

The image features a blue-tinted view of Earth from space, showing the curvature of the planet and the dark, starry background of the cosmos. The logo and tagline are centered over the image.

**cloudflight**

co-creating digital value

# Hyperloop & Digital Platforms for seamless travel

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- 00 About us - Cloudflight Group
- 01 Become a Movement
- 02 Become an Industry
- 03 Co-Create Digital Value – Digital Platforms for seamless journeys



Ing. Mag. Dominik Rockenschaub  
[LinkedIn](#) | [dominik.rockenschaub@cloudflight.io](mailto:dominik.rockenschaub@cloudflight.io)

## My Motivation

*Driving mobility solutions of the future  
in the age of digitalisation with cutting edge  
technologies and the brightest heads.*

## About me

- seasoned agile project lead (Scrum, Kanban, scaling agile, ...)
- software engineer with a deep knowledge full web stack, mobile and web development

## Professional Career

- Since 2019: Member of the Cloudflight Management Board
- Since 2017: Head of Transport & Mobility at Catalysts
- 2013: Joined Catalysts as Senior Web Developer, Certified Scrum Master and Senior Agile Project Lead.



# Cloudflight

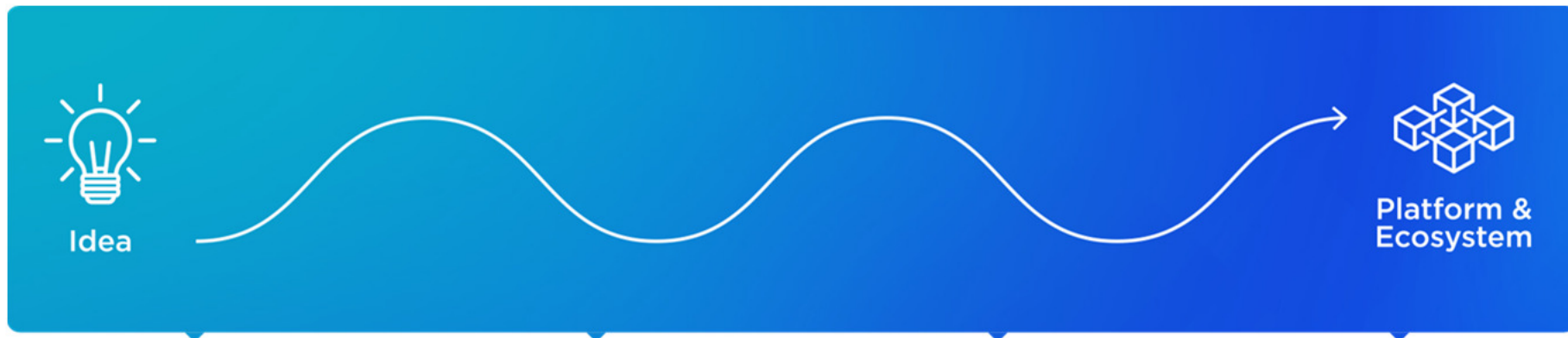
## Company Overview

Clients:



- We are: +400 software developers, cloud architects and digital strategists
- Full spectrum digital service provider (consulting, development, operations)
- 17 locations including 1 digital innovation lab and 2 cloud operation hubs
- + 600 successful software projects since 2005
- Focus areas: digital platform design, data-driven applications, cloud-native architectures and DevOps/SRE

## Digital Innovation Journey



### Design & Concept

**Co-Create** and set up the digital platform strategy, architecture and digital business model

### Test / MVP

Evaluate & test different options and **co-create** a PoC or MVP in just a few days

### Coding & Build

**Co-create** the digital platform aligned with recent trends of cloud native development & UX design

### Cloud Operations

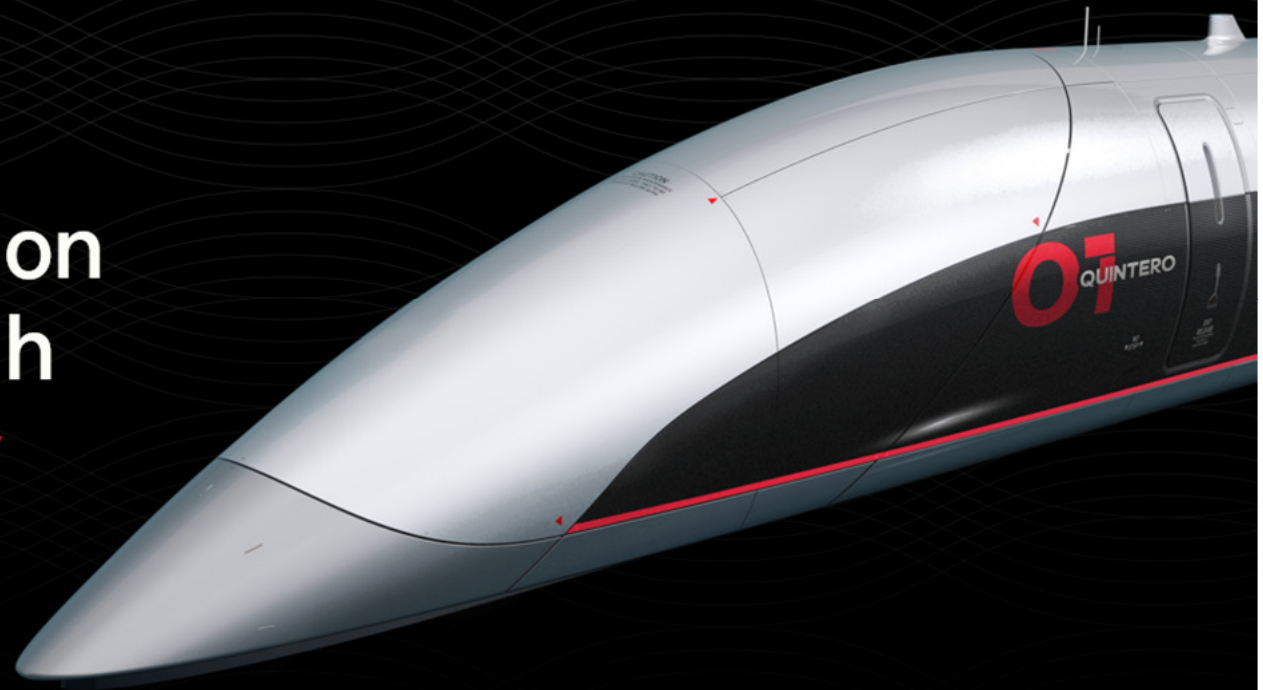
Run your digital platform and business model and **co-create** new innovations and improvements

