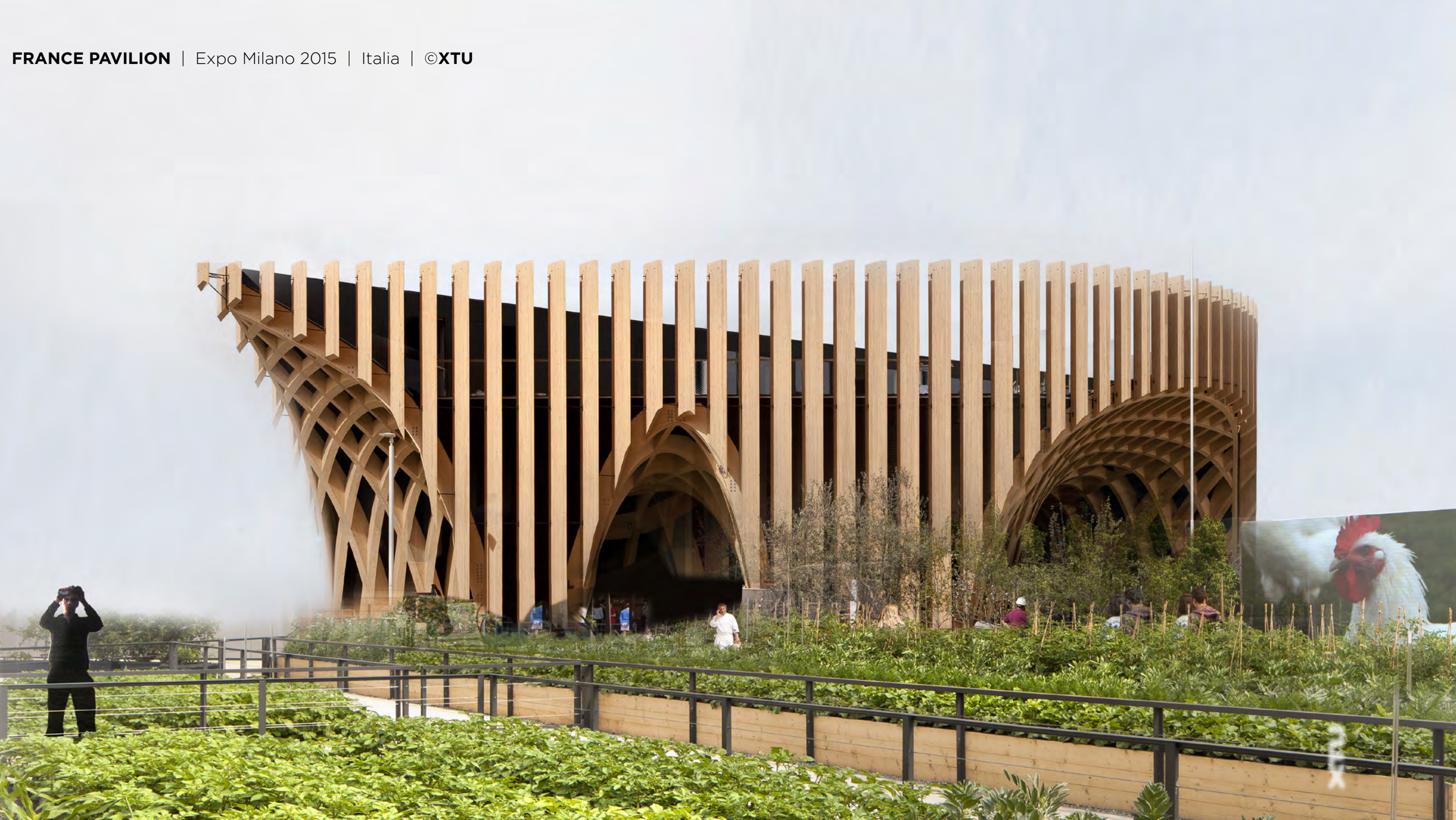
ARCHITECTS

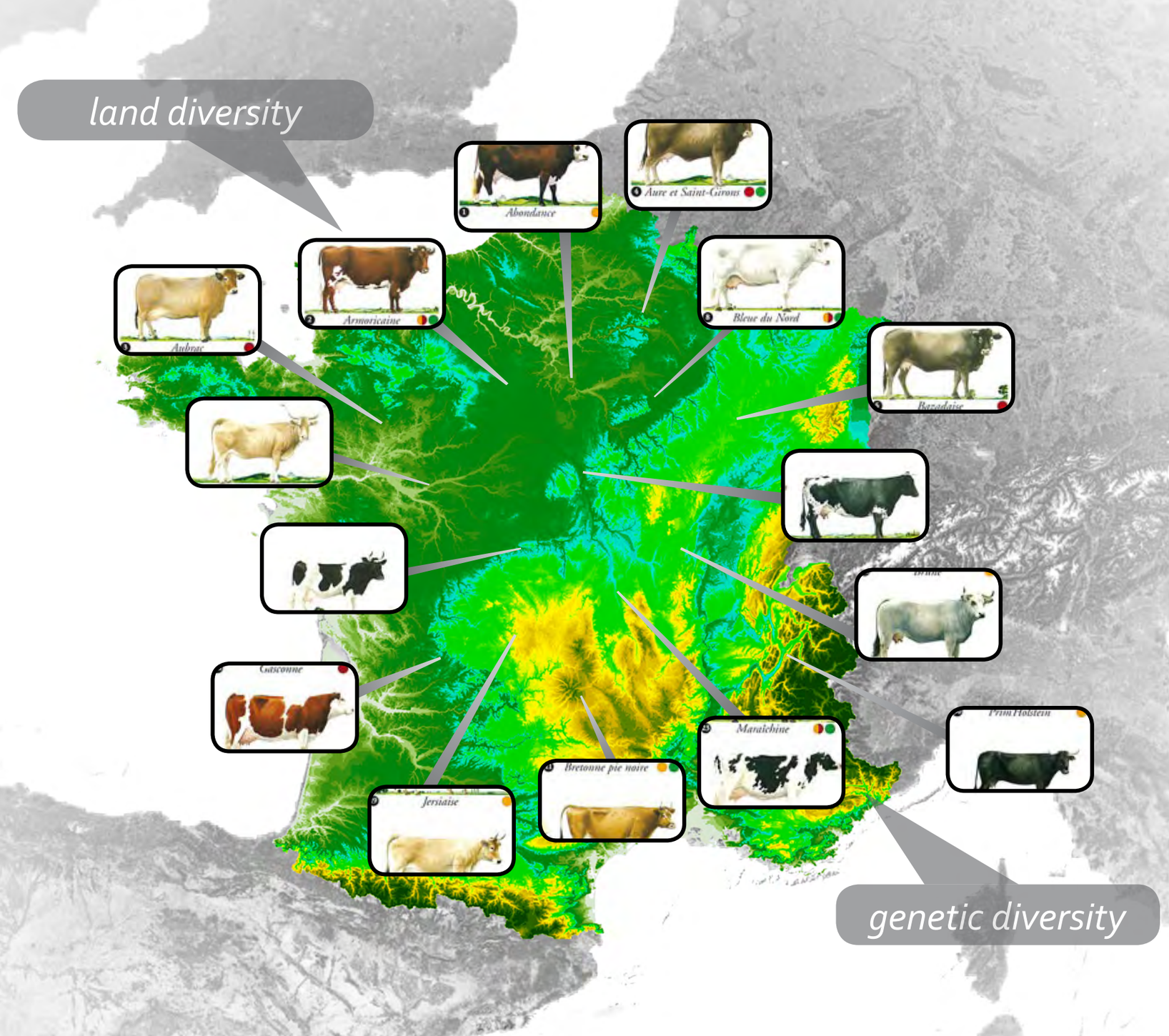
Anouk Legendre

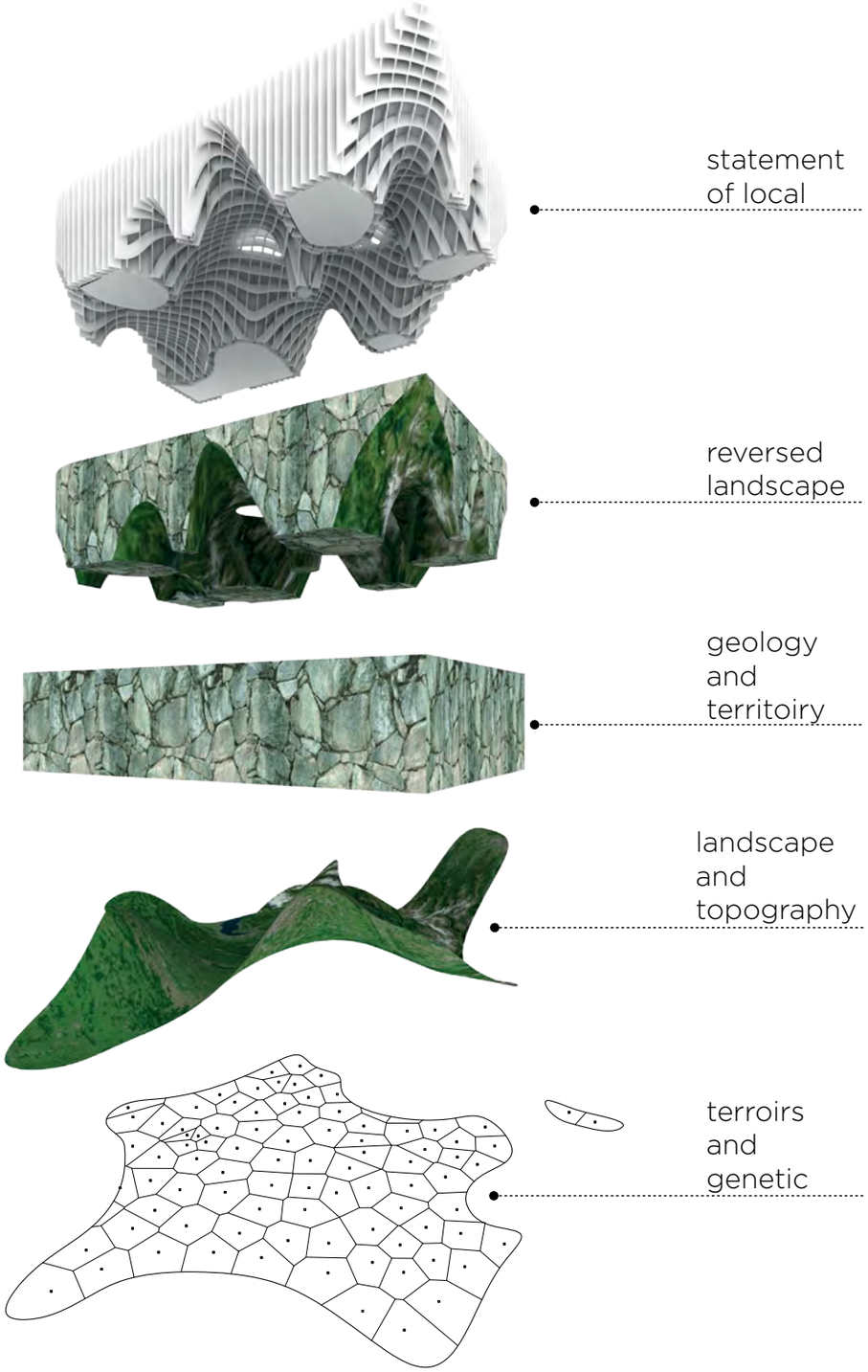
WOOD RISE
BOIS ET ARCHITECTURE

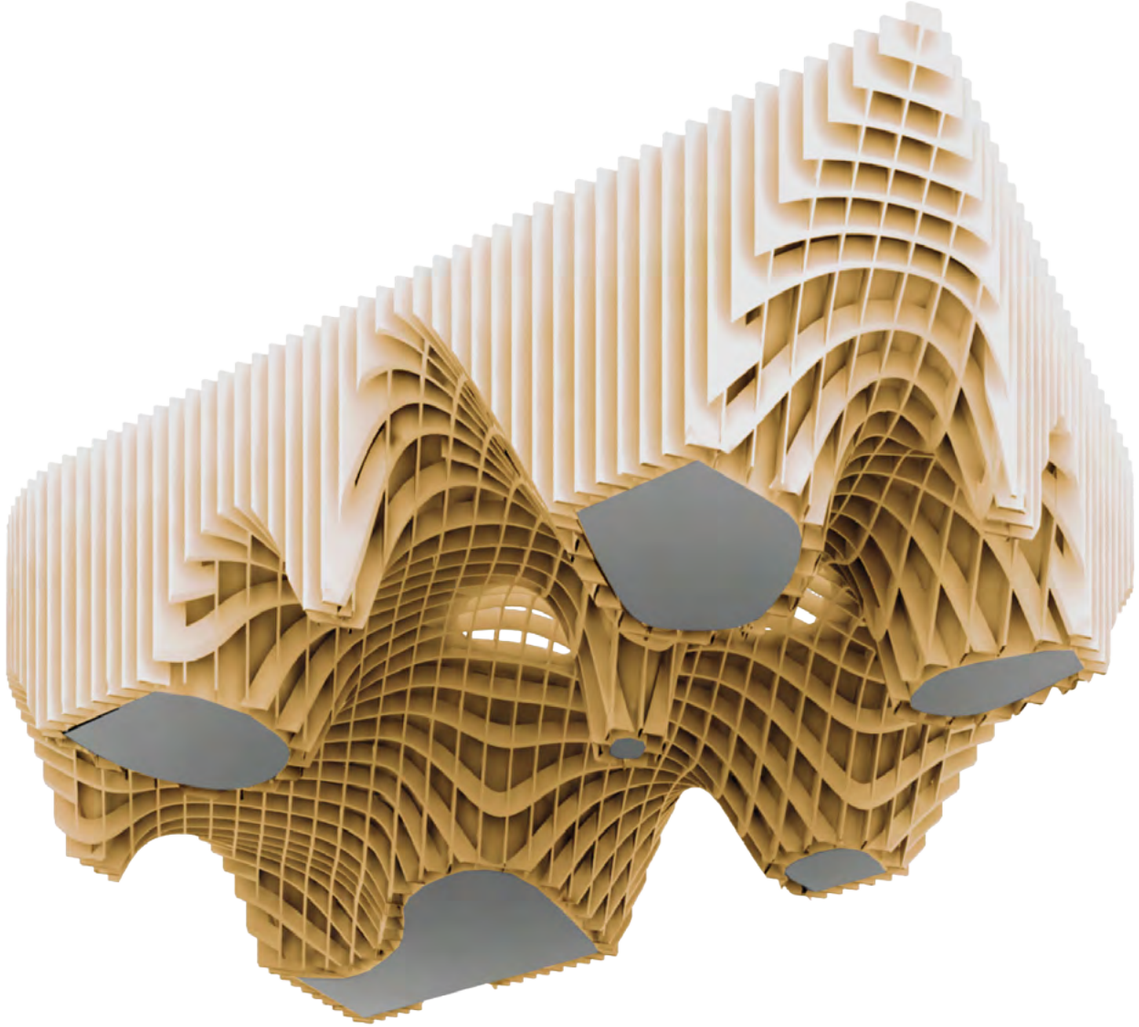
2019/02/01

FRANCE PAVILION | Expo Milano 2015 | Italia | ©**XTU**




land diversity
Abondance
Aure et Saint-Girons
Armoricaine
Bleue du Nord
Aubrac
Bazadaise
Gasconne
Prim'Holstein
Manaichine
Bretonne pie noire
Jersiaise
genetic diversity

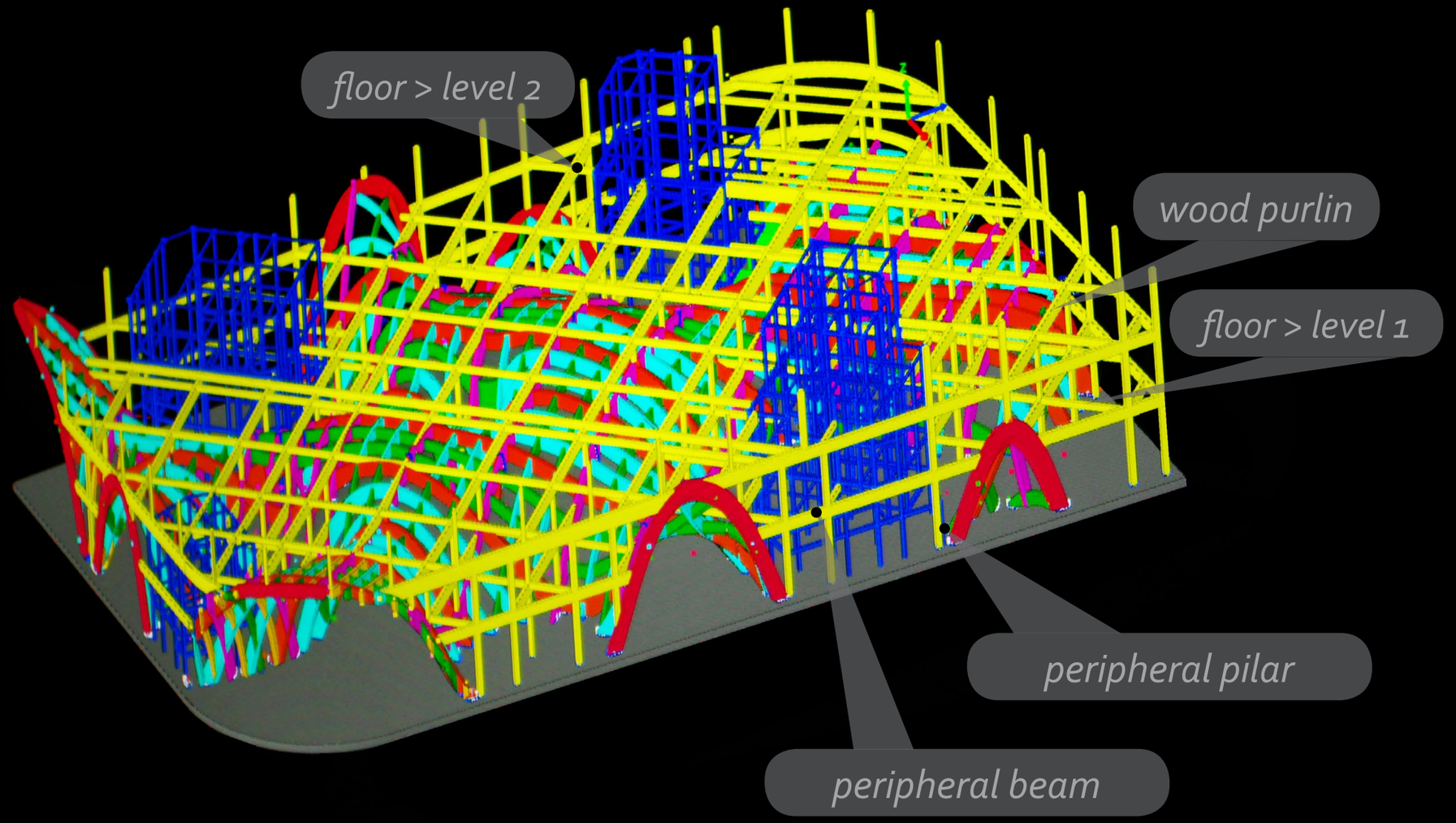

statement
of local
reversed
landscape
geology
and
territoiry
landscape
and
topography
terroirs
and
genetic



FRENCH EXCELLENCE IN WOOD CONSTRUCTION

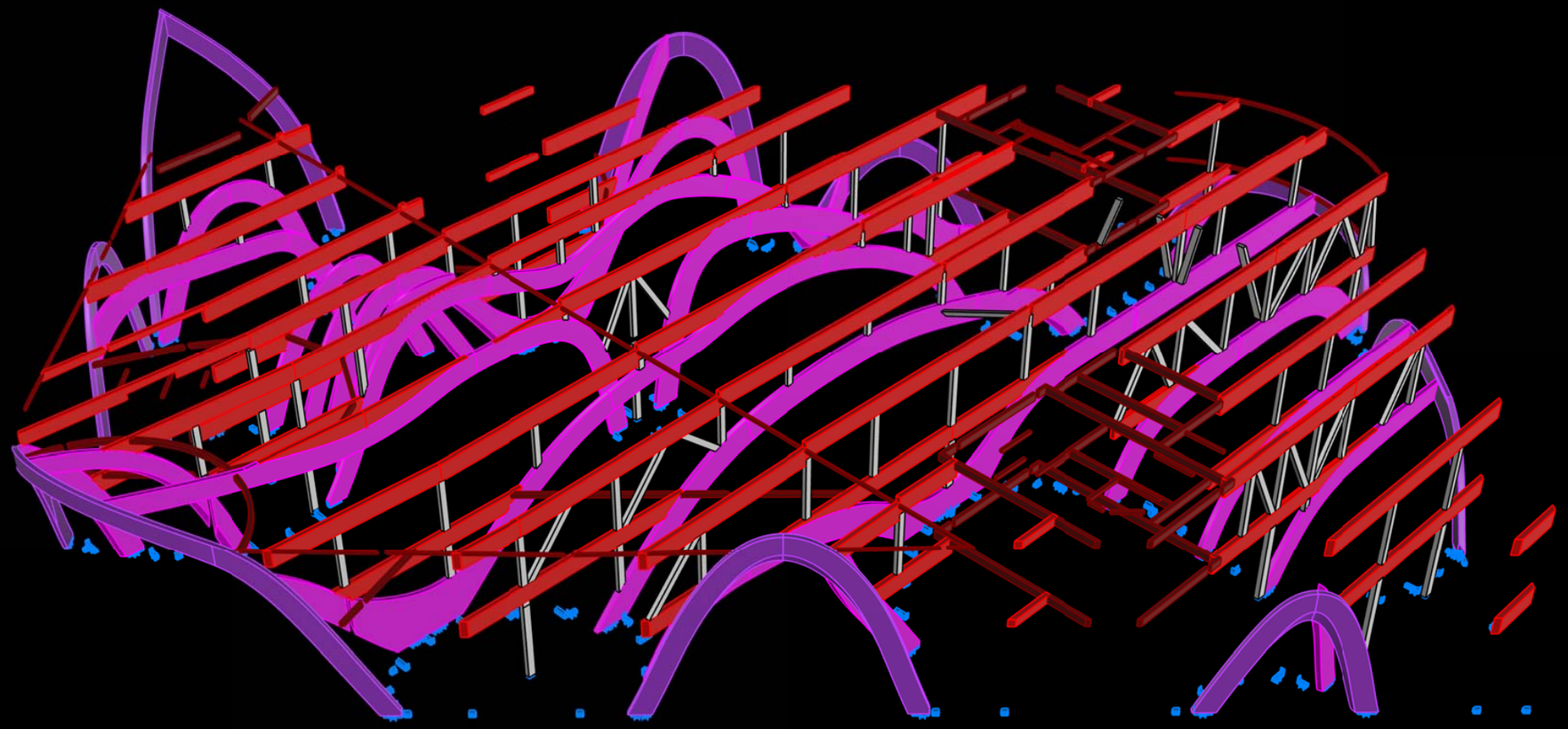
principe of the structures

Purple:	principal
Orange beam:	primary struts
Blue:	secondary struts
Green:	tertiary struts

