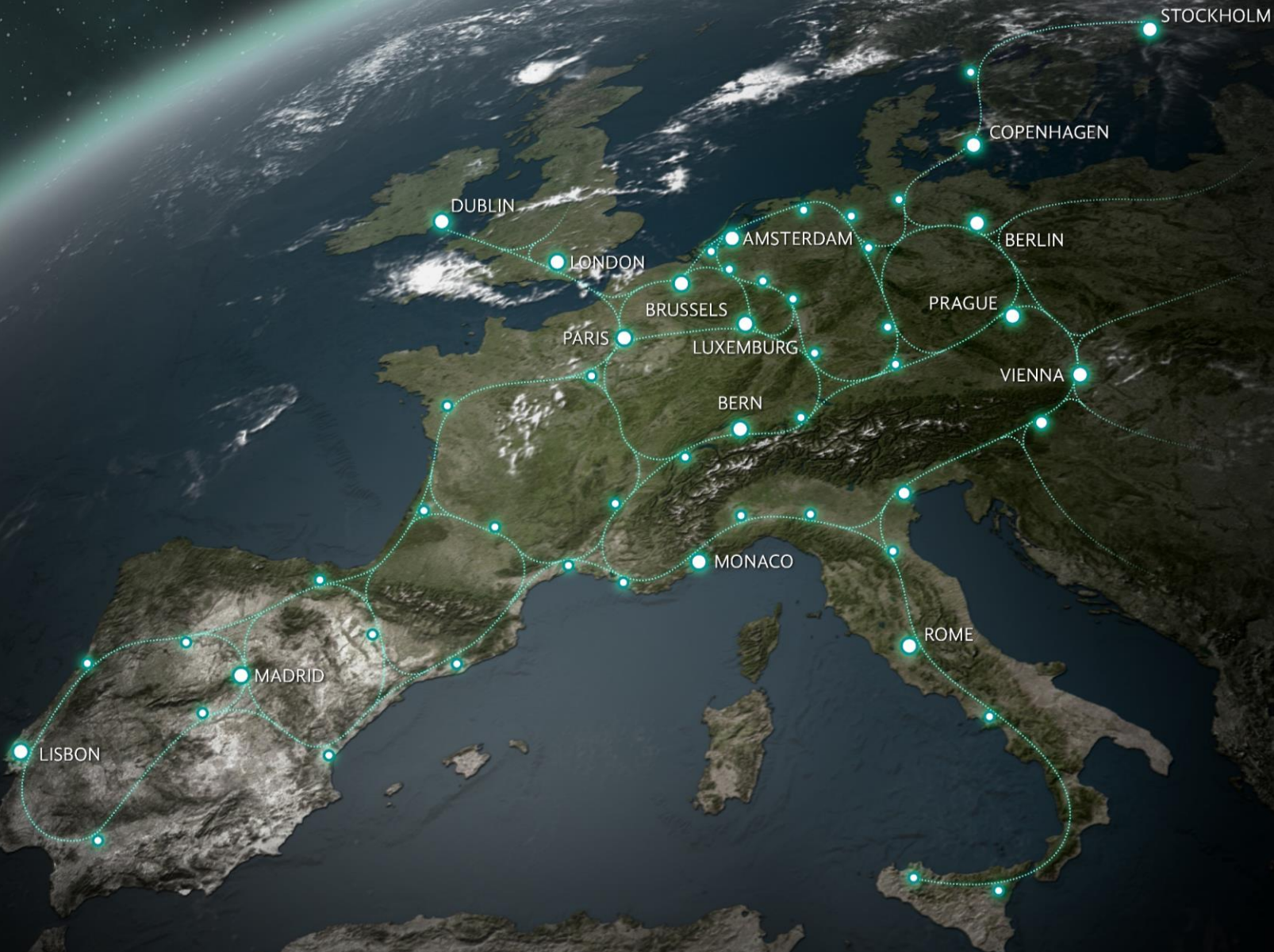


# Creating the Global Village



Who is travelling to their work almost every day?

Who would love it, if this trip would be less time consuming?



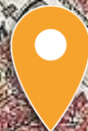
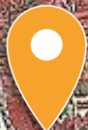
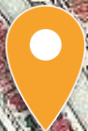


**Mars Geuze**

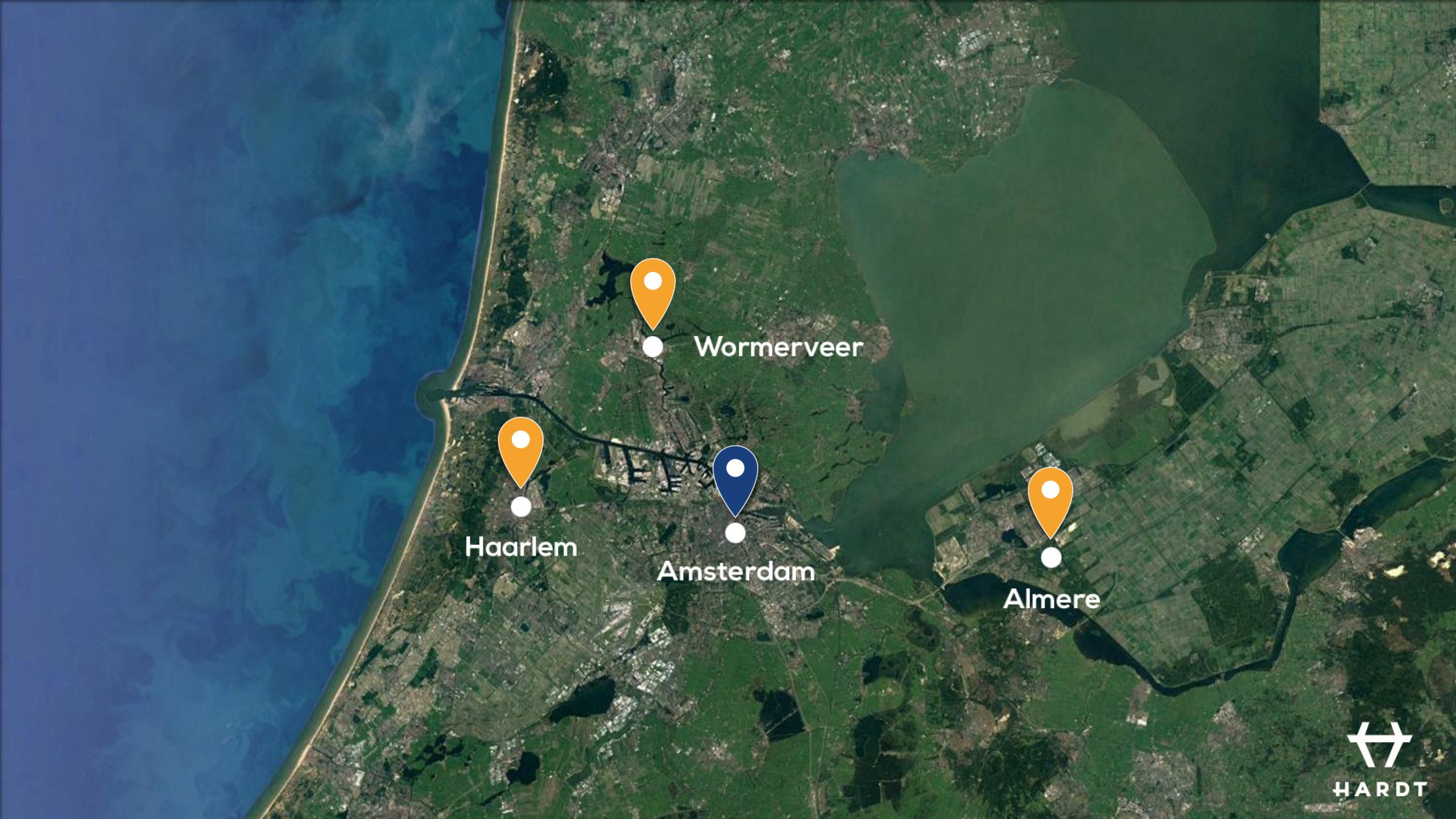
CTO Hardt











Wormerveer

Haarlem

Amsterdam

Almere











Imagine



- Faster than airplanes
- Cheaper than trains
- Zero emissions





 HARDT

  
HARDT



Amsterdam

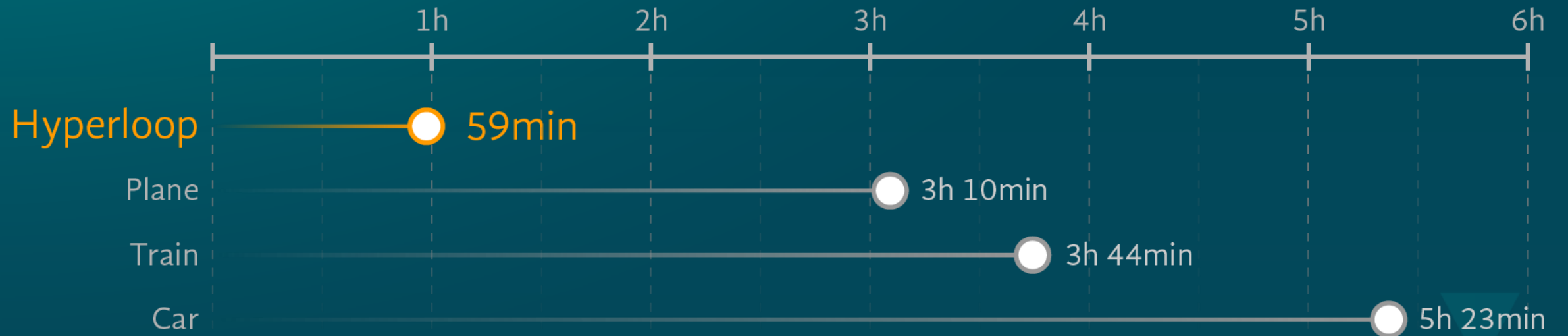


Paris





## Amsterdam - Paris time comparison





A satellite-style map of Europe with a dark green color scheme. The North Sea is on the left, and the Mediterranean Sea is on the right. Two cities are marked with white dots and labeled: Amsterdam in the north and Paris in the south. The map shows topographical features like mountain ranges and river networks.