# Hyperloop & Digital Platforms for seamless travel

Ing. Mag. Dominik Rockenschaub

Hyperloop

The First  
Transportation  
Breakthrough  
in a Century



## 01 Become a Movement

*A strong vision  
drives people to develop  
revolutionary technologies and  
solutions*





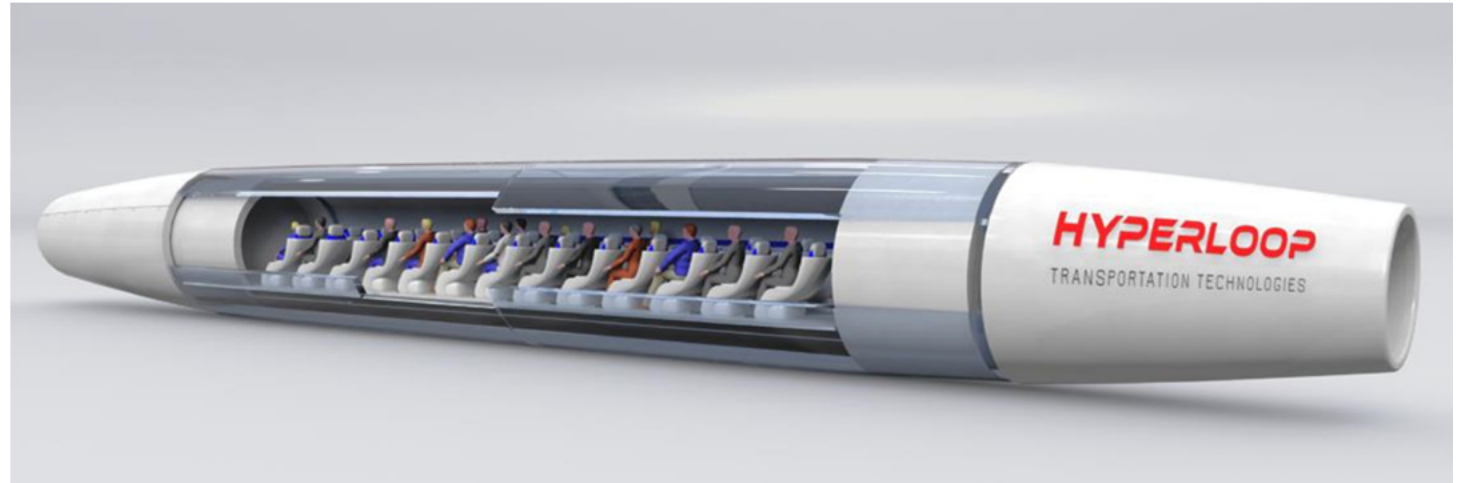
## Hyperloop Transportation Technologies

HTT is a collaborative organization founded in 2013 with the goal of revolutionizing transport over long distances.

- superfast, up to 1,200km/h in a vacuum tube
- no external power, fully electric
- environmentally friendly
- safe
- high comfort

... including toilets ;-)

... and solutions to fight motion sickness.



An aerial photograph of a long, narrow bridge spanning a desert valley. The bridge's surface is covered in a grid of solar panels. The surrounding landscape is arid, with sparse green shrubs and small trees scattered across the sandy ground. A vertical red line runs down the center of the image, passing through the bridge.

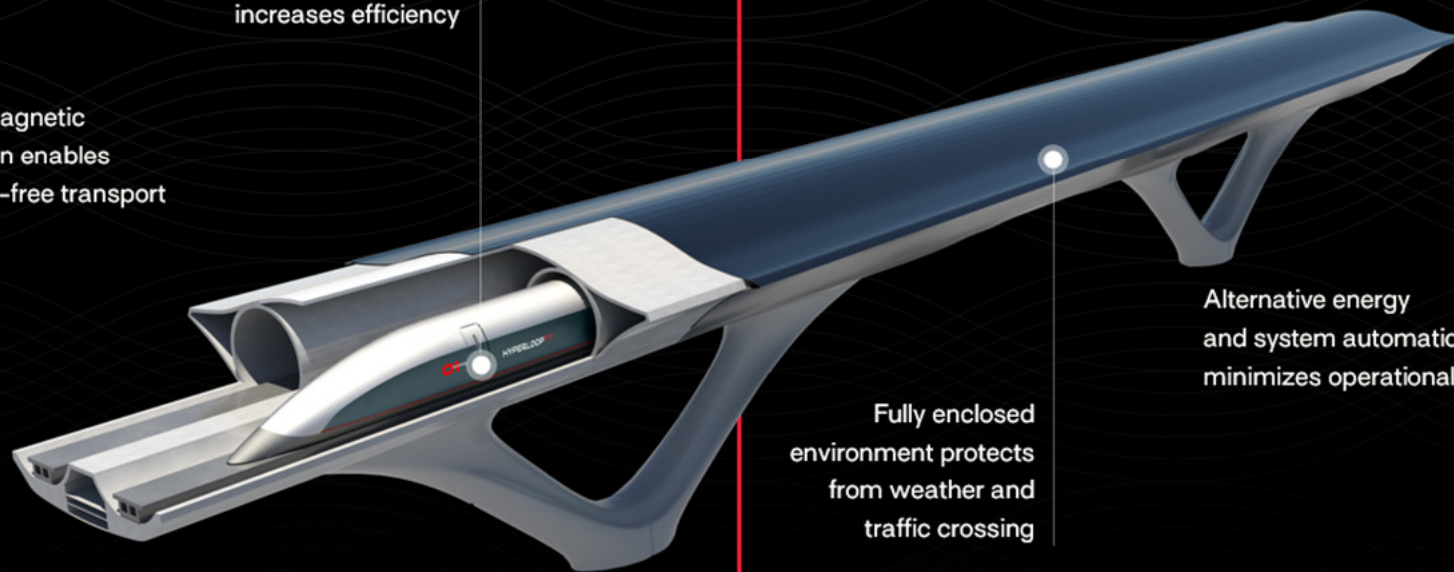
**World's first fully sustainable  
transportation system**

