

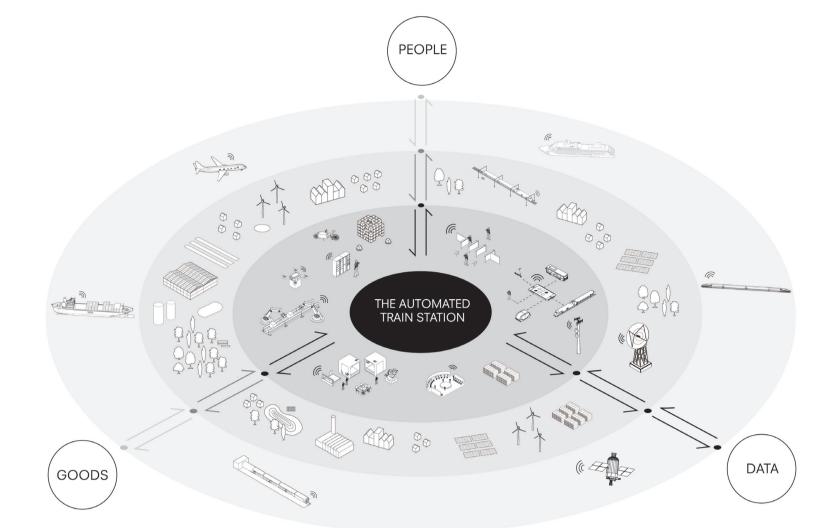
# **RUSH HOUR** THE TRAIN STATION AS THE FUTURE DATAPORT

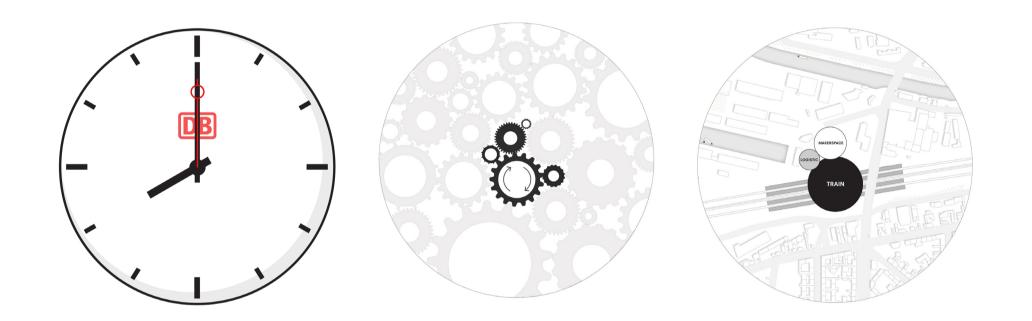
#### **Research Question**

Concept

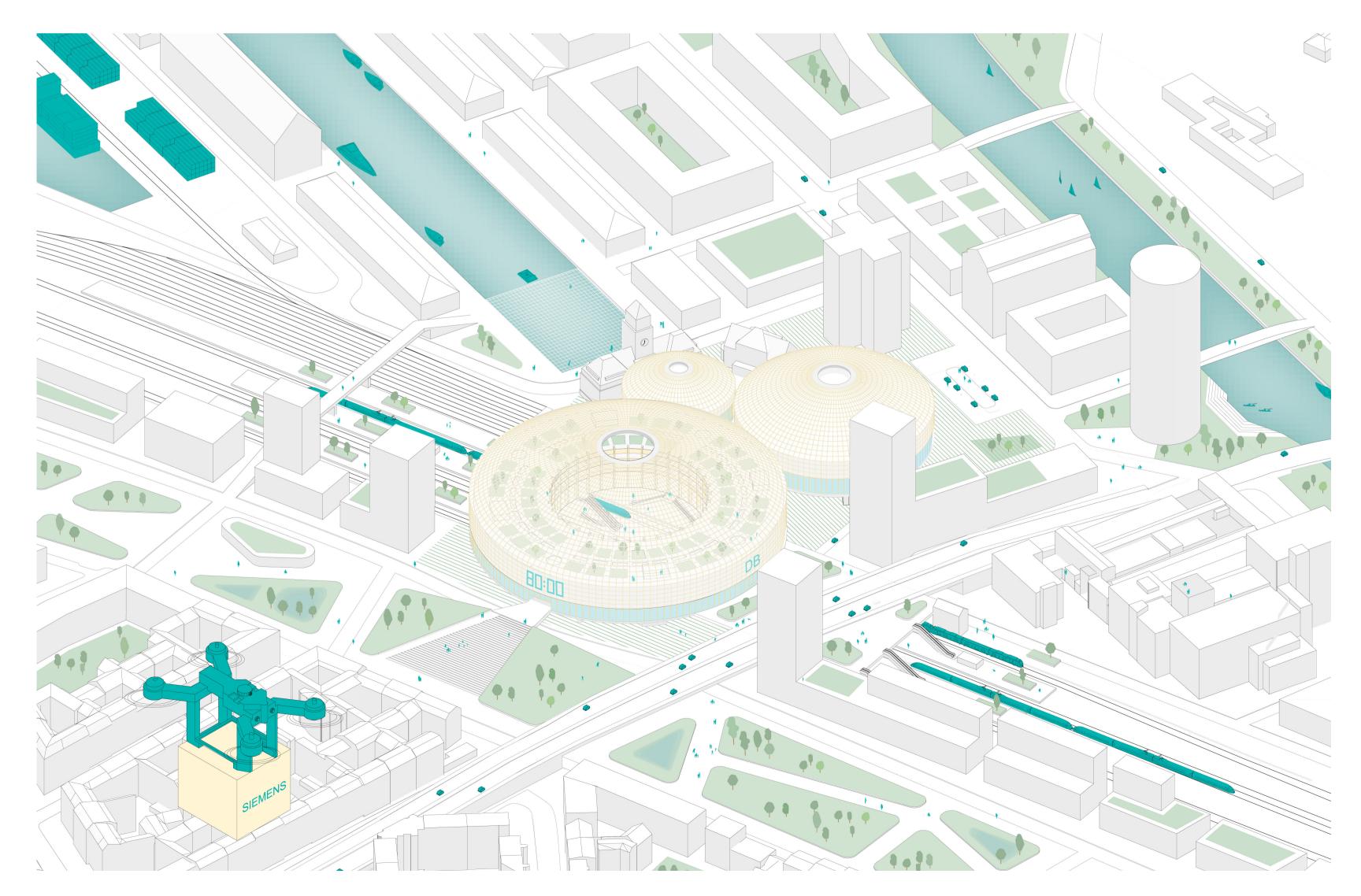
How will data impact the design of a train station for rush hour?

The Rush Hour project is initiated by the German Federal Ministry of Digital and Transport to accelerate the transformation of the German railway infrastructure, including modernizing its train stations. For many decades, the rail infrastructure has been neglected, leading to failing rush hours at stations with overcrowded platforms and unprecedented delays. Digitalization is regarded as the future backbone of the train station by optimizing transport efficiency and user experience. Berlin Westhaven has been chosen as the most suitable site, responding to the client's ambition of creating a digital and transport node as the urban anchor. Westhaven is situated between the city center and a large urban tech development. The station aims to become a highly efficient transport node during peak travel times, simultaneously acting as a destination and gateway of an innovative ecosystem. The main users are local commuters, tech workers, and TU Berlin students. A benchmarking study of existing train stations, in combination with client and site requirements, resulted in a design brief for a train station with an integrated data center.