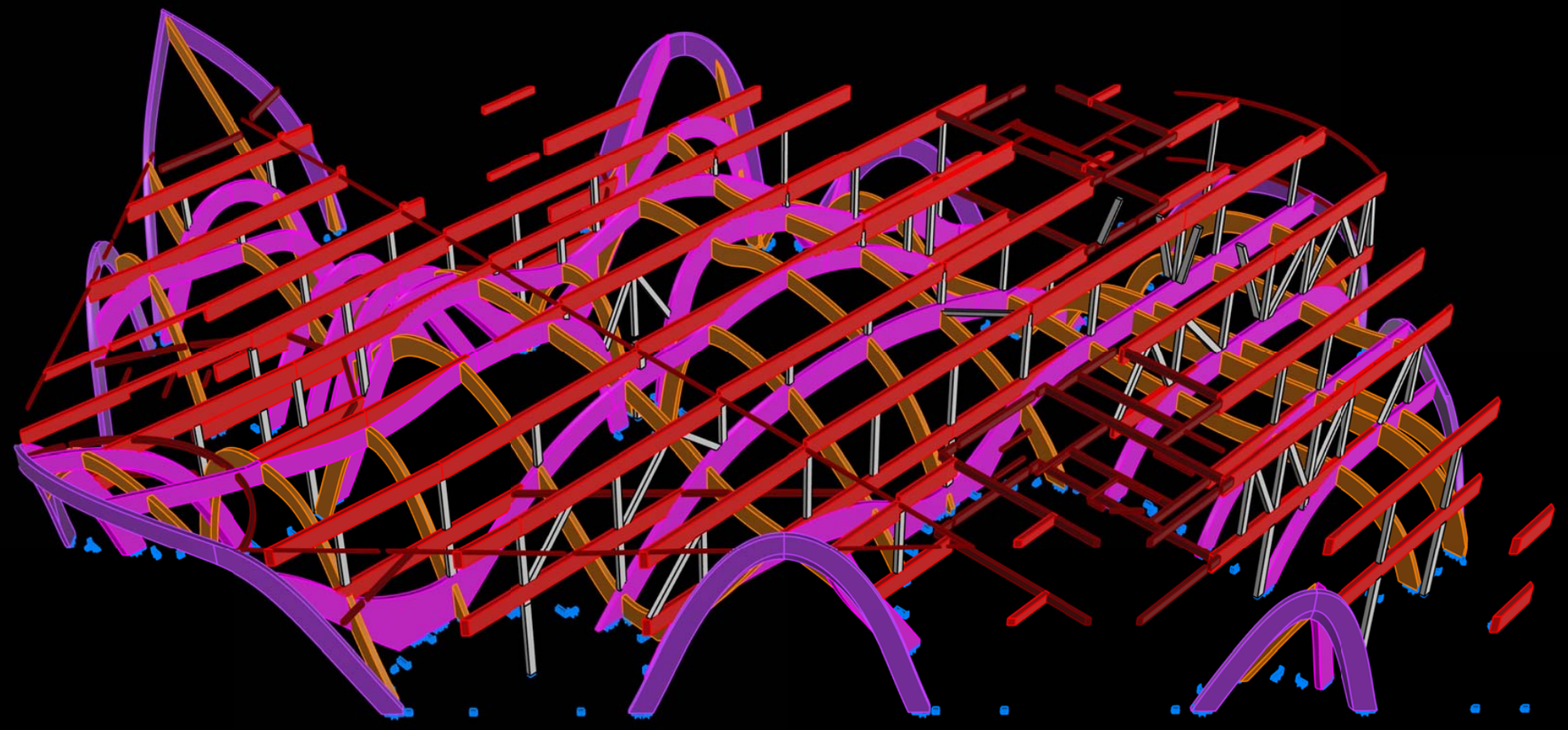


The hierarchy of structures

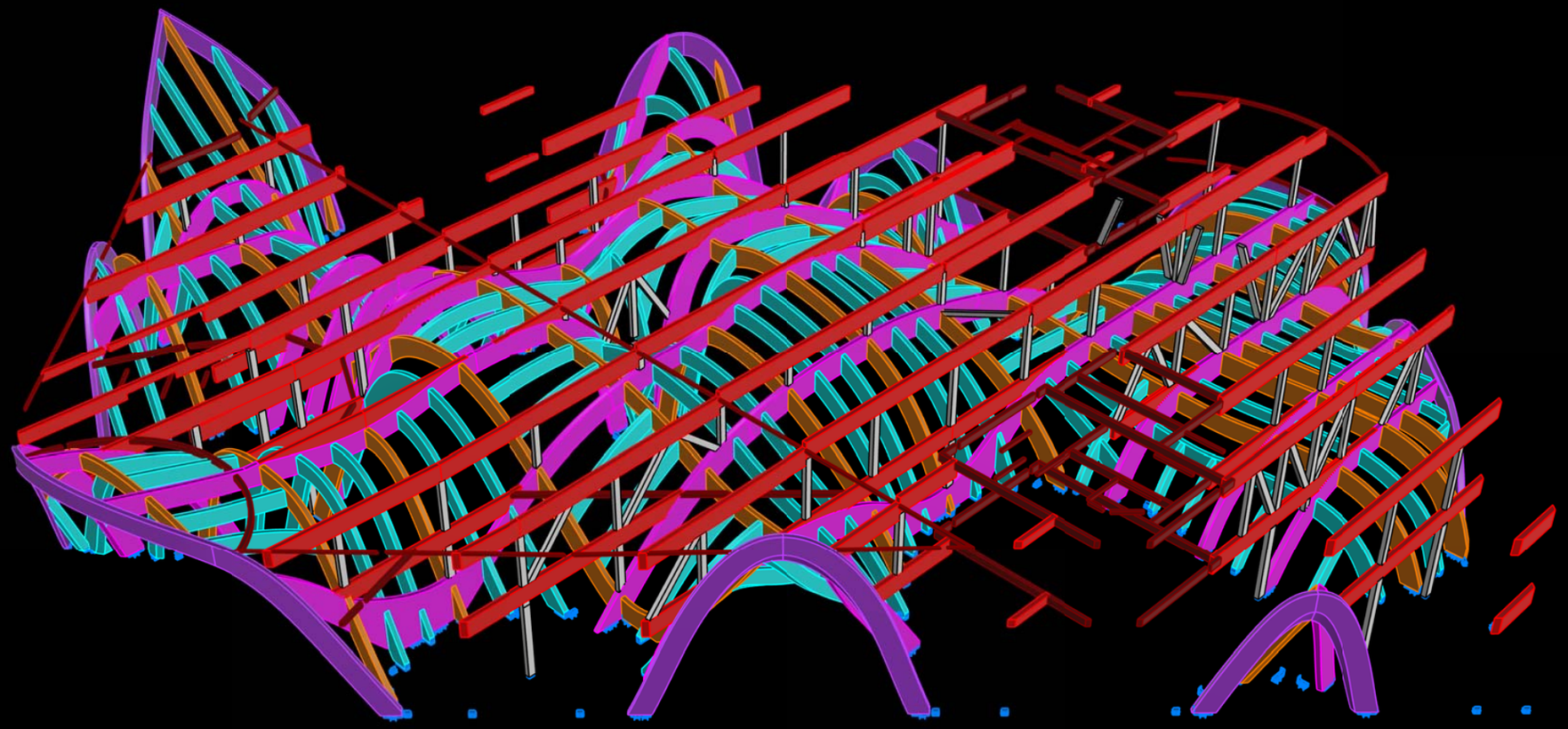
Principales



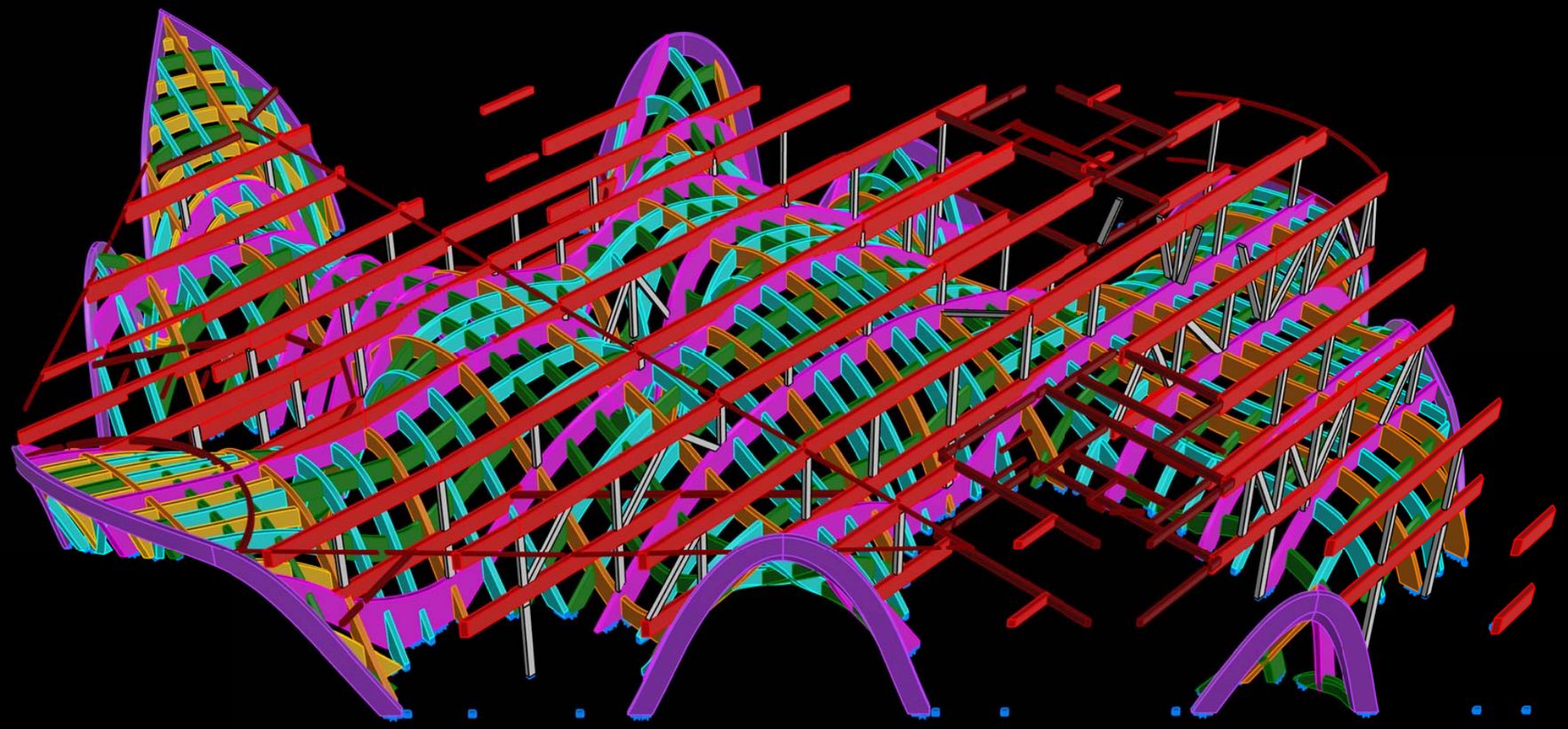
Primary struts



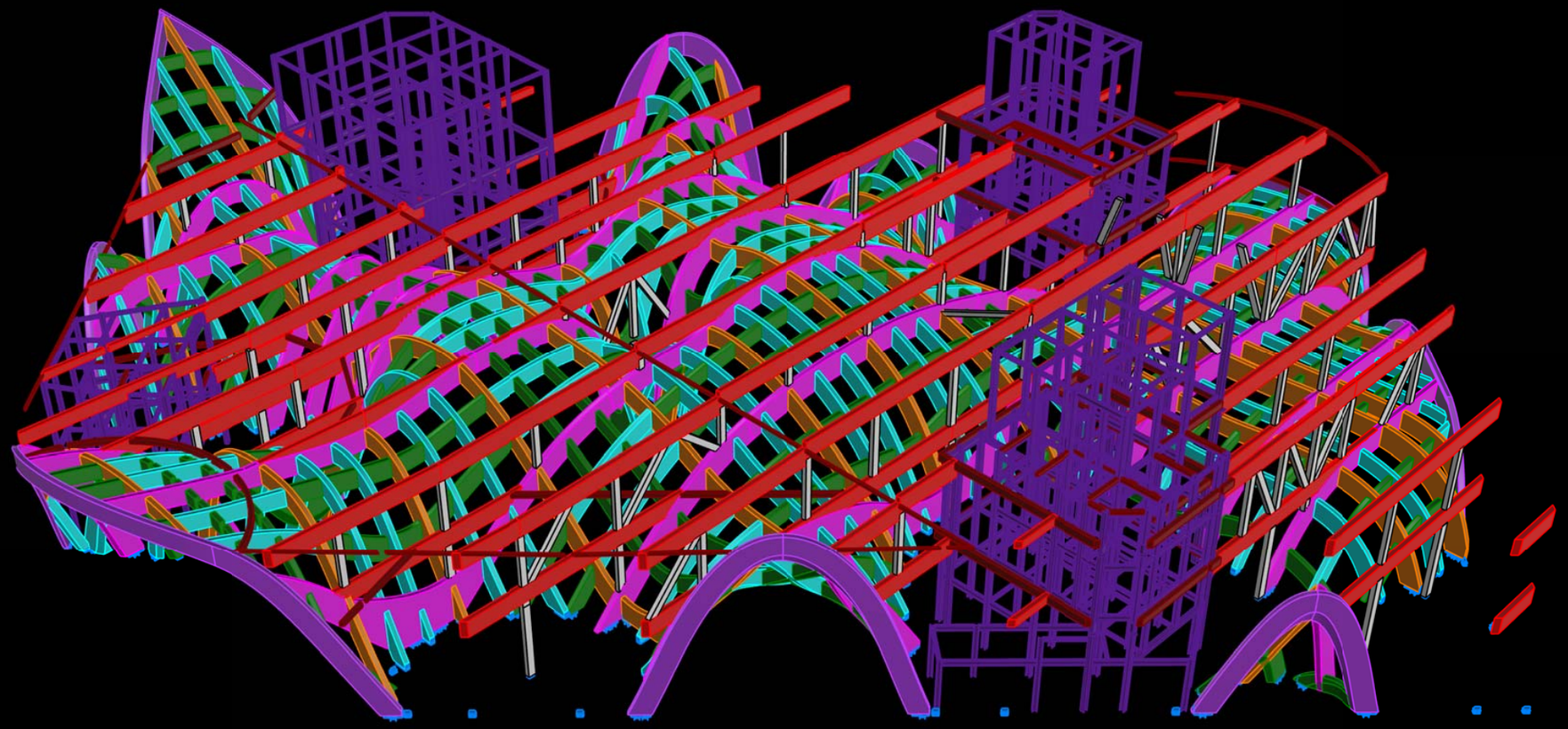
Secondary struts

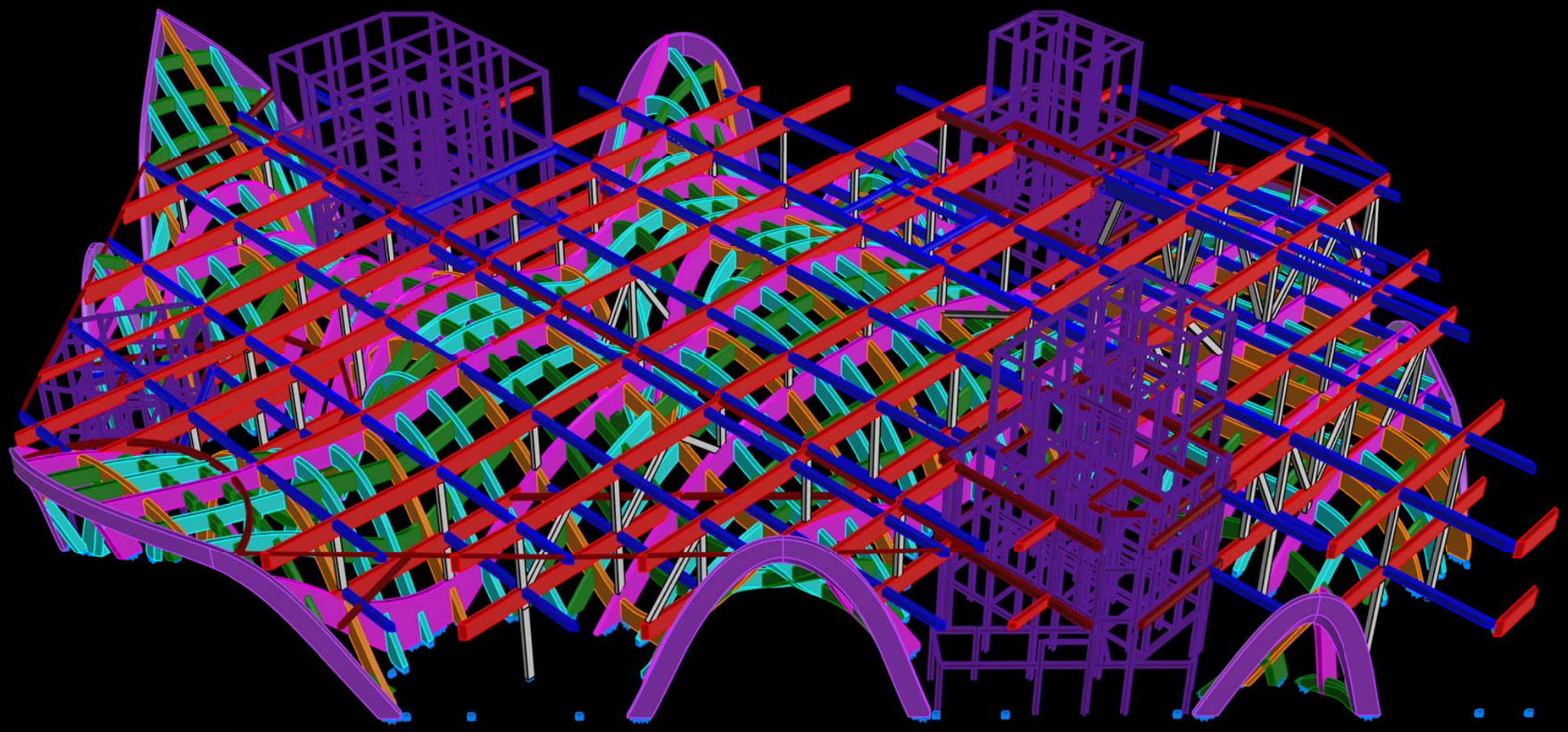


Tertery struts

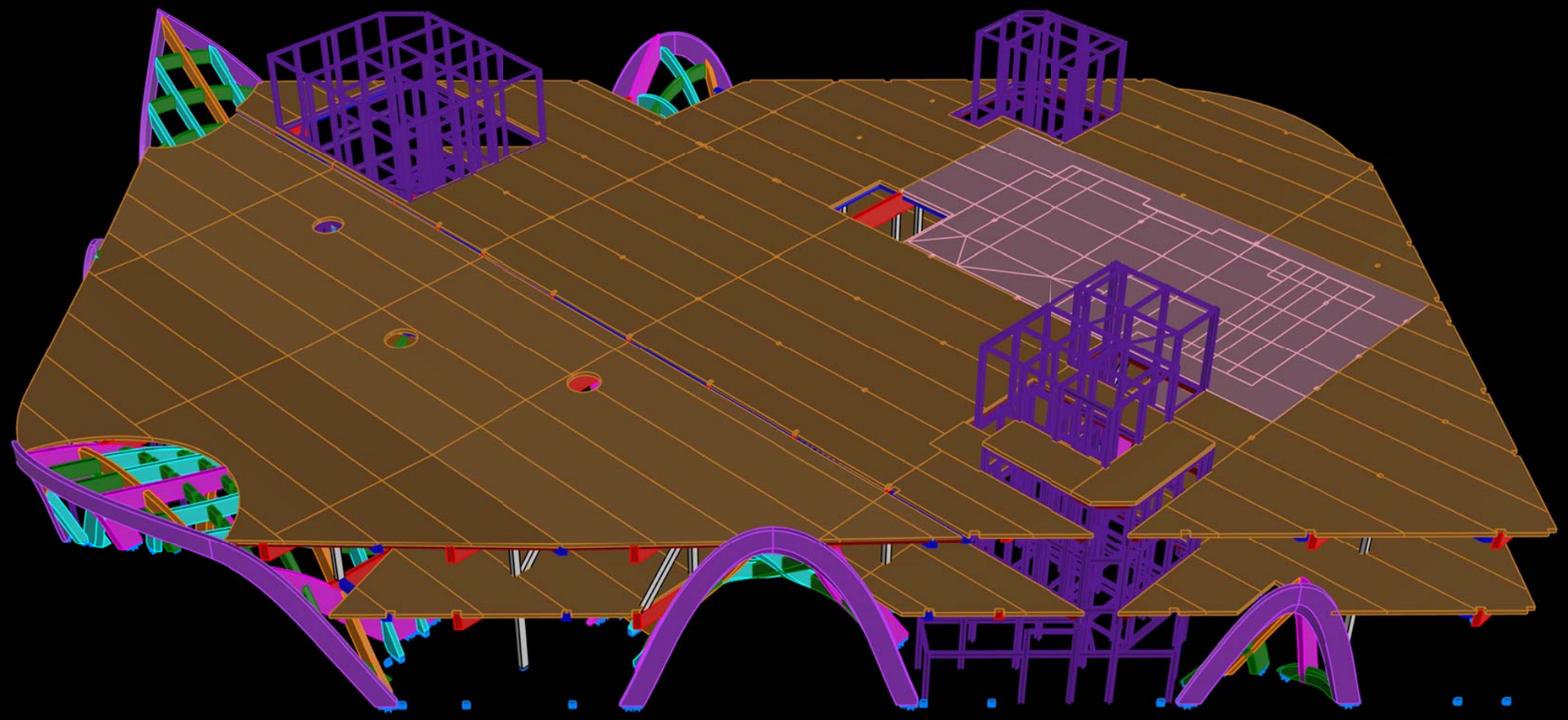


Steel structures

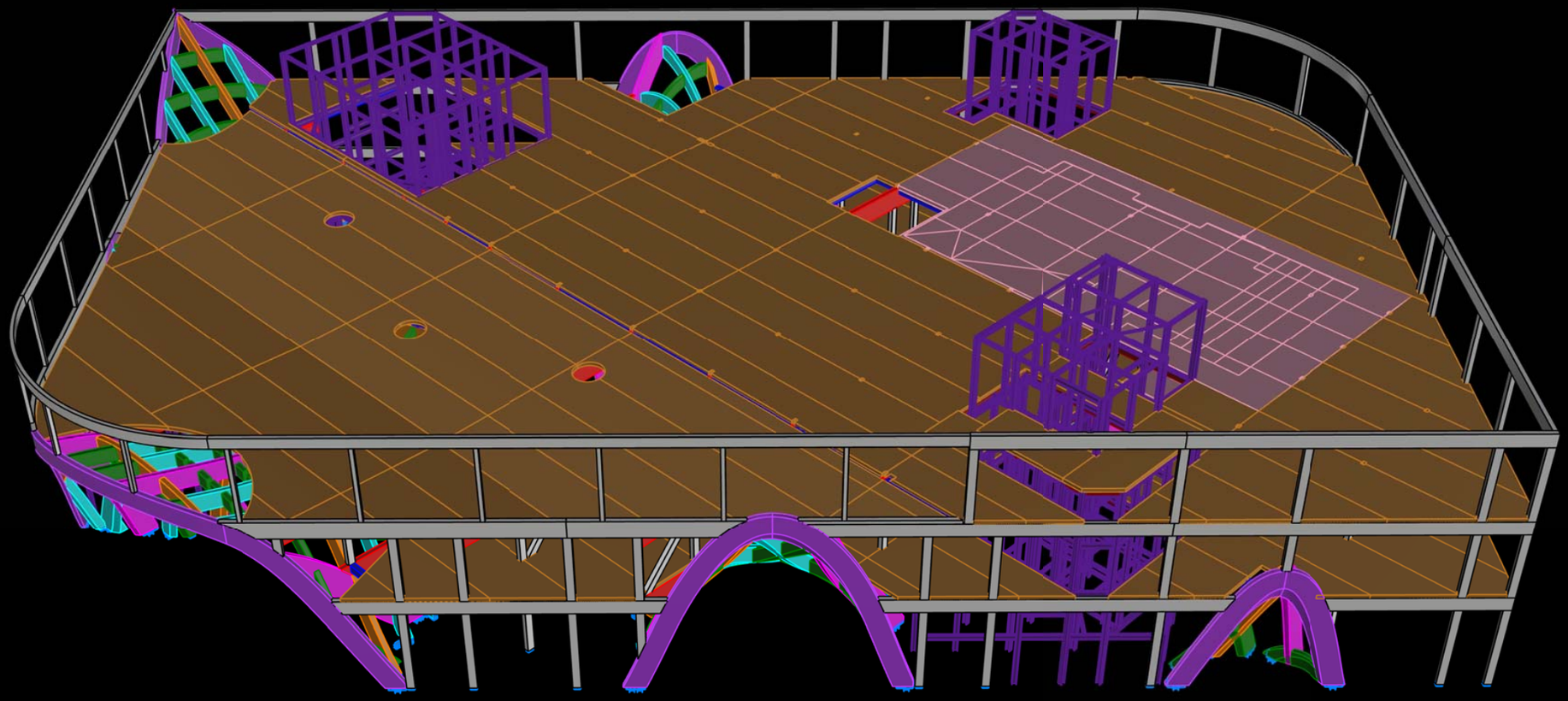




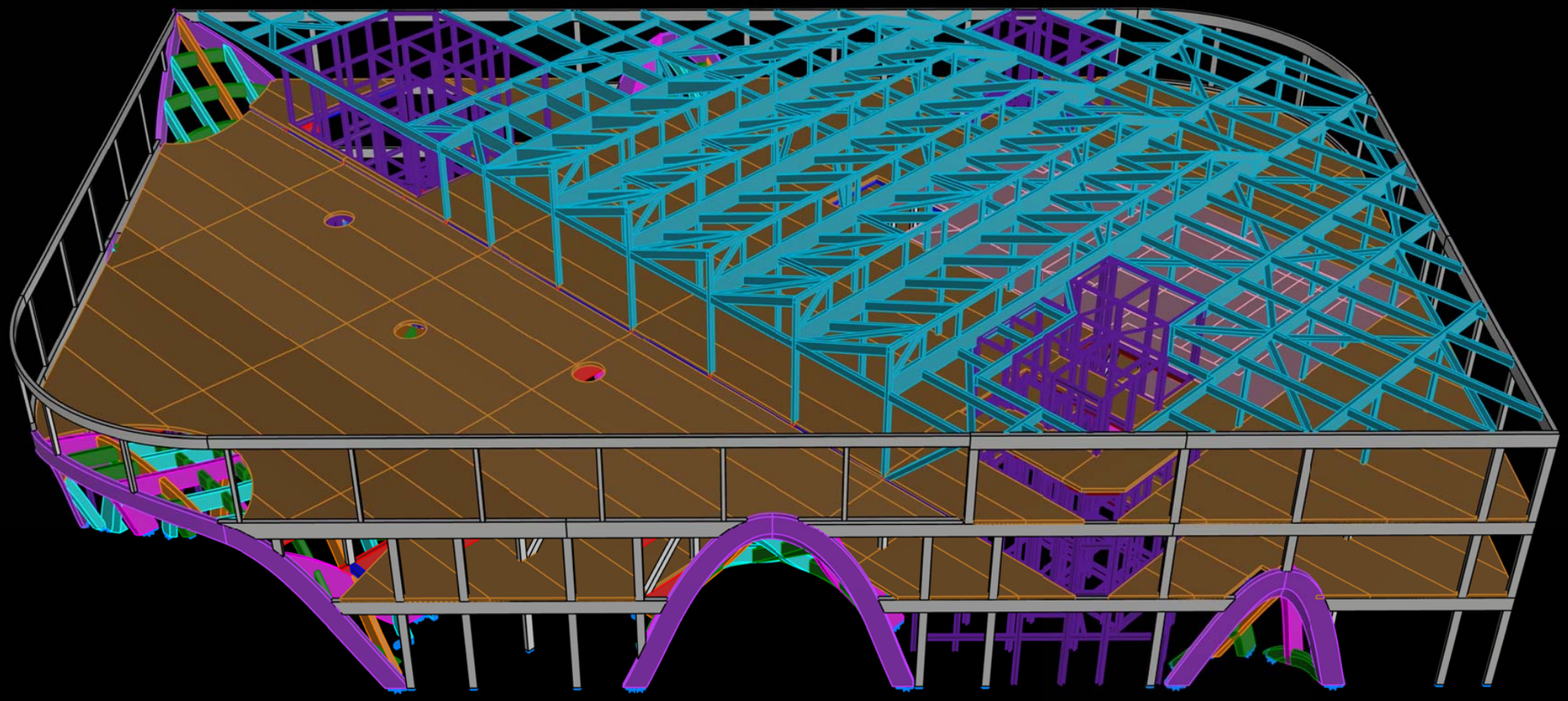
Wooden floor [CLT]



Facade structure