...producing more energy  
than it consumes

# How It Works

Levitated capsule  
reduces friction,  
increases efficiency

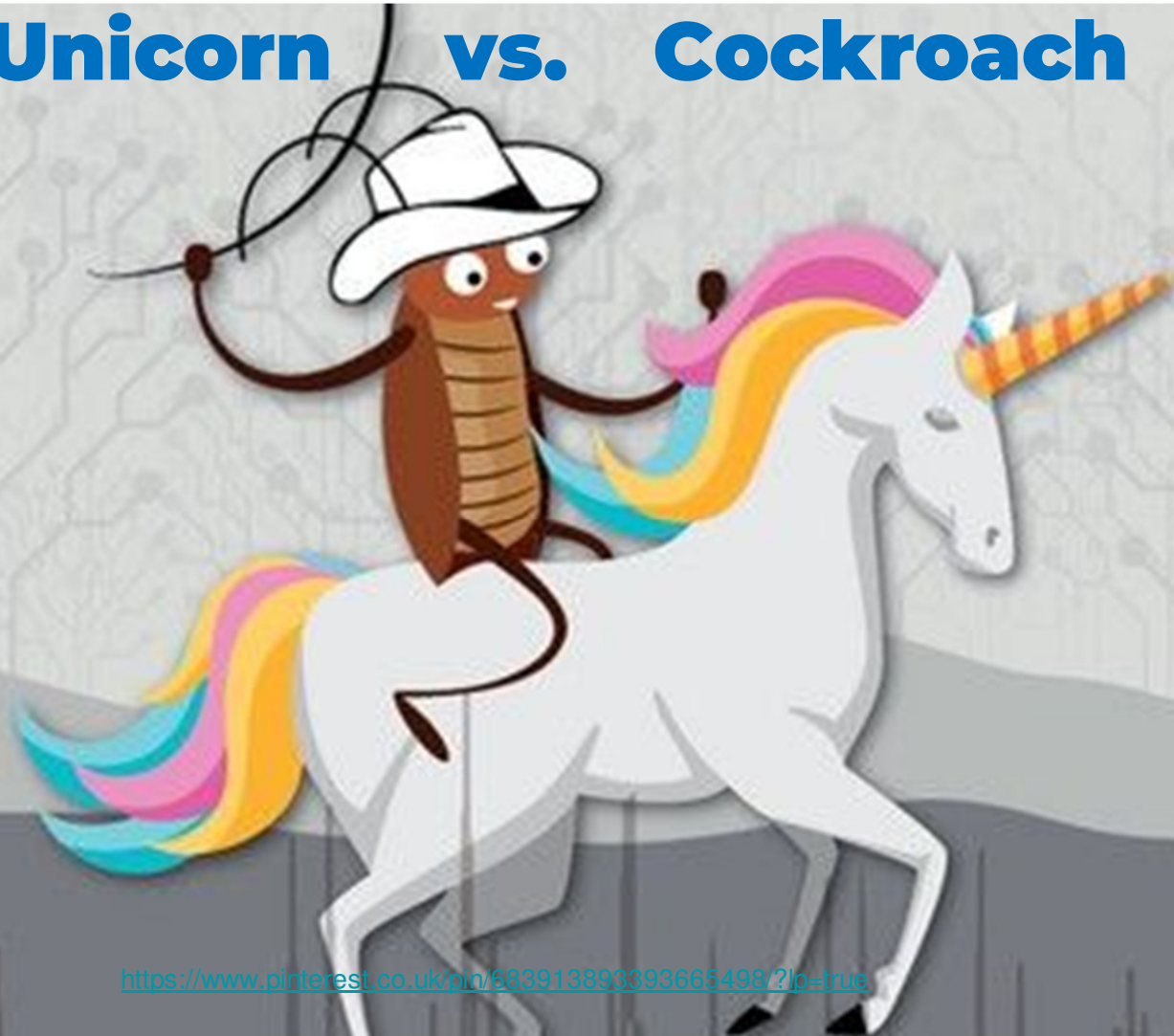
Electromagnetic  
propulsion enables  
emission-free transport



Alternative energy  
and system automation  
minimizes operational costs

Fully enclosed  
environment protects  
from weather and  
traffic crossing

# Unicorn vs. Cockroach



<https://www.pinterest.co.uk/pin/603913893393665498/?lp=true>

An aerial rendering of a futuristic city at dusk. A prominent feature is a hyperloop track that curves through the urban landscape. The track is a sleek, white, tube-like structure supported by pillars. The city below is a mix of modern, multi-story buildings and green spaces. A large, circular, white structure with a central opening is visible in the middle ground. A magnifying glass is positioned in the lower-left corner, focusing on the 'HYPERLOOP TT' logo. The background shows a vast cityscape extending to the horizon under a soft, golden light.



