

MIQUEL  
LACASTA  
CODORNÍU

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PhD ARCHITECT - URBAN PLANNER

**30 YEARS**  
P R O J E C T S



## ABSTRACT

Architect with 30 years' experience in the design and execution of large-scale urban and architectural projects in Europe, with a focus on sustainability and innovation. Co-founder of Archikubik, he has led more than 120 international projects, obtaining recognition such as the Spanish Town Planning Award, the German Design Award and the FAD International Award.

With a solid academic career spanning 25 years, he has trained new generations of architects at the International University of Catalonia and has participated in conferences and global publications. He is also the editor of the blog [axonometrica.blog](https://axonometrica.blog), where he has published more than 300 articles on architectural theory.

Passionate about research and the evolution of cities, he combines his experience in leading multidisciplinary teams, developing innovative urban strategies and effective communication to add value to each project.

Specialities: Architectural and urban design | International project management | Sustainability | Energy efficiency | Teaching and research | Conferences



**Co-founder and partner of Archikubik, Barcelona, Spain | January 1995 – March 2025**

Leads the integral development of projects, from design and conceptualisation to the control of the execution of the works.

Coordinates the design team with engineers and environmental experts, as well as with construction companies in the construction phase.

Implements innovative solutions in urban design and highly efficient buildings.

Manages relationships with clients, authorities and international collaborators.

He has led more than 120 projects and competitions in different countries, especially in France and Spain.

He has given more than 45 lectures on 4 continents and his work has been exhibited in multiple exhibitions, including the Venice Biennale.

His career has been widely published in the press and specialised magazines and he has participated in different television and radio programmes.

**Co-founder and partner of @Kubik, Barcelona, Spain | November 1994 - March 2025**

In 1994, @Kubik put into practice the vision of how the development of the internet was going to change workspaces and, by extension, transform the economy and society. A multitude of companies that understood this transformation emerged from @kubik, such as atrapalo.com, Ideas for Change, En.Red.Ando and the award-winning director Claudia Llosa. @Kubik is recognised as a pioneering experience based on the economy of scale, an ecosystemic vision and a synergy that multiplies results.

It was the first co-working space, even before the concept appeared in 2005 in San Francisco. It structures a cutting-edge methodology for flexible spaces.

**Project manager at Brullet De Luna Associats, Barcelona, Spain | 1989 – 1995**

Developed all phases of architectural project design in Spain and Germany, as well as the content and staging of exhibitions and content for the firm's publications.

Notable projects: Extension and refurbishment of the Hospital del Mar (Olympic Hospital in Barcelona 1992), the Hédwishoe hospital in Berlin, the refurbishment of Barcelona City Hall (original building, 'nou' building and 'novisim' building), the Boqueria Market project and the Vaixell Burriac school in Vilassar de Dalt, among others.

**Academic Career****Full Professor at the School of Architecture of the International University of Catalonia, Barcelona, Spain | 1999 -2024**

Since its foundation, he has taught subjects in Drawing, Form Analysis and Architectural Projects. For 15 years he has led the final degree project with a teaching methodology based on innovation and the publication of results. Together with Juan Trias de Bes and the group of students, they were awarded the Research Prize at the 13th BEAU, the Spanish Architecture and Urban Planning Biennial.

Special Doctoral Thesis Award, School of Architecture UIC 2012 with the thesis: 'Geometry and Complexity, the emergence of a paradigm between 1960 and 1973'.

Doctoral thesis tribunal.

Mentored more than 500 students, including winners of international competitions and awards. Leads international architectural project workshops.

Accredited as Doctor Lector by the AQU, Agency for the Quality of the University System of Catalonia, 2013

**Editor**

He has written Paseos por el Voladizo and co-authored 9 other books

Editor since 2012 of the blog on the theory of architecture axonometrica.blog, ISSN 2603-6401, which has had 386,000 visits and 302 posts published.

The list of contributors includes Iñaki Ábalos, Manuel Gausa, David García-Asenjo, Pedro Torrijos and Josep Ferrando, among others.

He has written and published 277 articles of his own on the blog.



## AWARDS

- FCARM 2024 Medal, Federation of Colleges of Architects of the Republic of Mexico, Mérida, Mexico
- Selected at the 16th Spanish Architecture and Urban Planning Biennial 2023, CSCAE Rouget de Lisle Eco-neighbourhood, Vitry-sur Seine, France
- 2021 Spanish Urban Planning Award, CSCAE Agrociedad Gagarine Truillot, Ivry-sur Seine, France
- Finalist in the 2021 EPL trophies, 'City of Tomorrow - Smart City' category, ZAC Rouget-de-Lisle, Vitry-sur-Seine, France
- Winner of Réinventer Paris 3, 2021, Scène des Loges, Paris XV, France
- Quartiers Fertiles 2021 Award, ANRU, Agrociedad Gagarine Truillot, Ivry-sur-Seine, France
- Awarded the EcoQuartier 2020 Label - stage 2, Gagarine Agrocité, Ivry-sur-Seine, France
- 2019 European Award for Business Management and Innovation, awarded by the European Association of Economy and Competitiveness (Aedeec), Madrid, Spain
- Shortlisted for the 2018 Catalunya Construcció Awards, in the Heritage Rehabilitation category, King Martí Warehouse, Barcelona, Spain
- Shortlisted for the 2018 FAD International Awards, Le Sud au Nord, Evry, France
- German Design Award 2018 in the Excellent Communications Design Urban Space and Infrastructure category, Gare Saint Roch car park, Montpellier, France
- Best Projet 2017 award by Archilovers. Rei Martí Water Tank, Barcelona, Spain
- Awarded the EcoQuartier 2017 Label - stage 2. ZAC Rouget de Lisle, Vitry-sur-Seine, France
- Selected for the 2017 FAD Awards in the City and Landscape category. Rei Martí Water Tank, Barcelona, Spain
- Nominated for the 15th European Union Prize for Contemporary Architecture Mies van der Rohe Award 2017, Gare Saint Roch car park, Montpellier, France
- Research Award at the 13th BEAU, Spanish Architecture and Urban Planning Biennial 2016
- Selected Spanish Pavilion at the 2016 Venice Biennale. Rei Martí Water Tank, Barcelona, Spain
- Selected Catalan Pavilion at the 2016 Venice Biennale. Car park at Gare Saint Roch, Montpellier, France
- Mention at the 14th ASCER Ceramics Awards 2015. Car park at Gare Saint Roch, Montpellier, France
- Selected for the Hispalyt 2015 Ceramics Awards. Car park at Gare Saint Roch, Montpellier, France
- FAD 2015 Award in the International category. 253 homes in Ivry-sur-Seine, France
- Futurs Possibles 2014 Award. ZAC Rouget de Lisle, Vitry-sur-Seine, France
- Selected for the FAD Awards in the Ephemeral Architecture category, Diagonal Verda DHUB, 2012
- A+ Award for Architecture of Educational Buildings, 2010. Sunion School, Barcelona, Spain
- Corian Design Awards, 2006
- Selected for the FAD Awards 2001 in the Ephemeral Spaces category. Met 2.0, Barcelona, Spain
- Selected for the FAD Awards 2001 in the Interior Design category. Flex-house. Barcelona, Spain

## **Education**

PhD in Architecture, International University of Catalonia, 2011

M.Arch Master in Biodigital Architecture, School of Architecture, International University of Catalonia, 2009

Architect ETSAB – UPC, Polytechnic University of Catalonia, Architectural Projects, 1994

## **Skills and Competencies**

Technical:

Architectural and Urban Design, International Project Management, Sustainability, Energy Efficiency. Indesign, Photoshop, Autocad

Soft:

Leadership, Public Speaking, Effective Communication, Mentoring, Complex Problem Solving, Teamwork, Strategic Analysis, Conference Speaker

## **Languages:**

Spanish (native), English (advanced), French (advanced), Catalan (native)

FROM URBAN PLANNING TO THE BLOCK

# AGROCITÉ GAGARINE TRUILLOT

Spanish Urban Planning Award 2021 - Quartiers Fertiles Award 2021

Zac of 12 ha with 44,000m<sup>2</sup> of public space and 162,000m<sup>2</sup> of SDP (95,000m<sup>2</sup> of housing, 53,000m<sup>2</sup> of activities and offices, 2,000m<sup>2</sup> of shops and 12,000m<sup>2</sup> of facilities)

GPA, EPA Orsa - Ivry-sur-Seine, France

Label ÉcoQuartier 2020, Stage 2

## COLLECTIVE INTELLIGENCE: ONE-TO-ONE CONVERSATIONS

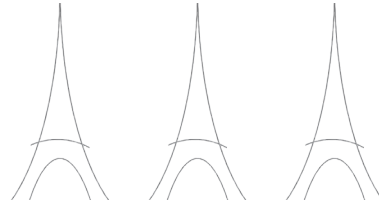




## DECONSTRUCTION OF LA CITÉ GAGARINE

GOAL: RECYCLE MORE THAN 90% OF THE MATERIAL.

**30,000  
TONNES  
OF DECONSTRUCTED  
MATERIALS**



EQUIVALENT TO THE WEIGHT OF 3 EIFFEL TOWERS

### ECOLOGICAL AND ECONOMIC BENEFITS



LESS CO2 EMISSIONS



PRESERVATION  
OF GRANULATES



WASTE BECOMES A LOCAL  
RESOURCE





CIRCULAR AND SOLIDARITY ECONOMY: DECONSTRUCTION/ DISMANTLING/ TRACEABILITY



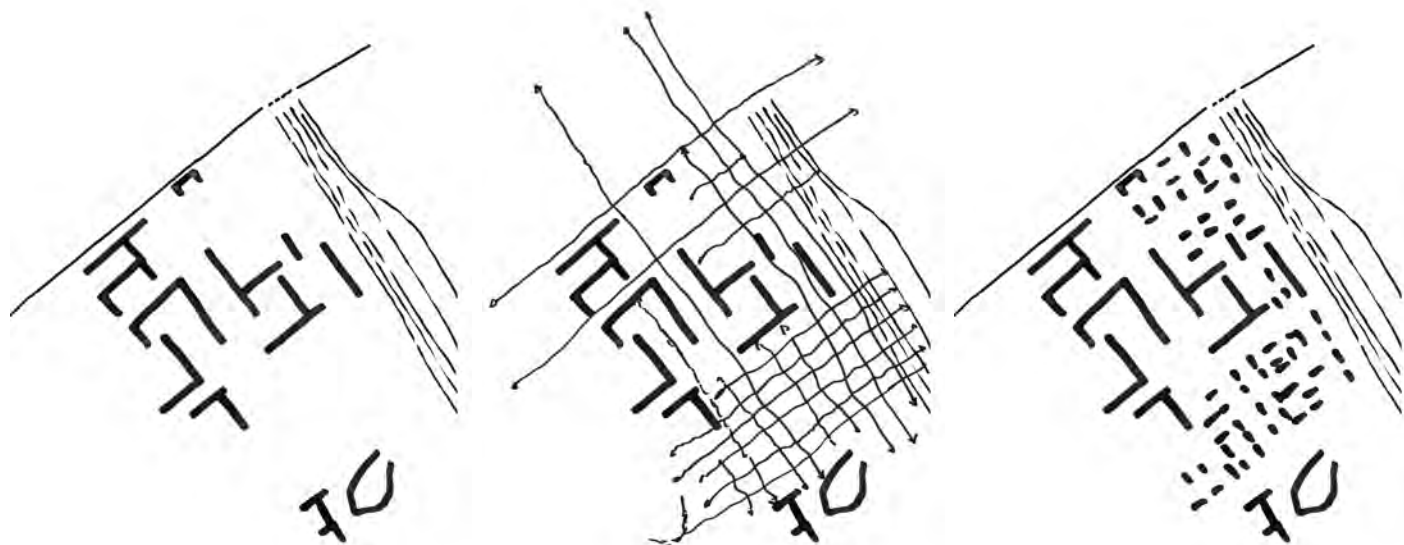


## THE LANDSCAPE AS INFRASTRUCTURE: AN AGROCITÉ

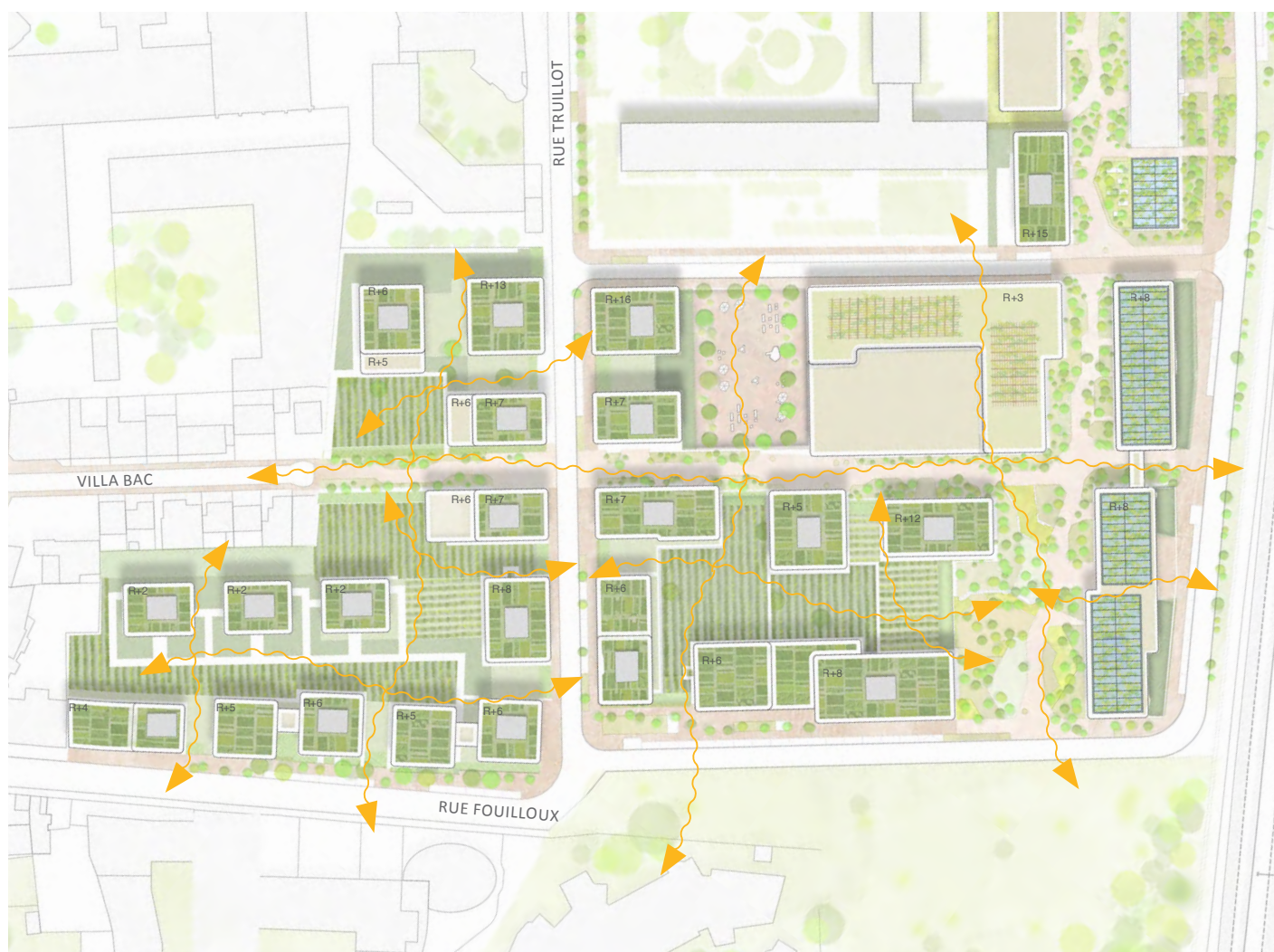




## DIAGRAMS FOR THE GENESIS OF PUNCTILLIST URBANISM

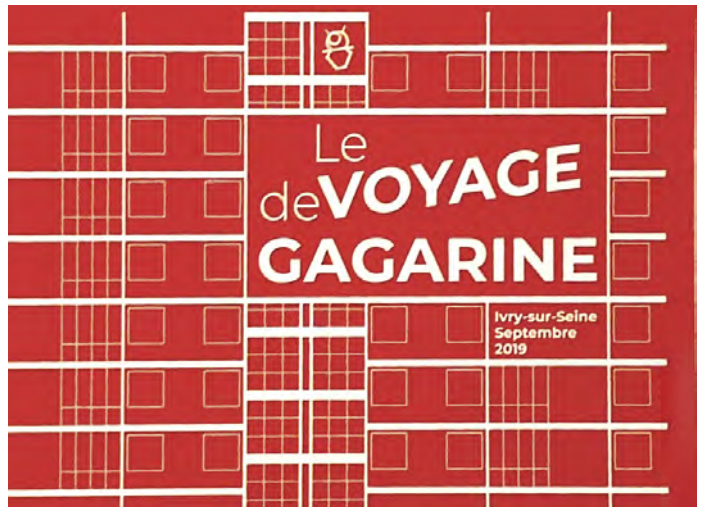
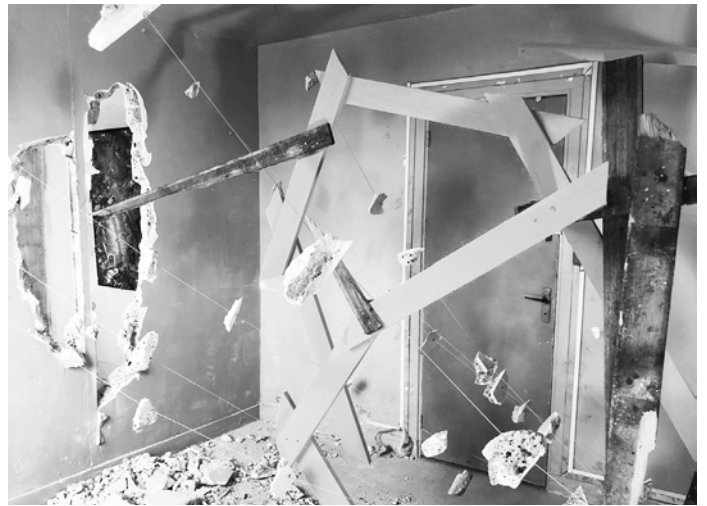


## PUNCTILLIST URBANISM: THE SENSITIVE SECURITISATION OF PUBLIC SPACE





## TEMPORARY URBAN PLANNING: ART, CULTURE AND GREENHOUSES





AGROCITÉ GAGARINE TRUILLOT





## MADE IN BLAGNAC

Development permit pending. Political validation obtained.

