

TERRELL

Consulting Engineers since 1982



FLYING WHALES

Bordeaux

Société Flying Whales
TERRELL &
GAAMMA Architects

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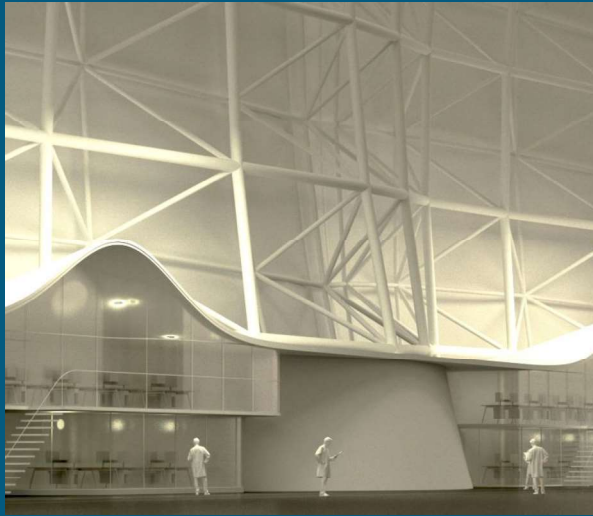
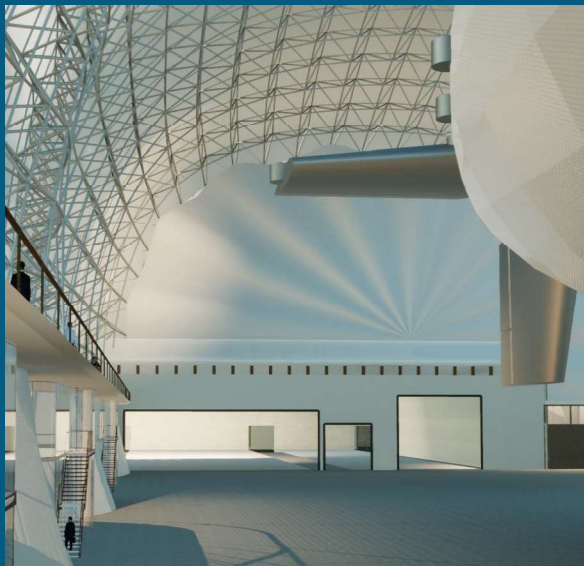


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Site for the production and testing of new, large-capacity rigid airships.

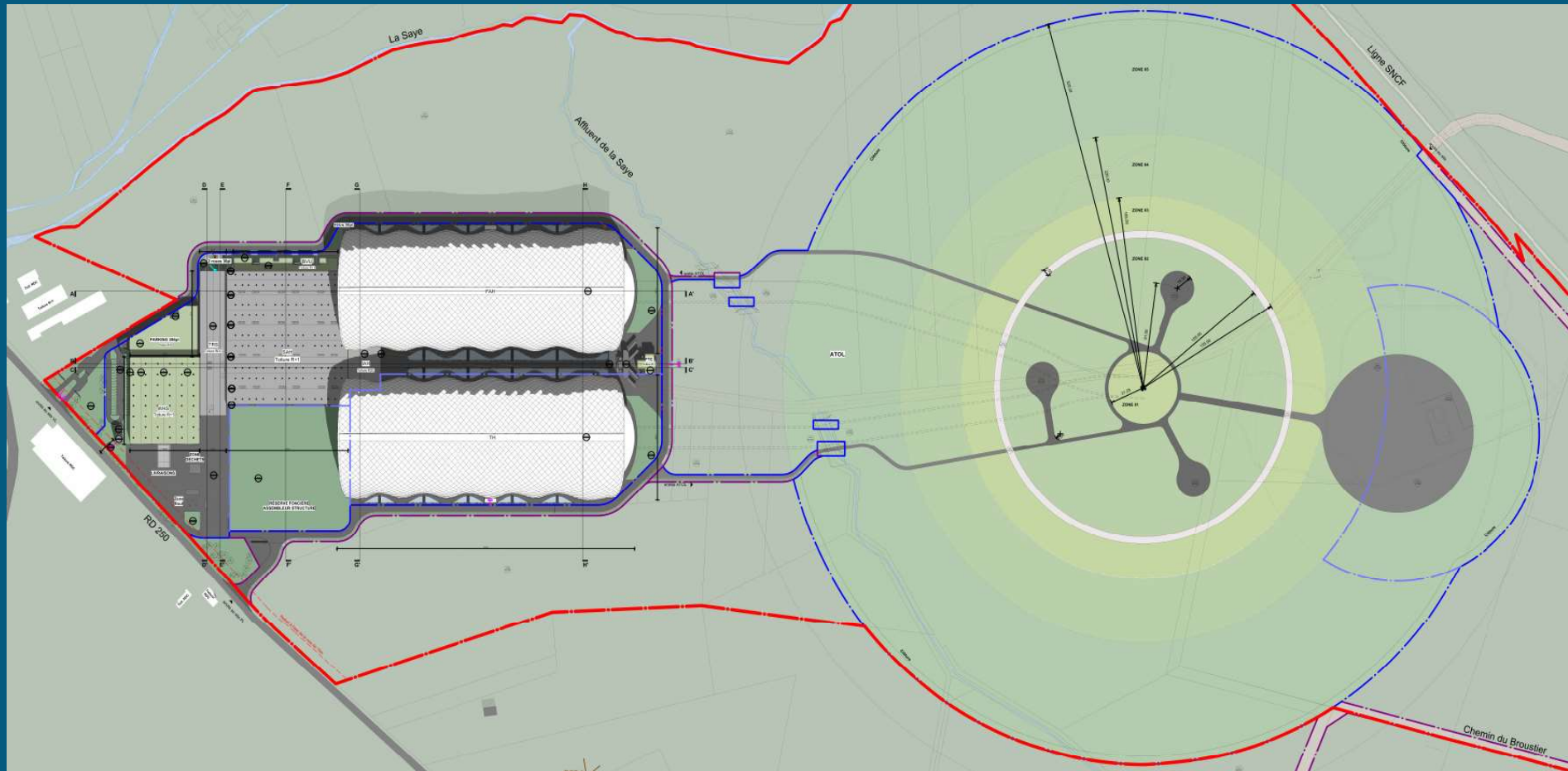
2 assembly hangars **240m x 80m x 70m**, each made with a steel structure and covered in a textile membrane.