● Amsterdam

● Paris





● Amsterdam

● Rotterdam

● Antwerp

● Brussels

Lille ●

● Paris





Amsterdam

Rotterdam

Antwerp

Brussels

Lille

Paris





● Amsterdam

● Rotterdam

● Antwerp

● Brussels

● Lille

● Paris





Amsterdam

Rotterdam

Antwerp

Brussels

Lille

Paris





Amsterdam

Rotterdam

Antwerp

Brussels

Lille

Paris





● Amsterdam

● Rotterdam

● Antwerp

● Brussels

● Lille

● Paris



People transport





People transport



Cargo transport







 HARDT



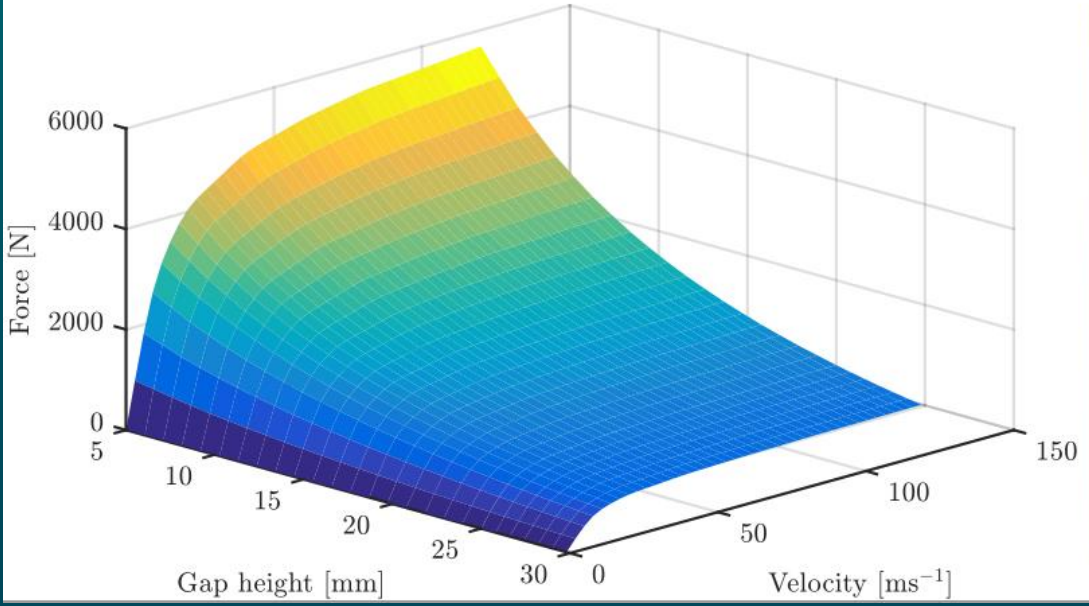
The image features a bright blue sky with scattered white clouds. In the foreground, a lush green field of tall grass is visible. A series of white, cylindrical support pillars are spaced evenly across the field, each supporting a horizontal, multi-layered tube that represents a Hyperloop track. The sun is visible in the distance, creating a lens flare effect. The overall scene is bright and clear.

**SPACEX**  
**HYPERLOOP POD COMPETITION**

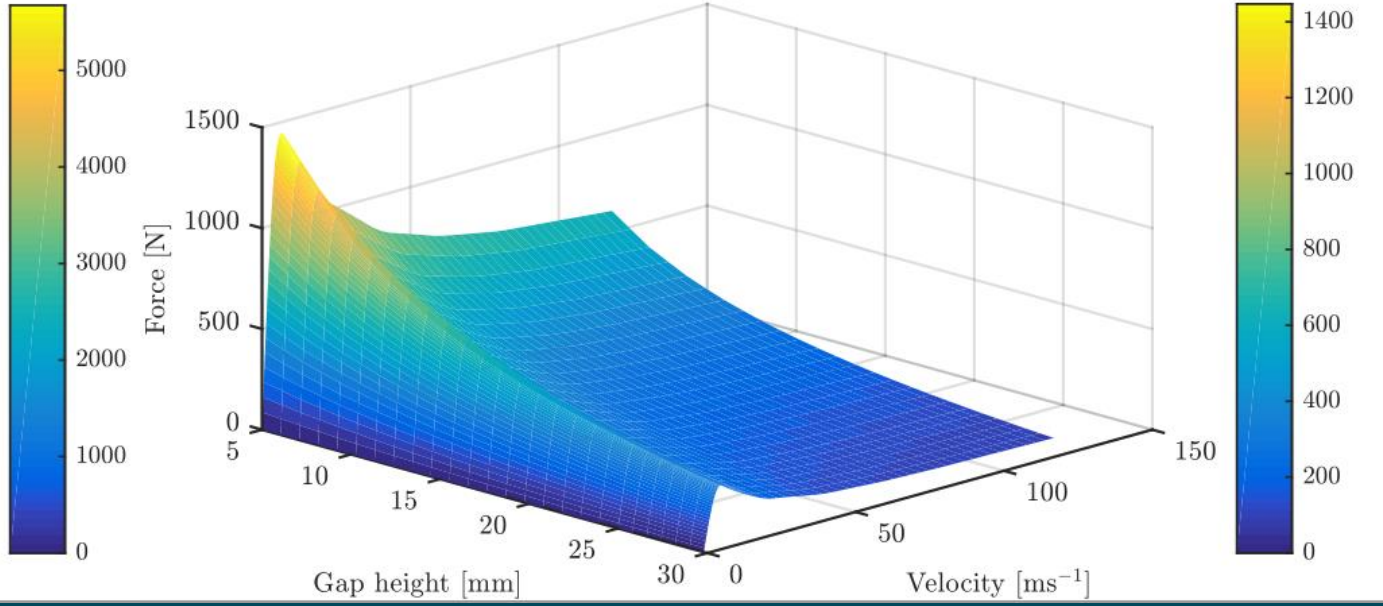
[SpaceX.com/Hyperloop](https://SpaceX.com/Hyperloop)



