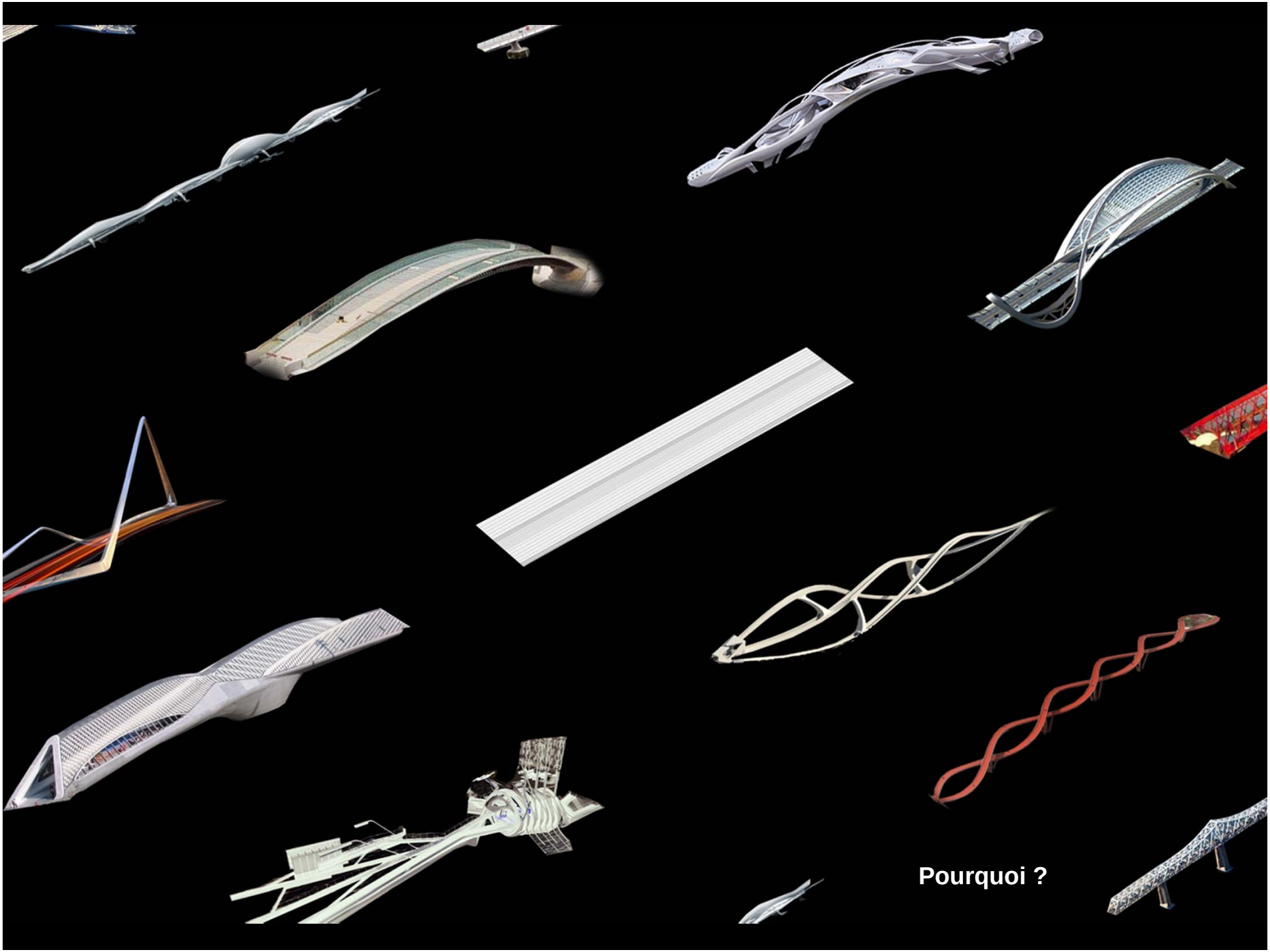
13 AVRIL 2016
Bordeaux - Pont JJ BOSC


Pourquoi ?

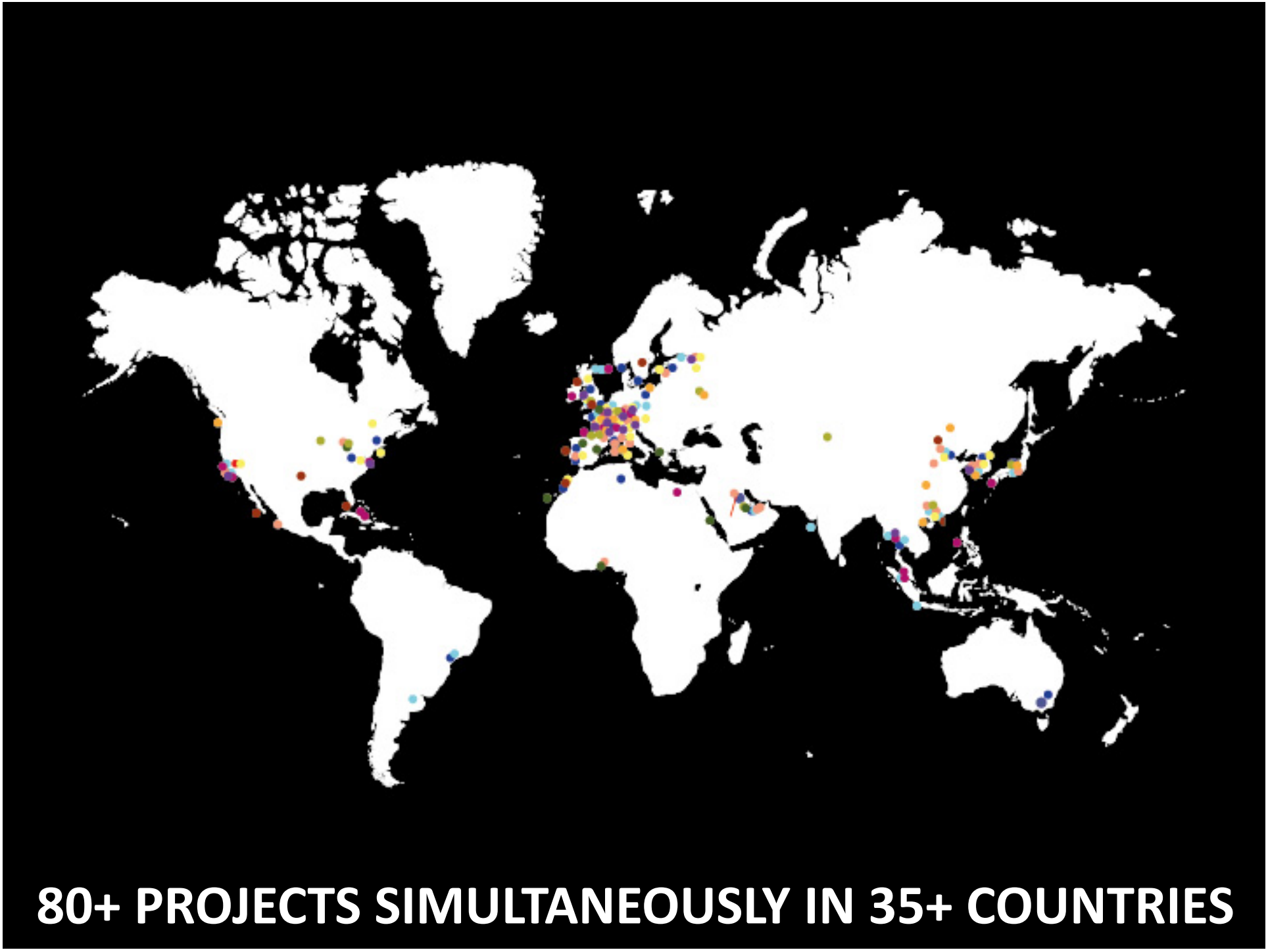

Parce que !


OFFICE FOR METROPOLITAN ARCHITECTURE
O M A



1978


OMA
ROTTERDAM
OMA
NY
OMA
BJ
OMA
HK
OMA
DOHA


80+ PROJECTS SIMULTANEOUSLY IN 35+ COUNTRIES


350 staff; 45 nationalities

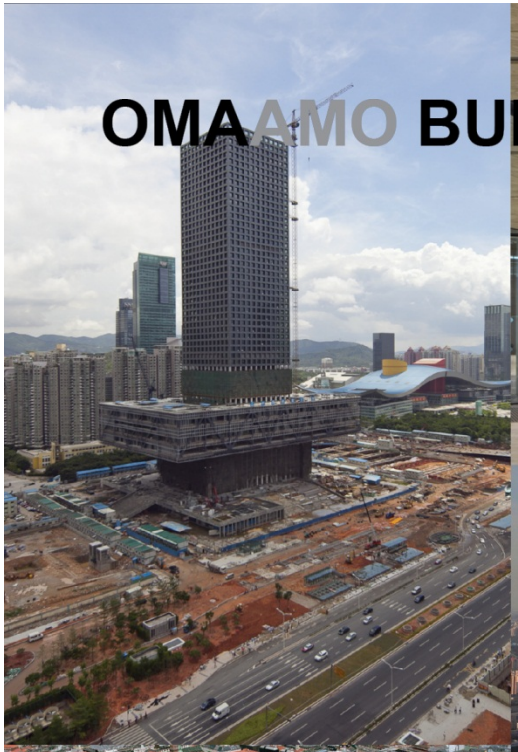


OMA AMO workforce – cross cultural collaboration





OMA AMO BUILDINGS









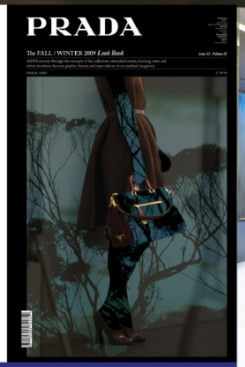


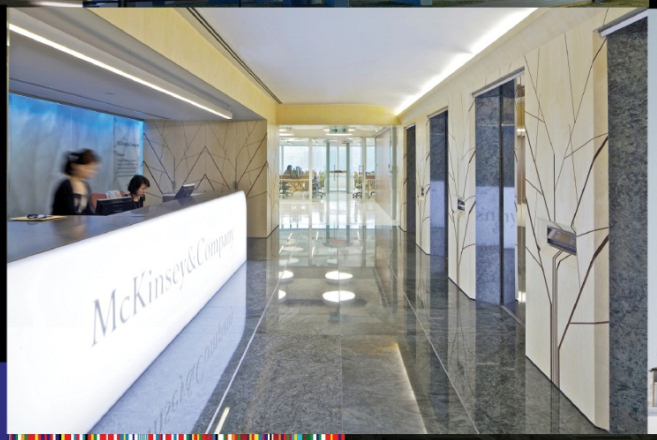
OMAAMO BRANDING

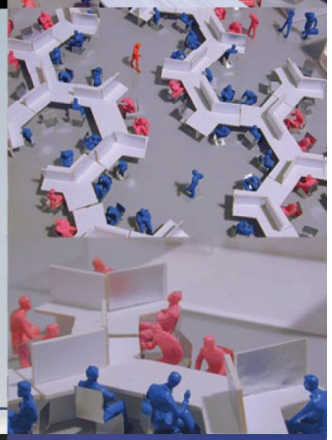


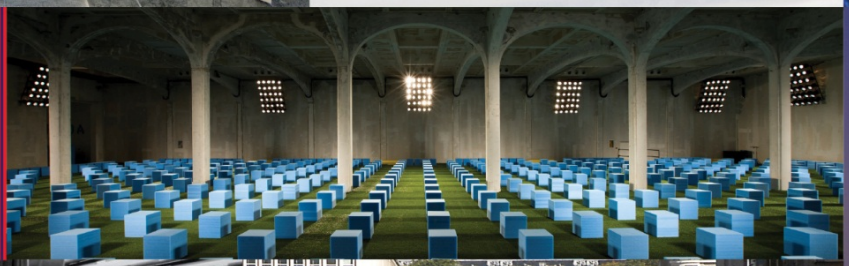




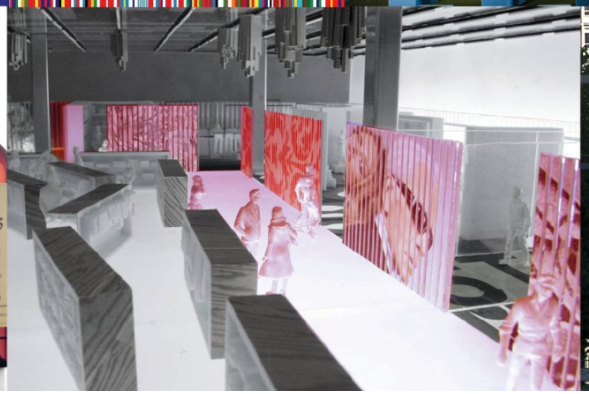




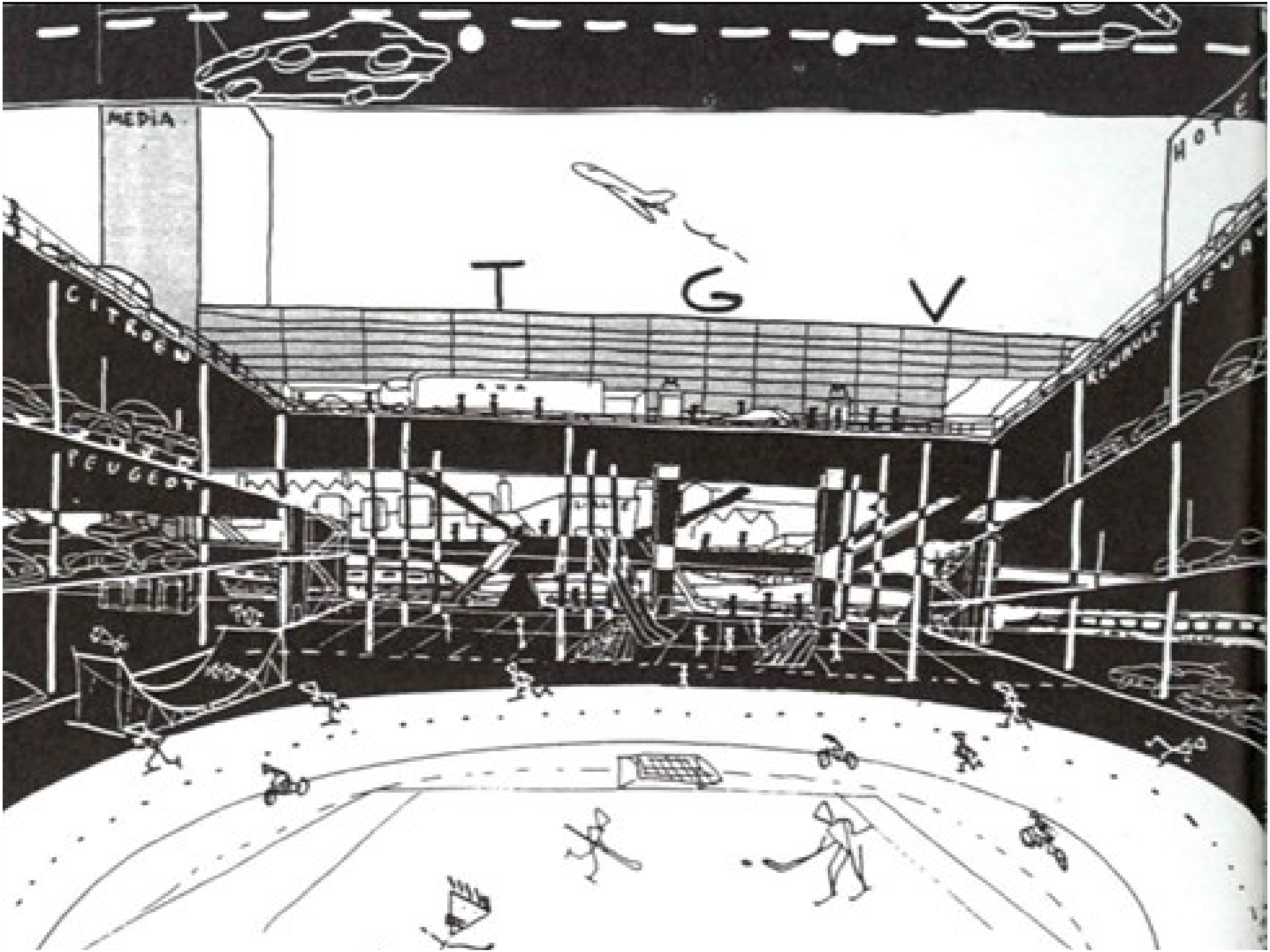





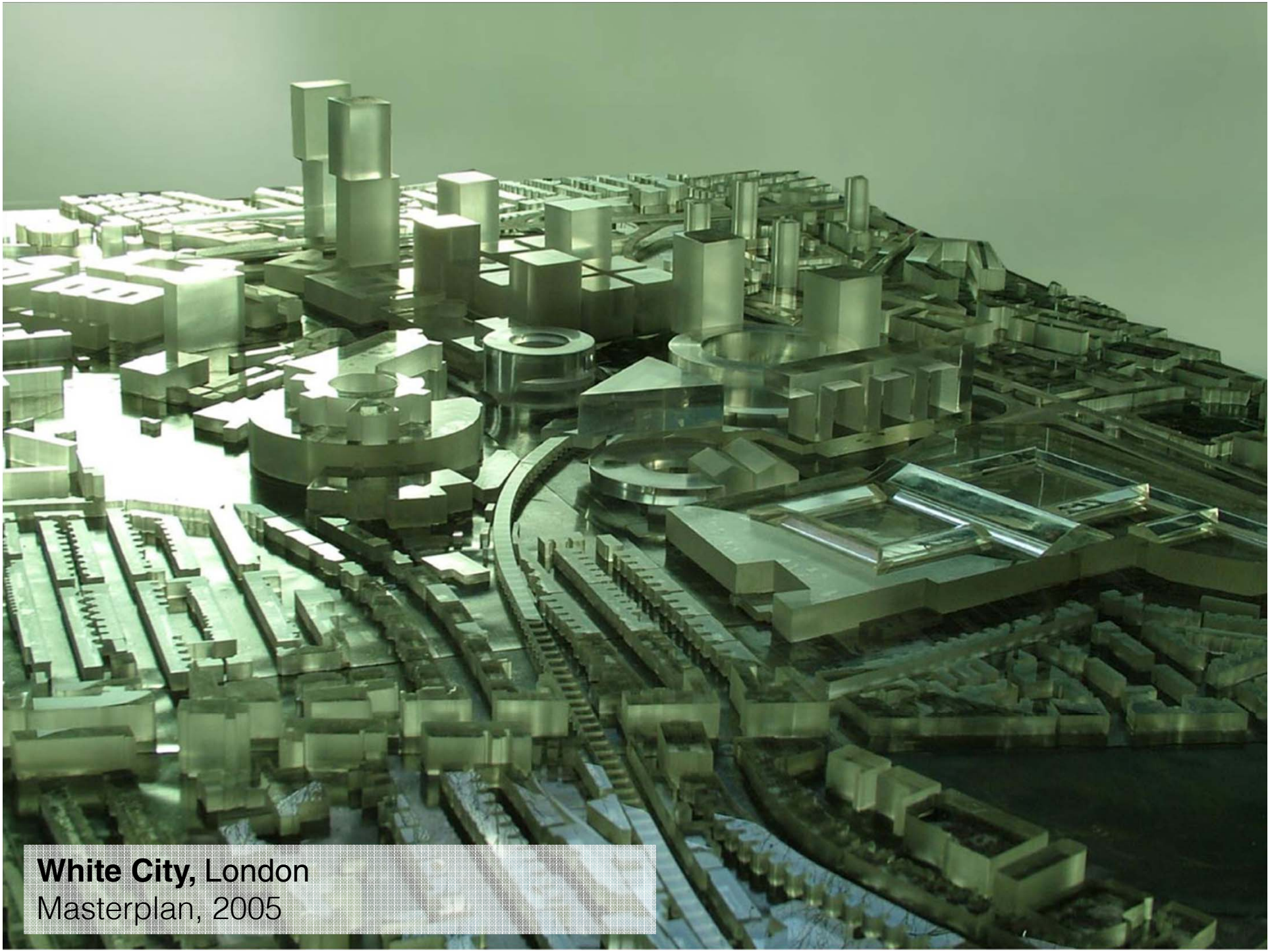




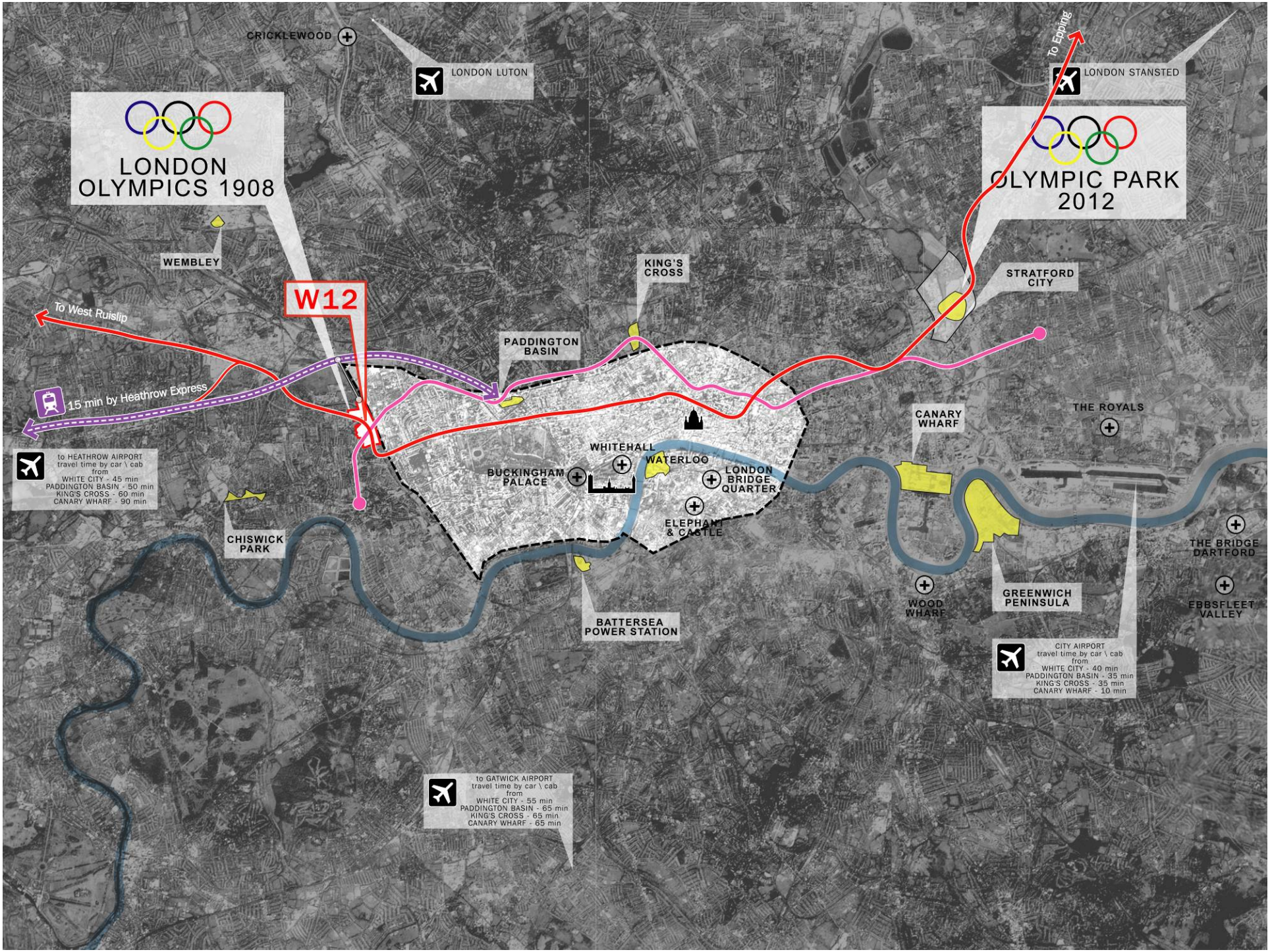

EURALILLE, Lille
Masterplan, 1994

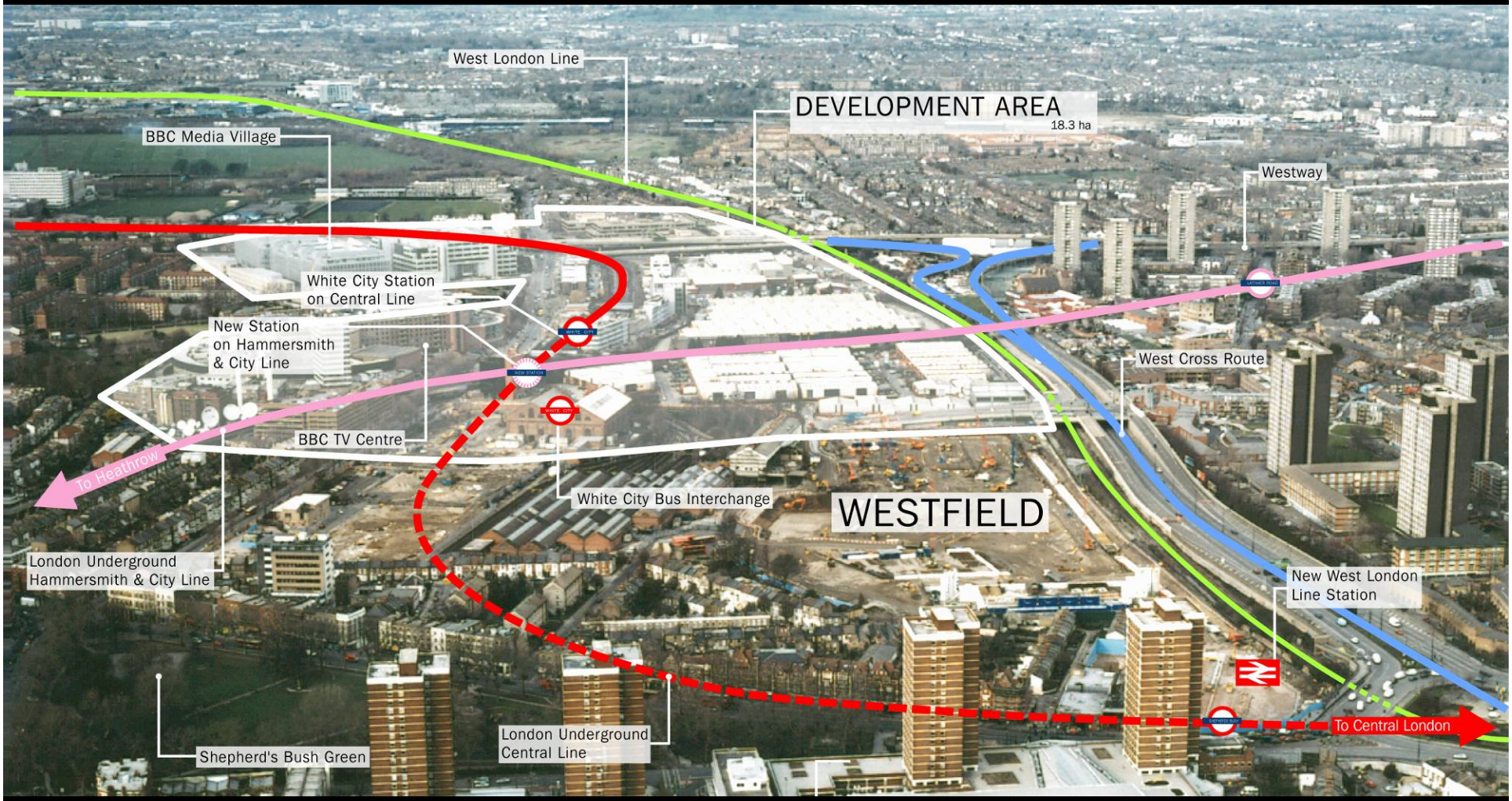

MEDIA
T G V
CITROEN
PEUGEOT

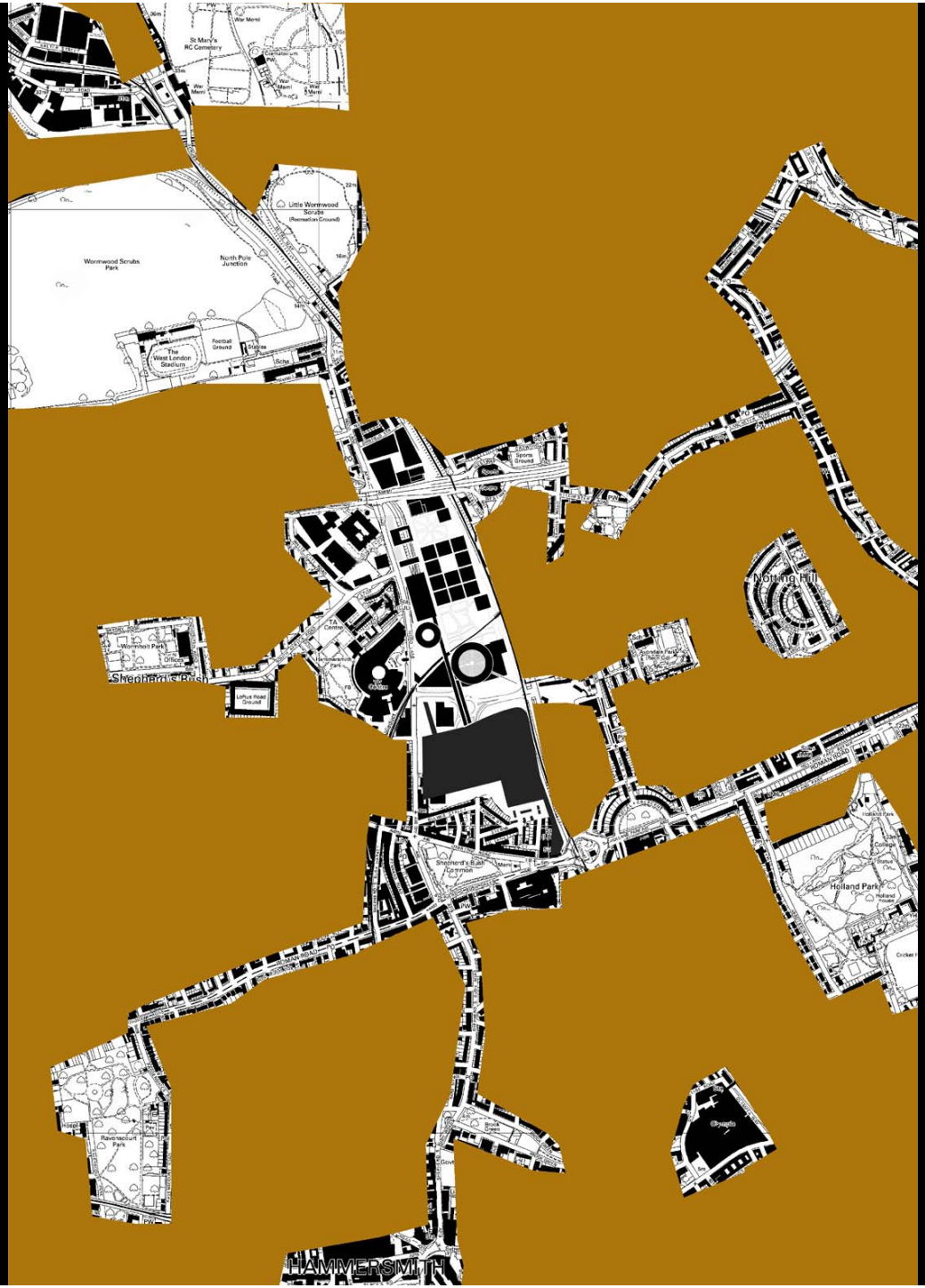

Gilles Clement
Christian de Portzamparc
Atelier Jean Nouvel
OMA
Jean-Marie Duthilleul
Vasconi and Burdèse



