

# IDOM

CONSULTING | ENGINEERING | ARCHITECTURE

# IDOM

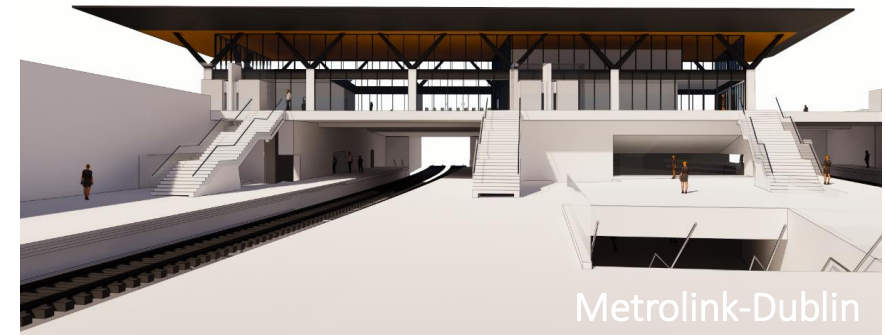
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CZECH REPUBLIC -Spain Railways Business Forum  
SECTION 3\_ Intermodal and Sustainable Railway Stations

2024\_05\_21

## Intermodal Stations – some international references

(multidisciplinary stations team)



# High Speed Railways in Spain

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# High Speed Railways in Spain

## Spain Network-IDOM involvements

Spain is the Second largest High-Speed network in the World:

>4.000 km in service

2 track gauges:

Standard UIC\* (1435 mm): High-Speed

Spanish (1668 mm): Conventional

\* International Union of Railways

Radial conception centered in Madrid:

2 HSR Stations in Madrid: Atocha and Chamartín

5 main corridors:

- South (Sevilla / Málaga / Cádiz)
- North-East (Barcelona / France)
- East (Valencia / Alicante)
- North-West (Galicia)
- North (Bilbao / San Sebastian). Under Construction



### IDOM Scope of Works

- Design
- Urban Integration
- Construction Management



## San Cristobal Station- A Coruña-Spain (Under Construction)

**Client:** ADIF  
**Area:** 107,200 m<sup>2</sup>  
**Budget:** 130M €  
**Date:** 2011-2013

**Actual capacity:** 1.2 M passengers  
**Design capacity:** 3.8 M passengers

### **Scope of Works:**

- Preliminary Design
- Detailed Design Stage 1
- Feasibility analyses
- Cost-Benefit analyses
- Operation and track refurbishment

