



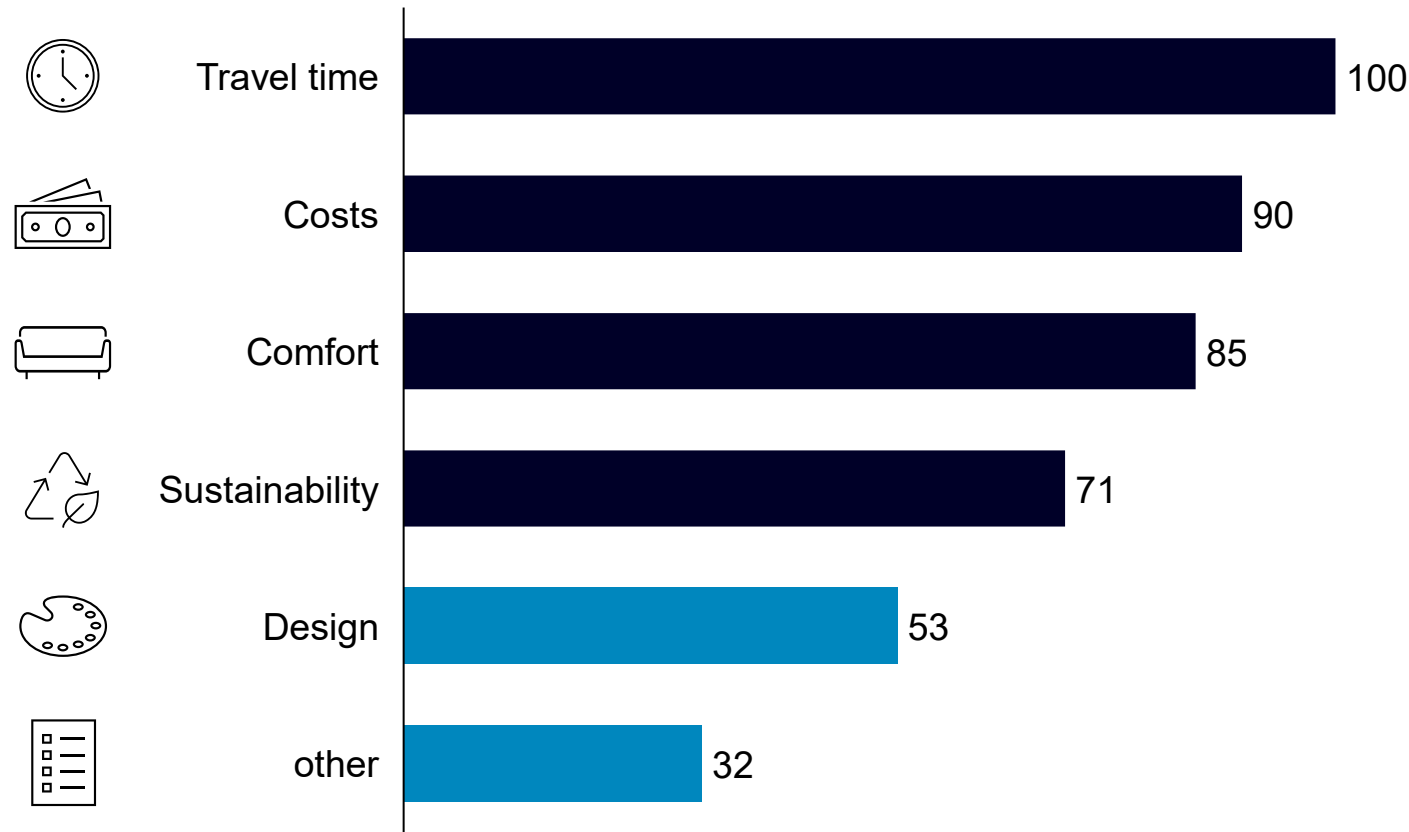
Siemens Mobility

Use cases and trends in highspeed rail

Tampere, January 17th/18th, 2023

Why do passengers use highspeed rail (HSR) as a preferred transport mode ?