White City, London
Masterplan, 2005


LONDON OLYMPICS 1908
CRICKLEWOOD
LONDON LUTON
WEMBLEY
W12
To West Ruislip
15 min by Heathrow Express
to HEATHROW AIRPORT
travel time by car \ cab
from
WHITE CITY - 45 min
PADDINGTON BASIN - 50 min
KING'S CROSS - 60 min
CANARY WHARF - 90 min
CHISWICK PARK
PADDINGTON BASIN
KING'S CROSS
WHITEHALL
BUCKINGHAM PALACE
WATERLOO
LONDON BRIDGE QUARTER
ELEPHANT & CASTLE
BATTERSEA POWER STATION
to GATWICK AIRPORT
travel time by car \ cab
from
WHITE CITY - 55 min
PADDINGTON BASIN - 65 min
KING'S CROSS - 65 min
CANARY WHARF - 65 min
To Epping
LONDON STANSTED
OLYMPIC PARK 2012
STRATFORD CITY
CANARY WHARF
THE ROYALS
WOOD WHARF
GREENWICH PENINSULA
THE BRIDGE DARTFORD
EBBSFLEET VALLEY
CITY AIRPORT
travel time by car \ cab
from
WHITE CITY - 40 min
PADDINGTON BASIN - 35 min
KING'S CROSS - 35 min
CANARY WHARF - 10 min


West London Line
DEVELOPMENT AREA
18.3 ha
BBC Media Village
Westway
White City Station
on Central Line
New Station
on Hammersmith
& City Line
West Cross Route
BBC TV Centre
To Heathrow
White City Bus Interchange
WESTFIELD
London Underground
Hammersmith & City Line
New West London
Line Station
To Central London
Shepherd's Bush Green
London Underground
Central Line

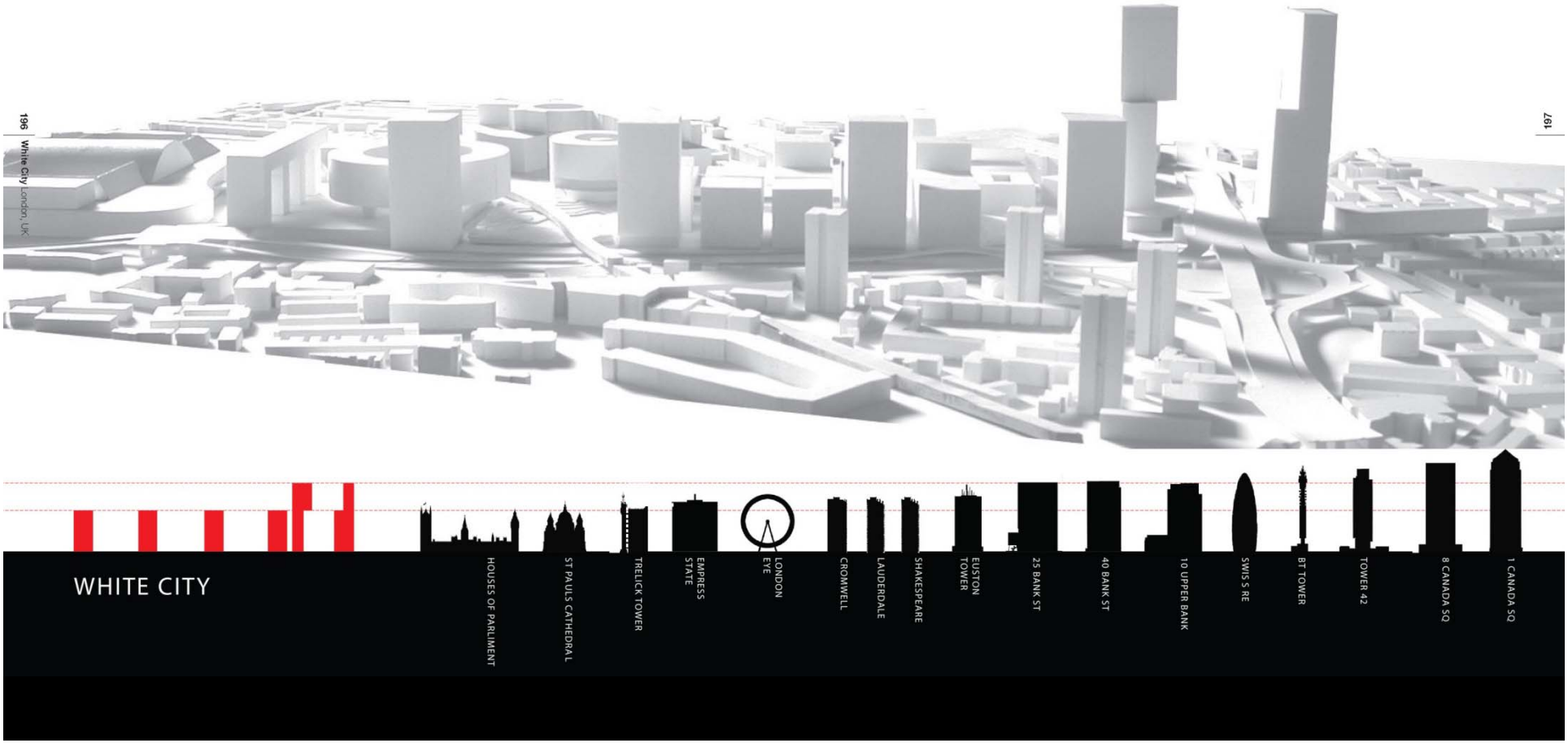

St Mary's RC Cemetery
War Memorial
Little Wormwood Scrubs (Recreation Ground)
Wormwood Scrubs Park
North Pole Junction
Football Ground
The West London Stadium
Sports Ground
Notting Hill
Wormholt Park
Shepherd's Bush
Loftus Road Ground
Shepherd's Bush Common
Holland Park
Ravenscourt Park
HAMMERSMITH



“ The only way is up “

To achieve both high density and open space of high quality and sufficient extent, high-rise buildings become necessary. The London skyline has become an accumulation of interesting tower forms – each tower trying to out do the next. Instead of competing with formal iterations, W12 uses the repetition of a simple shape to create an iconic skyline along the West Cross Route.

The row of five towers, the fifth integrated with the icon towers either side of the A40, link all the clusters and open spaces together. The highrises are located so that their mass can help shield the remainder of the site. These towers are approximately half the height of many London buildings such as the Swiss Re and the majority of Canary Wharf, and shorter than other nearby towers such as the Empress State and Trellick Tower.







DE ROTTERDAM, Rotterdam
Tours, programme mixte,construit

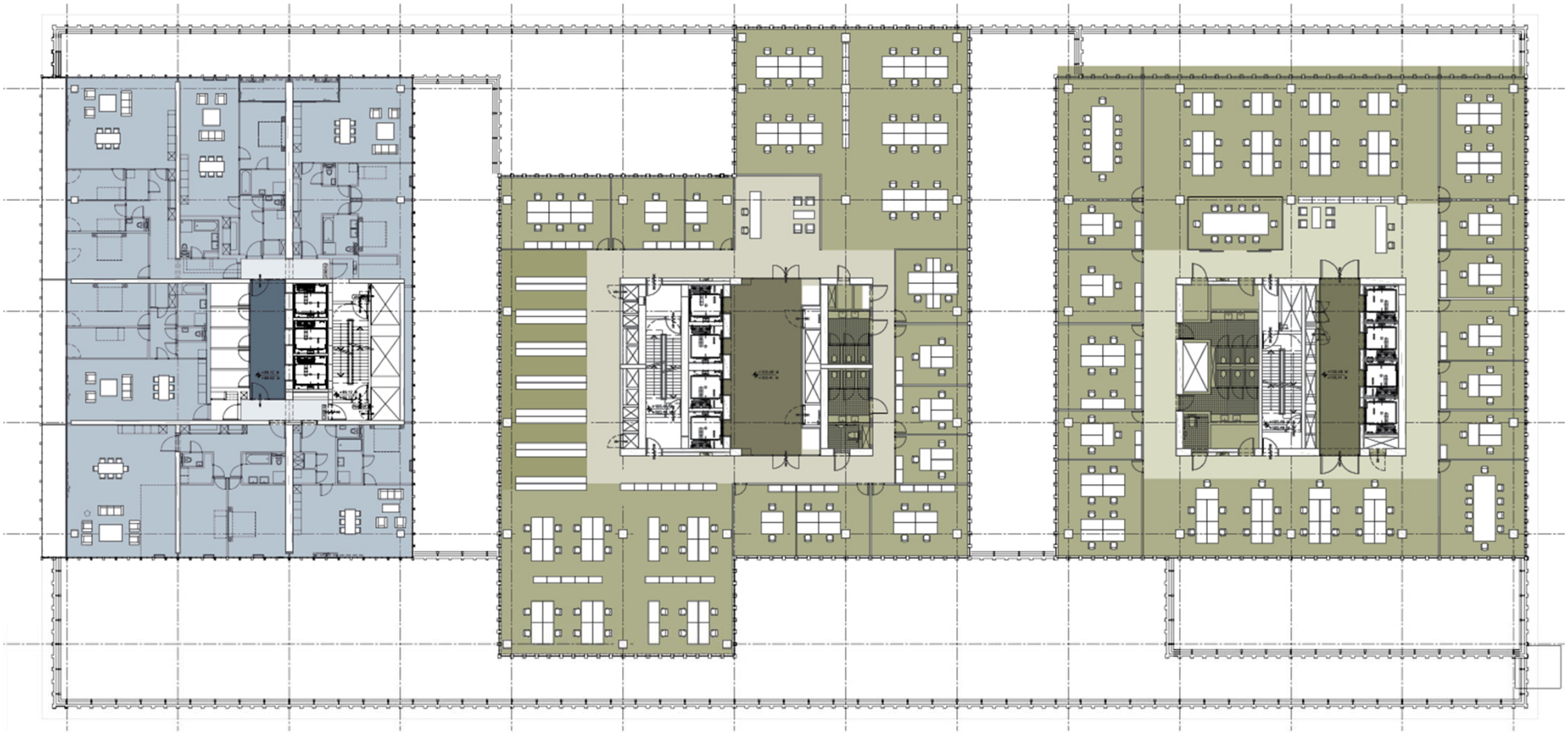

Port of Rotterdam



APARTMENT

OFFICE

OFFICE

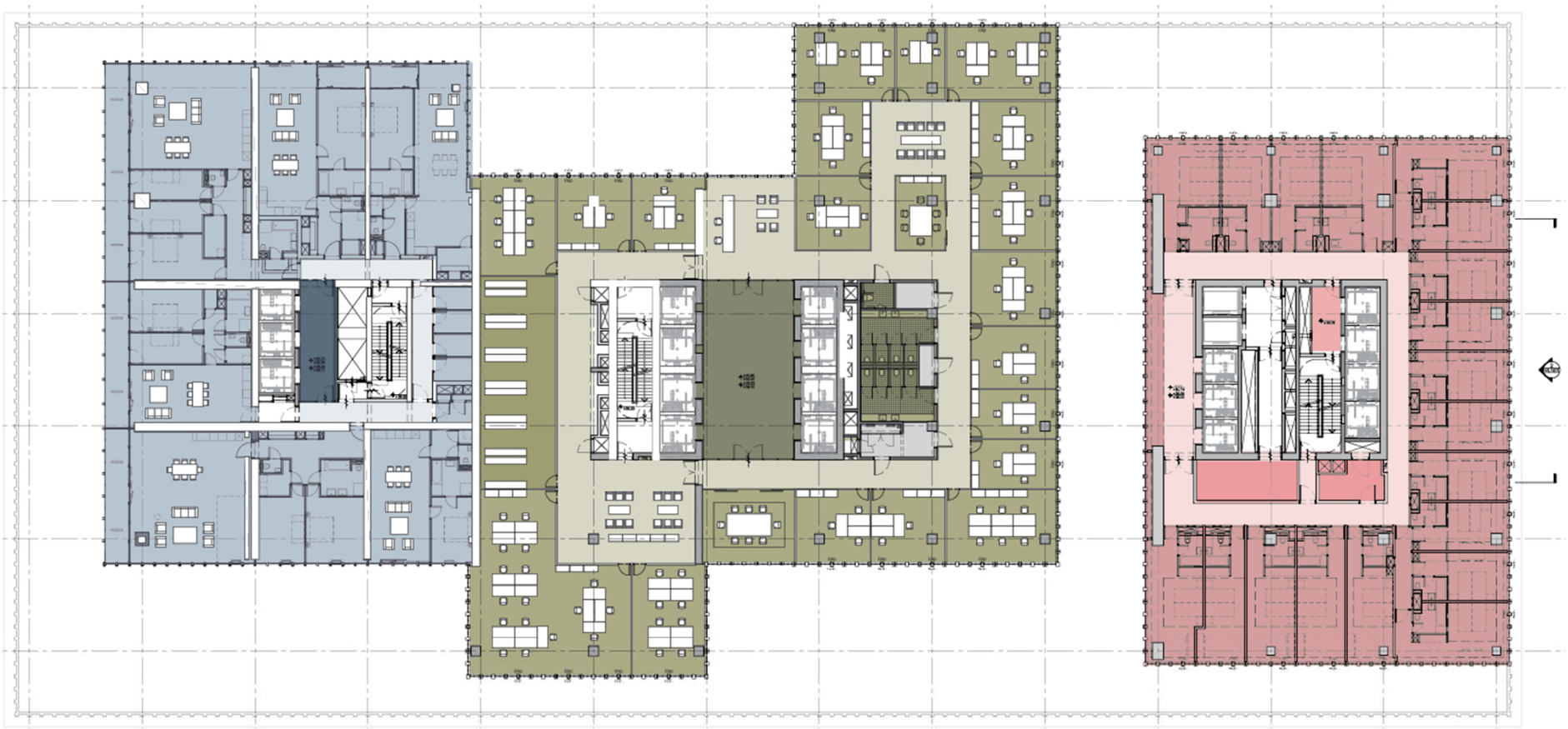


Typical High Rise Floor Plan

APARTMENT

OFFICE

HOTEL



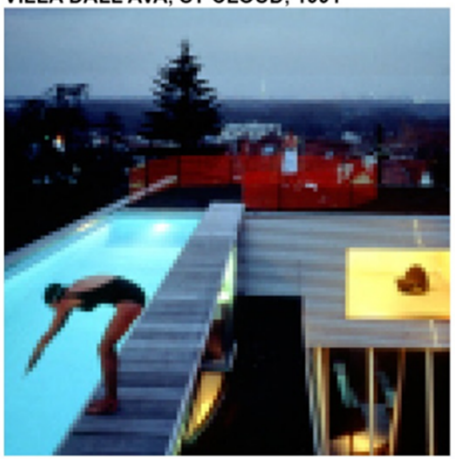
Typical Low Rise Floor Plan



EURALILLE, LILLE, 1994



VILLA DALL'AVA, ST CLOUD, 1991

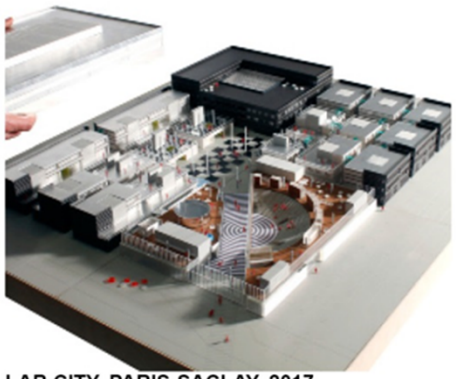


MAISON A BORDEAUX, 1991



BMVR, CAEN, 2016





LAB CITY, PARIS-SACLAY, 2017



FONDATION LAFAYETTE, PARIS, 2017



PARC DES EXPOSITIONS, TOULOUSE, 2019



PONT JJ BOSC, BORDEAUX, 2020



Réponse au concours
20 septembre 2012

Deux vainqueurs
Juin 2013

Modifications offres
Sept et nov 2013

Designation OMA
Décembre 2013

Mise au point du marché
Janvier 2014

Notification
14 février 2014

AVP, APA, PRO
2014 et 2015

DCE
Courant 2016





EQUIPE MOE

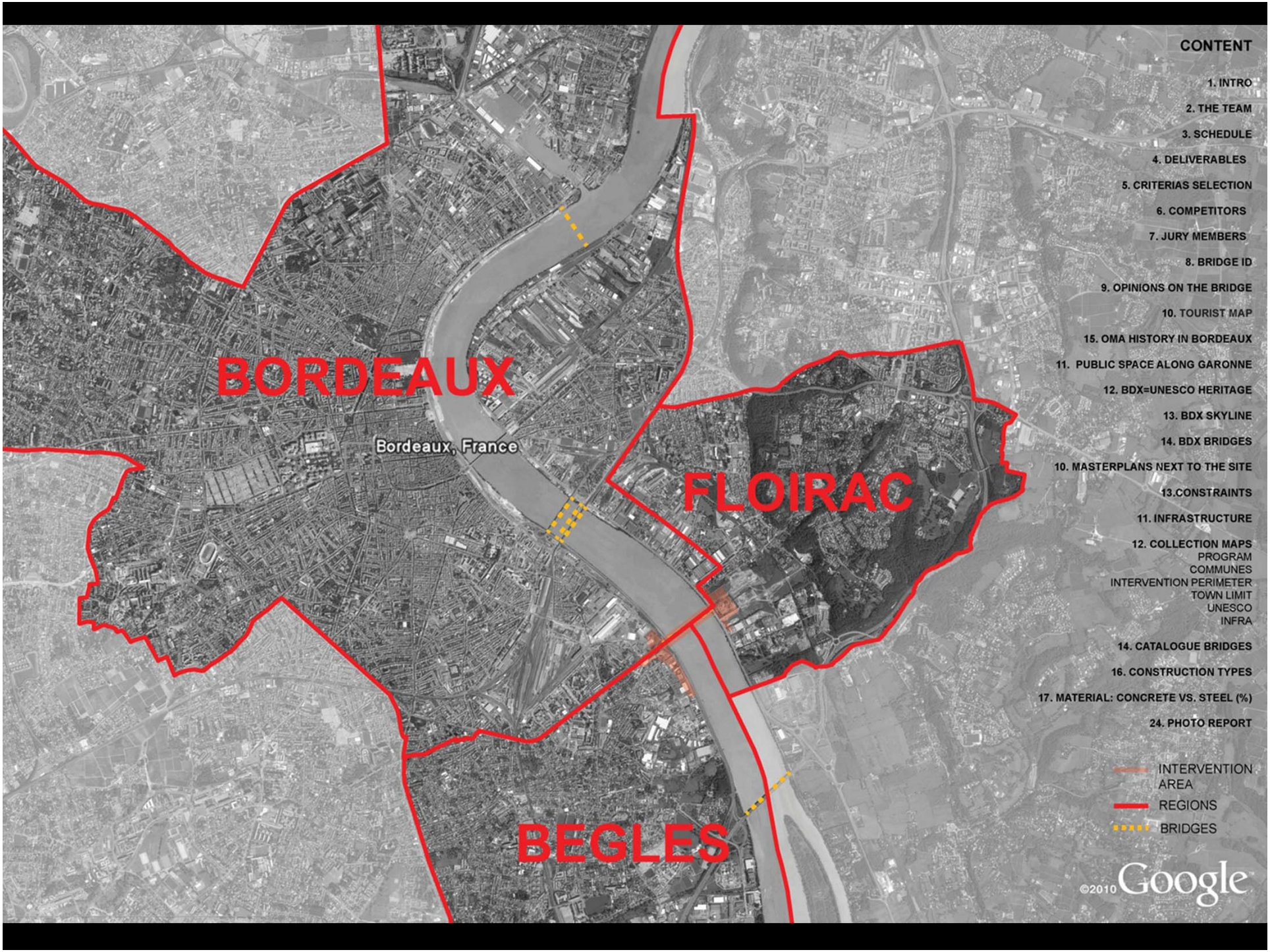
OMA – architecte mandataire
MDP – paysage
EGIS – ingénieur ouvrages et vrd
WSP – ingénieur tablier pont

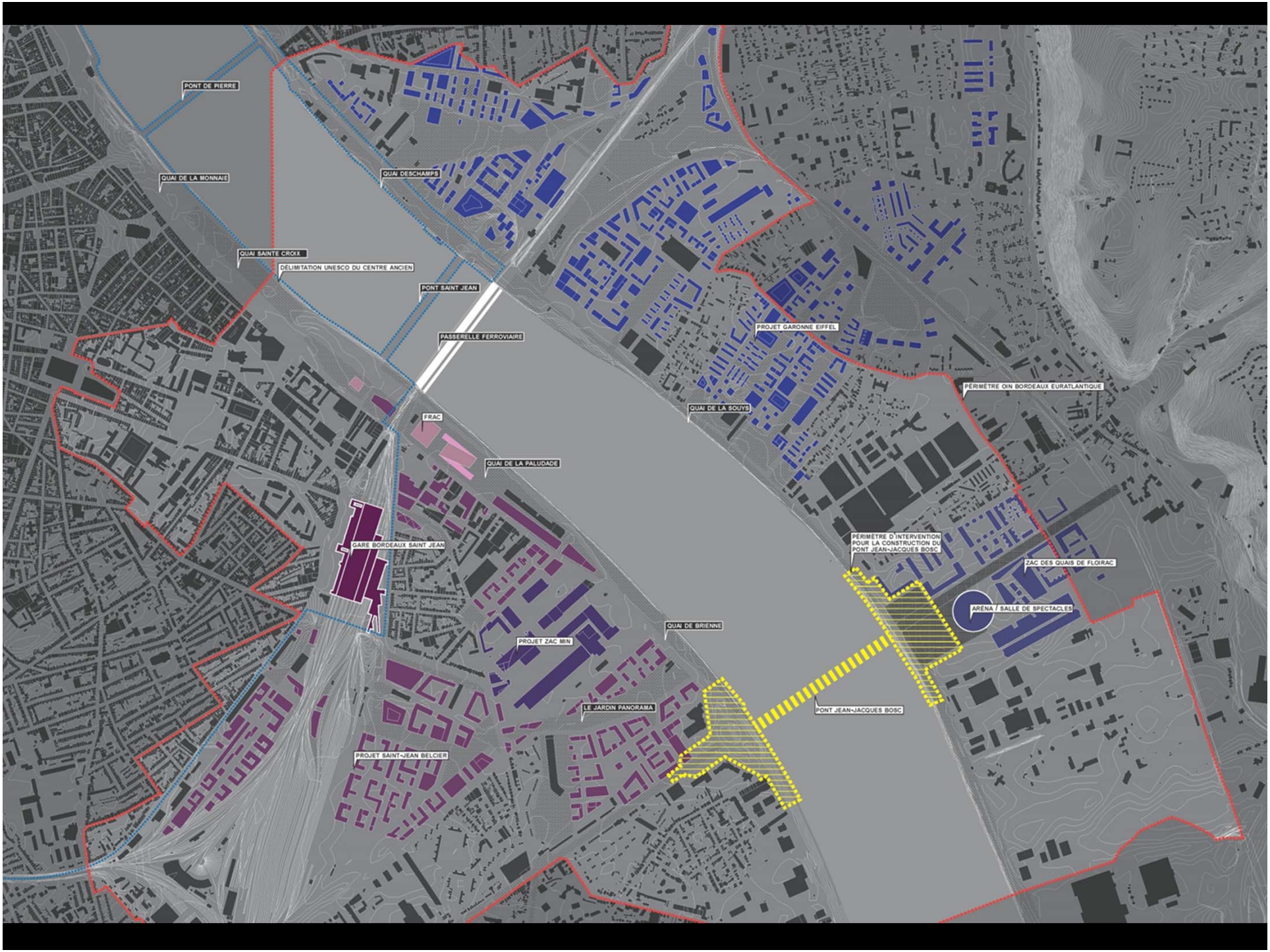
EQUIPE MOA
Bordeaux Métropole

WORDS APPEARING FREQUENTLY IN THE BRIEF




LA CUB
LA ROCADE
1
2
3
4
5
6
7
8


BORDEAUX
Bordeaux, France
FLOIRAC
BEGLES
CONTENT
1. INTRO
2. THE TEAM
3. SCHEDULE
4. DELIVERABLES
5. CRITERIAS SELECTION
6. COMPETITORS
7. JURY MEMBERS
8. BRIDGE ID
9. OPINIONS ON THE BRIDGE
10. TOURIST MAP
15. OMA HISTORY IN BORDEAUX
11. PUBLIC SPACE ALONG GARONNE
12. BDX=UNESCO HERITAGE
13. BDX SKYLINE
14. BDX BRIDGES
10. MASTERPLANS NEXT TO THE SITE
13.CONSTRAINTS
11. INFRASTRUCTURE
12. COLLECTION MAPS
PROGRAM
COMMUNES
INTERVENTION PERIMETER
TOWN LIMIT
UNESCO
INFRA
14. CATALOGUE BRIDGES
16. CONSTRUCTION TYPES
17. MATERIAL: CONCRETE VS. STEEL (%)
24. PHOTO REPORT
INTERVENTION AREA
REGIONS
BRIDGES
©2010 Google


PONT DE PIERRE
QUAI DE LA MONNAIE
QUAI DESCHAMPS
QUAI SAINTE CROIX
DÉLIMITATION UNESCO DU CENTRE ANCIEN
PONT SAINT JEAN
PASSERELLE FERROVIAIRE
PROJET GARONNE EIFFEL
PÉRIMÈTRE OIN BORDEAUX EURATLANTIQUE
QUAI DE LA SOUYS
FRAC
QUAI DE LA PALUDATE
GARE BORDEAUX SAINT JEAN
PÉRIMÈTRE D'INTERVENTION POUR LA CONSTRUCTION DU PONT JEAN-JACQUES BOSC
ZAC DES QUAIS DE FLOIRAC
ARÈNA / SALLE DE SPECTACLES
QUAI DE BRIENNE
PROJET ZAC MIN
LE JARDIN PANORAMA
PONT JEAN-JACQUES BOSC
PROJET SAINT-JEAN BELCIER




PONT BACALAN-BASTIDE 2012
PONT DE PIERRE 1821
Bordeaux, France
PONT SAINT JEAN 1965
NOUVEAU PONT FERROVIARIE 2008
PASSARELE FEROVIARIE 1860
PONT JEAN-JACQUES BOSC 2018
PONT FRANCOIS METTERRAND
1993
INTERVENTION AREA
UNESCO AREA
BRIDGES
©2010 Google