# HYPERLOOP TT

→ Join the team

→ [www.hyperlooptt.com](http://www.hyperlooptt.com)

# Cloudflight Services

co-create digital value

|   | Services  | Business Models   | Customers   | Numbers 2017  |
|---|---|---|---|---|
| Hidden Champions & World Market Leaders in Europe | <ul style="list-style-type: none"> <li>Individual Software Development for Predictive Analytics</li> <li>Big Data, Artificial Intelligence</li> <li>Condition Monitoring</li> <li>Predictive Maintenance</li> <li>Machine Learning</li> <li>High Performance Computing</li> </ul> | <ul style="list-style-type: none"> <li>- Pay per Use</li> <li>- Agile Fixed Price</li> <li>- Time &amp; Material</li> </ul> |  <p>+ &gt;80 additional Hidden Champions</p> | <ul style="list-style-type: none"> <li>250 employees</li> <li>Every 7 hours on average another qualified project request</li> <li>3.000+ applicants per year</li> </ul> |
| Start-Ups   | <ul style="list-style-type: none"> <li>Clusters &amp; Supercomputing</li> <li>Industry 4.0, Storage &amp; Compute</li> <li>Clouds, Large Agile and Lean</li> <li>SW Projects</li> </ul>   | <ul style="list-style-type: none"> <li>- Cash Investment</li> <li>- Work4Equity</li> <li>- Sweat Money</li> </ul>           |  <p>+ 7 additional Start-Ups</p>             | <ul style="list-style-type: none"> <li>&gt;6M USD Cash Investment</li> <li>&gt;20.000 h / year</li> </ul>   |



## Step 1 Become a Movement

2014 - 2018

By end of 2018 about 30 hyperloop companies are active



**October 2018** Presentation of HTT full scale passenger capsule



When a vision awakes to live...

## CCC - Catalysts Coding Contest: Finding Talents

Since 2007 Cloudflight organizes the CCC for talent search.

A global coding contest with 8.000+ participants every year! 20% pros; 42% students; 38% pupils

~20% of participants are top!

we've solved the Software Developer Constraint!



[Teaser](#)  
[Video Linz](#)

2020-April  
Worldwide



**SHOW STRENGTH.**  
[codingcontest.org/register](https://codingcontest.org/register)

**CATALYSTS  
CODING  
CONTEST**

THE BIGGEST ONSITE CHALLENGE

# Hyperloop Roadmap



**July 2012 -**  
Hyperloop  
Presentation by Elon  
Musk



**June 2016 -** SpaceX  
announced sponsoring  
of a Hyperloop pod  
design competition

**HYPERLOOP**  
TRANSPORTATION TECHNOLOGIES  
+  
**Catalysts**

**December 2016 -**  
Catalysts became major  
investor of HTT (which  
received total funding of  
100 Mio. \$)

2012-2016

**November 2013 -** Hyperloop  
Transportation Technologies founded  
Goal: Revolutionizing transport over  
long distances.



**July 2016 -** Hyperloop  
Digital Innovation Challenge  
powered by Catalysts  
@Bratislava



**2016 -** Signed contract for  
Hyperloop in Bratislava - we  
accompanied HTT CEO Dirk  
Alborn.



co-create digital value

[See Video](#)



**2017** - Development of Public Transport Simulation Platform for Route Optimisation Planning

**2017** - Signed contracts for Hyperloop with Indonesia, Czech Republic, Toulouse

**2018-2019** Contributing to Hyperloop Travel Platform PoC, developed by XO.labs

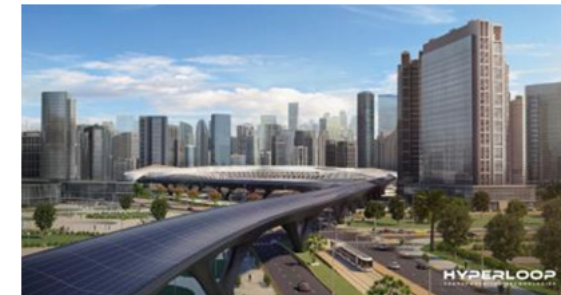
**2019-2020** - Finished full scale Test-Track in Toulouse / France