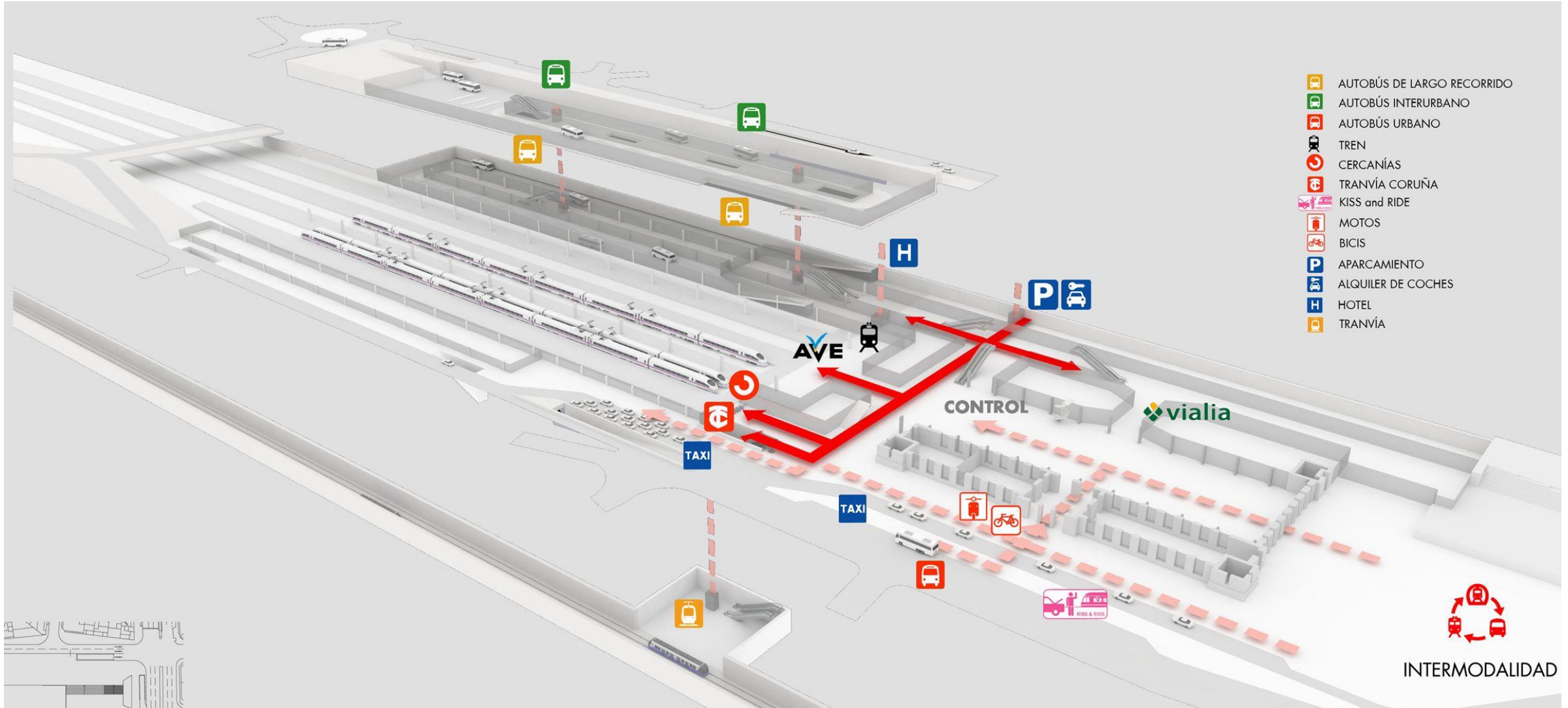
# San Cristobal Station- A Coruña-Spain

## Design Transformation



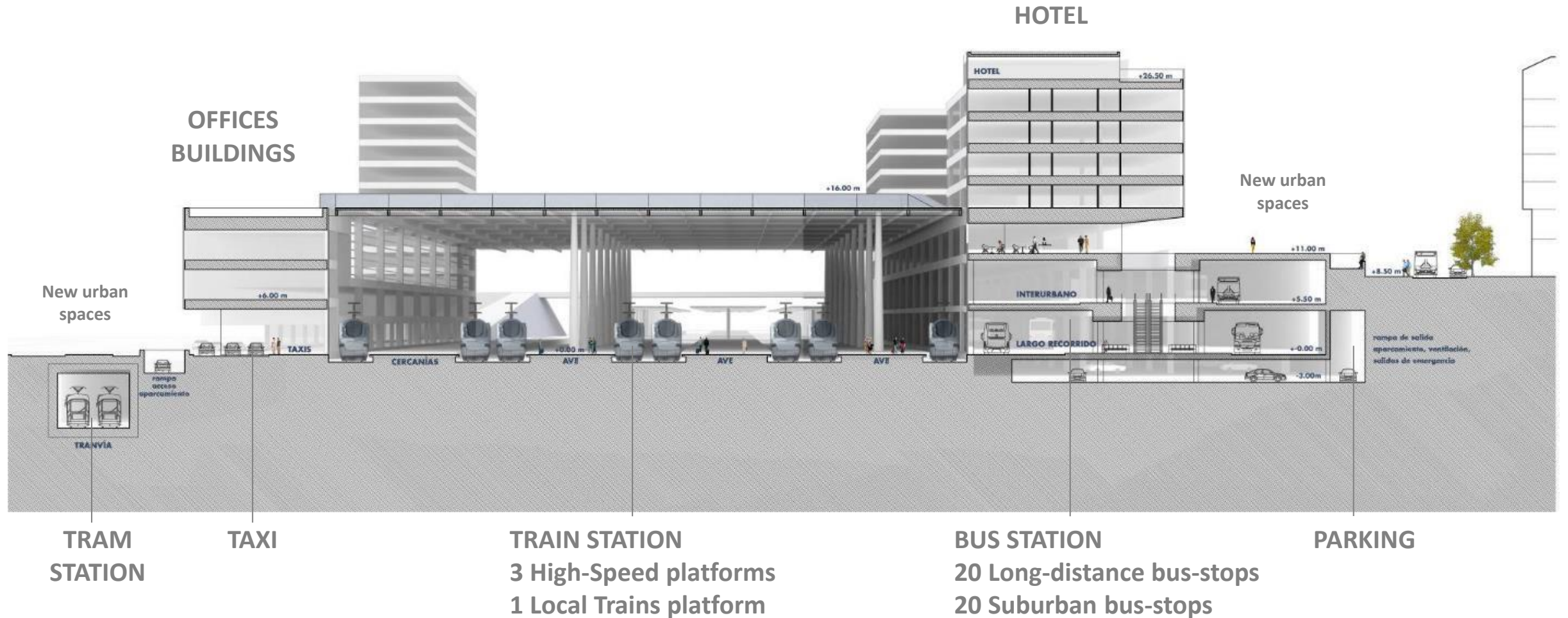
# San Cristobal Station-A Coruña-Spain

## - Intermodality Scheme



# San Cristobal Station-A Coruña-Spain