Project for a mixed-use neighbourhood: Family housing (32,000 m<sup>2</sup>), work and creativity spaces (4,000 m<sup>2</sup>), shops (2,000 m<sup>2</sup>), parking (360 UPK) and public spaces including a park (8,200 m<sup>2</sup>). - 38,000m<sup>2</sup>

50% of permeable ground spaces, E+C- certification, achieved E3C1 level, NF Habitat HQE

### A MIXED NEIGHBOURHOOD ON THE OUTSKIRTS OF THE METROPOLIS OF TOULOUSE

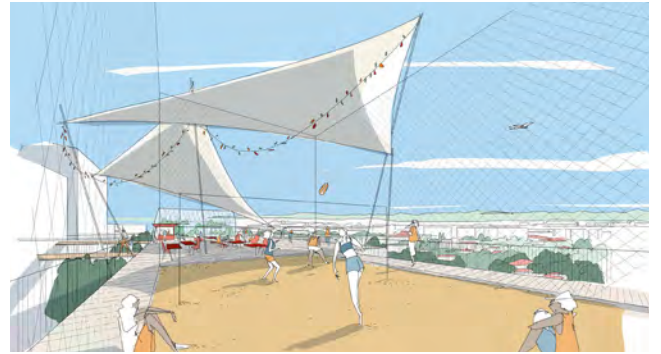


### ESTABLISHING A SHOPPING PLAZA - DRIVER OF MADE IN BLAGNAC





## LIVING IN THE LARGE LANDSCAPE OF TOULOUSE



## GREEN TO ESTABLISH AN UNFEELED DENSITY



## LANDSCAPE AS INFRASTRUCTURE





# ÉCOQUARTIER ROUGET-DE-LISLE

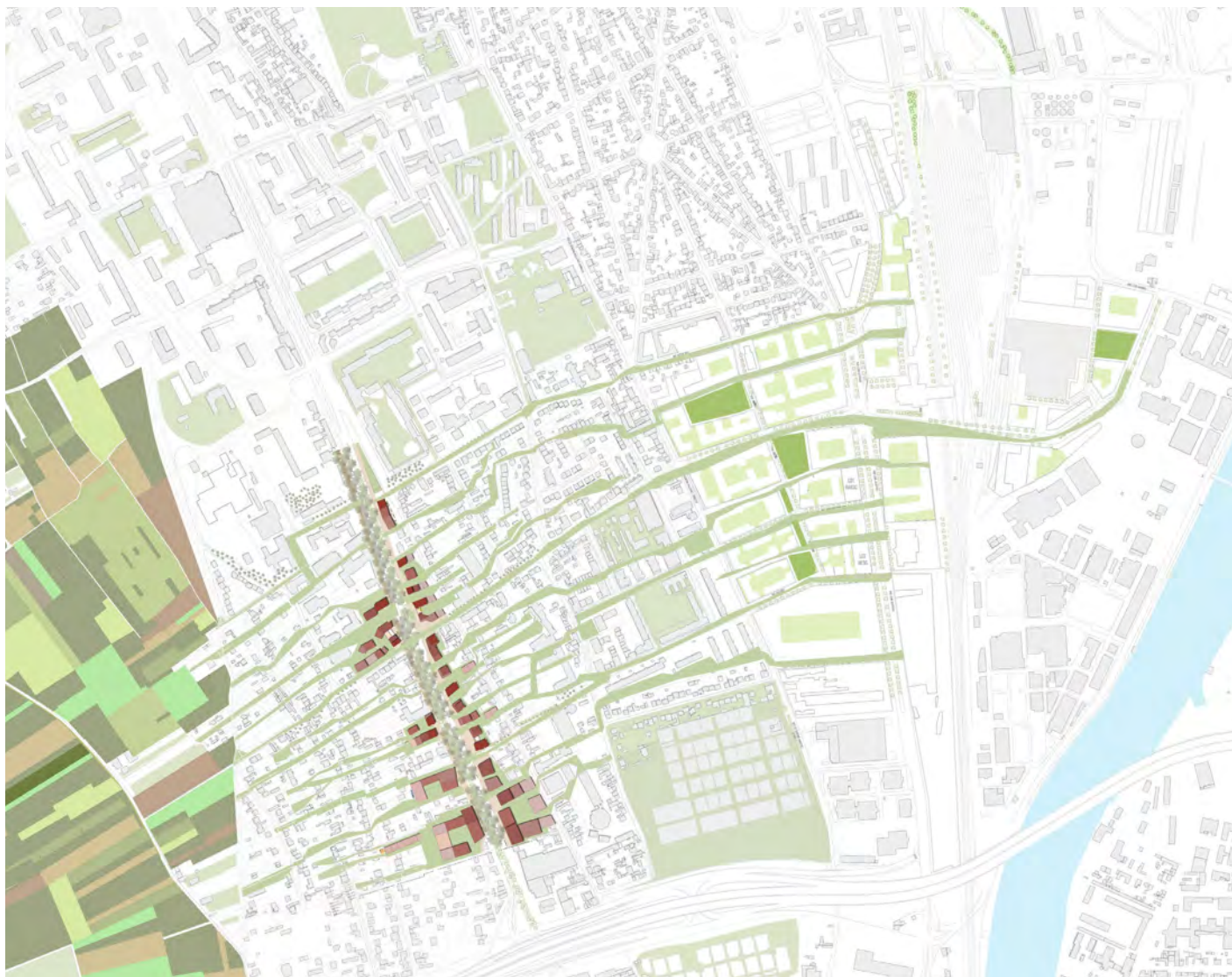
Futurs Possibles Award 2014, Finalist of the EPL 2021 trophy, category 'City of tomorrow-smart city'

65,000 m2 housing; 65,000 m2 activity; 5,000 m2 commerce; 1,000 m2 facilities. 136,000 m2 SDP

Ville de Vitry, SADEV 94 - Vitry-sur-Seine, France

ÉcoQuartier 2017, Stage 2

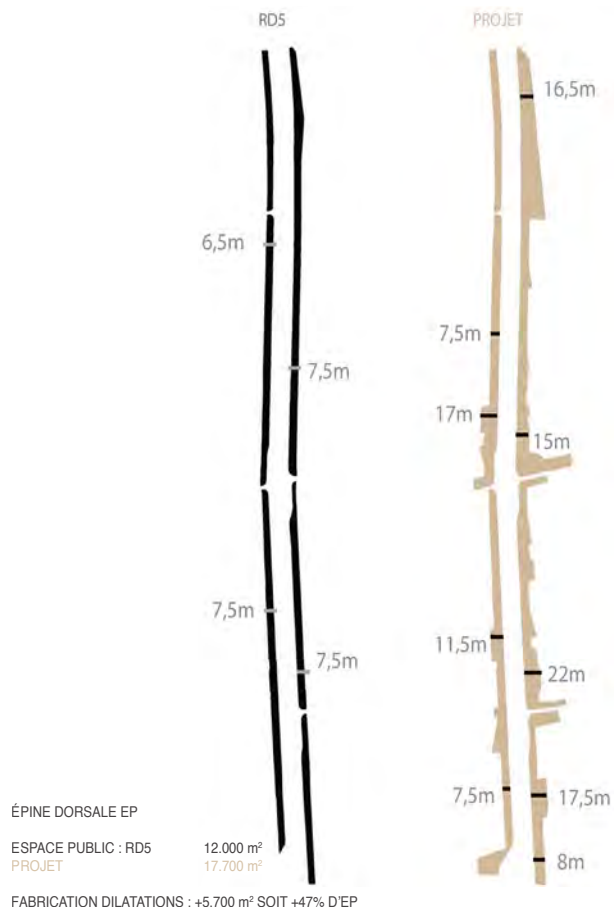
## THE LANDSCAPE AS INFRASTRUCTURE: ECO-CONNECTORS