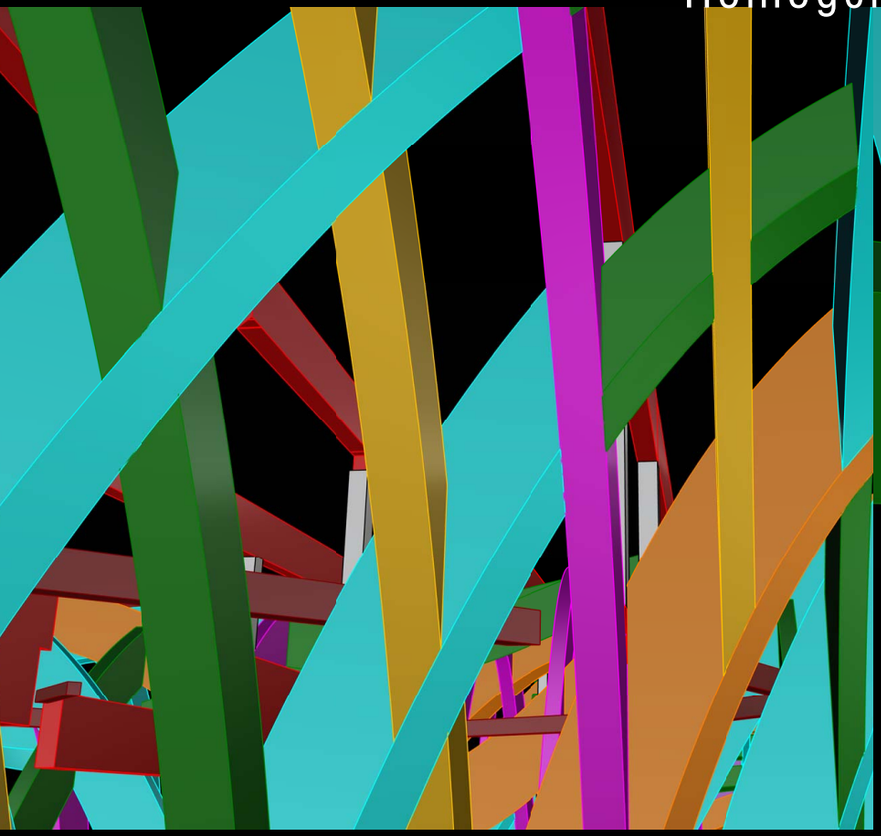


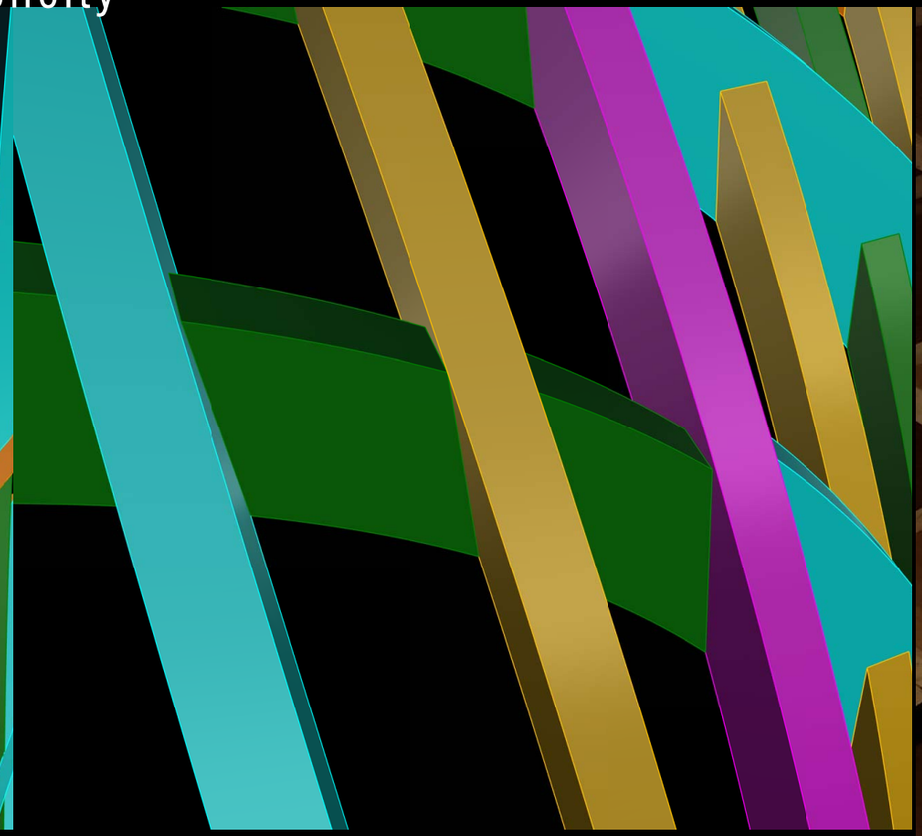
Shed structure [wood]



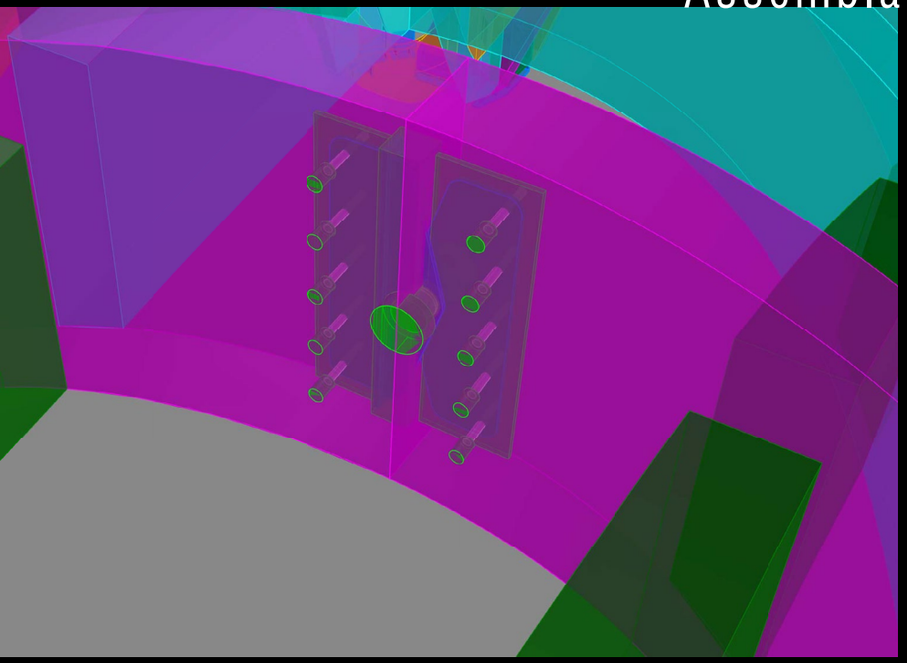
structure designs the facad

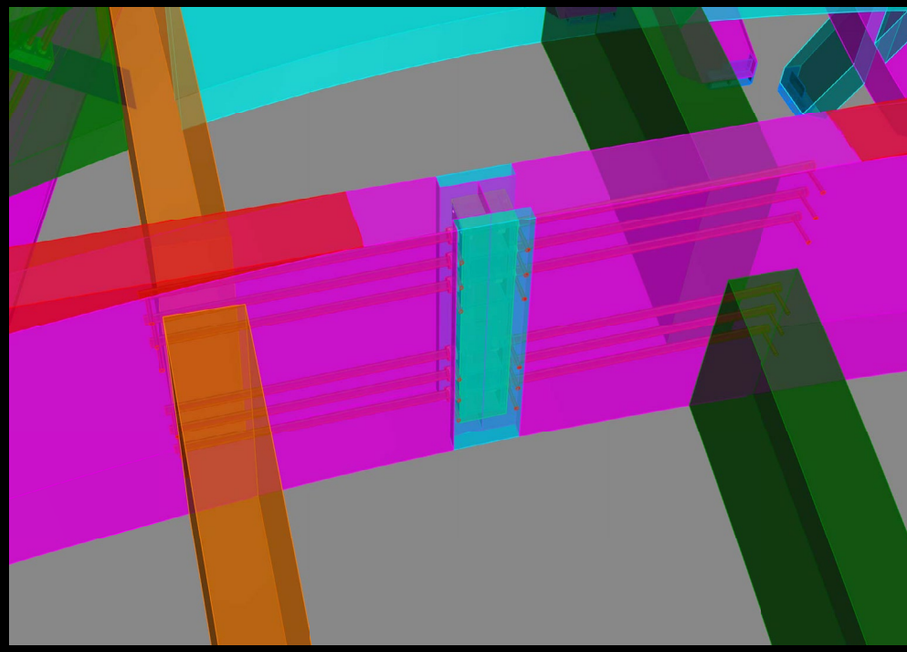
Homogeneity

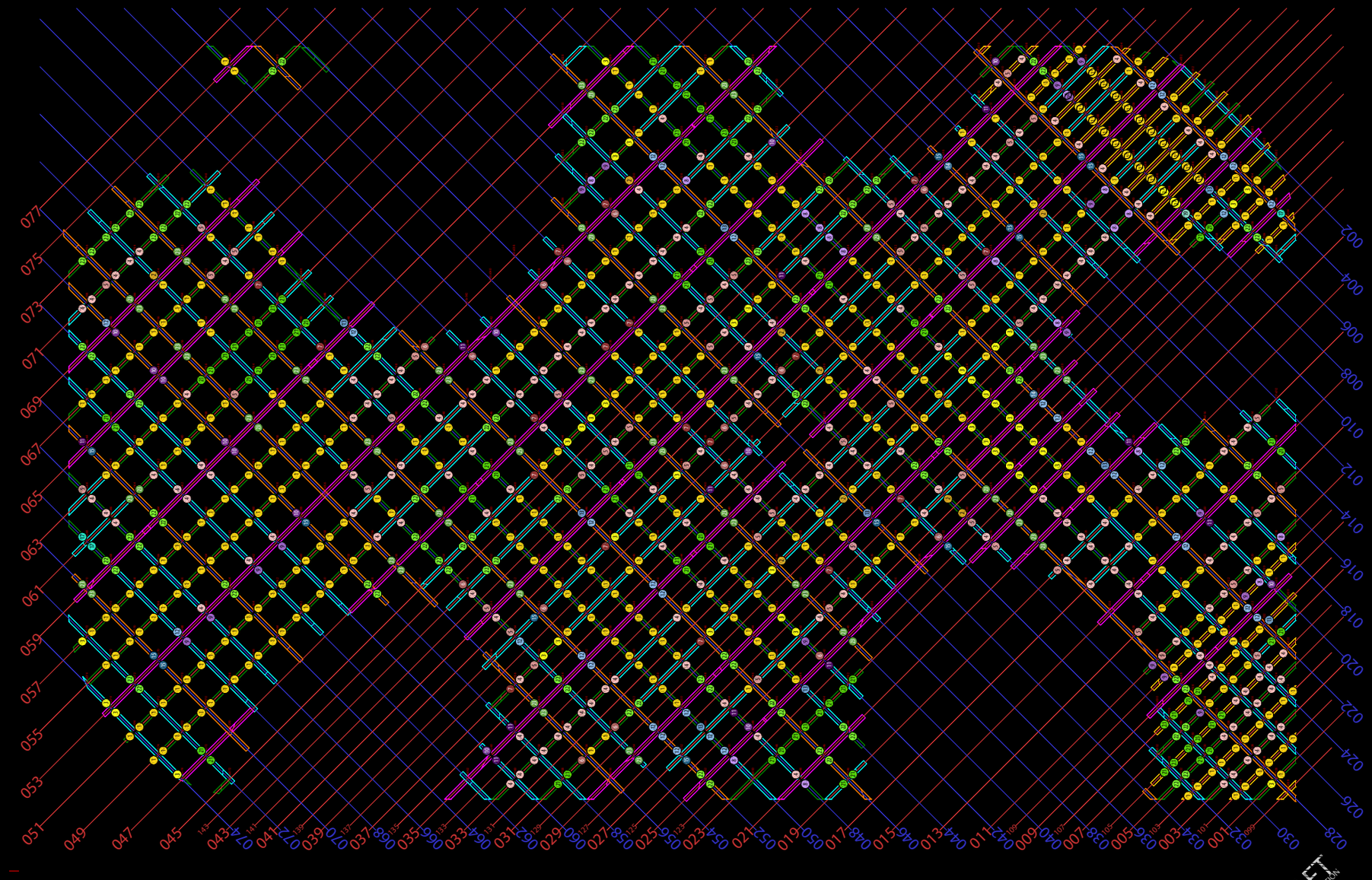




Assemblages







DRAFT
NOT FOR REPRODUCTION

PRESENTATION DES TYPES D'ASSEMBLAGES

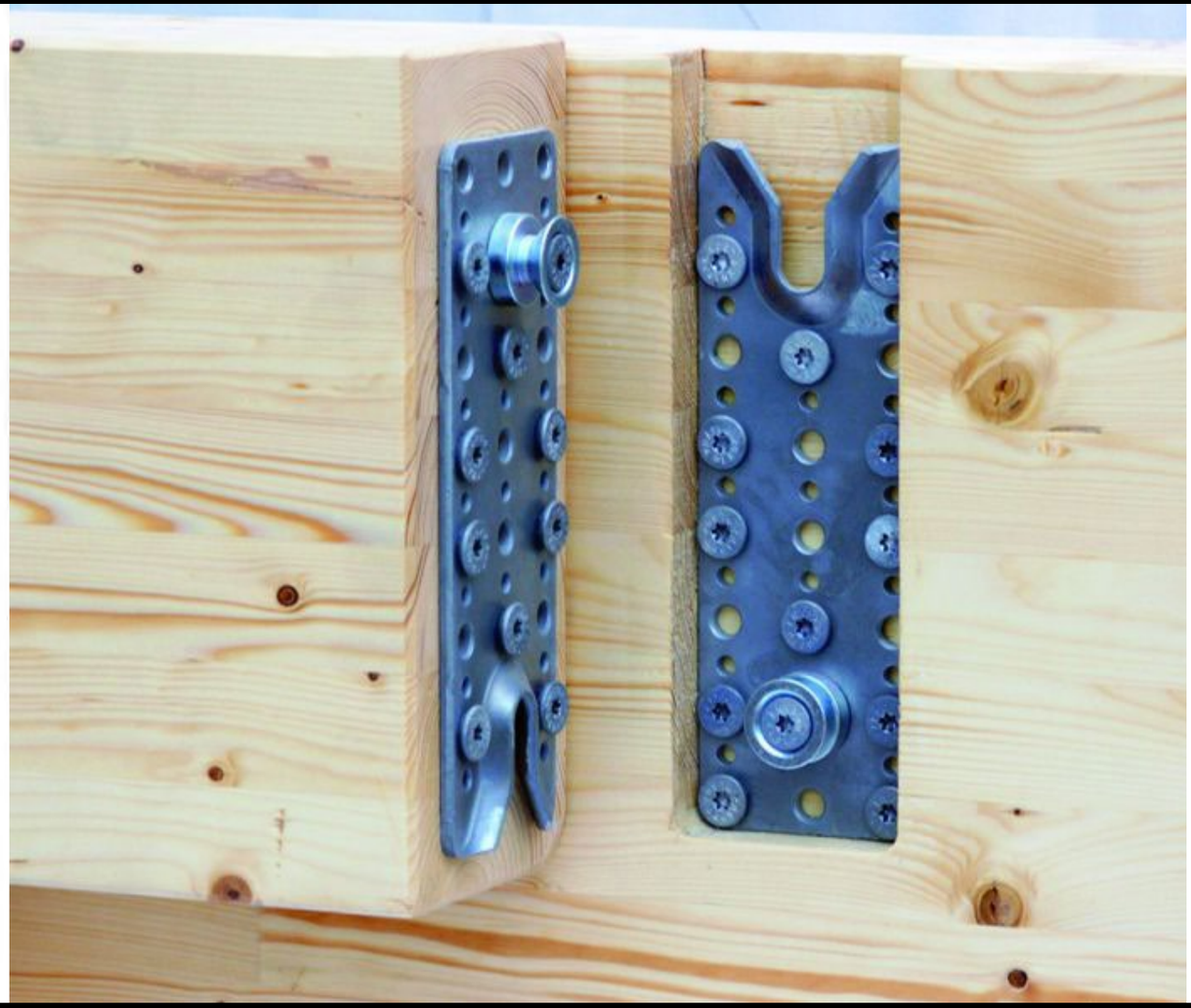
Les assemblages entre pièces de bois courbes de la canopée sont réalisés à partir des 4 familles d'assemblages suivants:

Connecteurs Knapp Ricon S

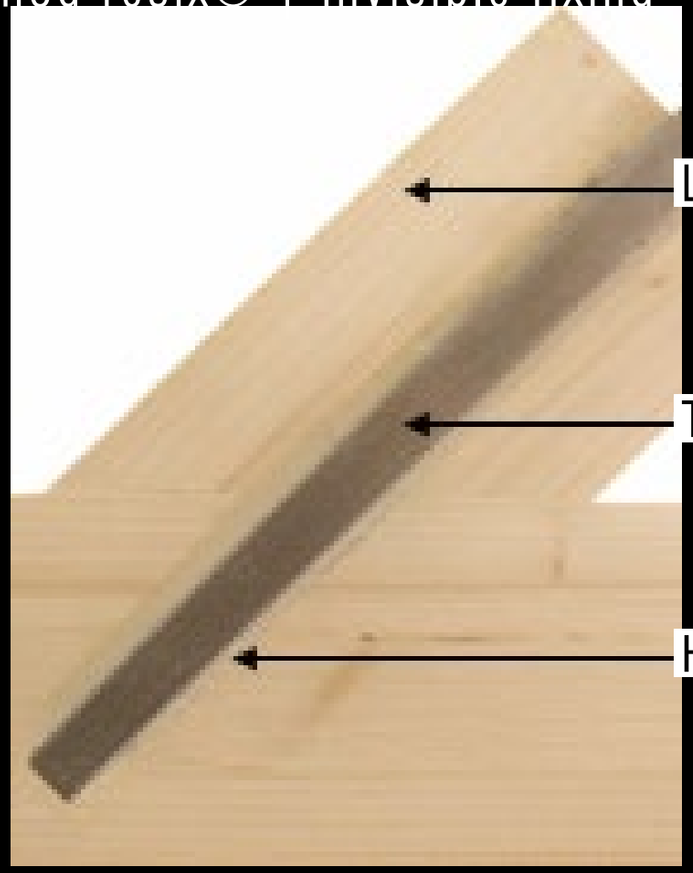
Type Ricon S 60 -200 VS + vis 8x160 et 8x80
Type Ricon S 80 -200 VS + vis 10x200 et 10x100
Montage depuis le dessus

Connecteurs Knapp Megant

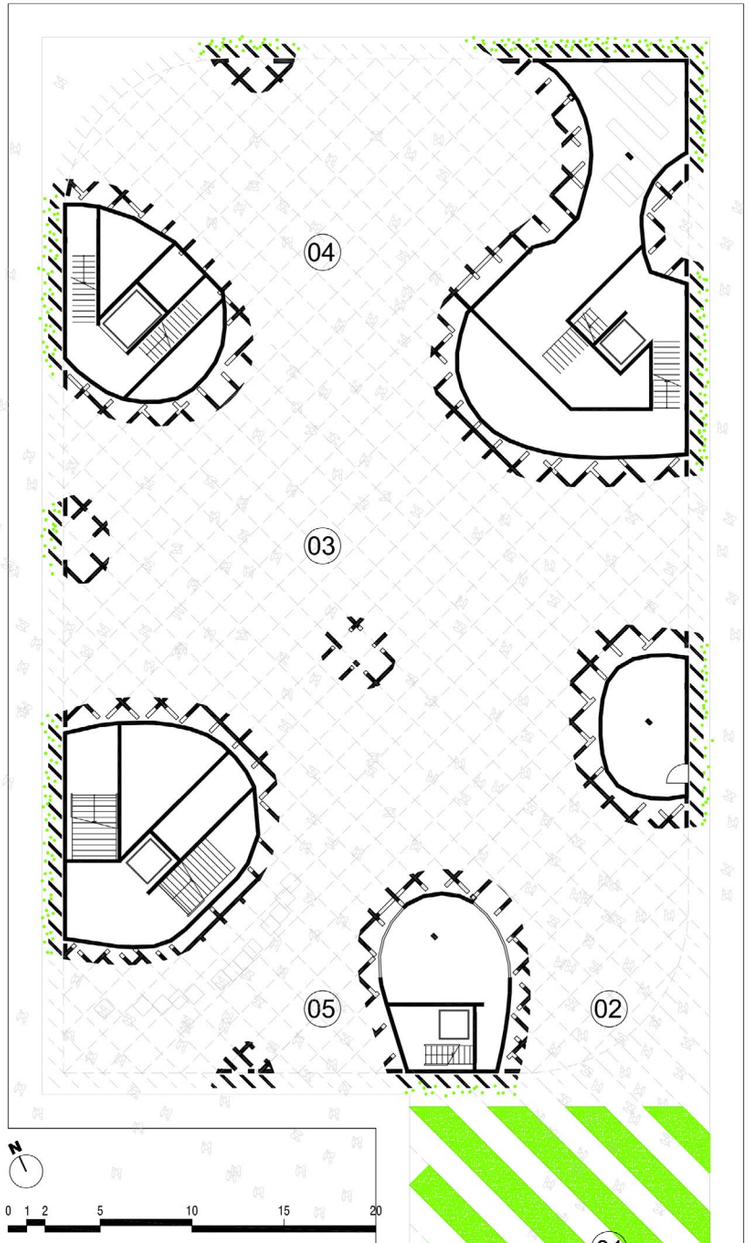
Type Megant 60 - 290 + vis 8x160
Type Megant 60 - 290 + vis 8x240
Type Megant 100 - 290 + vis 8x160
Type Megant 100 - 290 + vis 8x240
Type Megant 100 - 405 + vis 8x160
Type Megant 100 - 405 + vis 8x240
Type Megant 100 - 520 + vis 8x160
Type Megant 100 - 520 + vis 8x240
Montage depuis le dessous
Possibilité d'orienter les vis dans les 2 directions selon le sens de l'effort vertical dominant

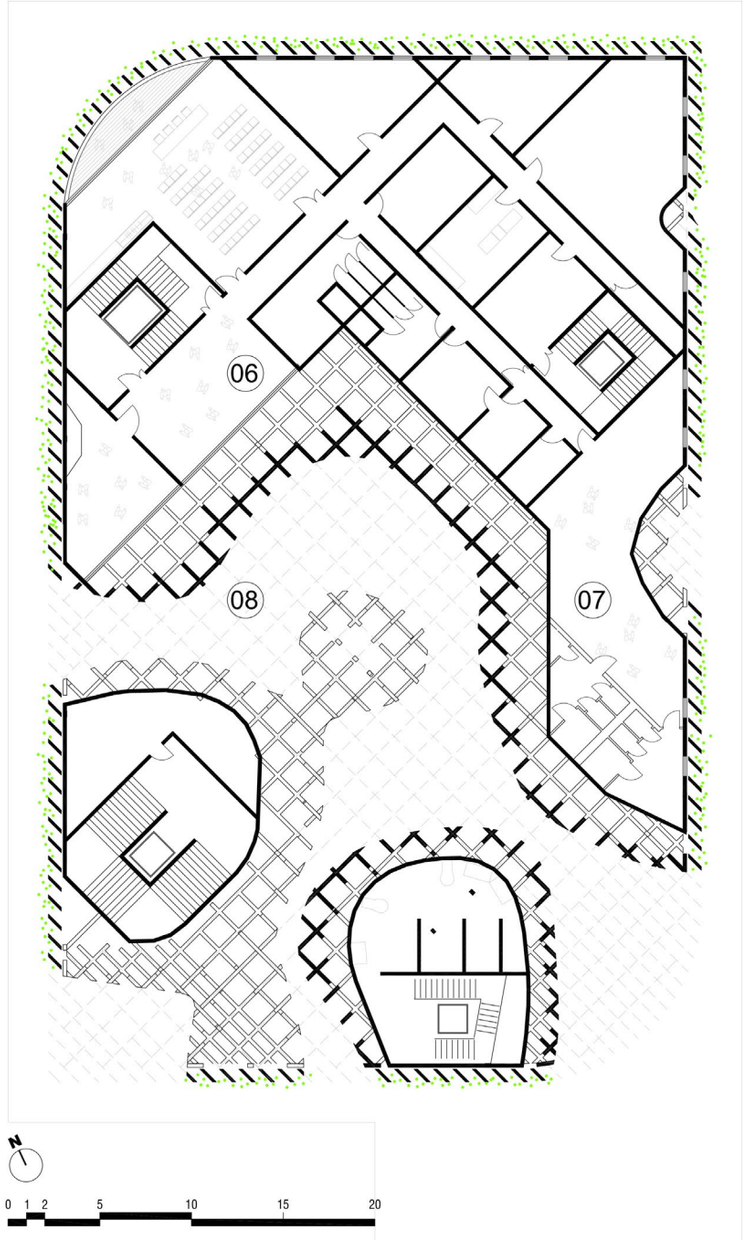


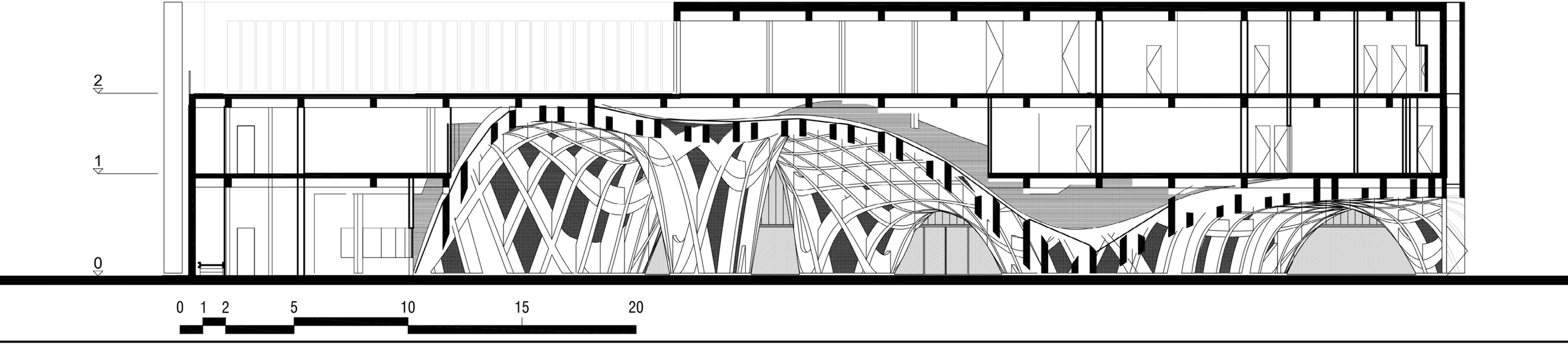
using the method resix® | invisible fixing



the organization of the plan diagonally



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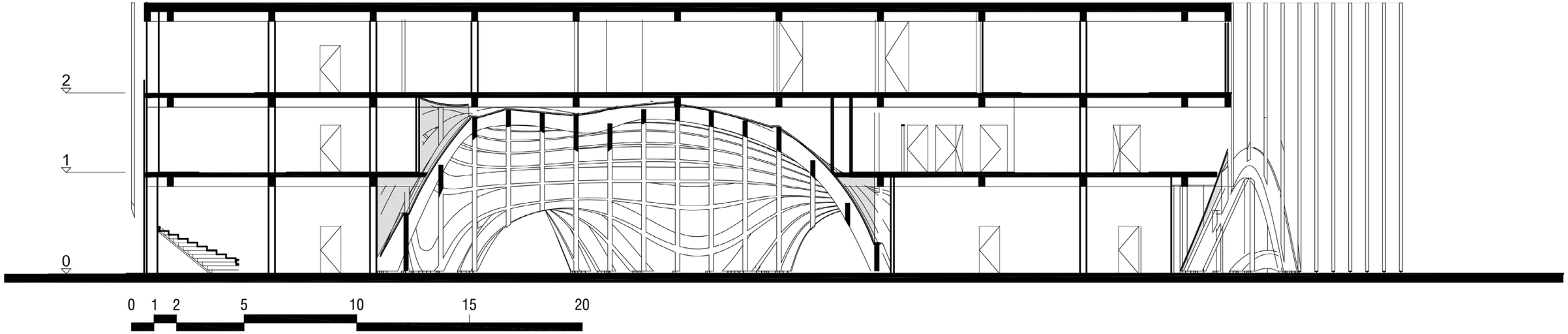
2
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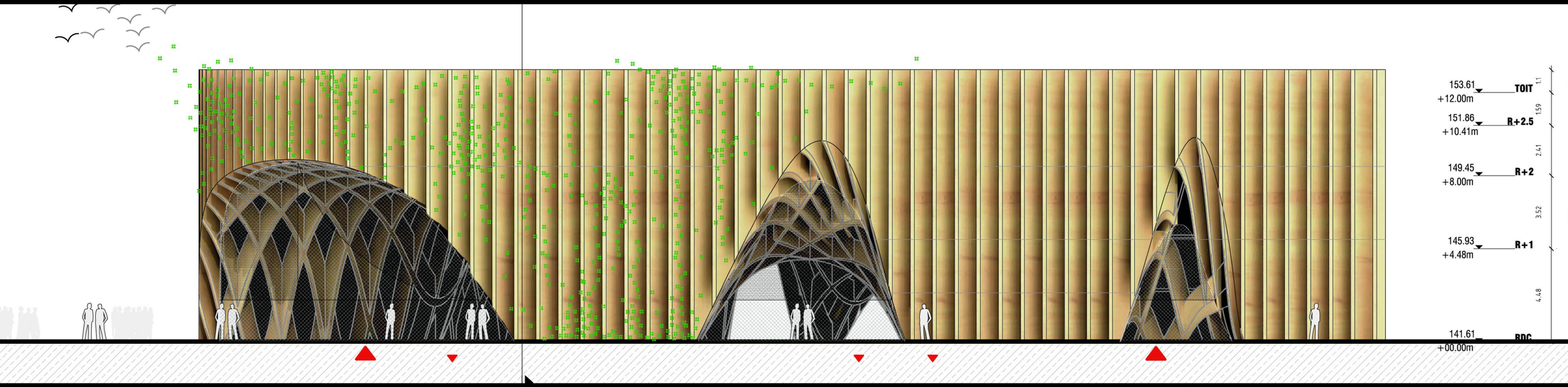
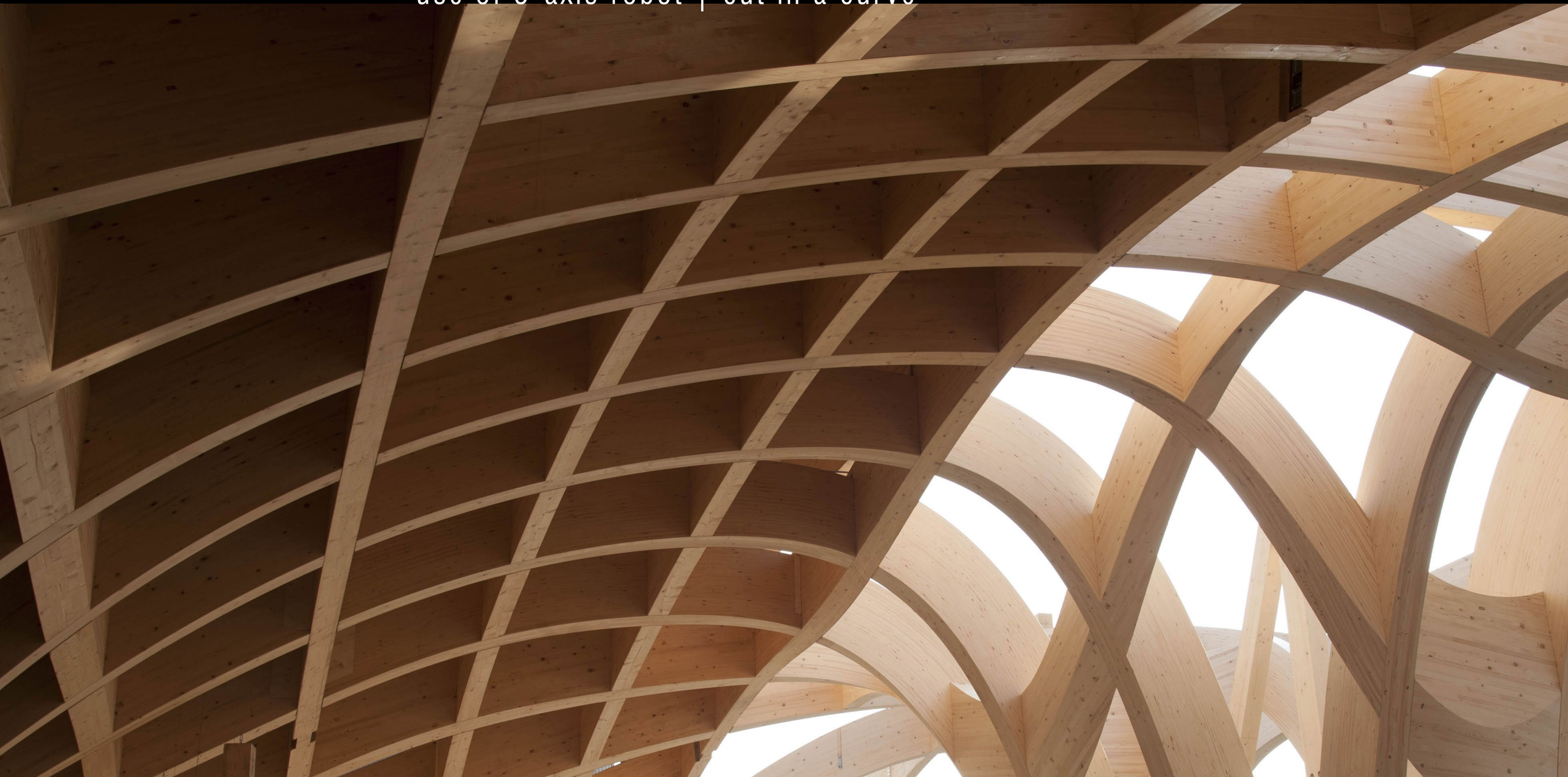

153.61
+12.00m
TOIT
151.86
+10.41m
R+2.5
149.45
+8.00m
R+2
145.93
+4.48m
R+1
141.61
+00.00m
RDC
1.1
1.59
2.41
3.52
4.48

153.61
+12.00m
TOIT
151.86
+10.41m
R+2.5
149.45
+8.00m
R+2
145.93
+4.48m
R+1
141.61
+00.00m
RDC
1.1
1.59
2.41
3.52
4.48
12.00