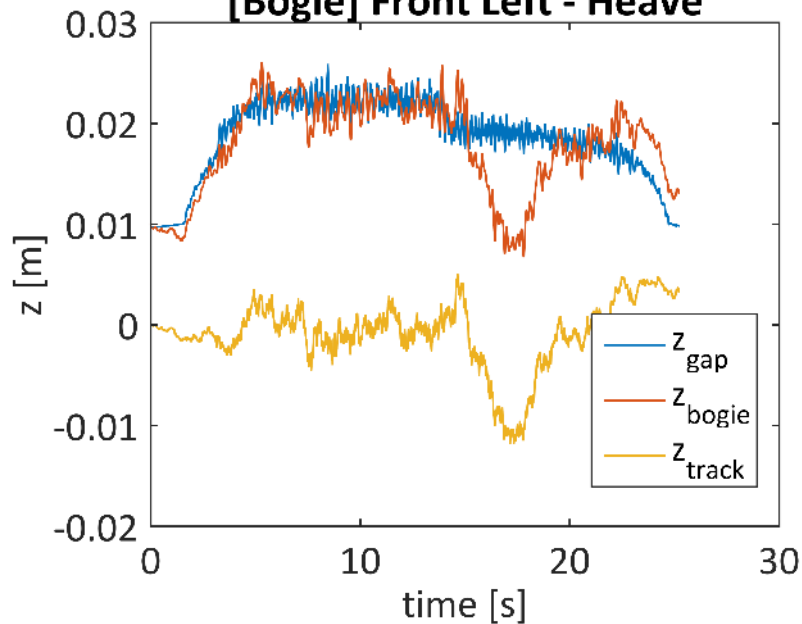
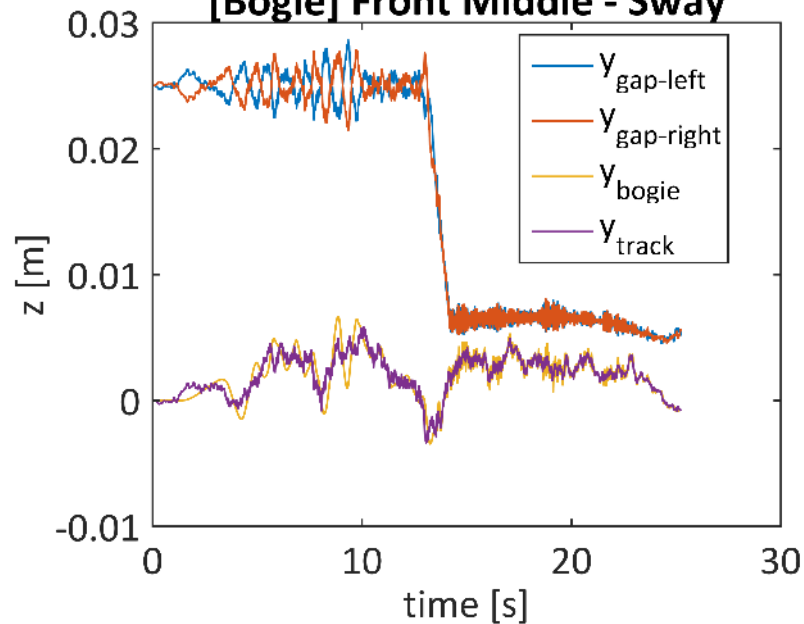
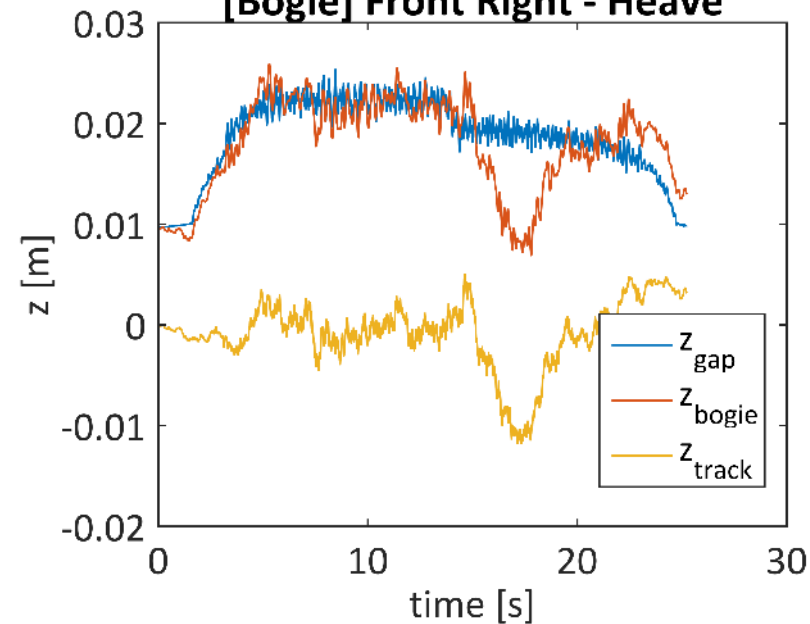
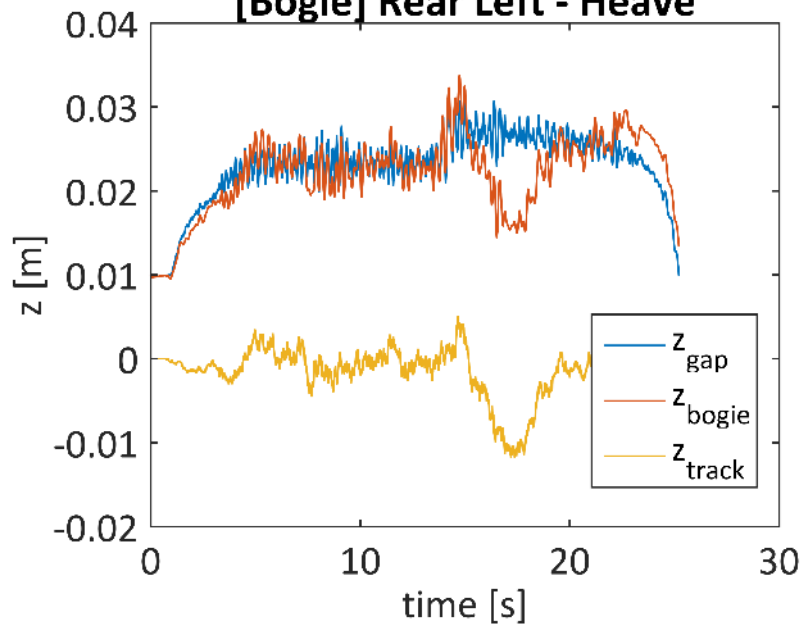
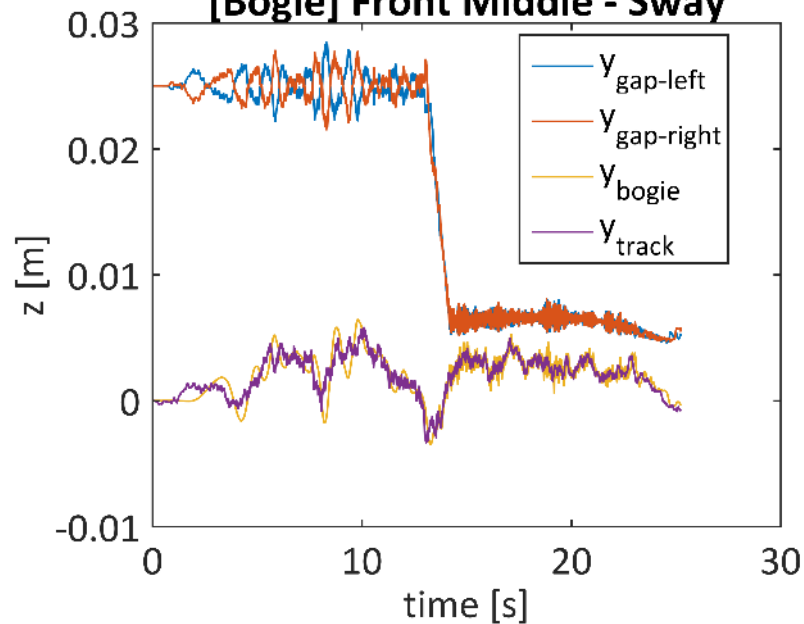
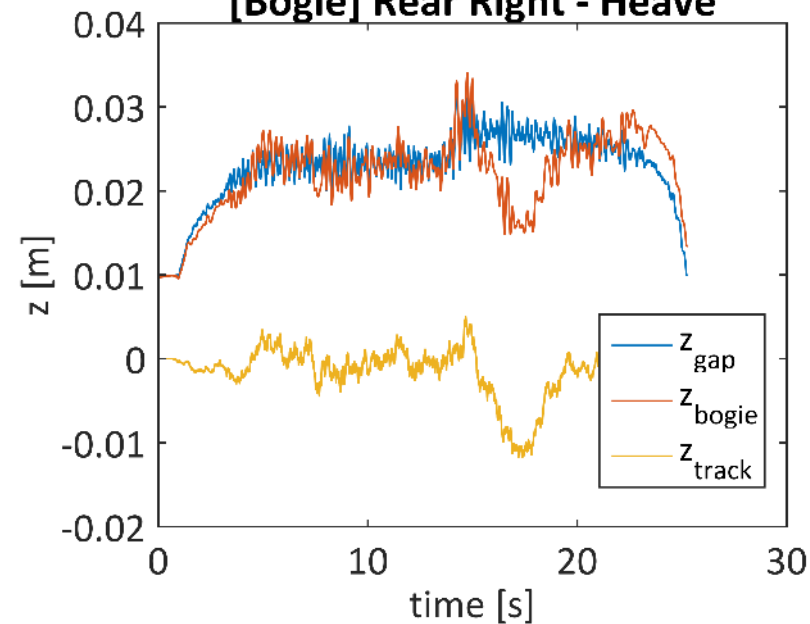
Total lift force



Total drag force





**[Bogie] Front Left - Heave****[Bogie] Front Middle - Sway****[Bogie] Front Right - Heave****[Bogie] Rear Left - Heave****[Bogie] Front Middle - Sway****[Bogie] Rear Right - Heave**