2 pre-assembly halls with steel structures, a timber structured office building and an airship take-off and landing area.



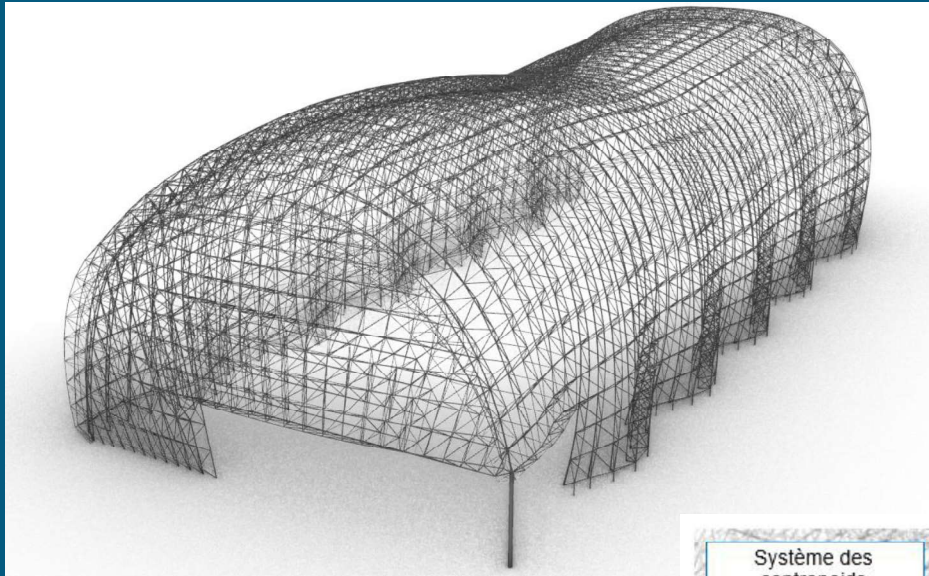
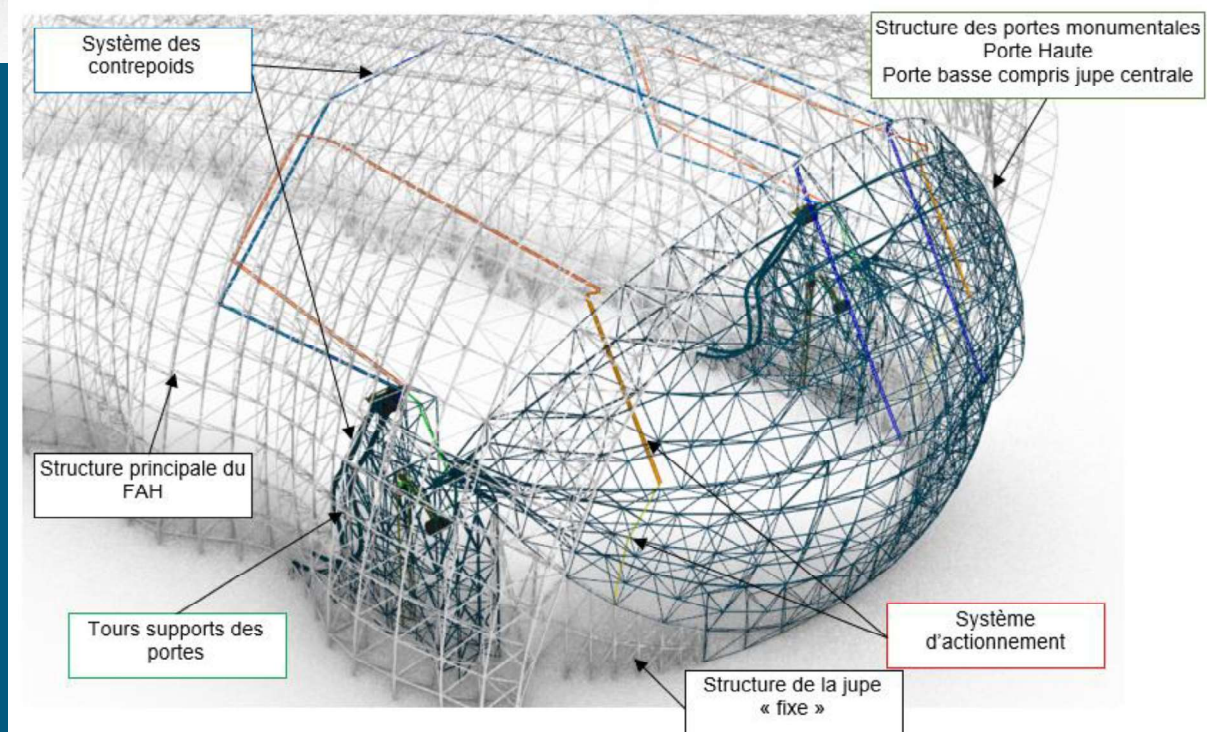
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*Structure Final
Assembly Hall*