Major reasons for modal choice of public transport users (in percent)

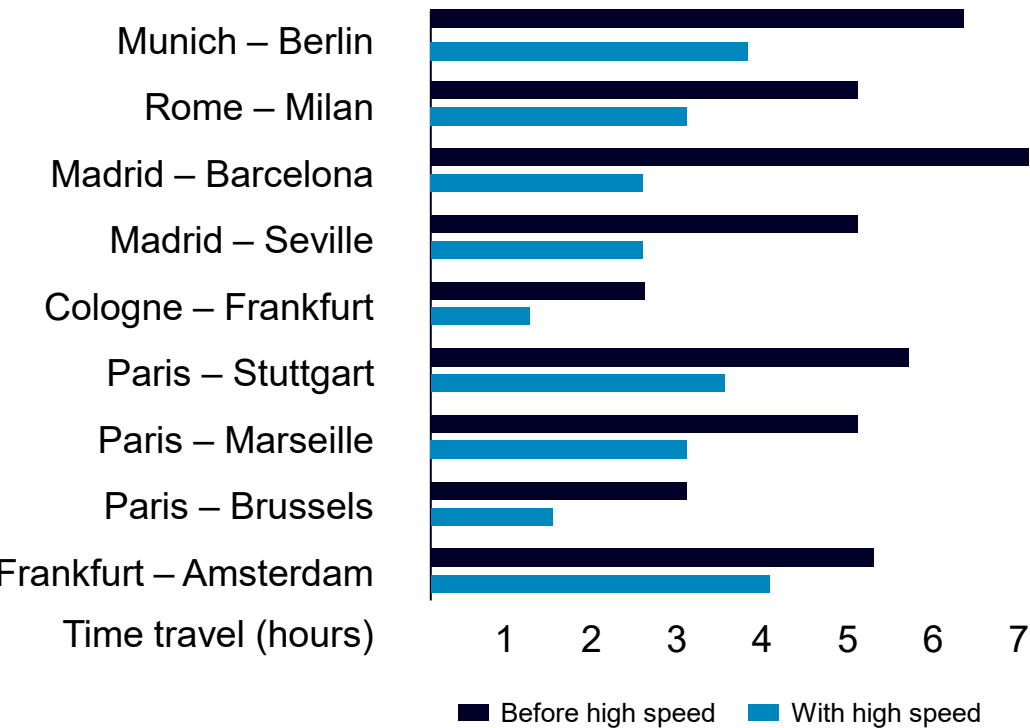


Source: Rail Interior Design Summit 2022, Sample N= 1647

Many European examples show: Introducing high speed railway services provides significant positive impact on modal share of rail

Shorter travel times as driver for higher market share of rail

Examples of travel time reduction



Fast inter-connections in EU as trigger for modal shift to rail

Munich – Berlin (600 km / 3:57 hour, in %)

Before ICE HSR



After ICE HSR (year one after start of operations)



Madrid – Seville (470 km / 2:15 hours, in %)