use of 5-axis robot | cut in a curve



system of
invisible fixing

système de
fixation invisible

REX

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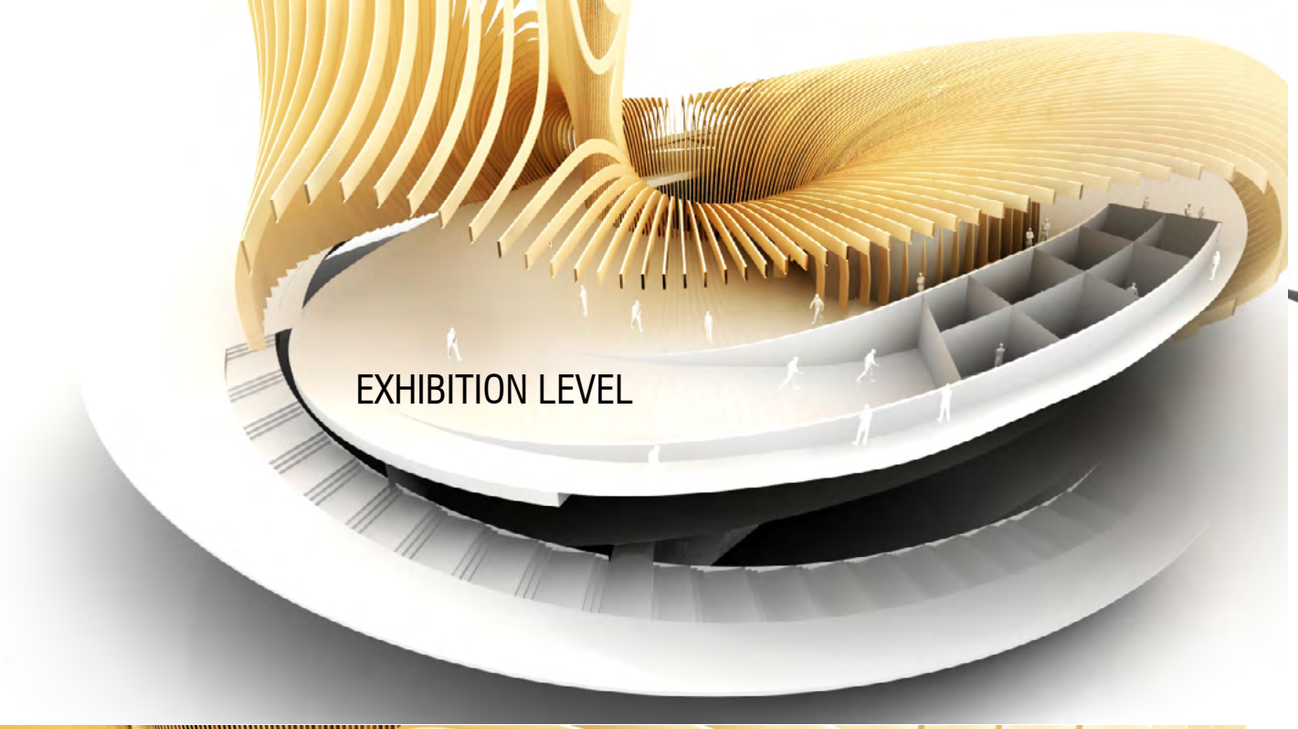
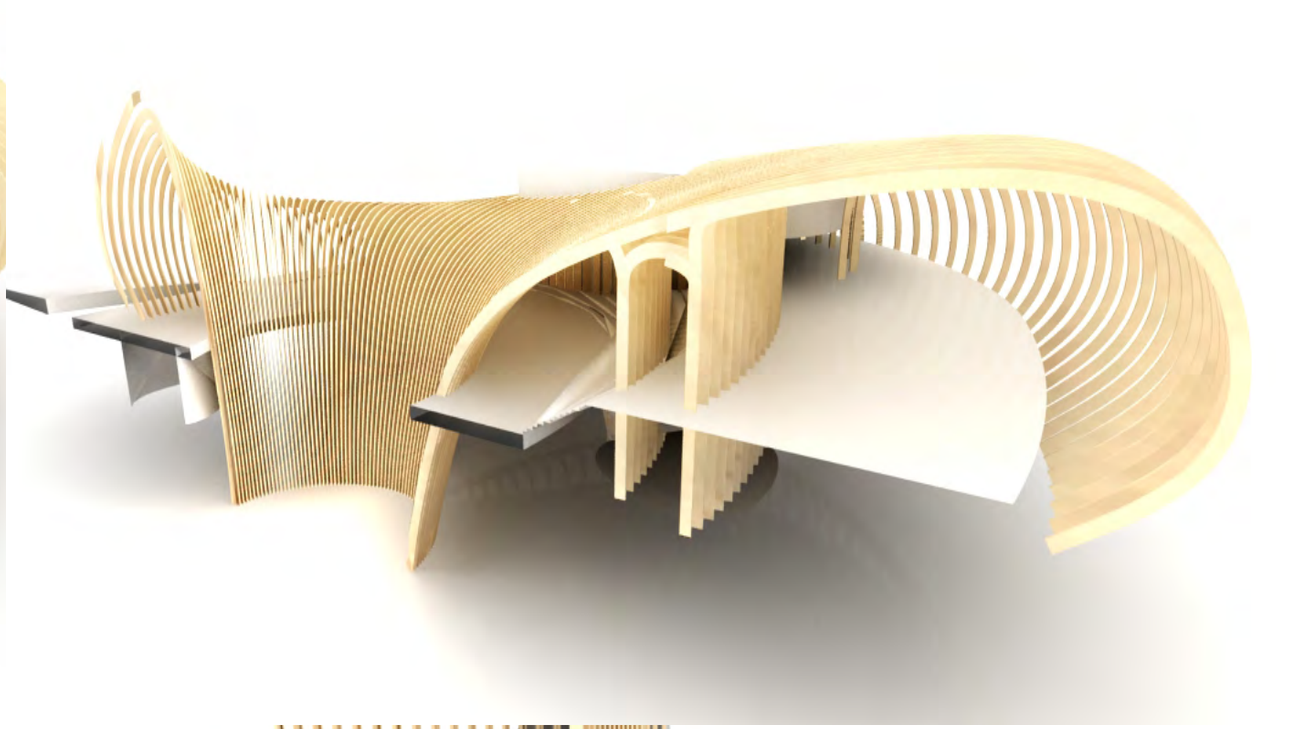
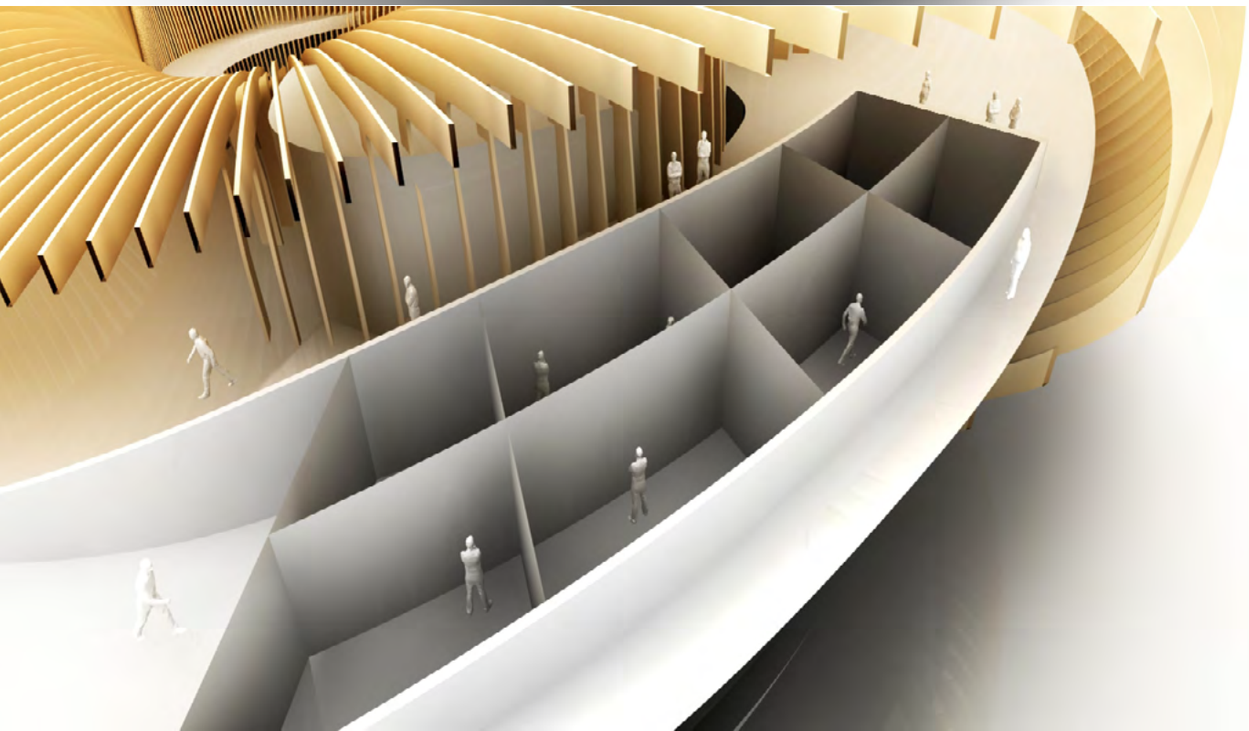
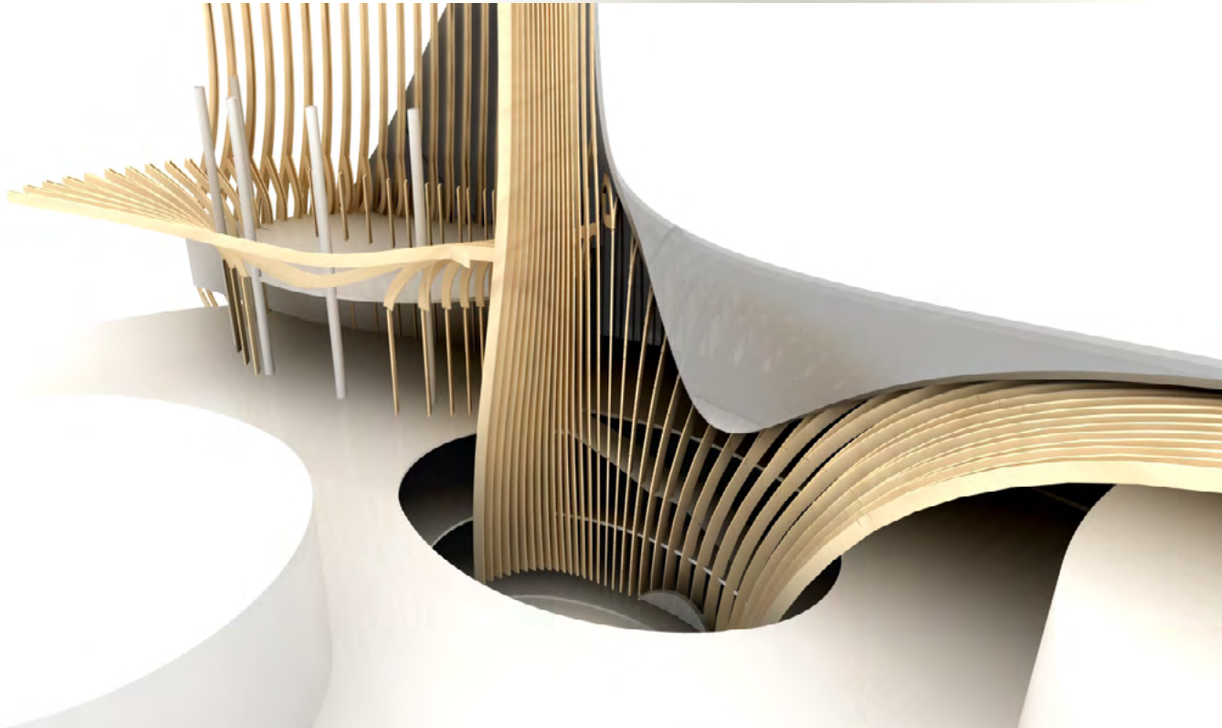
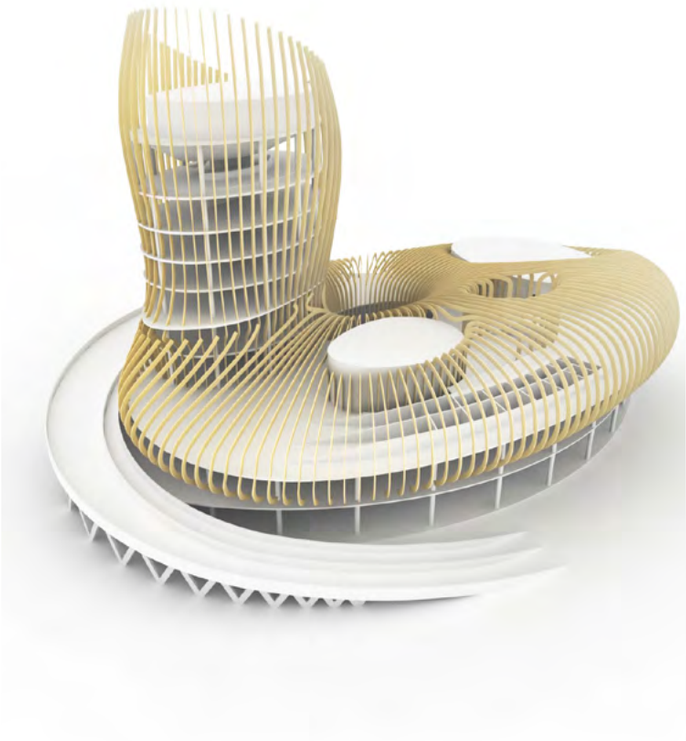
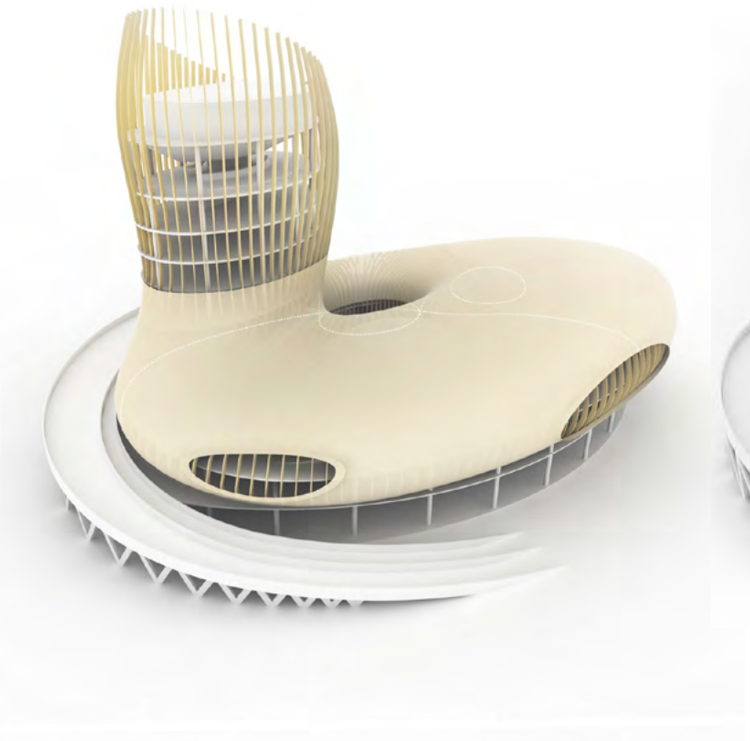

EXHIBITION LEVEL

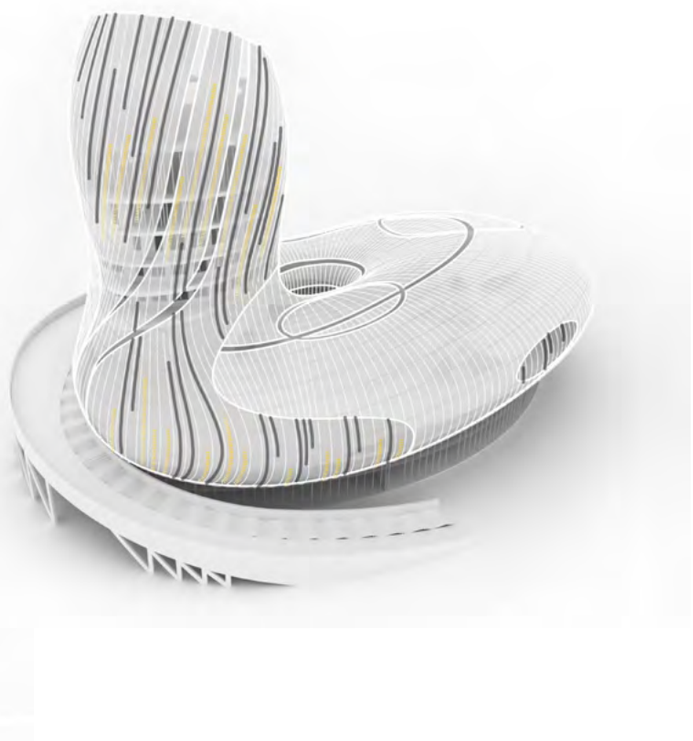


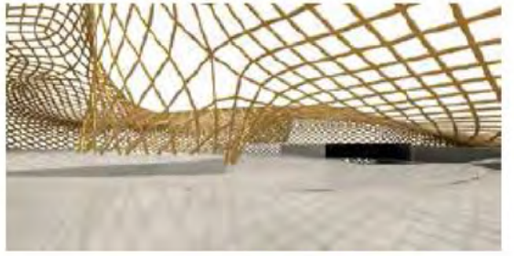


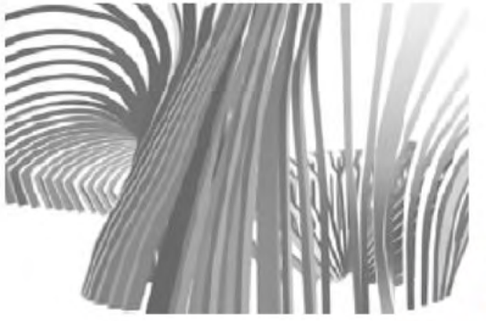


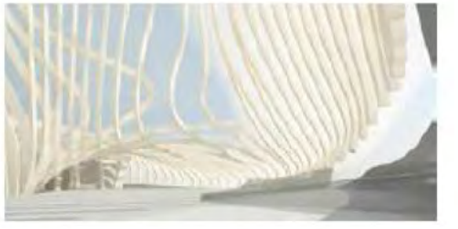


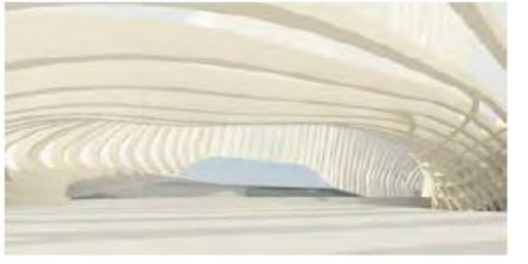


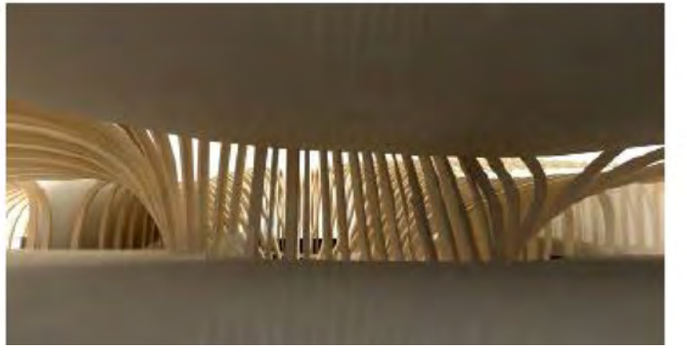






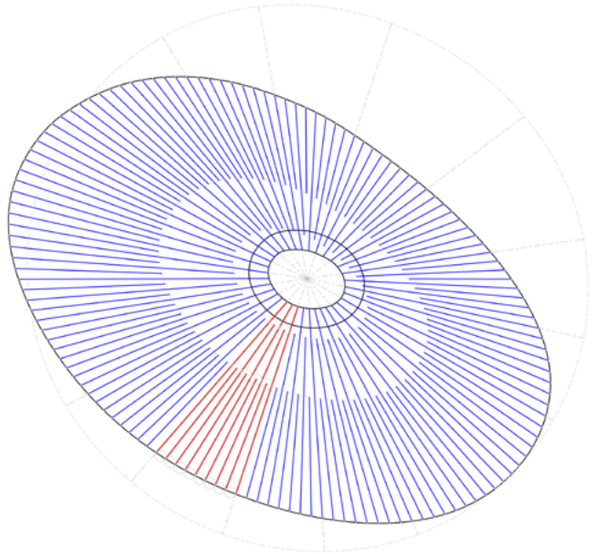






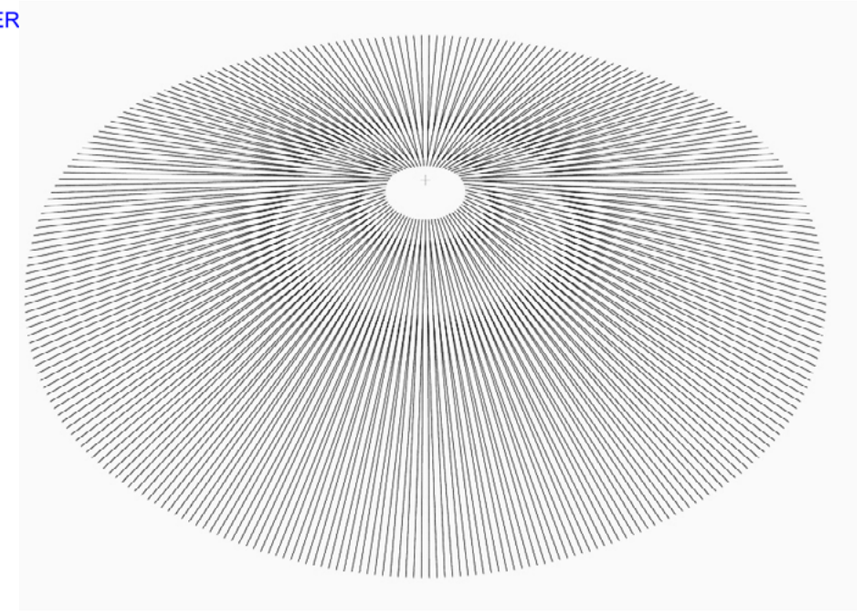
11°to 15° INCREMENTS - 2 SPLITS - ELIPSE SCA LED - 136 PANEL (EQ.) PERIMETER

HEME
A



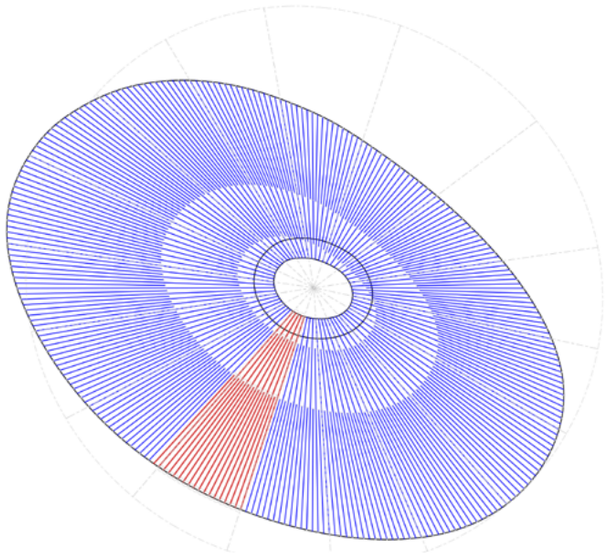
SPAN: 1.8m
S: 2

CT OR SKIN



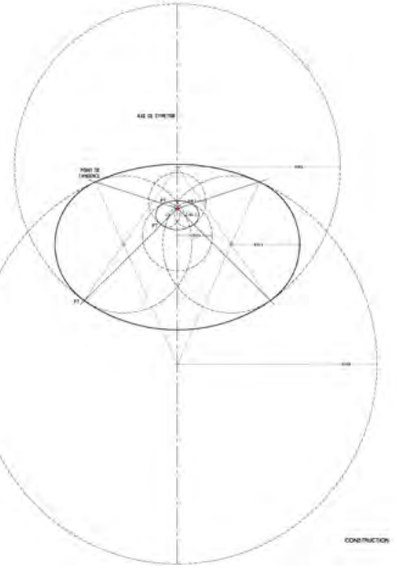
68x INCREMENTS - 2 SPLITS - ELIPSE SCALED - 272 PANEL (EQ.) PERIMETER

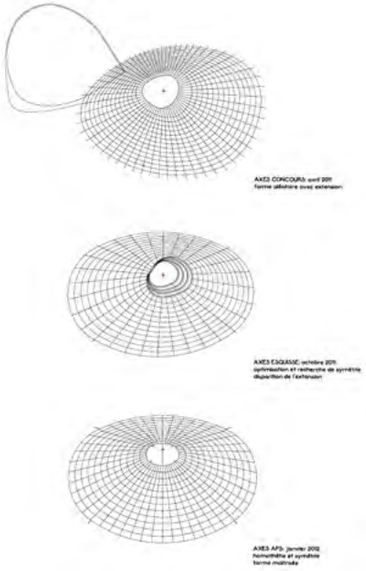
CHEME
A'



