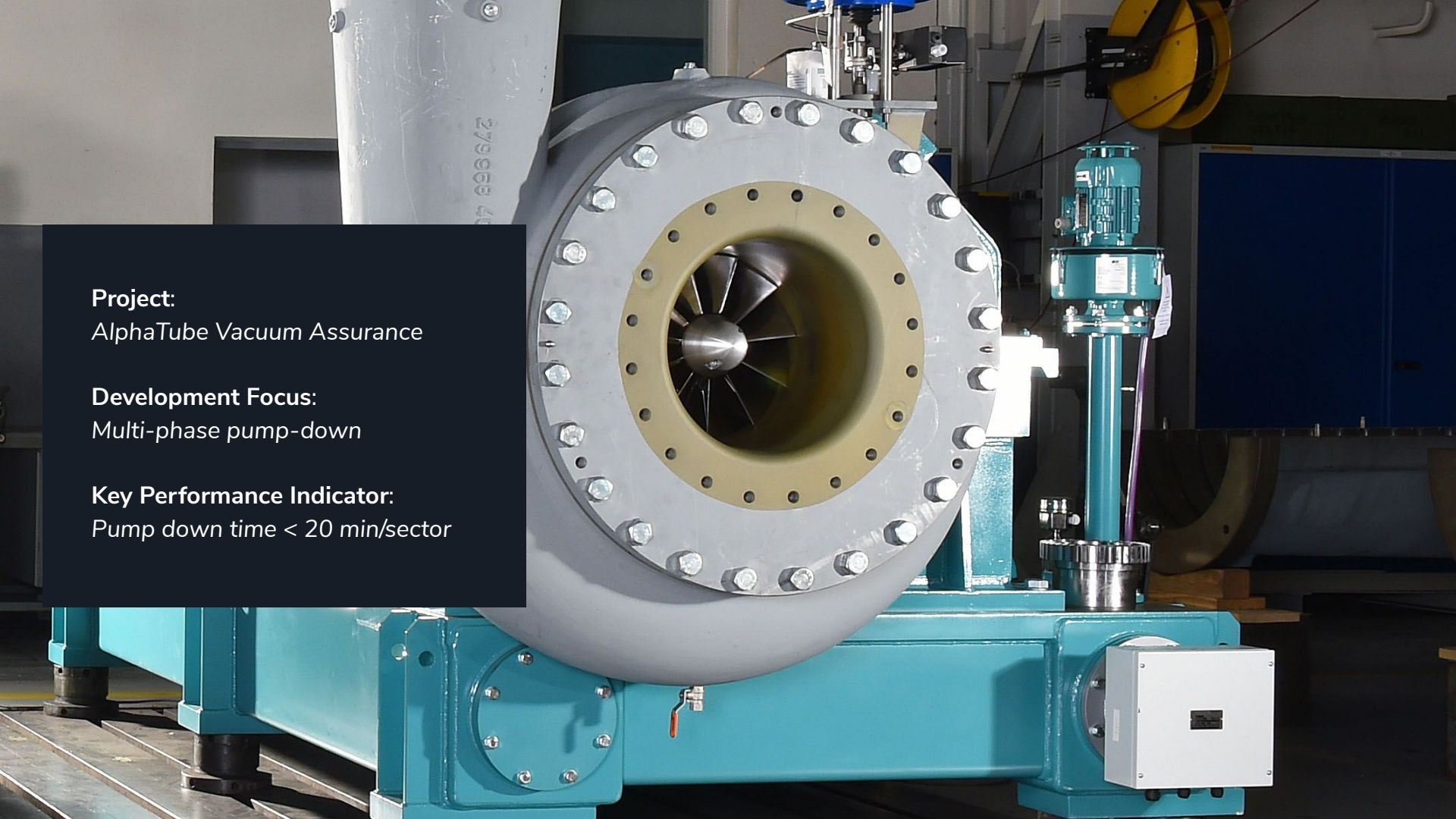
AlphaTube Vacuum Assurance

Development Focus:

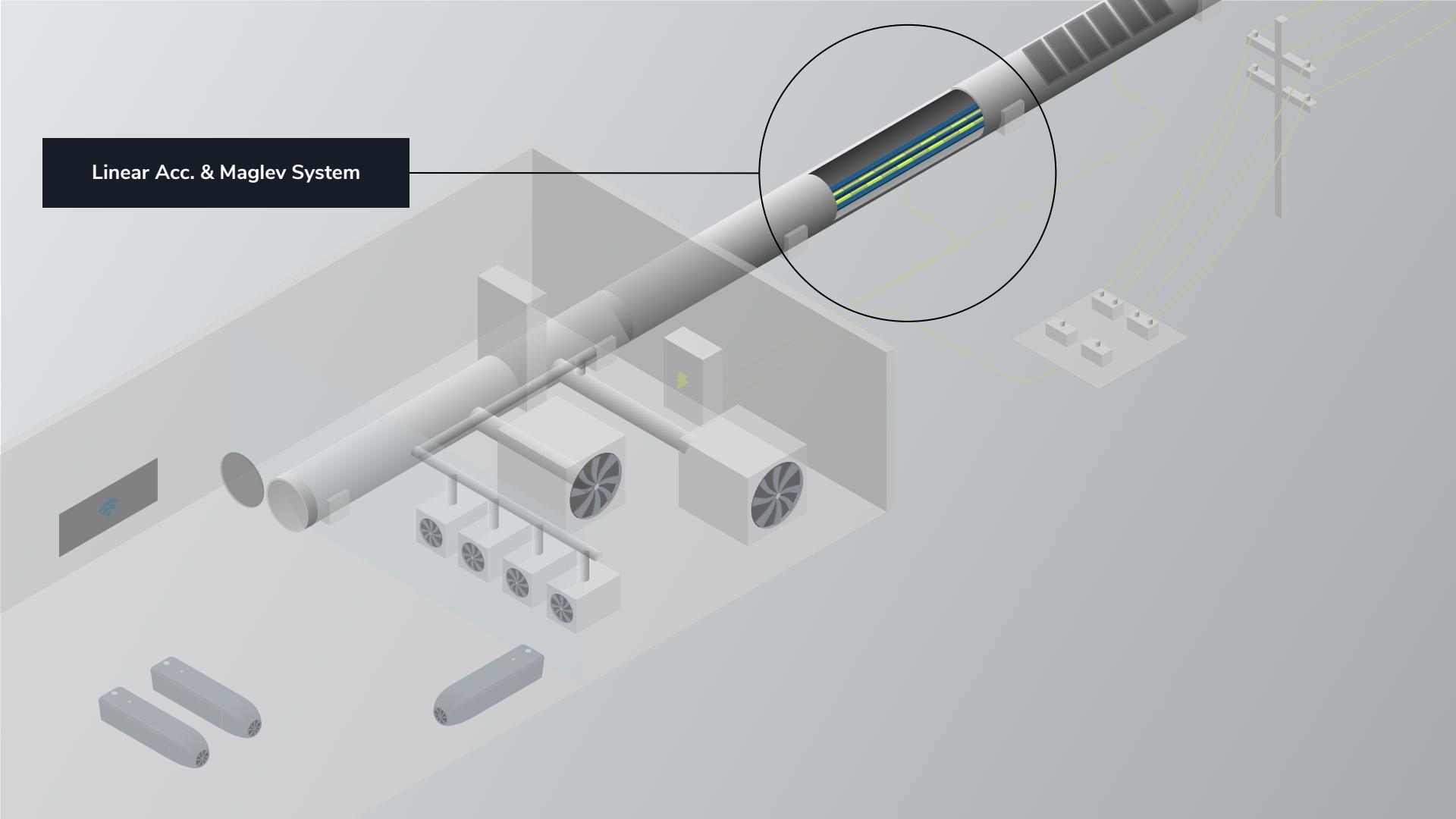
Multi-phase pump-down