Before Ave



After Ave



Train



Plane



Car / Coach

#MovingEgypt

A modern rail system that will transform the everyday



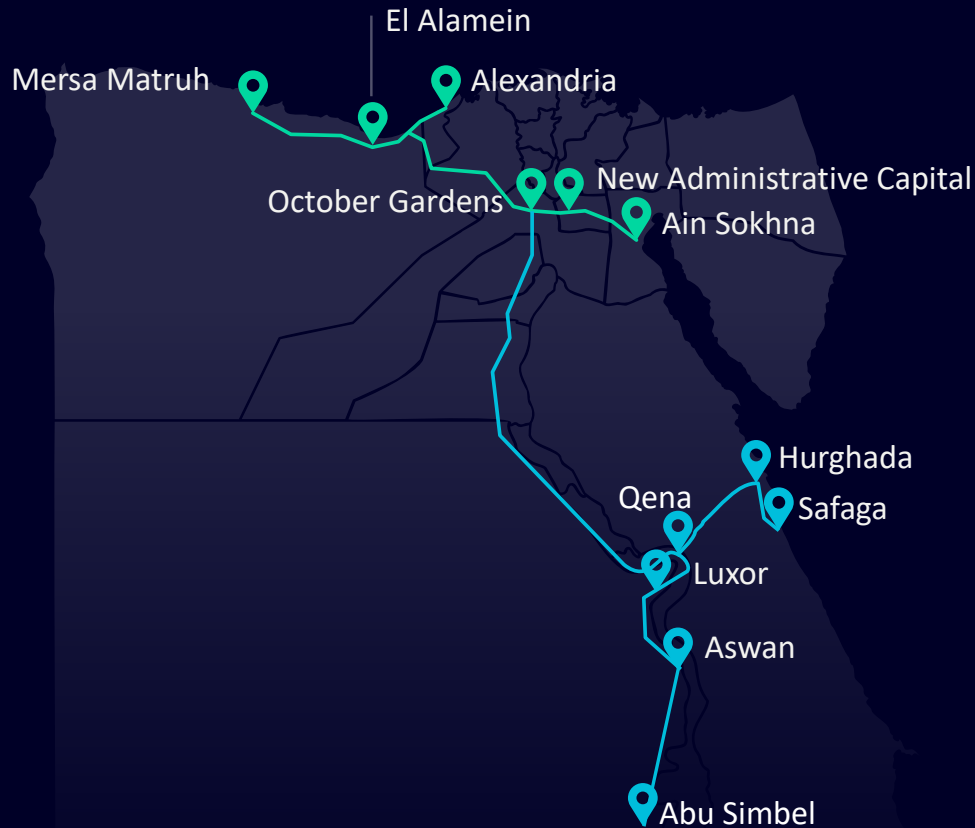
41 Velaro
high-speed trains



94 Desiro HC