2017-2020 ... tbc

**2016/2017** Hyperloop Marketplace Conception Phase Catalysts + HTT. Plan to build huge parts of the backend.

**October 2018** Presentation of HTT full scale passenger capsule

**2018** Announcement of building the first commercial Hyperloop Systems in China and UAE





**Tackling challenges of humanity**  
Requires radical collaboration

# Bringing Visionaries Together

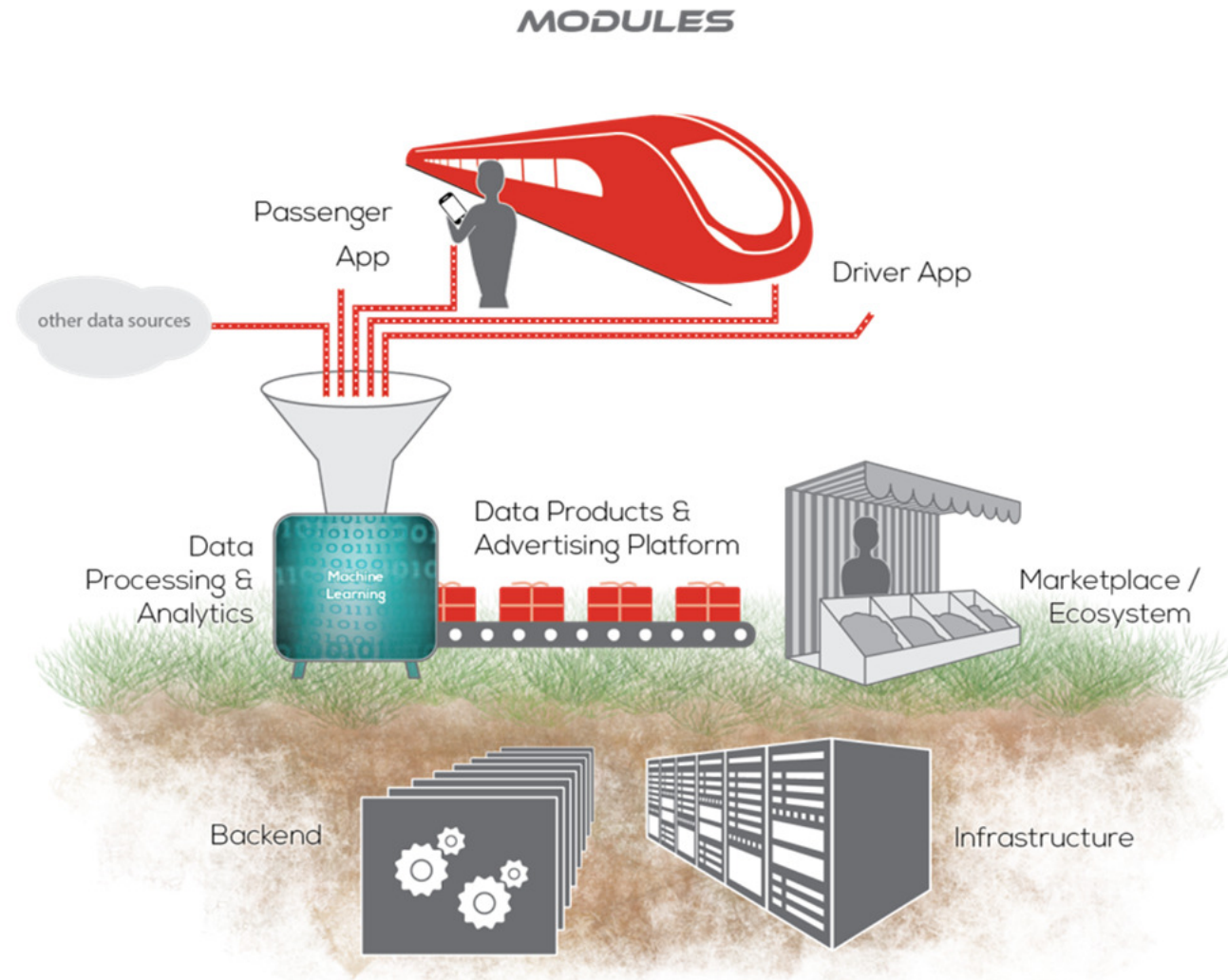
50+  
Partners

800+  
Experts

50+  
Countries

## Make money with data

Catalysts (a Cloudflight company), as an investor and developing partner of Hyperloop, builds the backend.