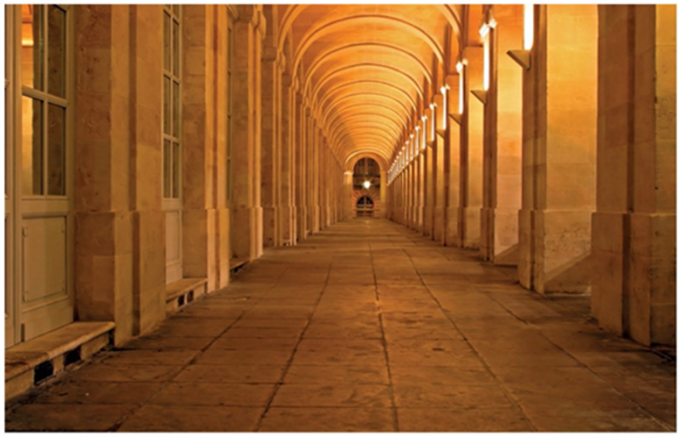


BDX ARCHES

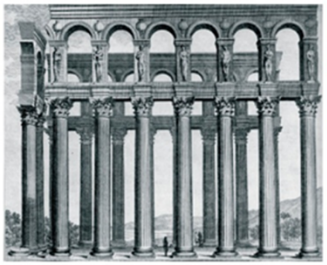








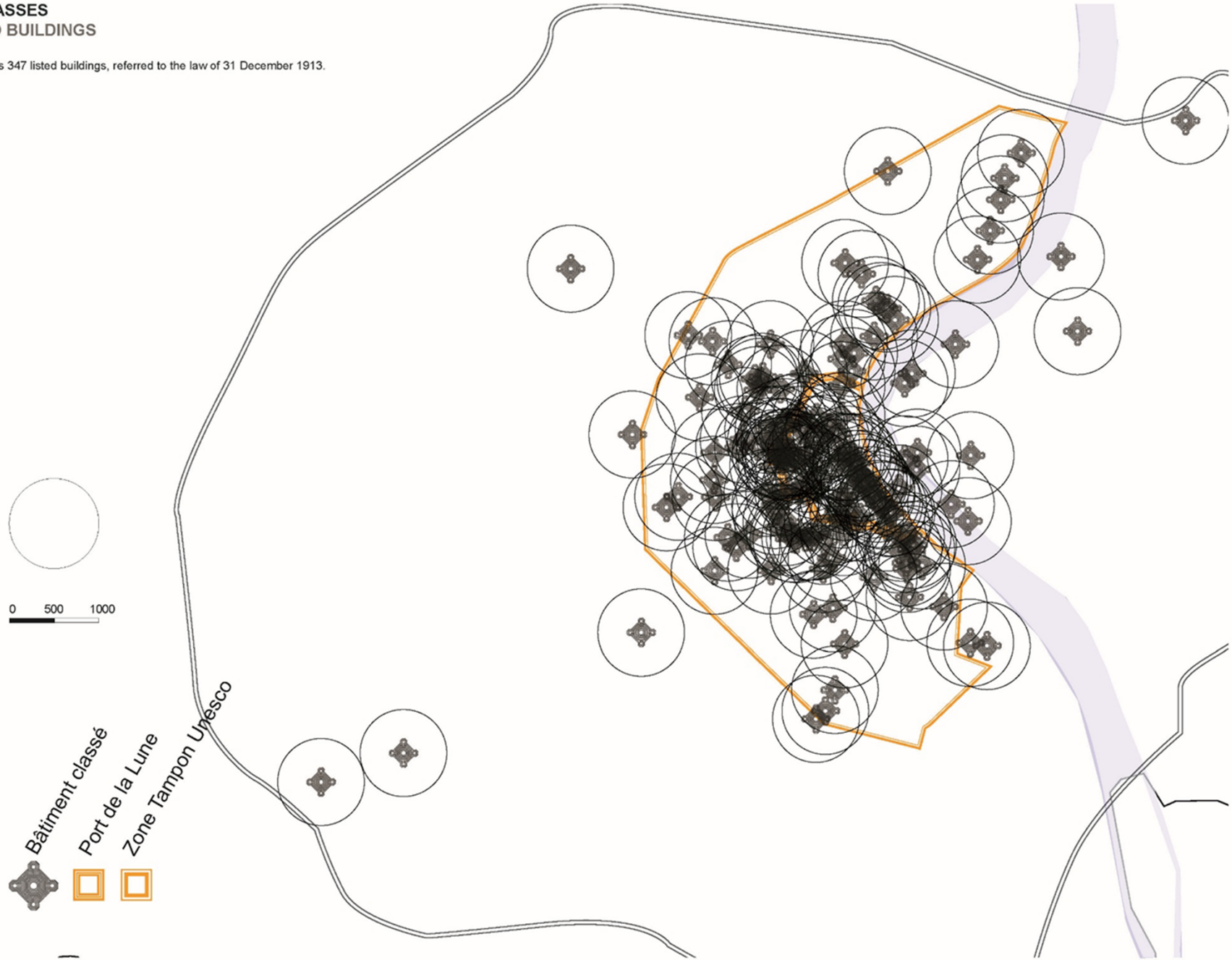




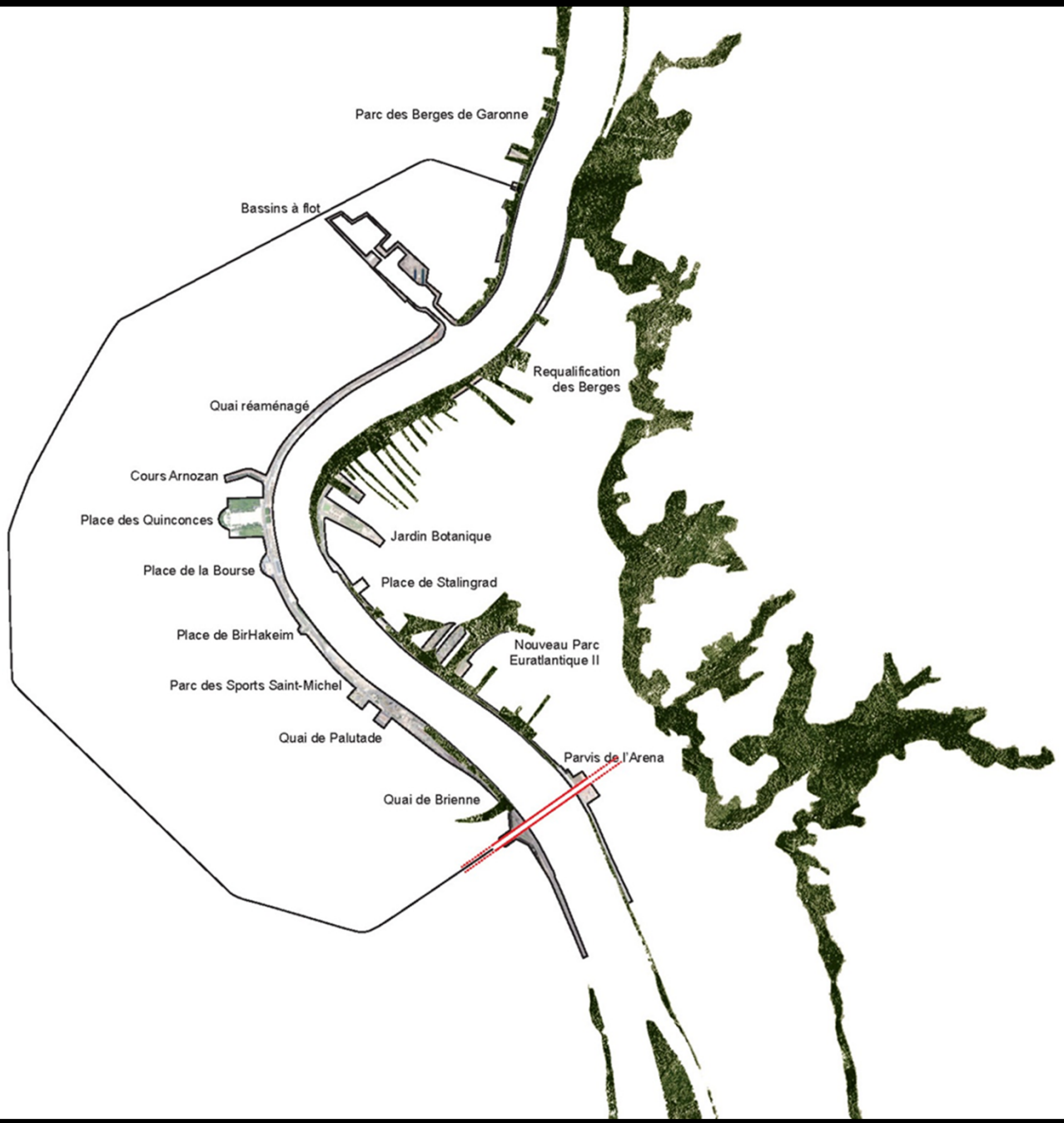


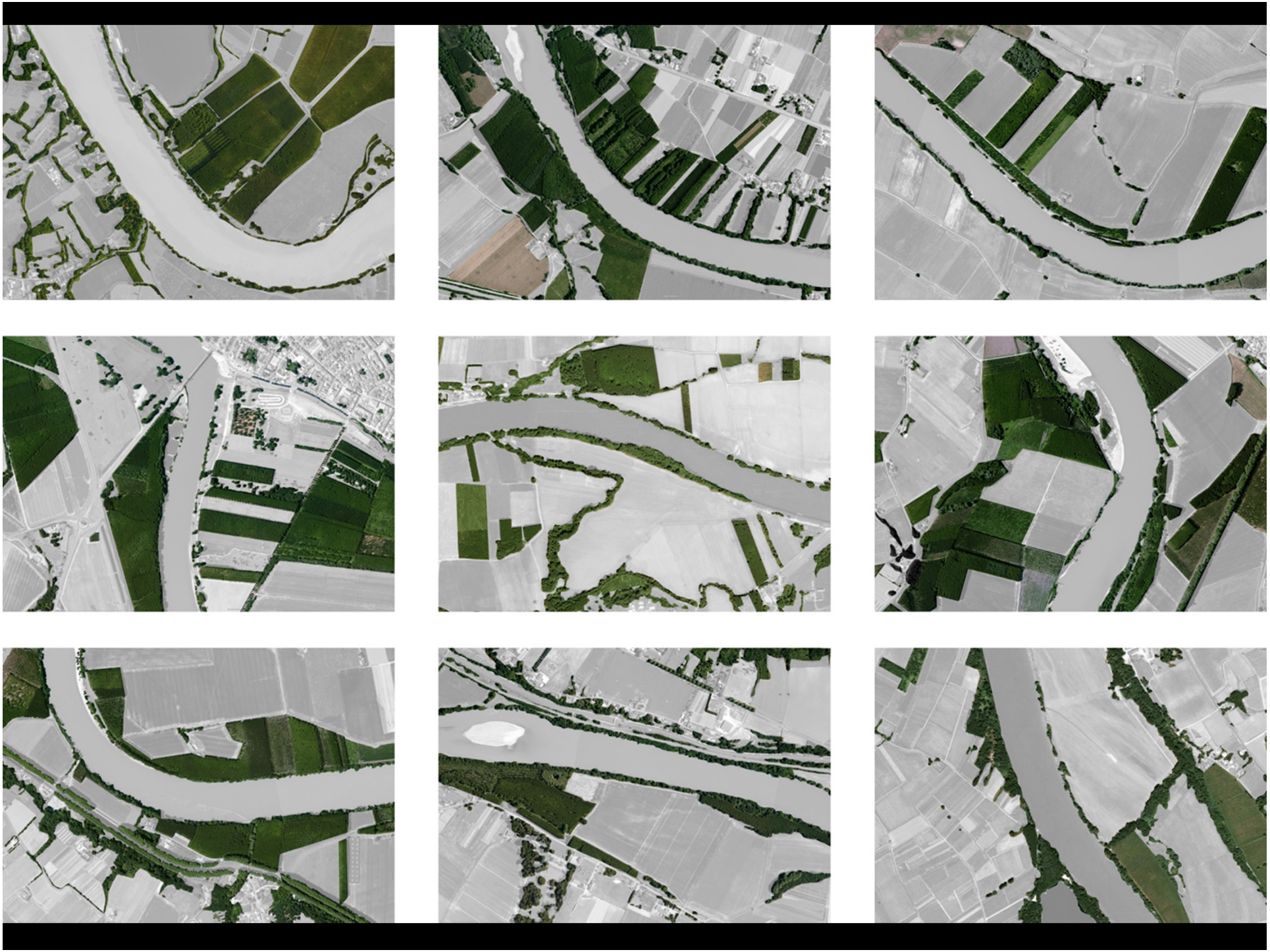

BATIMENTS CLASSES
CLASSIFICATED BUILDINGS

The City of Bordeaux has 347 listed buildings, referred to the law of 31 December 1913.



LOCALISATION





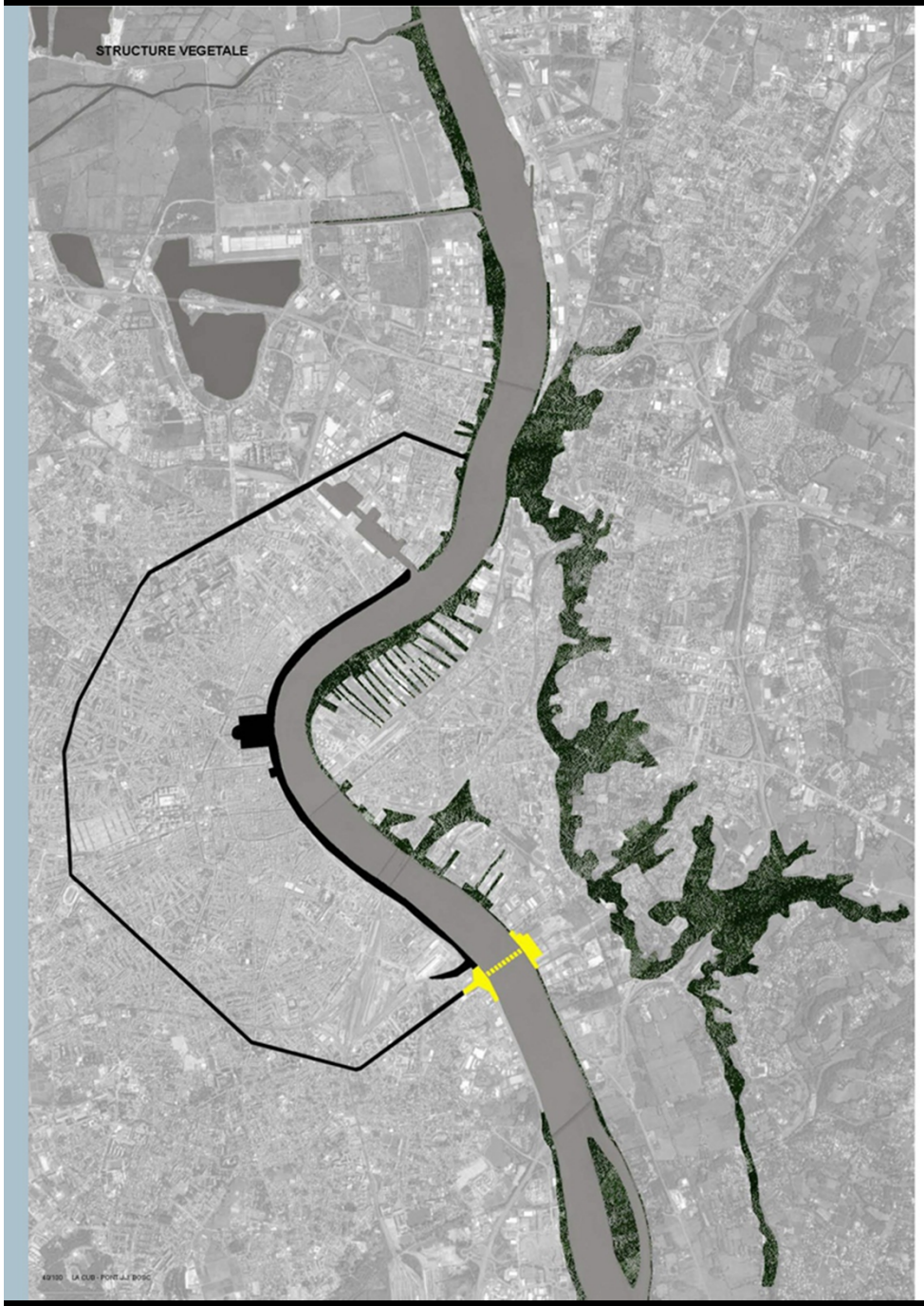








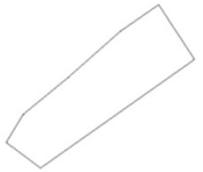


COMPARAISON DES ESPACES PUBLICS BORDELAIS



PLACE DES QUINCONCES
D 370 x 280 m
S 117 000 m2



PARC AUX ANGELIQUES SEQUENCE 2
D 570 x 200 m
S 106 840 m2



PLACE DE LA BOURSE
D 70 x 120 m
S 7 680 m2



JARDIN BOTANIQUE
D 545 x 90 m
S 39 000 m2



PARC DES BERGES
D 640 x 60 m
S 27 240m2



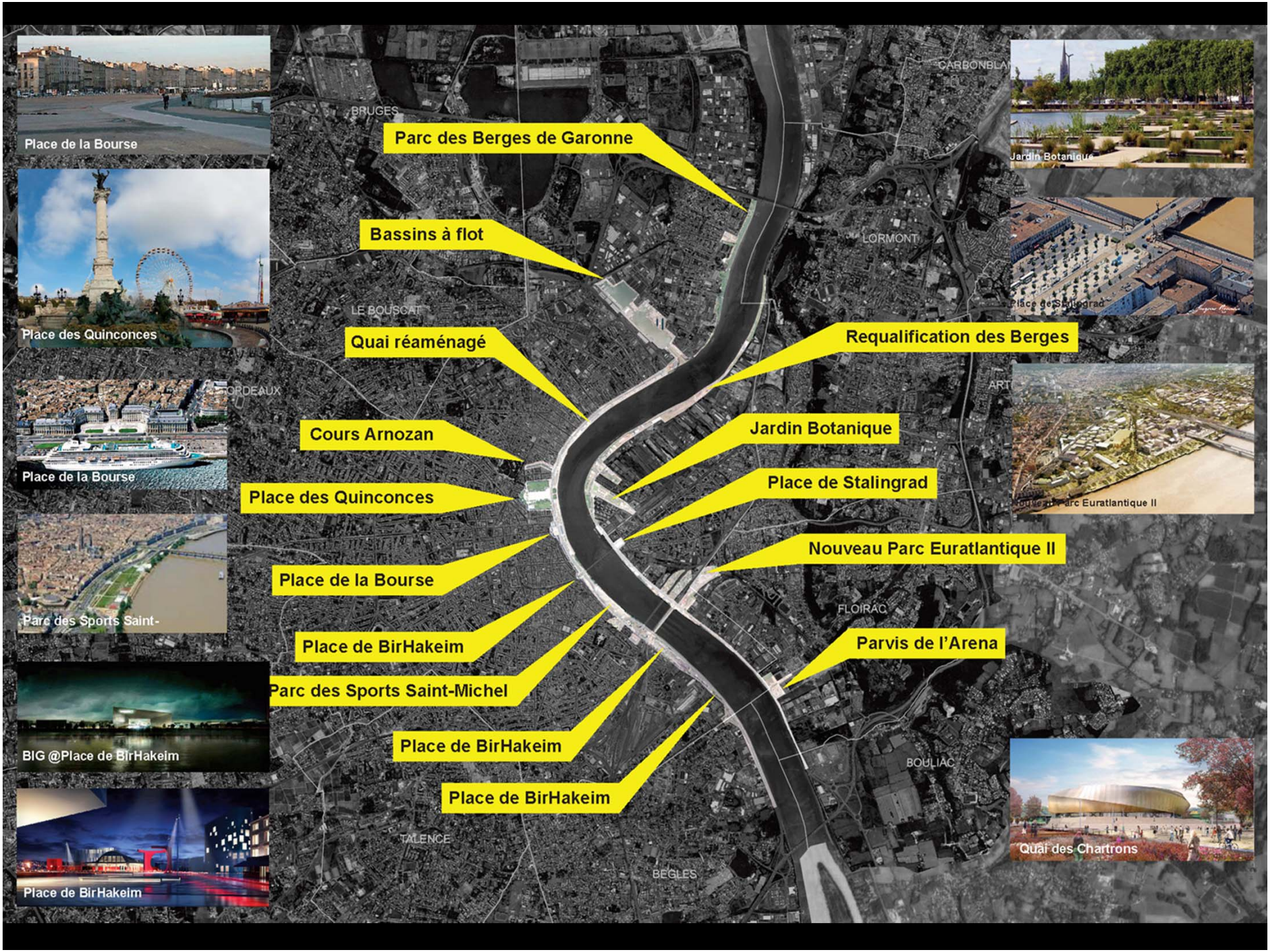
PARC GARONNE EIFFEL
D 990 x 585 m
S 180 000 m2



PONT JEAN JACQUES BOSC RIVE GAUCHE
D 500 x 90 m
S 53 350 m2



PONT JEAN JACQUES BOSC RIVE DROITE
D 510 x 130 m
S 50 160 m2

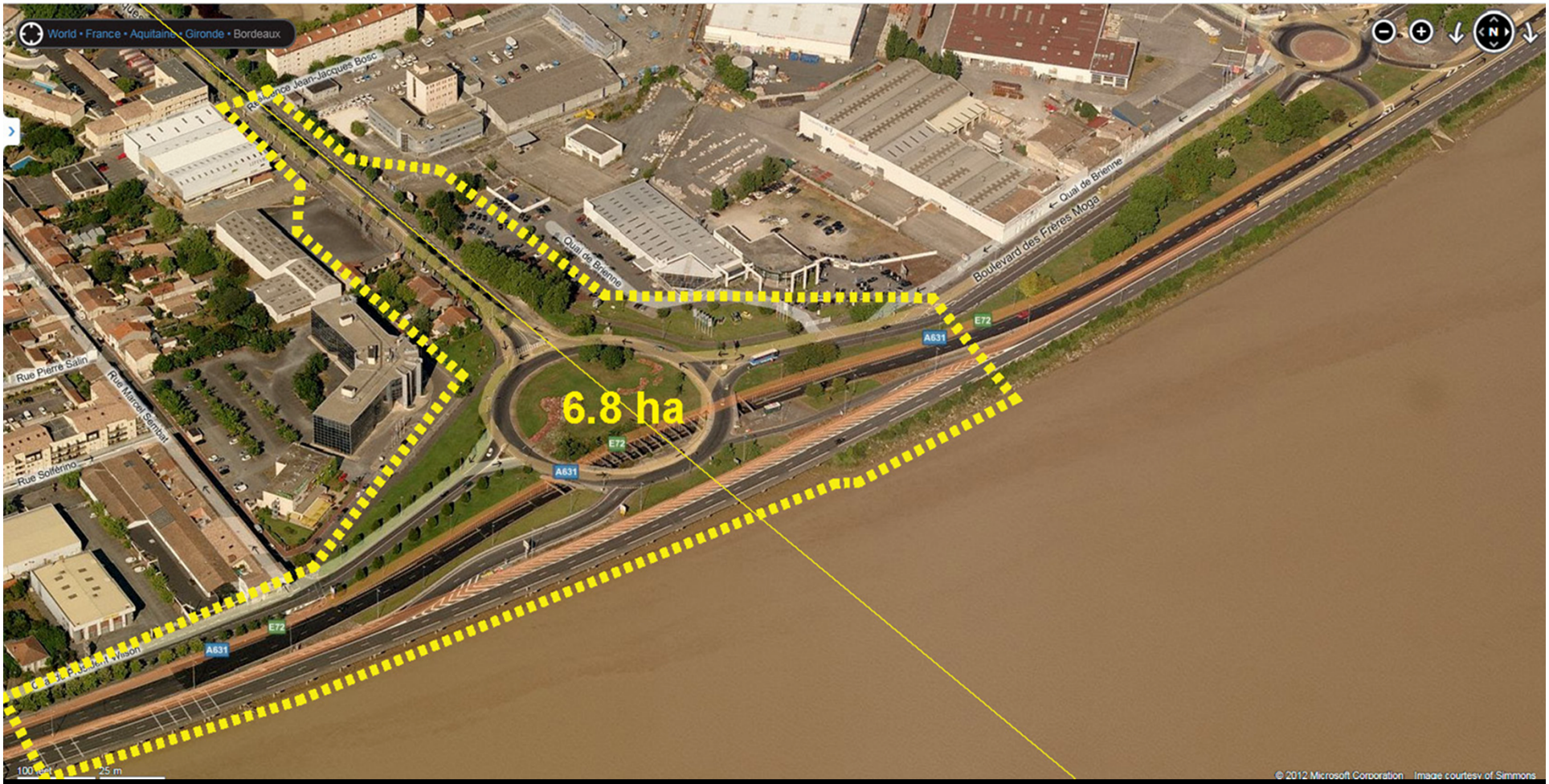

Place de la Bourse
Place des Quinconces
Place de la Bourse
Parc des Sports Saint-
BIG @Place de BirHakeim
Place de BirHakeim
Parc des Berges de Garonne
Bassins à flot
Quai réaménagé
Cours Arnozan
Place des Quinconces
Place de la Bourse
Place de BirHakeim
Parc des Sports Saint-Michel
Place de BirHakeim
Place de BirHakeim
Jardin Botanique
Requalification des Berges
Jardin Botanique
Place de Stalingrad
Nouveau Parc Euratlantique II
Parvis de l'Arena
Quai des Chartrons
BRUGES
LE BOUSCAT
LORMONT
FLOIRAC
BOULIAC
TALENCE
BEGLES

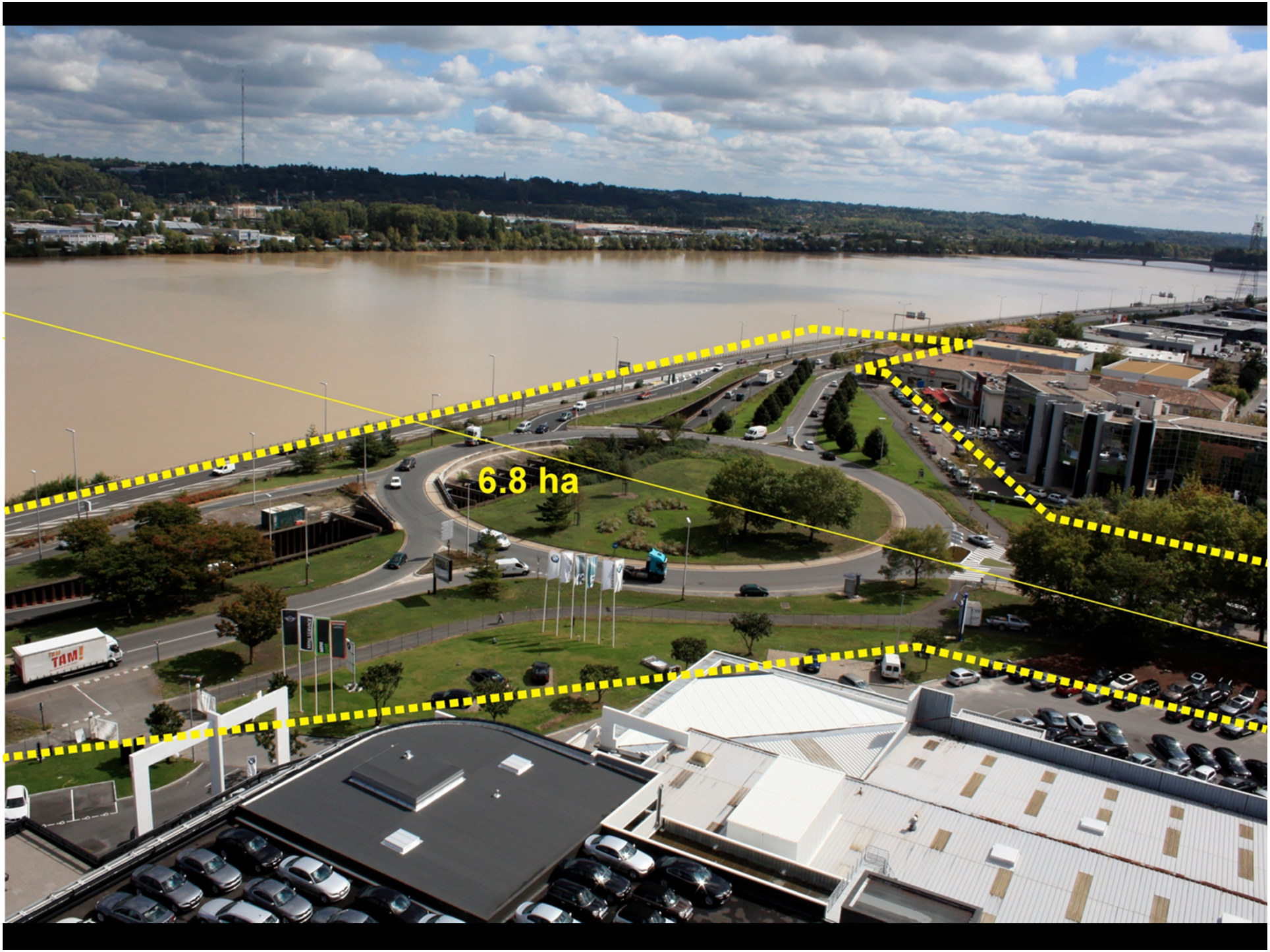
THE BORDEAUX EXPERIENCE




SITE

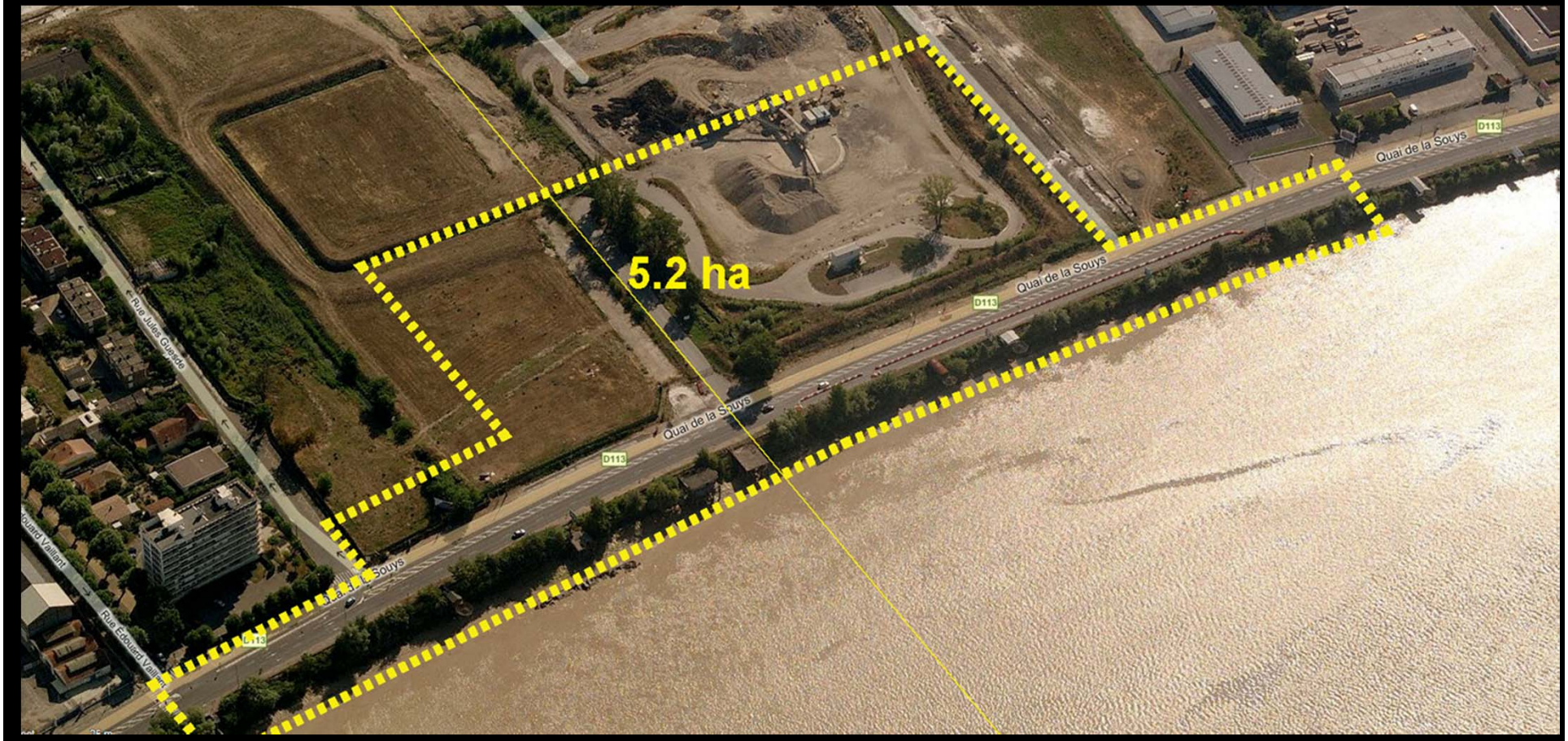

LINKING WEST AND EAST
6.8 ha
5.2 ha


World • France • Aquitaine • Gironde • Bordeaux
6.8 ha
Quai de Brienne
Boulevard des Frères Moga
Rue Pierre Sallin
Rue Marcel Sembat
Rue Solférino
A631
E72
© 2012 Microsoft Corporation Image courtesy of Simmons


6.8 ha


LEFEVRE
CENPIES
MINI

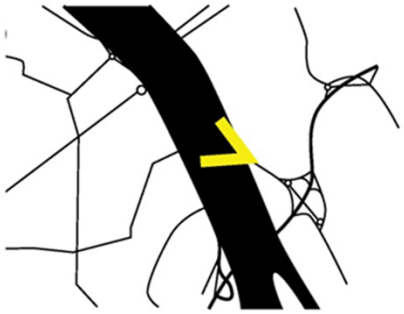



5.2 ha
Quai de la Souys
D113
Rue Jules Guesde
Rue Édouard Vaillant




5.2 ha
Meubles
LESBATS
Meubles - Salons - Literie
Cuisine - Dressing
ICI


BORDEAUX
560 m











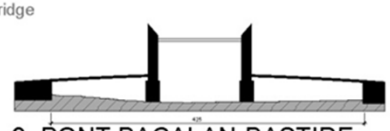
Pont des Arts, Paris


1.6 x eiffel tower
©2010 Google

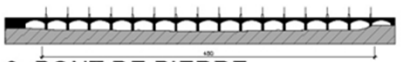




1. PONT D' AQUITAINE
1967 steel / suspension bridge



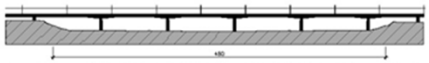
2. PONT BACALAN-BASTIDE
2012 steel + concrete / lift bridge



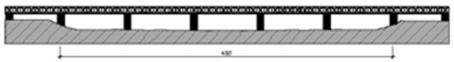
3. PONT DE PIERRE
1821 stone + brick / stone bridge



4. PONT SAINT JEAN
1965 concrete / beam bridge



5. NOUVEAU PONT FERROVIARIE
2008 concrete / beam bridge



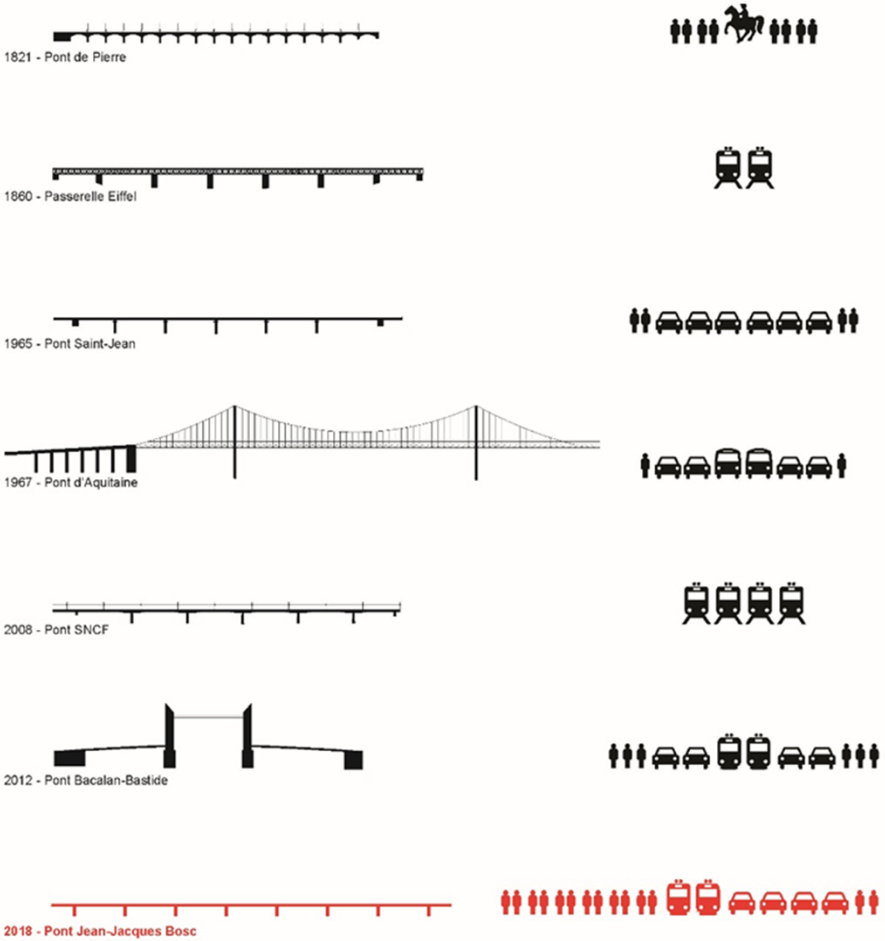
6. PASSARELLE FERROVIARIE
1860 steel/ truss bridge



7. PONT JEAN-JACQUES BOSC
2018



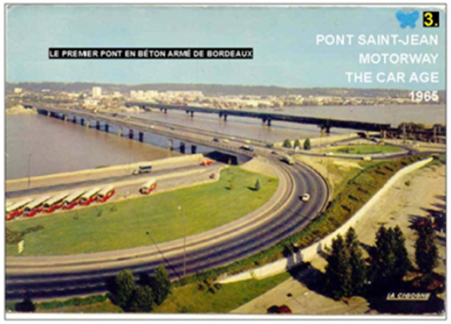
8. PONT FRANÇOIS MITTERRAND
1993 concrete + steel / beam bridge



Un plan neutre; une plateforme efficace...

