DELFT  
HYPERLOOP



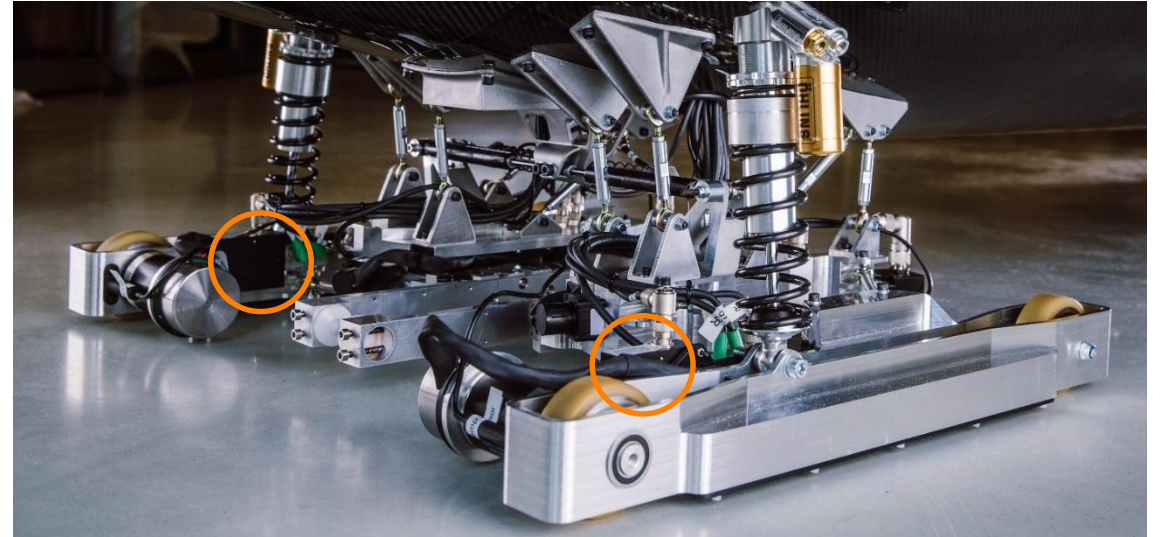
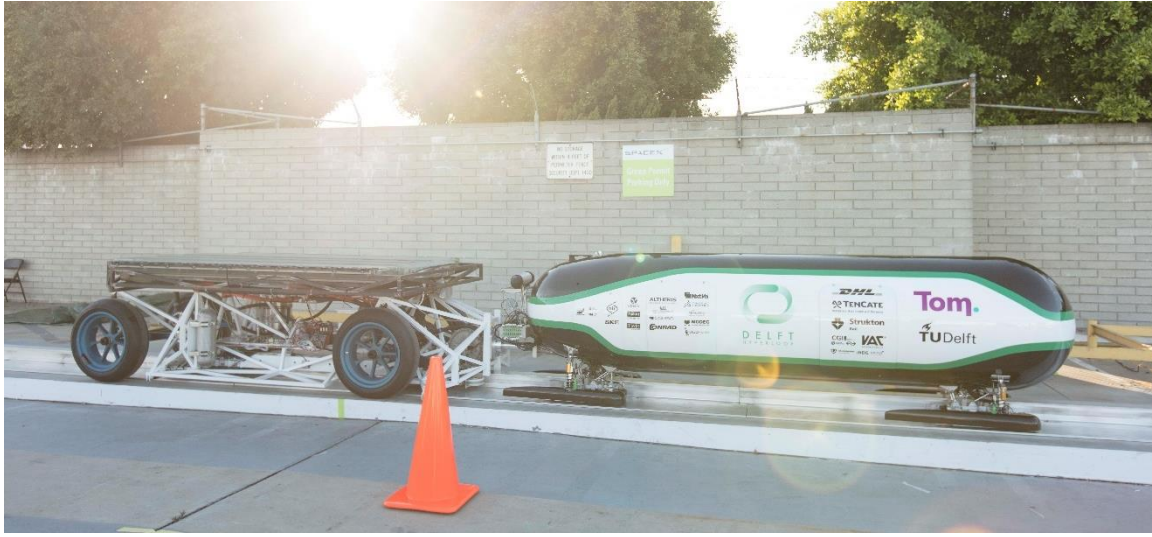
- amsix
- Ajilon
- SKF
- TWD
- ALITHERIS
- BUCCANER DELFT
- COMSOL
- CONRAD
- NxtVn
- DISSAULT SYSTEMES
- Movares
- MODEC
- StuD Fonds



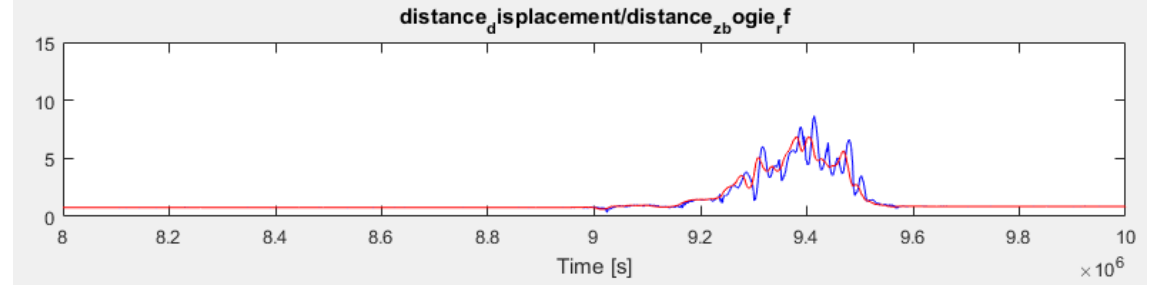
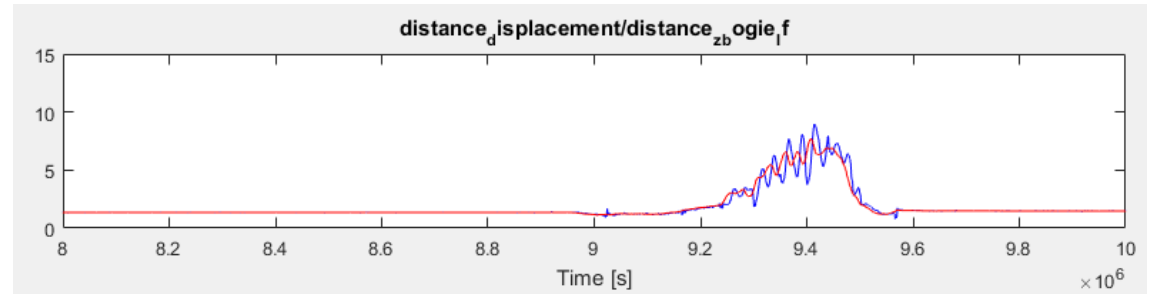
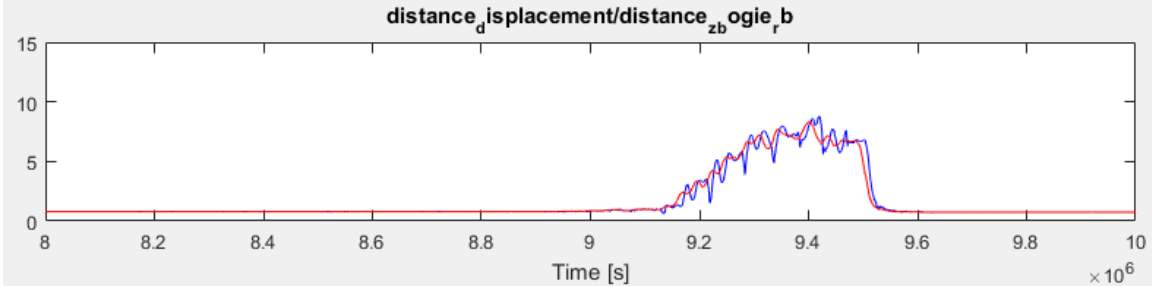
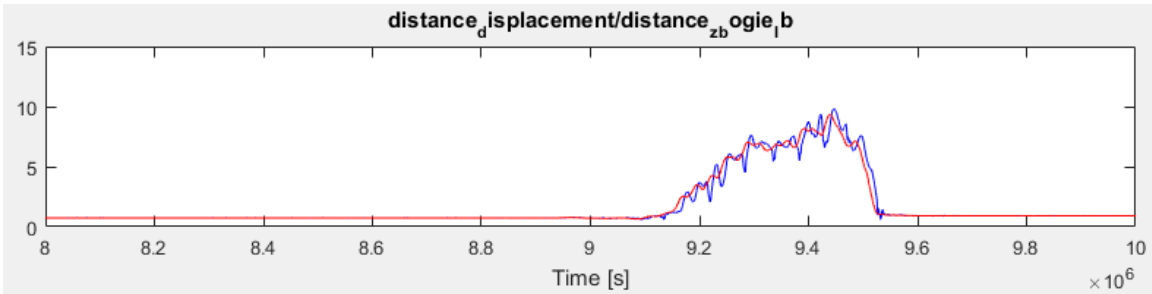
Tom.  
TU Delft