regional trains



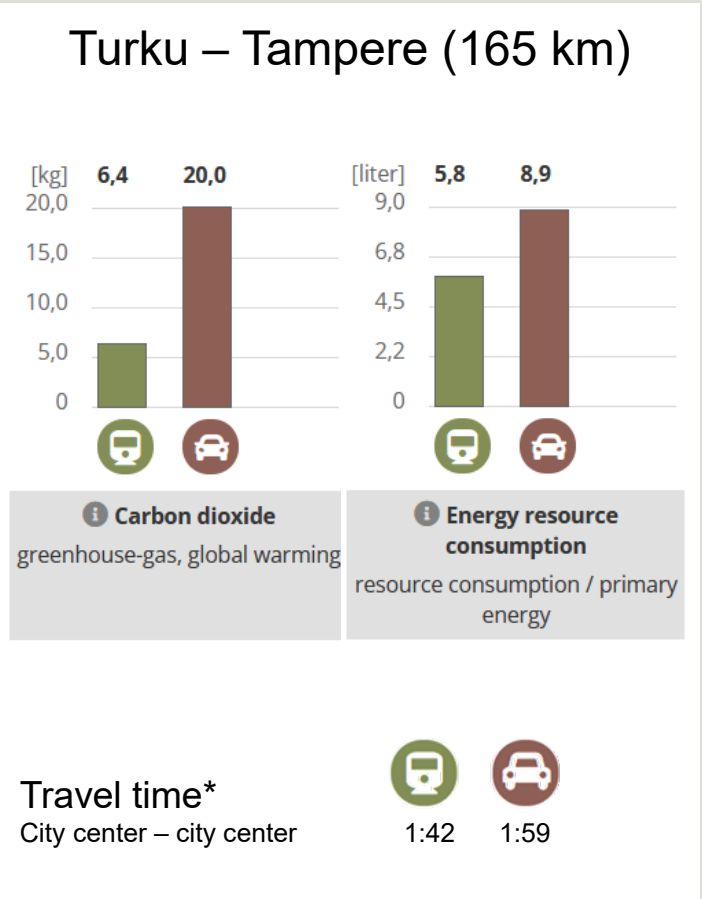
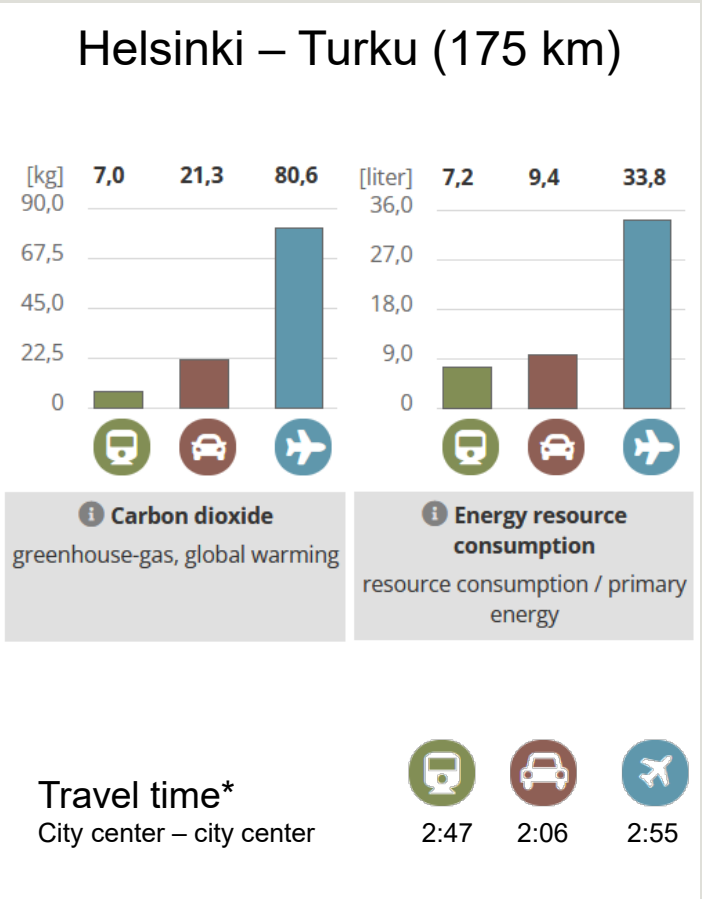
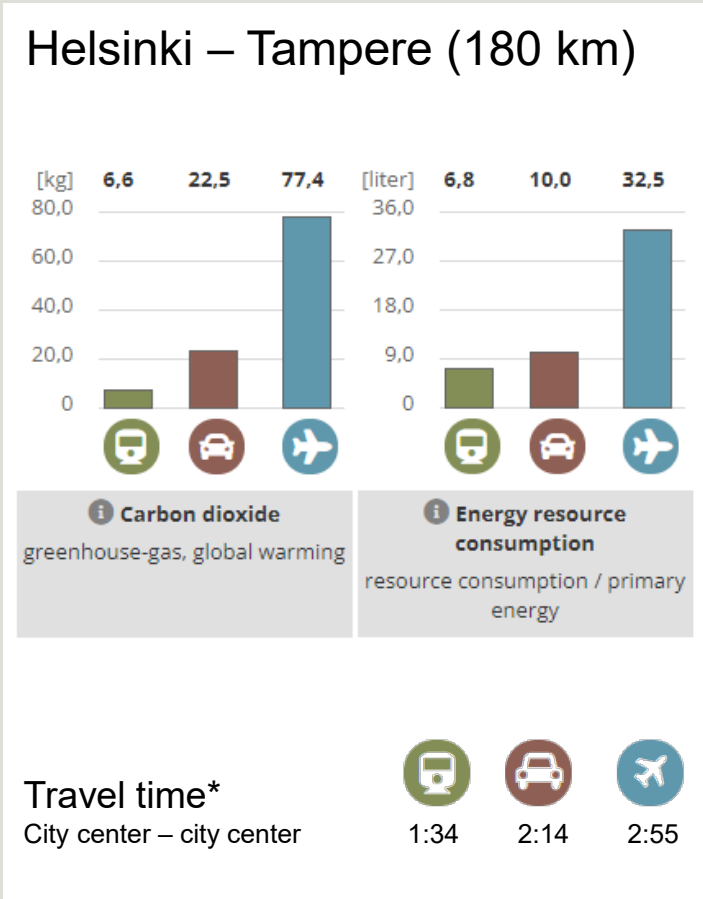
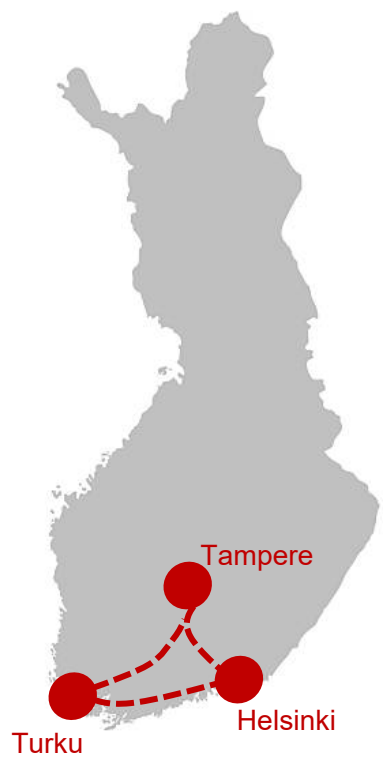
41 Vectron
freight locos