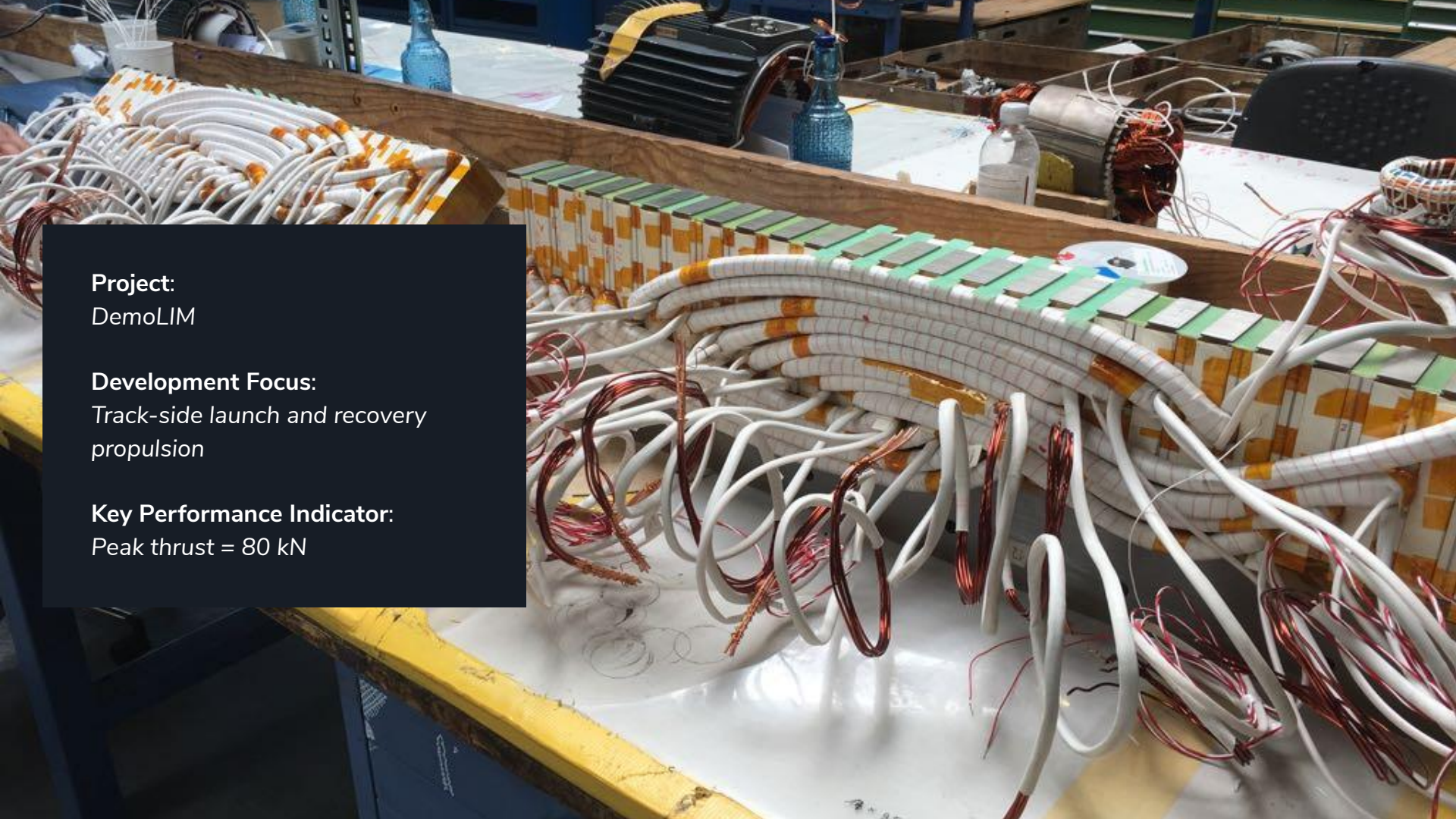
Key Performance Indicator:

Pump down time < 20 min/sector



Linear Acc. & Maglev System

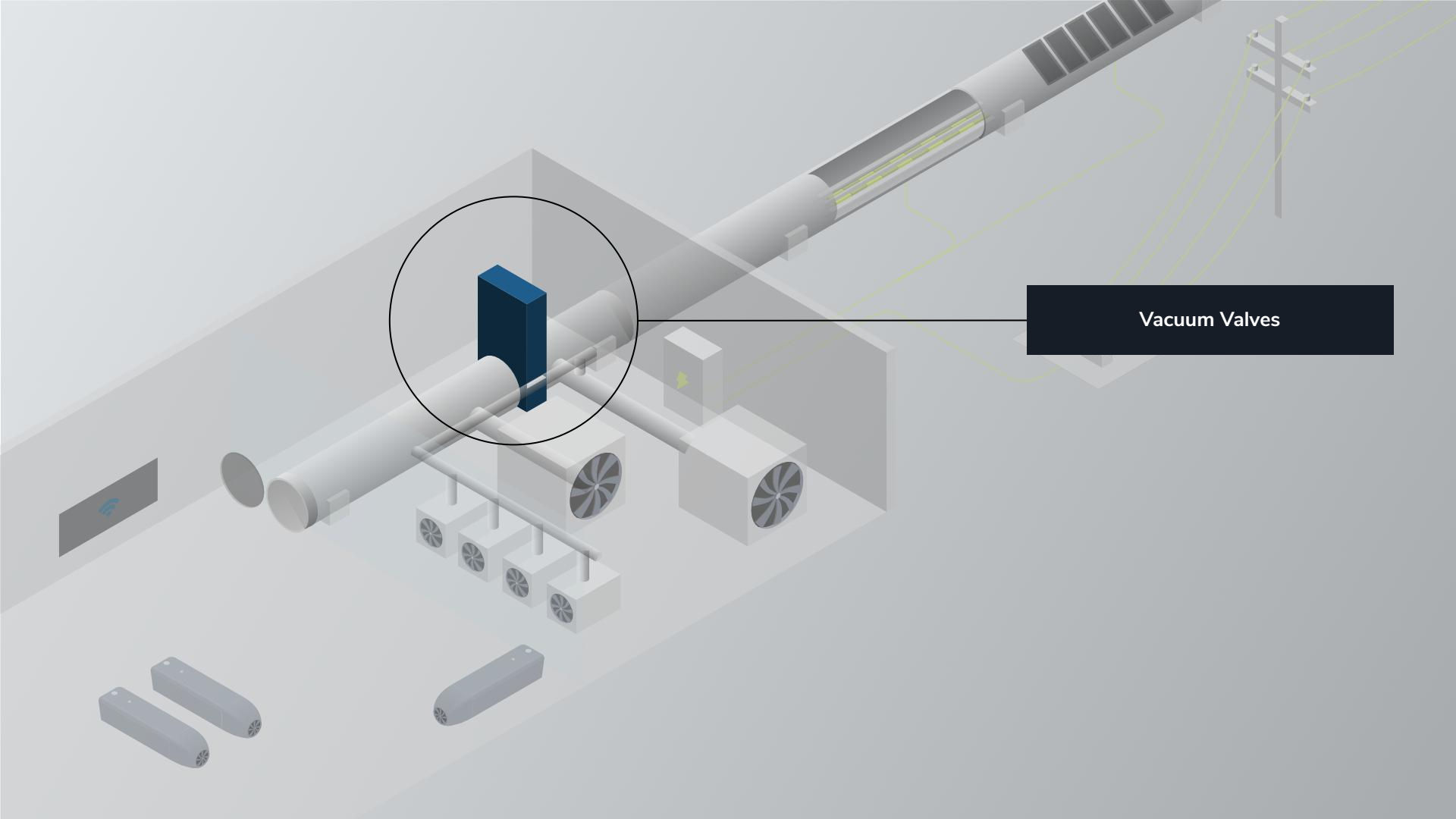




Project:
DemoLIM

Development Focus:
Track-side launch and recovery
propulsion

Key Performance Indicator:
Peak thrust = 80 kN



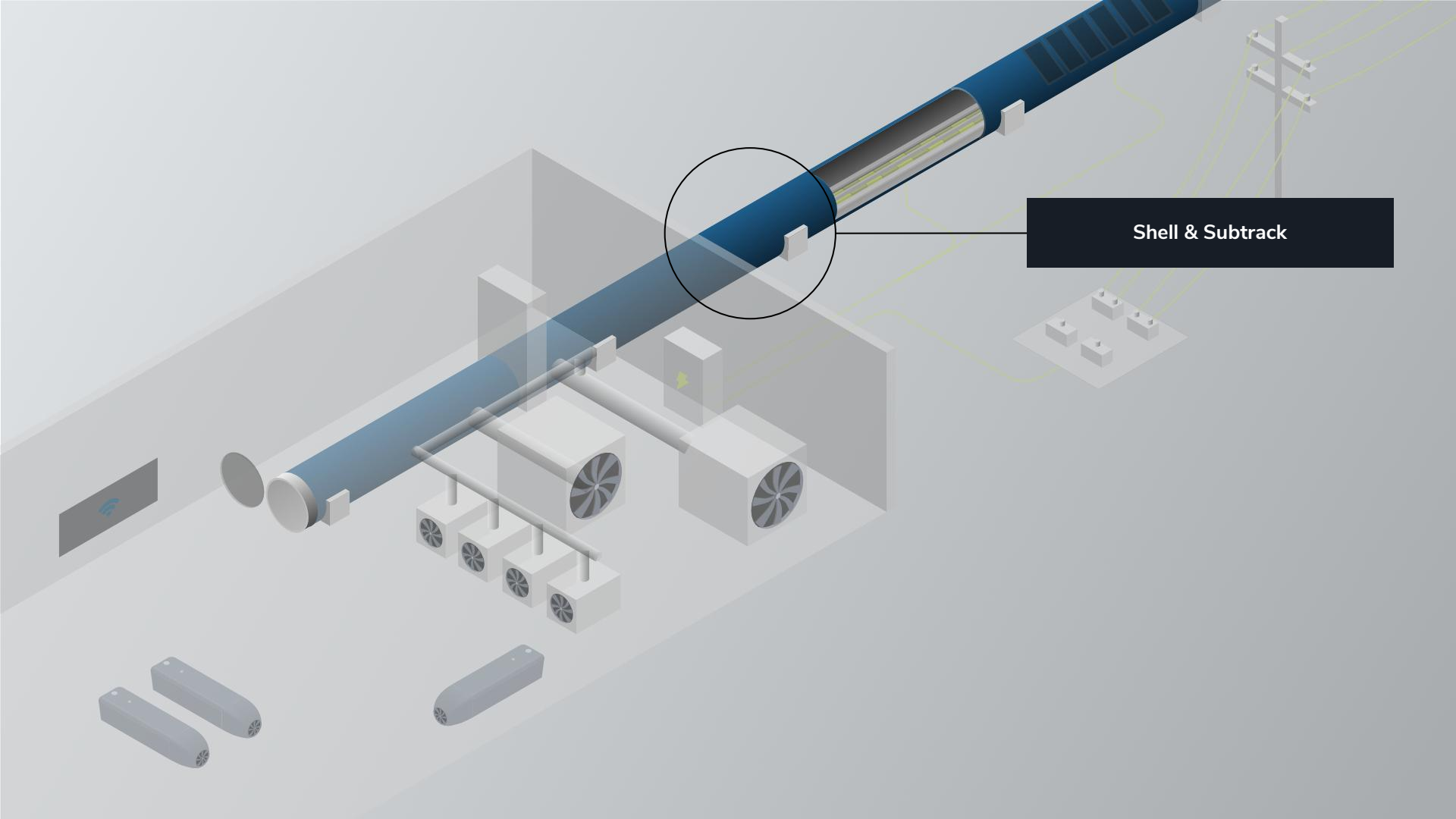
Vacuum Valves



Project:
BigValve

Development Focus:
Material innovation for safety
gate valve

Key Performance Indicator:
Emergency opening time < 10 sec




Shell & Subtrack

Project:
BetaShell & Joint

Development Focus:
Automated tube sealant application

Key Performance Indicator:
Allowable leakage < 50 slm

 **euroTUBE** #betashell #joint



EuroTube Research & Incubation Platform



Academic Research



EuroTube Foundation
Founded at ETHZ
and EPFL

**Construction
DemoTube**
120 m

Commercial Application



Accelerate Sustainable Transport

Tech. Readiness Level (TRL) 3

4

5

6

7

8

9

2016 -
Init. Ecosystem

2017 -
R&D Partnerships Platform

2018 - 2023
Incubation & Demos

EuroTube Research & Incubation Platform



Academic Research



EuroTube Foundation
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**Construction
DemoTube**
120 m

**Opening
AlphaTube**
> 3 km

Commercial Application



Accelerate Sustainable Transport

Tech. Readiness Level (TRL) 3

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2016 -
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2018 - 2023
Incubation & Demos