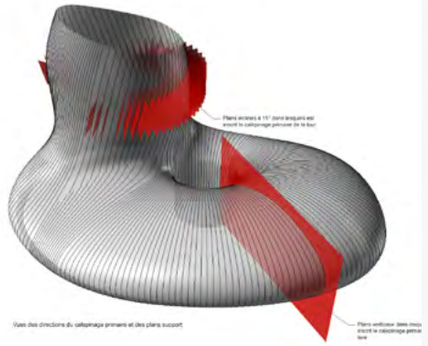
(SPAN: .9m
ITS: 2

UCT OR SKIN

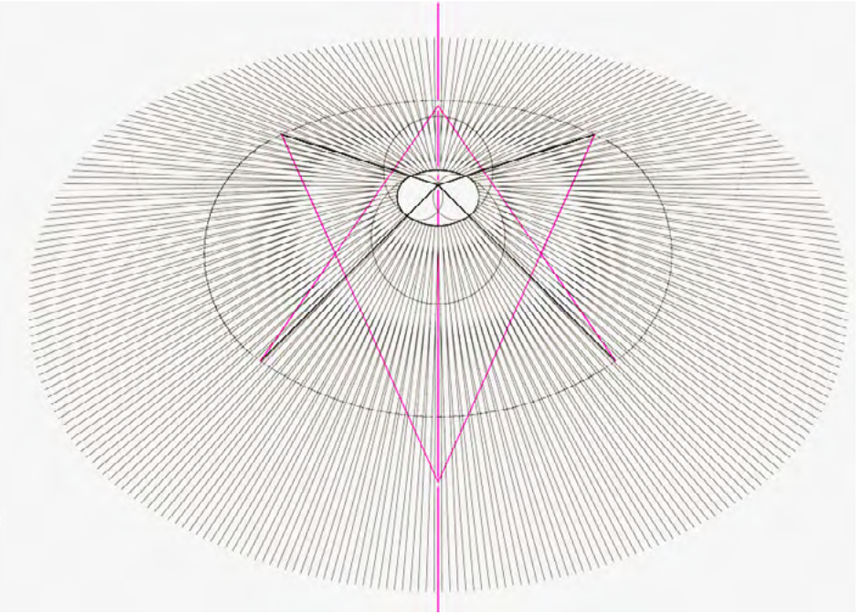


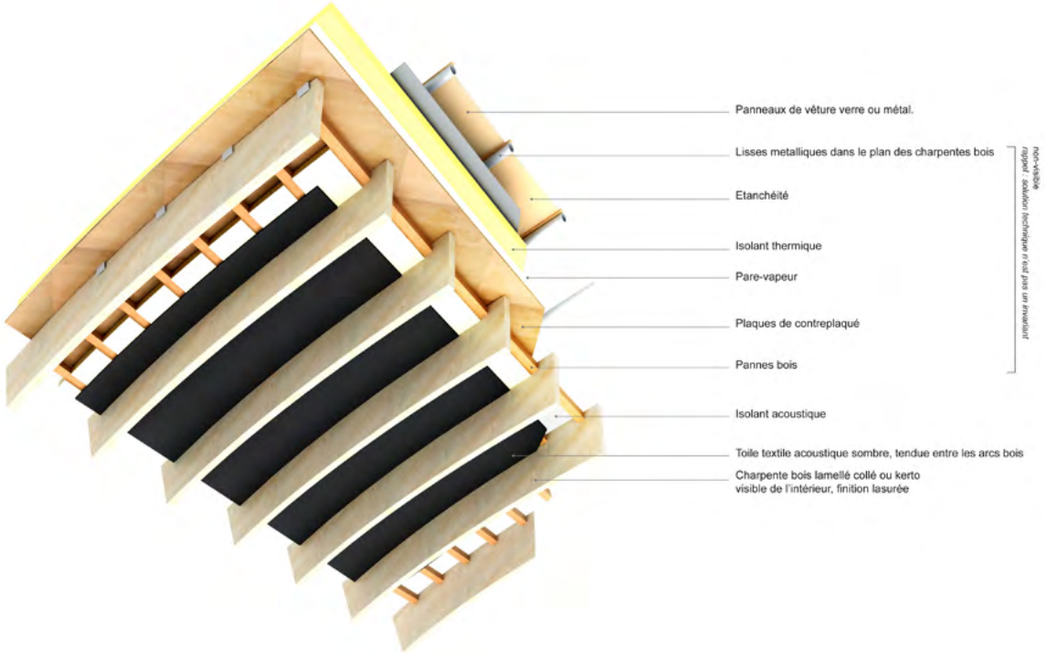


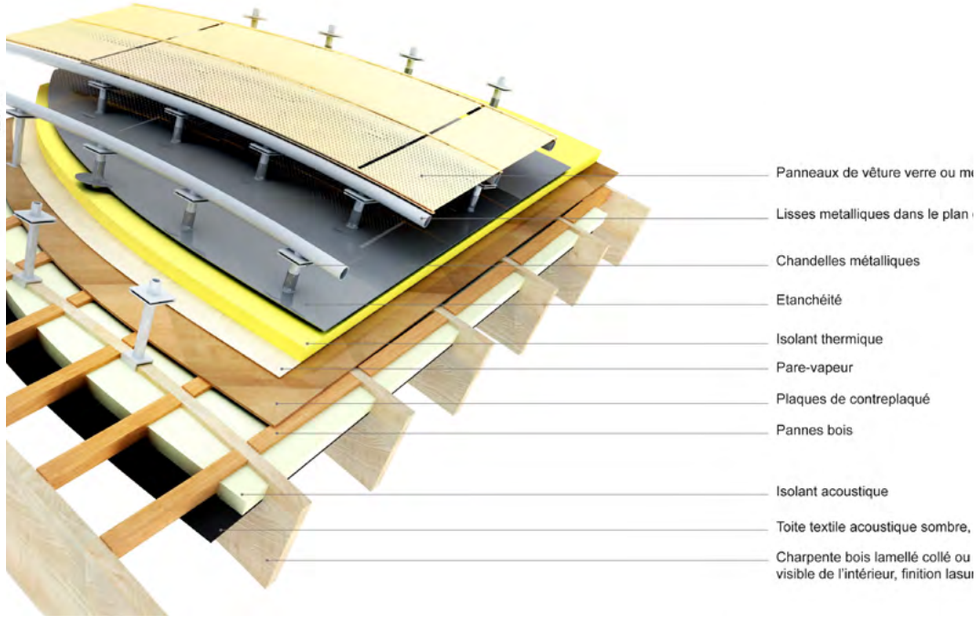
Corrélation entre les éléments de charpente bois et les directions primaires de calepinage

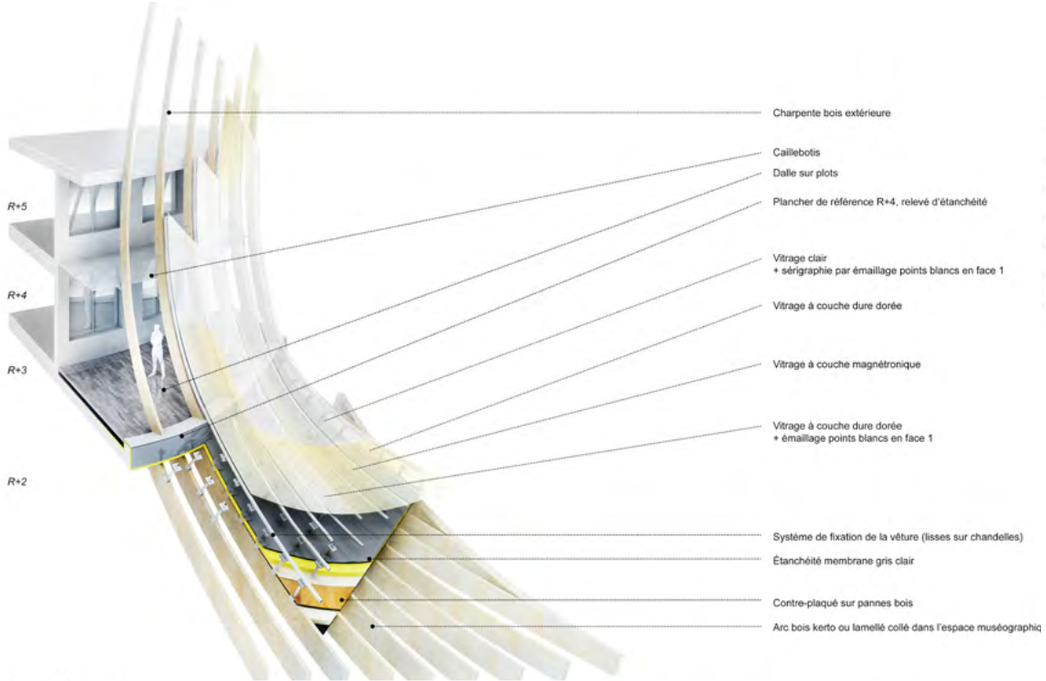


Inscription des arcs de charpente bois dans des plans

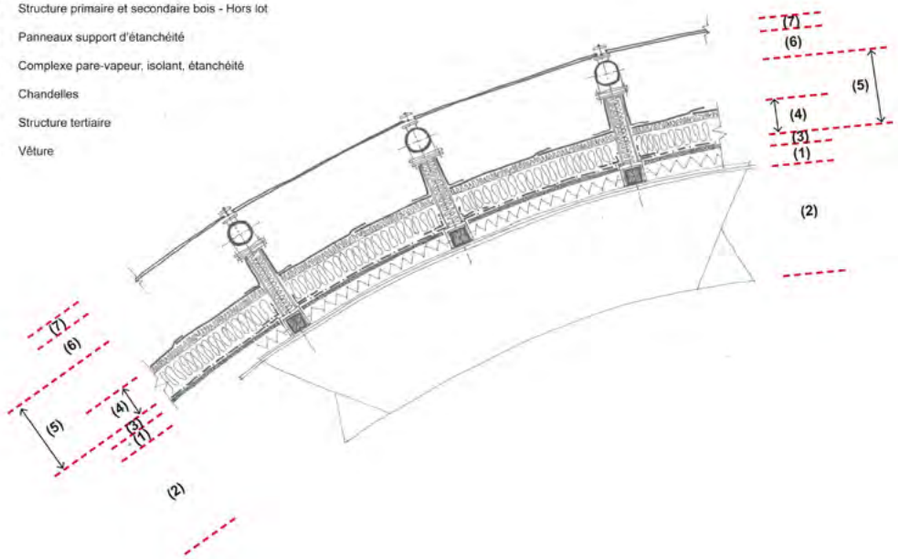








(1) Habillage intérieur - Hors lot
(2) Structure primaire et secondaire bois - Hors lot
(3) Panneaux support d'étanchéité
(4) Complexe pare-vapeur, isolant, étanchéité
(5) Chandelles
(6) Structure tertiaire
(7) Vêture



XTU

16 1234

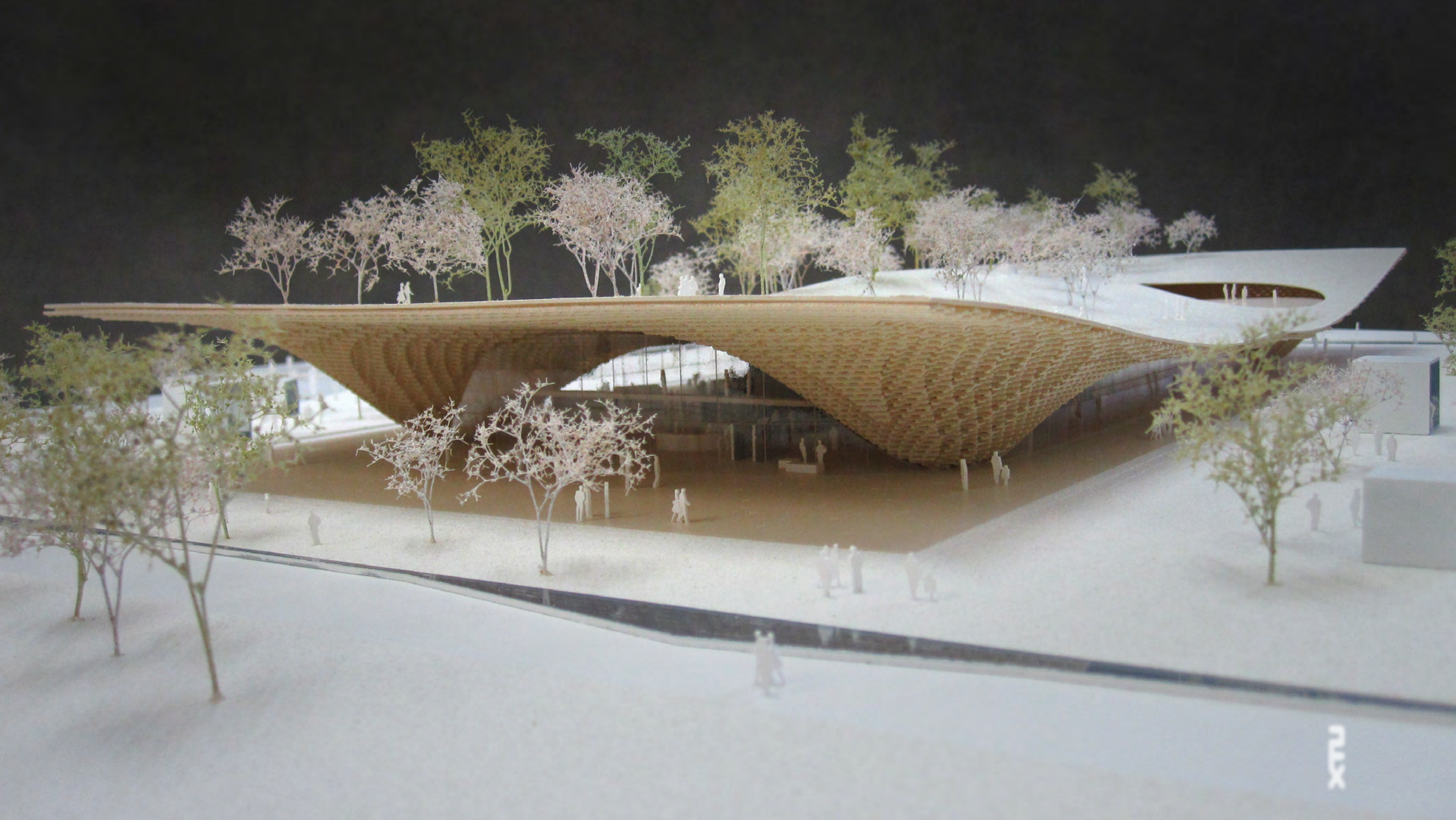
PARCOURS PERMANENT
EXPOSICIÓN PERMANENTE
GESTION TEMPORAIRE
EXPOSICIÓN TEMPORAL
ESPACE POUSSINSON
SALONS DE RÉCEPTI

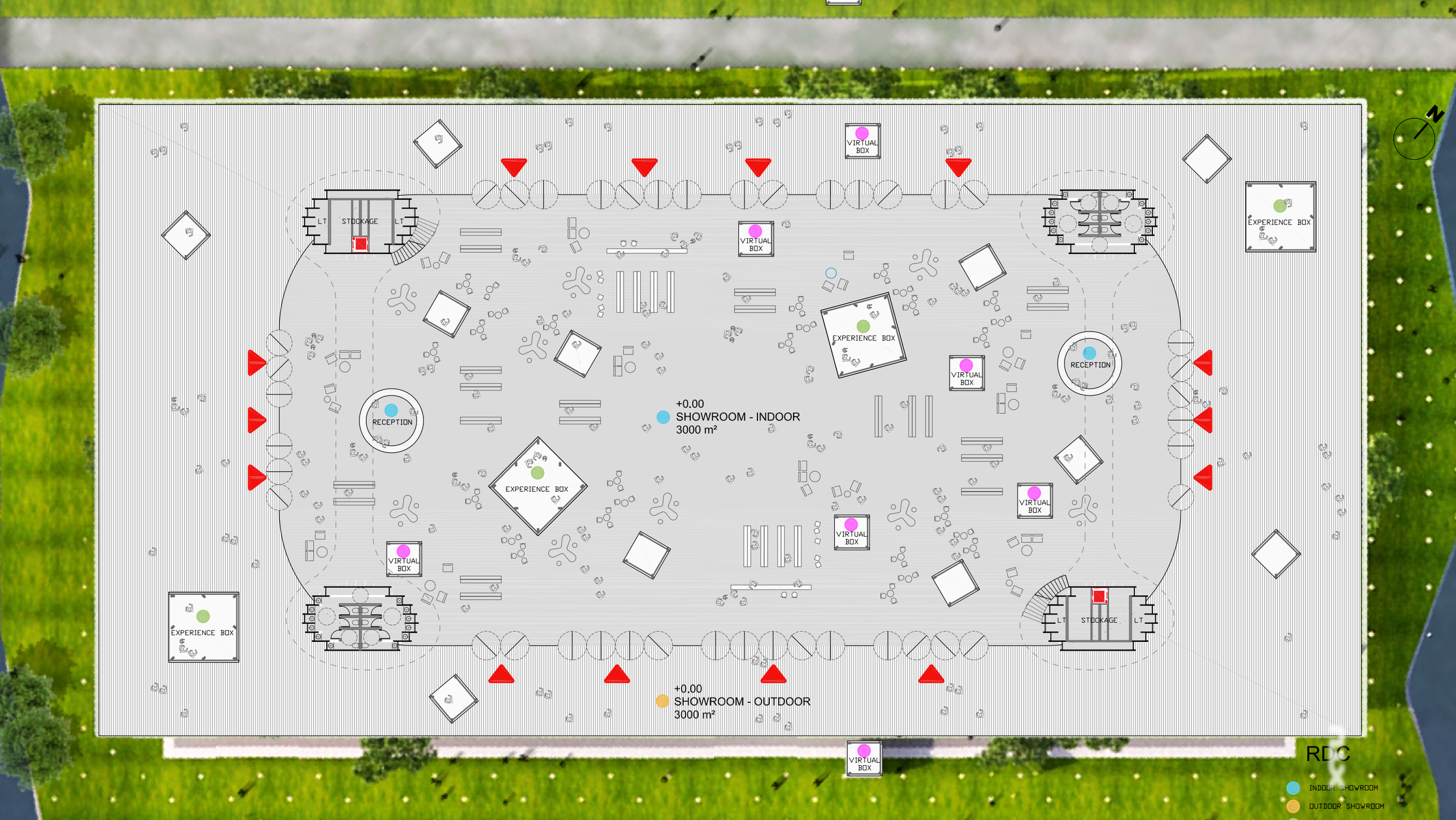
LES IMAGINAIRES
DU VIN

BORDEAUX
BORDEAUX
BURDEGIS
LA GRANDE SAGA DE BORDEAUX
THE EPIC TALE OF BORDEAUX
LA GRAN SAGA BORDELESA

CONFIDENTIAL | near Shanghai | China | ©**XTU**

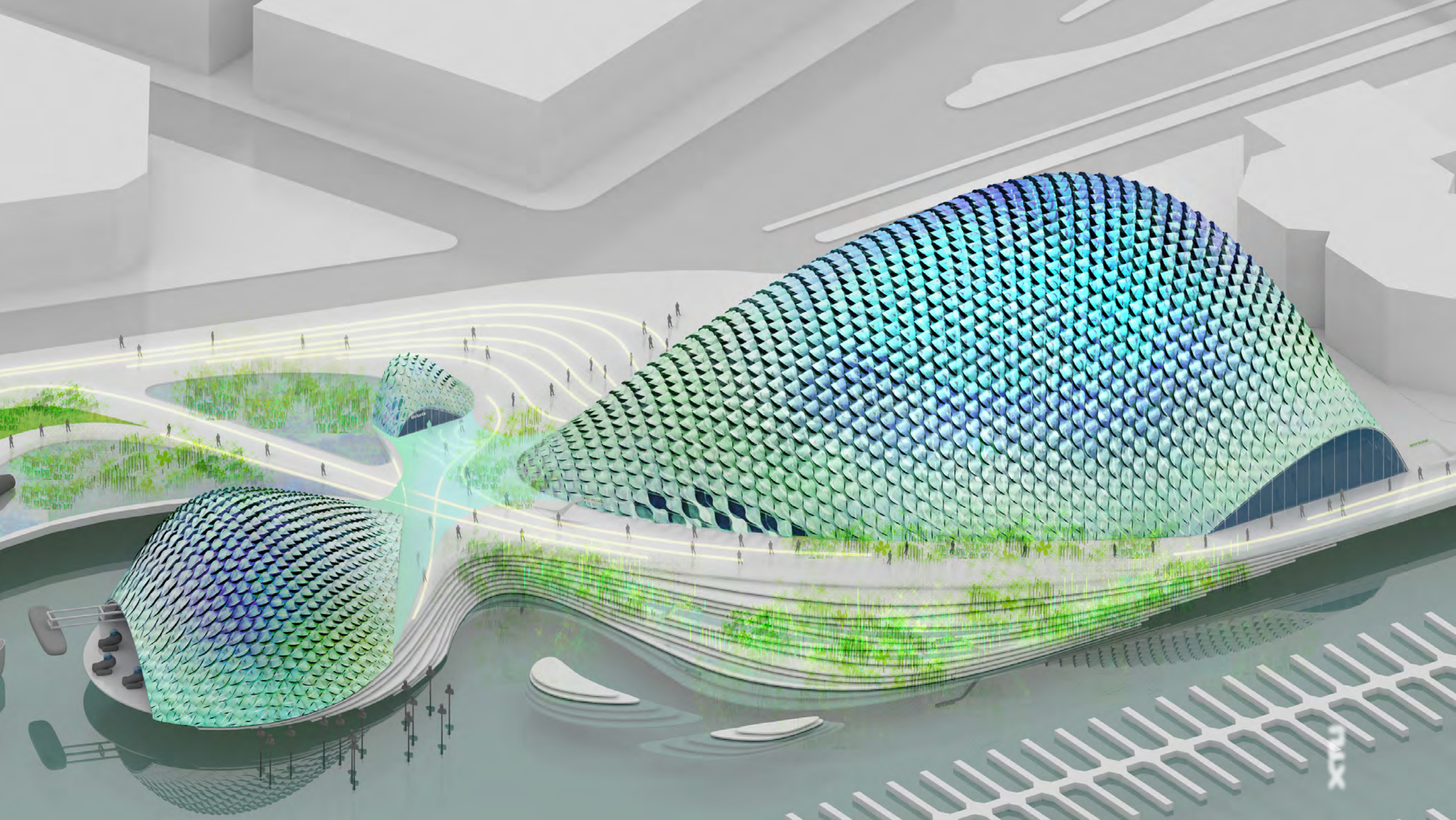
WITH THE NATURE

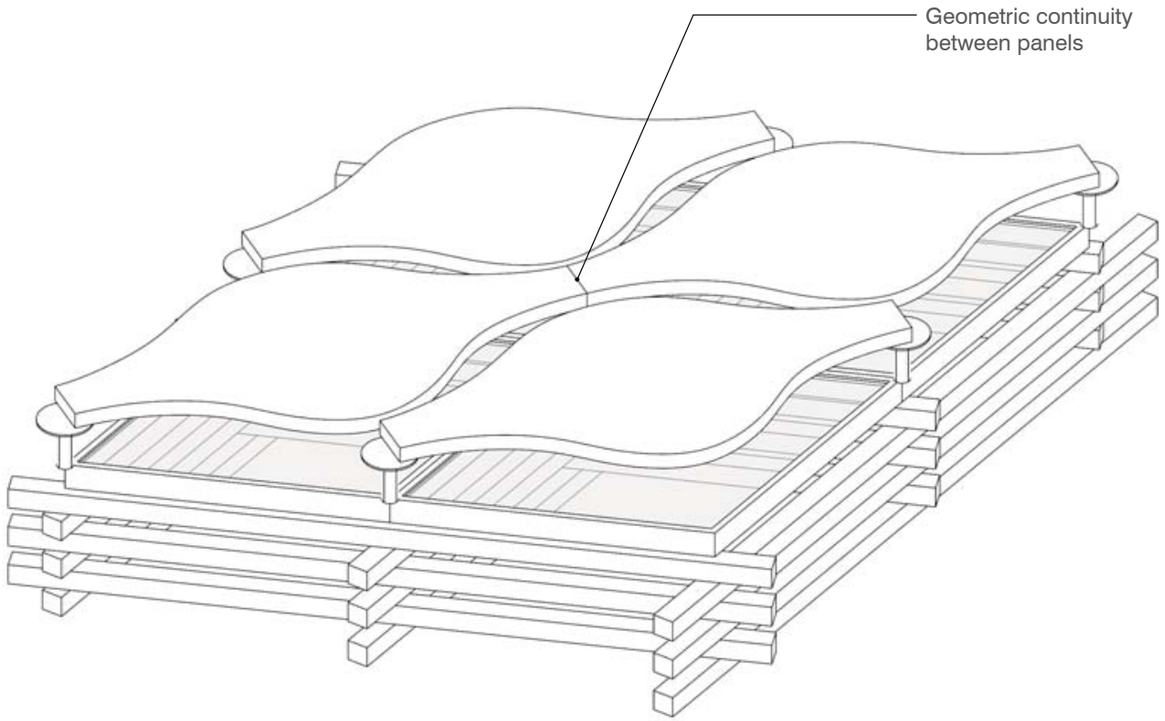

REX


VIRTUAL BOX
LT
STOCKAGE
LT
EXPERIENCE BOX
RECEPTION
+0.00
SHOWROOM - INDOOR
3000 m²
+0.00
SHOWROOM - OUTDOOR
3000 m²
N
RDC
INDOOR SHOWROOM
OUTDOOR SHOWROOM