2000 km electrified rail lines
accessible to 90% of Egyptians
reduces 825 kt CO₂ per year
saves 50% travel time

SIEMENS

Highspeed rail is the best option to reduce emissions from short distance flights by keeping short travel time



Source: www.ecopassenger.org

* Travel time including feeder

Beside fast, reliable and eco-friendly HSR trains, unique passenger experience is key to attract more passengers

1.

Who is travelling ?



Luis
Low-income traveller



Nathan
Wheelchair user



Martina
Platinum-ager



James
Single father of two



Elisabeth
Business woman



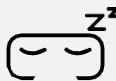
Benjamin
Active silver-ager

2.

What does the persona do during the train ride ?



- Work / Focus**
- use laptop / tablet
 - phone calls
 - meetings / chats



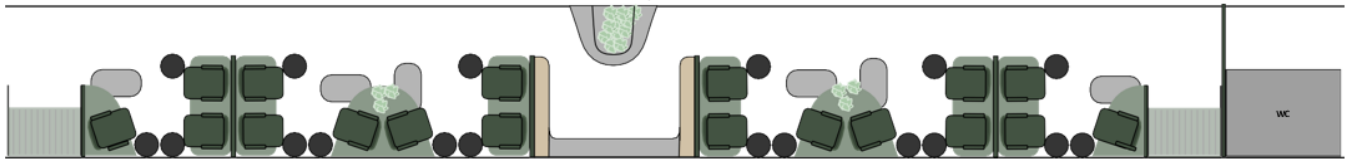
- Relax**
- sleep / doze
 - books / movies
 - eat / drink



- Socialize**
- eat / drink
 - meet / chat
 - music / movies

3.