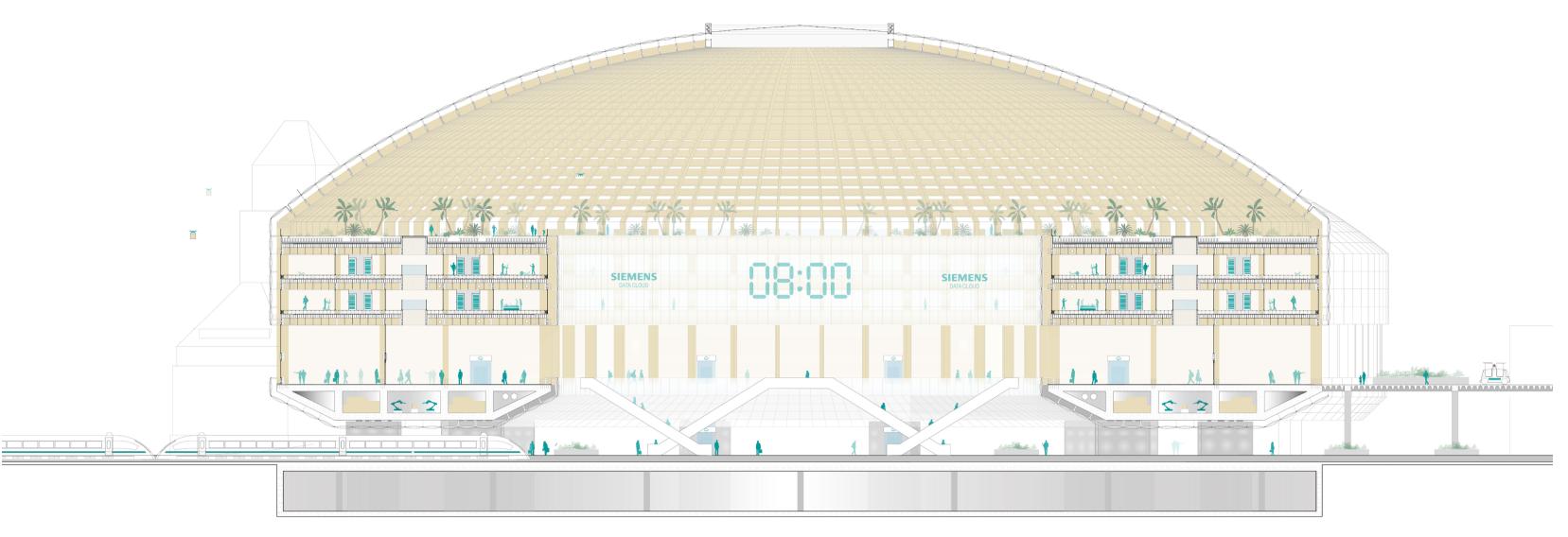


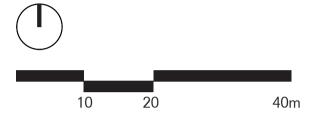
#### **Future Vision Westhafen