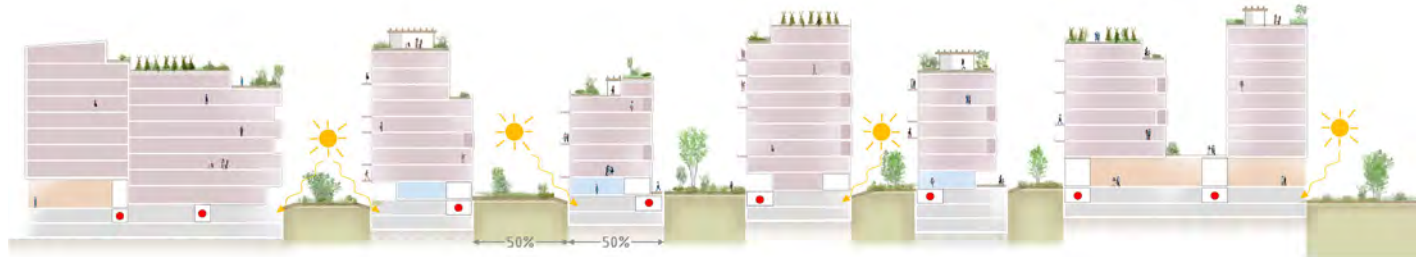
## THE DOMESTIC SCALE



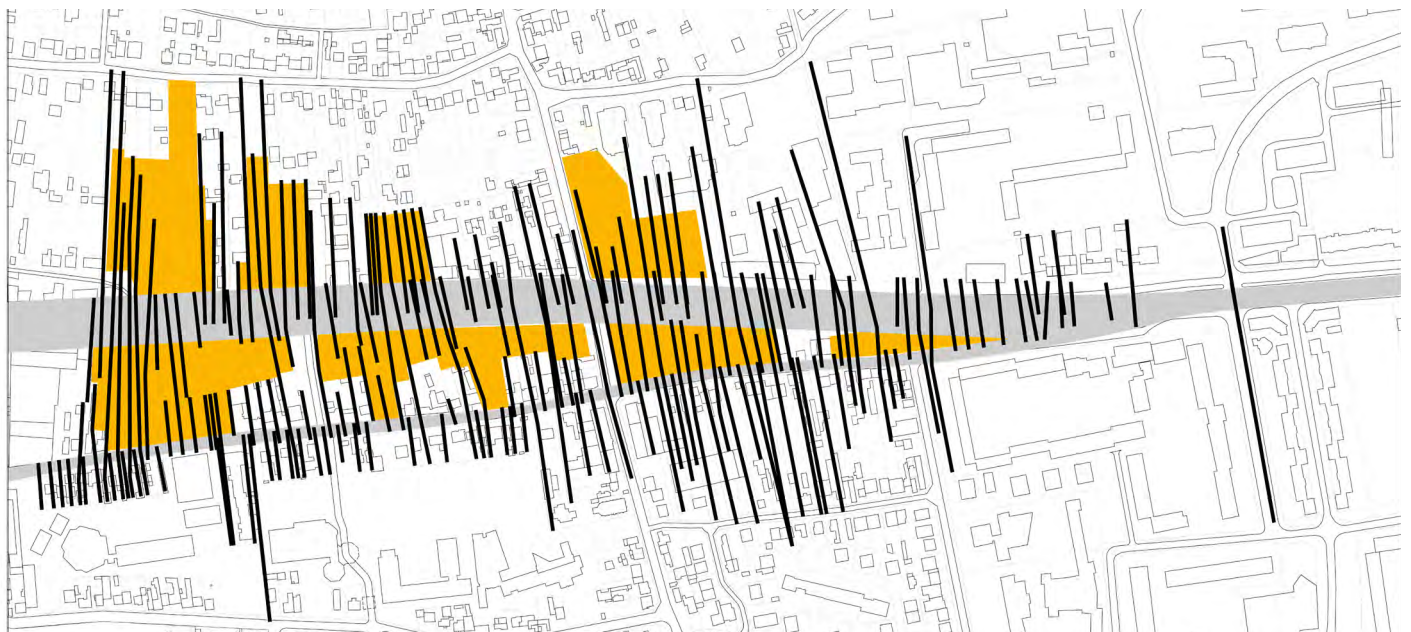




## DUCILE PUBLIC SPACE: THE PS BACKBONE



## COMPACTNESS - DENSITY



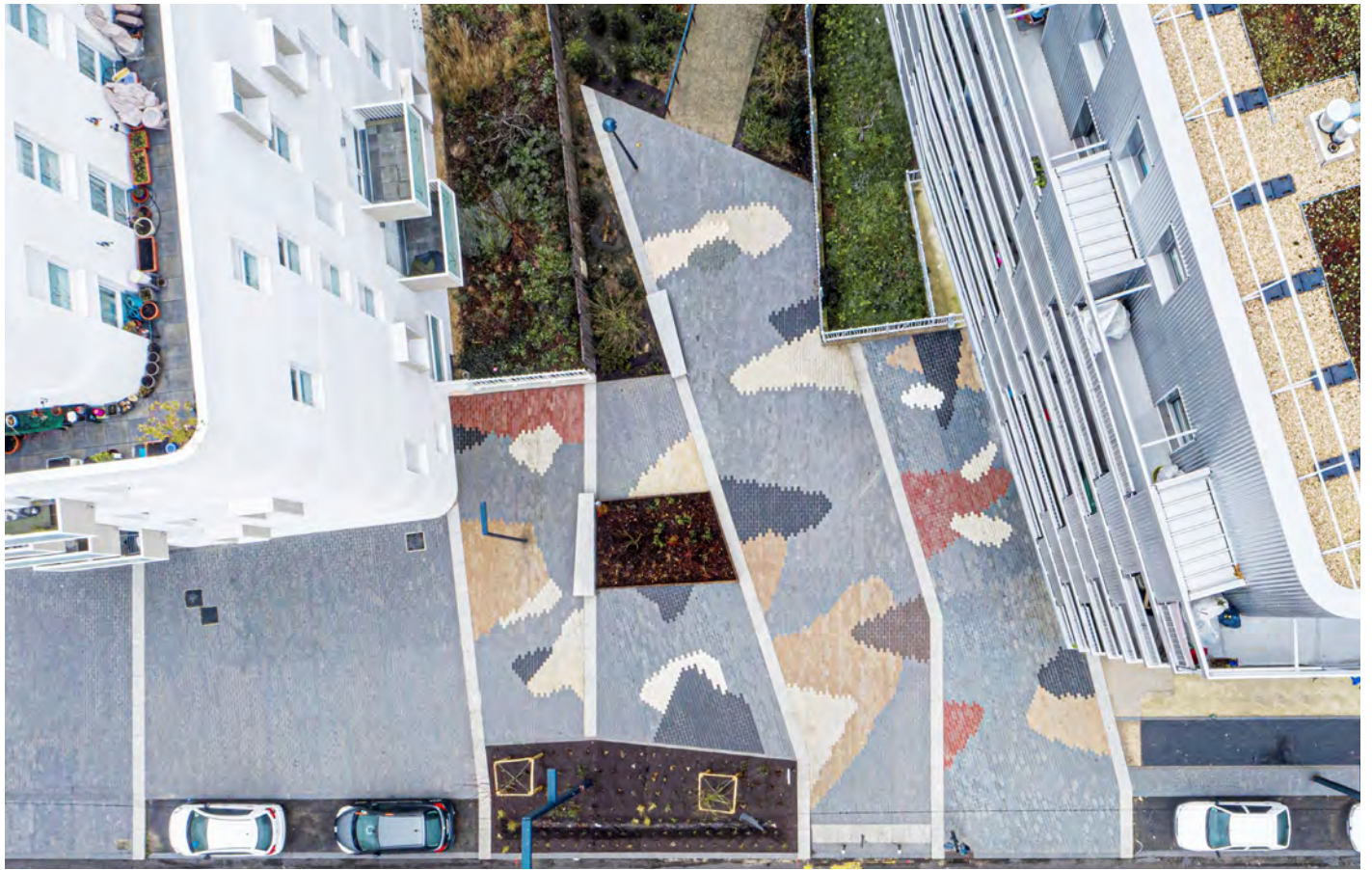




ECO-CONNECTORS







**PUBLIC SPACE AS AN OPPORTUNITY**





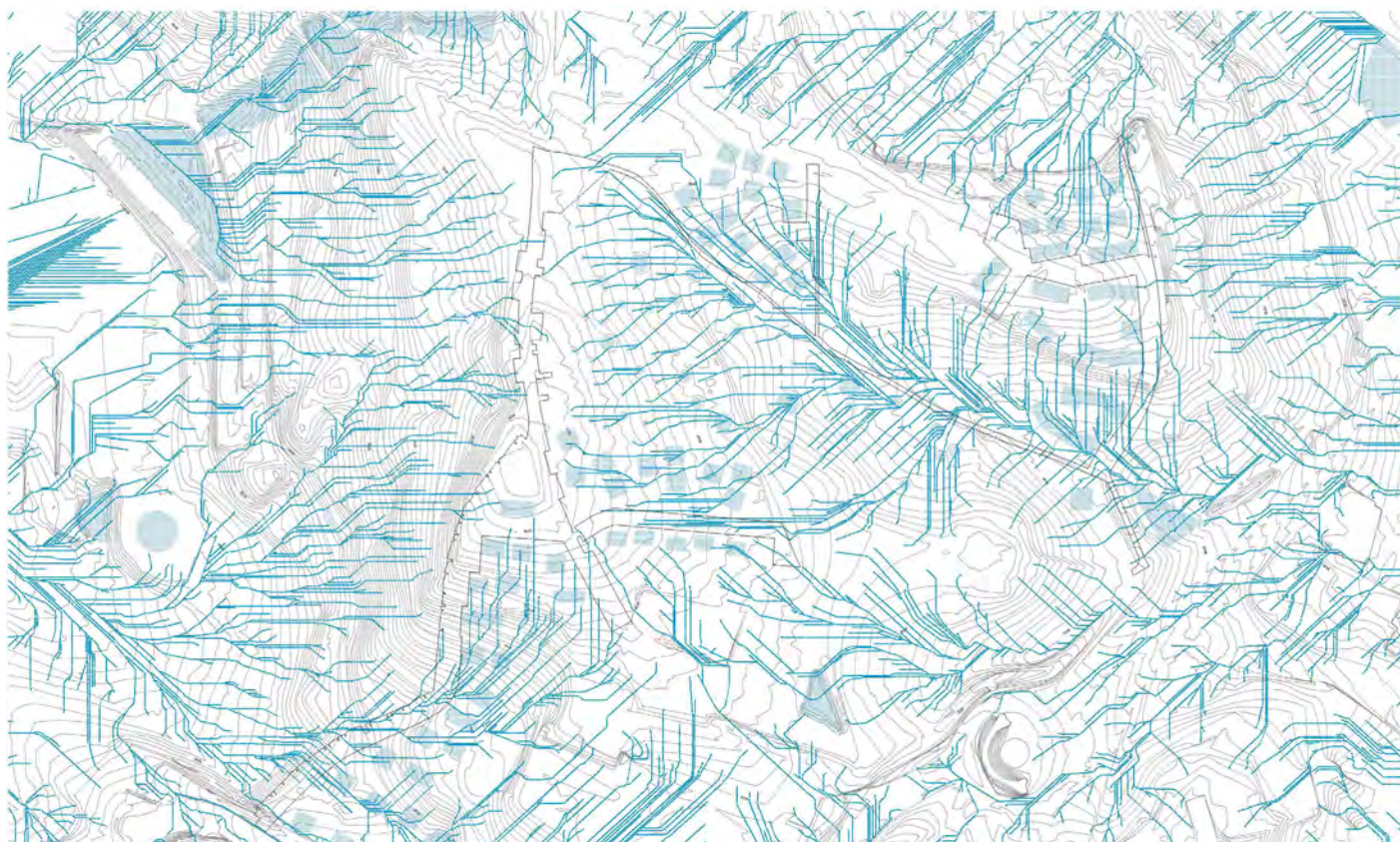
## ZAC DU COTEAU

Finalist in international competition

1,200 homes, tertiary, facilities, public space - 100,000m<sup>2</sup>

SAAM - Montpellier, France

### THE GREAT WESTERN PARK, TOWARDS AN ORGANOLEPTIC CITY









# CARNOT-VEROLLOT

FAD International Award 2015 - Selected by the Île-de-France housing quality observatory - CAUE Val-de-Marne

320 dwellings, social housing for young workers 183 studios, 160 m2 public facilities, car park - 23,270.0 m2 Altarea  
Cogedim, Expansiel Promotion Valophis Habitat Ville et Vie - Ivry-sur-Seine.

HQE; Label Haute Performance Energétique cible BBC 2005 (Bât. C,CC,D)

## ORGANOLEPTIC CITY, CITY OF SENSES



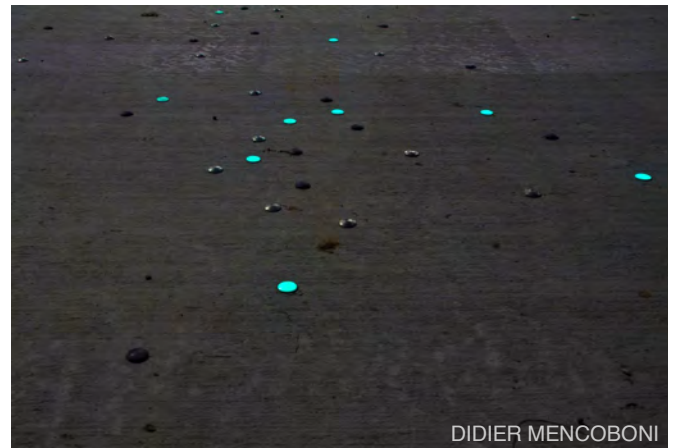


BUILD IN A DIFFERENT WAY





## LIGHT AS AN ACTIVATOR OF PUBLIC SPACE

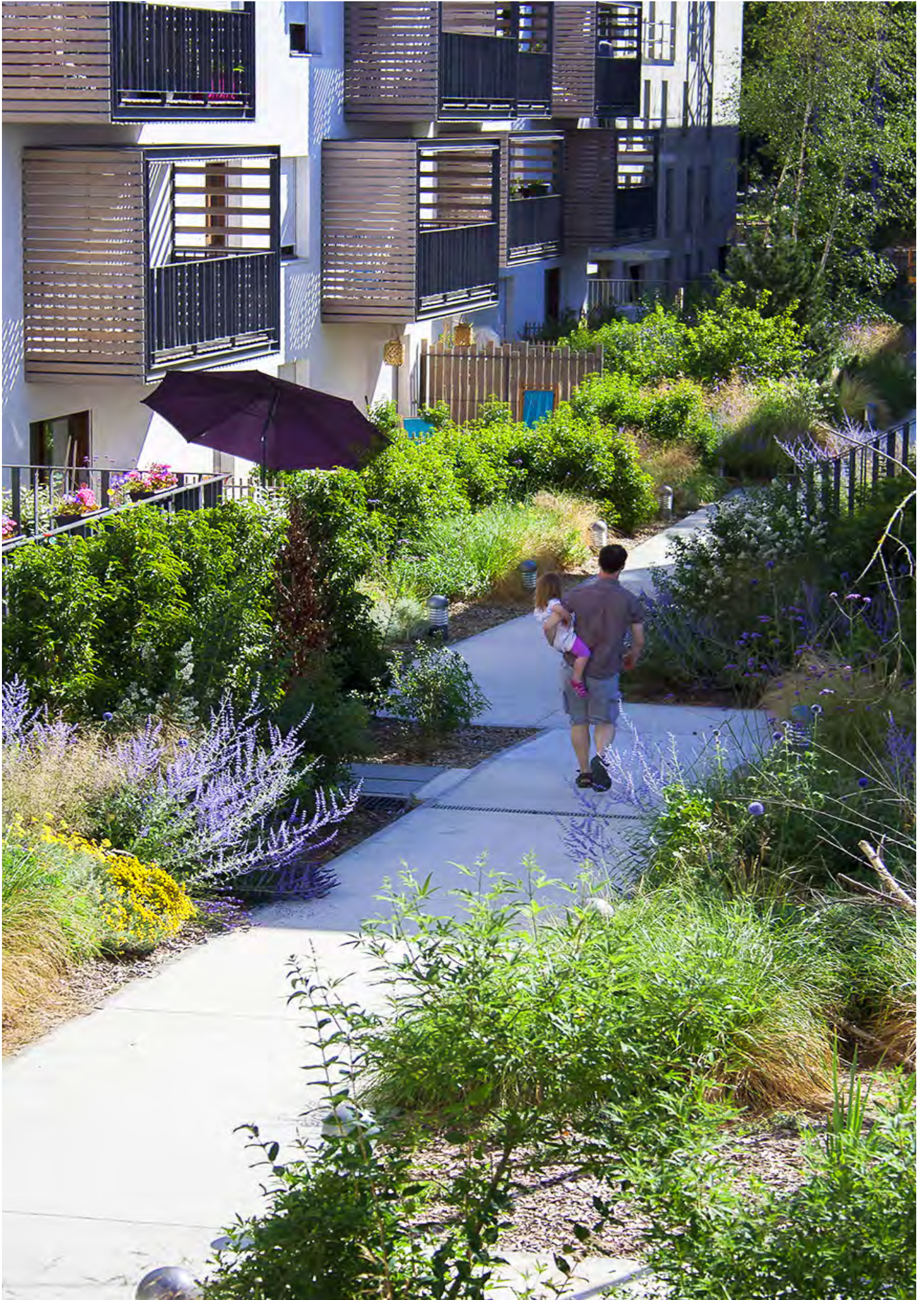








## THE LANDSCAPE AS INFRASTRUCTURE





## COEUR DE VILLE DE BEZONS

162 housing units (78 social housing and 84 shared ownership), 10,729 m<sup>2</sup>

Altarea Cogedim, Groupe Imestia - Bezons, France

Labels NF Habitat HQE + RT 2012

### CREATION OF A NEW URBAN CENTRE













## BETWEEN TWO WATERS: TOWARDS A LIVABLE AND APPROPRIATE CITY

Urban and landscape strategy, construction of 276 social and private housing units, common areas - 18,598m<sup>2</sup>

Pitch Immo - Quai Moutarde, Dijon, France

Labels: Biosourced Building Level 1, RE2020 (carbon threshold 2025), Biodiversity, NF Habitat HQE

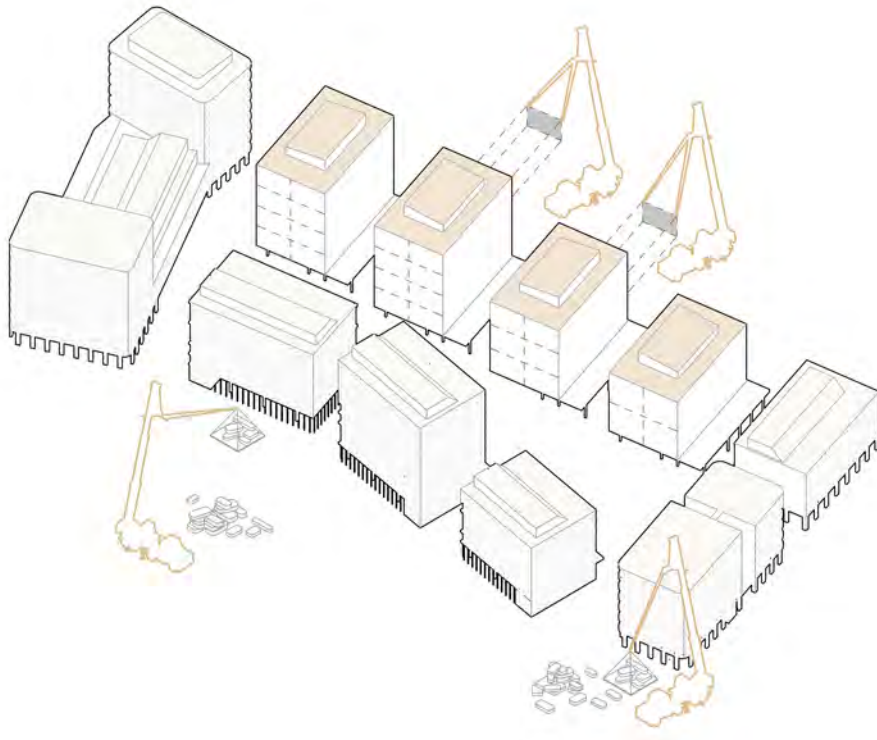
BUILDINGS WITH MIXED WOOD/CONCRETE STRUCTURE AND MIXED STONE/CONCRETE STRUCTURE

### TOWARDS A LIVABLE AND APPROPRIATE CITY





## DE-STANDARDISATION OF CONSTRUCTION

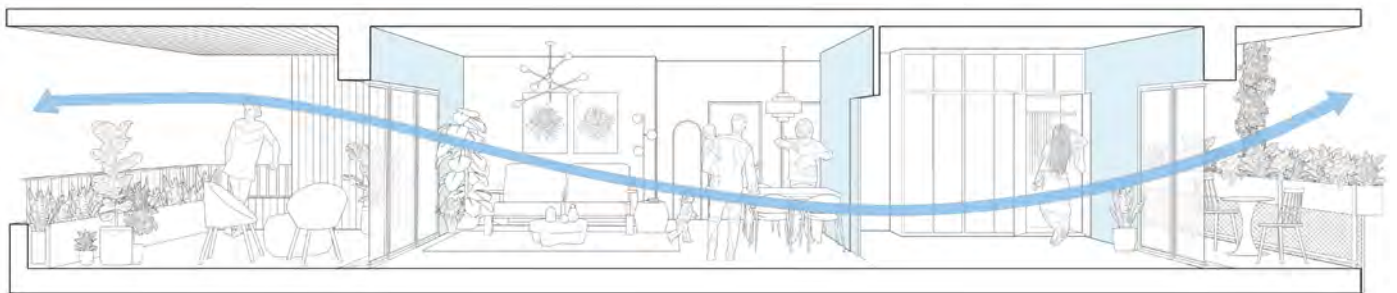




## LANDSCAPE AS INFRASTRUCTURE



40% OF CROSS VENTILATION HOUSES / 60% OF DOUBLE-FACING HOUSES





# EVRY - SOUTH TO NORTH

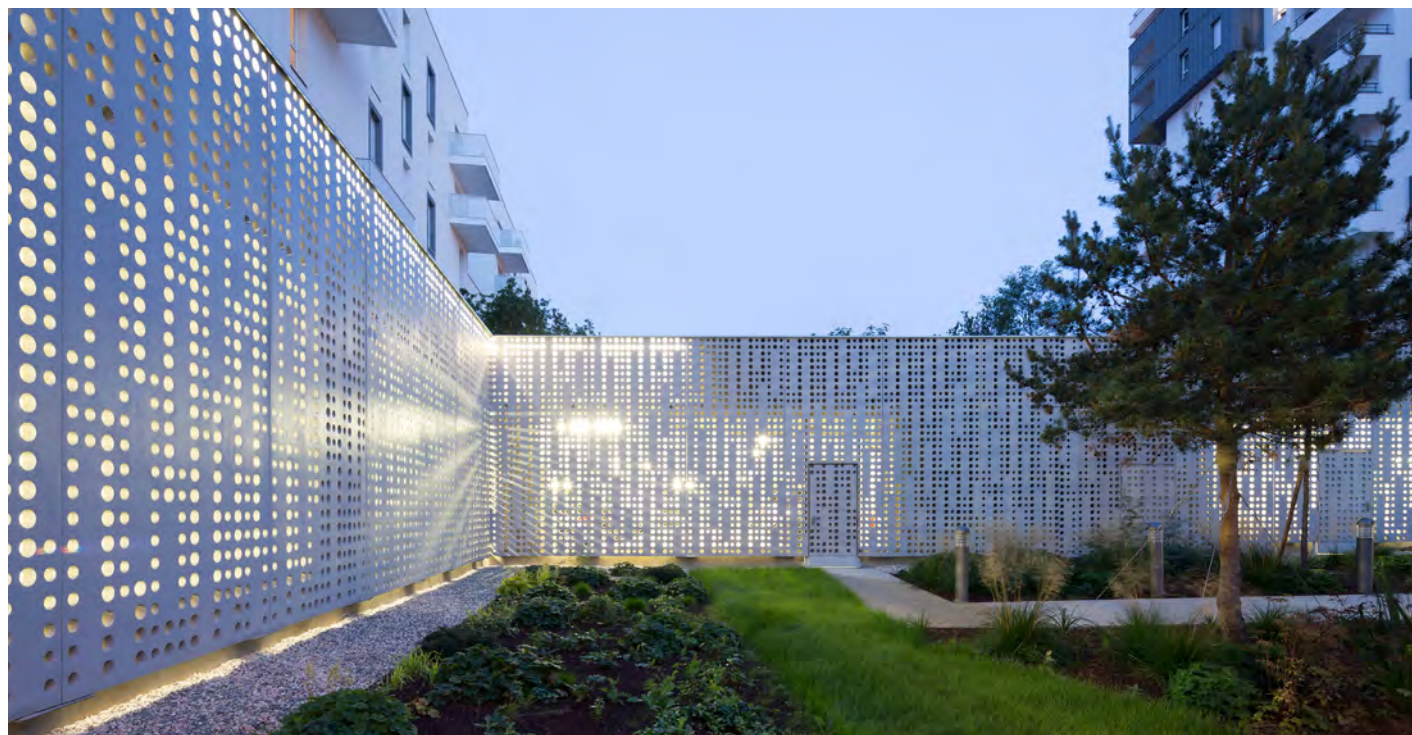
Selected for the 2018 FAD International Award

41 social housing units, 314 private housing units and 394 parking spaces - 25,288m<sup>2</sup>

Archikubik (Agent), DVVD, ECDM - Cogedim Résidence - Evry

BBC Effinergie; H&E Label A certification / RT 2012

## SOCIAL COHESION: OWNERSHIP OF THE COMMON SPACE





## LANDSCAPE AS INFRASTRUCTURE



## LIGHT AS MATERIAL





REVERSIBLE CAR PARK: VENTILATED AND NATURALLY ILLUMINATED





RESCALED DENSITY





## QUAI AUX GRAINS

190 private dwellings; 53 social housing units; 163 parking spaces; 1,100 m<sup>2</sup> of retail space; -15,000 m<sup>2</sup>