SI ON ADMETTAIT QUE DEPUIS 100 ANS NOUS N'AVONS INVENTÉ AUCUN NOUVEAU TYPE DE PONT: QUEL DEVRAIT ETRE LA FACON D'EN INVENTER UN NOUVEAU AUJOURD'HUI ?

RÉVOLUTION INDUSTRIELLE



PONT DE PIERRE
1821 pierre + brique

première ligne régionale ouverte entre Bordeaux et La Teste

les vins Bordelais sont officiellement classés.



exposition maritime internationale 1907

L'Institut National des Appellations d'Origine (INAO) est créé pour protéger la production de vins Bordelais

Afflux des réfugiés à Bordeaux.



PONT SAINT JEAN 1965
béton / pont a poutre



1990 - le premier TGV arrive à Bordeaux



PONT FRANÇOIS MITTERRAND 1993 béton et acier / pont a poutre



PONT BACALAN-BASTIDE 2012
acier et béton / pont levant

1810 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1940 1960 1980 1990 2000 2010 2020



marchand sur le port

DÉMOGRAPHIE DE BORDEAUX



PASSERELLE FERROVIAIRE 1860
acier/ pont a poutre treillis Eiffel

DASSAULT AVIATION
EADS SOGERMA

l'industrie aéronautique demande l'usage de la Garonne pour le transport



PONT D' AQUITAINE 1967
acier / pont en suspension



NOUVEAU PONT FERROVIAIRE 2008
béton/ pont a poutre



PONT
JEAN JACQUES BOSC 2018

L'APOLOGIE DES DÉPLACEMENTS DOUX





1965 - Pont Saint-Jean





2018 - Pont Jean-Jacques Bosc





L'exemple du pont Galata...

Concept: ...le pont Galata revisite





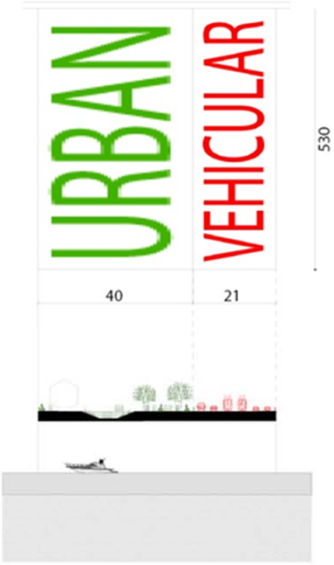
URBAN PLATFORM
1.7 BUDGET

AREA
- 32,330 SQM

PRICE ESTIMATE
- €97,000,000

STREET COMPARISON
LA RAMBLA BARCELONA



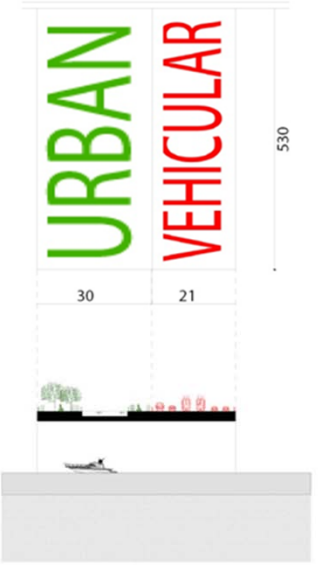


AREA
- 27,030 SQM

PRICE ESTIMATE
- €81,000,000

STREET COMPARISON
BROADWAY NEW YORK





AREA
-21,730 SQM

PRICE ESTIMATE
- €65,000,000

STREET COMPARISON
VIALE GIUSEPPE MAZZINI ROME





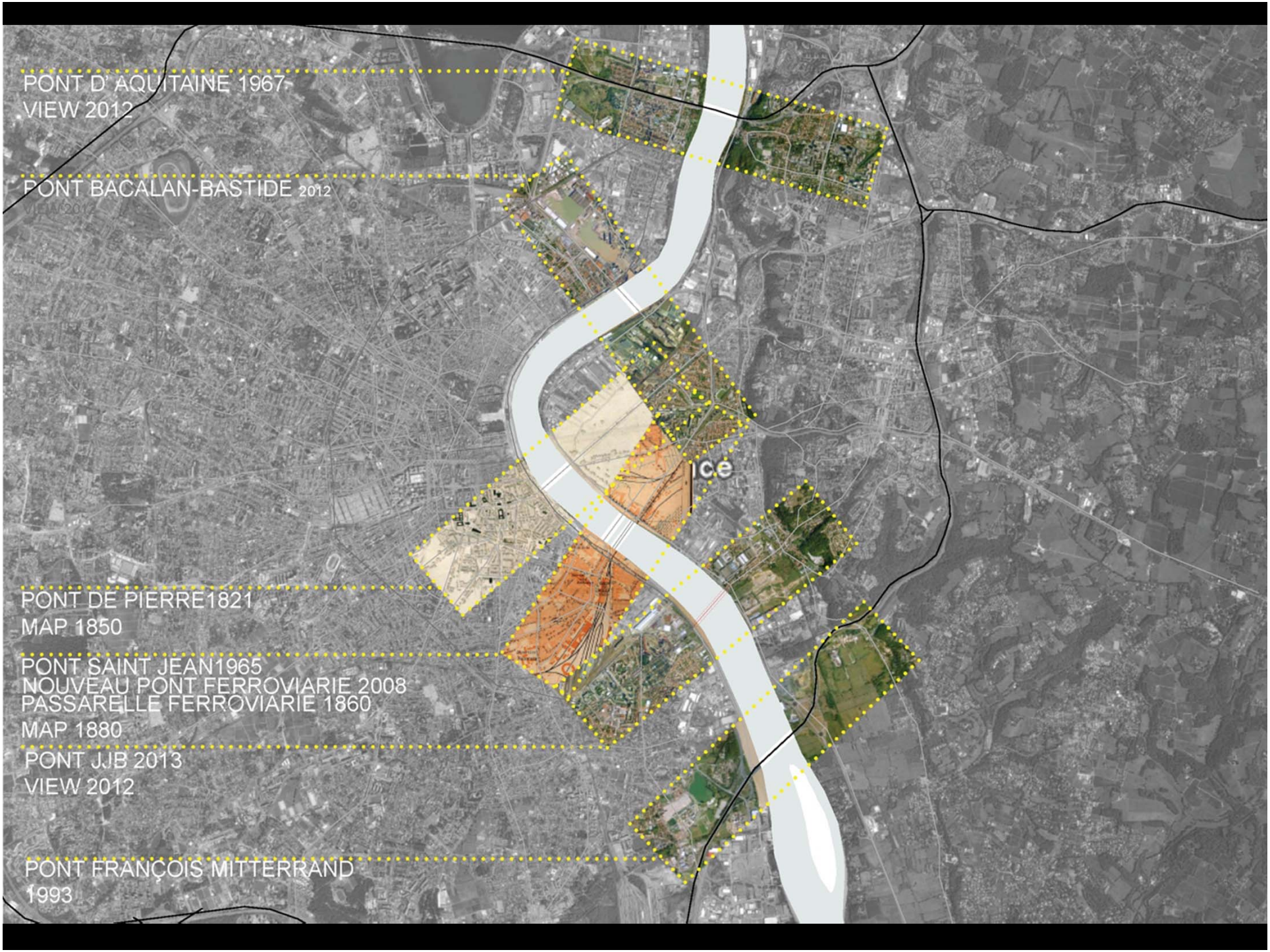
AREA
- 16,430 SQM

PRICE ESTIMATE
- €50,000,000

STREET COMPARISON
HERENGRACHT AMSTERDAM






PONT D' AQUITAINE 1967
VIEW 2012
PONT BACALAN-BASTIDE 2012
PONT DE PIERRE1821
MAP 1850
PONT SAINT JEAN1965
NOUVEAU PONT FERROVIARIE 2008
PASSARELLE FERROVIARIE 1860
MAP 1880
PONT JJB 2013
VIEW 2012
PONT FRANÇOIS MITTERRAND
1993

BORDEAUX - UNESCO

BASILIQUE SAINT-MICHEL, 1492, 114m



LA GROSSE CLOCHE, sec XV, 40m



TOUR DE LA C.U.B., 1977, 77m



TOUR PEY-BERLAND,sec.XV



CATHEDRAL SAINT-ANDRE,sec.XIII/XVI
93m /75m



CITE ADMINISTRATIVE,1974, 92m /75m



PONT FRANCOIS MITERRAND
2003, 24m

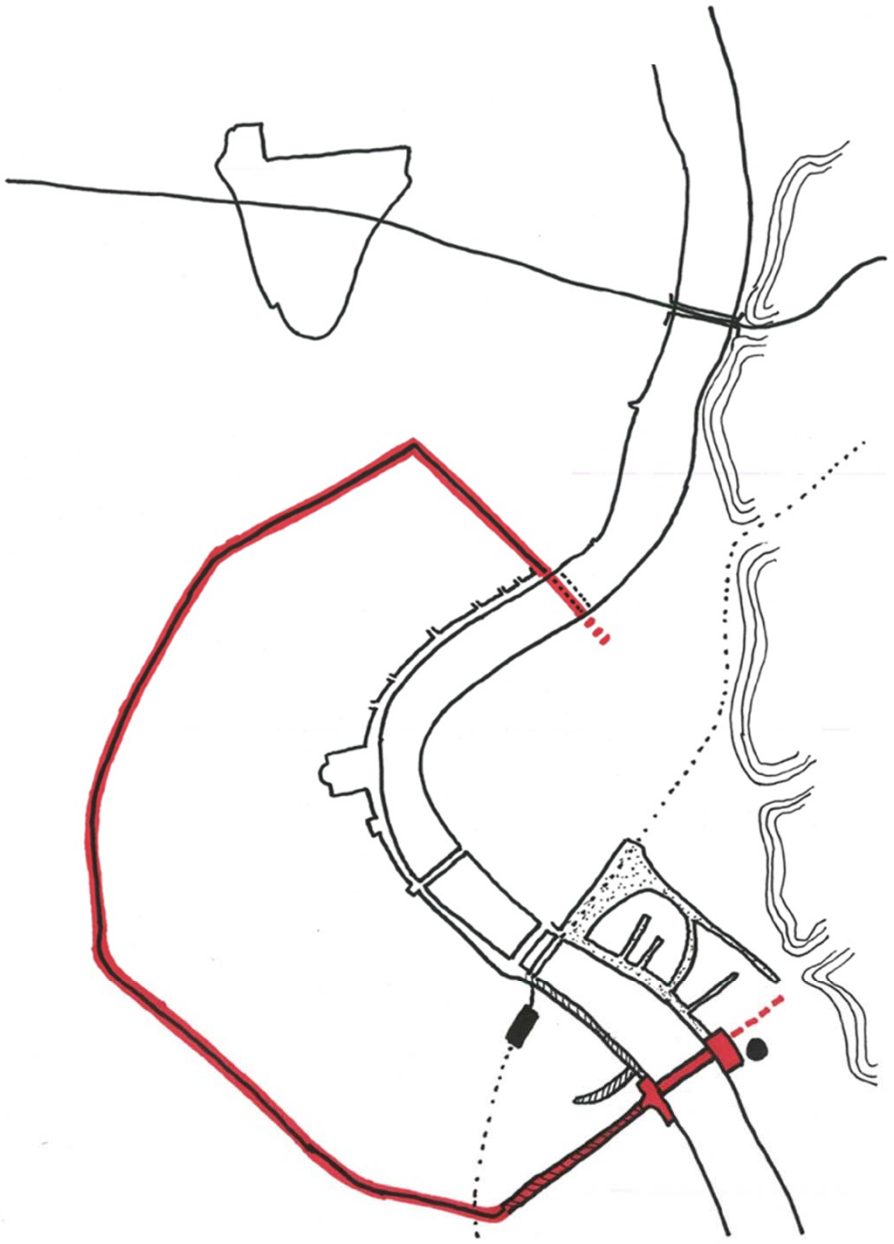
PASSARELLE FERROVI-
ARIE

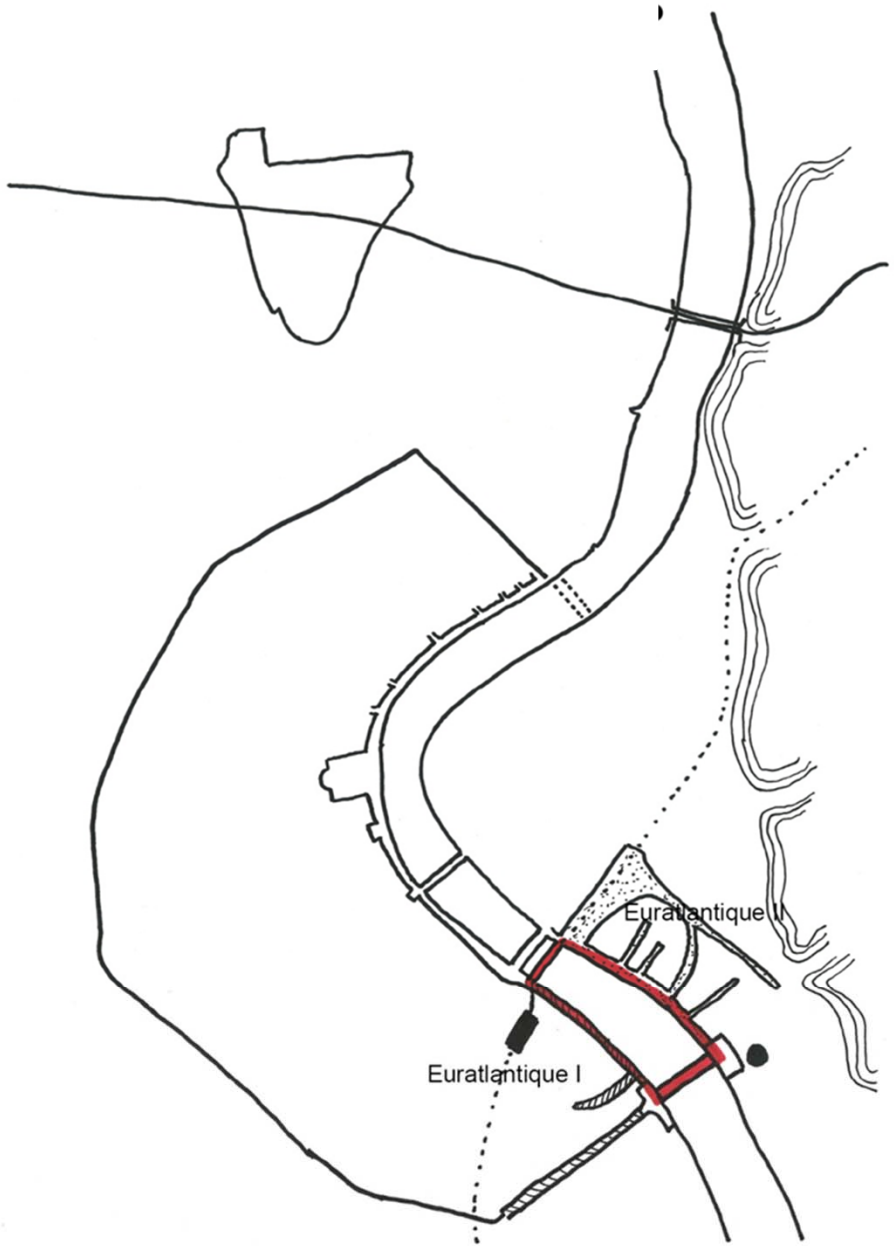
NOUVEAU PONT FERROVI-
ARIES
2008, 33m

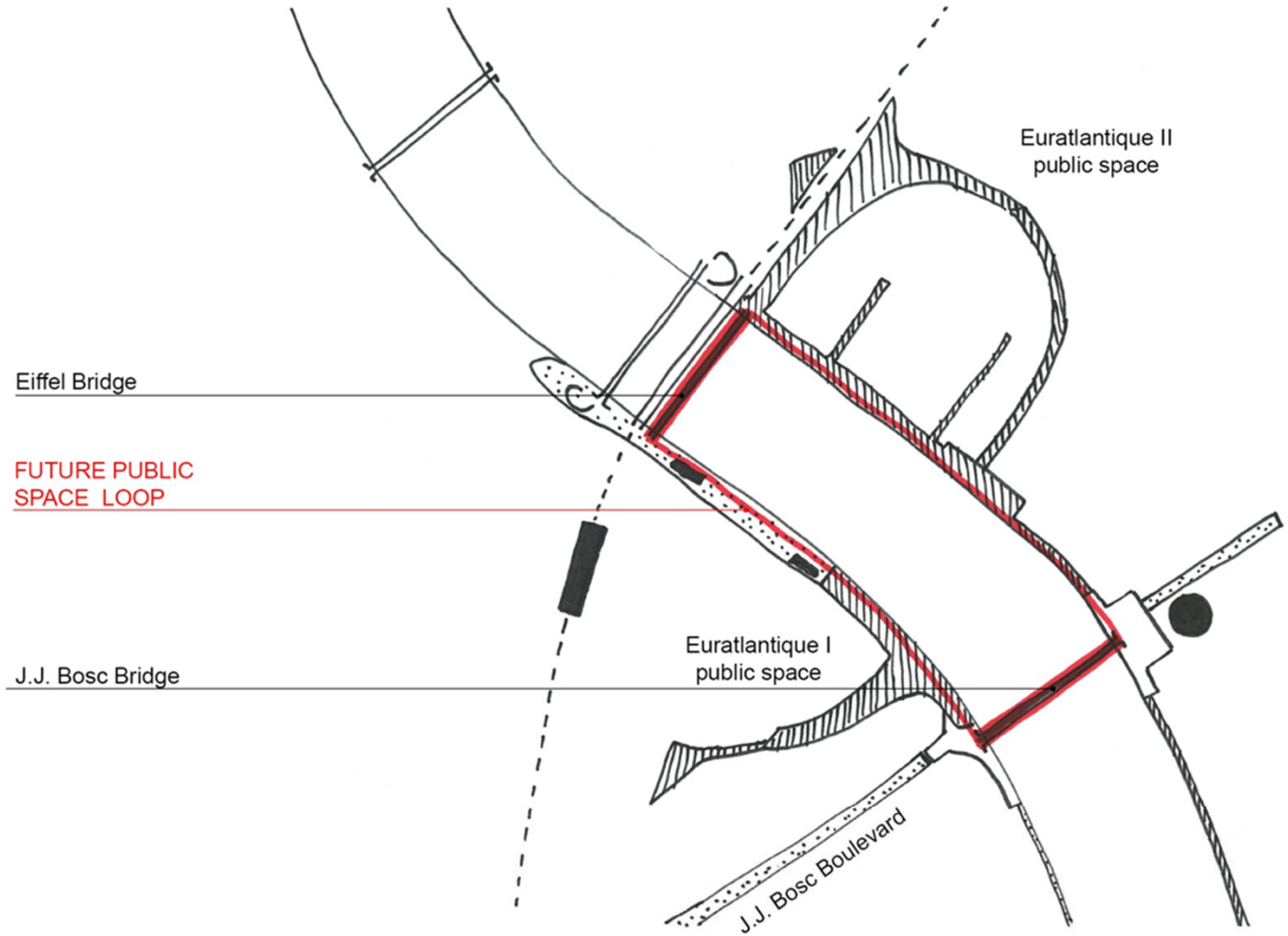
PONT DE PIERRE
1821, 30m

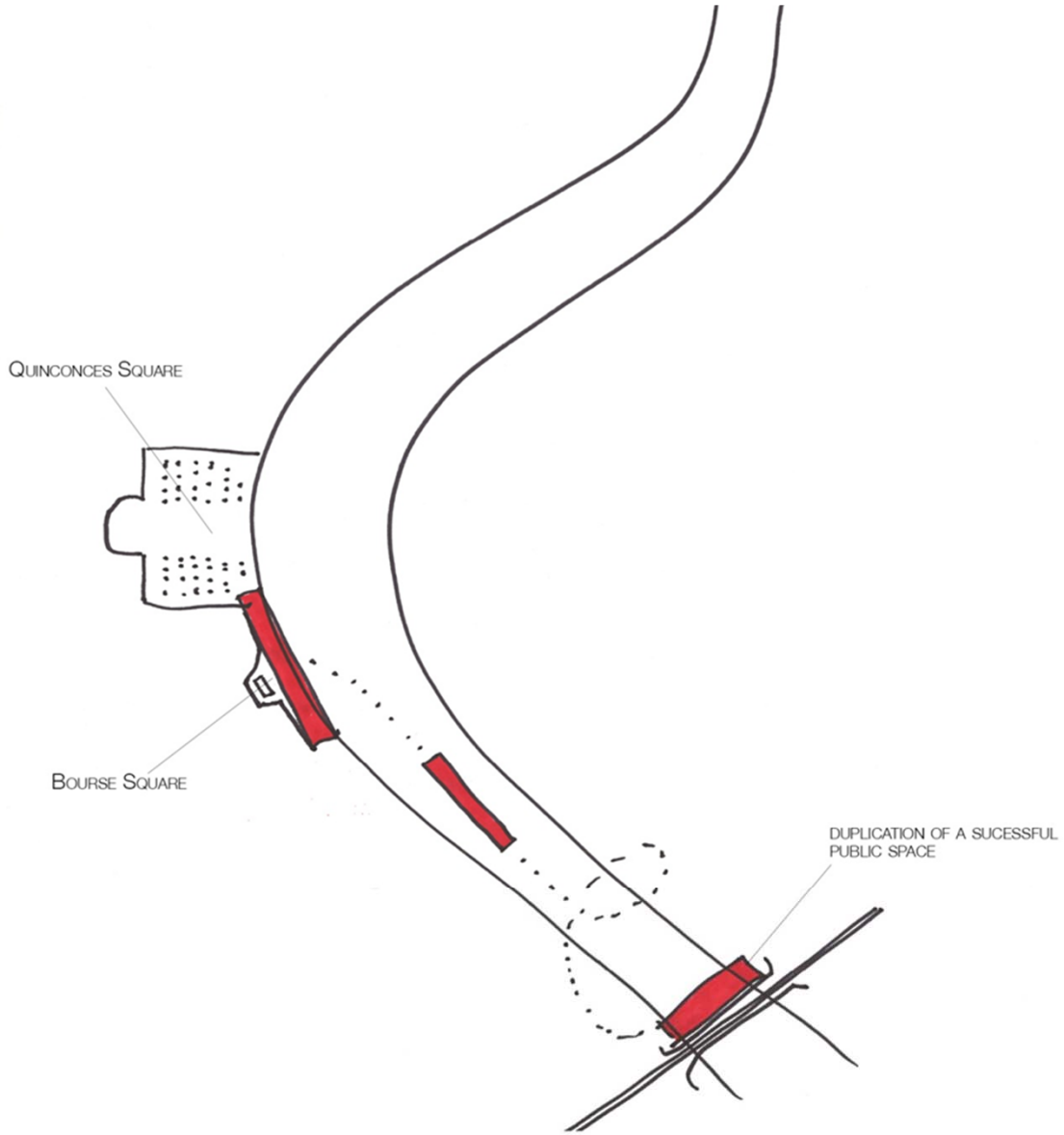
PONT BACALON-BASTIDE
77m

PONT d'AQUITAINE
1967, 120m

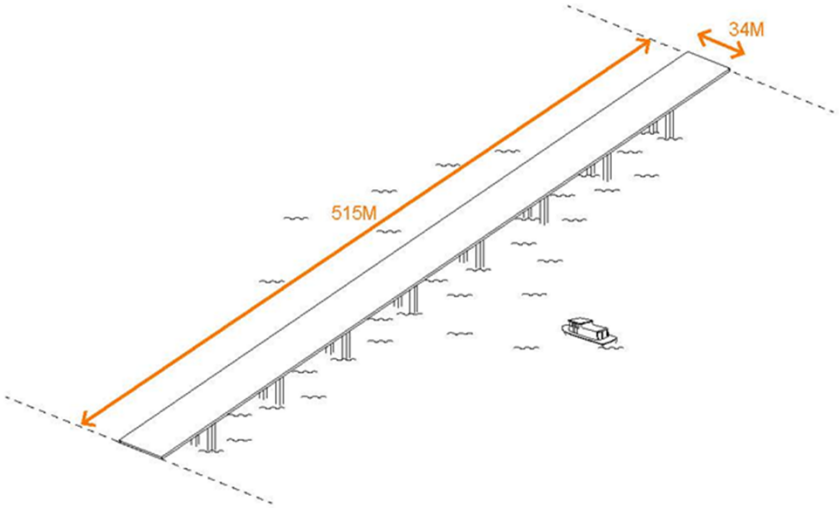



Euratlantique II
Euratlantique I

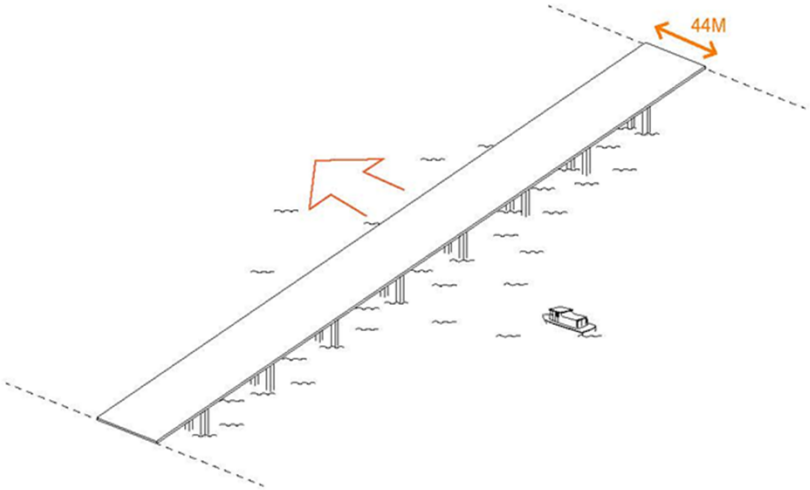

Euratlantique II
public space
Eiffel Bridge
FUTURE PUBLIC
SPACE LOOP
Euratlantique I
public space
J.J. Bosc Bridge
J.J. Bosc Boulevard