## Intermodal-Cross Section





# San Cristobal Station- A Coruña-Spain

## Design Transformation



# San Cristobal Station-A Coruña-Spain

## Design Integration

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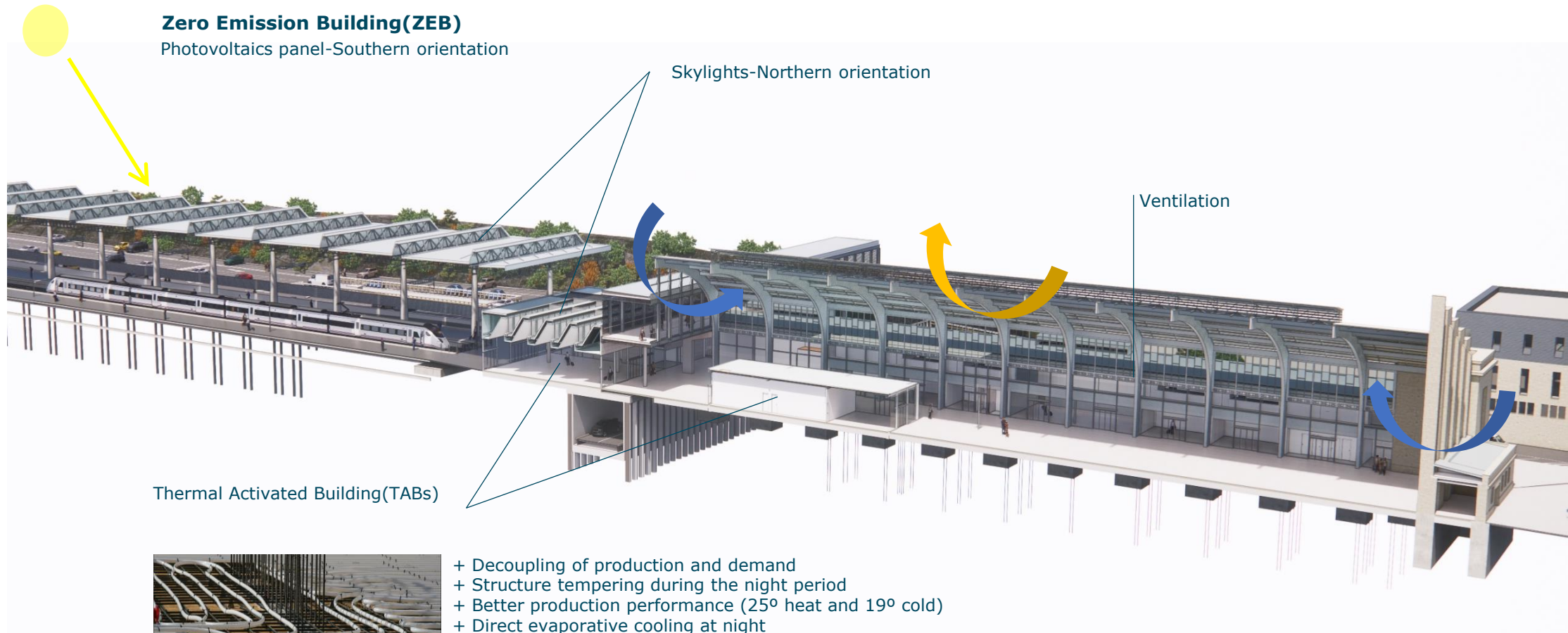