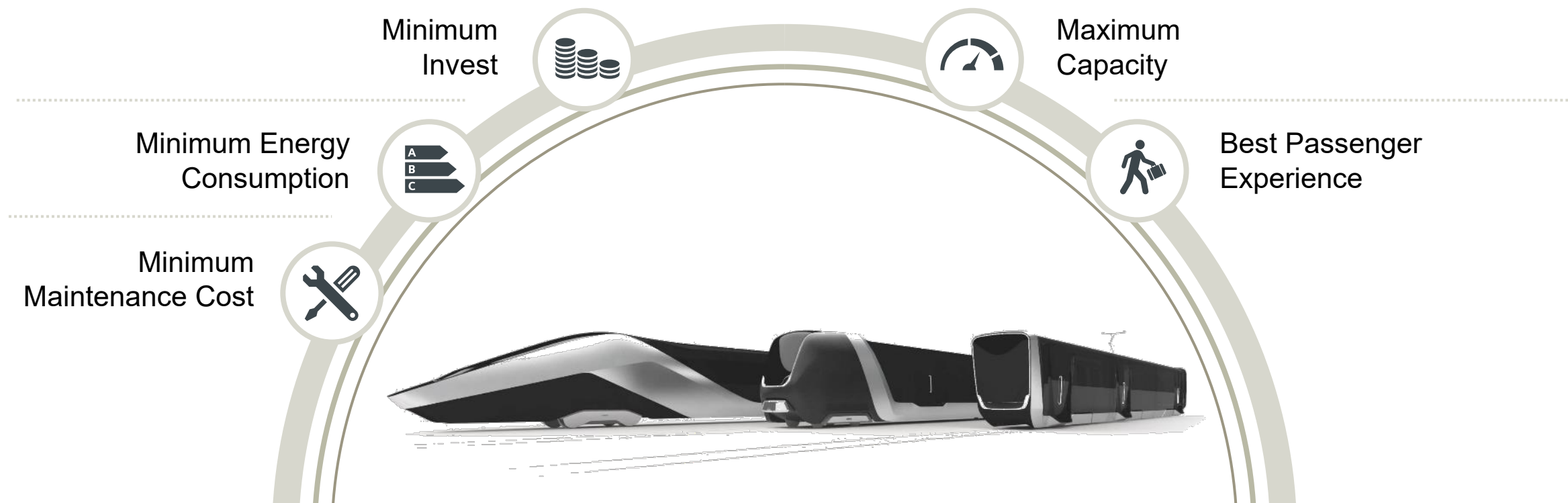
How could a potential solution look like ?