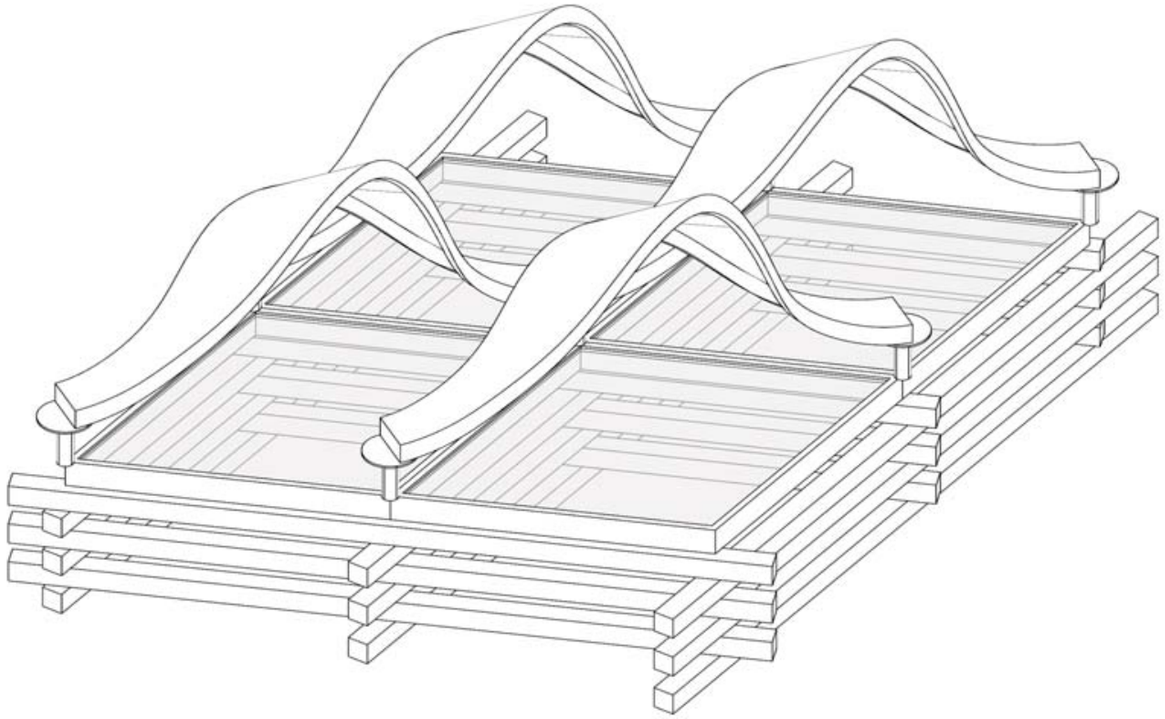
BAY ECOTARIUM SAN FRANCISCO | UNITED STATES OF AMERICA | ©**XTU**

CALIFORNIA EXCELLENCE IN SUSTAINABILITY

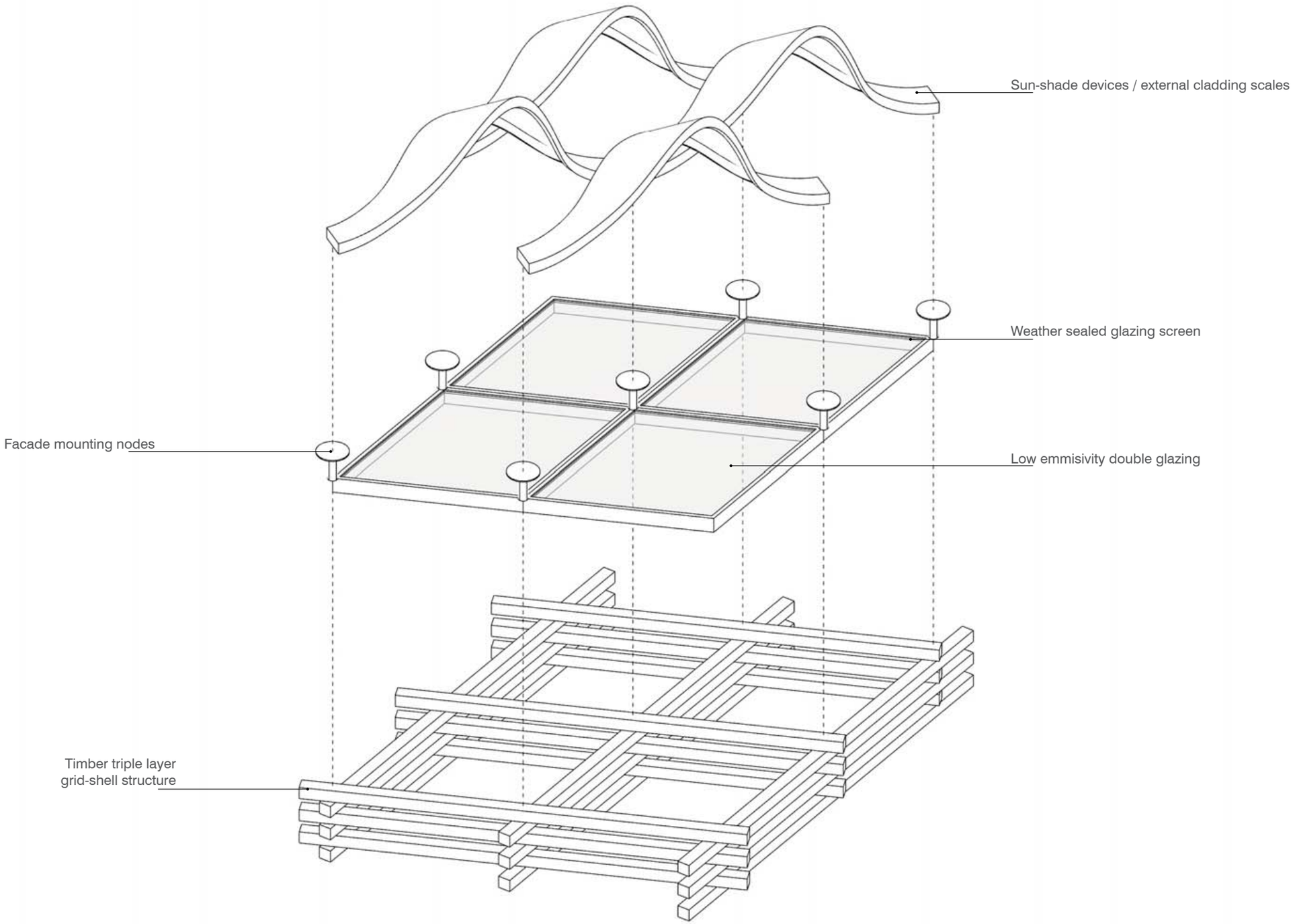


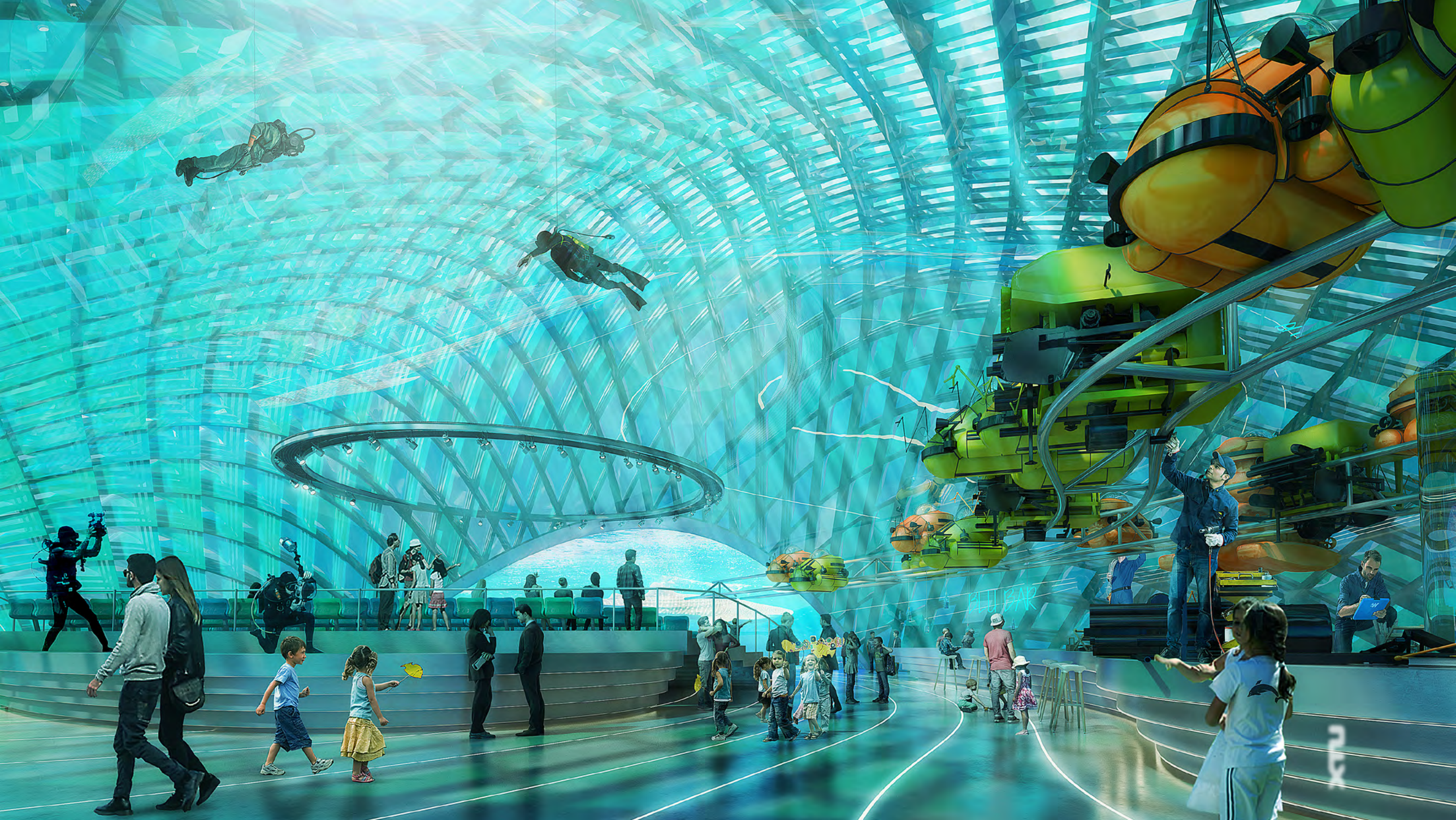


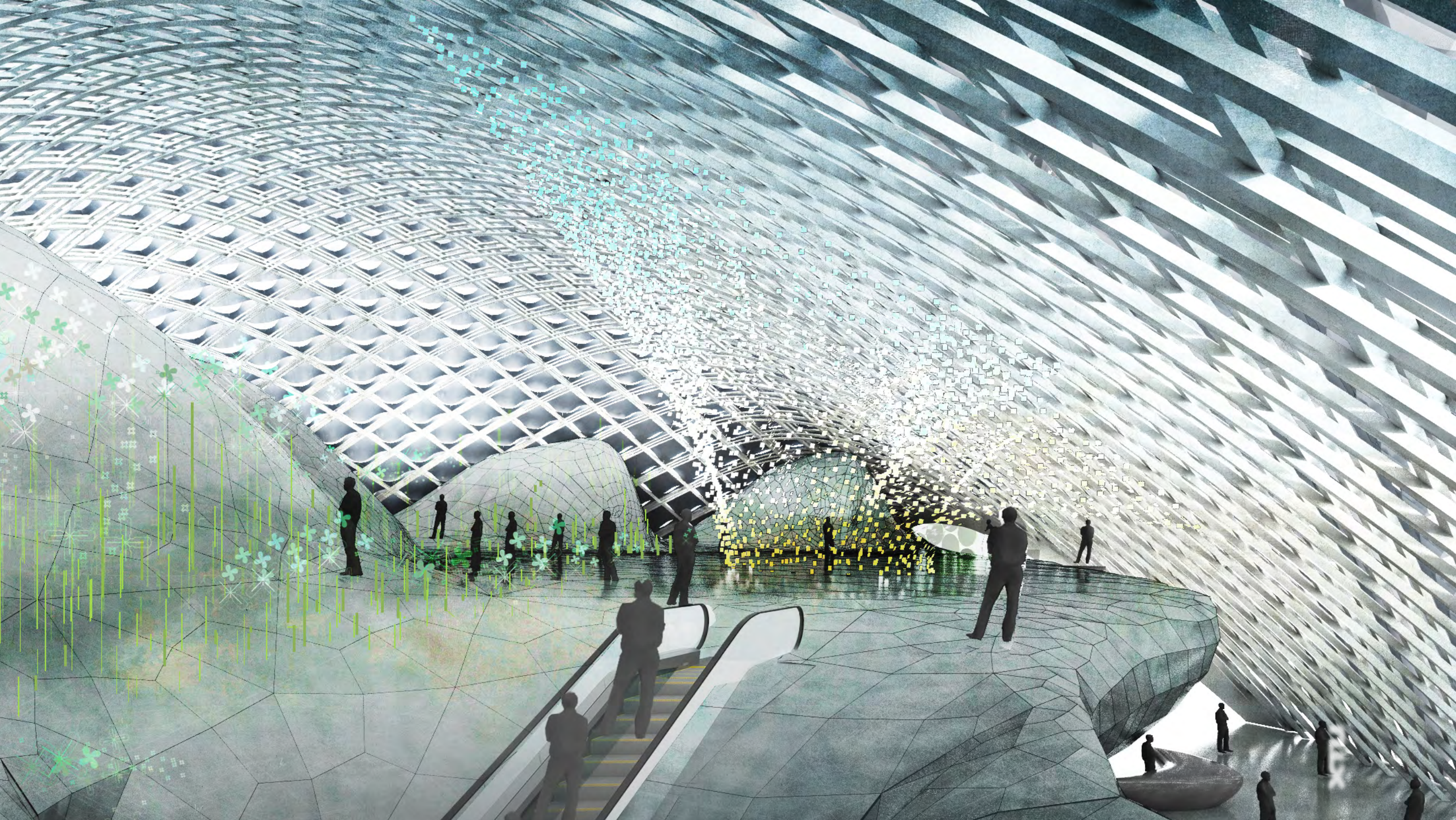
Zero curvature scenario



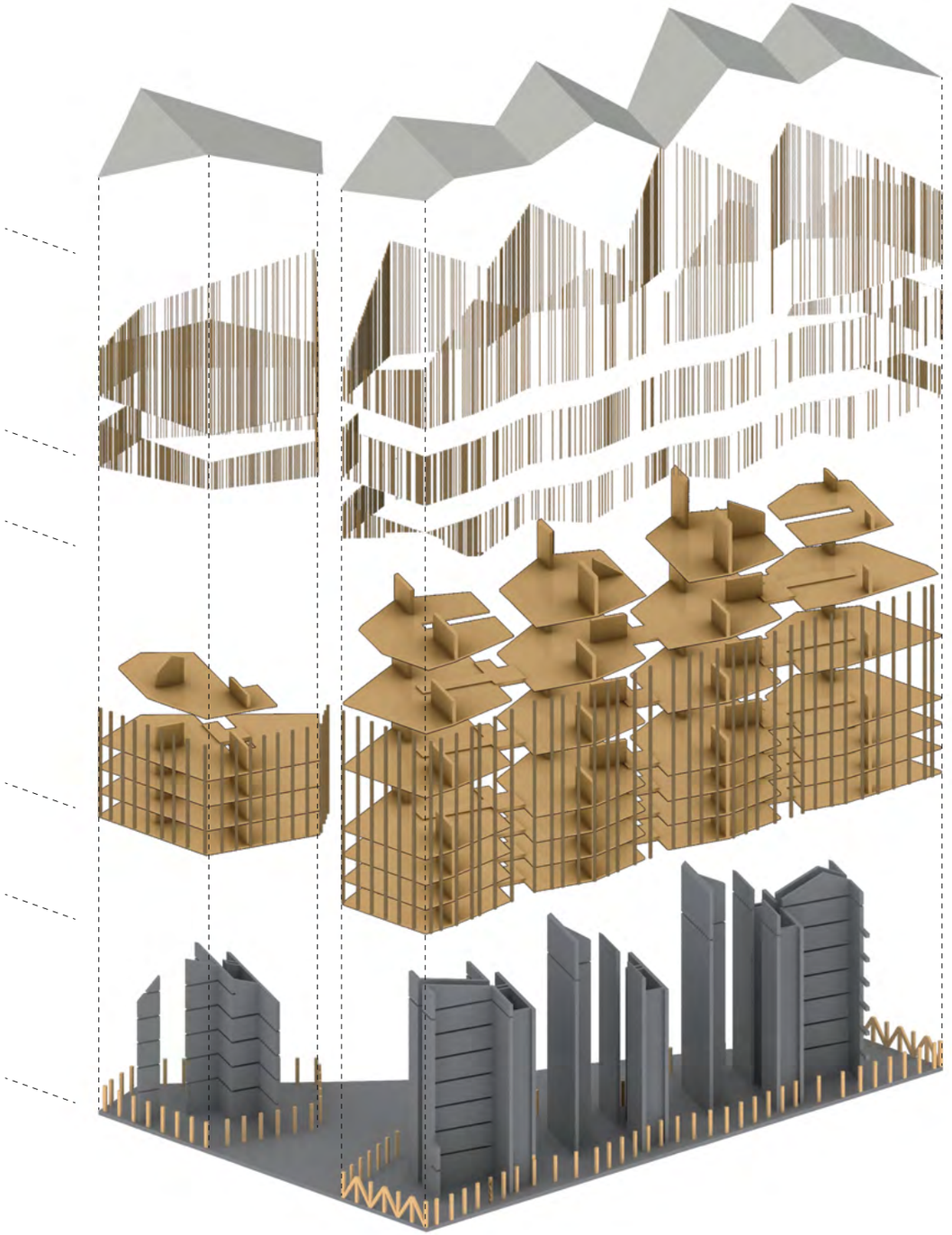
Double curvature scenario


Sun-shade devices / external cladding scales
Weather sealed glazing screen
Facade mounting nodes
Low emmisivity double glazing
Timber triple layer
grid-shell structure


BLUE BAR

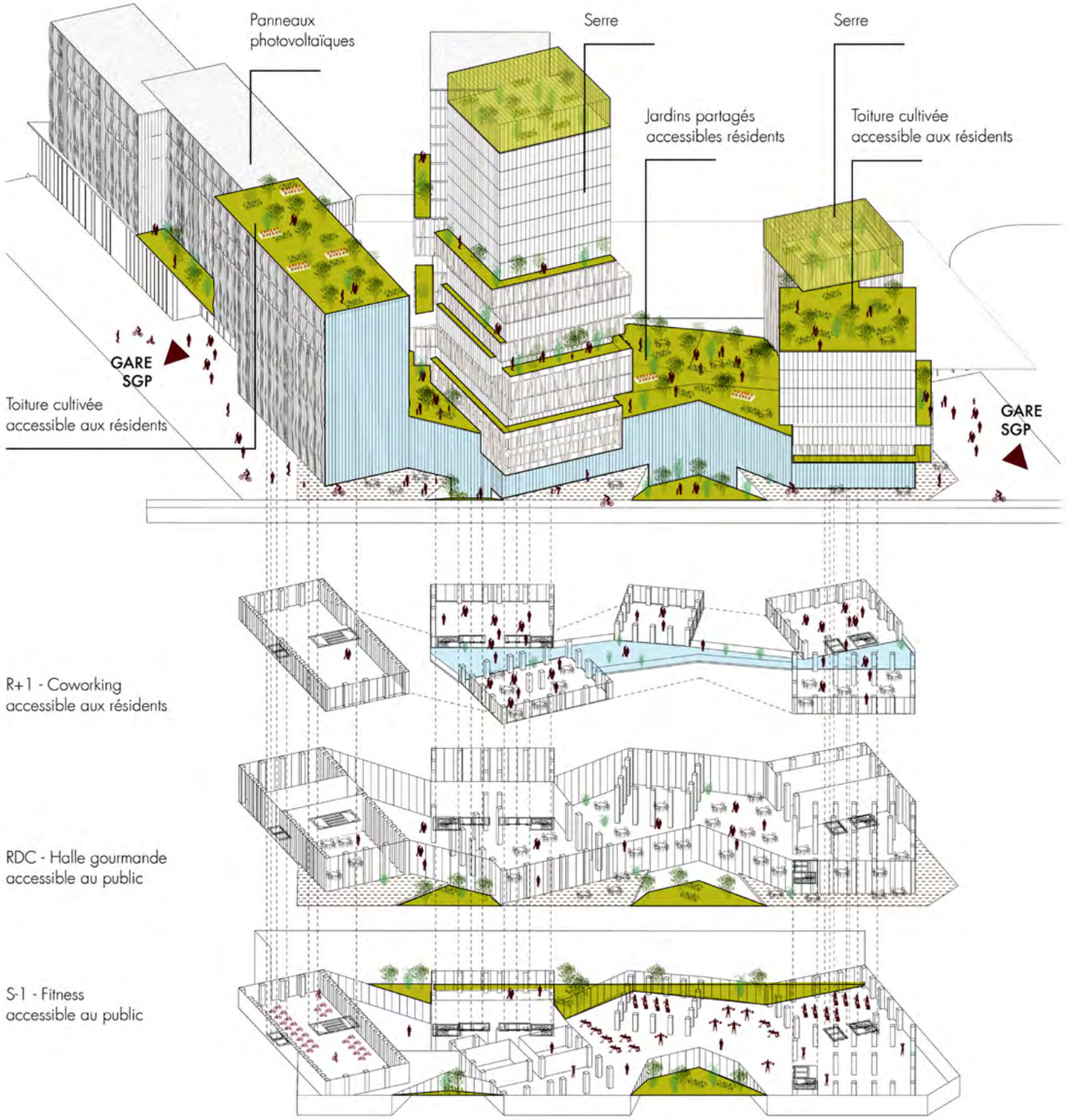


WOODY | Strasbourg | France | ©**XTU**



NUAGES | Paris | France

CONNEX | Villiers | France



SERRES EN TOITURE

VERRE SÉRIGRAPHIÉ

STRATIFICATION ET STRUCTURE APPARENTE

FAÇADE ENSAUVAGÉE

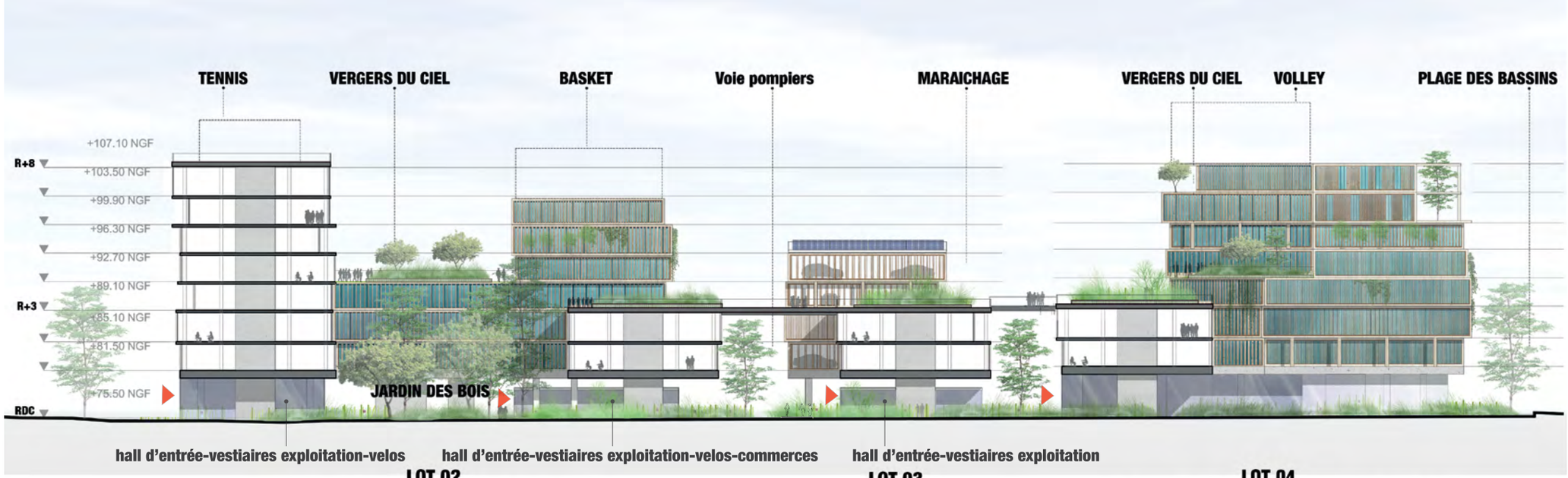
DES BALCONS ET LOGGIAS LARGEMENT VÉGÉTALISÉS