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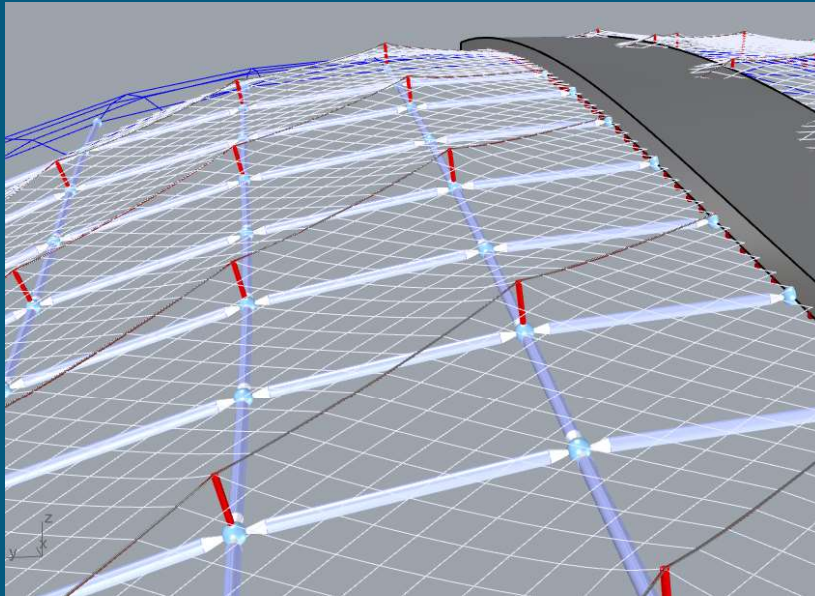
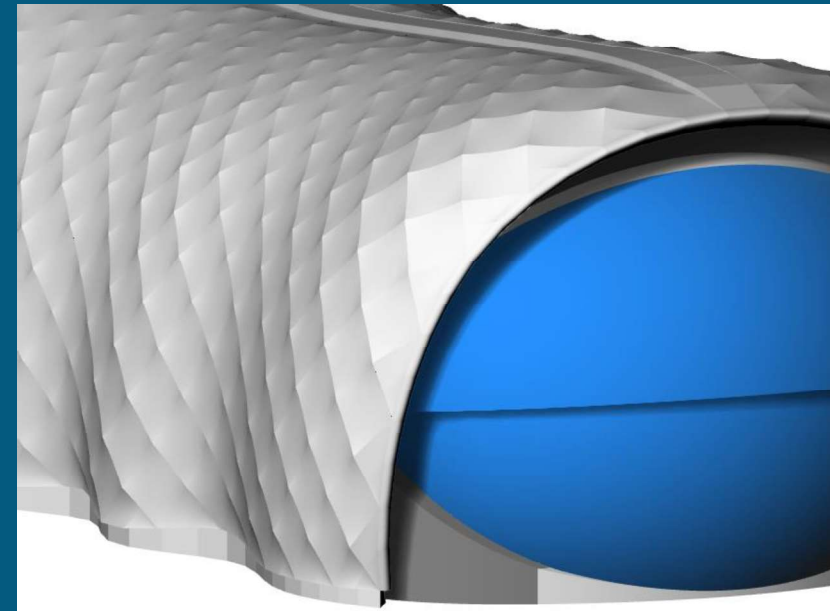
*Structure Final
Assembly Hall*