Brémont - ZAC Ivry-Confluences, Ivry-sur-Seine, France

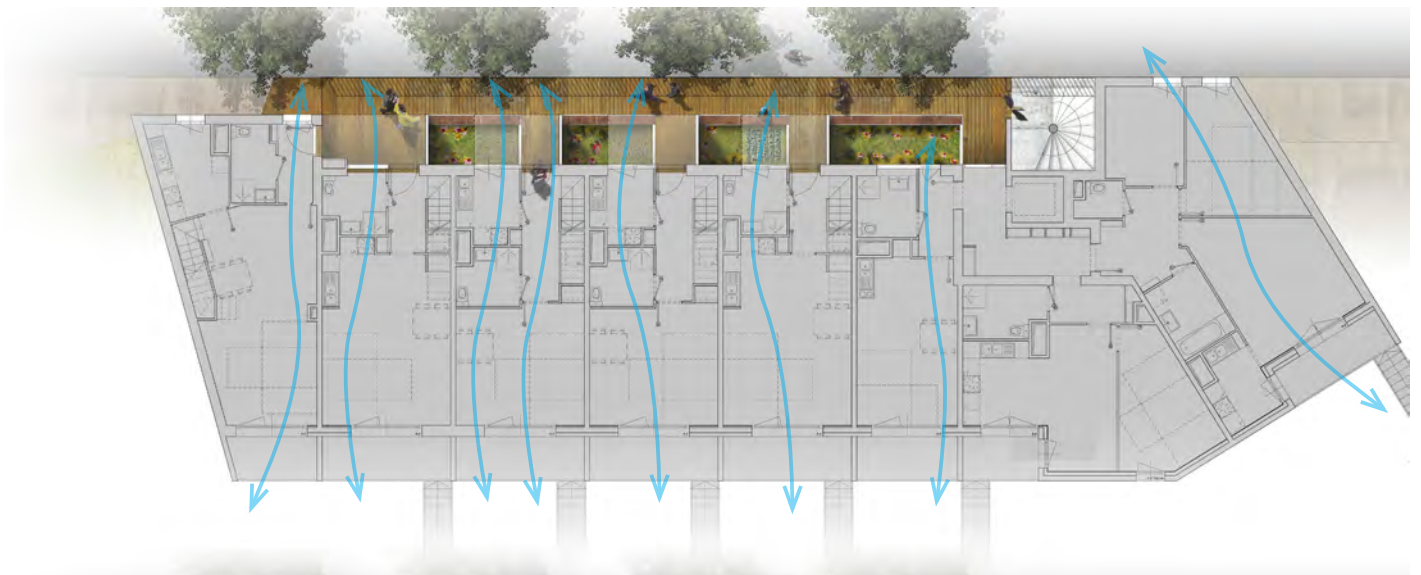
H&E certification, A-profile; BBC Effinergie label; HQE/RT 2005 certification

### CONVIVIALITY





## PRIVATE PARTICIPATED SPACES





## DYNAMIC PUBLIC SPACE





# ARCHITECTURE AND RENOVATION



## SCÈNE DES LOGES

First prize Réinventer Paris 3

Social and private housing, activities, guest house, local shops - 7,355m2 SDP

Immo Extenso, Capelli - Paris XVe, France

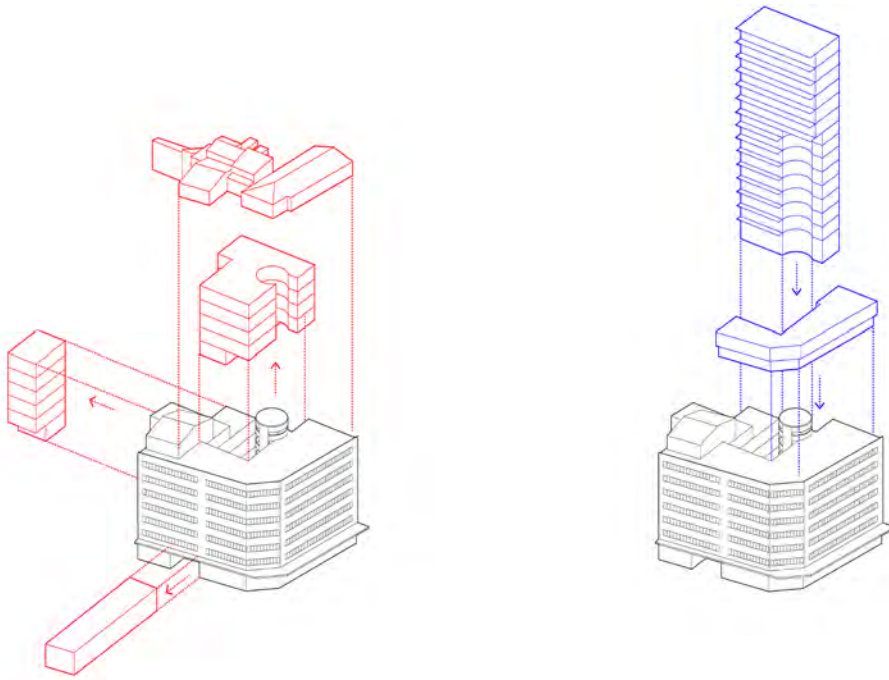
Labels NF HABITAT HQE PARIS® (8 étoiles); E3C1; BEPOS Effinergie

### CONVERSION OF FORMER RENAULT GARAGE INTO HOUSING UNITS





## BUILDING IN A DIFFERENT WAY





STRUCTURE PRÉFABRIQUÉE  
BÉTON ET BOIS

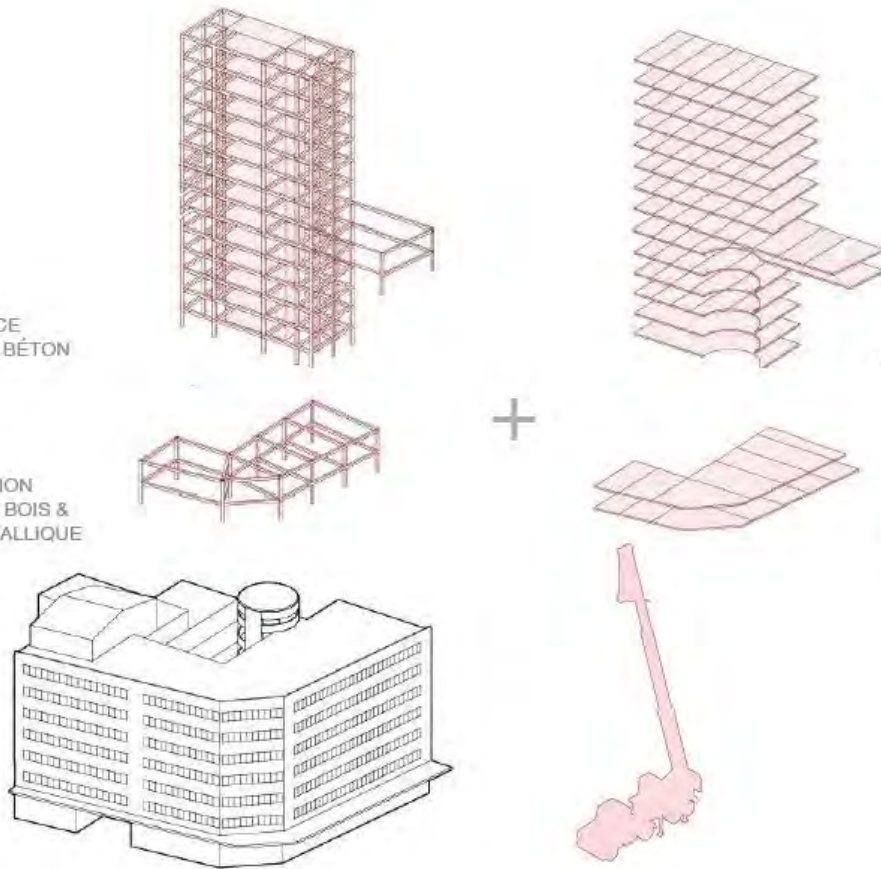
PLANCHERS PRÉFABRIQUÉS  
BÉTON ET BOIS

ÉMERGENCE  
EN STRUCTURE BÉTON

ÉMERGENCE  
EN PLANCHERS BÉTON

SURÉLEVATION  
EN STRUCTURE BOIS &  
STRUCTURE MÉTALLIQUE

SURÉLEVATION  
EN PLANCHERS BOIS





## THE CITY WITHIN THE CITY - LIVING IN A GARAGE





# SÚNION SCHOOL

A+ Award for Best School Building, 2010

Refurbishment and extension of the Escola Súnion - Refurbishment: 4,502m<sup>2</sup> Extension: 1,638m<sup>2</sup> (6,140m<sup>2</sup>)

SÚNION - Barcelona

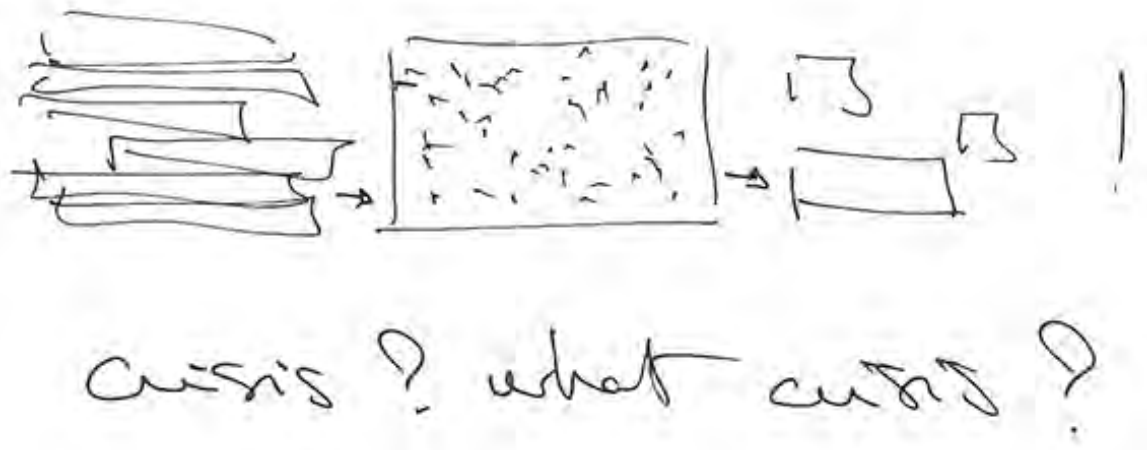
## SPACES FOR INFORMAL EXCHANGES











### BUILDING THE CITY WITHIN THE CITY





# ARCHIPELS

Industrial building converted into work and creative spaces - 4945 + 2622m<sup>2</sup> -

PATRIZIA, Urban Input - Barcelona - Spain

Core Green Buiing Certification, International Living Future Institute

## INTRODUCTION TO BIOPHILIA





## HERITAGE RESTORATION, EXTENSION AND NEW CONSTRUCTION





## WORKING IN A DIFFERENT WAY





## WORKING IN A DIFFERENT WAY





# REI MARTÍ WATER TANK

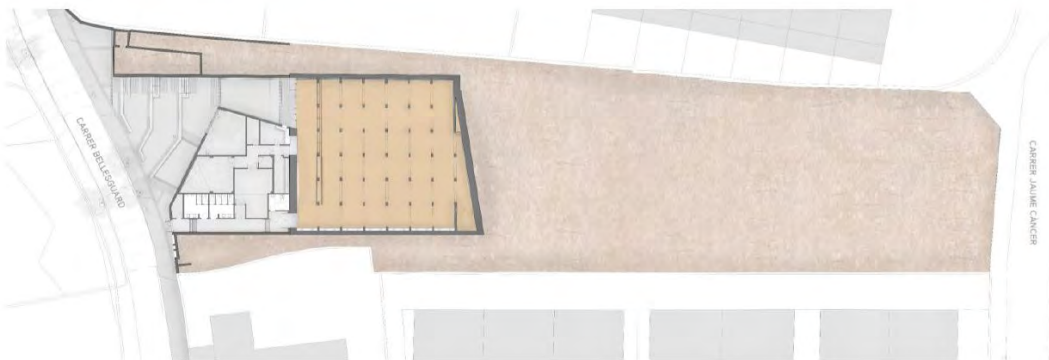
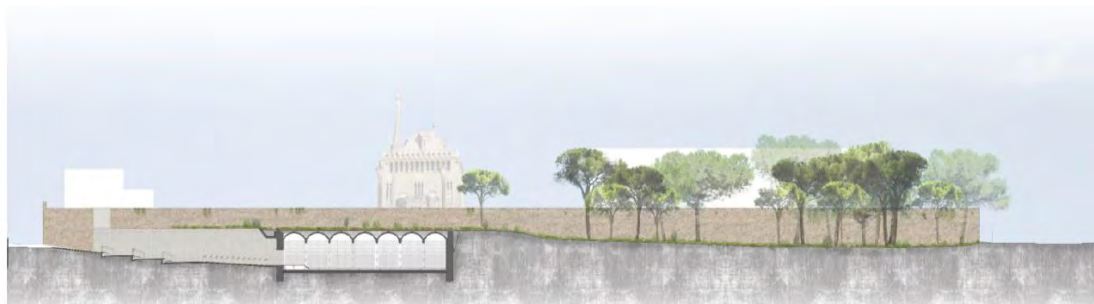
Shortlisted for the FAD Award

Cultural Centre- Refurbishment: 958.30m2

Barcelona City Council - Barcelona, Spain

BREEAM, Very Good rating

## DÉJÀ-LÀ



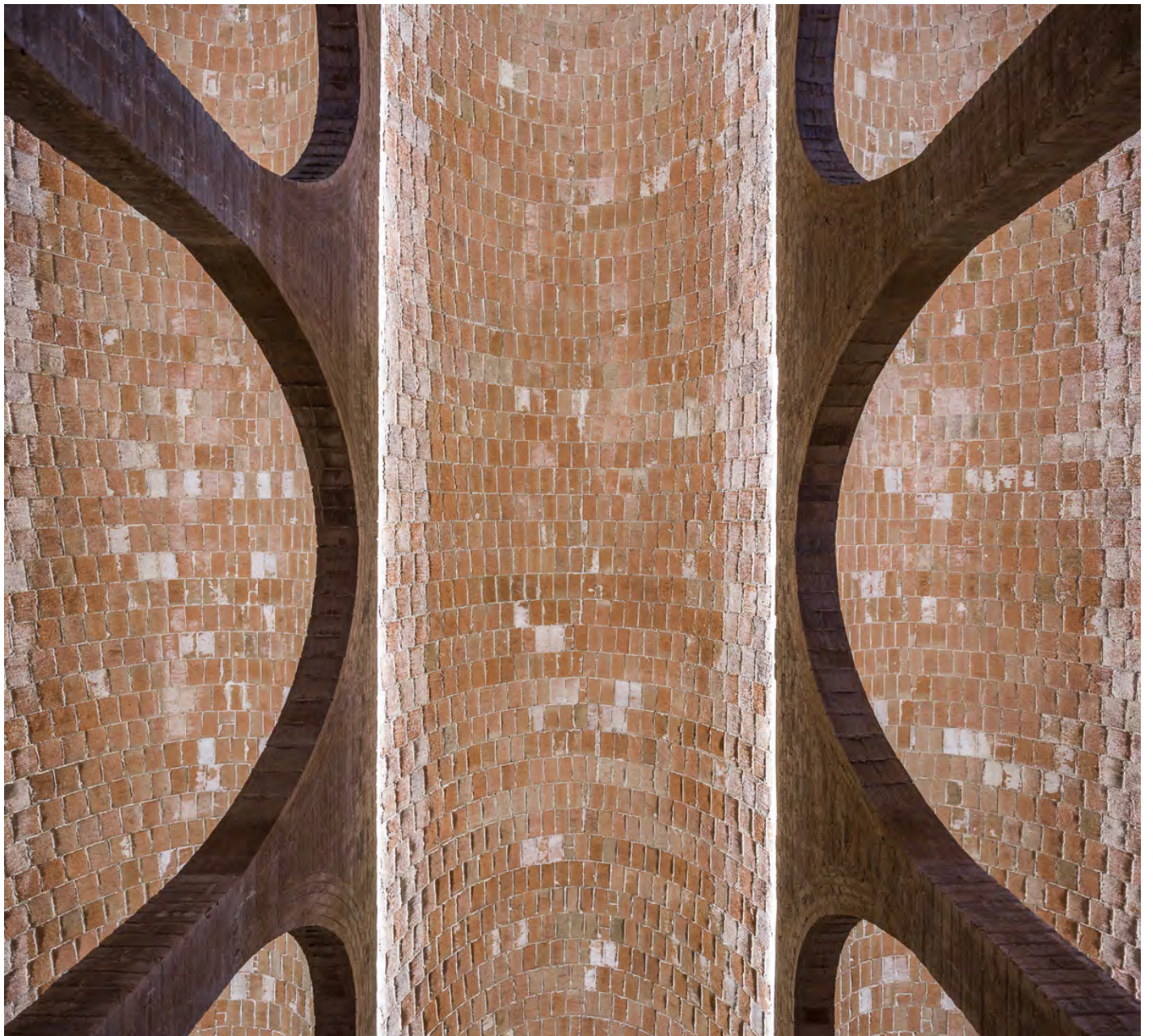
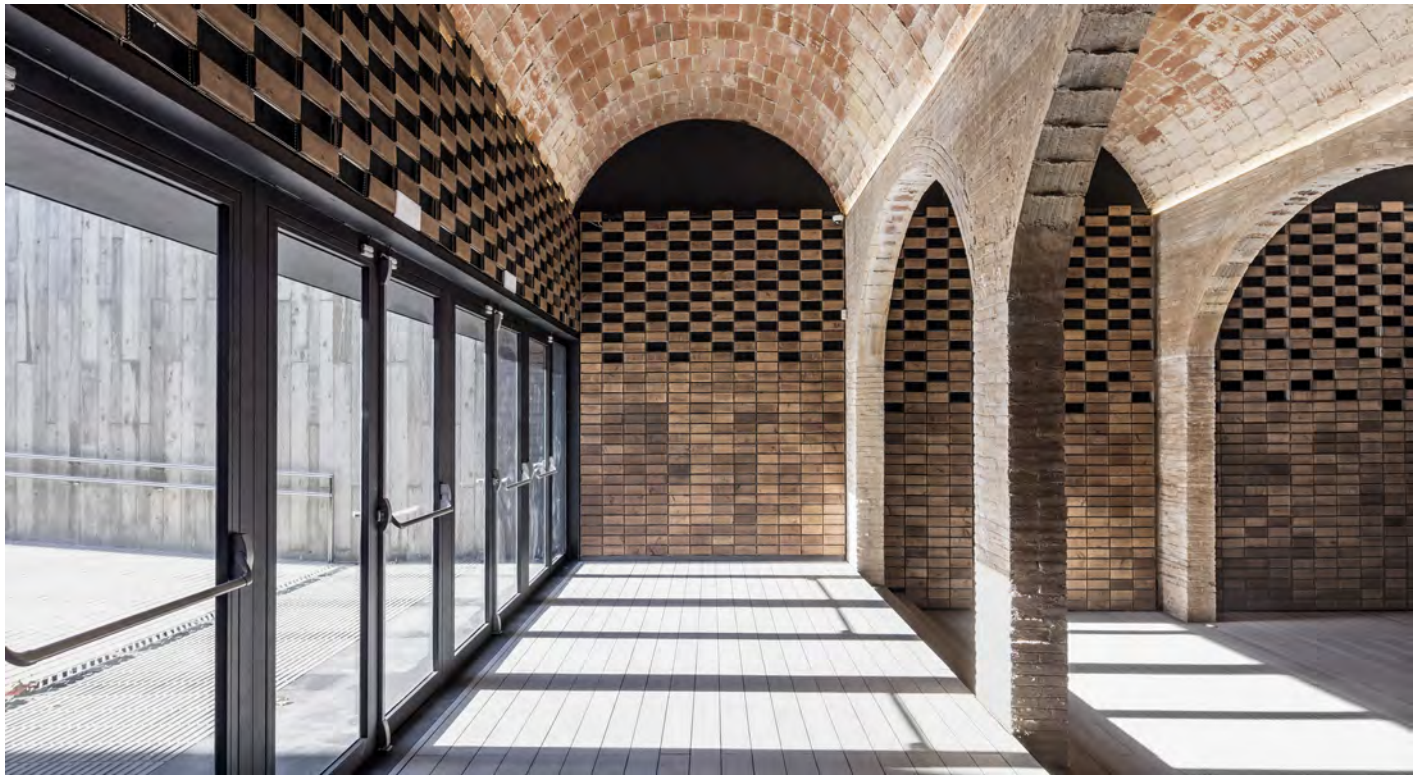