Berlin**



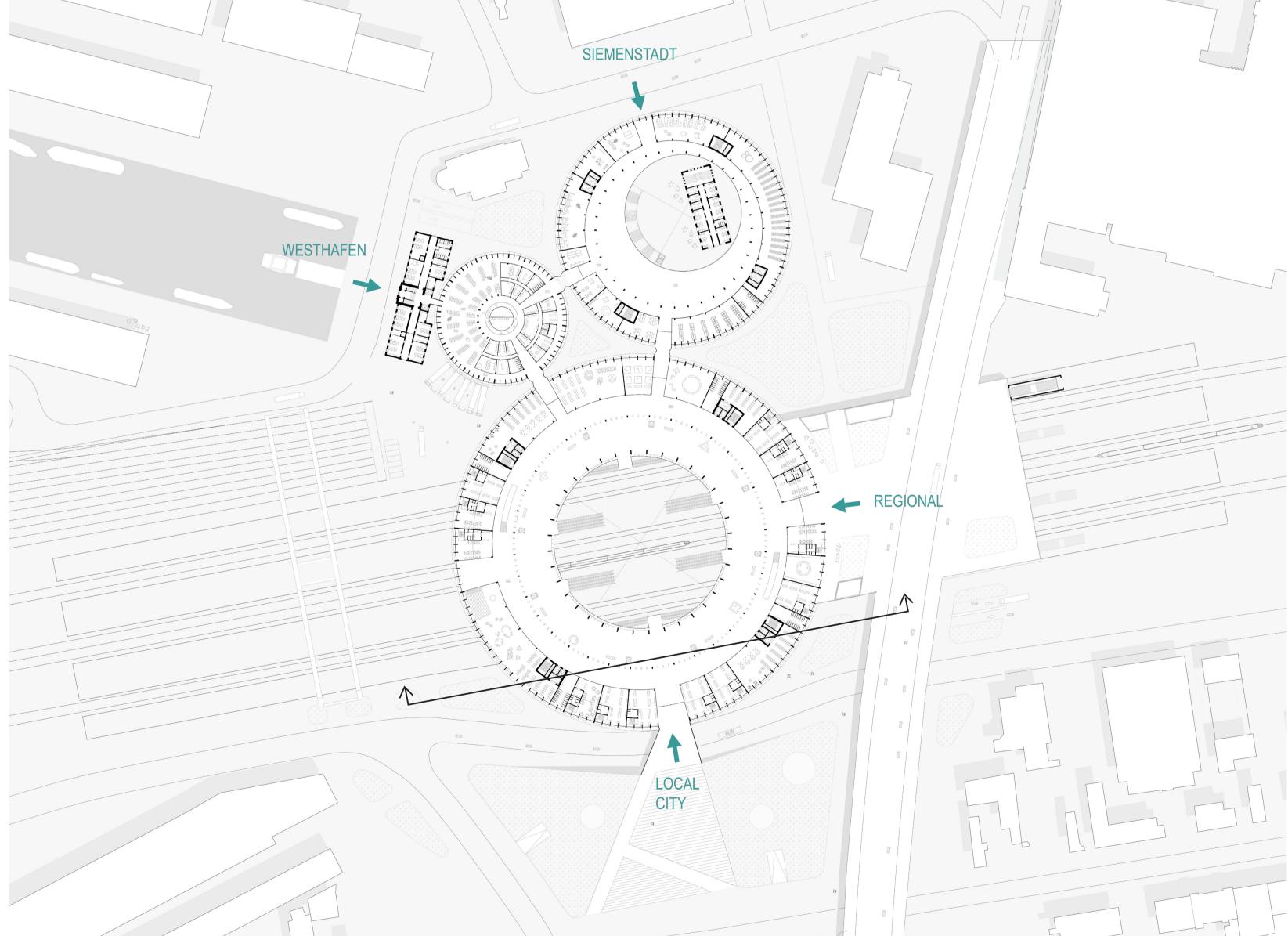


# **East-West Cross-Section**





Concourse Level (L1)