- DHL
- TENCATE
- Strukton Rail
- CGI
- VAC





**Results:** lift bogies height proving levitation up to 1 cm.







SPACEX

STOP

40



# NOW







# 2019

- Test
- Prove
- Certify
- Showcase





2021





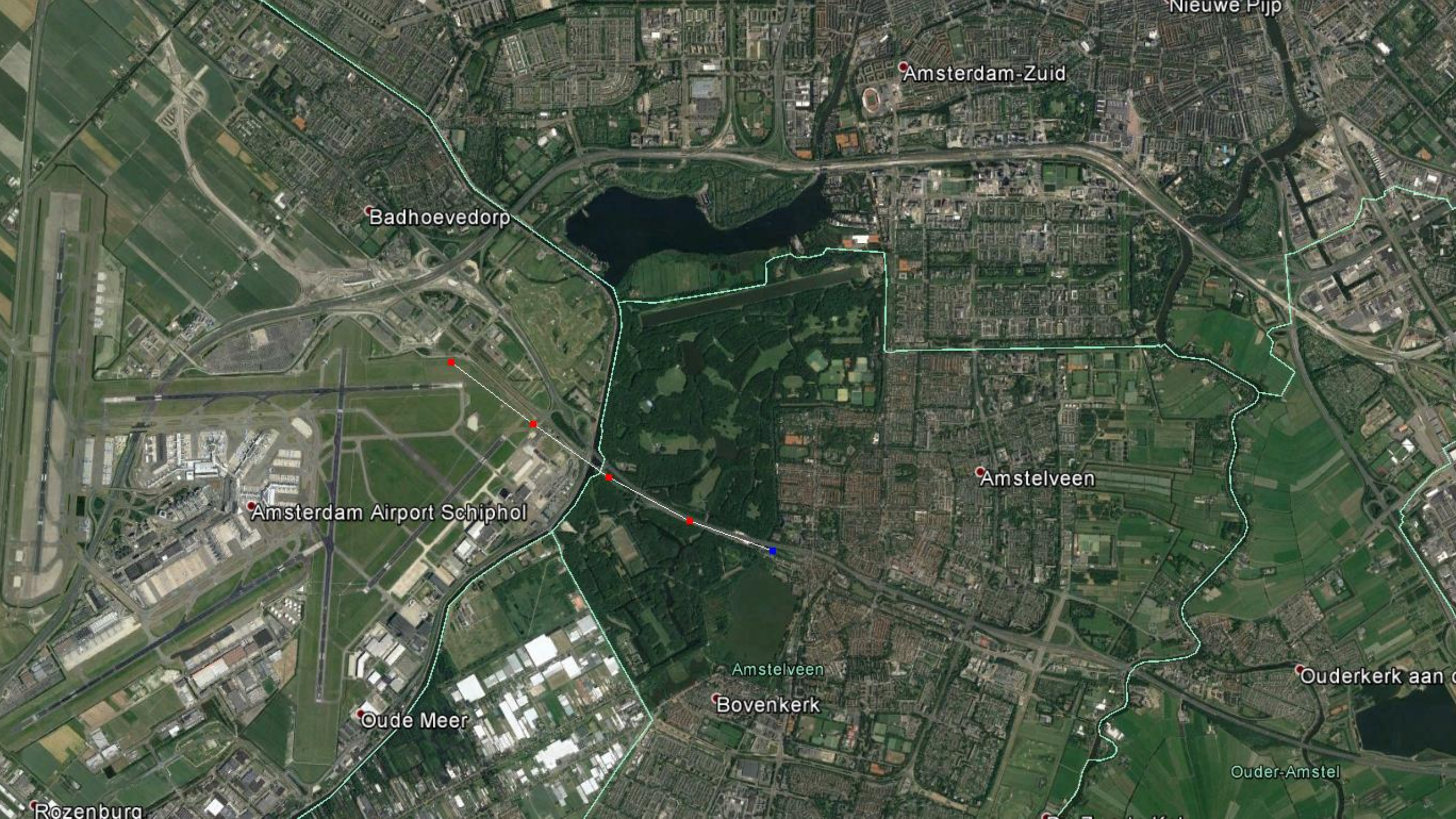
Infrastructure  
lay-out

Vehicle  
dynamics  
modelling