CITY RECYCLING

















## LESS THAN A TOWER

32 hotel apartments, 1 commercial unit, 35 parking spaces - 5100m<sup>2</sup>

SAPIC - Barcelona, Spain

HQE®

### A UNIQUE URBAN ANCHORAGE





## URBAN LANDMARK



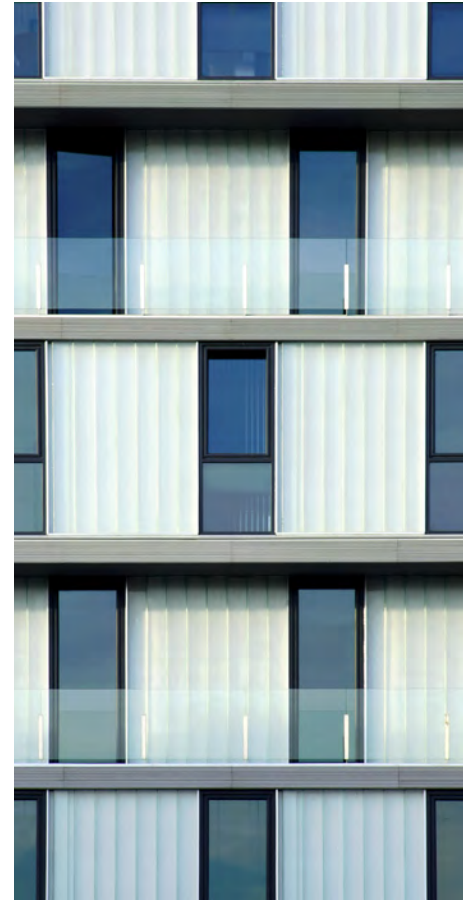


## MEETING POINTS





## A PERMANENT PHYSICALITY



## ESPACIOS FLUIDOS





## FLUID SPACES





# ANÉMONE - KLEY STUDENT RESIDENCE

First prize competition

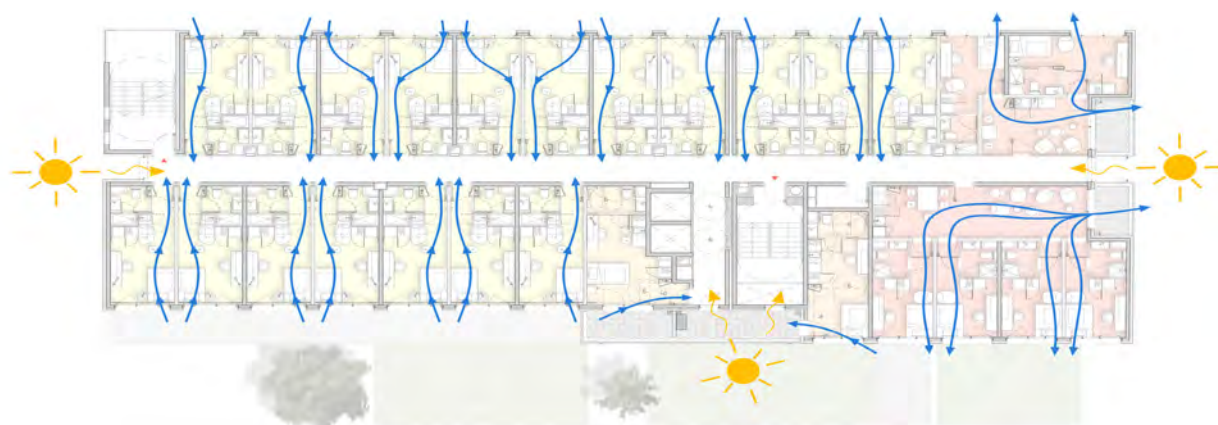
Student residence with 215 rooms (246 beds), 500m<sup>2</sup> of communal areas - 6,300m<sup>2</sup>

Groupe Kley- Montpellier

BDM argent (Bâtiment Durable Méditerranéen) and BEPOS Effinergie labels

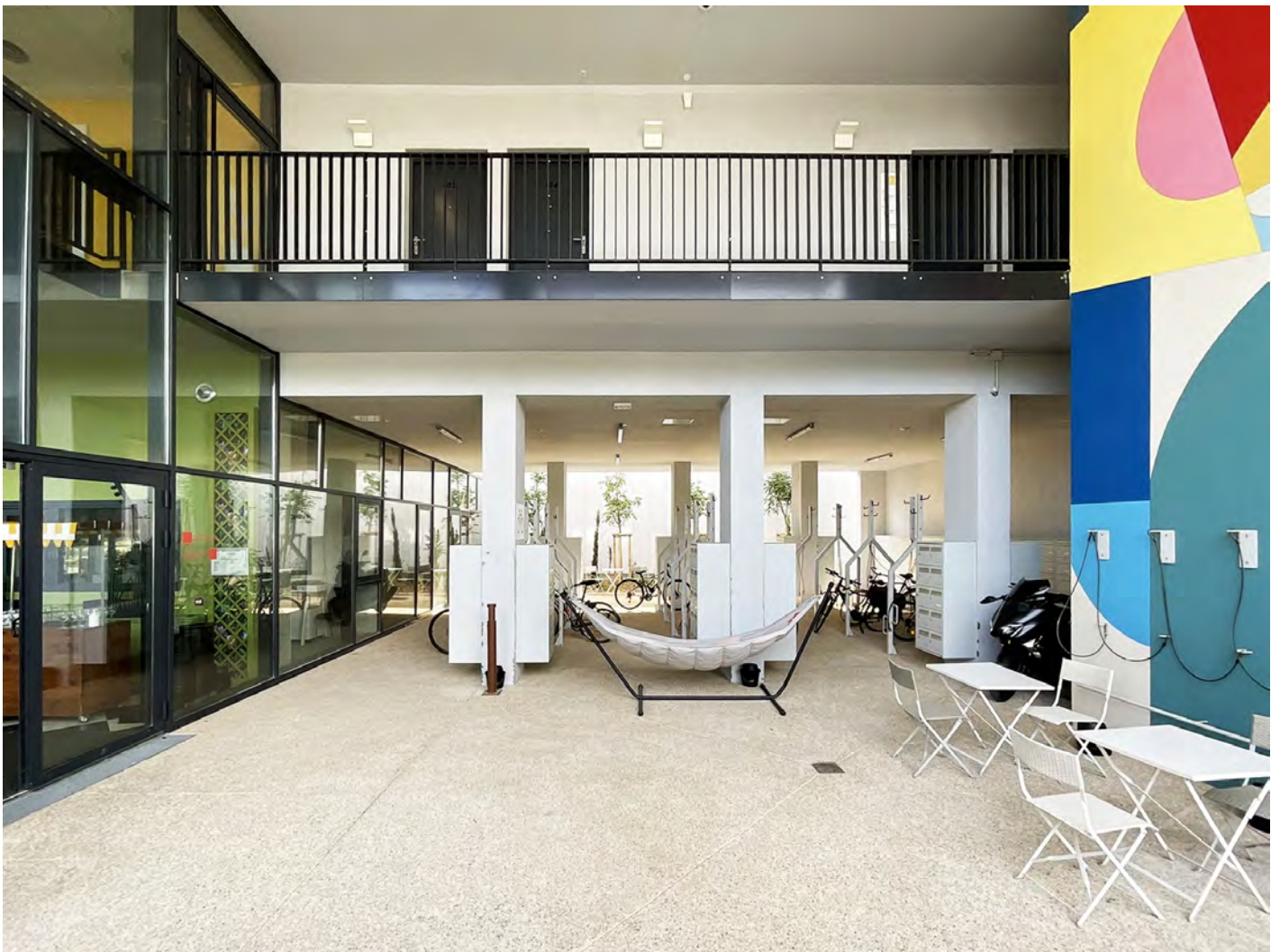


## AIR QUALITY: CLIMATE CORRIDOR





## A LIGHTWEIGHT DOUBLE SKIN









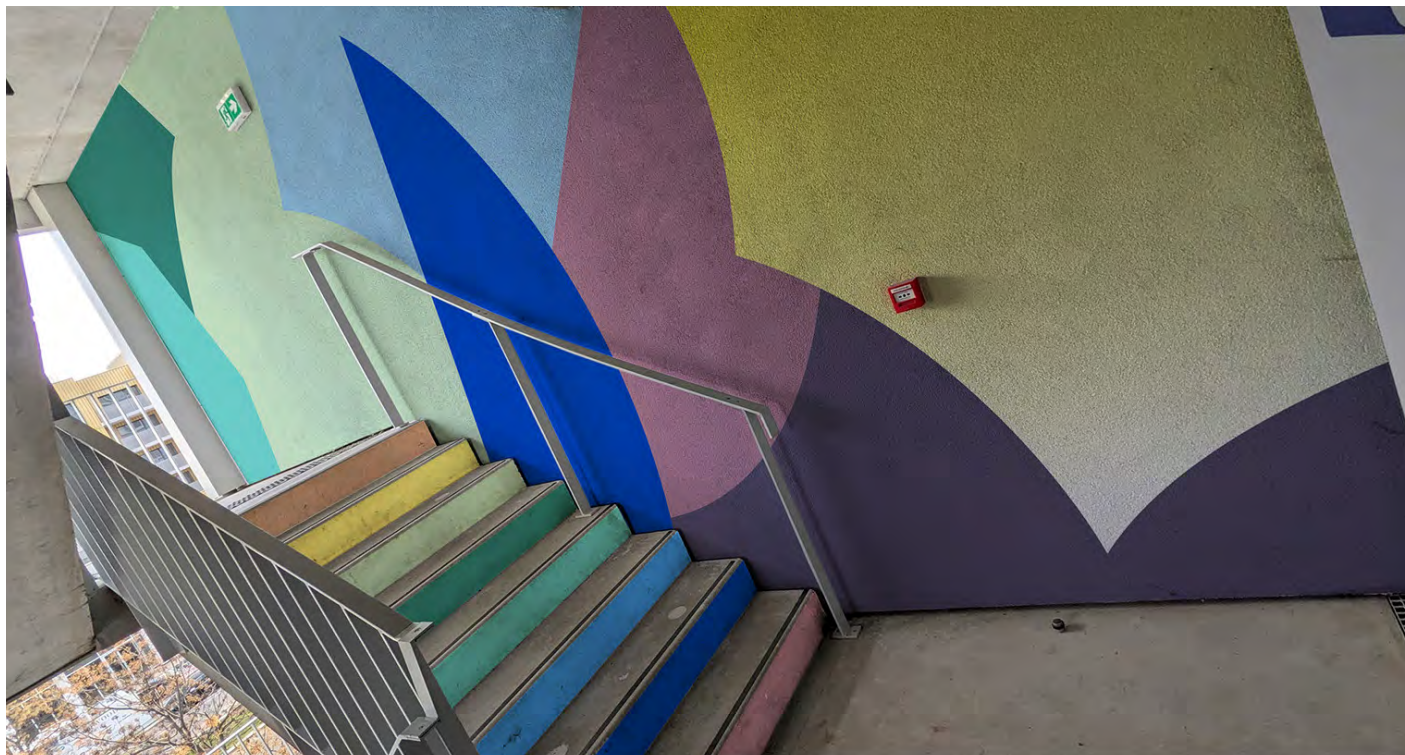


**PLANTED AND ACCESSIBLE ROOFTOP**





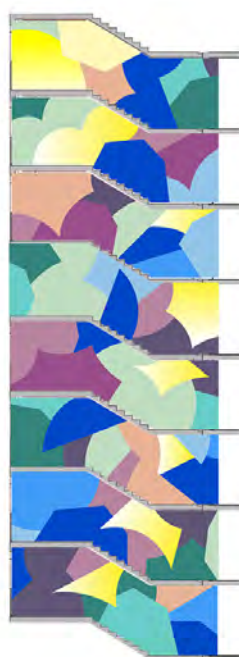
## ARTISTIC STAGE SETTING



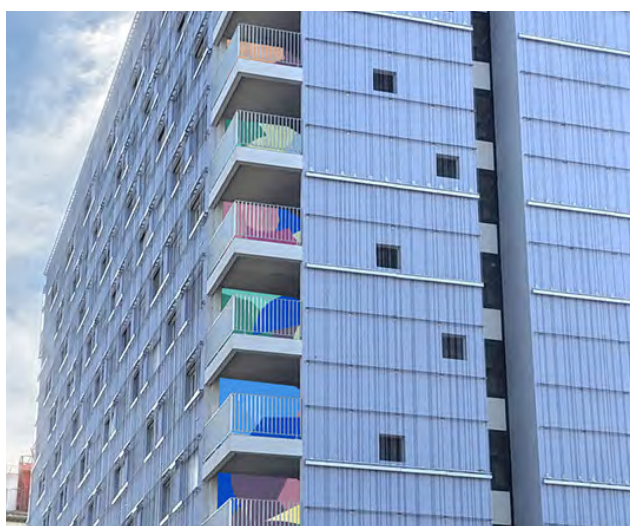
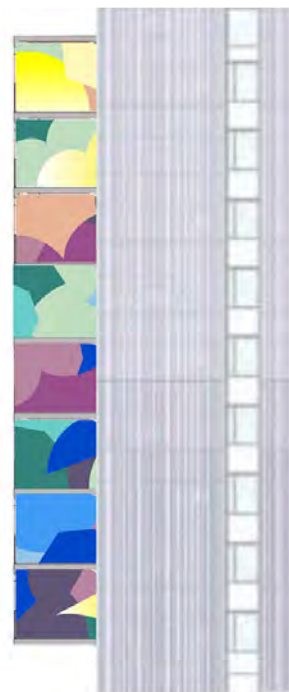
Implantation en coupes et parties  
visibles de la fresque sur le schéma de droite :



IMPLANTATION DE LA FRESCUE  
N°1010



IMPLANTATION DE LA FRESCUE  
N°1010





## AU FIL DE L'EAU

Mixed programme: Transgenerational residence, students (362 beds) and seniors (111 beds);

Aparthotel (99 apartments); offices; hotel with 175 rooms;

747 beds in total - 24,350m<sup>2</sup>

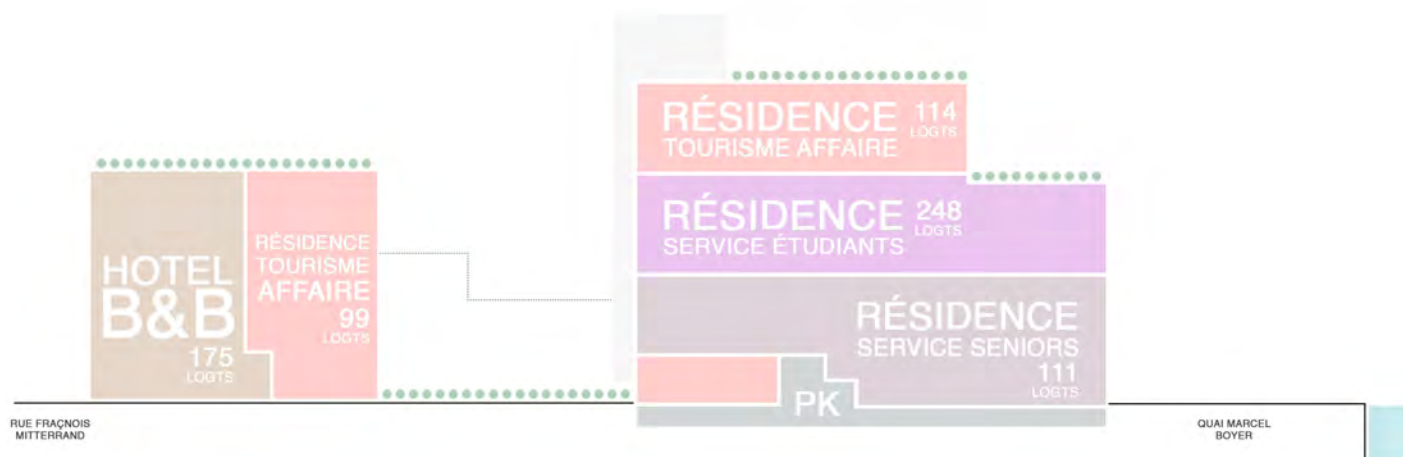
SCCV Urban Ivry - Ivry-Port development zone, Ivry-sur-Seine

