GOING HIGH SPEED
Urban railway development by the advent of a new high speed rail

Location and context
Lisbon is located on the south coast of Portugal, bordered by the Atlantic Ocean. The city is a major economic hub in Southern Europe, hosting a wide range of international companies. It is also a cultural and financial center, with a rich history and heritage.

Main research questions:
1. What can Lisbon benefit specifically from being connected to the current High Speed Train network?

SWOT: Conclusion of the analysis
Strengths:
- Lisbon is a major European city with a high population density.
- The city is a major economic hub, attracting a large number of companies and international organizations.

Weaknesses:
- The current urban design is not optimal for high-speed rail connectivity.
- The city lacks a clear vision for the development of a new High Speed Train network.

Opportunities:
- Lisbon can benefit from the construction of a new High Speed Train network.
- The city can attract new businesses and jobs.

Threats:
- The cost of constructing a new High Speed Train network.
- The potential environmental impact of the new network.

Problem statement
The current urban design in Lisbon is not optimal for high-speed rail connectivity. The city lacks a clear vision for the development of a new High Speed Train network.

Why?
- Lisbon is a major European city with a high population density.
- The city is a major economic hub, attracting a large number of companies and international organizations.

How?
- The current urban design in Lisbon is not optimal for high-speed rail connectivity.
- The city lacks a clear vision for the development of a new High Speed Train network.

Effects on three scales
- Regional: Improved connectivity with other European cities.
- Metropolitan: Increased economic growth and job creation.
- Local: Improved mobility and accessibility for residents.

Urban design
The design proposal for Lisbon focuses on improving the urban space around the new High Speed Train stations.

Vision Railway Zone
The new High Speed Train station will be located on the eastern side of the city, providing a new focal point for the city's development.

Metropolitan Area
The new High Speed Train station will be located on the eastern side of the city, providing a new focal point for the city's development.

City Scale
The new High Speed Train station will be located on the eastern side of the city, providing a new focal point for the city's development.

Railway Zone
The new High Speed Train station will be located on the eastern side of the city, providing a new focal point for the city's development.
**Architectural Design**

**Building Volume**

**Interior Space**

**Climate Control**

**Grid System**

**Facade**

**Structural Design**

**Floor System on Beams**

**Building Services**

**Spatial Layout**

**GROUNDFLOOR PLAN 1:1000**

**Sections 1:1000**

**Multifunctional**

**Public Square**

**Inside**

**Underground**

**One Building with**

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