

# We are building the sustainable high-speed ground transport of tomorrow

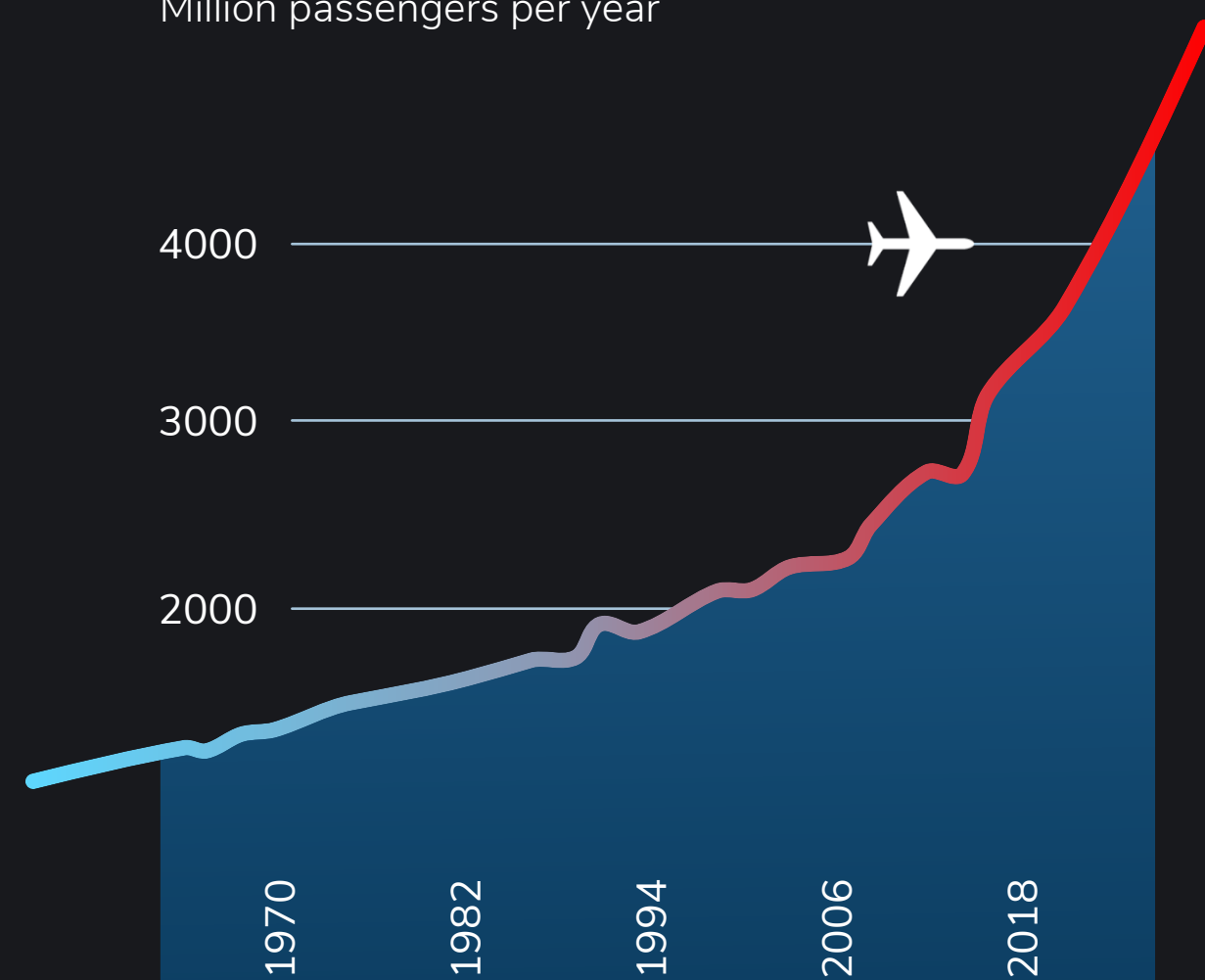


## Global Mobility Challenge

**Emissions from international air transport are increasing and make it impossible to achieve our climate goals.**

The demand for fast and affordable transport is rising. The IATA (International Air Transport Association) predicts a demand of 8.2 billion airline passengers by 2037. Growth in international transport of cargo and passengers will drastically fuel global climate change.