Control system  
implementation

Certification





Amsterdam-Zuid

Badhoevedorp

Amsterdam Airport Schiphol

Amstelveen

Oude Meer

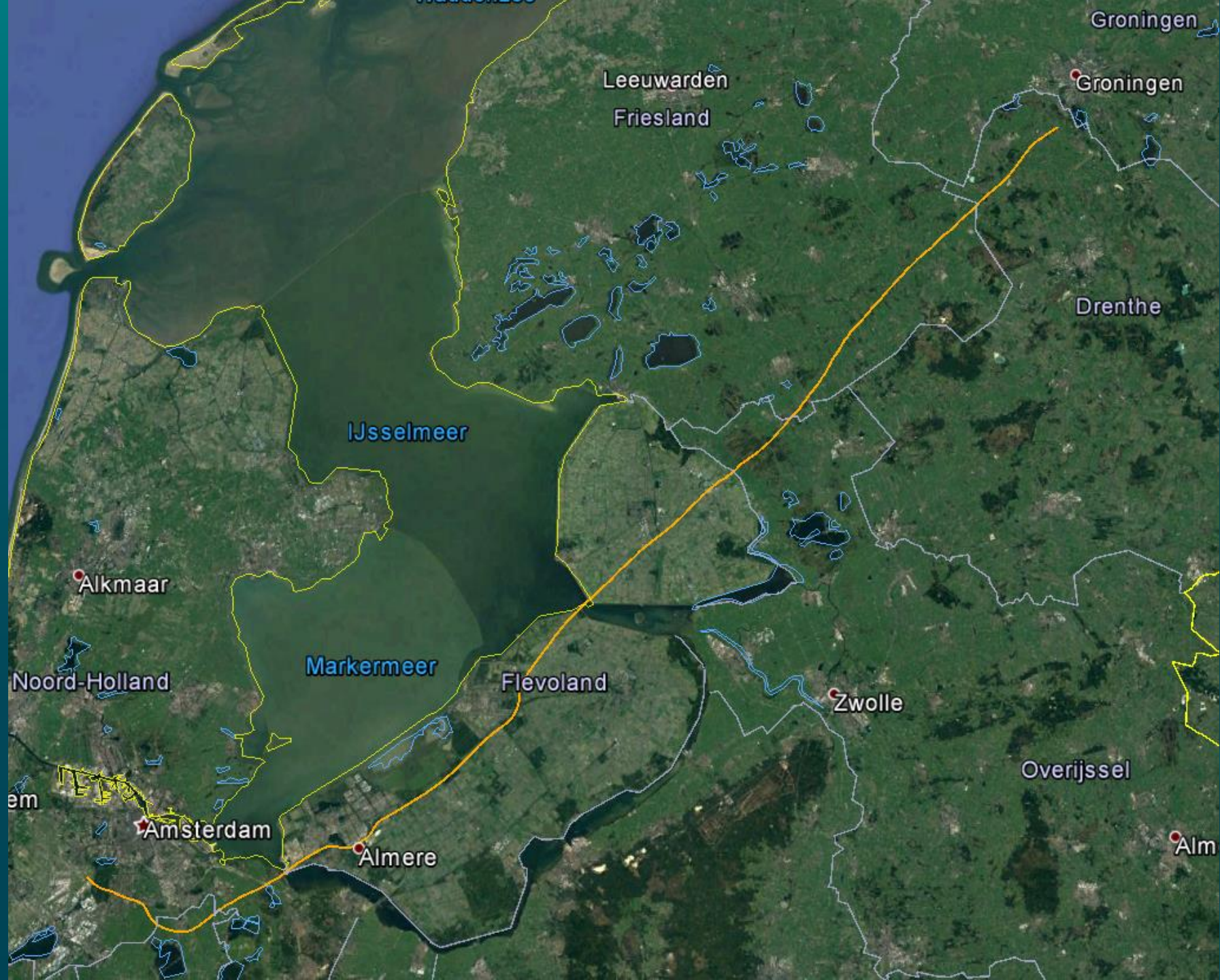
Bovenkerk

Ouderkerk aan de Amstel

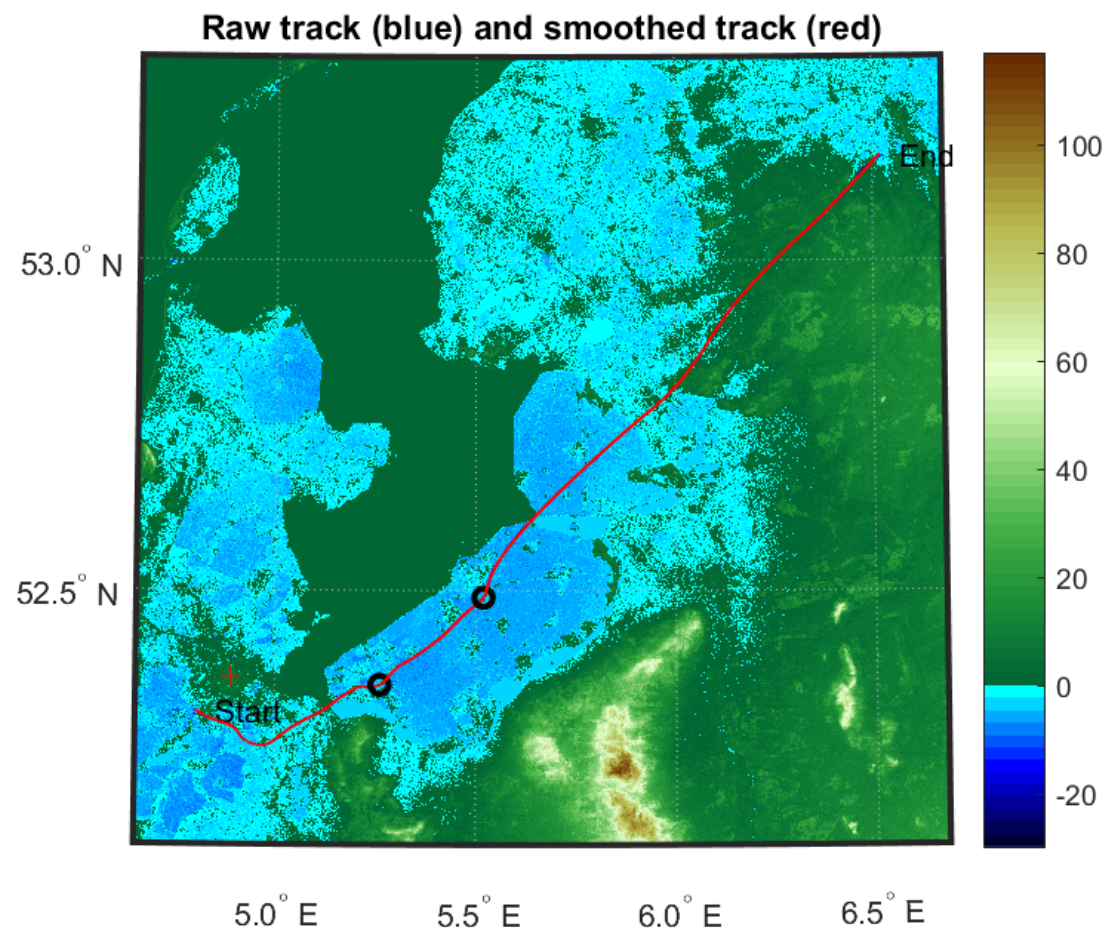
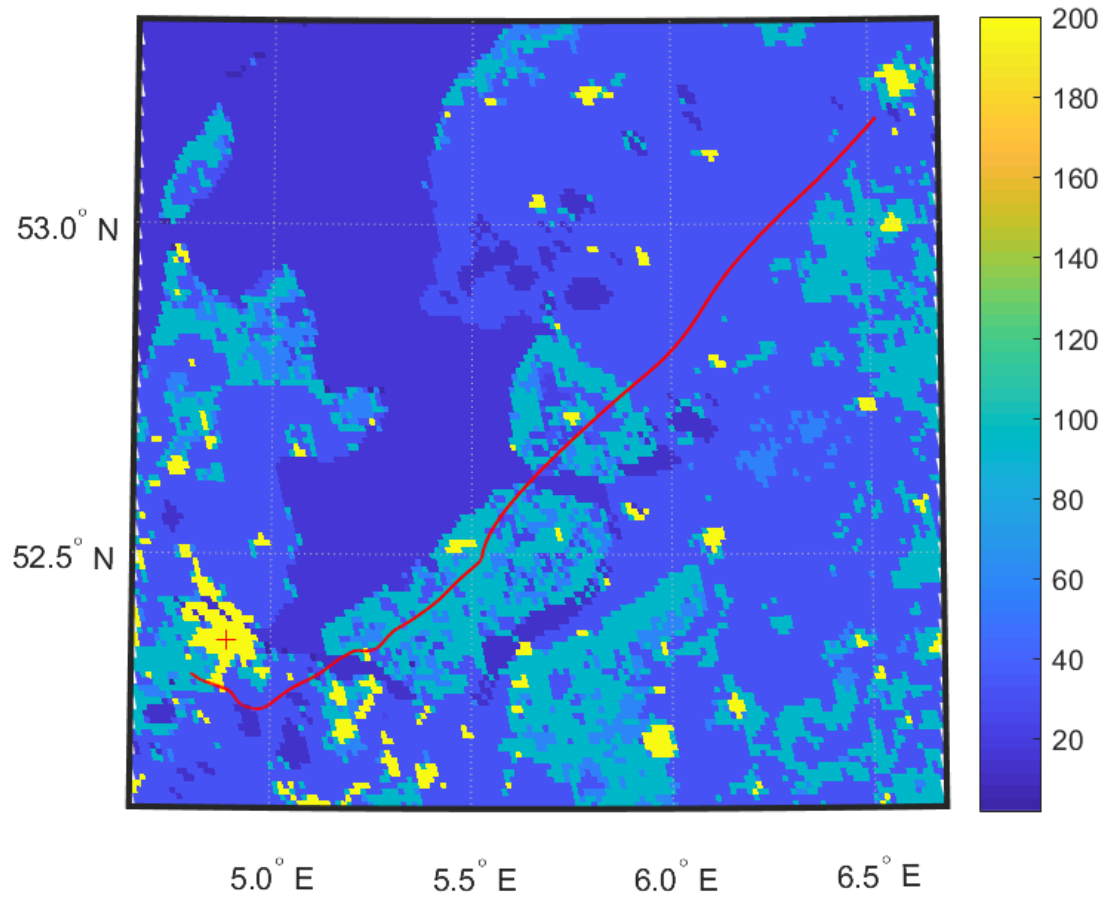
Ouder-Amstel