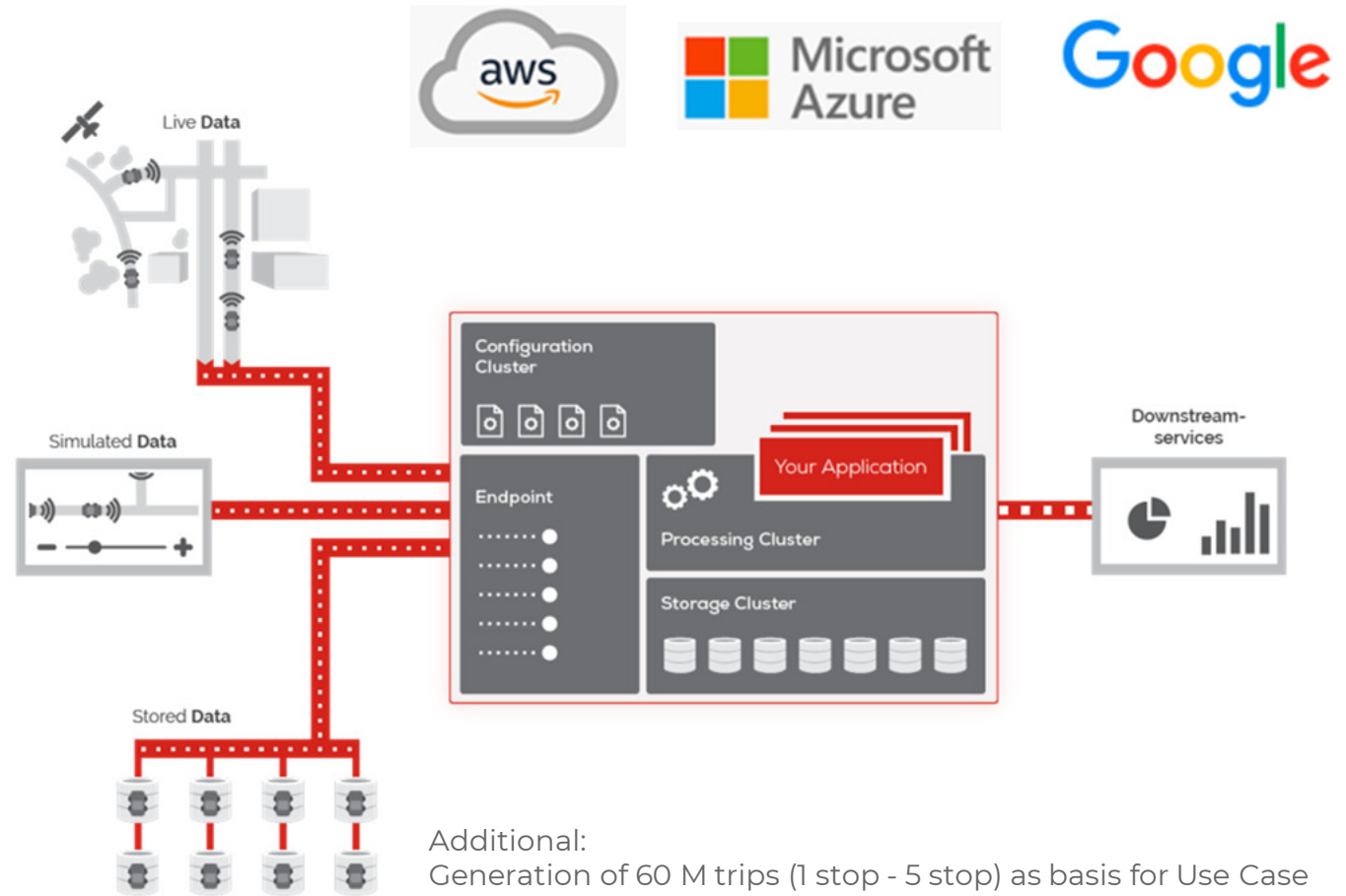
## IoT-Cluster

Cluster backend receives data streams from sensors, OBU's.

**1 Mio events** per second for 2,5 years < 1kW

Operated on-premise and public cloud.

Fully Software Defined Cluster  $\Rightarrow$  Infrastructure as Code



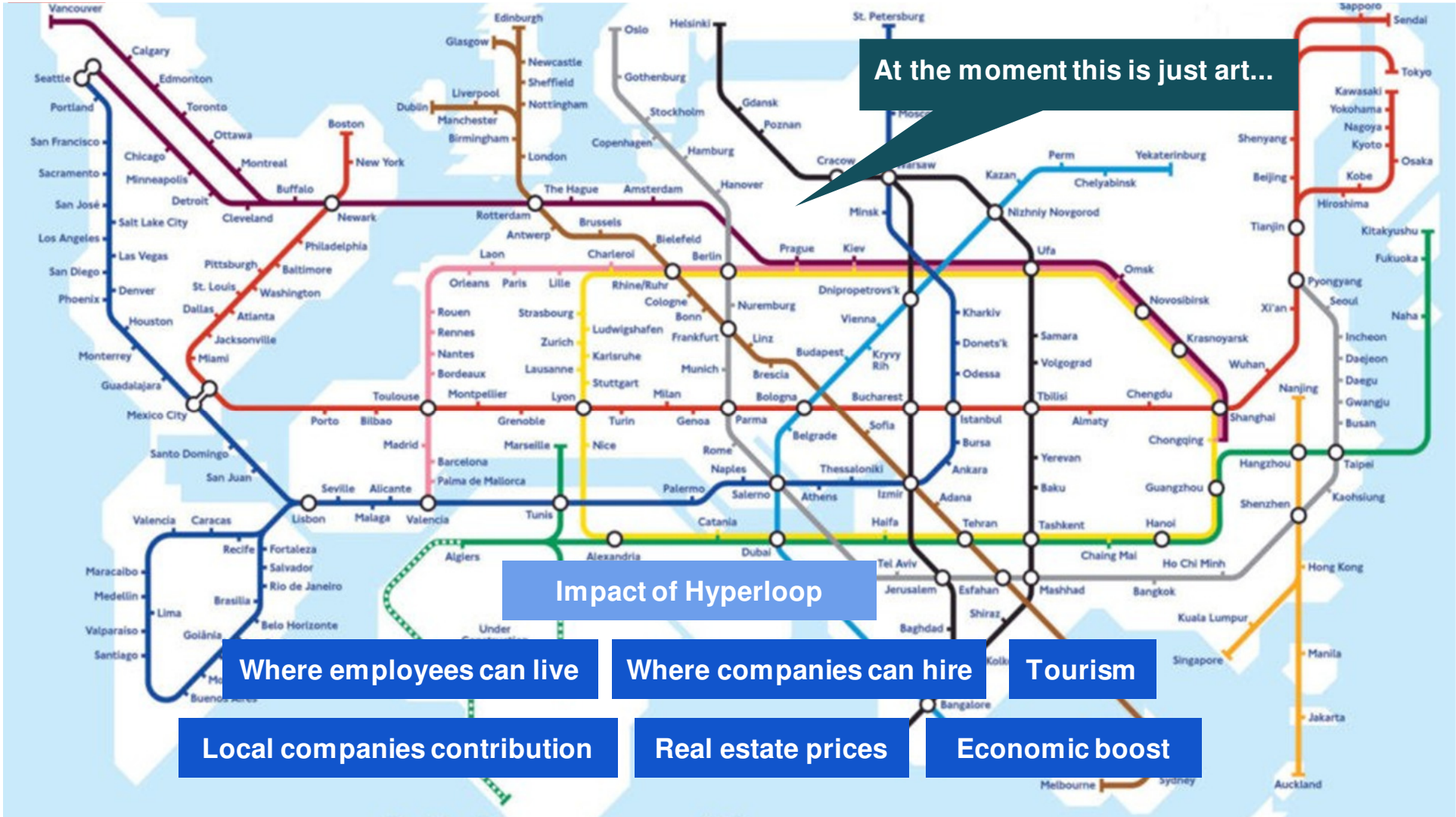


## Step 2 Become an Industry

2019 - 2025

*Emerging technologies are enabler for innovative solutions. Emerging markets will develop and industries will evolve (Hyperloop, Tesla, ...).*

HYPERLOOP **TT**



At the moment this is just art...