**Aviation**  
Million passengers per year

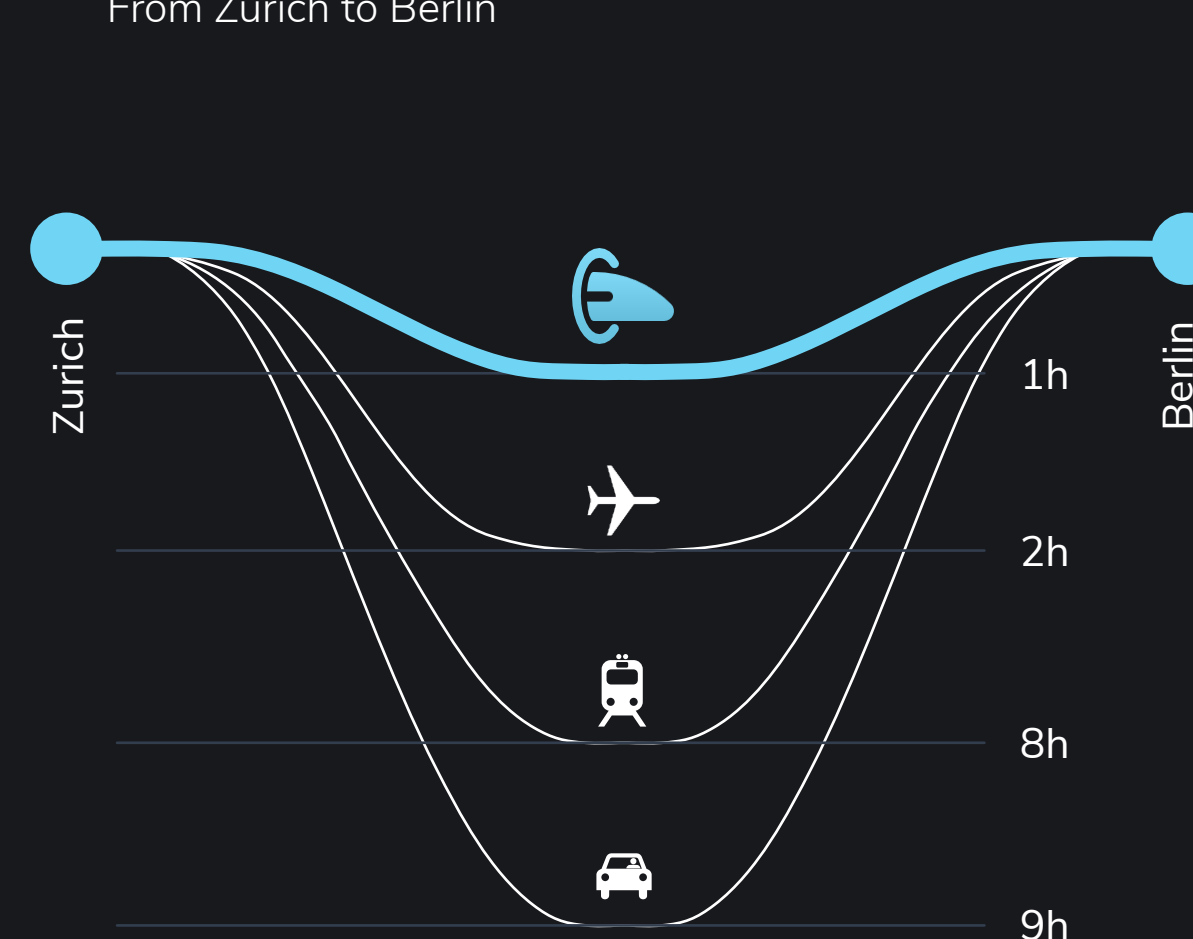


## The Solution Hyperloop

**Traveling at the speeds of an airplane with the ecological footprint of a train.**

Vacuum Transport is the next evolution in rail-based transport. Also known as Hyperloop, the technology is fast, sustainable and comfortable. An autonomous and intelligent control system ensures safe and reliable operations with an average travelling speed of 900 km/h. The fully electric system aims to reduce CO<sub>2</sub> emissions by up to 95% compared to same aviation routes and throughputs.