Rozenburg

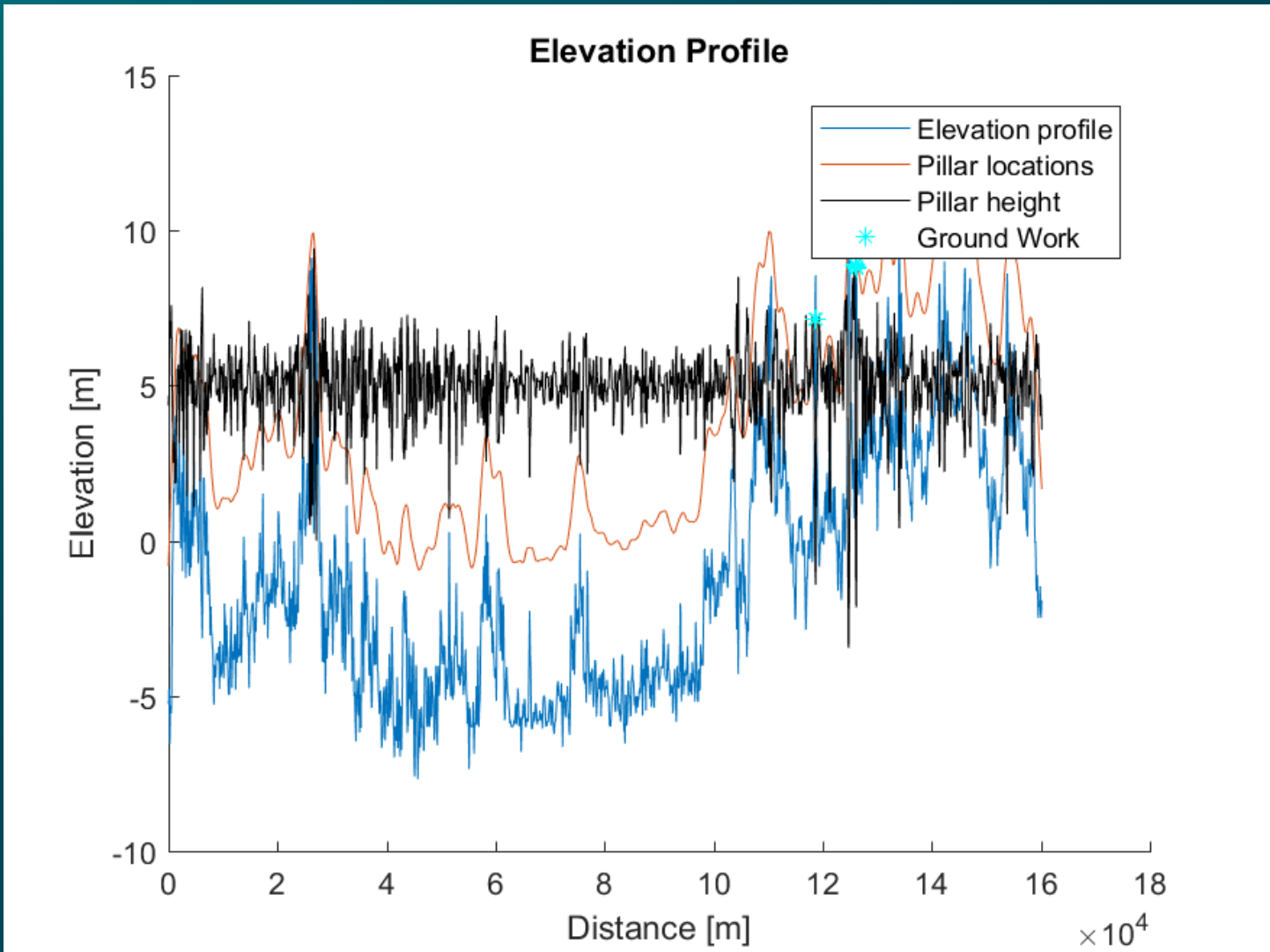




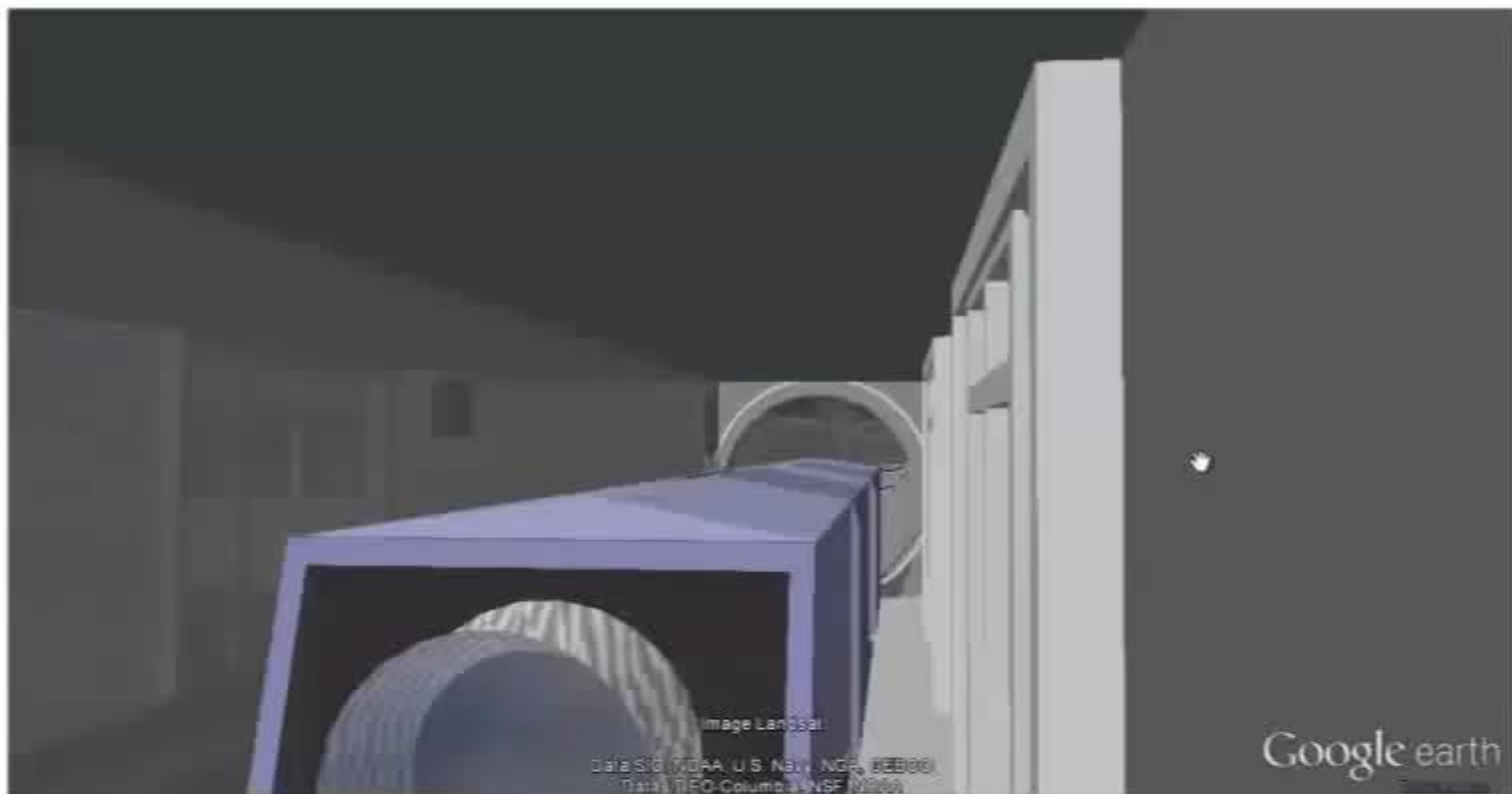






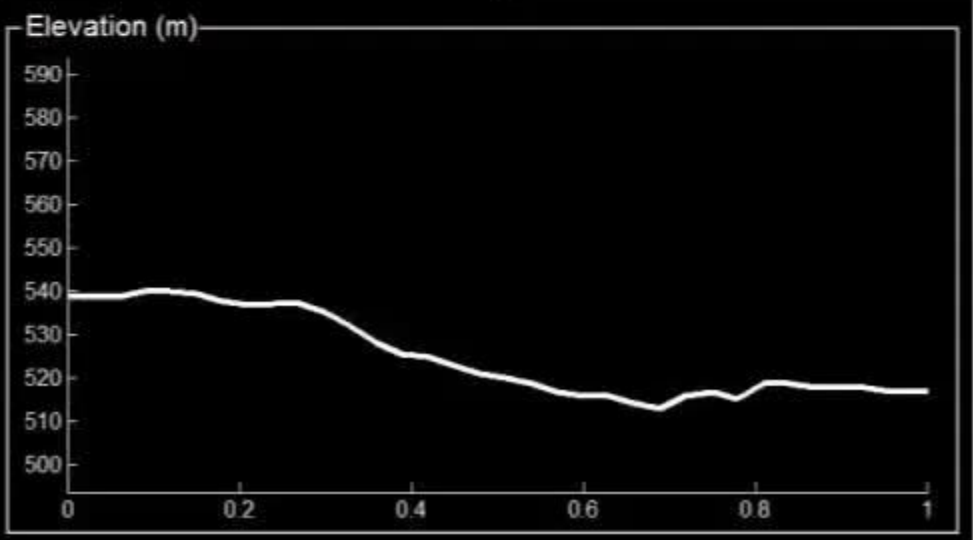
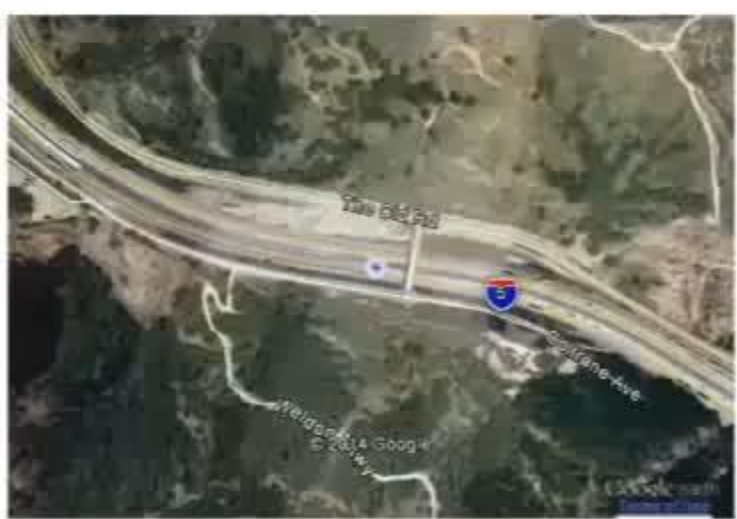




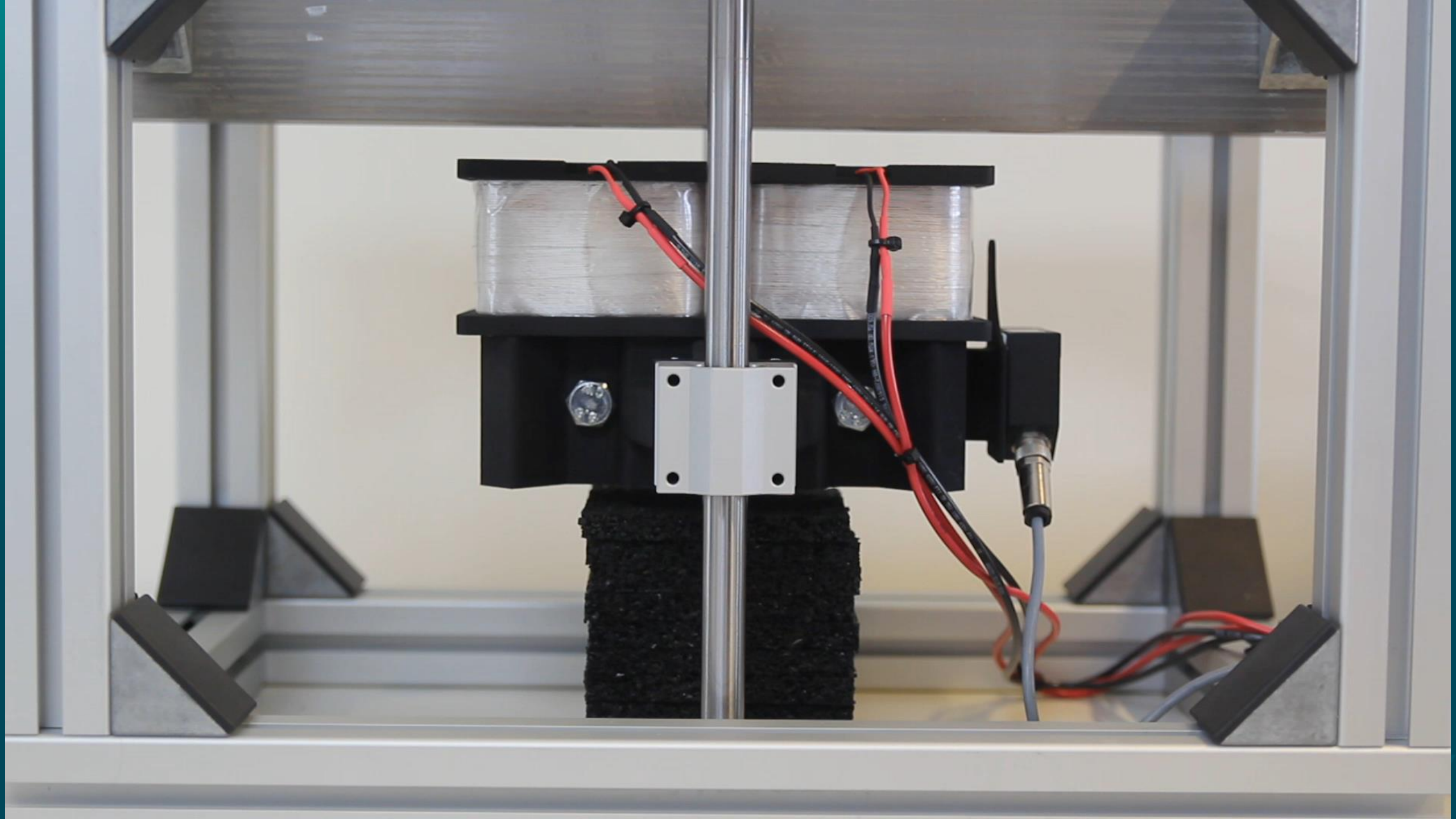


Status

Speed :	0 (mph)
Distance Traveled :	0.0 (miles)
Travel Time :	0:00
Time to Destination:	35:44