Examples of new interior design studies for Siemens Velaro

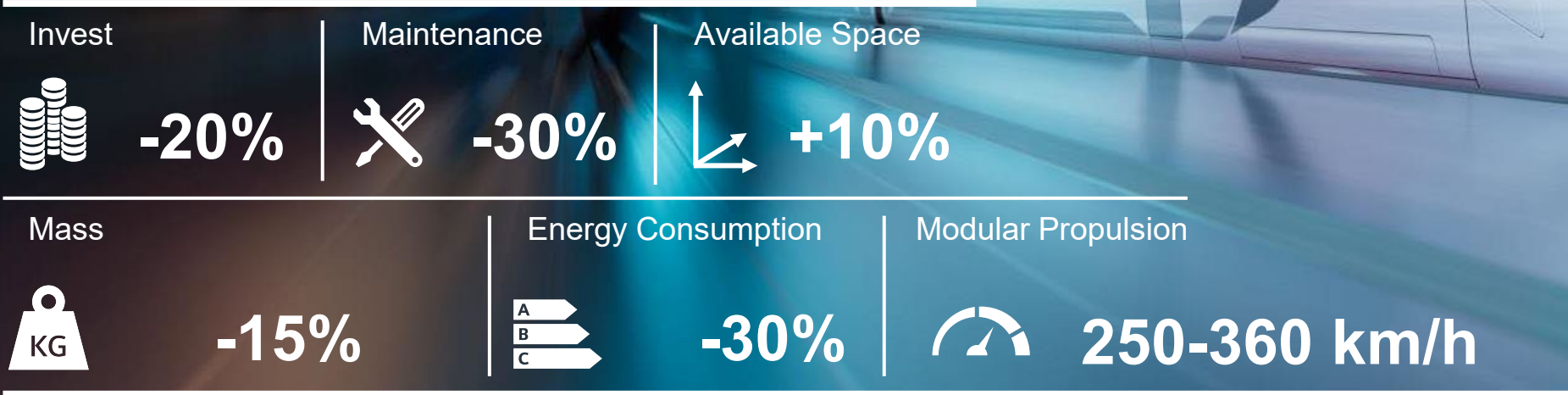


Decisive requirements with cost impact from operator's perspective



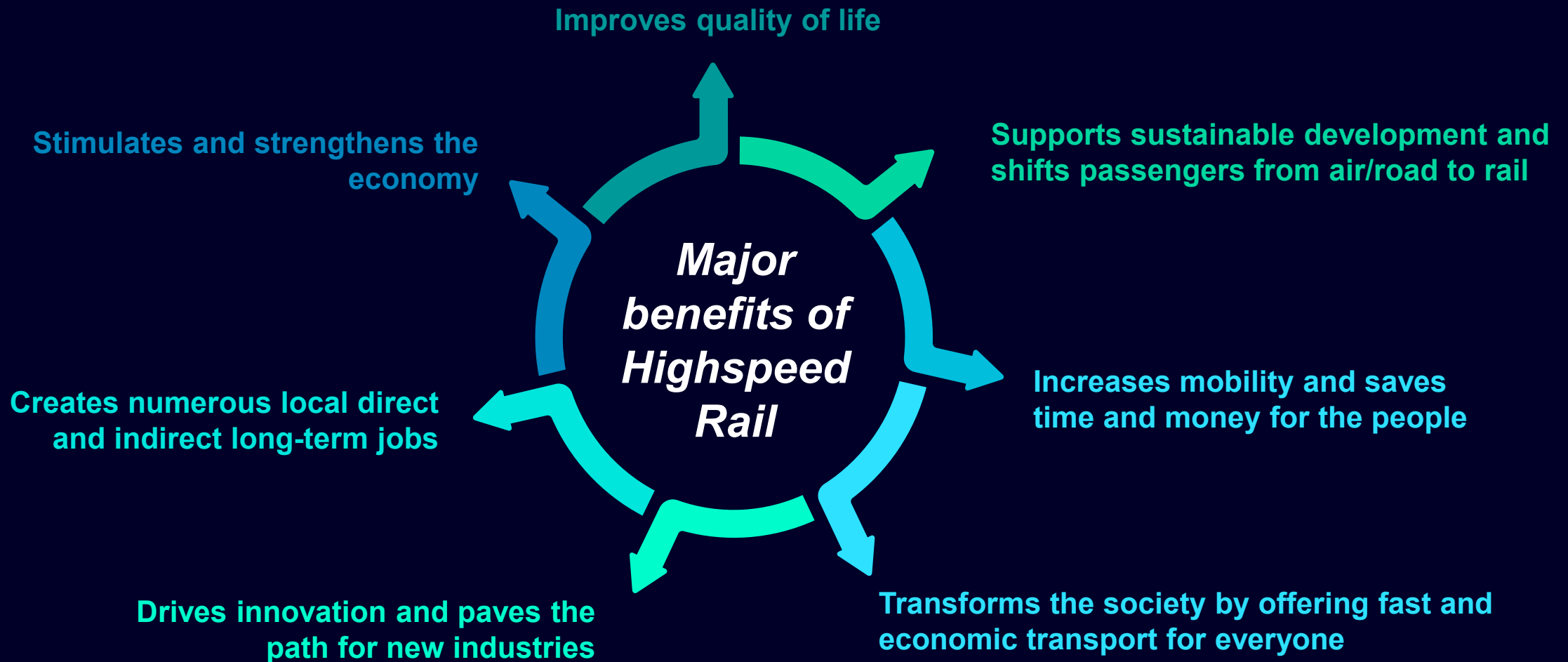
The focus of our innovation roadmap is the improvement of Life Cycle Cost

Velaro Novo – Achievements



Note: Compared to Velaro Classic at 320 km/h

HSR generates significant benefits to countries, economies and societies



Kiitos !

**Florian
Beulcke**

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