Historical Canopy-Final Stage



Historical Canopy-Current Situation

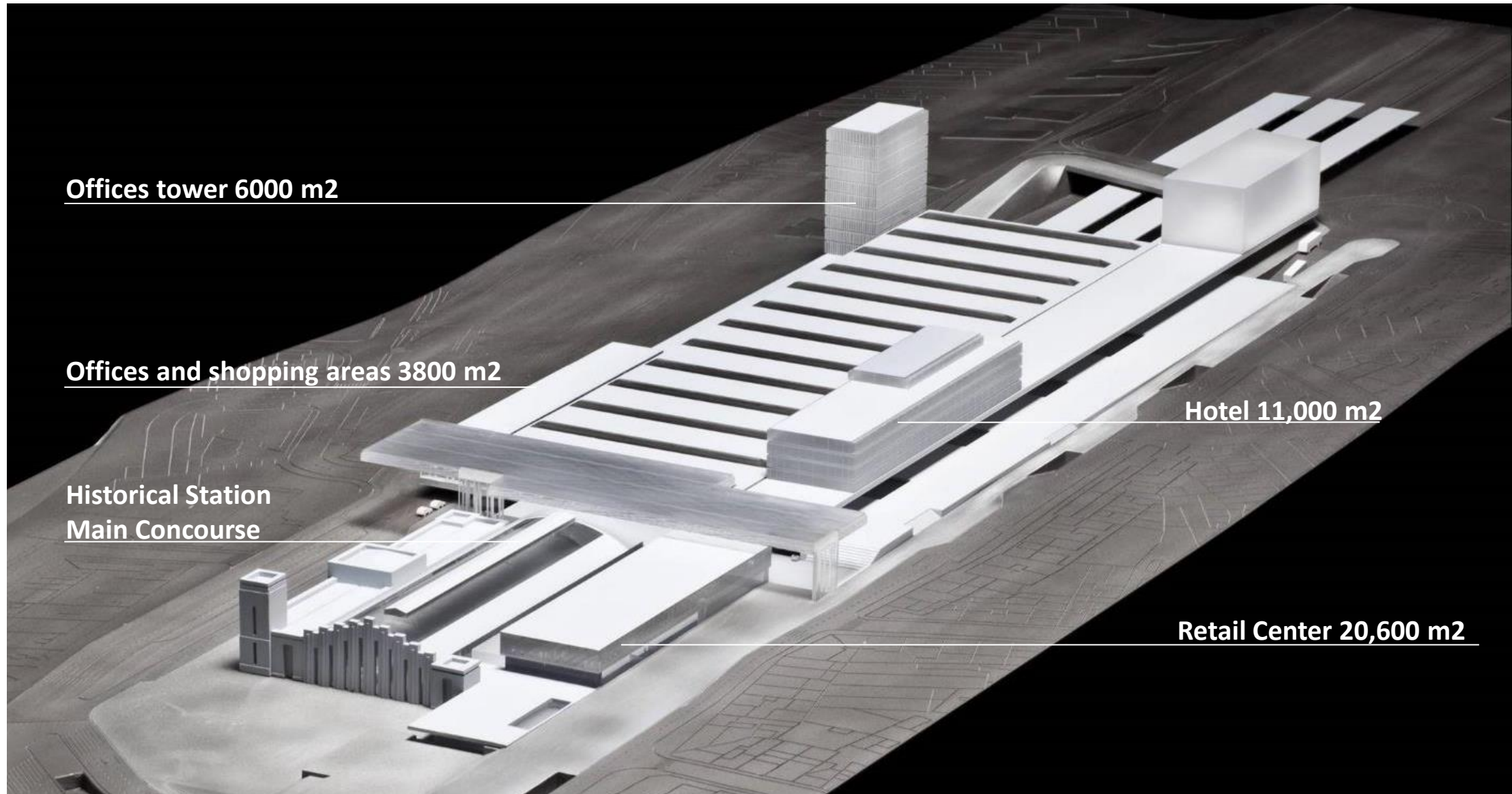
## Sustainability



- + Decoupling of production and demand
- + Structure tempering during the night period
- + Better production performance (25° heat and 19° cold)
- + Direct evaporative cooling at night
- + Smaller air conditioning equipment with lower consumption
- + Room temperature control

# San Cristobal Station-A Coruña-Spain

## Opportunity\_Future Developments



Offices tower 6000 m2

Offices and shopping areas 3800 m2

Historical Station  
Main Concourse

Hotel 11,000 m2

Retail Center 20,600 m2

# THANK YOU!

For more information: [WWW.IDOM.COM](http://WWW.IDOM.COM)