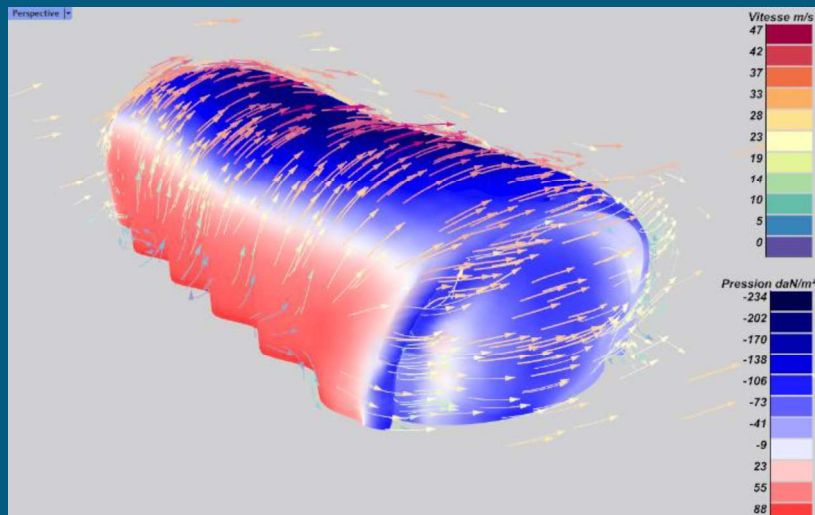
FLYING WHALES

Structure Final
Assembly Hall

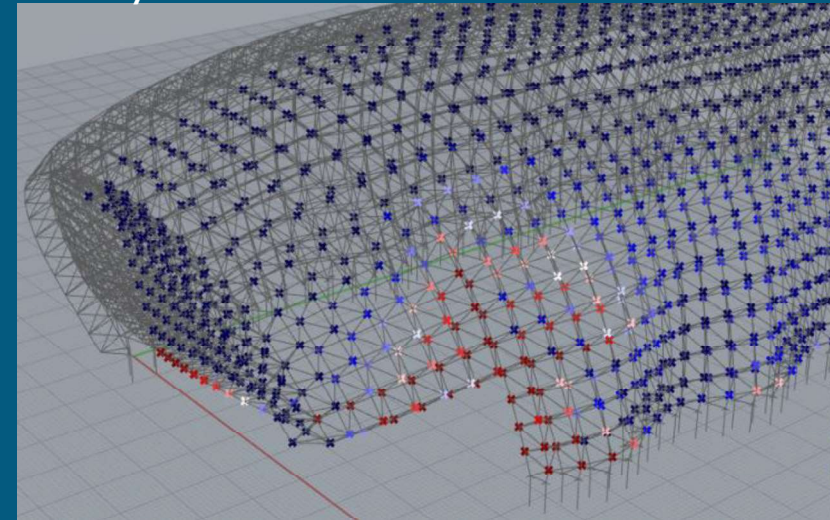
Principe de couverture textile



Etude de vent en soufflerie numérique Terrell



Analyse d'effondrement en chaîne de la structure