QUINCONCES SQUARE
BOURSE SQUARE
DUPLICATION OF A SUCESSFUL
PUBLIC SPACE

CONCEPT

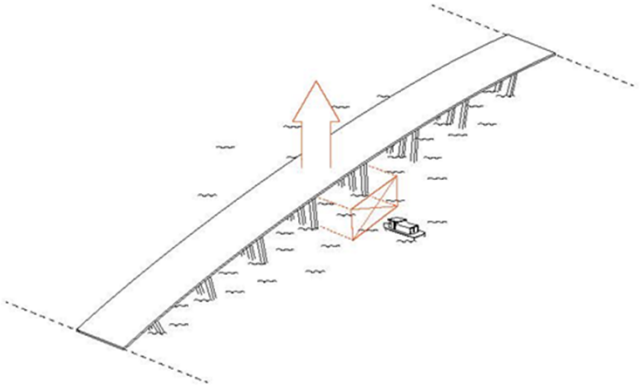


1. LE PROGRAMME

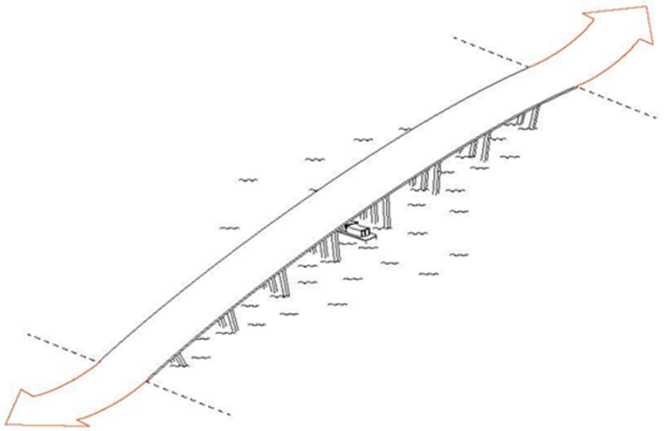


2. CRÉATION D'UN VÉRITABLE ESPACE PUBLIC EN AJOUTANT 10M DE LARGEUR A L'ESPACE PIÉTON

CONCEPT

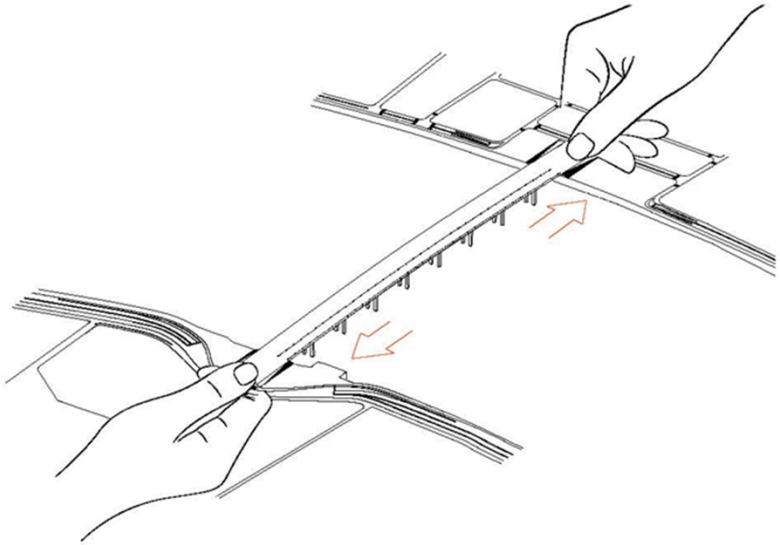


3. ADAPTATION AUX CONTRAINTES
LA COURBE EST ÉTABLIE PAR LE CHENAL DE NAVIGATION

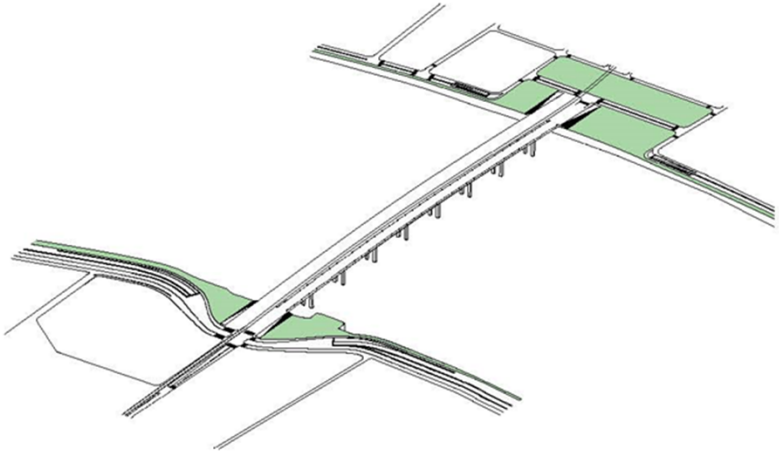


4. CONTINUITÉ URBAINE
FAVORISER LES CONNEXIONS PIÉTONNES, CYCLABLES ET TCSP

CONCEPT



3. DÉGAGEMENT DES BERGES



6. CRÉATION DE DEUX PARCS EN LIEN DIRECT AVEC LA GARONNE



PONT DE PIERRE



PLACE DE LA BOURSE



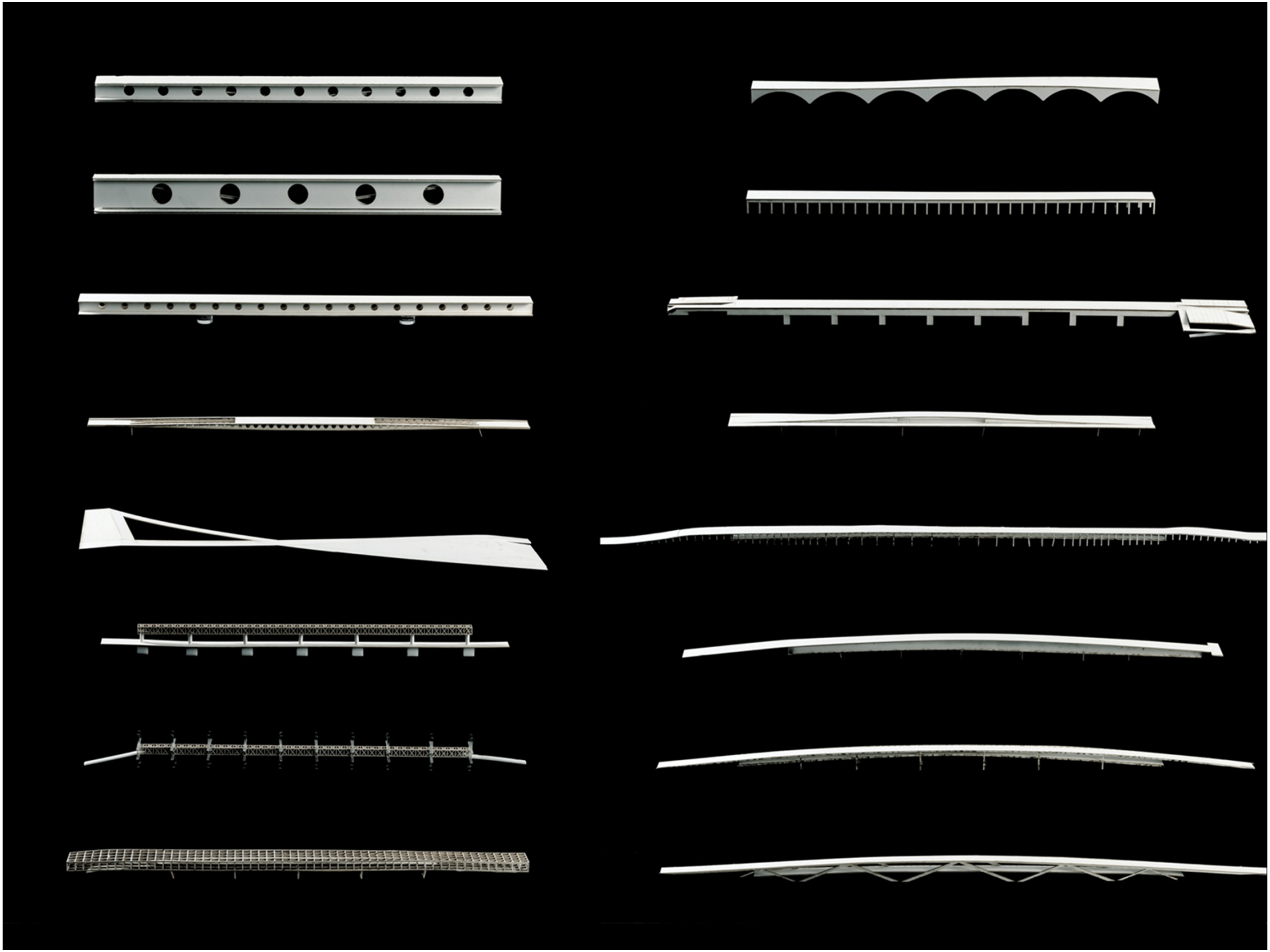
PLATE-FORME NEUTRE



DIVERSITÉ



Pedestrian Bridge - Carrilho da Graça - Covilhã, Portugal

































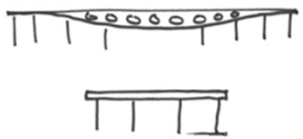


CURRENT SCHEMES LIST RANKING

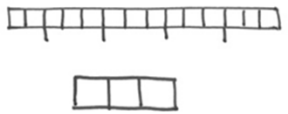
1.GENERIC +



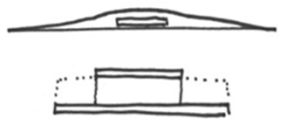
2.BORDEAUX EYE

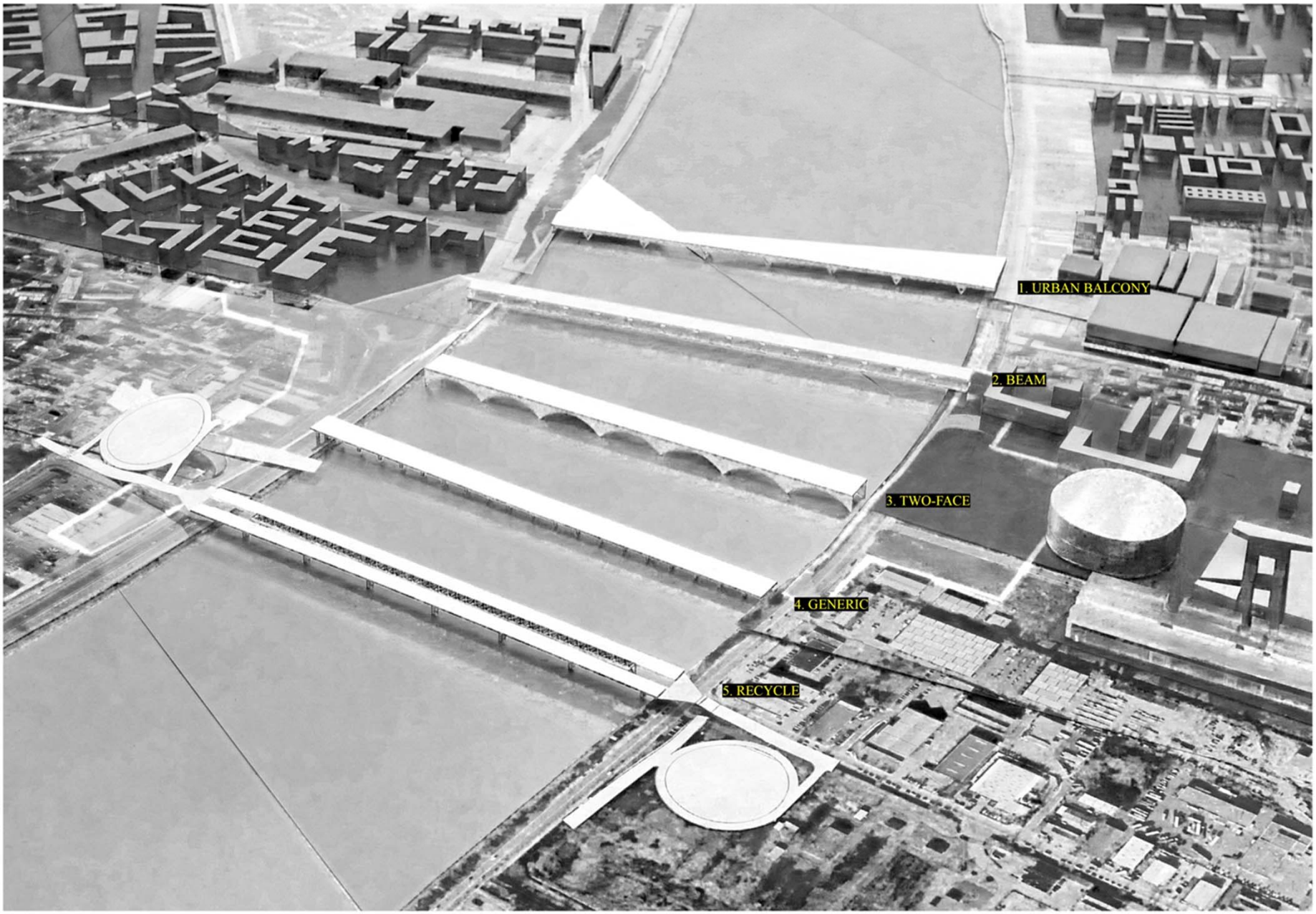


3.GRID FRAME



4.BALCONY

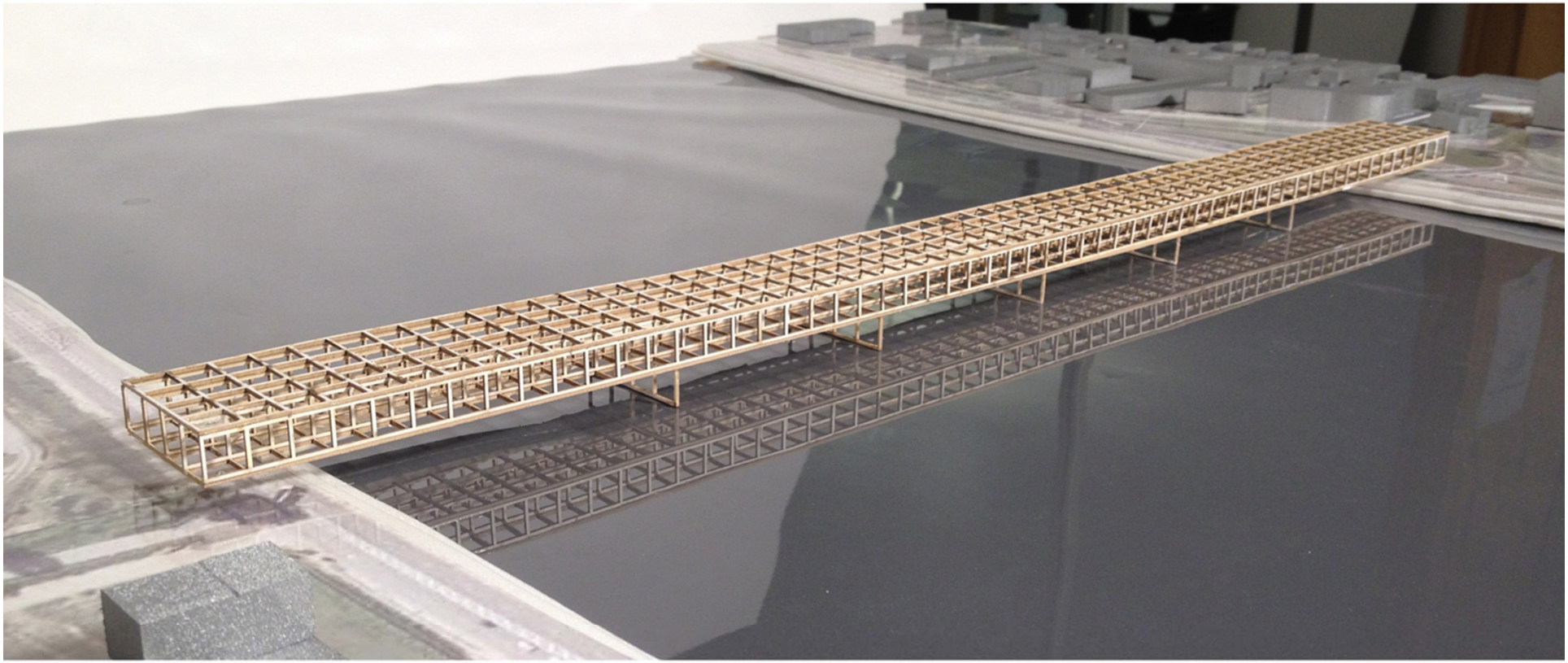



1. URBAN BALCONY
2. BEAM
3. TWO-FACE
4. GENERIC
5. RECYCLE

URBAN PLATFORM
1.6 ARTISTIC IMPRESSION

OPTION 1.3_GRID

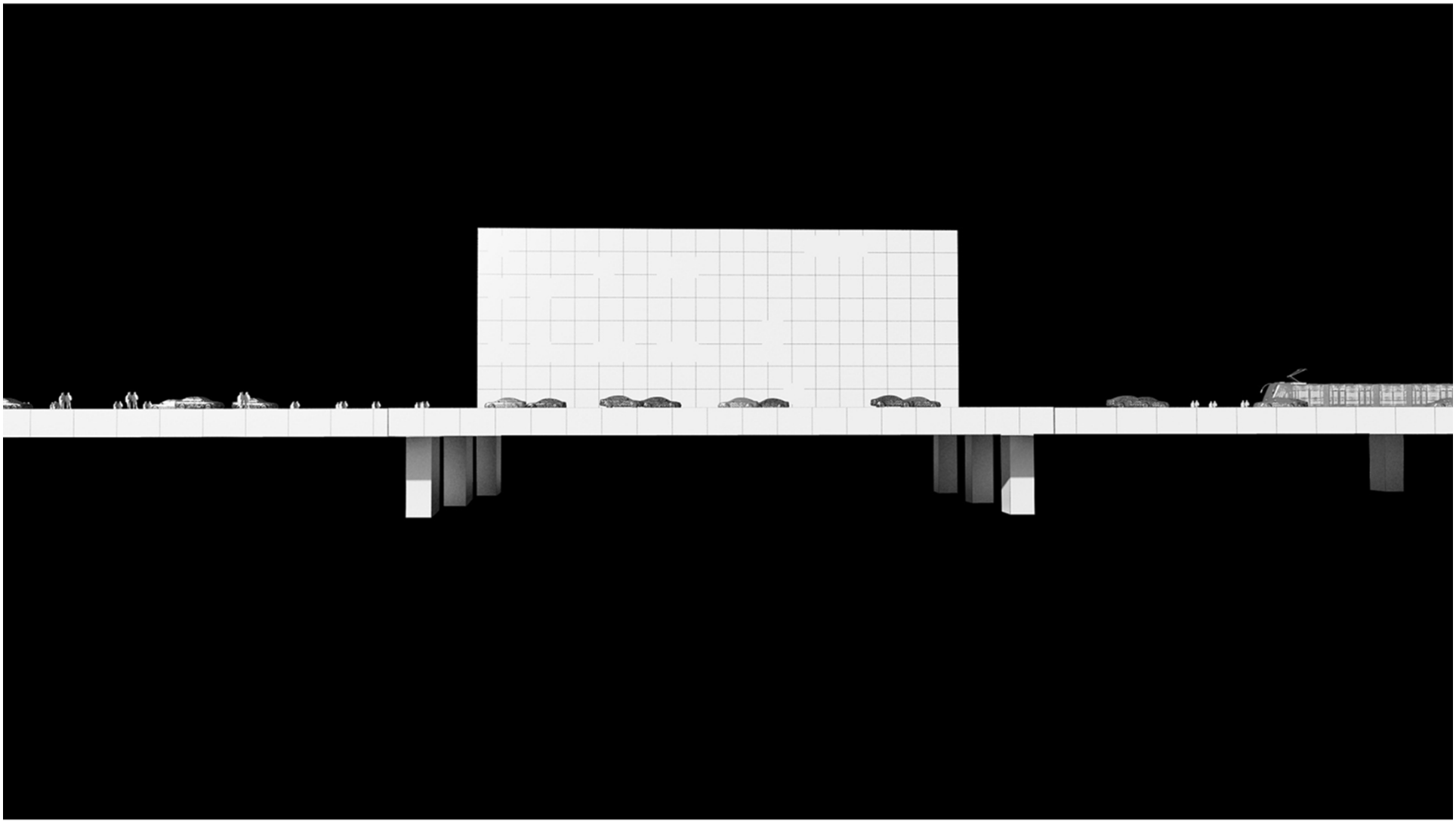


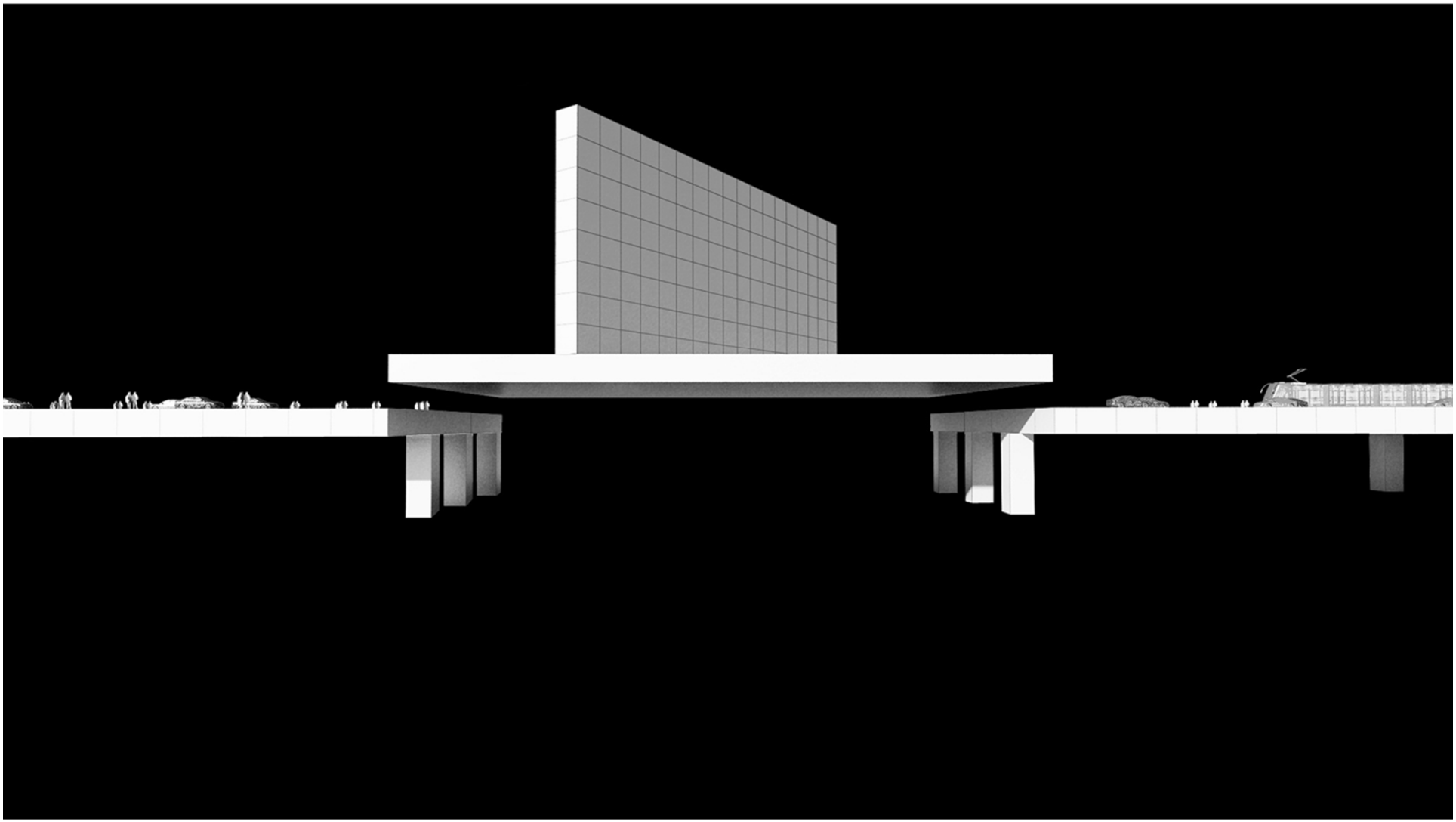


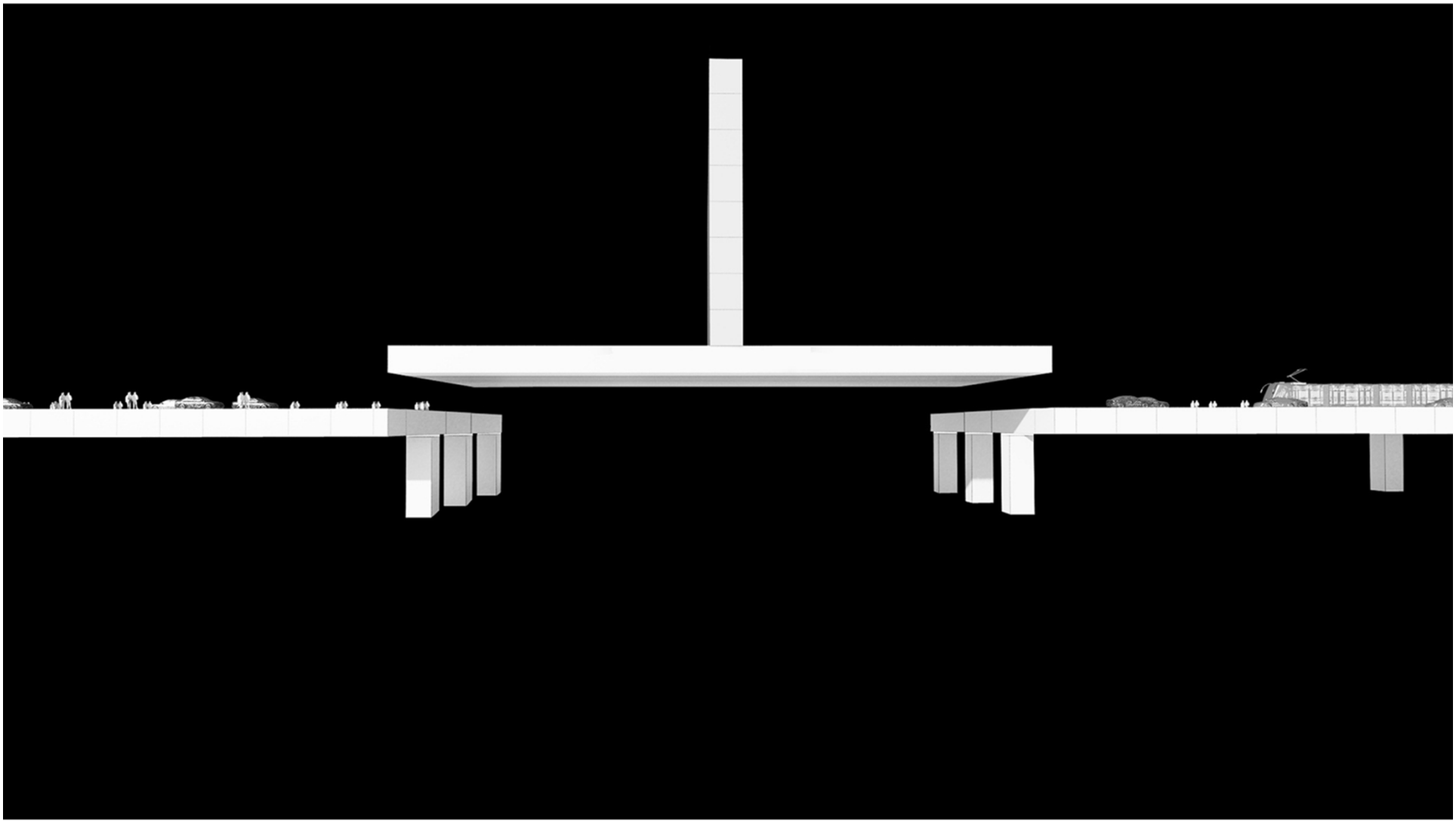
URBAN PLATFORM
1.6 ARTISTIC IMPRESSION

OPTION 1.3_GRID



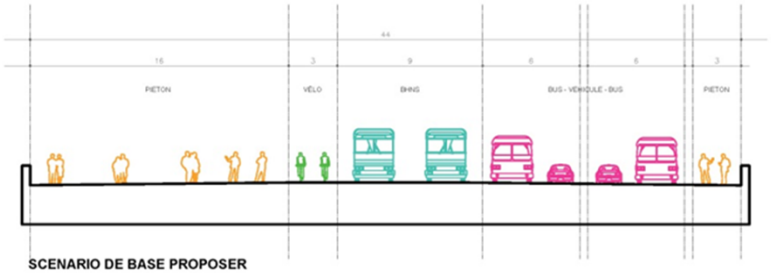




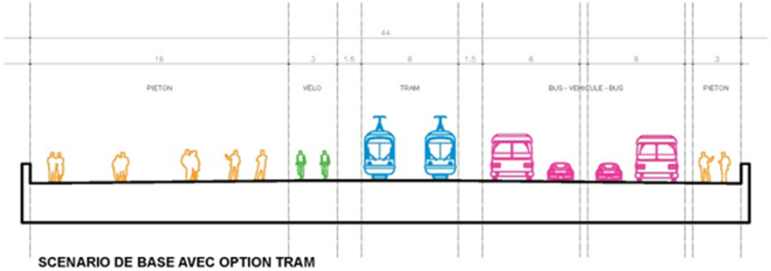



“L’architecture générale de l’ouvrage
est volontairement simple et classique .”