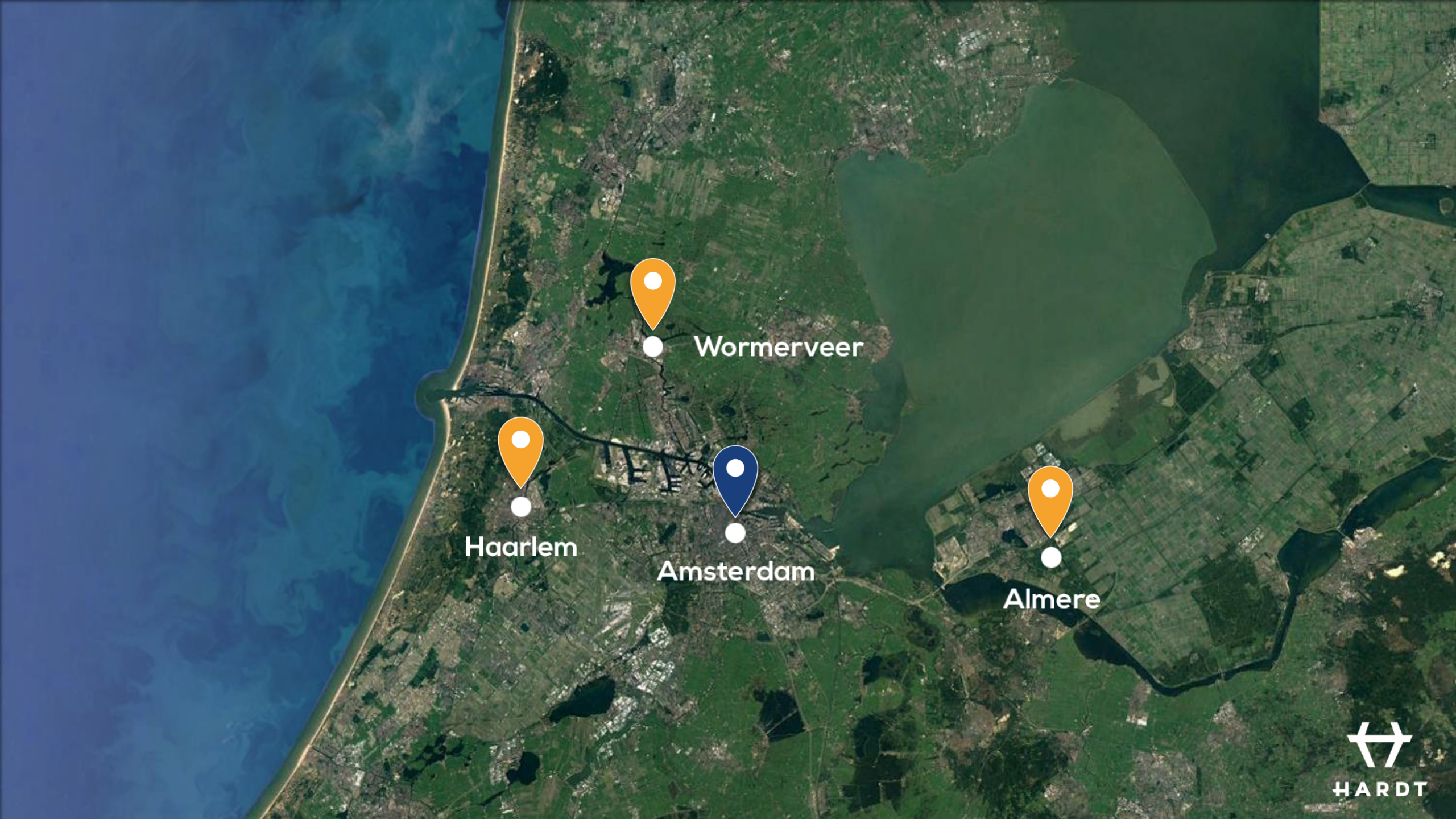


- Heating Ventilation and Air Conditioning (HVAC)
- Cooling
- Lighting
- Airlocks
- Life-support



# Certification





Wormerveer

Haarlem

Amsterdam

Almere





**THE  
NETHERLANDS**

**Amsterdam**





**THE  
NETHERLANDS**

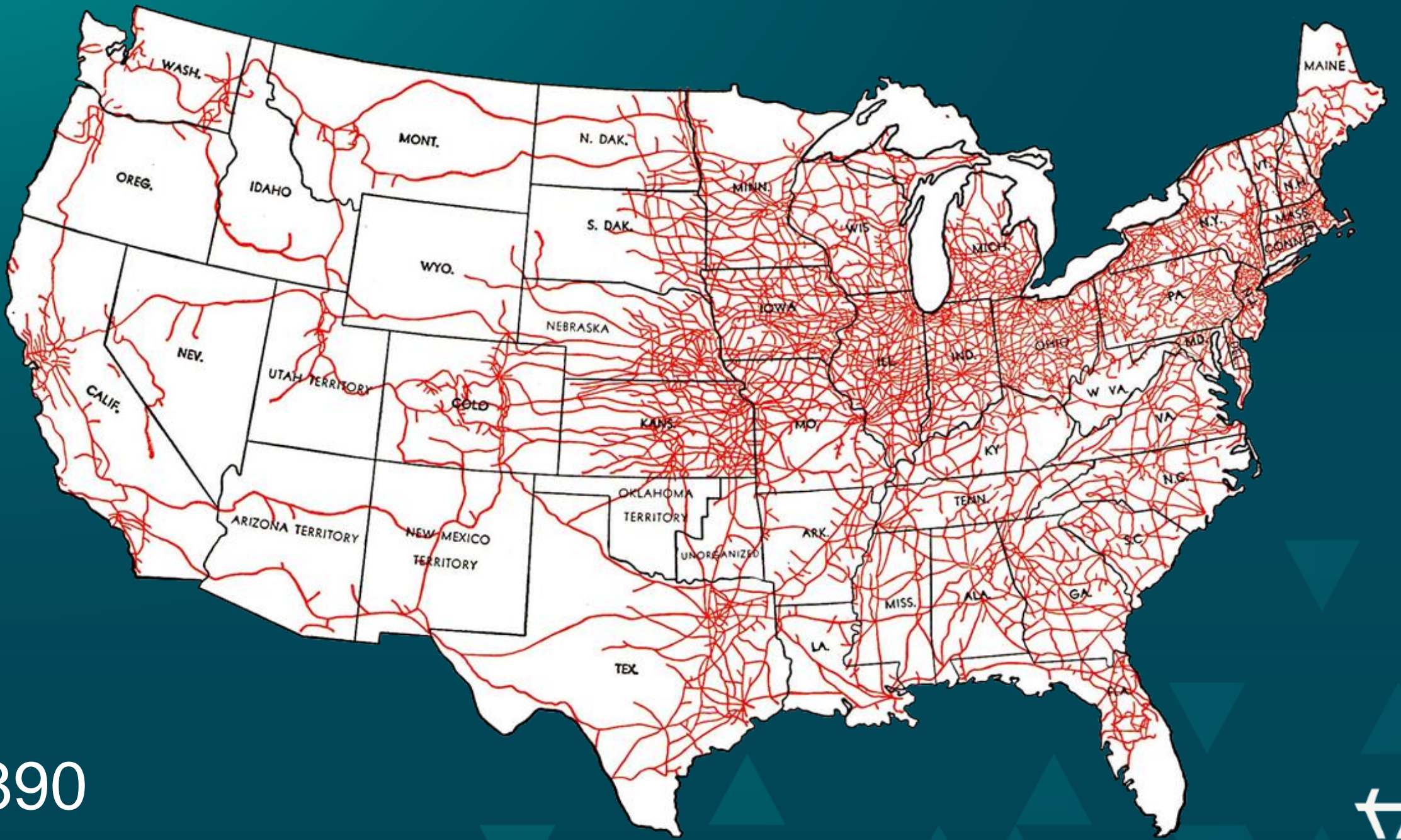
**Amsterdam**





1870





1890





STOCKHOLM

COPENHAGEN

DUBLIN

AMSTERDAM

BERLIN

LONDON

BRUSSELS

PRAGUE

PARIS

LUXEMBURG

VIENNA

BERN

MONACO

ROME

MADRID

LISBON





Regions where distance just doesn't matter

Freedom to live and work, wherever you want

Go anywhere, anytime