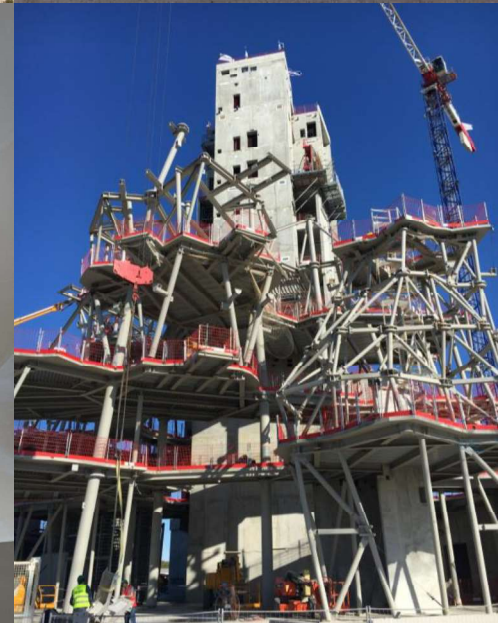


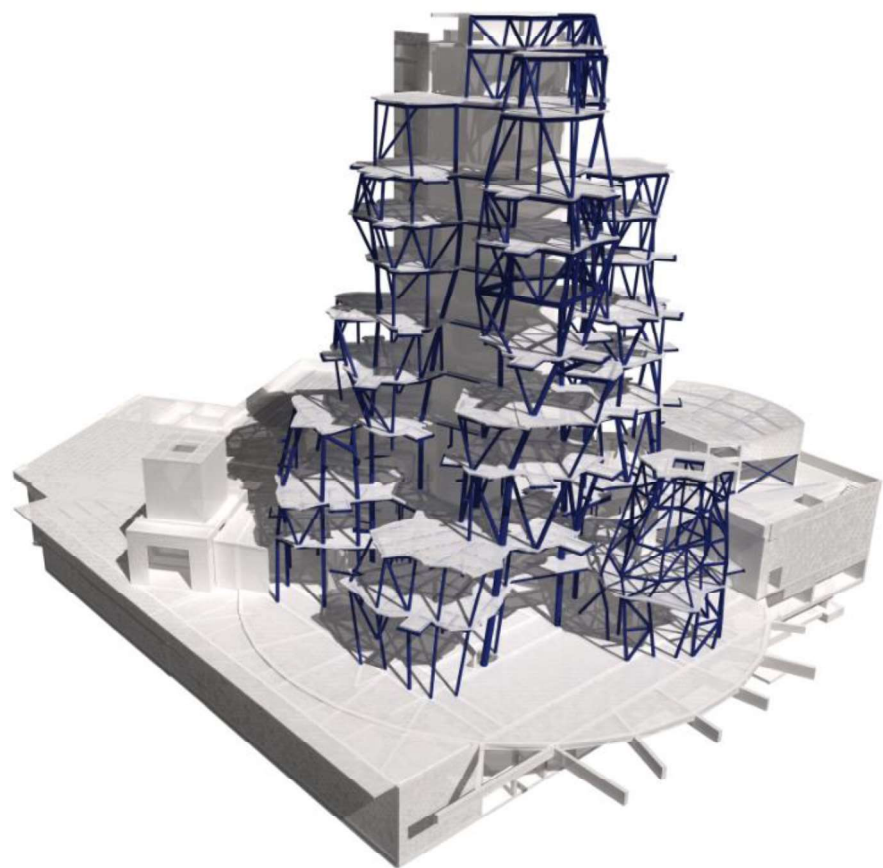
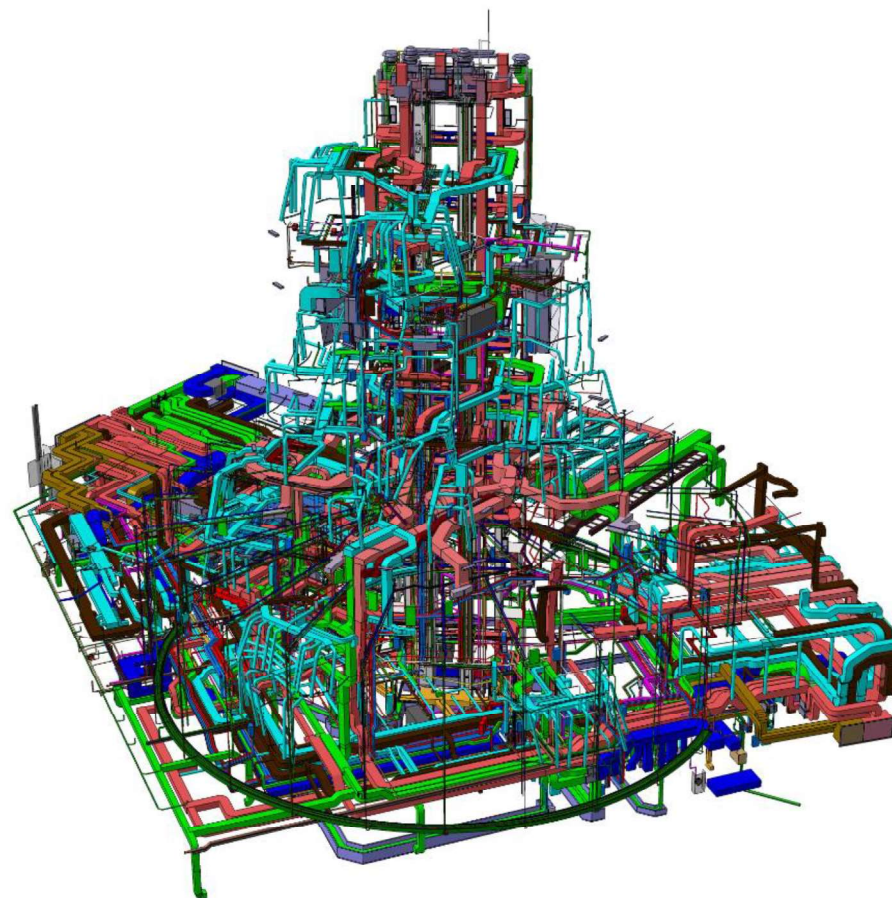
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Fondation Luma
Frank Gehry Partners