Impact of Hyperloop

Where employees can live

Where companies can hire

Tourism

Local companies contribution

Real estate prices

Economic boost

# Global Presence

## Great Lakes United States

- | Multi-state Hyperloop Feasibility Study in progress
- | Public-Private Partnership

## Los Angeles United States

- | Headquarters

## São Paulo Brazil

- | Local office

## Hamburg Germany

- | Joint Venture with HHLA
- | Port of Hamburg Operator

## Toulouse France

- | R&D Center and local office
- | First full-scale test track

## Barcelona Spain

- | Local office

## Abu Dhabi & Dubai UAE

- | Hyperloop Feasibility Study completed
- | Agreement for first commercial passenger Hyperloop system
- | Local office

## Brno Czech Republic

- | Hyperloop Feasibility Study

## Bratislava Slovakia

- | Hyperloop Pre-feasibility Study completed
- | Local office

## Kiev Ukraine

- | Agreement with Infrastructure Ministry for passenger commercial line

## Andhra Pradesh India

- | Hyperloop Pre-feasibility Study completed
- | Public-Private Partnership

## KICT South Korea

- | Co-development agreement

## Tongren China

- | Joint Venture with Tongren Government for passenger commercial line

## Jakarta Indonesia

- | Hyperloop Feasibility Study

HYPERLOOP TT

## 2019 – 2025

2019 Regulatory Framework with TÜV SÜD and EC

2 x 600 meter in Toulouse in 2020

10 km in Dubai 2022 - signed

125 km full operative Hyperloop between Dubai and Abu Dhabi in 2025  
([See Video](#))

Today 800+ Contributors and 50+ Corporate partners work on HTT's vision

Hyperloop Brand value estimated at 7 Bn USD



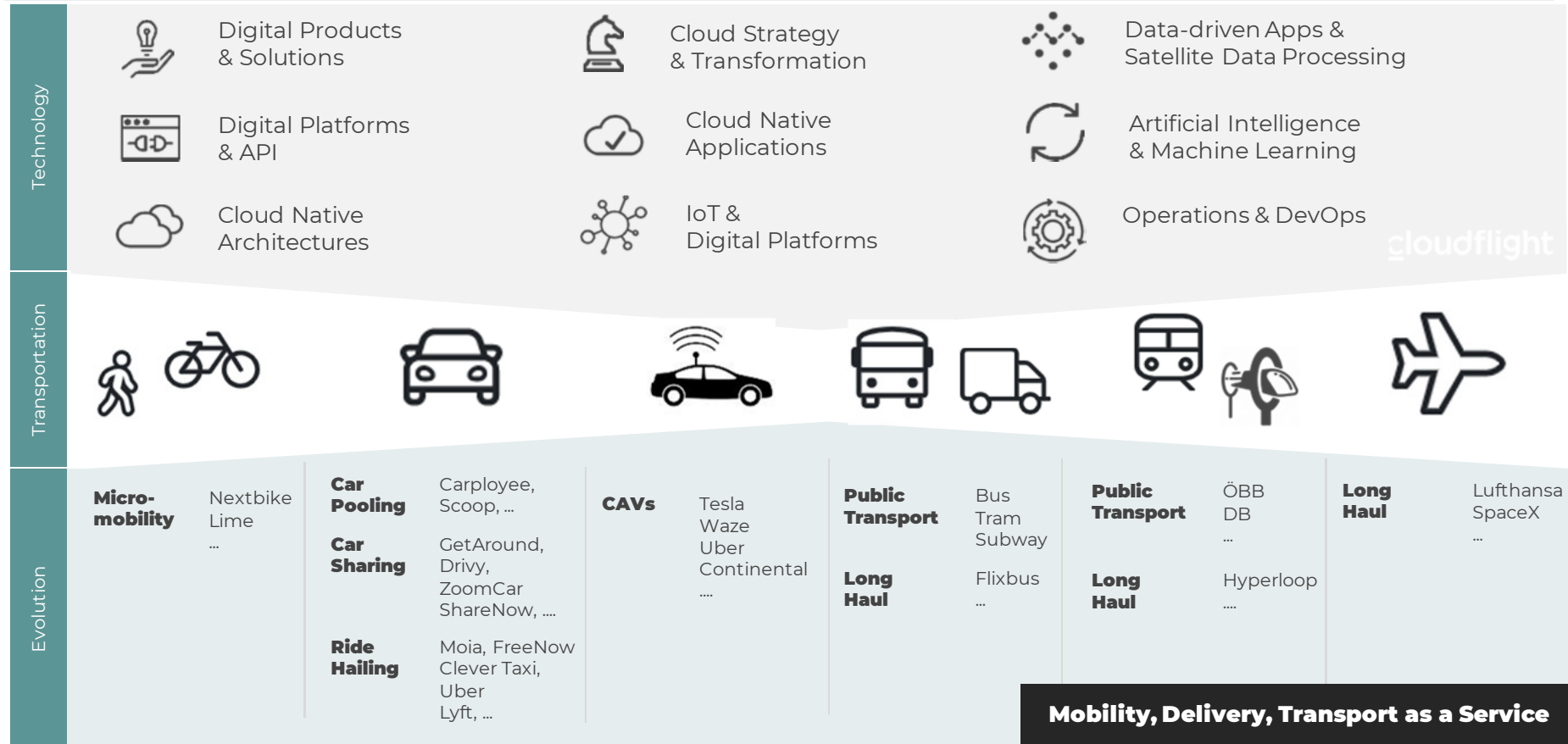
### 03 Co-Create Digital Value

*We combine Emerging Technologies, Large Scale & Agile Software Development, deep individual software development experience with a young, talented and agile minded team to tackle challenges of future mobility.*