**Travel time**  
From Zurich to Berlin



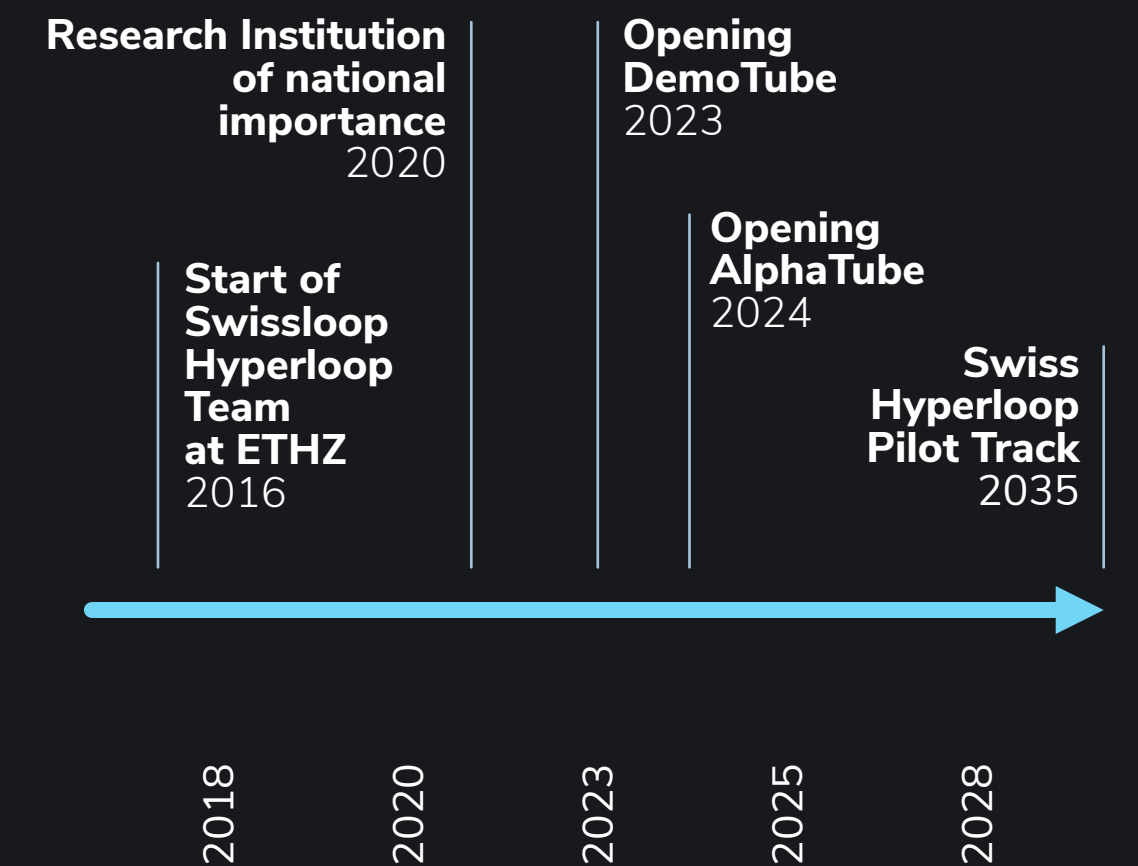
## EuroTube Track Record

We accelerate the development of sustainable vacuum transport by fostering R&D, providing testing facilities and creating synergies within the community.

Supported by leading Swiss and European research and industry players, the Foundation delivered successful prototype results and since 2018 financed several 5-7 figure projects for the AlphaTube.

In 2020 EuroTube was recognised by the Swiss Government as an R&D institution of national importance.