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Monuments Historiques

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← **PALAIS DES ETUDES**
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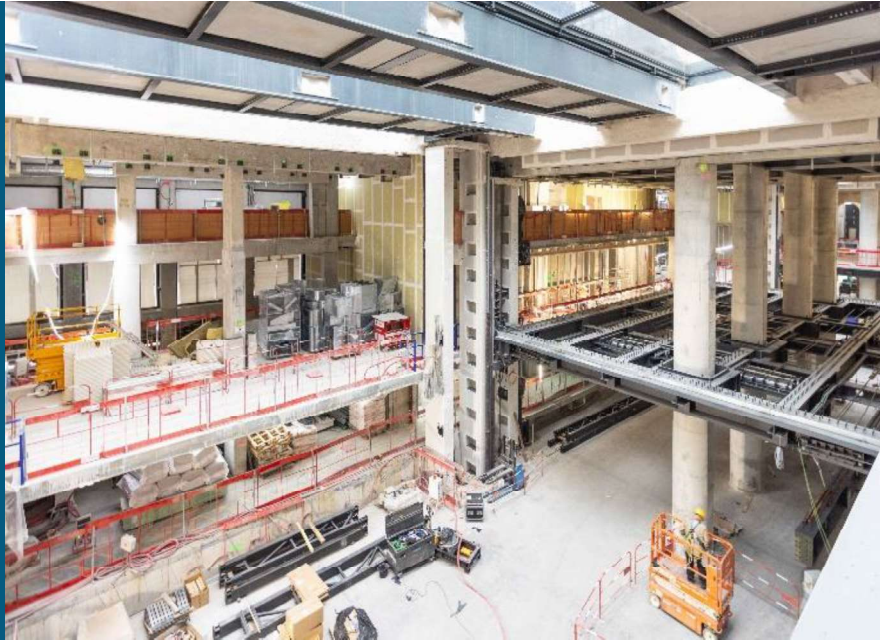
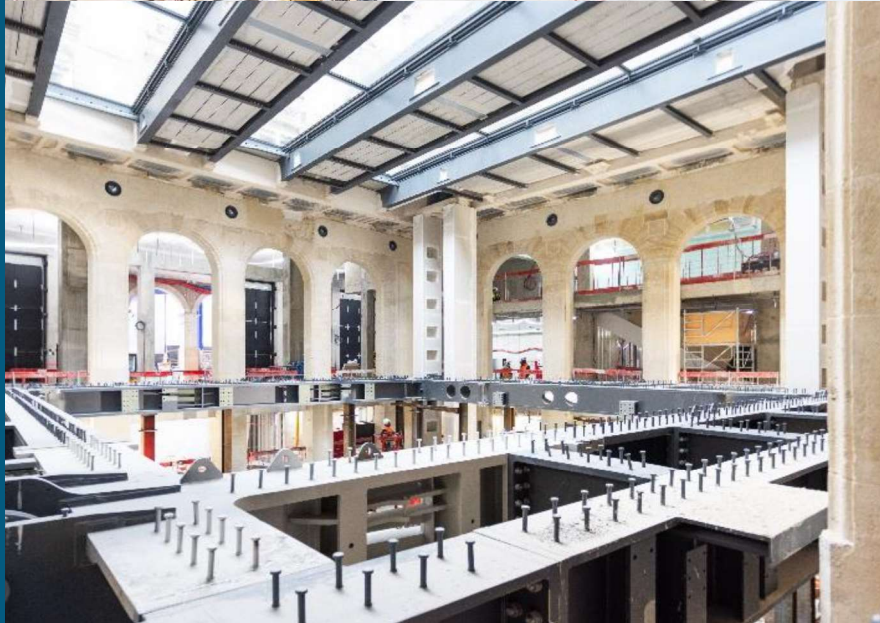
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LOUVRE ST HONORE Fondation Cartier