2023 - 2028
Acceleration to Market

EuroTube Research & Incubation Platform



Academic Research



EuroTube Foundation
Founded at ETHZ
and EPFL

**Construction
DemoTube**
120 m

**Opening
AlphaTube**
> 3 km

**Launch
BetaTube**
> 30 km

Commercial Application



Accelerate Sustainable Transport

Tech. Readiness Level (TRL) 3

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2016 -
Init. Ecosystem

2017 -
R&D Partnerships Platform

2018 - 2023
Incubation & Demos

2023 - 2028
Acceleration to Market

2028 -
Commercial use

AlphaTube Research Infrastructure



Collombey-Muraz, CH



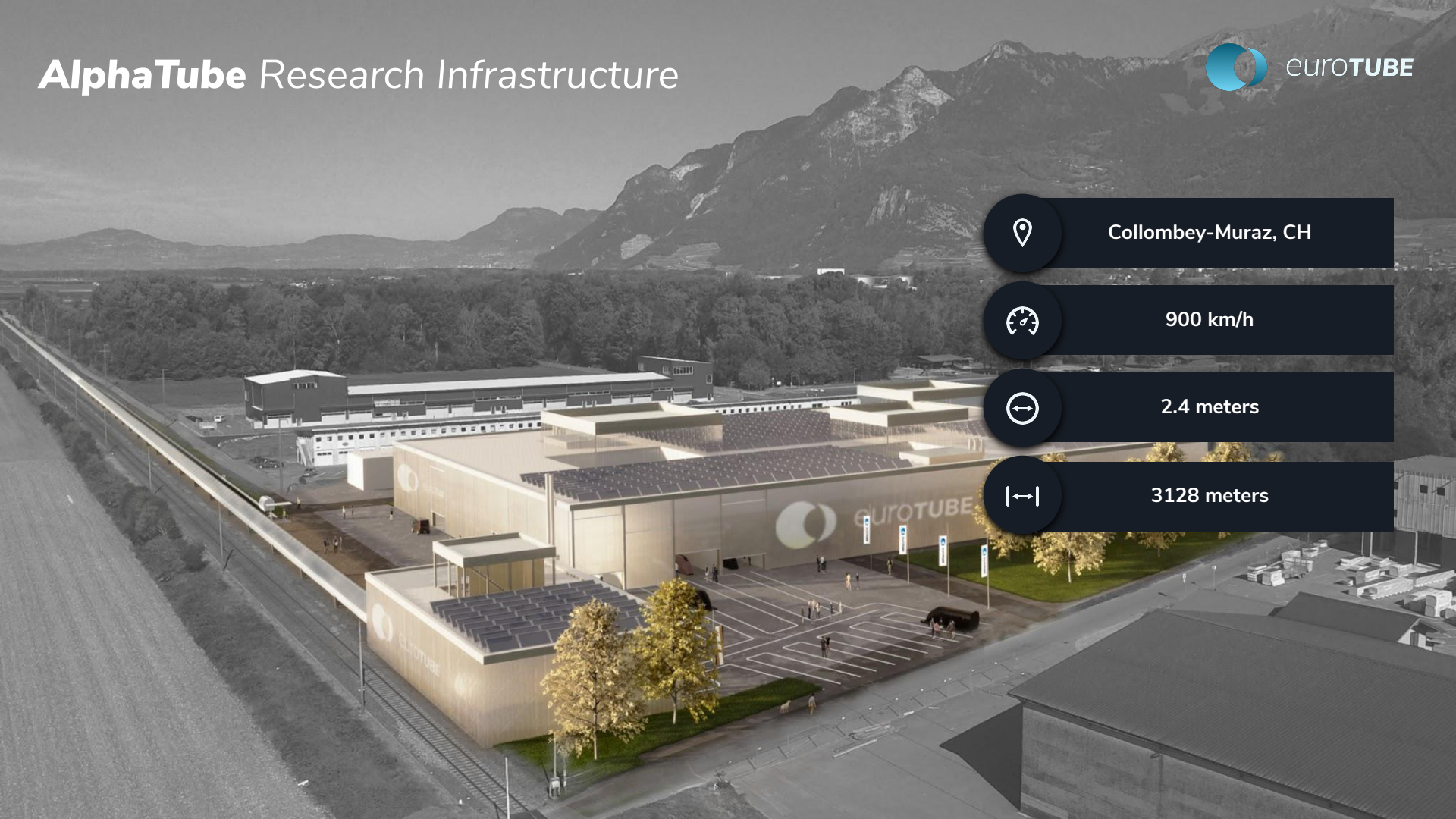
900 km/h



2.4 meters



3128 meters



Thank you!

Follow our progress

eurotube.org