E1 C1 (Energy + Carbon -) certification: For the serviced residence: NF HABITAT HQE with Effinergie + label: C-20 + additional requirements; For offices and hotels: HQE approach for service sector buildings and Effinergie+ level

### LANDSCAPE AS INFRASTRUCTURE



### MIXED PROGRAMME





## UNAWARE DENSITY





## DOUBLE SKIN: PASSIVE SUN PROTECTION AND RAINWATER HARVESTING













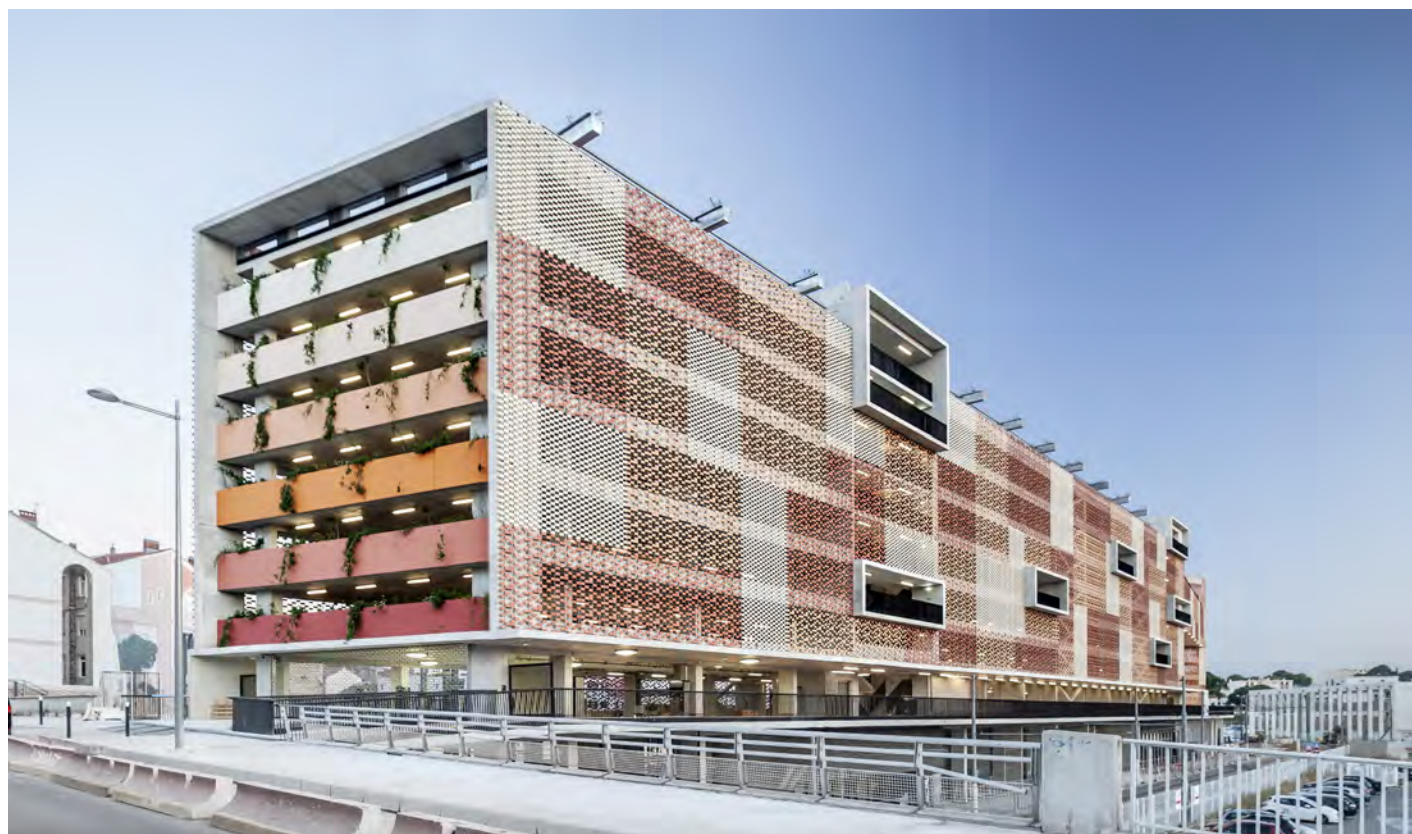
## SAINT-ROCH REVERSIBLE CAR PARK

German Design Awards 2018 - Nominated for the Mies Van Der Rohe Award 2017 - Catalan Pavilion Venice Biennale 2016 - Mentioned in the ASCER Awards 2015 - Selected for the 13th Hispalyt Awards 2015 - Finalist in the EDF Bas Carbone competition 2014

Car Park - 792 spaces and retail space - 26,791m<sup>2</sup>

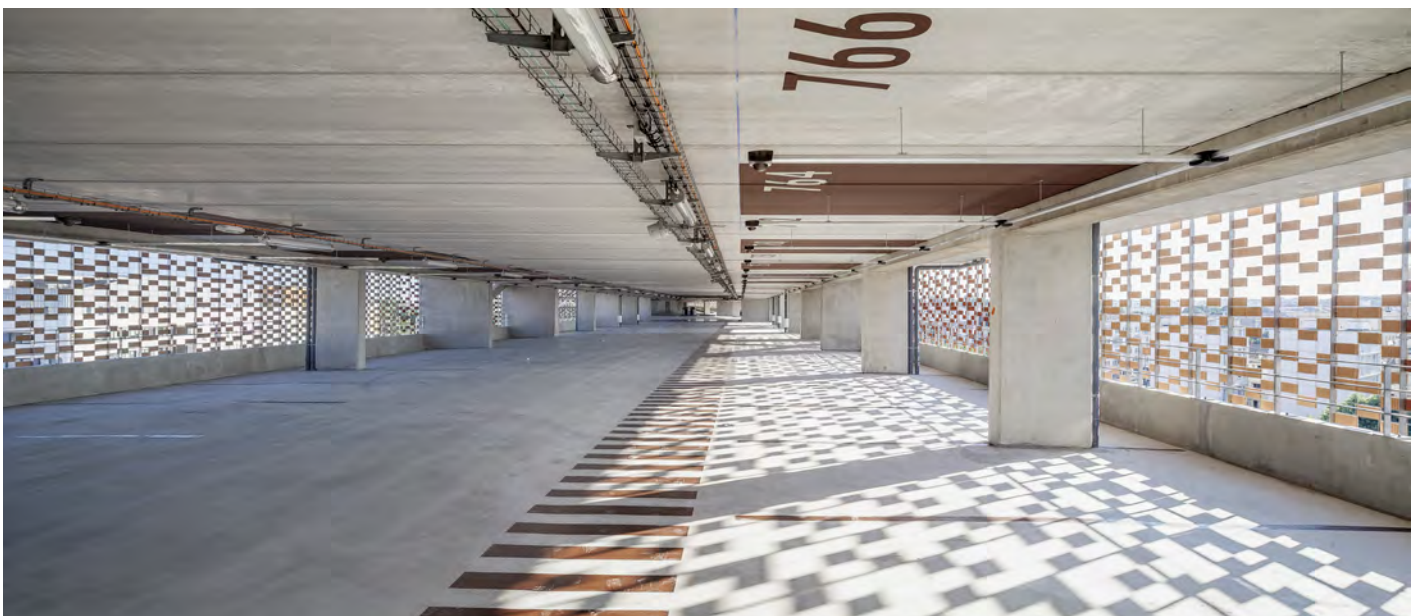
SERM - Montpellier

### RELATIONAL BUILDING



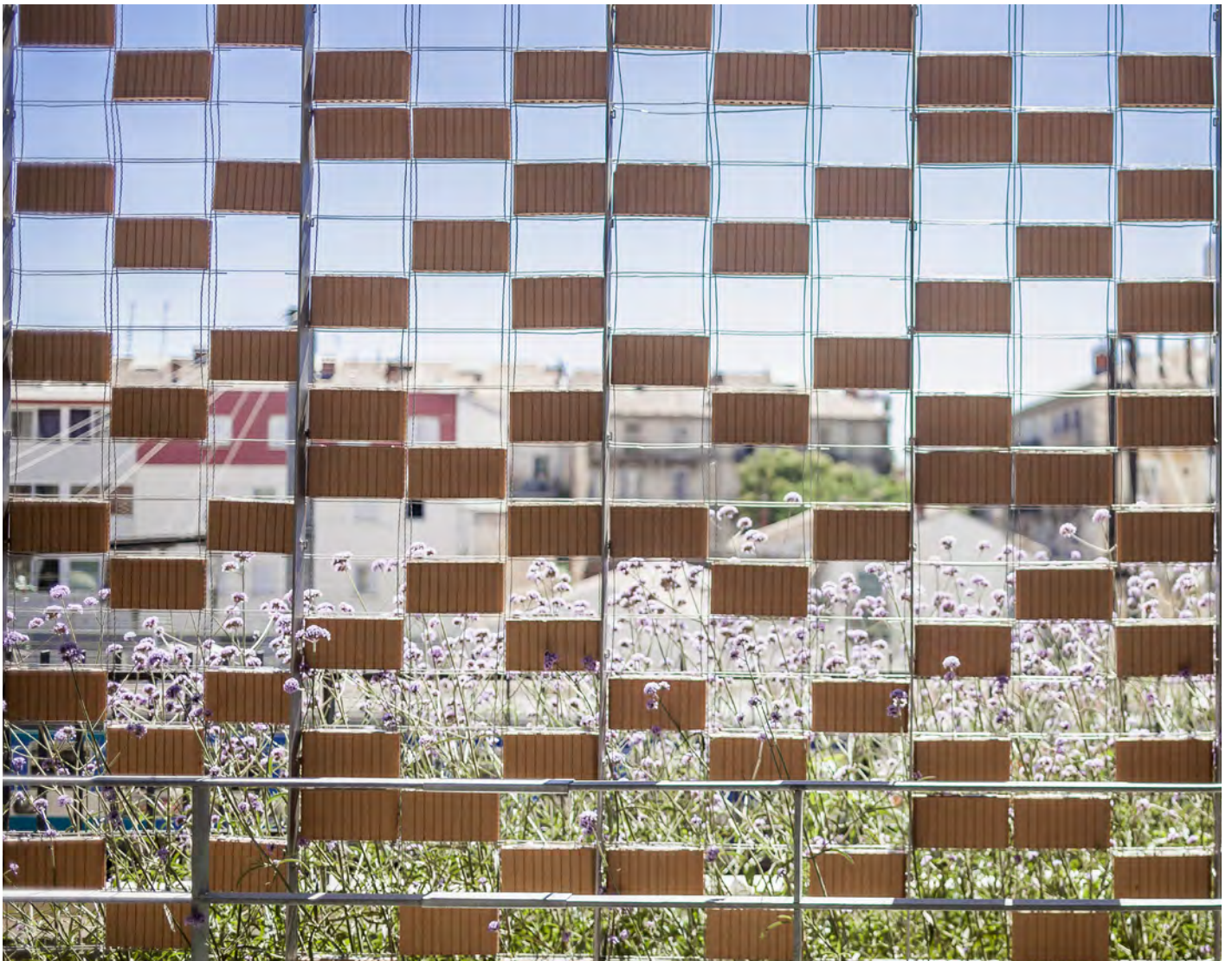


## REVERSIBLE PARKING





## THE POETRY OF PLACE





UNDER CONSTRUCTION



## ILOT BHV - OFFICES B13

Work and creation space - 4563.8m<sup>2</sup>

Bouygues Immobilier, Icade, Crédit Agricole Immobilier - Ivry-Confluences joint development zone, Ivry-sur-Seine

E+C label - Achievement of level E3C1; Biosourced Building label: Achievement of level 1,

BREEAM 'Fully fitted' 'Very Good'

5% OF THE MASS OF THE BUILDING IS MADE OF REUSABLE MATERIALS; PREFABRICATED STRUCTURE

### MIXED ISLAND: HOUSING, WORK AND CREATIVE SPACES, CO-LIVING AND ACTIVITIES HOTEL











**STRUCTURE AND SLABS IN PRECAST DECARBONISED CONCRETE**





## BHV - LOT 3B - ACTIVITIES HOTEL RIVP

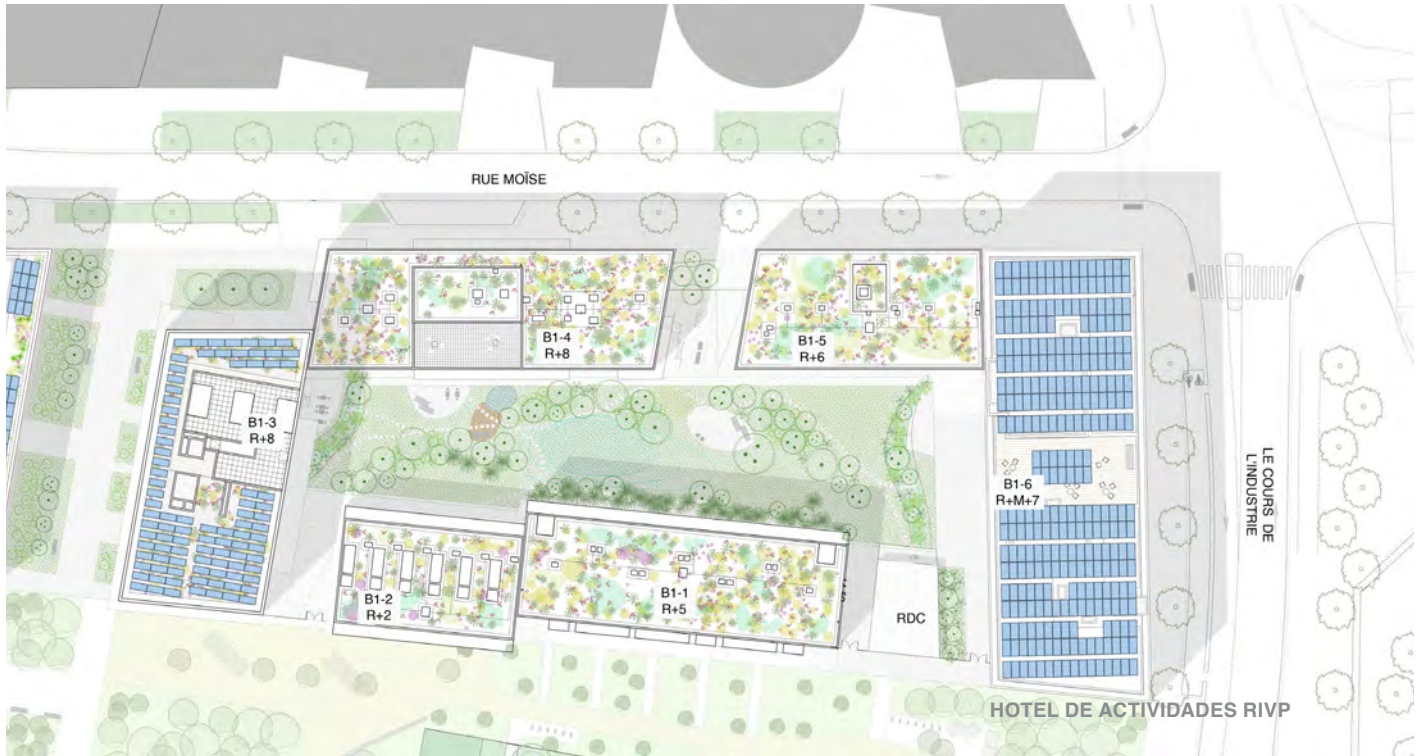
B16: Workspace and creation as a hotel of activities 7803.7m<sup>2</sup>