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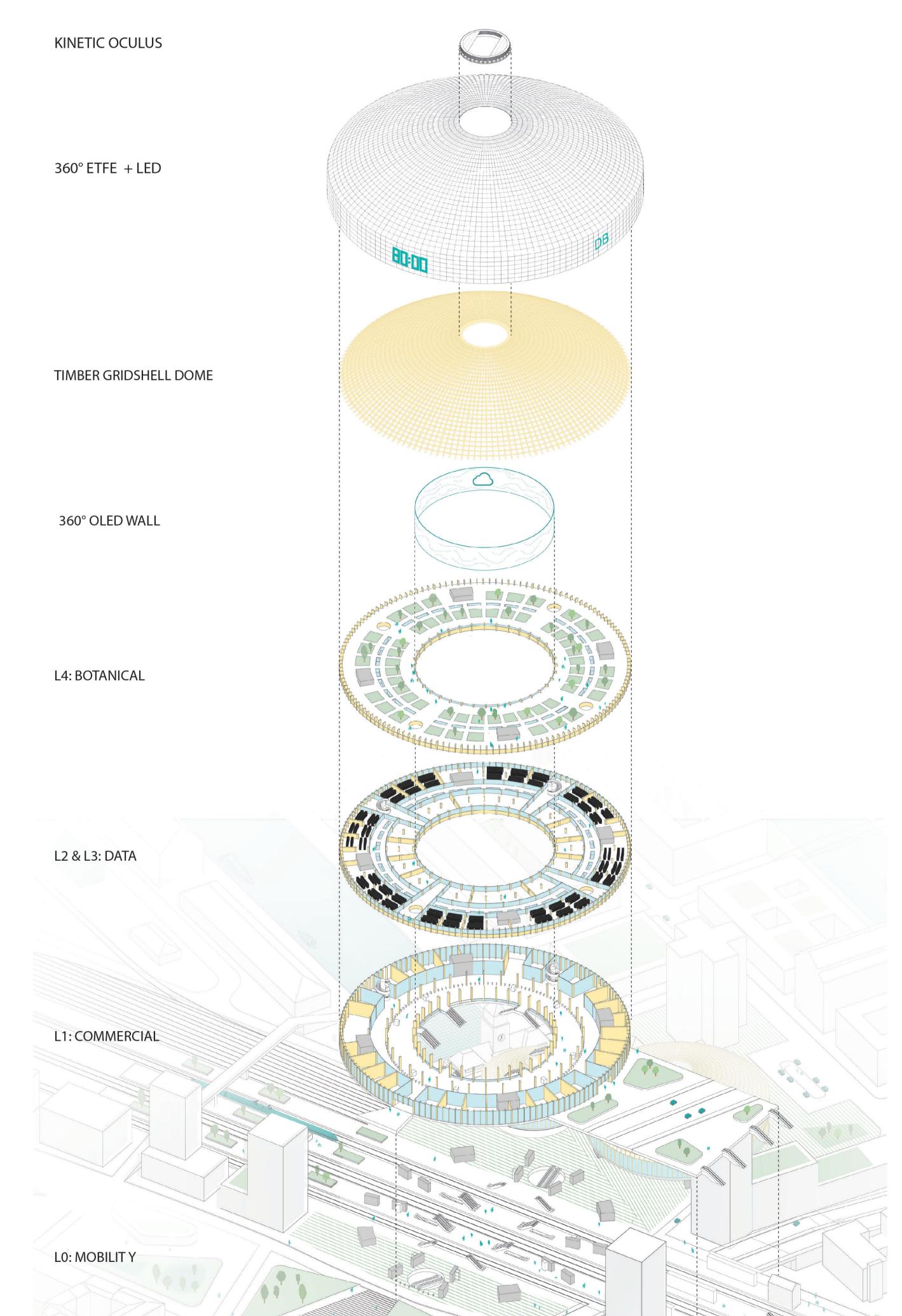


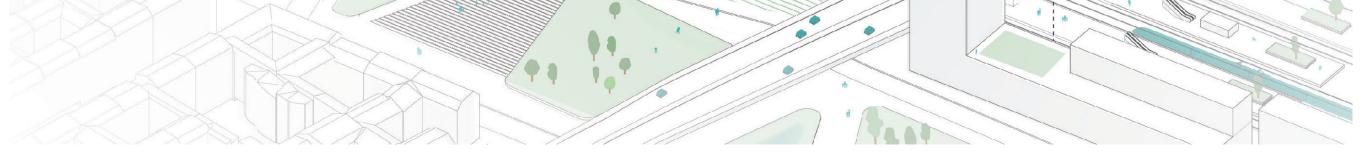
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# Key Drawing Axo