CHARPENTE BOIS INTÉRIEURE

AGRIVILLE ECO-NEIGHBORHOOD | Gonesse | France

MON MARCHE
la petite épicerie

Biobistrot
RESTAURANT



LOT 02

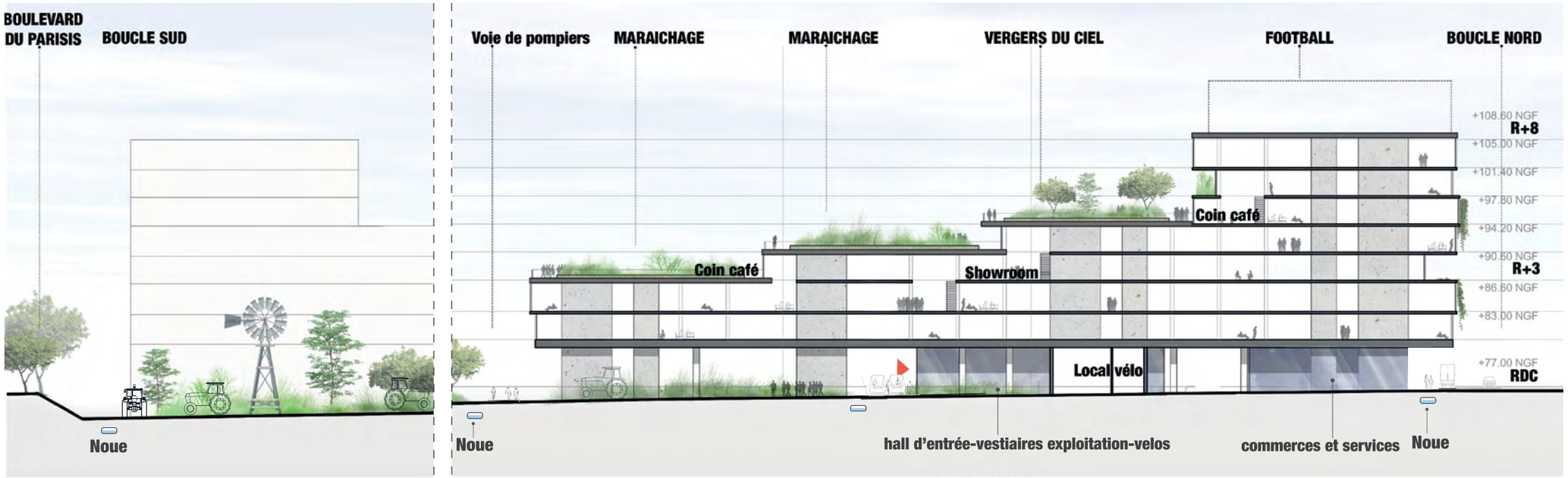
CLUSTER BOIS - LA FABRIQUE

LOT 03

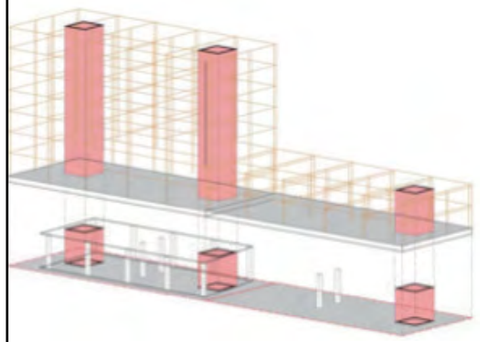
PARKING

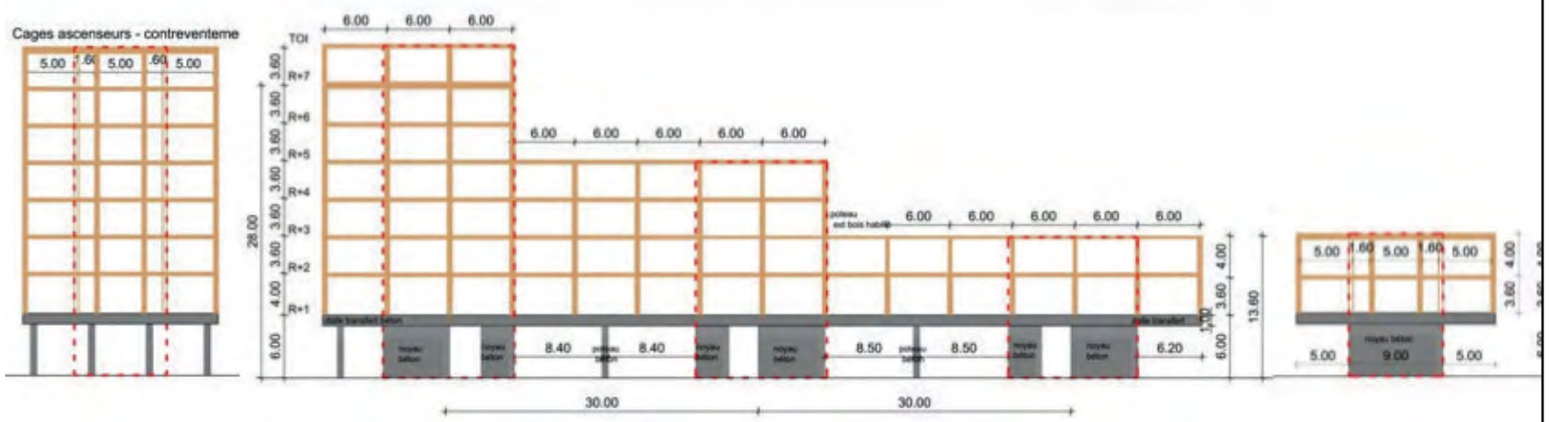
LOT 04

CLUSTER AGROALIMENTAIRE



LOT 08

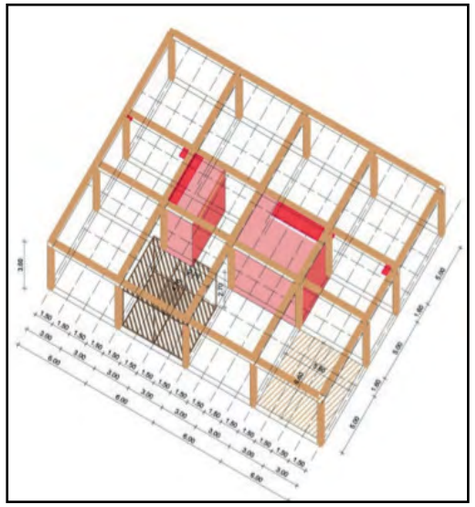


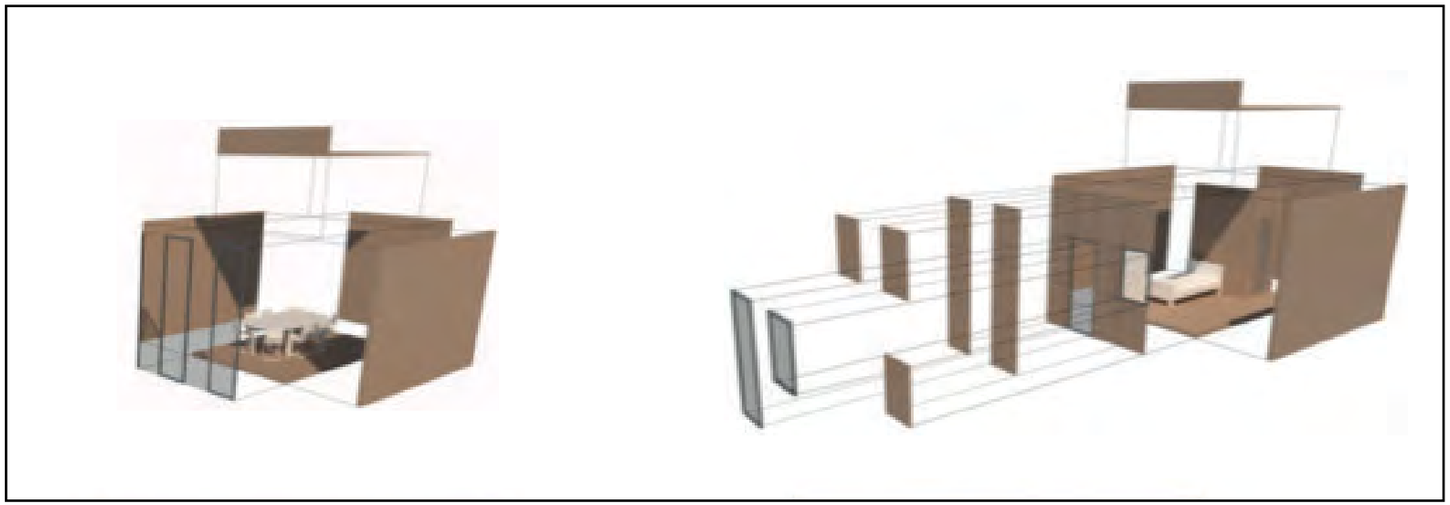


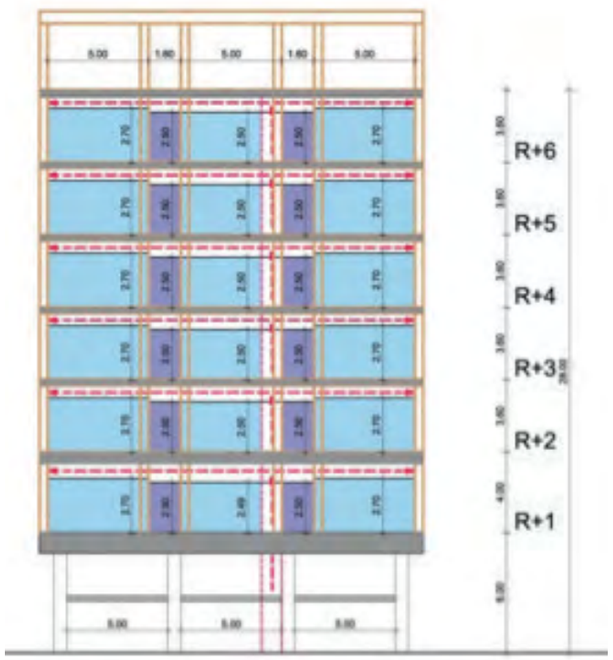
Typologie réversible.

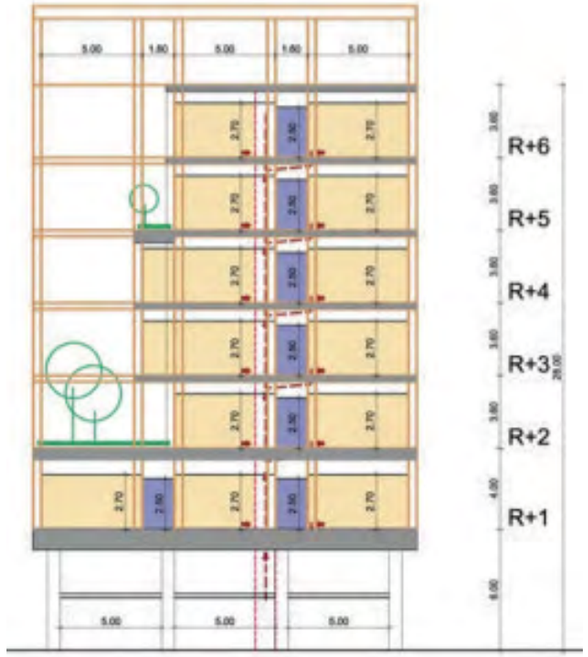
STRUCTURE POTEAUX/POUTRES

CONSTRUCTION MIXTE BETON / BOIS







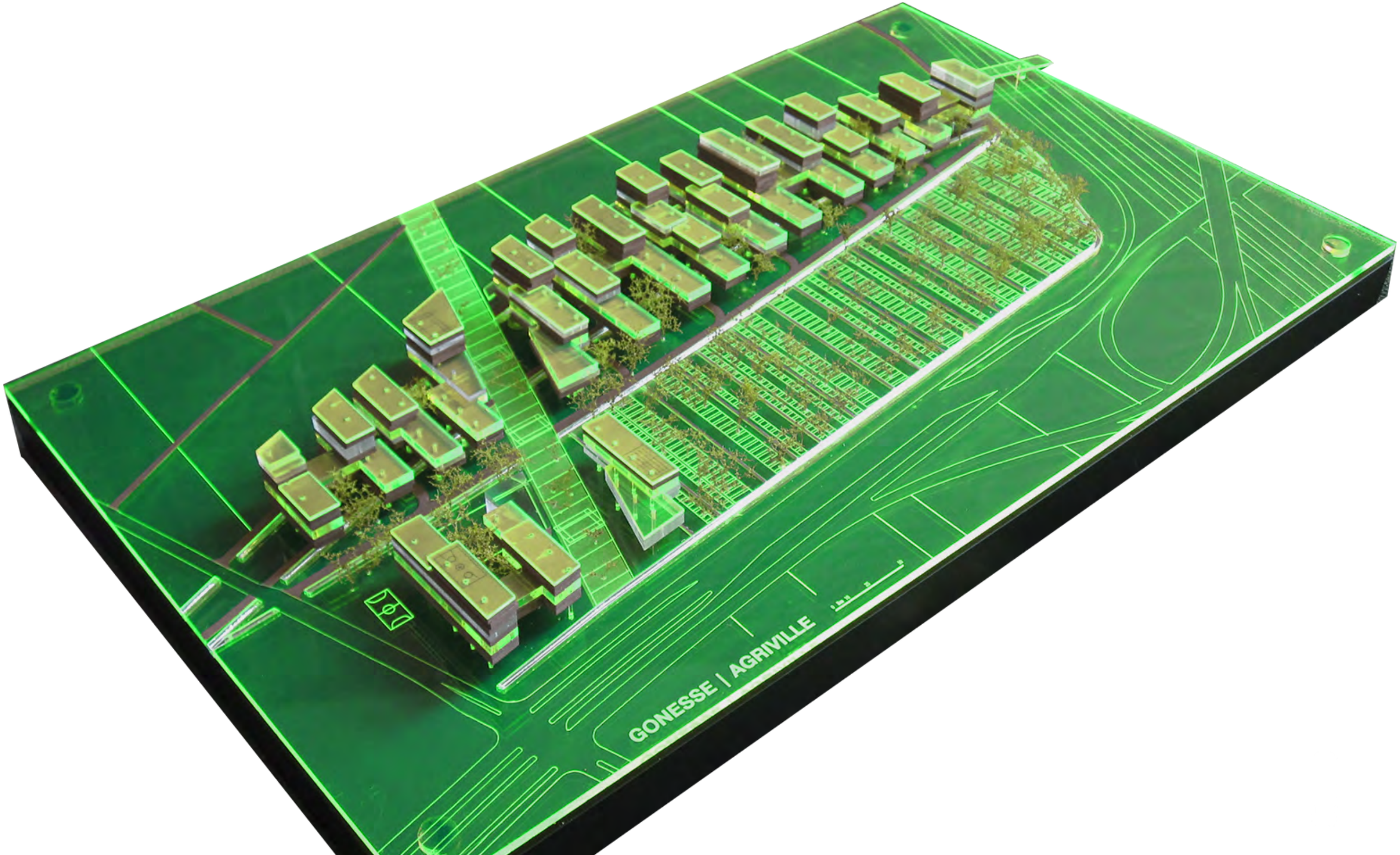


REVERSIBILITE

SECTION

HÔTEL

PLAN


GONESSE | AGRIVILLE

MARAICHAGE

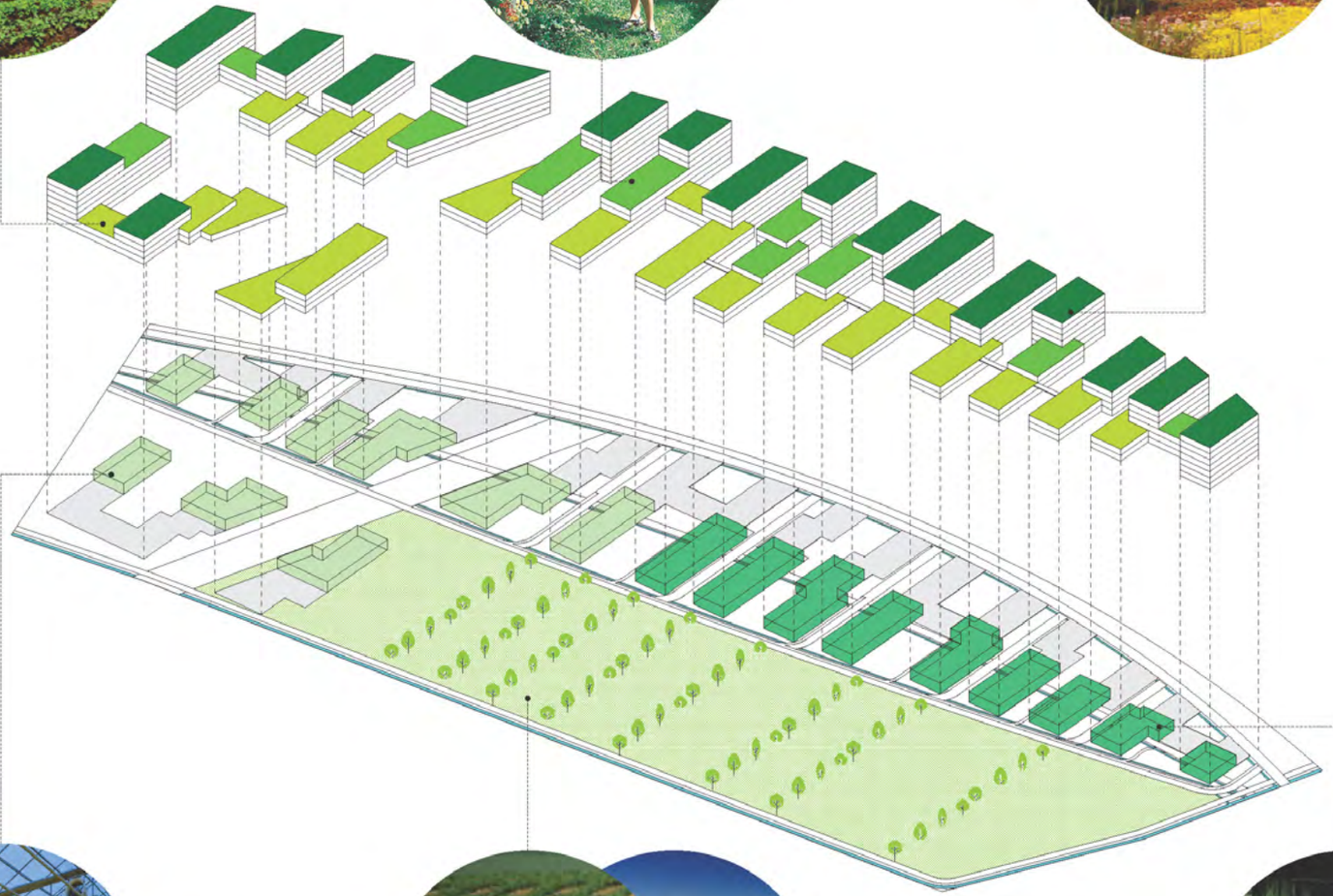
- SERVICE / ALIMENTAIRE
- SERVICE / RÉGULATION ET ABSORBTION DES PRÉCIPITATIONS

VERGER DU CIEL

- SERVICE / ALIMENTAIRE
- SERVICE / RÉGULATION ET ABSORBTION DES PRÉCIPITATIONS

TOITURE VÉGÉTALISÉE

- SERVICE / RÉDUCTION DE L'EFFET DE CHALEUR URBAIN
- SERVICE / RÉGULATION ET ABSORBTION DES PRÉCIPITATIONS



CULTURE EN ENVIRONNEMENT CONTROLÉ

- SERVICE / ALIMENTAIRE
- SERVICE / COMMUNICATION

GRANDES CULTURES ET MARAICHAGE

FORMATION A L'AGROFORESTERIE
- SERVICE / ALIMENTAIRE
- SERVICE / PRODUCTION ÉNERGIE
- SERVICE / STABILISATION DES PENTES
- SERVICE / CONSERVATION DE LA BIODIVERSITÉ CULTIVÉE
- SERVICE / RÉGULATION ET ABSORBTION DES PRÉCIPITATIONS

CULTURE PLANTES D'OMBRE

- SERVICE / ALIMENTAIRE
- SERVICE / RÉGULATION ET ABSORBTION DES PRÉCIPITATIONS

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