RIVP - ZAC Ivry-Confluences, Ivry-sur-Seine, France

E+C- label - E3C1 level; Biosourced Building label: Level 1

5% OF THE TOTAL MASS OF THE BUILDING IS REUSED; PREFABRICATED CONCRETE STRUCTURE

### MIXED ISLAND: HOUSING, WORK AND CREATIVE SPACES, CO-LIVING AND ACTIVITIES HOTEL





## STRUCTURE AND SLABS IN PRECAST DECARBONISED CONCRETE





## ACTIVE GROUND FLOORS AND SPACES FOR GETTING TOGETHER





## LOT DE3C - ZAC GARE DES ARDOINES

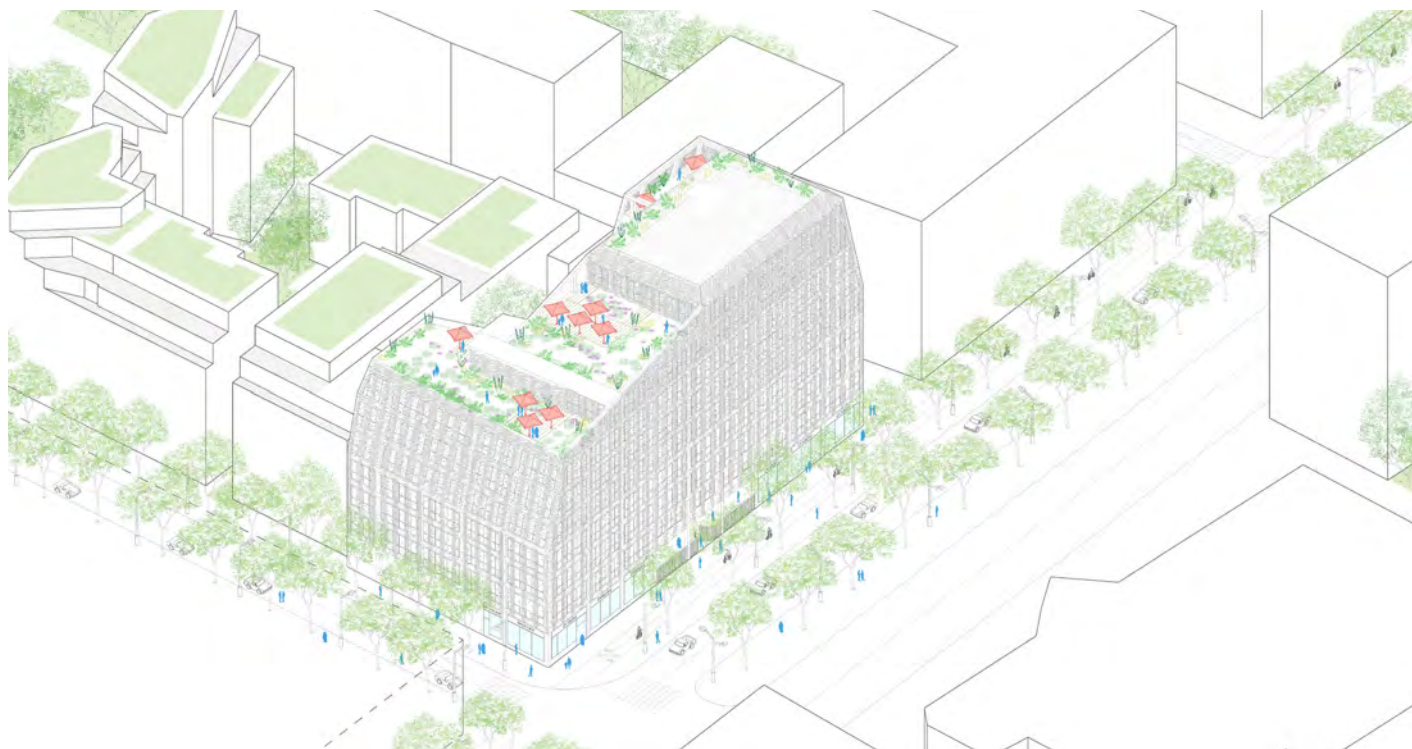
Workspace and creative space, shops and car park, - 8611m2 SDP

Lamotte - Vitry-sur-Seine, France

HQE Sustainable Building 2016: High Performance Level; BREEAM 2016: Very Good Level; Bio-based Label: Level 1; OZMOZ

PREFABRICATED CONCRETE STRUCTURE AND PARTLY WOODEN FLOOR SLABS

### NEW GENERATION BUILDINGS



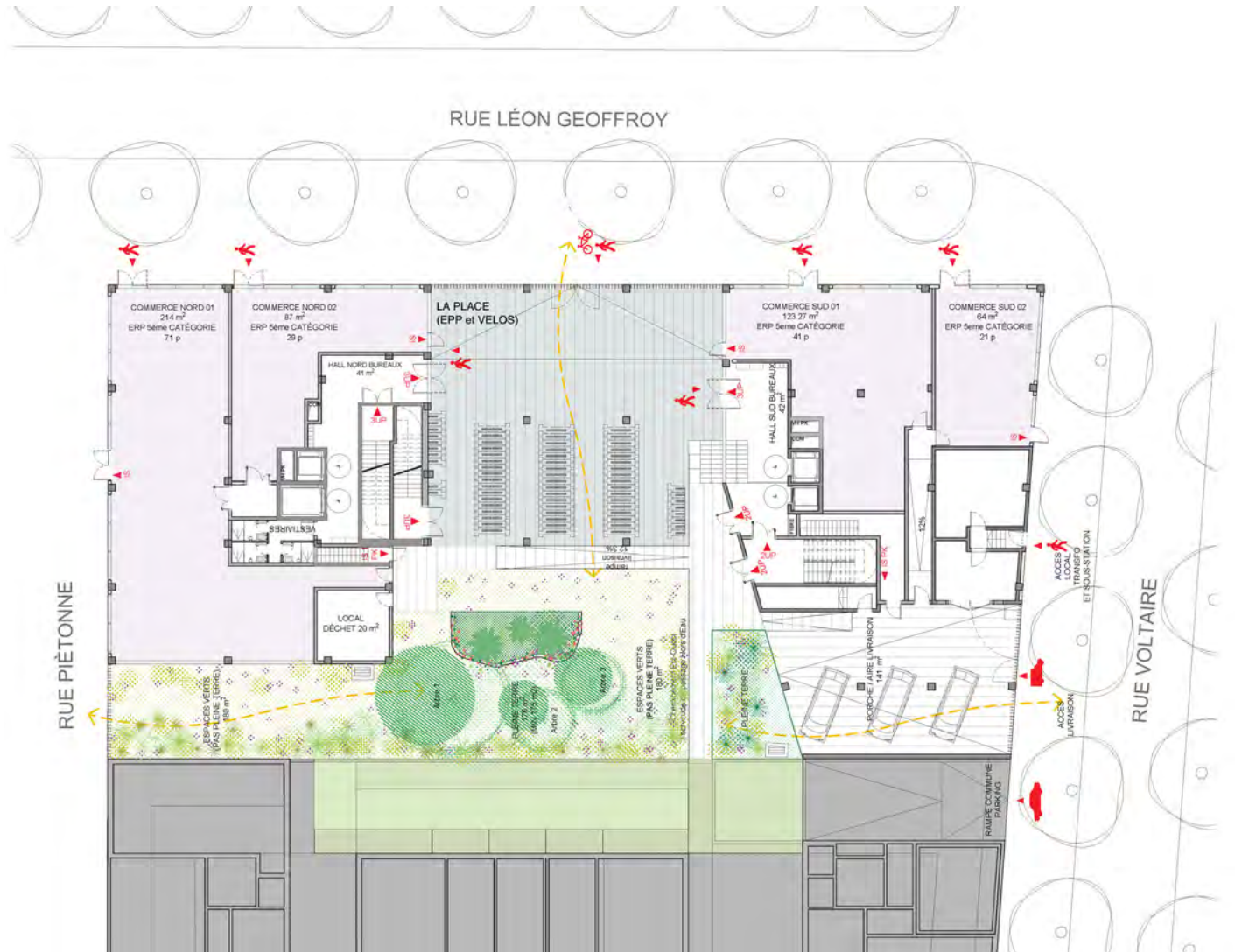


## INTELLIGENT M2



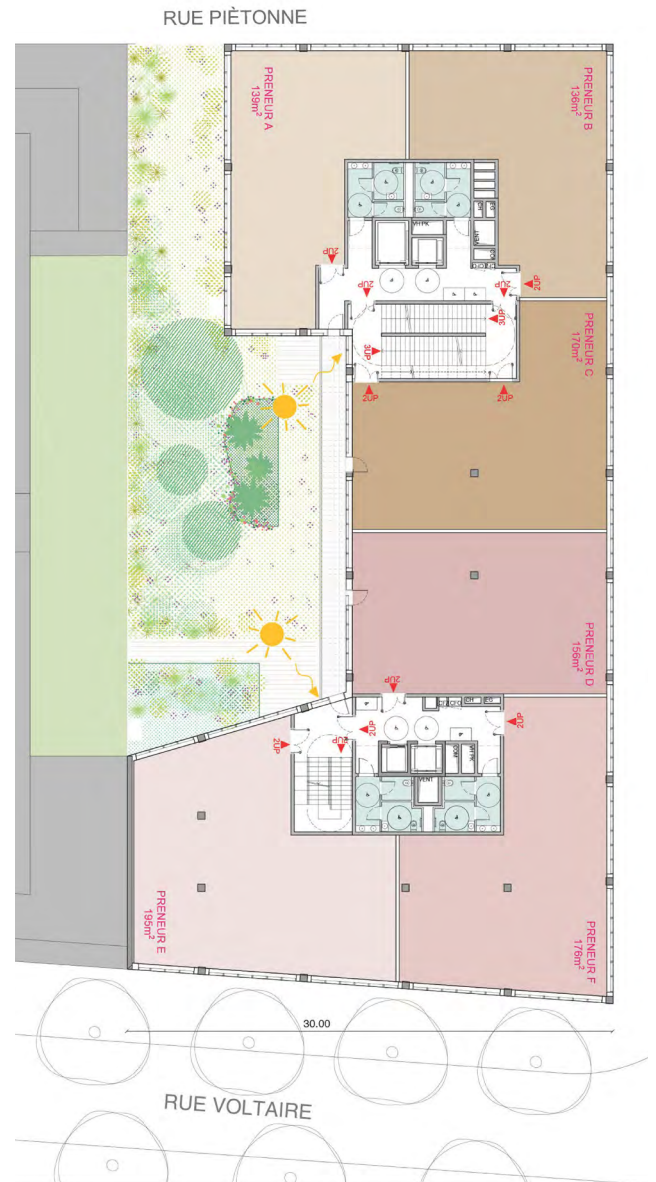
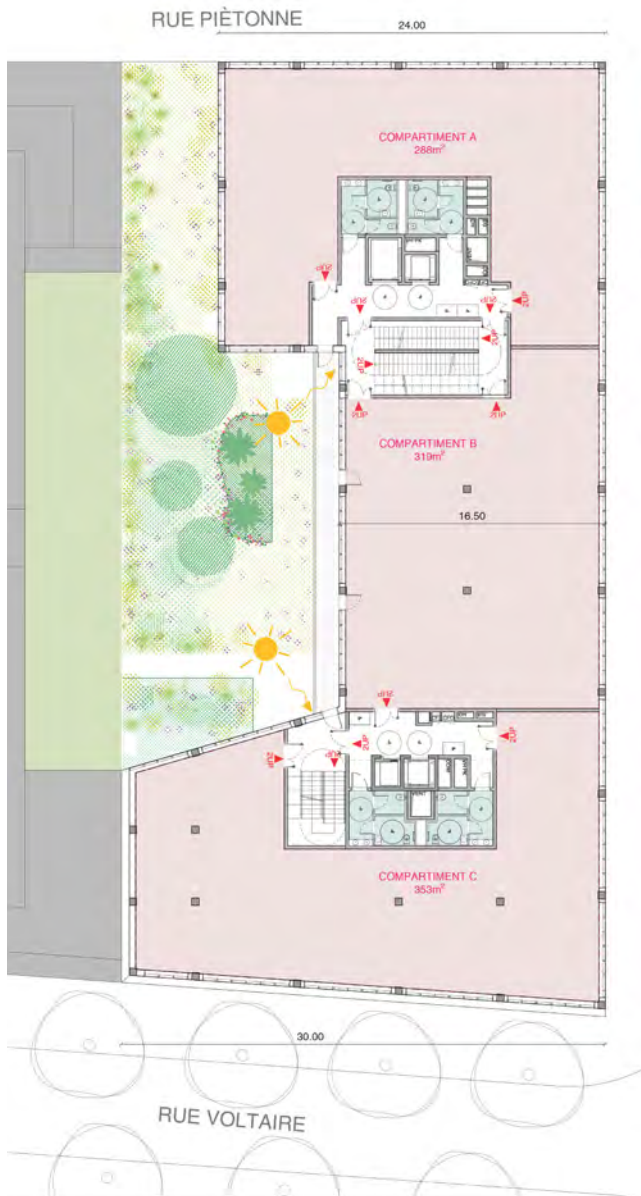


## STAGING SOFT MOBILITY



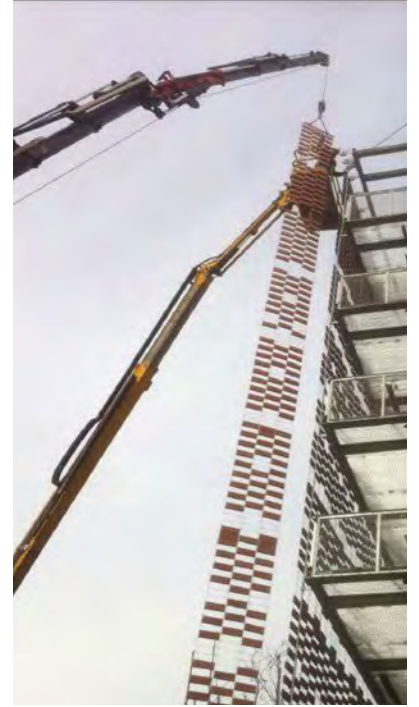
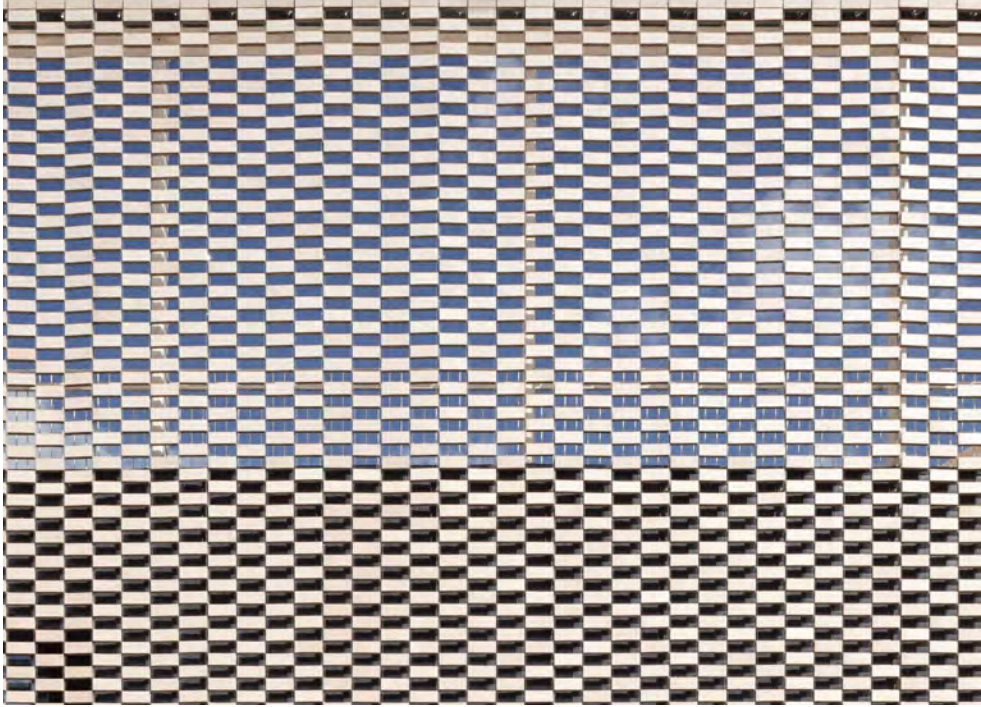


## MULTITENANT BUILDING





## INNOVATIVE FACADE: RECONFIGURABLE OVER TIME





## BHV - LOT 3D - MIXED USE

Mixed programme: Housing. Intergenerational residence and hostel with a range of activities.