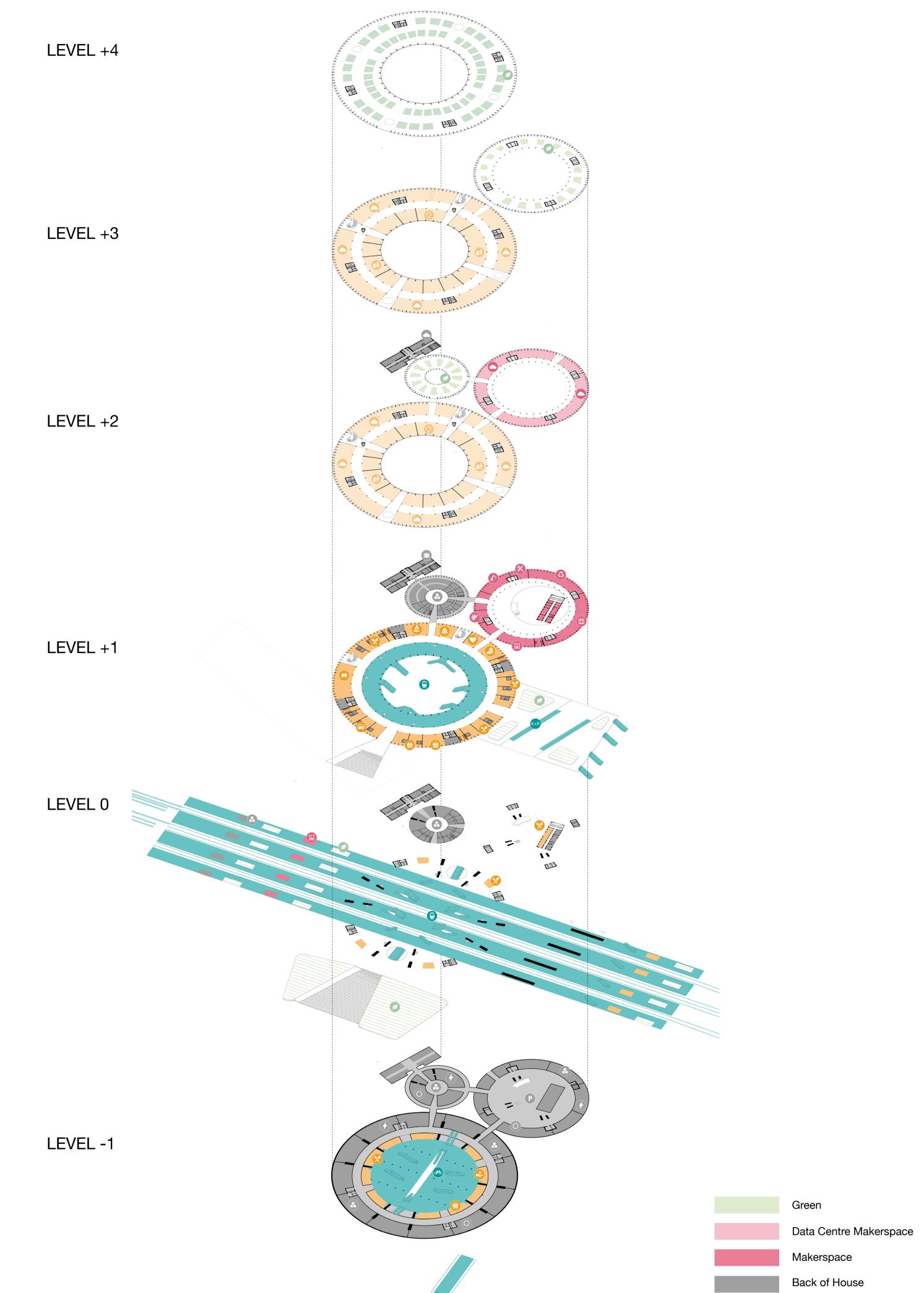


complex **CP** projects

Name: Ruben Vos Date: 29/10/2024 Student Number: 4465512 Group Theme: Digitalisation