## Timeline



EuroTube is committed to the Sustainable Development Goals of the United Nations and pursues the following SDGs:





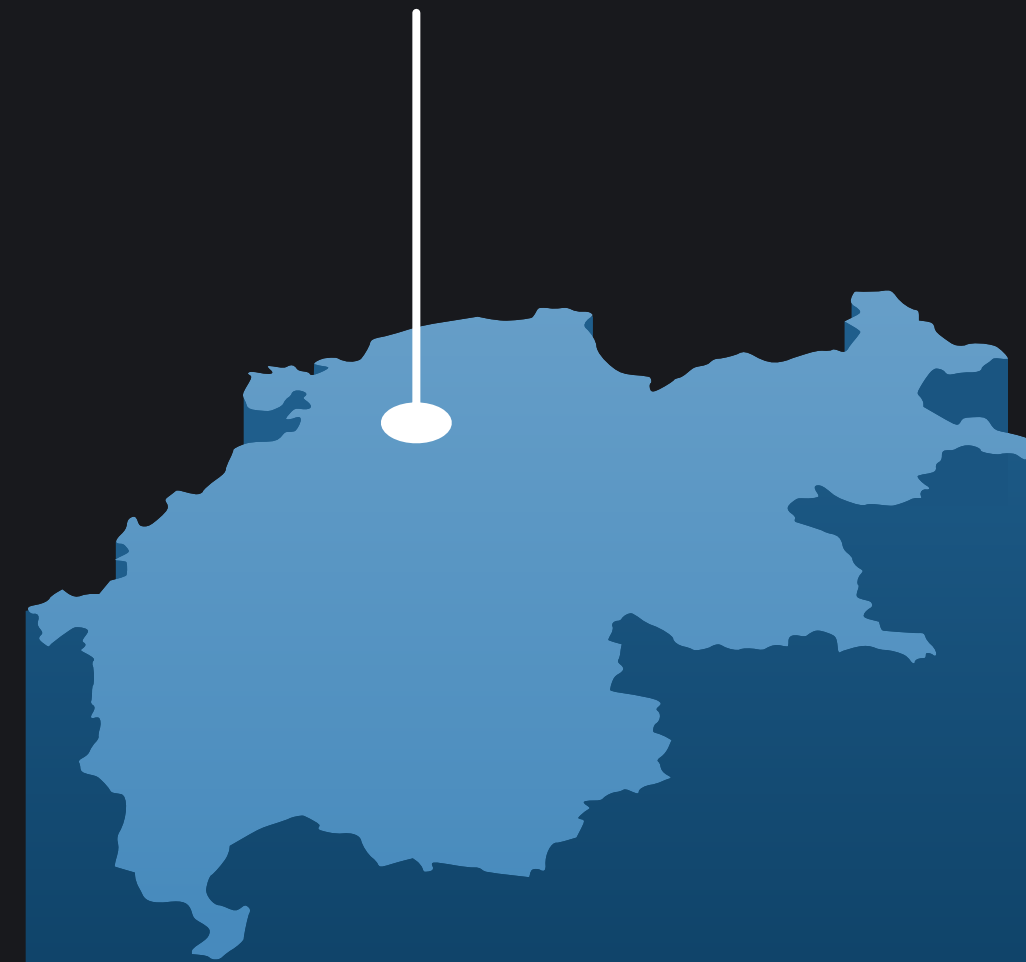
# DemoTube

## Our in-house test track in Zurich Switzerland

### What is DemoTube

DemoTube is our prototype Hyperloop testing infrastructure planned near our headquarters in Zurich. The 120-meter-long track will be used as a test site to verify all new technologies developed by our engineers. With its central location in Europe, companies, research institutions and university student teams will be able to test their technology & products within a few hours of travel only.

### Zurich Switzerland



### Overview of Events

DemoTube will serve as a platform for various events that will bring the Hyperloop community together and promote the technology in a sustainable way.

#### Opening Ceremony

One time event early 2023

- Celebration with City of Dübendorf & Canton of Zurich
- First test drive of Hyperloop Pod



#### Open Days

Recurring event a few times a year

- DemoTube open to the public
- Test drives & presentations for everybody



#### Corporate Events

Recurring event a few times a year

- Corporate Apéros and tours at DemoTube
- Workshops and guided tours through facilities



### Main Event International Hyperloop Contest

SpaceX's Competition took place from 2015 to 2019. An international contest is now to take its place. This will meet the need of many pod teams to have a platform to show their developments.