Base: Work and creative space, events space, shop and bicycle workshop - 10,398.8m<sup>2</sup> SDP

Bouygues Immobilier, Icade, Crédit Agricole Immobilier - ZAC Ivry-Confluences, Ivry-sur-Seine

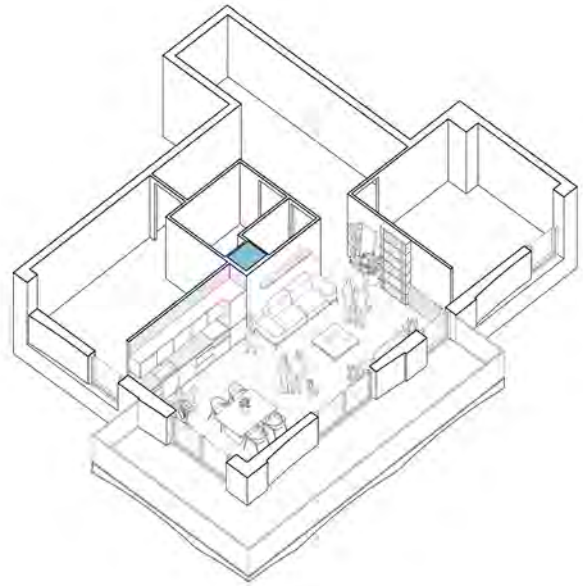
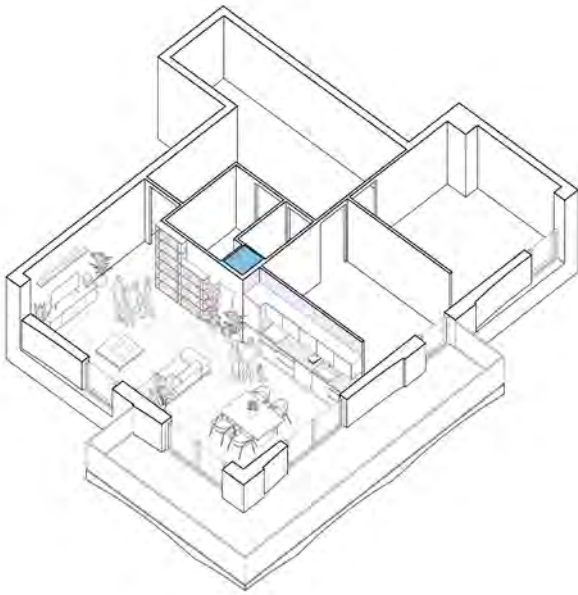
RE2020 level 2025, Label E+C- Achieved level E3C1; Biosourced Building label level 2; 5% of the total mass made with reused materials

### MIXED USE





## CONCEPT OF APPROPRIATION / CUSTOMISATION





## HIBRIDISATION OF USES





## BUILD IN A DIFFERENT WAY: HEMP CONCRETE





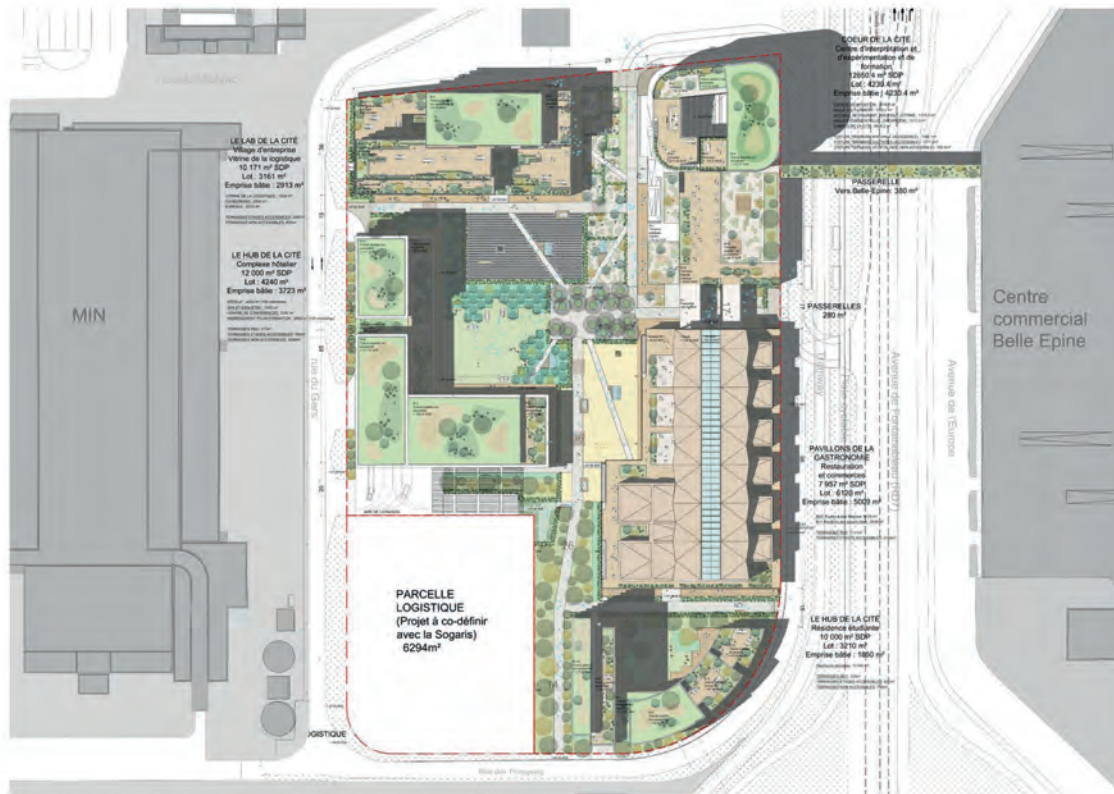
## LARGE SCALE PROJECTS



# CITÉ INTERNATIONALE DE LA GASTRONOMIE

Mixed programme: campus for students and gastronomy professionals, museum, immersive workshops and educational gardens HUB with a 4\*\*\*\* hotel, convention centre and spa, Halle Gourmande for events, work and creative spaces, agro-food greenhouse, urban agriculture 12,000 m<sup>2</sup> planted - 53,000 m<sup>2</sup> GFA  
 With Mimram Architecture and MGAU (coordinators) - Pitch Immo, Hibrid et Gaïa Prmition - Rungis, France  
 BREAM certification, HQE level Excellent - Biosourced, BBKA, RE2020 threshold 2025

## CITÉ DE LA GASTRONOMIE AS A NEIGHBOURHOOD



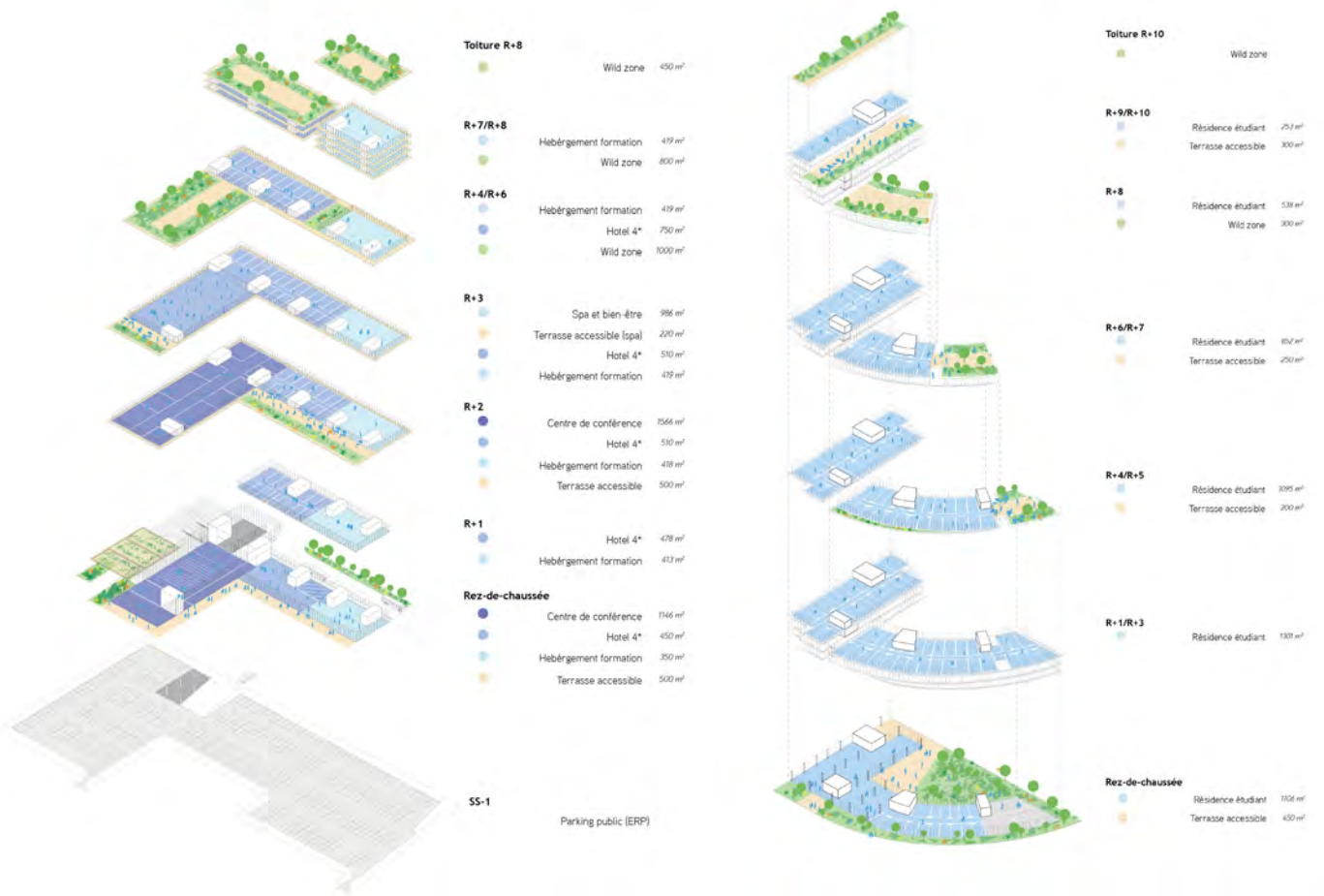


## URBAN AGRICULTURE IN THE HEART OF THE CITÉ





## THE HUB AND THE CAMPUS





## ZAC RÉPUBLIQUE - LOT I

Social and private housing, offices, urban logistics centre... 18,720m<sup>2</sup>  
With Samantha Dugay Architectes and FMA - Les Nouveaux Constructeurs, TDS promotion - Montpellier, France  
RE2020 threshold 2025, BDO Silver, Effinature certification, BREEAM Very Good

### ISLAND OF FRESHNESS





## BUILDING IN A DIFFERENT WAY



### LES SOLUTIONS FEHR X MATERRUP

#### PRÉCOFFRÉ® CLASSIQUE

Type de béton : Béton d'argile MCC1®

**22,2**

kg éq. CO<sub>2</sub>/m<sup>2</sup>  
Ciment Materrup  
MCC1®

**40,2**

kg éq. CO<sub>2</sub>/m<sup>2</sup>  
Ciment conventionnel  
CEM I

#### PRÉCOFFRÉ® THERMIQUE

Type de béton : Béton d'argile MCC1®

**40,4**

kg éq. CO<sub>2</sub>/m<sup>2</sup>  
Ciment Materrup  
MCC1®  
Pour un R=5m<sup>2</sup>K/W  
avec isolant traditionnel

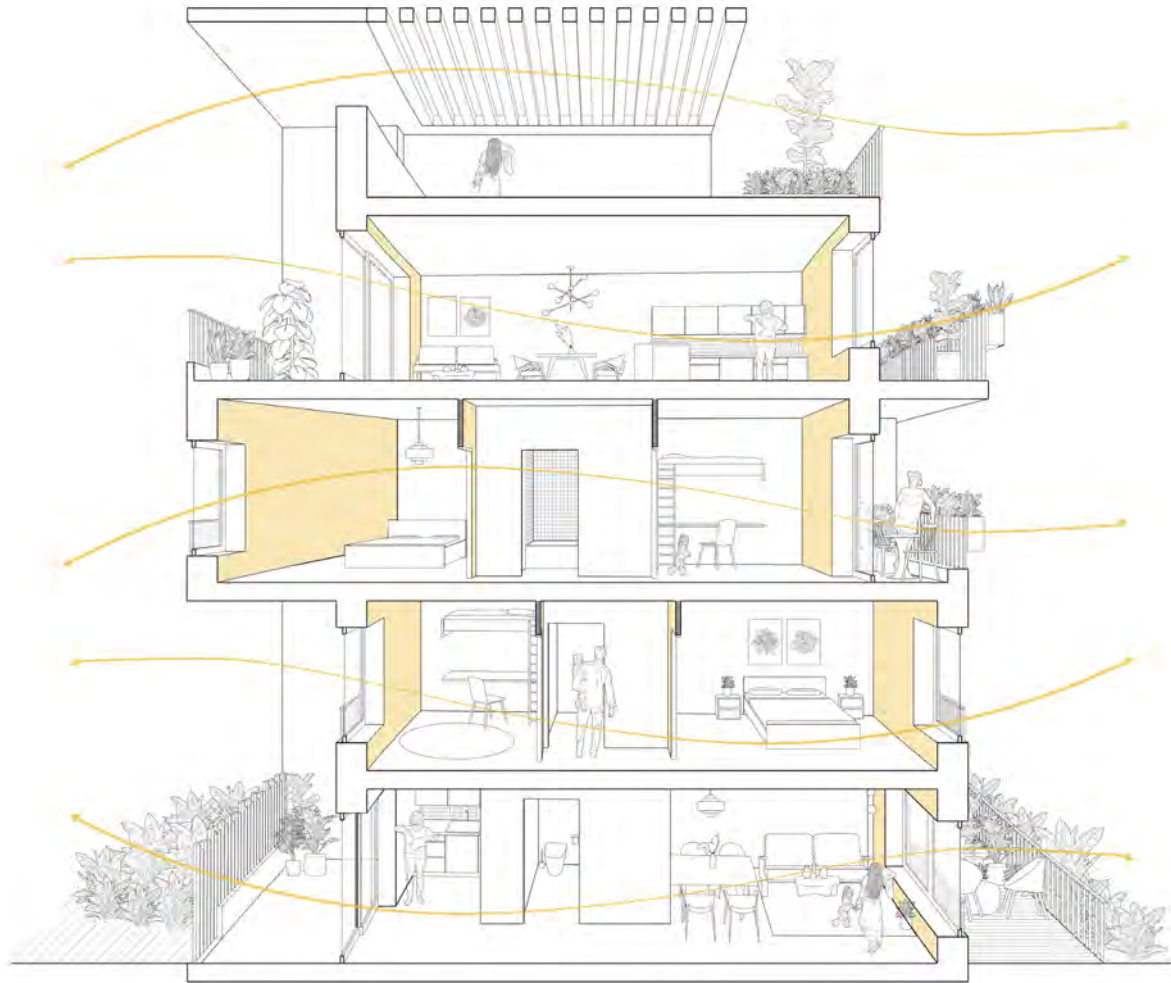
**71,2**

kg éq. CO<sub>2</sub>/m<sup>2</sup>  
Ciment conventionnel  
CEM I





## 87% CROSS VENTILATION DWELLINGS





## SOCIAL HOUSING





## SEA TERMINAL : ROYAL CARIBBEAN

Construction project for the Royal Caribbean company in Barcelona: maritime passenger terminal on the Muelle Adosado quay in the Port of Barcelona (16,590m<sup>2</sup>), intermodal area with common areas and parking for buses, taxis and private vehicles (49,975m<sup>2</sup>), and manoeuvring, loading and unloading area connecting with the cruise ships (13,500m<sup>2</sup>).

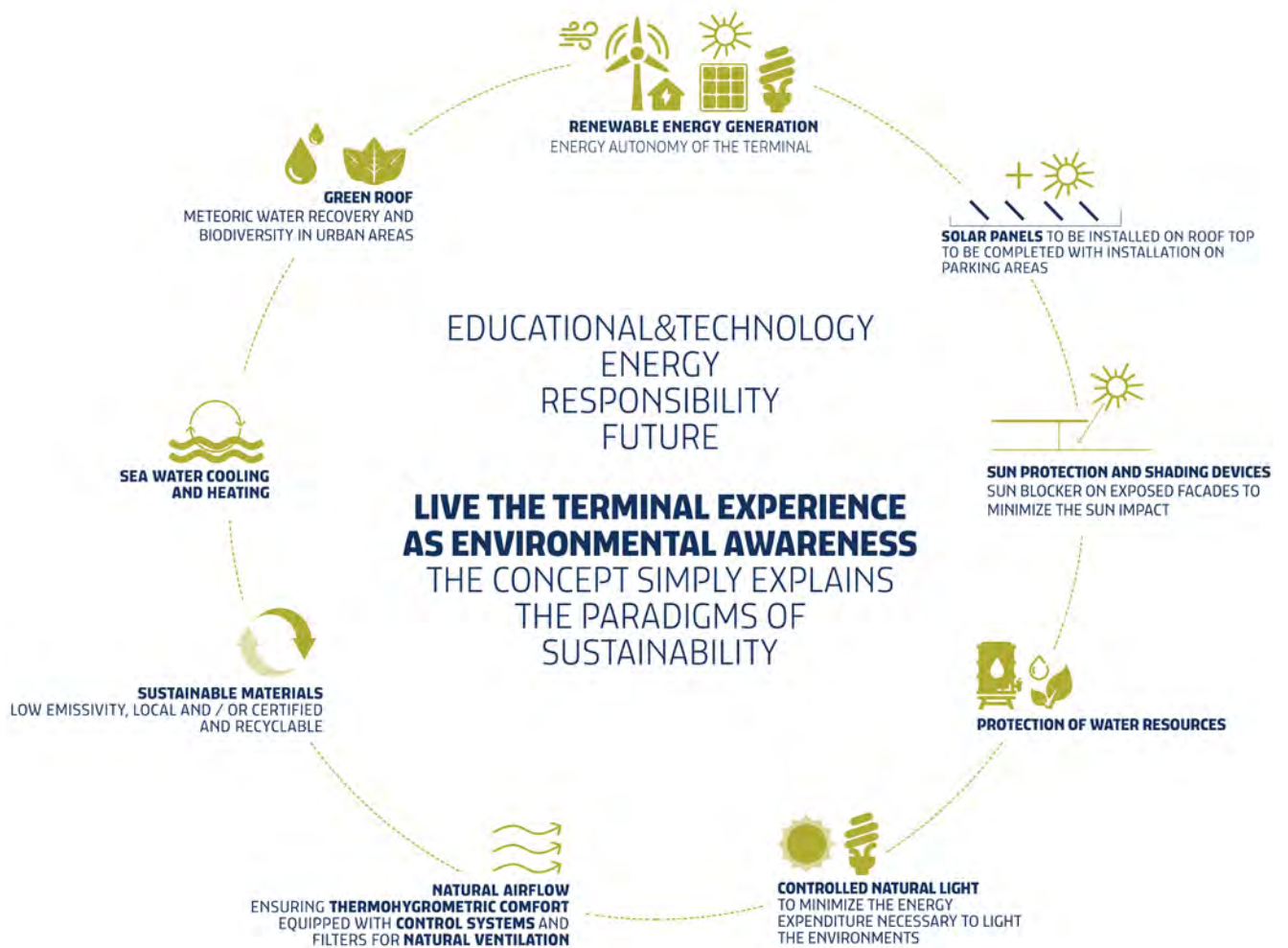
Sustainability labels: Leed net zero Energy - Leed Gold

Objectives: Leed Platinum - Leed net zero carbon - Leed net zero water

### ZERO EMISSIONS TERMINAL







**ZERO CARBON FOOTPRINT FOR A  
ONE PLANET LIVING INSPIRATION**





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