*B.Architecture
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ST HONORE**
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B Architecture*



**HOTEL DE
COULANGES**
*Sahuc Katchoura
François Chatillon
Architecture*



**HOTEL
CHEVAL BLANC**
La Samaritaine
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SHARAAN
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Royal Commission for
Al_Ula

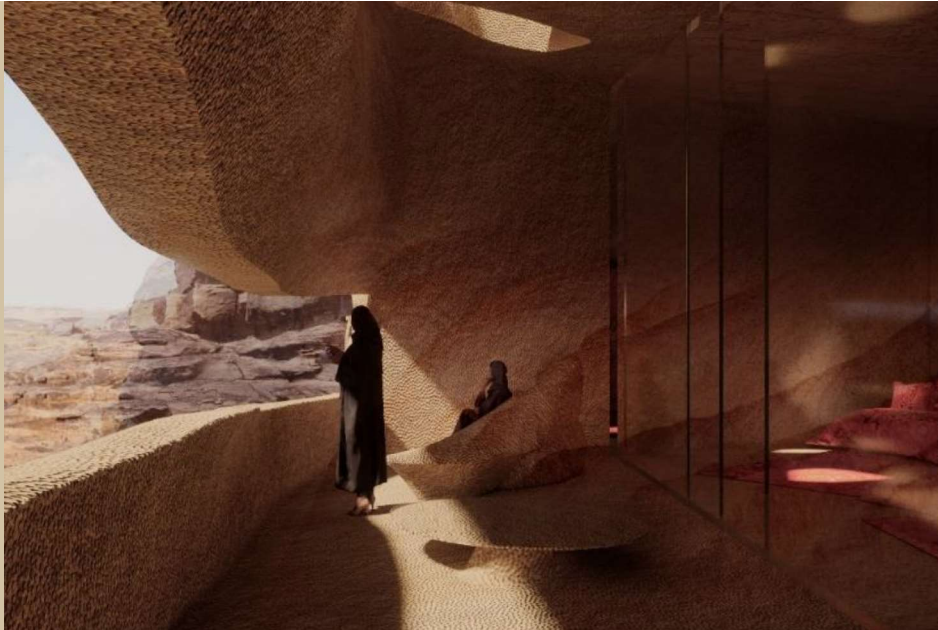
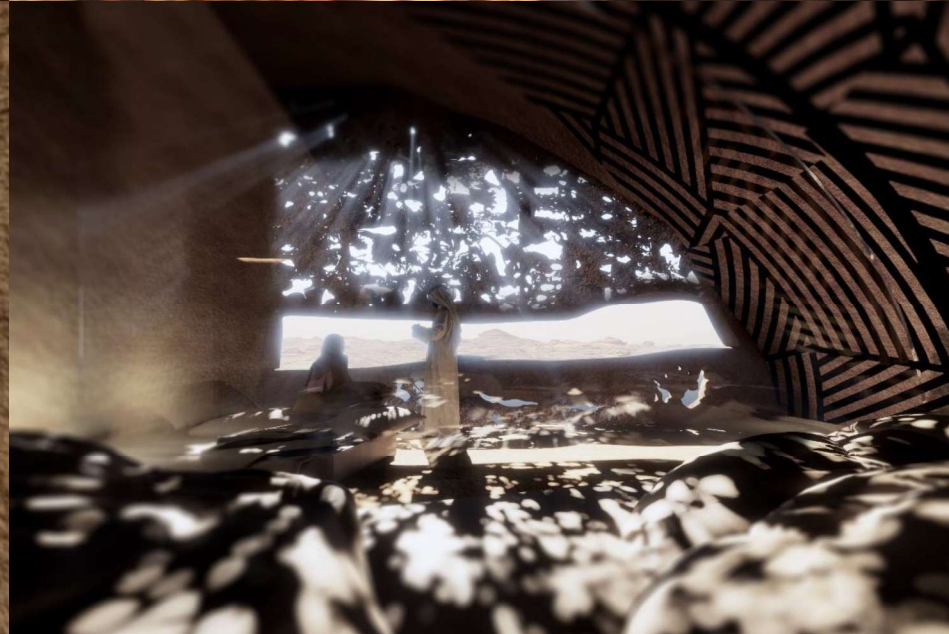
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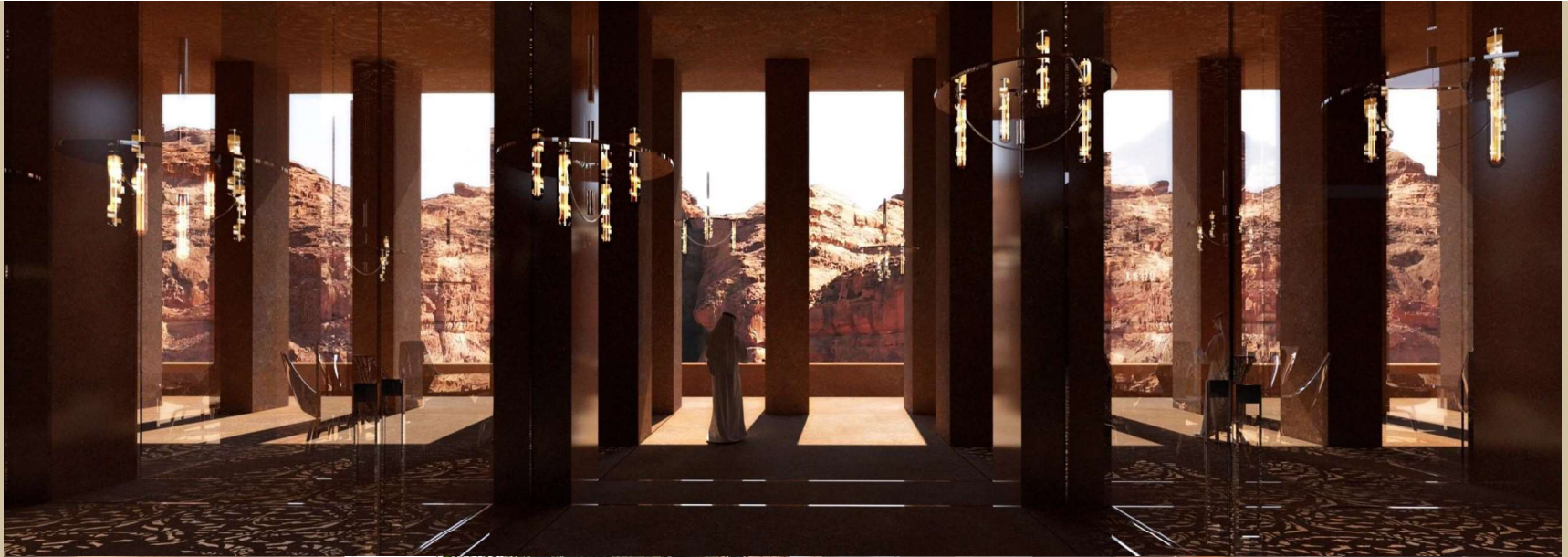
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VILLA HEGRA