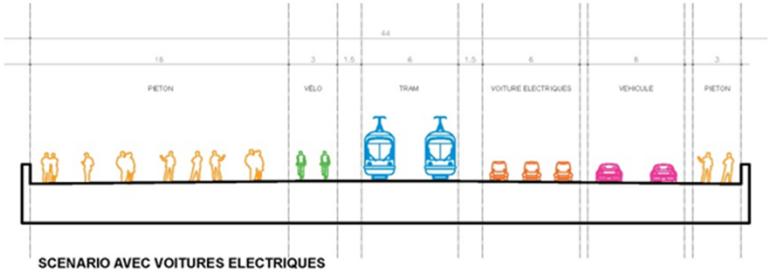
FLEXIBILITÉ DE L'OUVRAGE
L'ÉVOLUTIVITÉ POSSIBLE DE L'USAGE



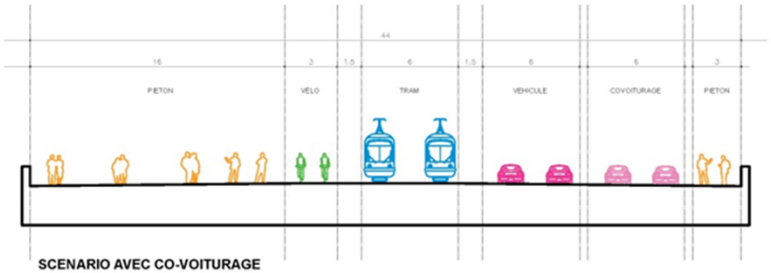
SCENARIO DE BASE PROPOSER



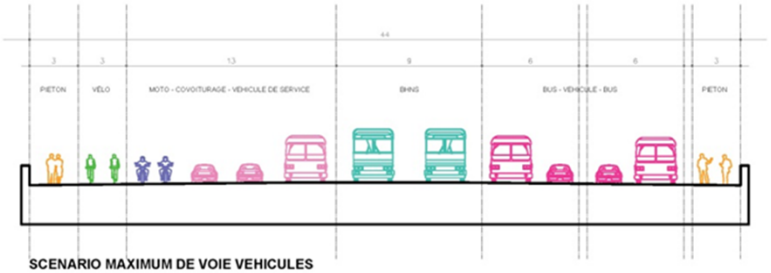
SCENARIO DE BASE AVEC OPTION TRAM BHNS



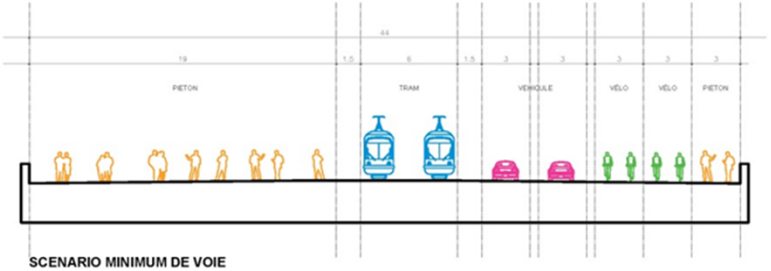
SCENARIO AVEC VOITURES ELECTRIQUES



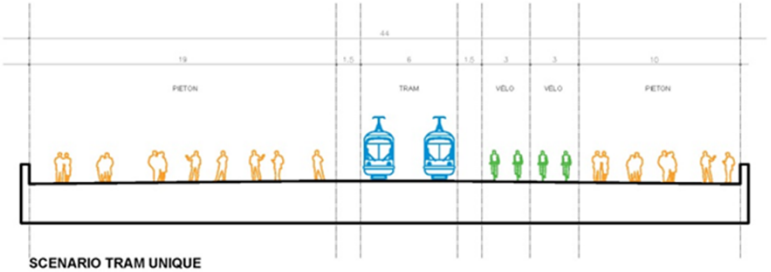
SCENARIO AVEC CO-VOITURAGE



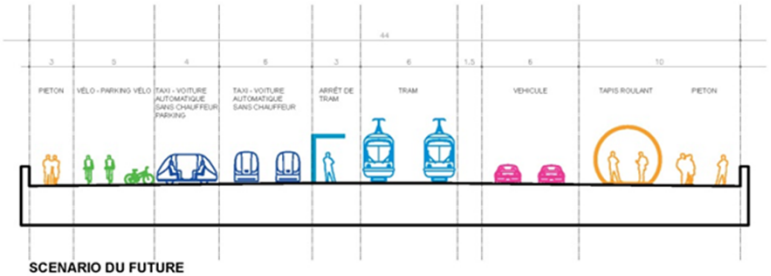
SCENARIO MAXIMUM DE VOIE VEHICULES



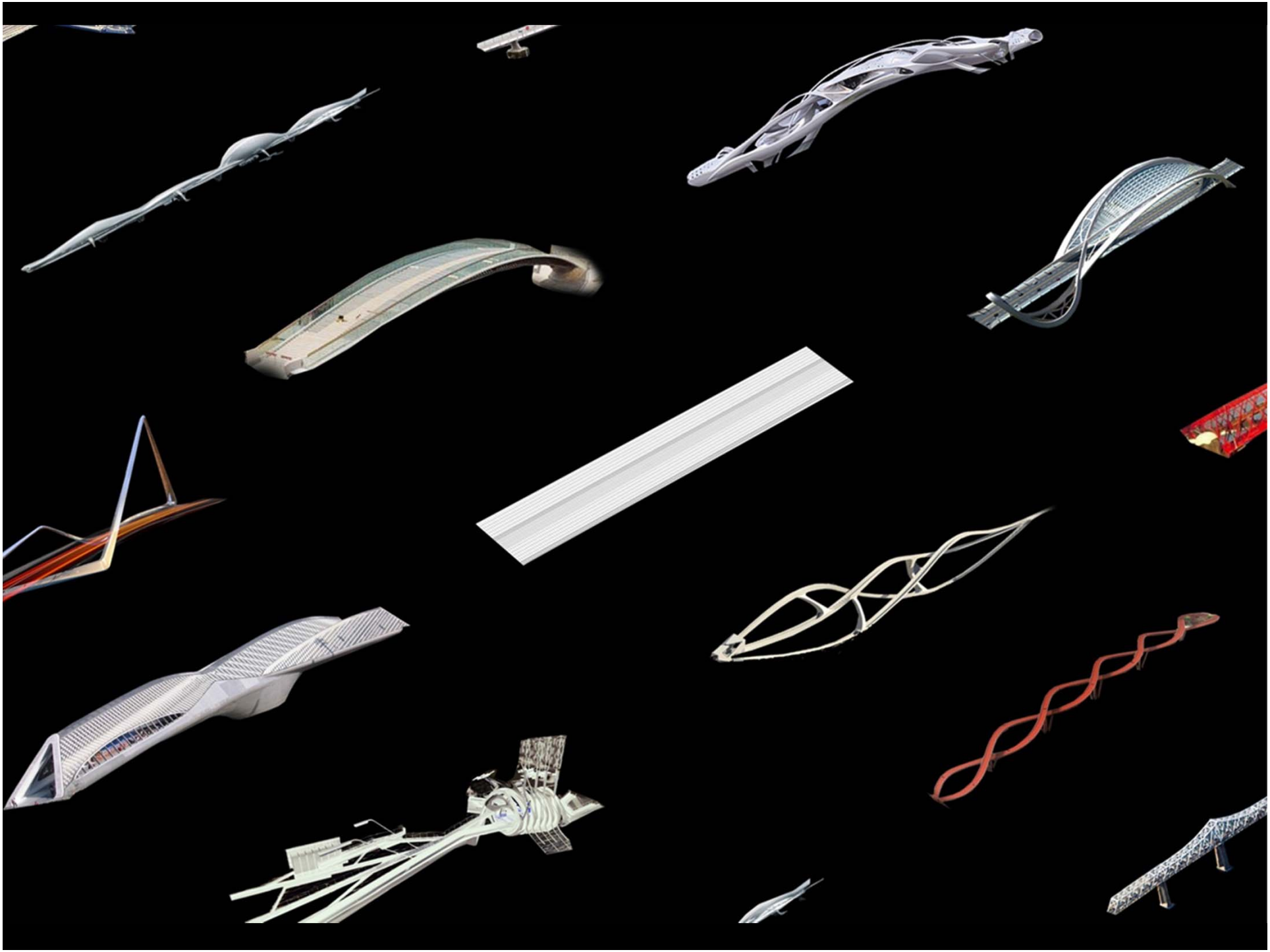
SCENARIO MINIMUM DE VOIE



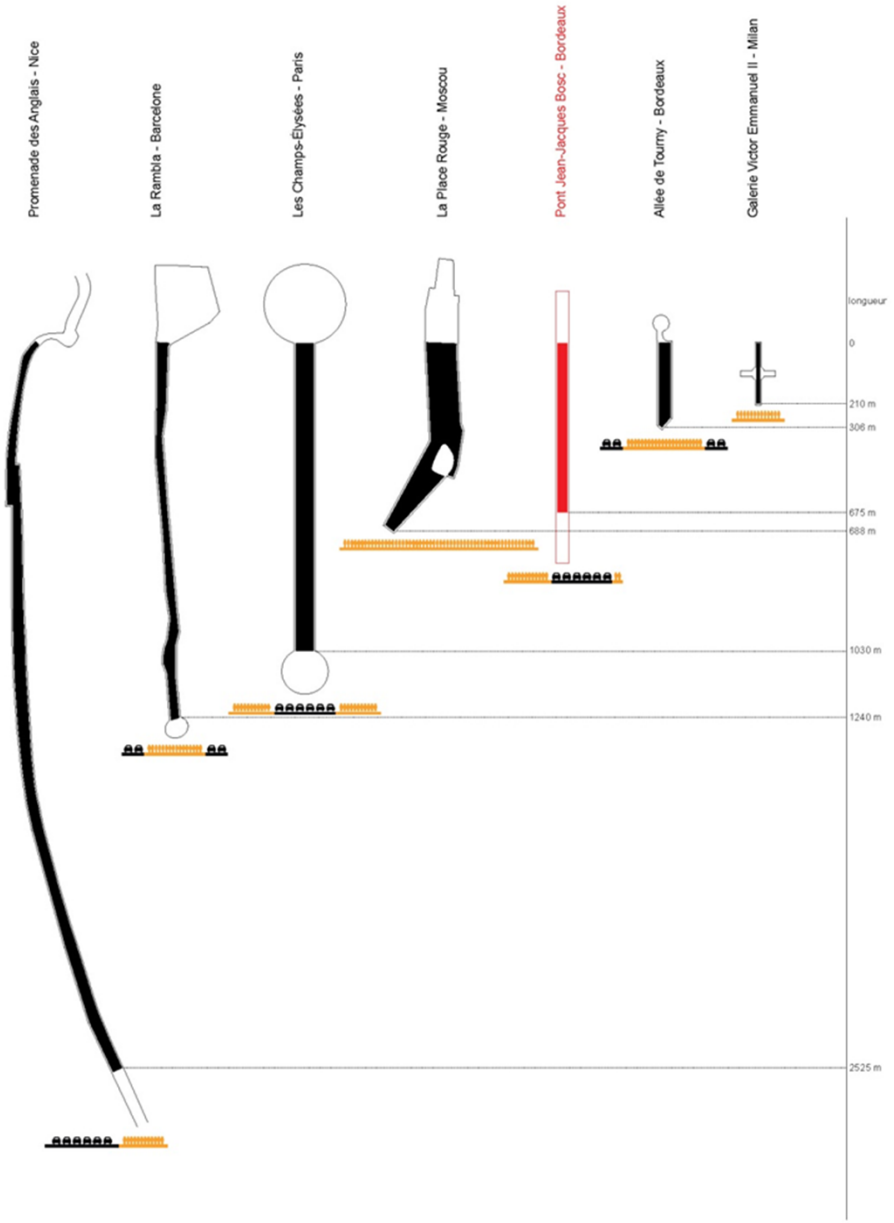
SCENARIO TRAM UNIQUE



SCENARIO DU FUTURE



LE PONT JEAN-JACQUES BOSC PARMI LES GRANDS ESPACES PUBLICS





PROMENADE DES ANGLAIS - NICE



LA RAMBLA - BARCELONE



LES CHAMPS-ÉLYSÉES - PARIS



LA PLACE ROUGE - MOSCOU



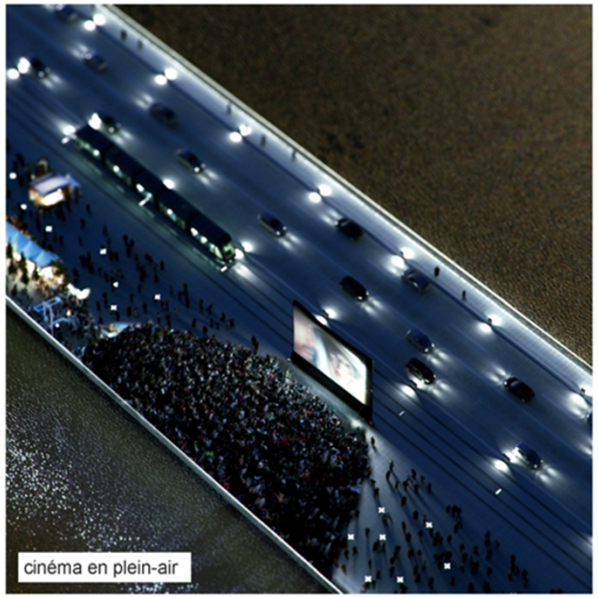
ALLÉE DE TOURNY - BORDEAUX

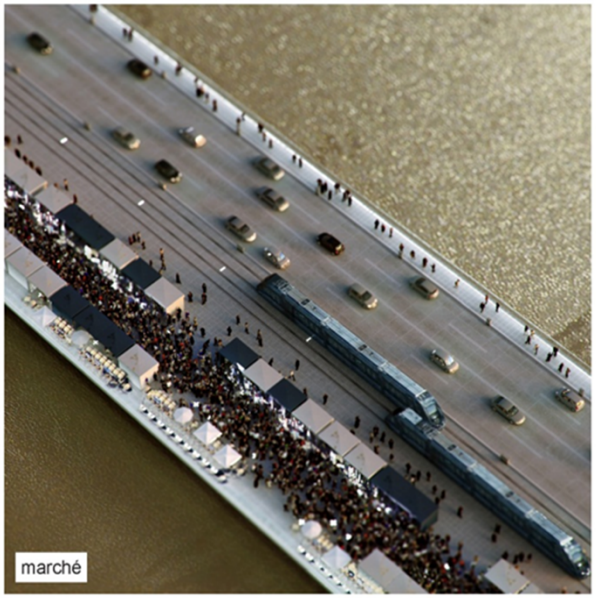


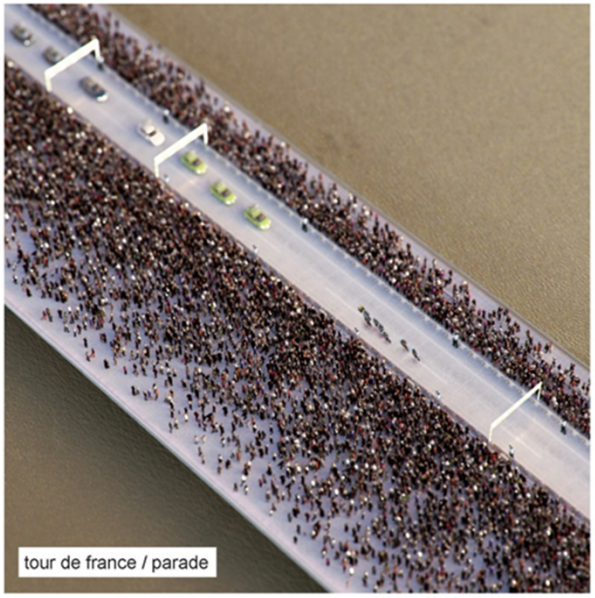
GALERIE VICTOR EMMANUEL II - MILAN

FLEXIBILITÉ

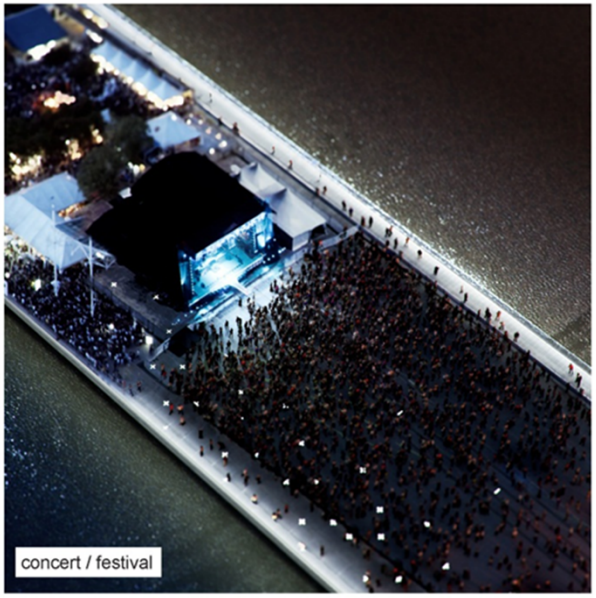













Parce que !



UN TRAJET EN TRAM DU CENTRE VILLE À LA NOUVELLE ARENA

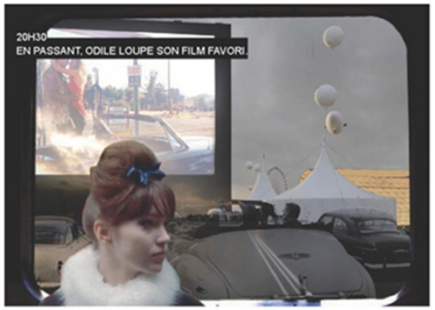






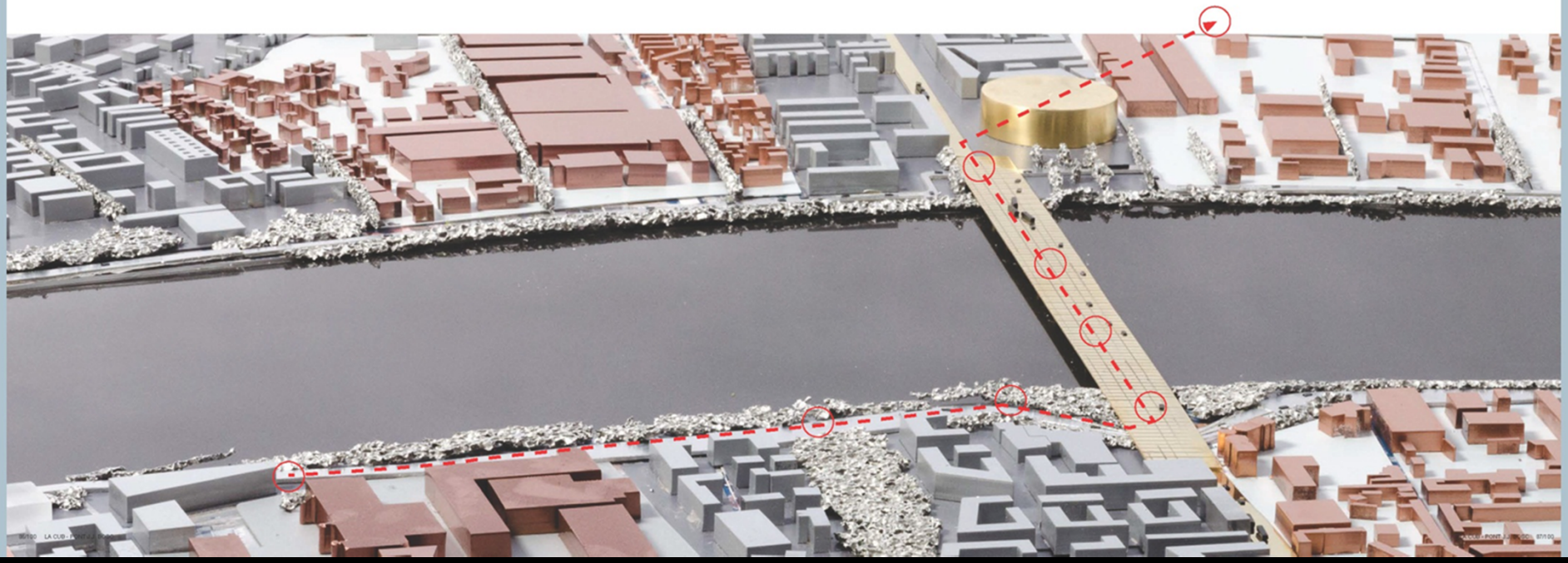


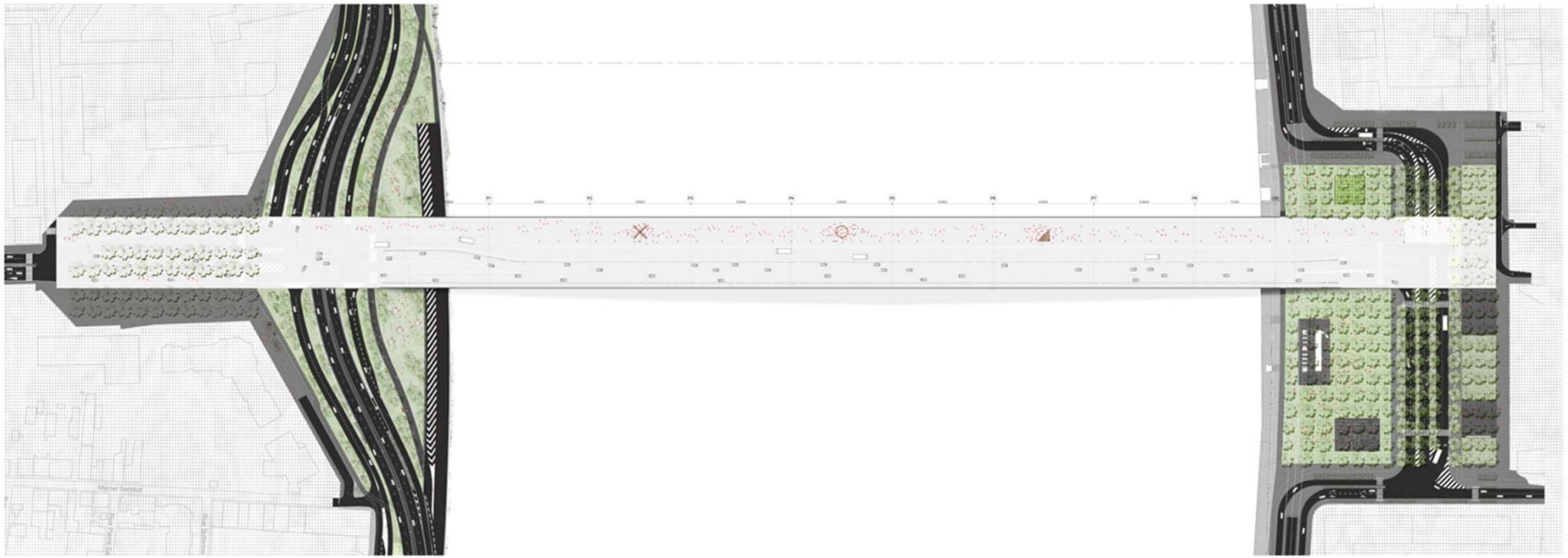




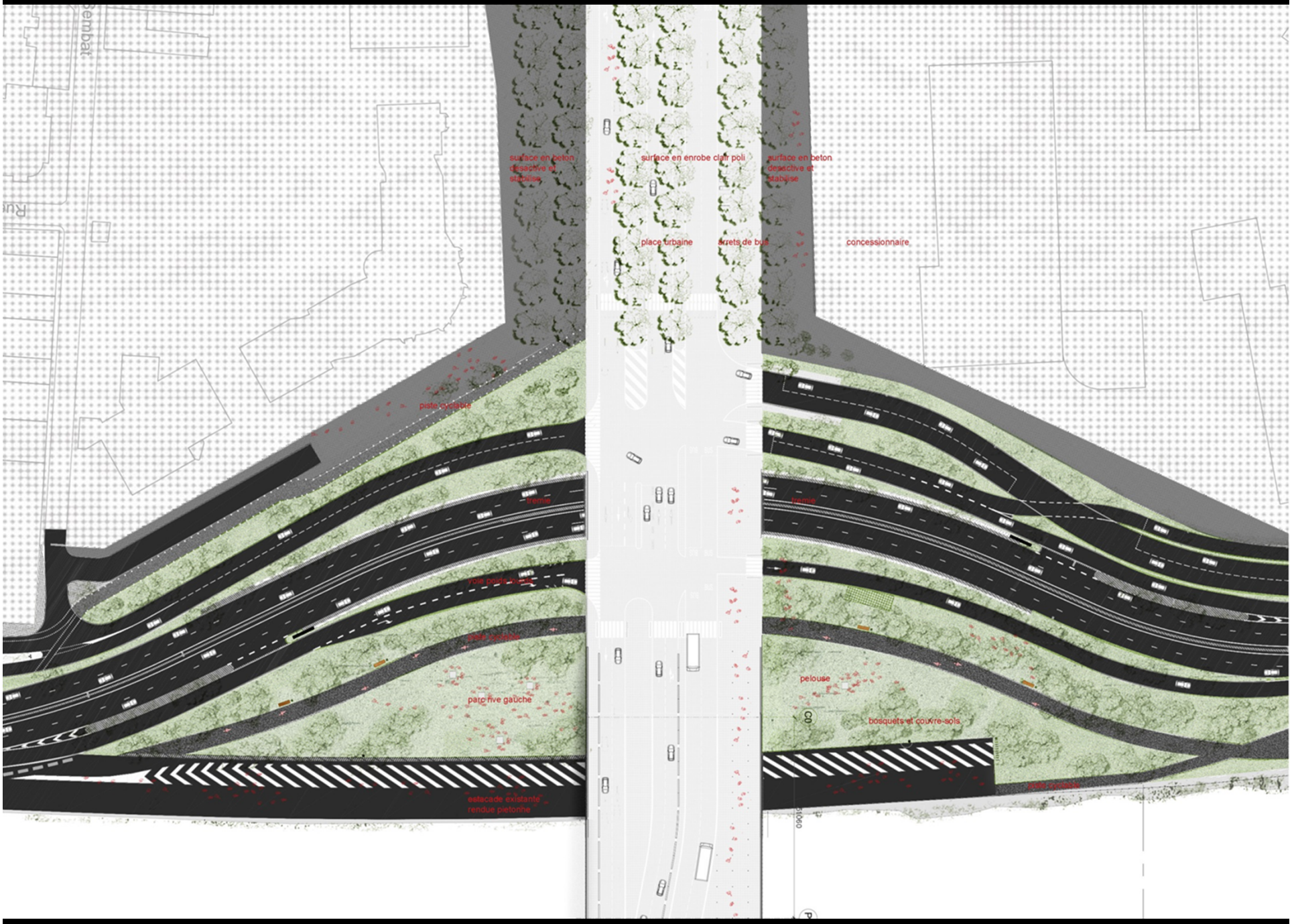








Rue Jules Guesde
Rue de l'Estey
Rue des Steamers
Avenue Jean Alfonséa
Rue
Marcel Sembat
Rue
Rue Pierre Sémard
Rue Solférino


surface en beton
desactive et
stabilise
surface en enrobe clair poli
surface en beton
desactive et
stabilise
place urbaine
arrets de bus
concessionnaire
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tremie
voie poids lourds
piste cyclable
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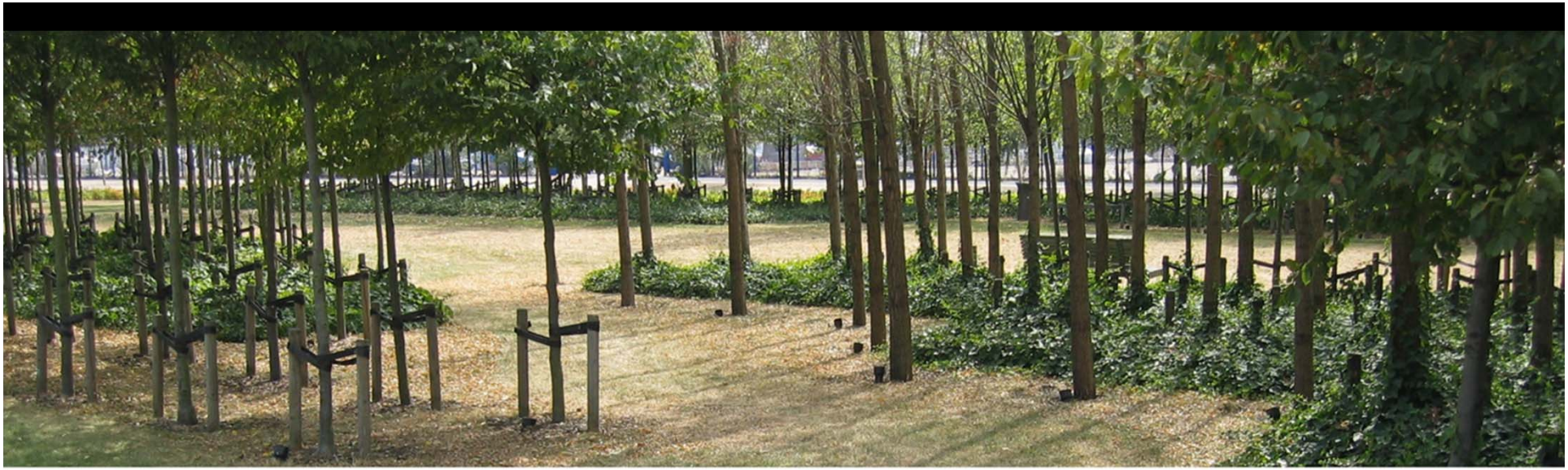
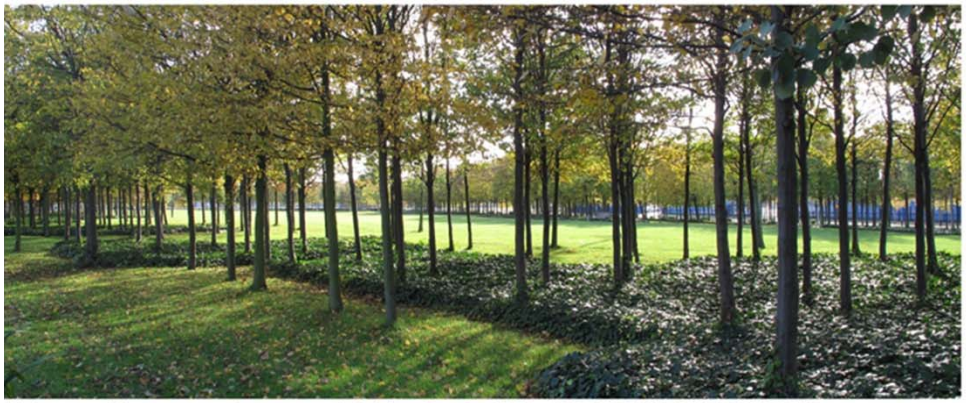
piste cyclable
C0
21060









Ci-dessus: références pour le paysage de la Rive Gauche MDP - GREENWICH PARK LONDRES



Ci-dessus: références de mails de Micocouliers





Ci-dessus: références des plantations d'arbres sur terre-plein central - quai des Queyries à Bordeaux











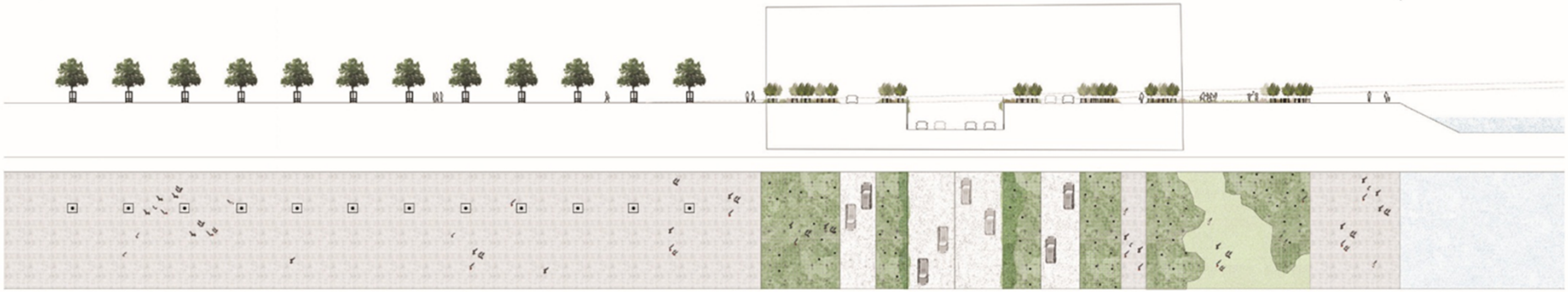




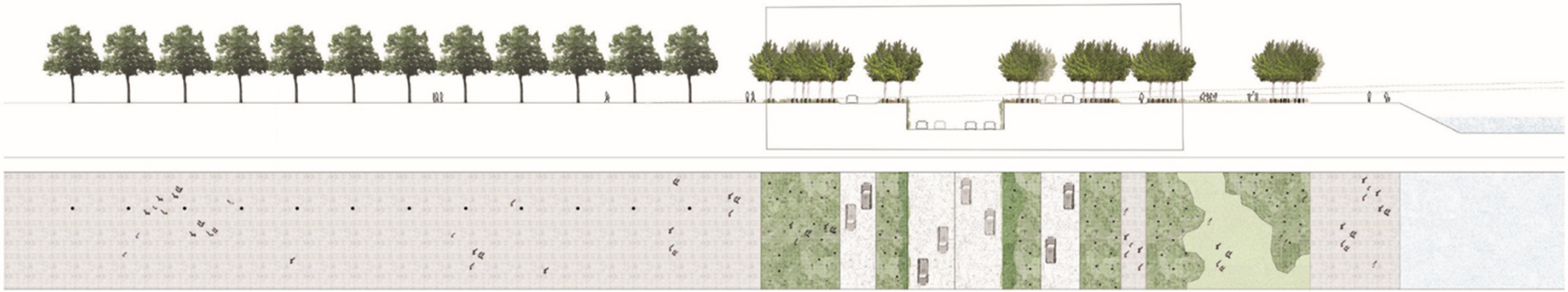

Coupes Transversales



A la plantation:



+ 20ans:

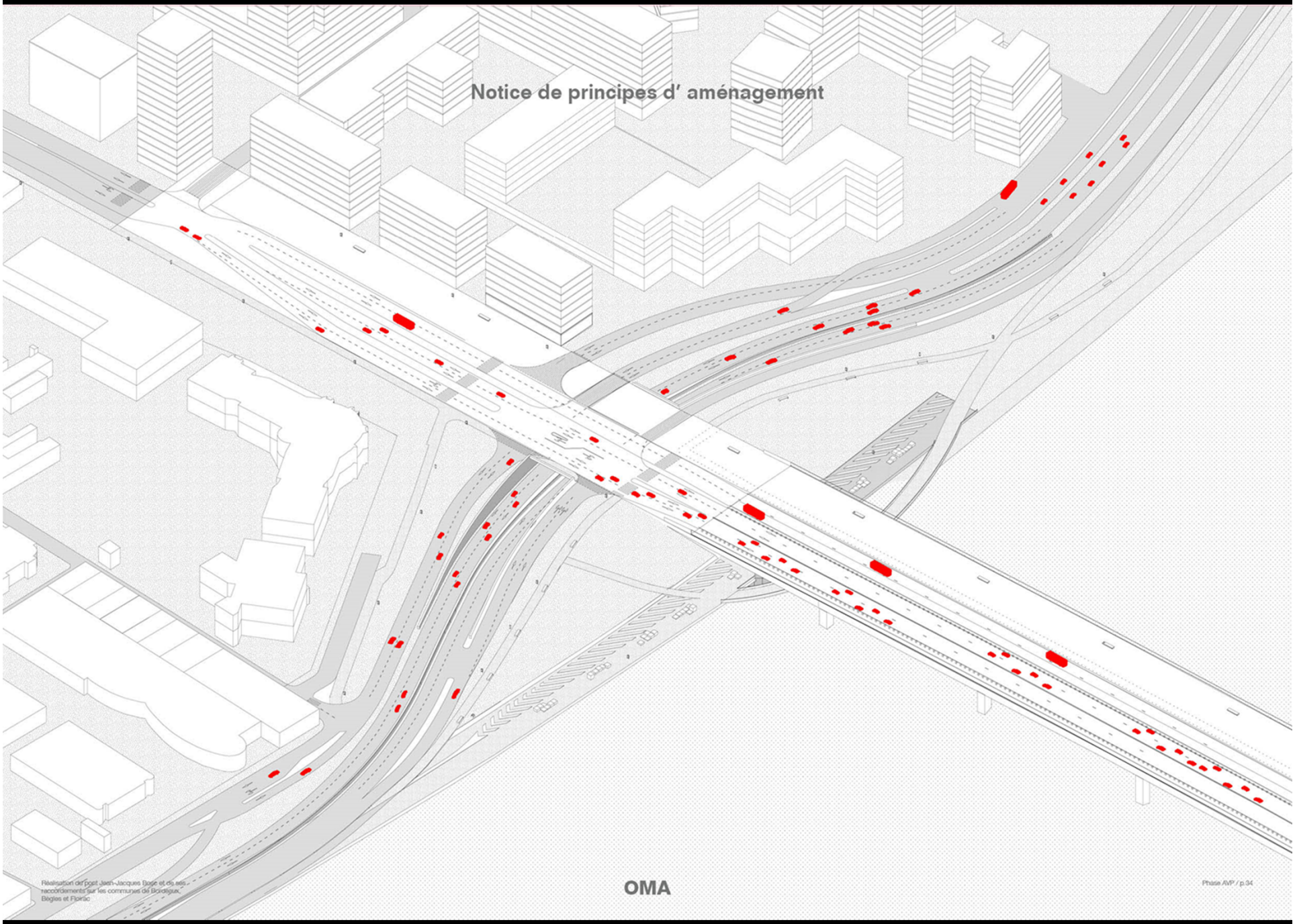


Micocoulier du boulevard Jean Jacques Bosc
136 m

Le boulevard paysager
57 m

Le jardin des berges
50 m

Notice de principes d' aménagement

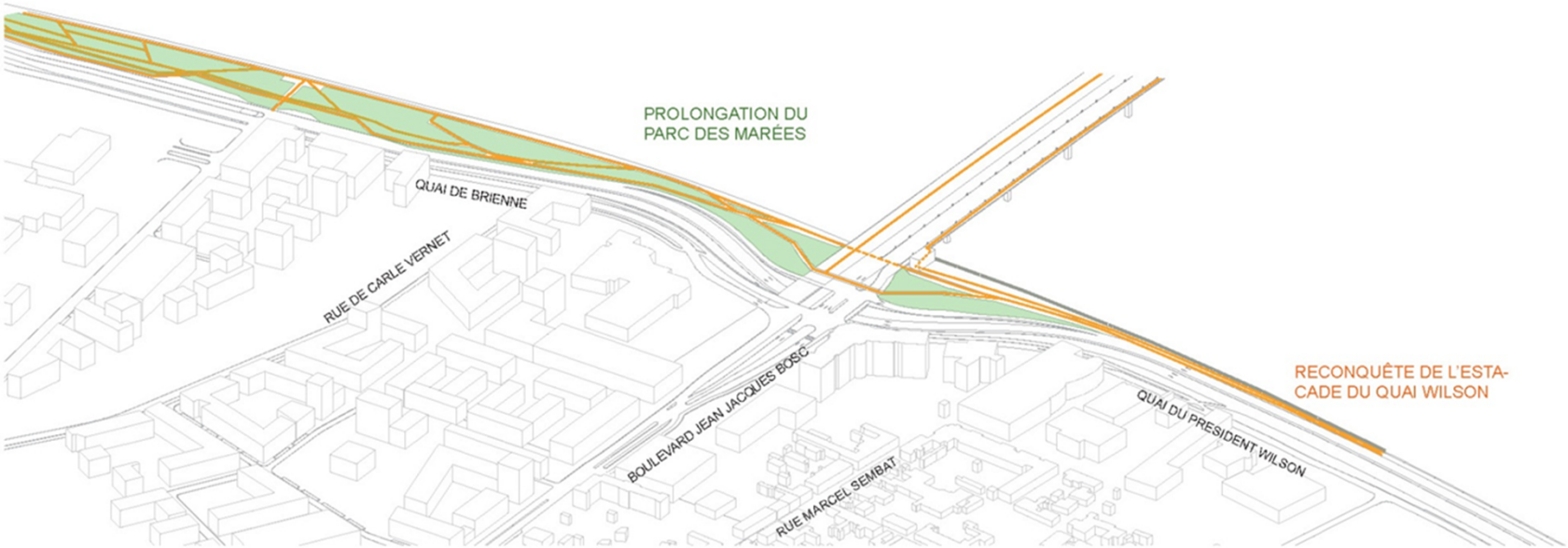


Réalisation du pont Jean-Jacques Bosc et de ses raccordements sur les communes de Bordeaux, Bègles et Floirac