## Expectation: Seamless Customer Journey

co-create digital value

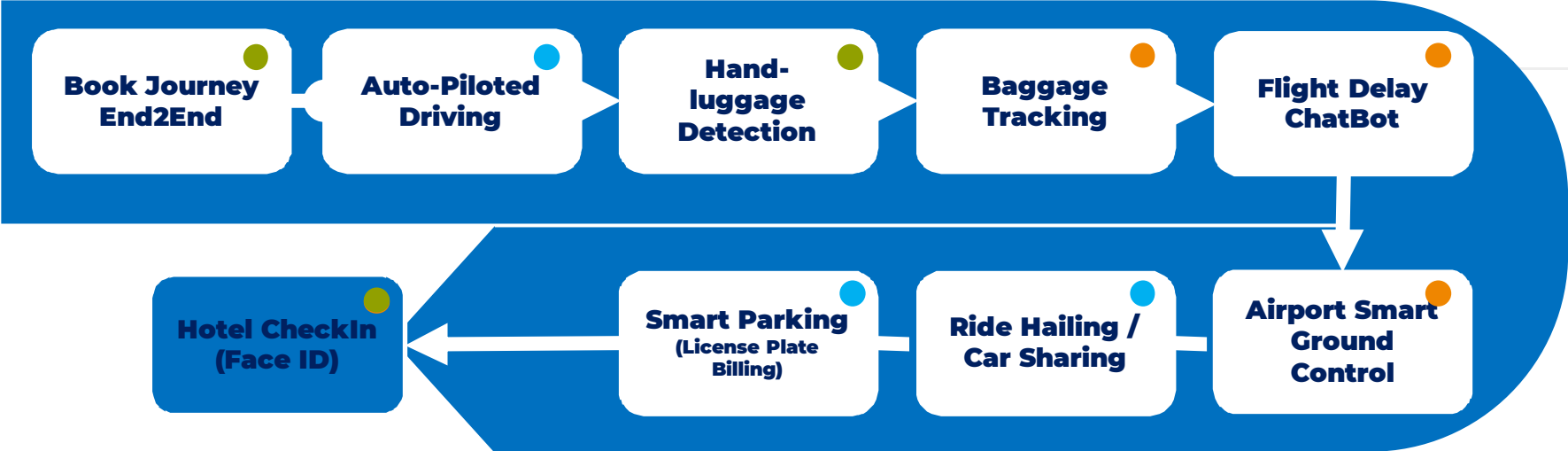
### Digital Platforms support Data Driven Business Models



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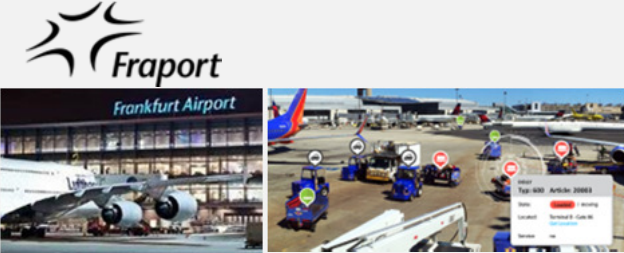
# Seamless Customer Journey: Traveling from Frankfurt to Barcelona



Software Solutions powered by **cloudflight**

● Trend Radar ● PoC available ● Project

### Clients & Partner







# AUTOMATED HAND LUGGAGE DIMENSIONING

Easy & Seamless Walk-through





to create digital value

[https://si.wsj.net/public/resources/images/PJ-BF115\\_MIDSEA\\_G\\_20120201194806.jpg](https://si.wsj.net/public/resources/images/PJ-BF115_MIDSEA_G_20120201194806.jpg)

cloudflight

**WHEN:**

Thursday, 16:30  
March 5th 2020

**WHO:**

Cloudflight GmbH  
(aka. Catalysts GmbH)

**WHERE:**

Austria Campus 6  
Walcherstraße 1a/3  
3rd floor, 1020 Vienna

# GET INSPIRED

## Office opening Vienna

cloudflight

**TIMETABLE:**

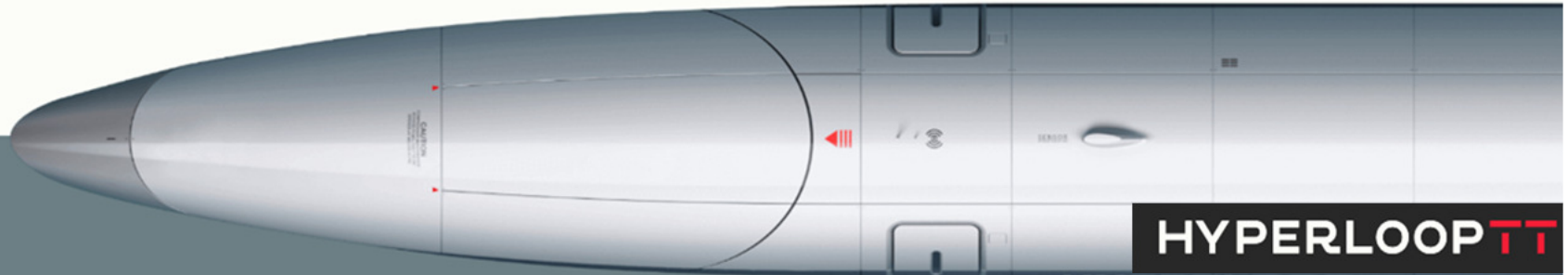
16:30 Opening Doors  
17:00 Opening Talk: From Catalysts to Cloudflight  
17:15 Talks: Design-Build-Operate  
18:30 Get Inspired by Cloudflight: get to know our projects & future-plans  
21:00 Cloudflight Band

We would like to take you on a digital innovation journey in Vienna on the 5th of March, 2020 from 16:30. Let us present to you the Cloudflight group: who we are, how we work and which opportunities open up in the digital future. We prepare a great program around topics from our current projects.

Don't forget to get your free eventbrite ticket and spread the word among your partners and friends. We are looking forward to having you in our shiny new office in the 2nd district in Vienna.

[getinspiredvienna.eventbrite.ca](https://getinspiredvienna.eventbrite.ca)

# Thank you for your attention!



## The Future Is Now Boarding

**cloudflight**  
co-creating digital value

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München

[www.cloudflight.io](http://www.cloudflight.io)