Al Ula, KSA

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JAX CULTURAL HANGARS

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Designing For Low Life Cycle Carbon

SUSTAINABLE STRUCTURES

DESIGN

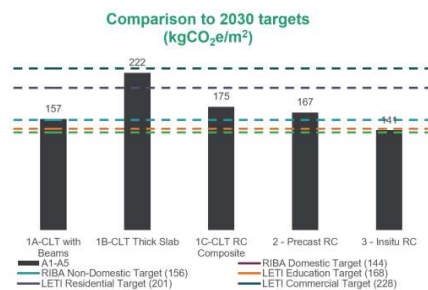
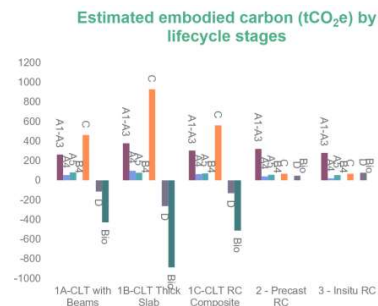
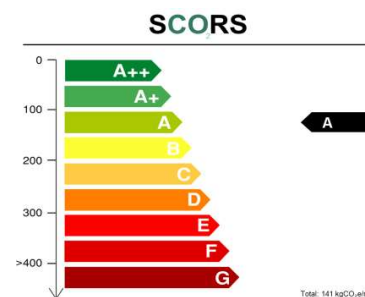
- Design for long lasting & adaptable structures in a circular economy
- Retention of existing high-quality structures within design proposals
- Designing for disassembly and re-use at end of life
- Reducing material quantities through efficient design and fabrication

MATERIALS

- Recycled and low carbon materials
- Reduced cement content or cement replacement
- Use of timber where practical

CALCULATING EMBODIED CARBON

- Whole life embodied carbon calculations to compare scheme proposals
- Integrated BIM carbon calculation tool
- Vulnerability assessment





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