# Program Axo







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#### Data Centre Commercial

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Commercial





## **Structural Segment**



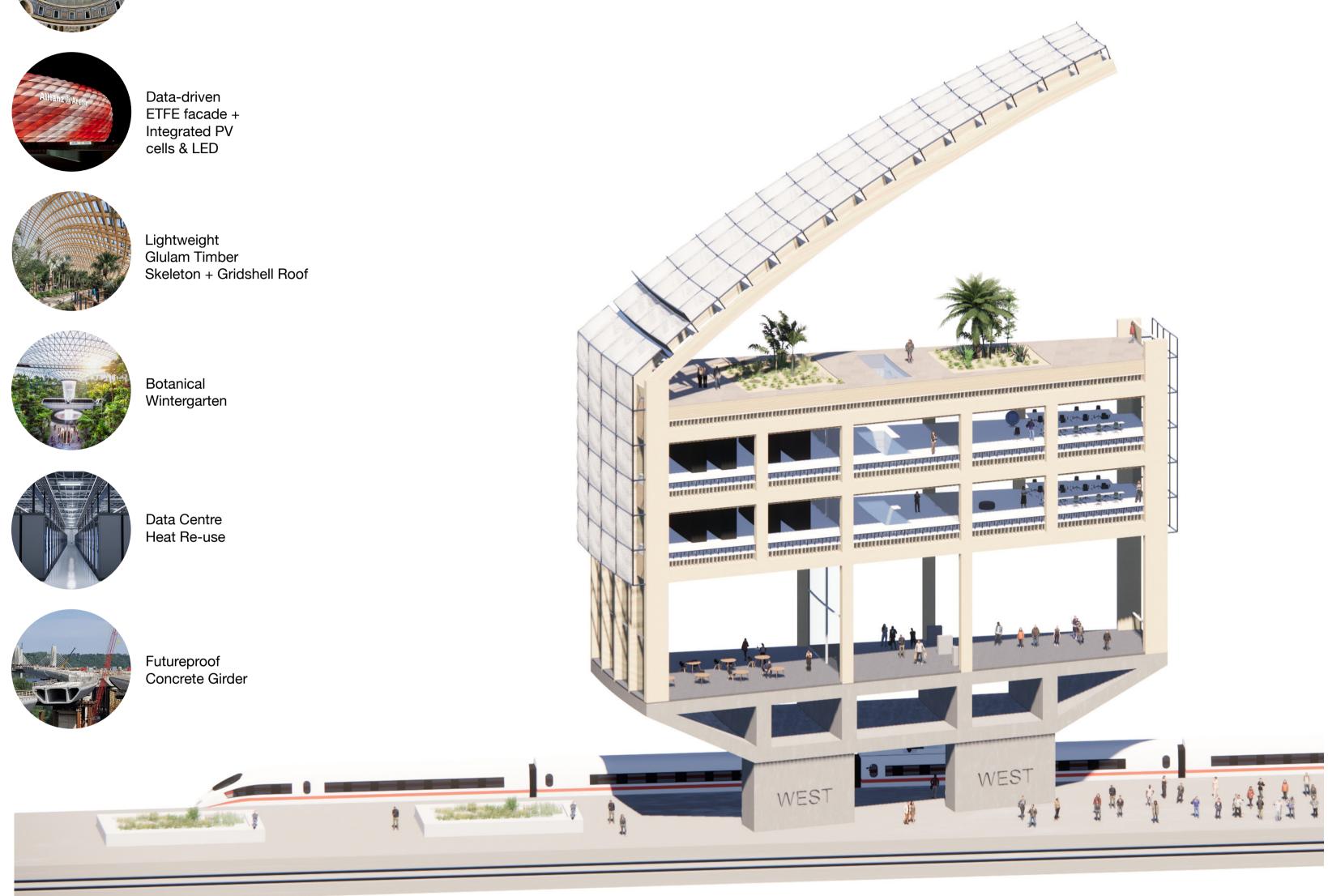
Data-driven Rectractable Oculus



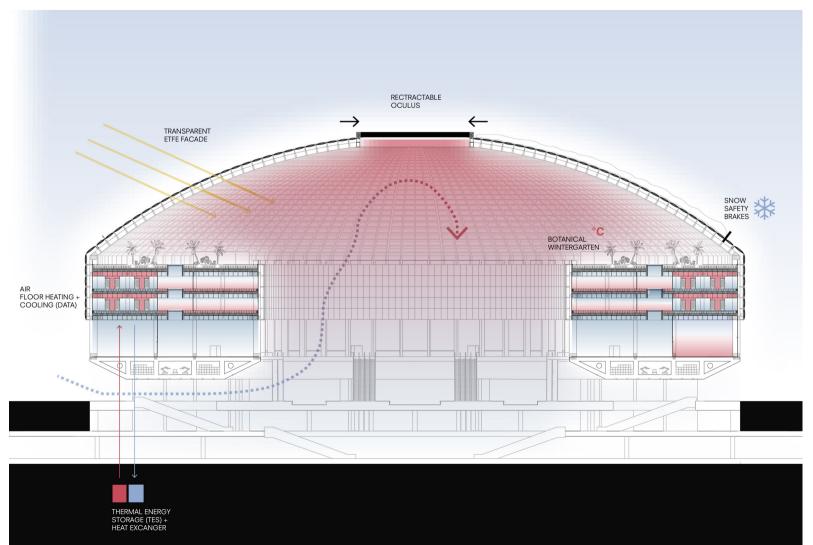








### Winter Climate Scheme



## Summer Climate Scheme