#### International Hyperloop Contest

First event in Summer 2023

- International Hyperloop Contest with 25 finalists
- Festival Style Competition with international outreach





# AlphaTube

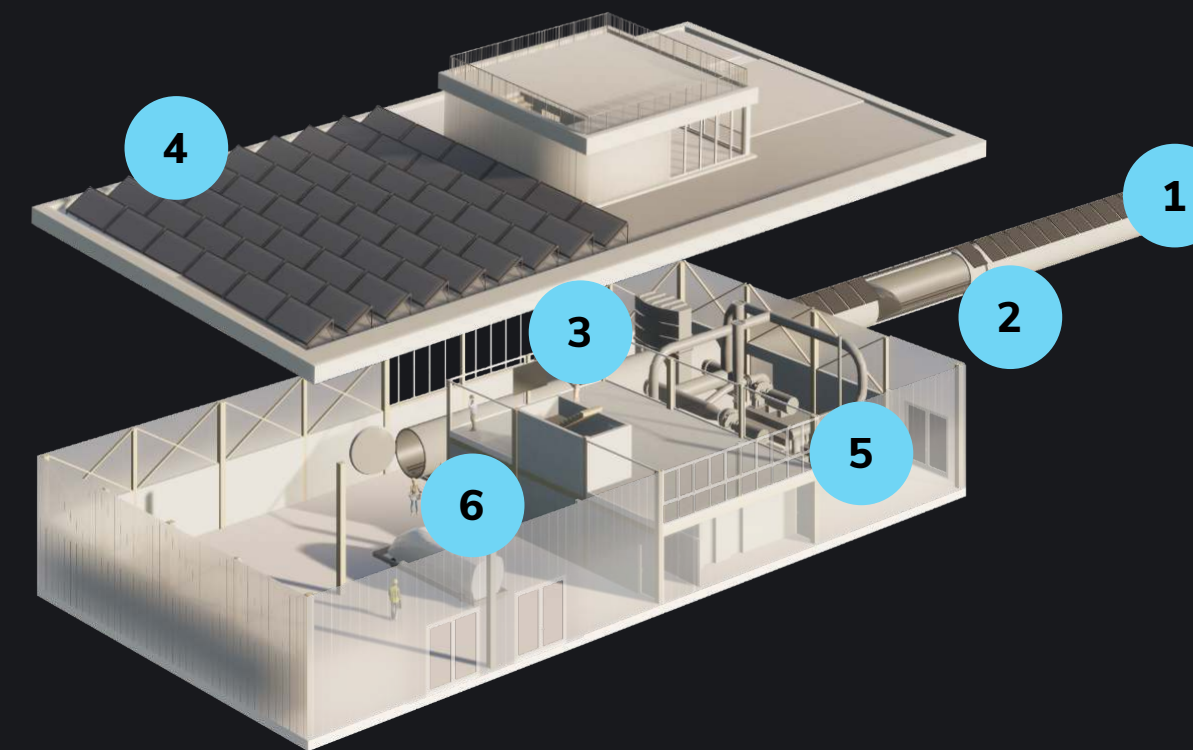
The first full-fledged vacuum transport demonstrator in Collombey-Muraz, Switzerland

## What is AlphaTube

AlphaTube is the world's most advanced vacuum transport test track that operates electric pods efficiently with an unprecedented target speed of 900 km/h.

AlphaTube will be made publicly accessible for research on sustainable mobility and brings together the European vacuum transport community in Switzerland for joint undertakings and engineering competitions. The 3-km-long test track includes all necessary subsystems to provide a proof-of-concept and scalability for a commercially viable vacuum transport route.

## Overview of used Technologies



## AlphaTube Milestones

### Real Estate Secured

Land use agreements have been signed with the owners such as SBB.



### Technical Designs Completed

The main technical requirements for AlphaTube have been designed.



### Construction Dossier Published

The dossier for construction permits has been submitted.



### Funding from Swiss government

EuroTube received status of research institution of national importance.



## Collombey-Muraz Switzerland



1. Shell & Subtrack
2. Motor & Maglev System
3. Vacuum Valves
4. Power & Energy
5. Pumping System
6. Telecommunication