OMA

RECONQUÊTE DES RIVES DE LA GARONNE







Réalisation du pont Jean-Jacques Bosc et de ses raccordements sur les communes de Bordeaux, Bègles et Floirac

OMA

Phase AMP4-p.50


OMA

PROJET NÉGOCIATION

après réduction de la longueur de la trémie



Situation existante et proposée

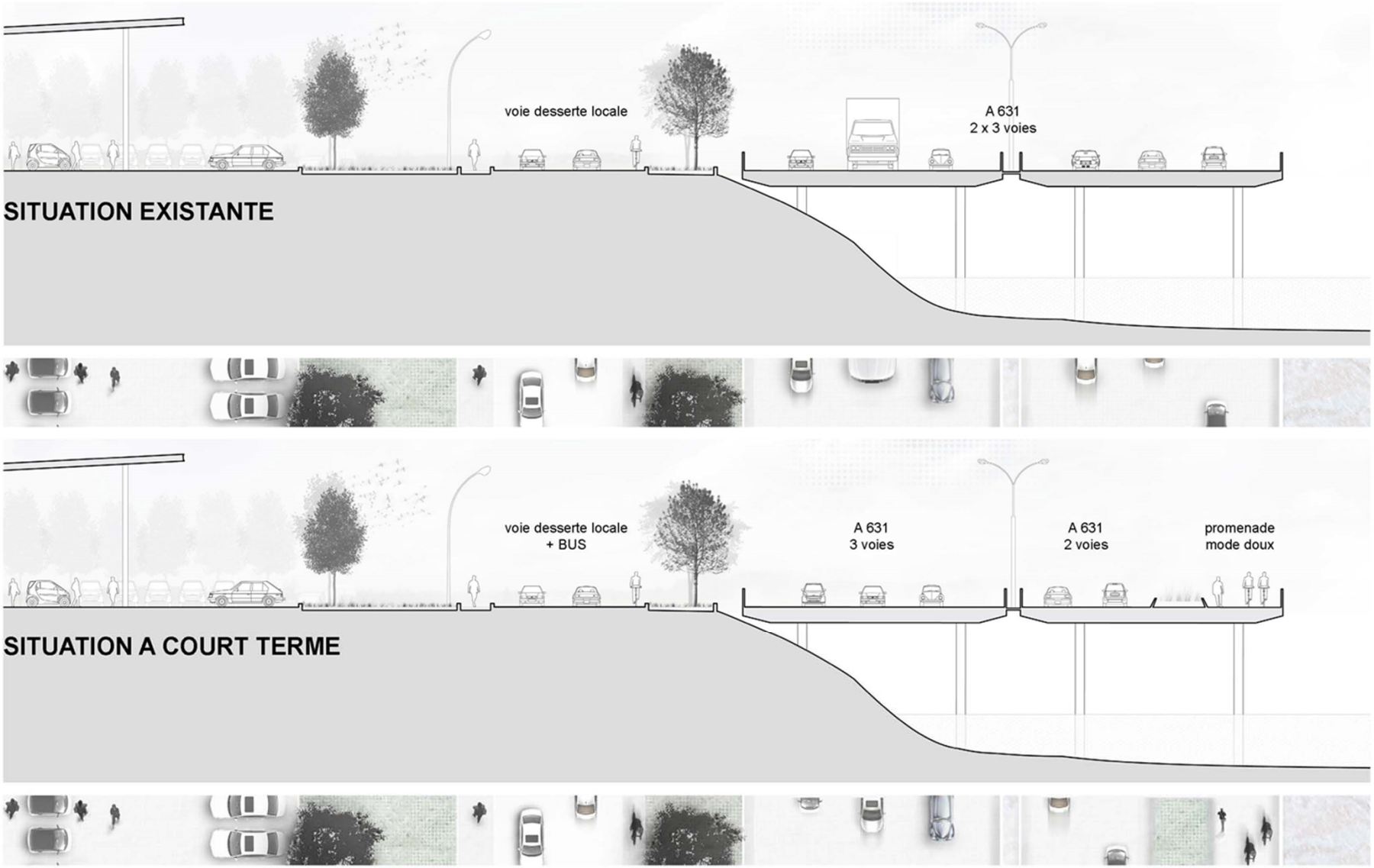




L'estacade / un balcon sur la garonne

OMA

AMORÇAGE DE LA RECONQUÊTE DE L'ESTACADE DU QUAI WILSON



Passerelle sur la Garonne



Réalisation du pont Jean-Jacques Bosc et de ses raccordements sur les communes de Bordeaux, Bègles et Floirac

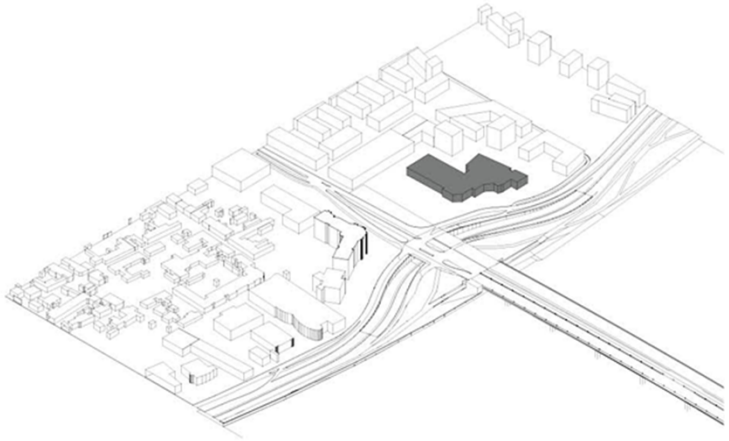
OMA

Phase AVP / p.46

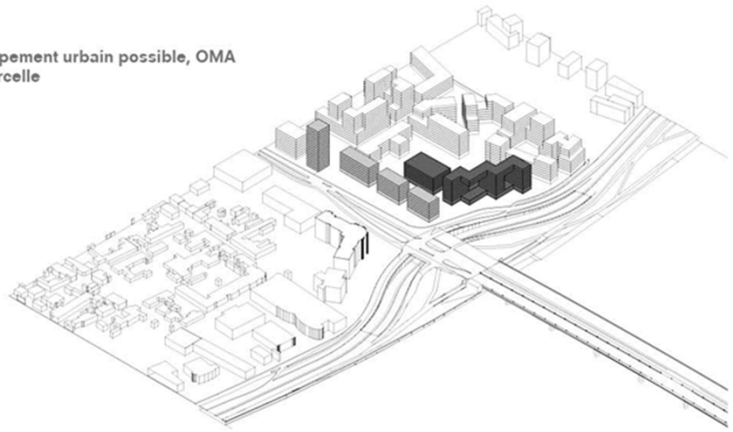

A
OMA

Eléments à developper apres AVP

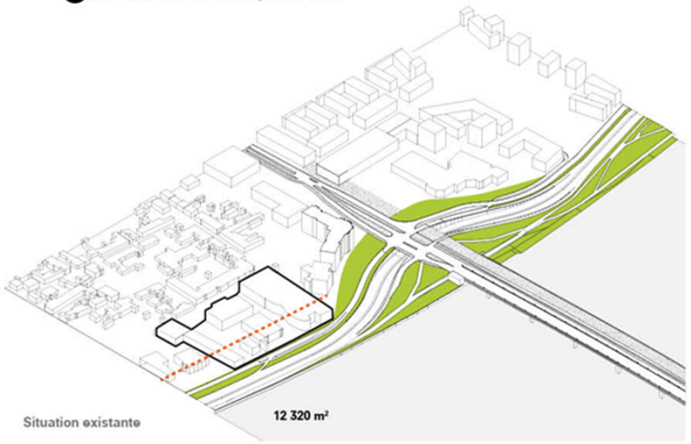
1 Parcelle du magasin BMW - une oportunité urbaine



2 Développement urbain possible, OMA de la parcelle

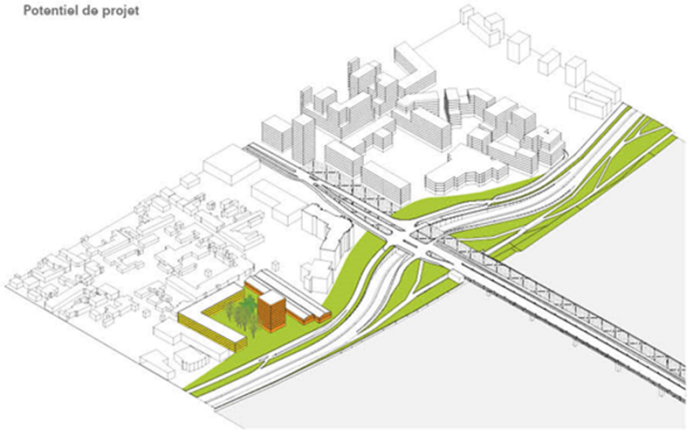


3 Devenir urbain de la partie Sud

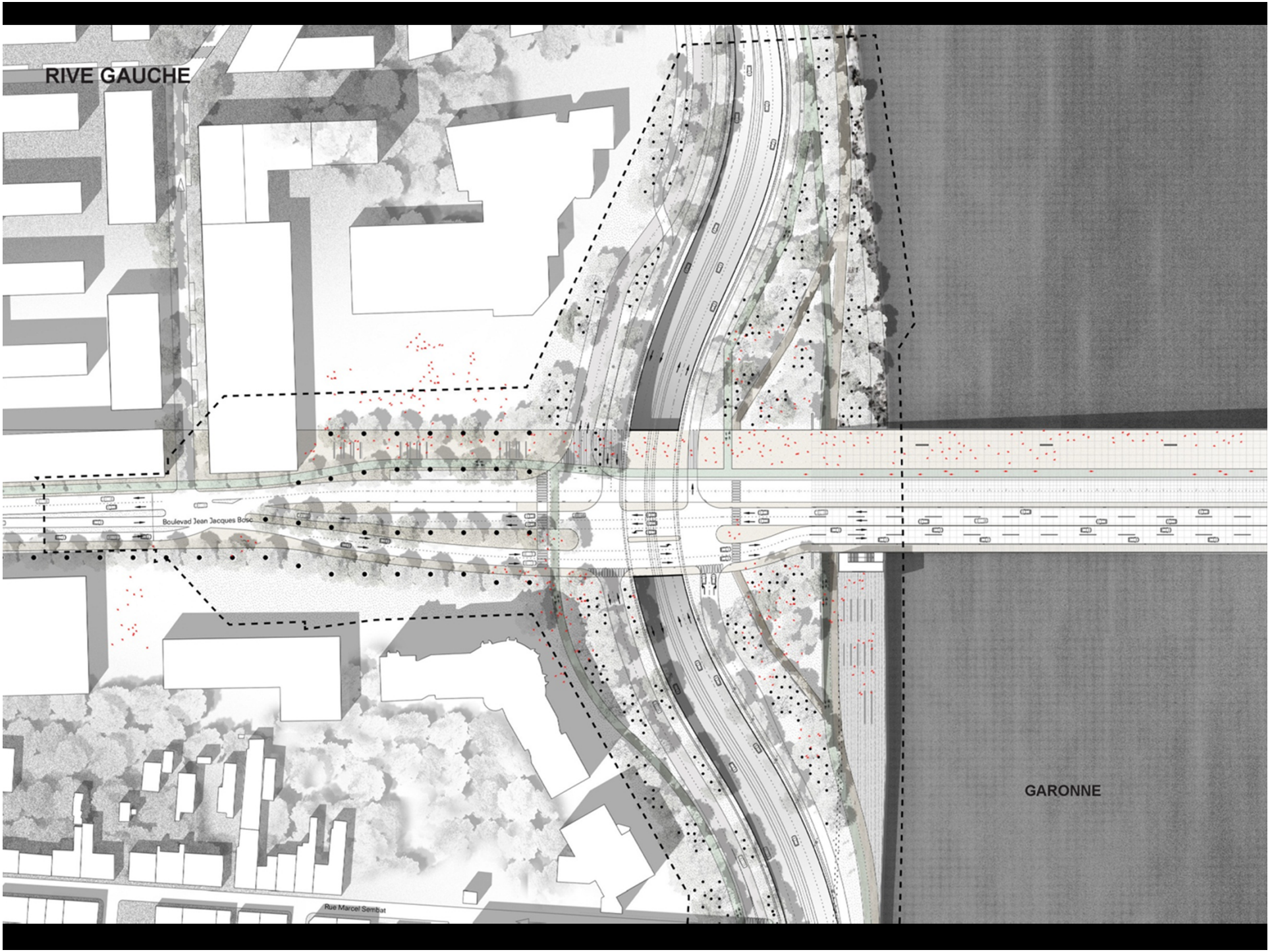


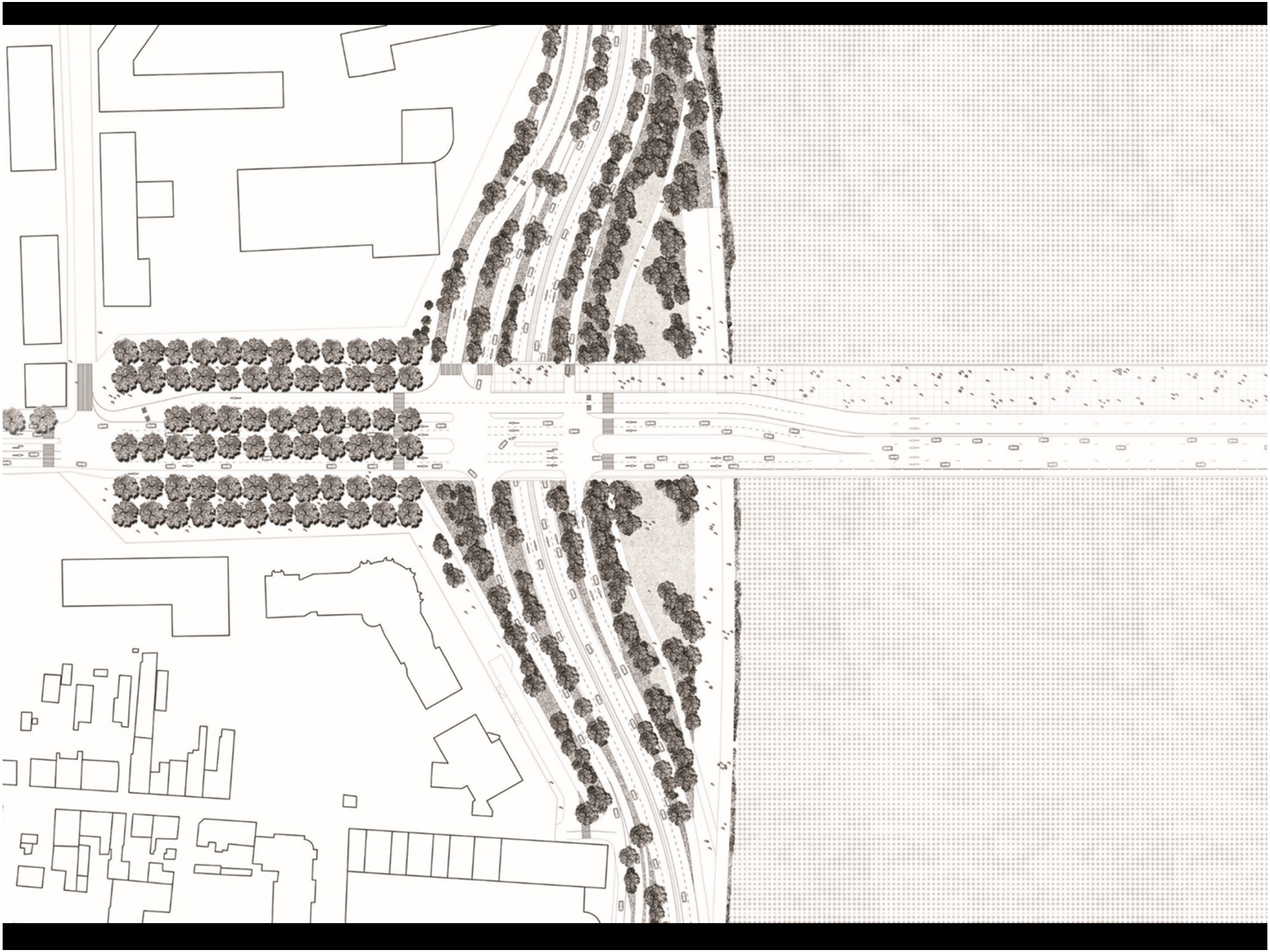
Situation existante

Potentiel de projet





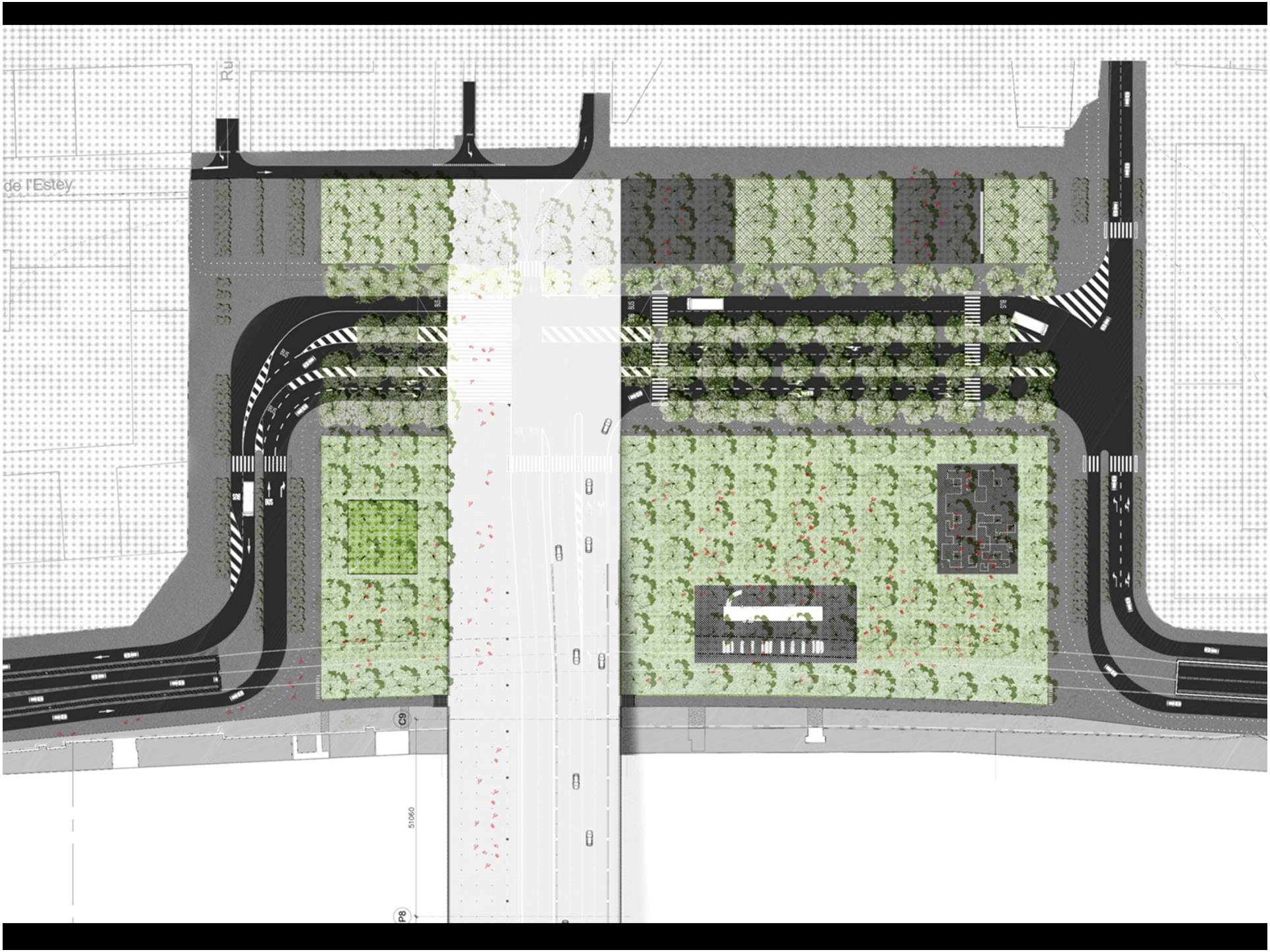

RIVE GAUCHE
Boulevad Jean Jacques Bosc
Rue Marcel Sembat
GARONNE






RIVE DROITE




Ru
de l'Estey
C9
P8
51060





Ci-dessus: références de peuplier sur pelouse au béguinage de Bruges



Ci-dessus: vue aérienne d'une peupleraie



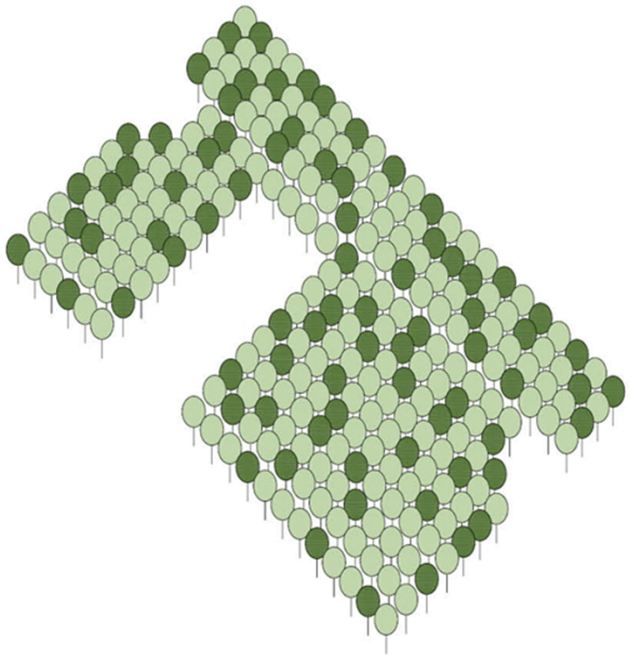


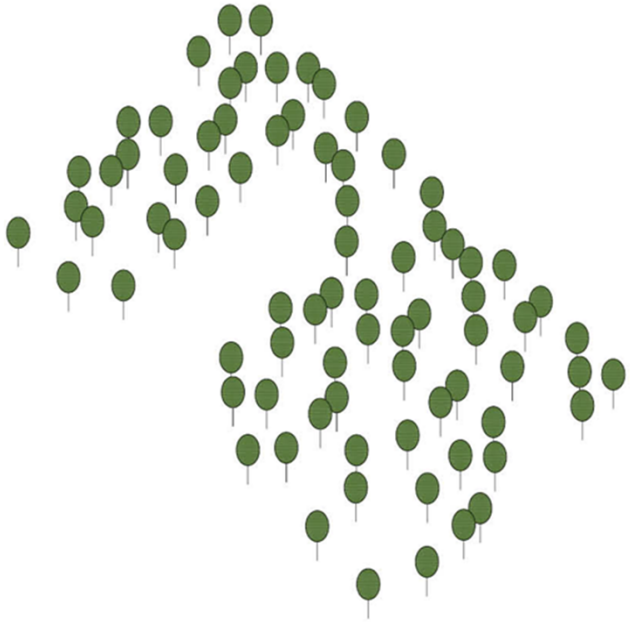
Ci-dessus: références de peupleraie de production



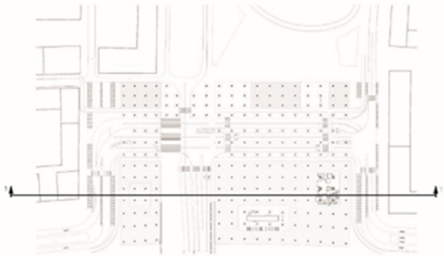
Ci-dessus: références des plantations d'arbres en bandes du Parc aux Angéliques de Bordeaux - MDP

Schéma montrant la possible évolution à long terme de la peupleraie si les peupliers ne sont pas remplacés dans le temps





Coupes Transversales

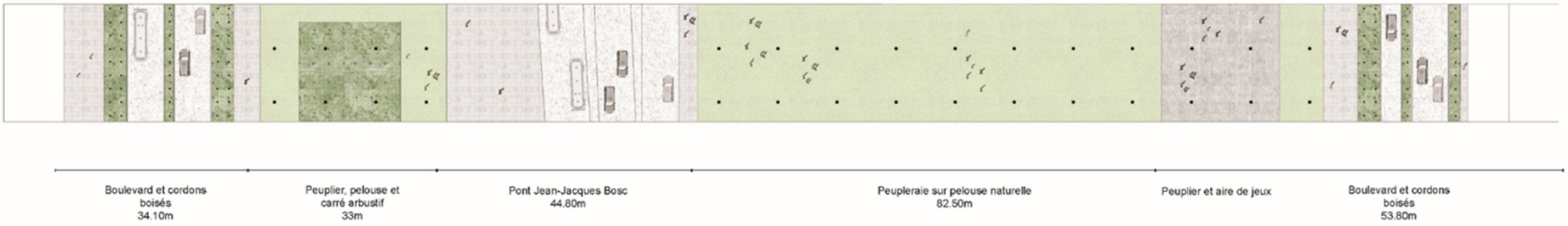


A la plantation:

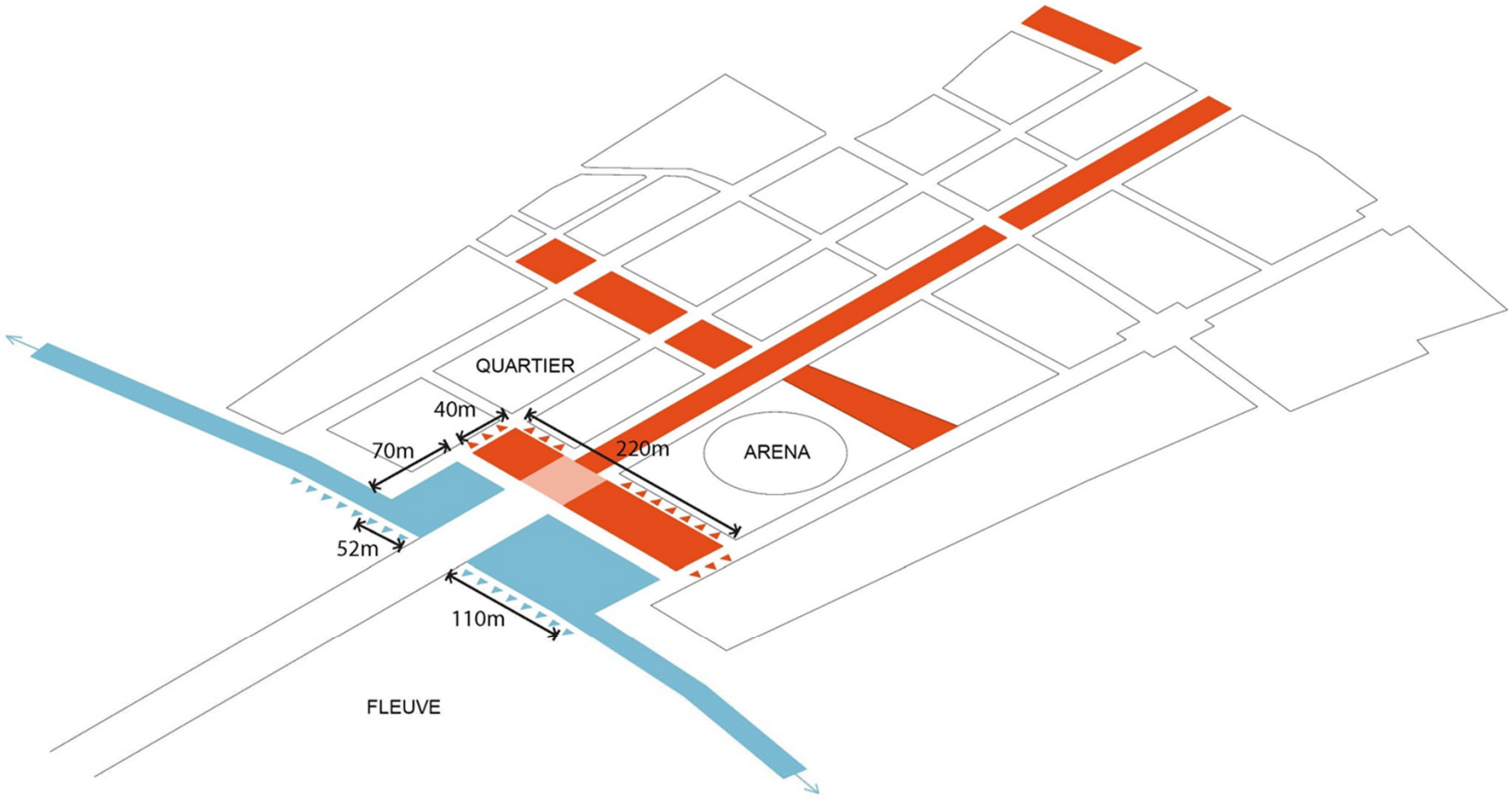


+ 20 ans:

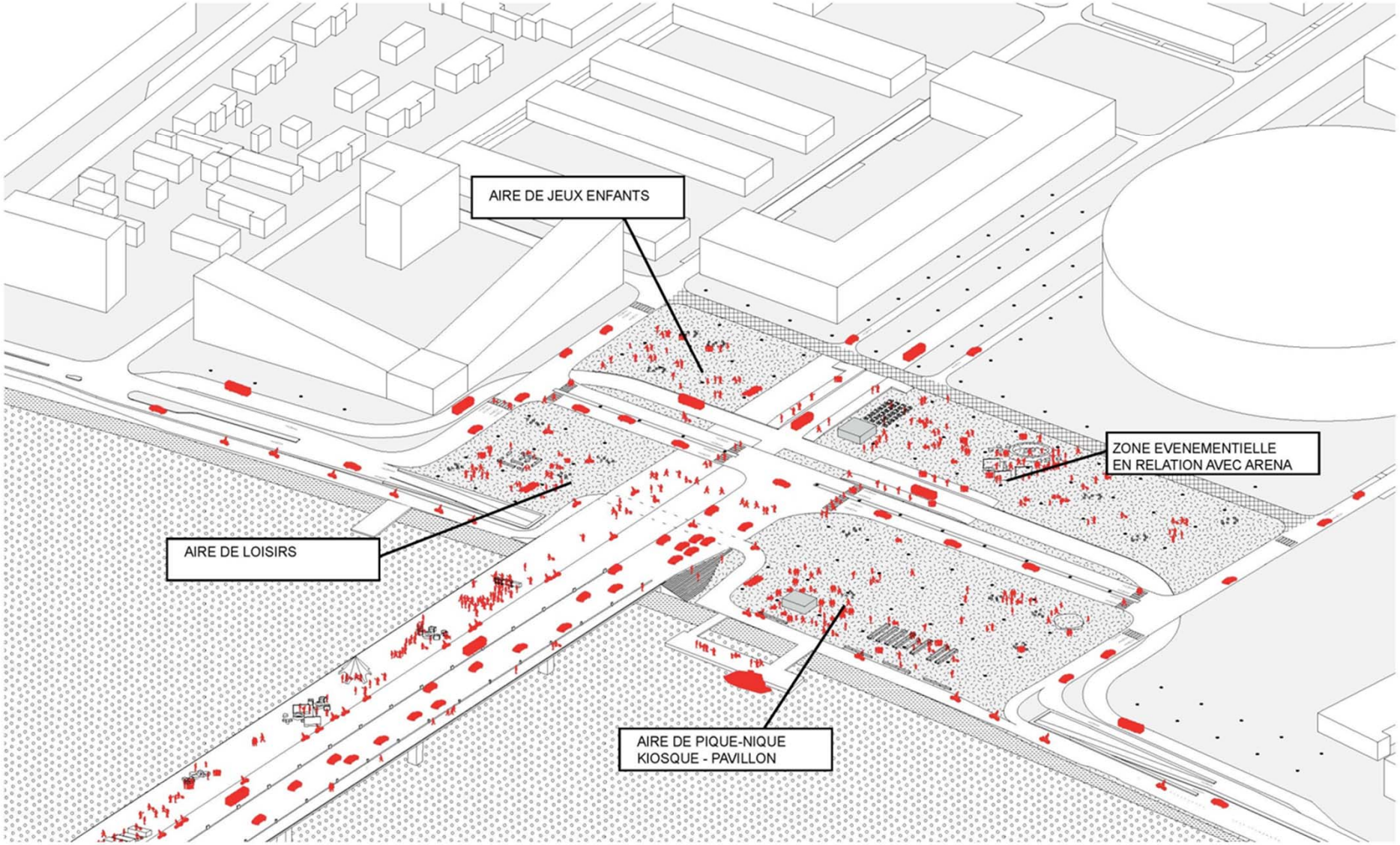




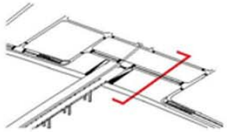
ÉCHELLES DE L'ESPACE PUBLIC

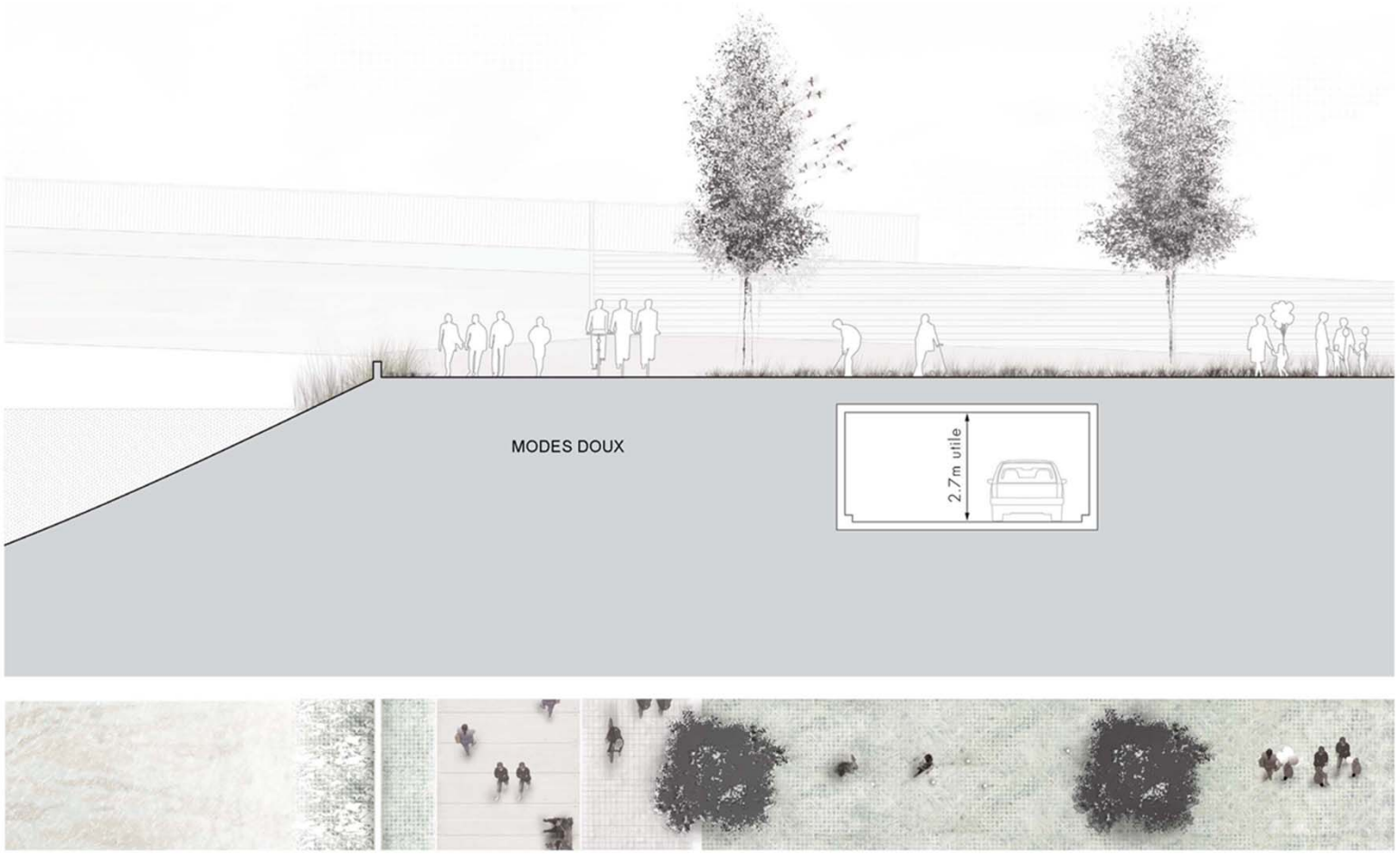


USAGES DE LA PEUPLERAIE



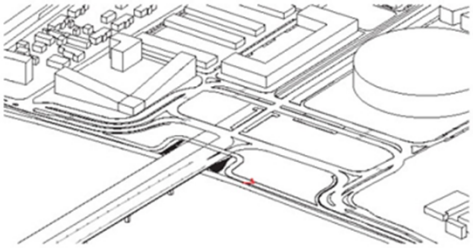
COUPE TRANVERSALE DANS LA PEUPLERAIE





PROJET NÉGOCIATION

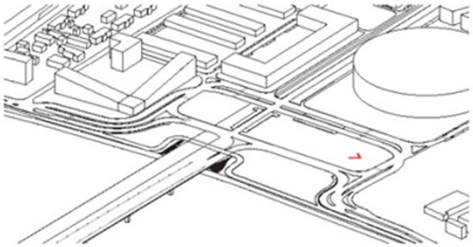
après la suppression totale de la trémie





PROJET NÉGOCIATION

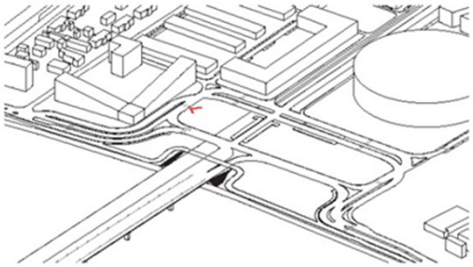
après la suppression totale de la trémie



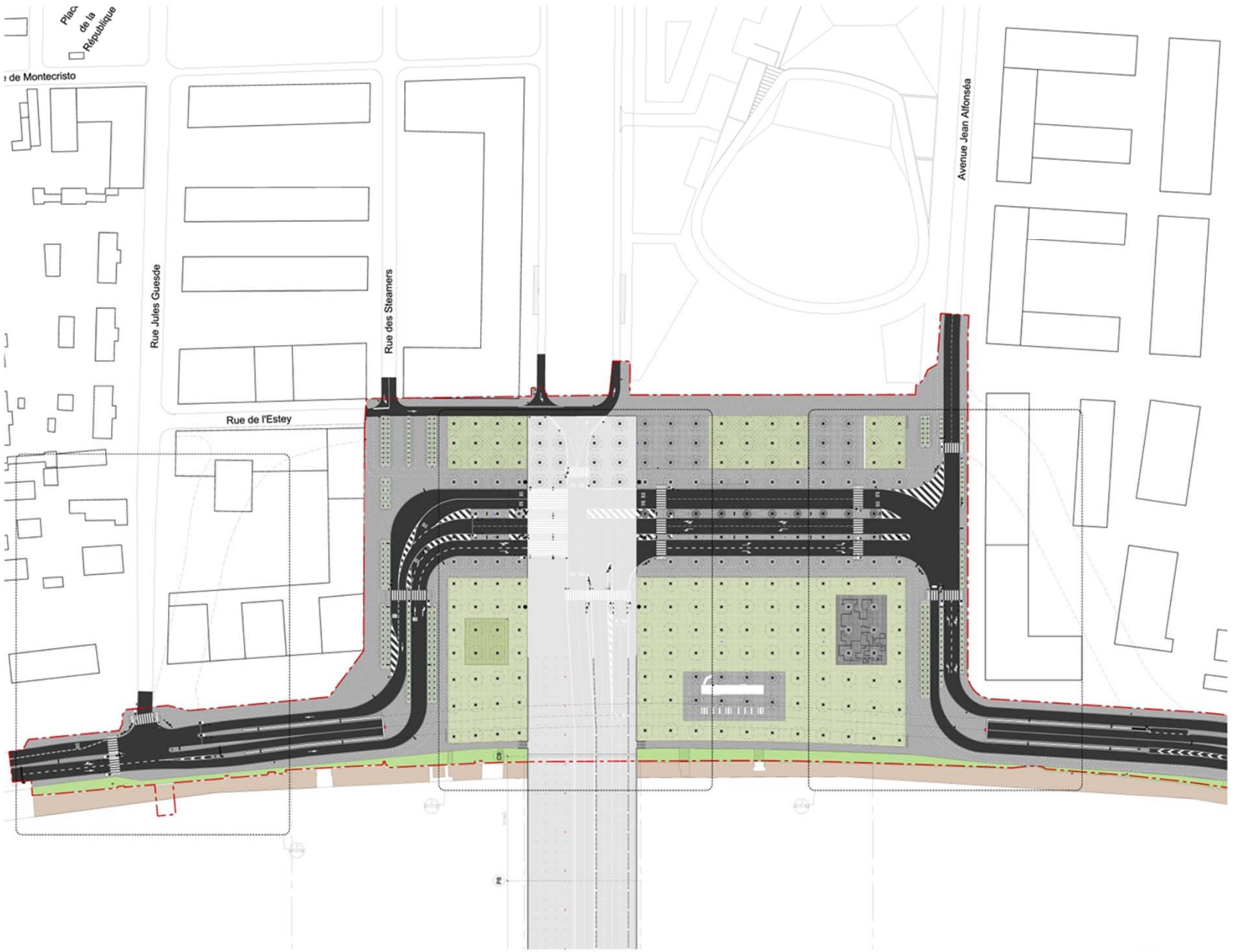


PROJET NÉGOCIATION

après suppression totale de la trémie







1 PLAN
ECHELLE 1:500

PROJET

PONT JEAN-JACQUES BOSC

RÉALISATION DU PONT JEAN-JACQUES BOSC
ET DE SES RACCORDEMENTS SUR LES COMMUNES
DE BORDEAUX, BÈGLES ET FLORAC

MAITRISE D'OUVRAGE

BORDEAUX MÉTROPOLE
Esplanade Charles-de-Gaulle
33076 Bordeaux cedex
France

MAITRISE D'OEUVRE

ARCHITECTE MANDATAIRE

OMA
Office for Metropolitan Architecture
Heer Bokelweg, 149
3032 AD Rotterdam
Pays-Bas

INGENIERIE

EGIS
Avenue de la résistance
33 305 Lormont
France

INGENIERIE TABLIER DU PONT

WSP
Hakkilantie, 7
F1-00210 Helsinki
Finlande

PAYSAGISTE

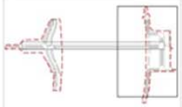
MPO
Mathis/Vestalen-Pyrenees
75 004 Paris
France

LUMIERE

LUMIERE STUDIO ON SWITCH
Rue du Faubourg Saint-Denis, 155
75 010 Paris
France

- Pelouse
- Couvre sol
- Pelouse renforcée
- Enrobé poli
- Enrobé route
- Bordures sécurité béton
- Enrobé trottoir
- Béton désactivé
- Stabilisé
- Stabilisé teinte noire
- Sol souple
- Berges existantes
- Renforcement des berges
- Grille métallique
- Périmètre
- Bouche d'arrosage

REVISION	DATE	DESCRIPTION



RIVE DROITE
PLAN GENERAL
PLAN DE SURFACE

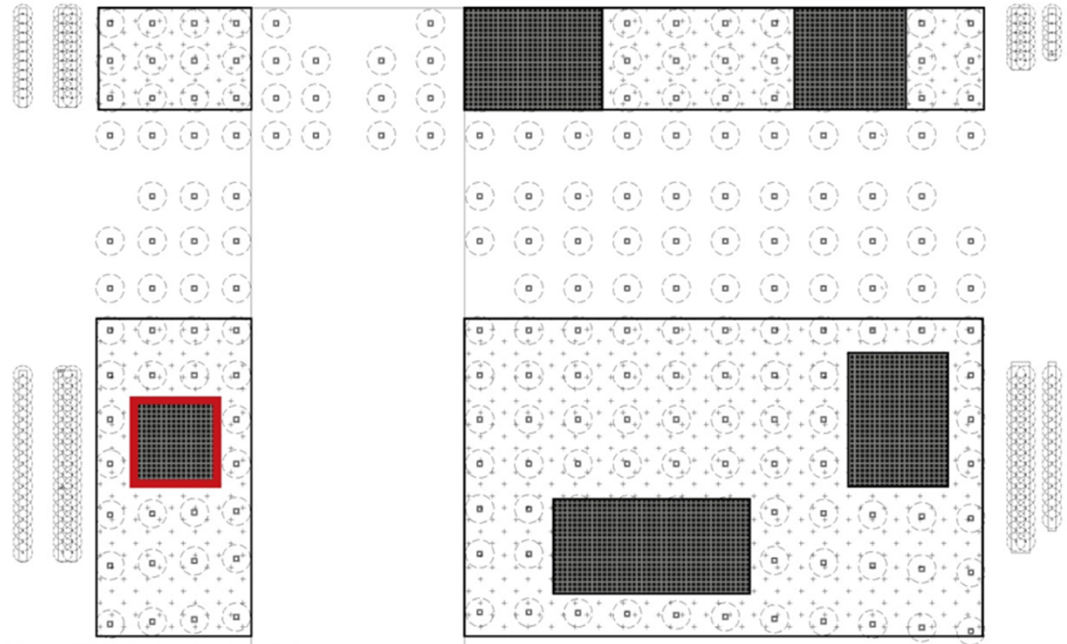
NOM DU DESSIN

PRO — PHASE DU PROJET
0 — REVISION

11010338 — NR DU PROJET
1 : 500 — ECHELLE
A0 — FORMAT
17-07-2015 — DATE

OMA-PRO-PLN-ARC-A2-10-120

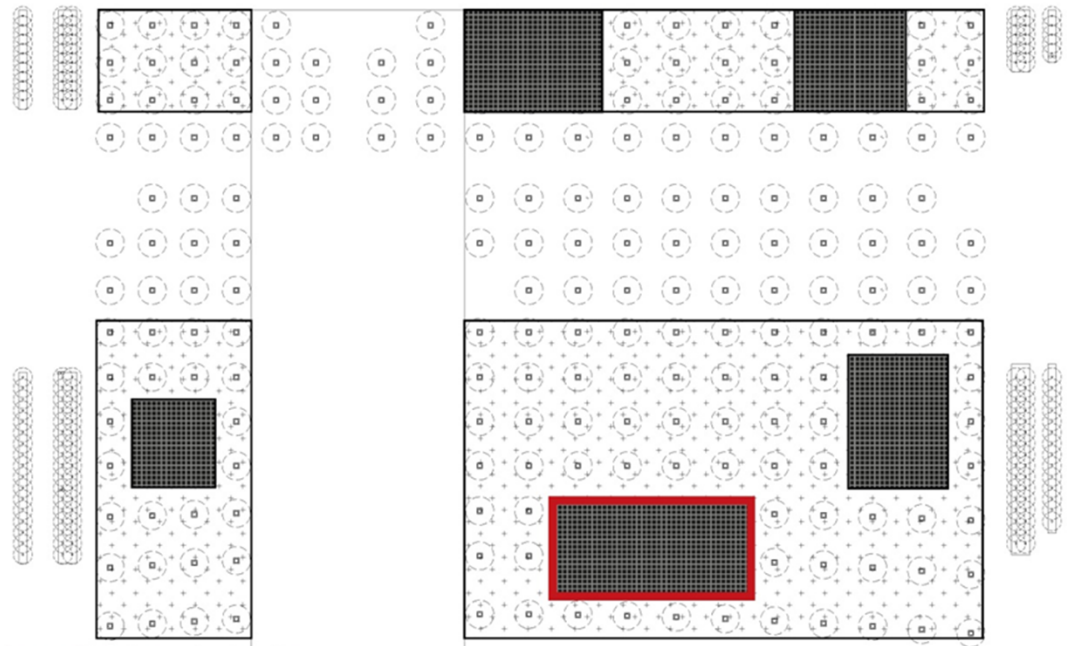
NR DU PLAN



Localisation du tapis



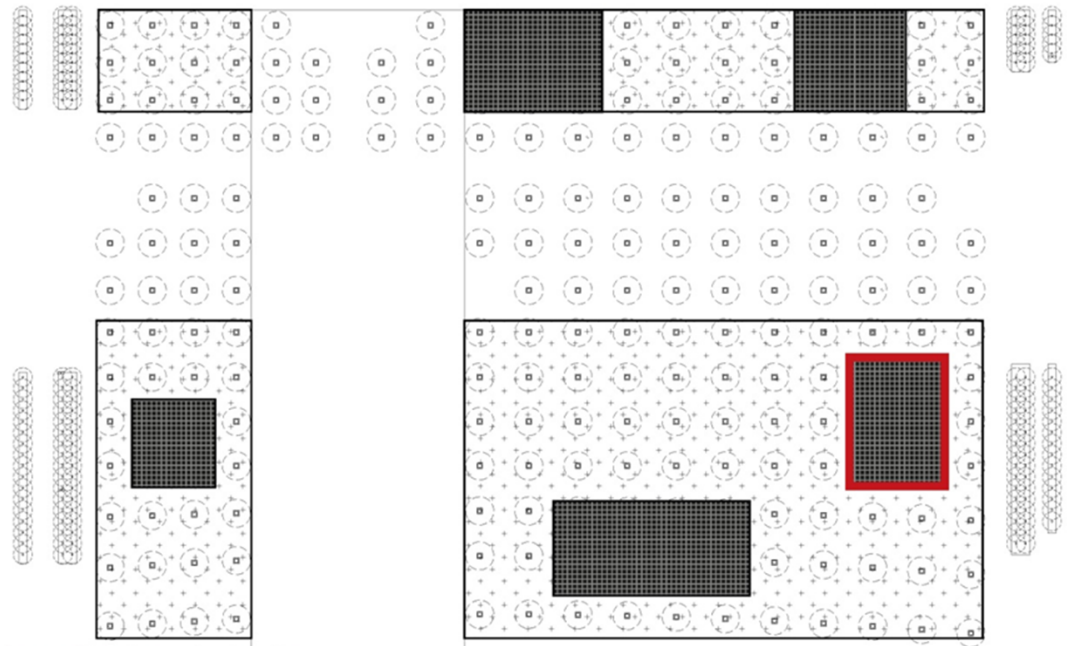




Localisation du tapis

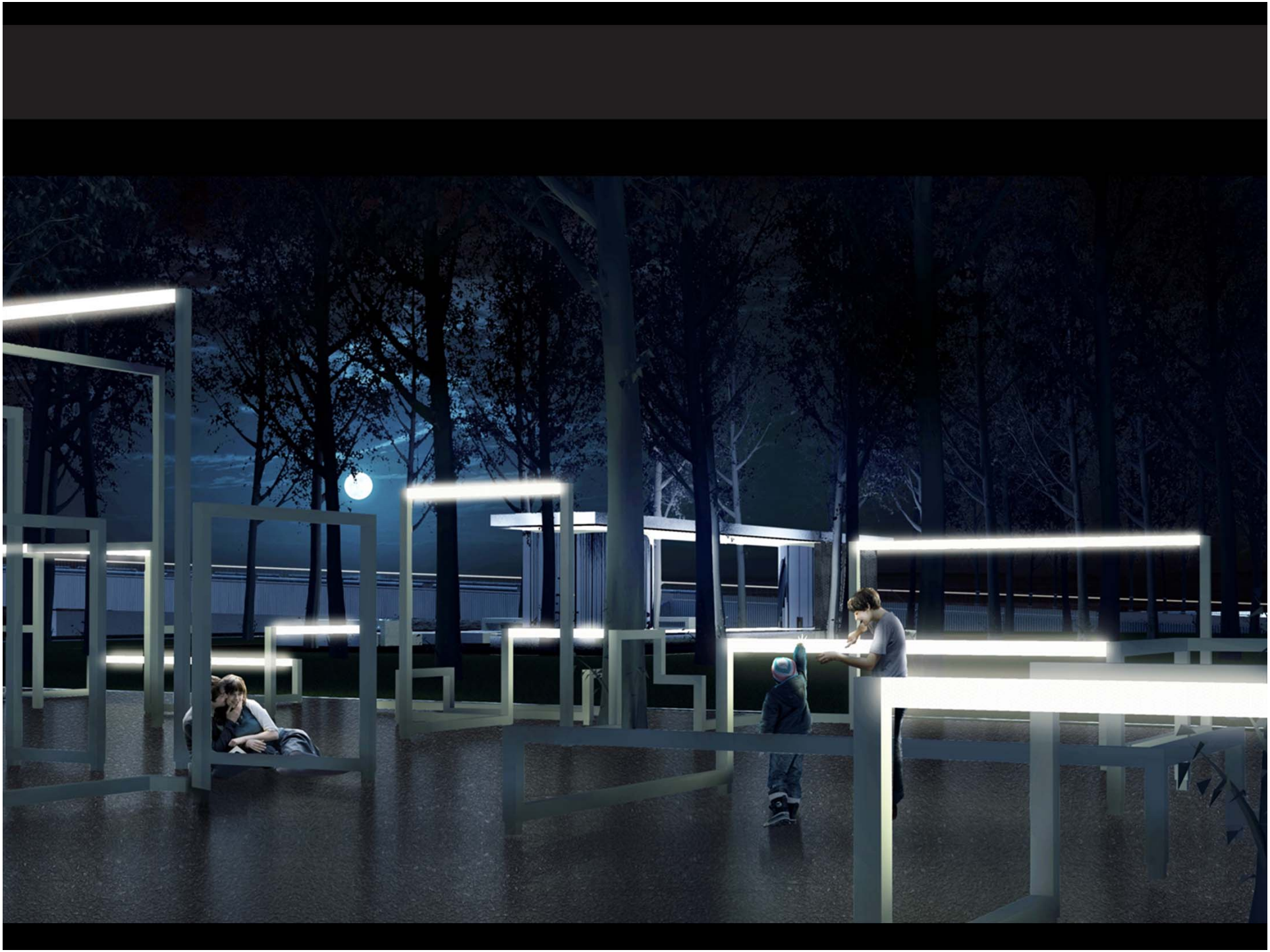




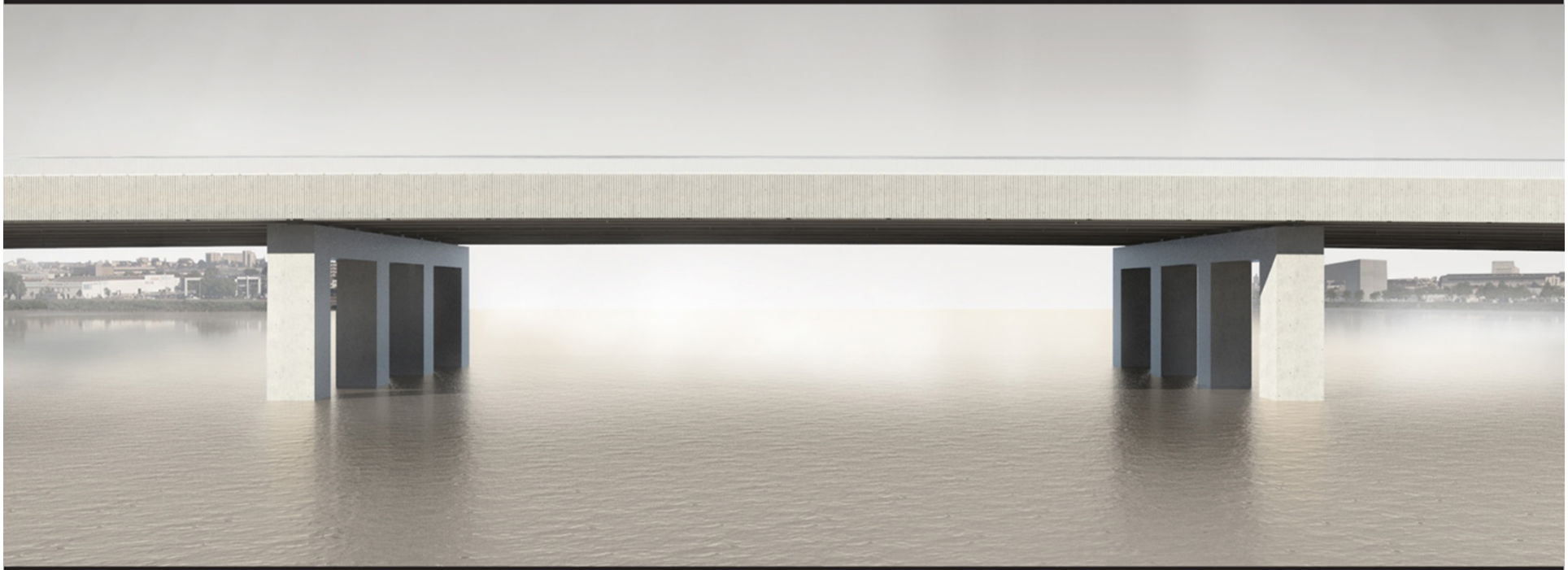


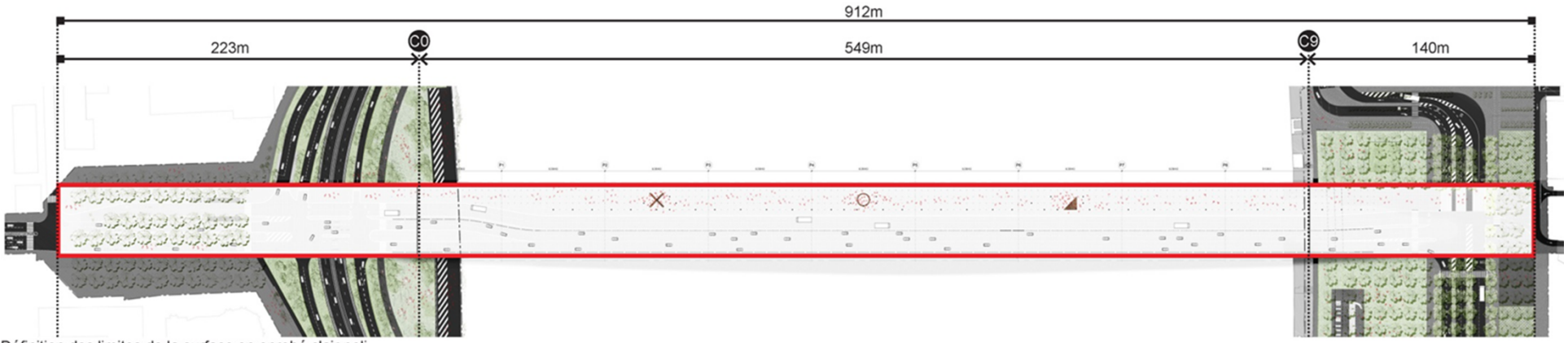
Localisation du tapis






Réalisation du pont Jean-Jacques Bosc et de ses raccordements sur les communes de Bordeaux, Bègles et Floirac
OMA
Phase AVP / p.92





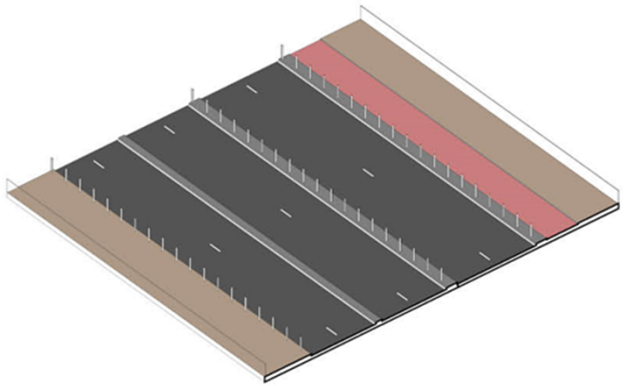
Définition des limites de la surface en enrobé clair poli







Pont proposé



Pont typique

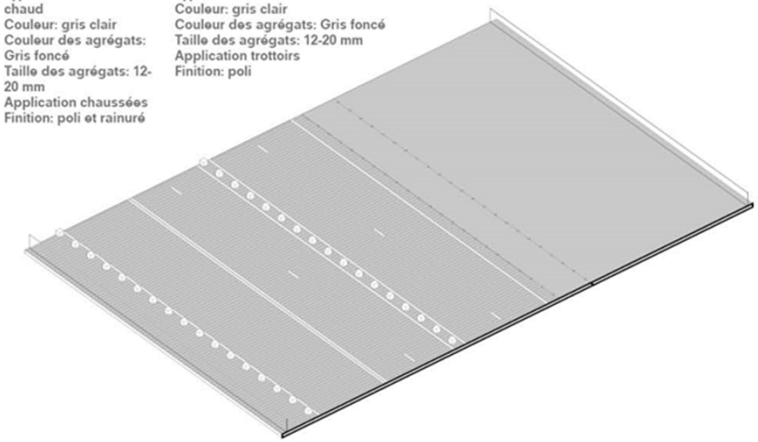
-Un materiau de sol pour chaque usage dedié
-Des bordures et trottoirs divisent l'espace



ENROBE rainuré
Type: enrobé coulé à chaud
Couleur: gris clair
Couleur des agrégats: Gris foncé
Taille des agrégats: 12-20 mm
Application chaussées
Finition: poli et rainuré



ENROBE poli
Type: enrobé coulé à chaud
Couleur: gris clair
Couleur des agrégats: Gris foncé
Taille des agrégats: 12-20 mm
Application trottoirs
Finition: poli

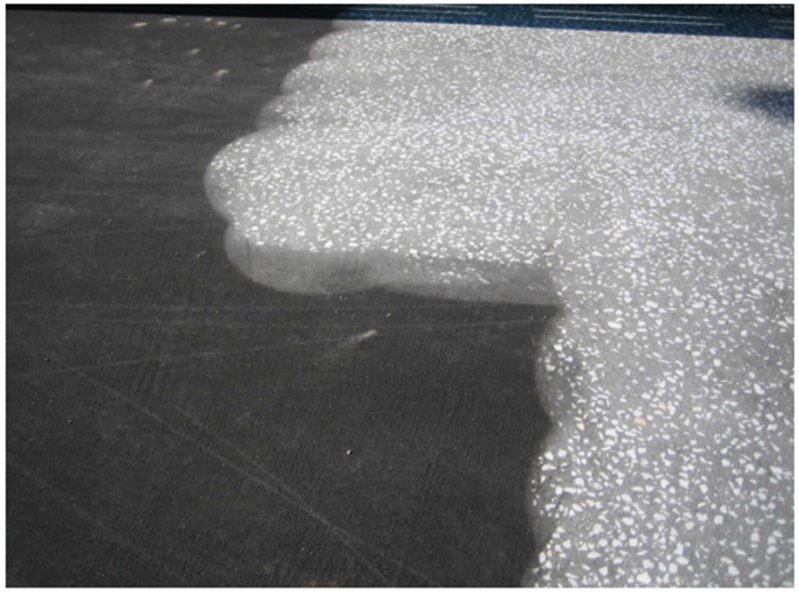


Pont Jean Jacques Bosc

Un materiau unique sur toute la largeur (deux types de finitions)
Enrobé support d'un espace multifonctionnel et flexible

REVETEMENT SUR LE PONT

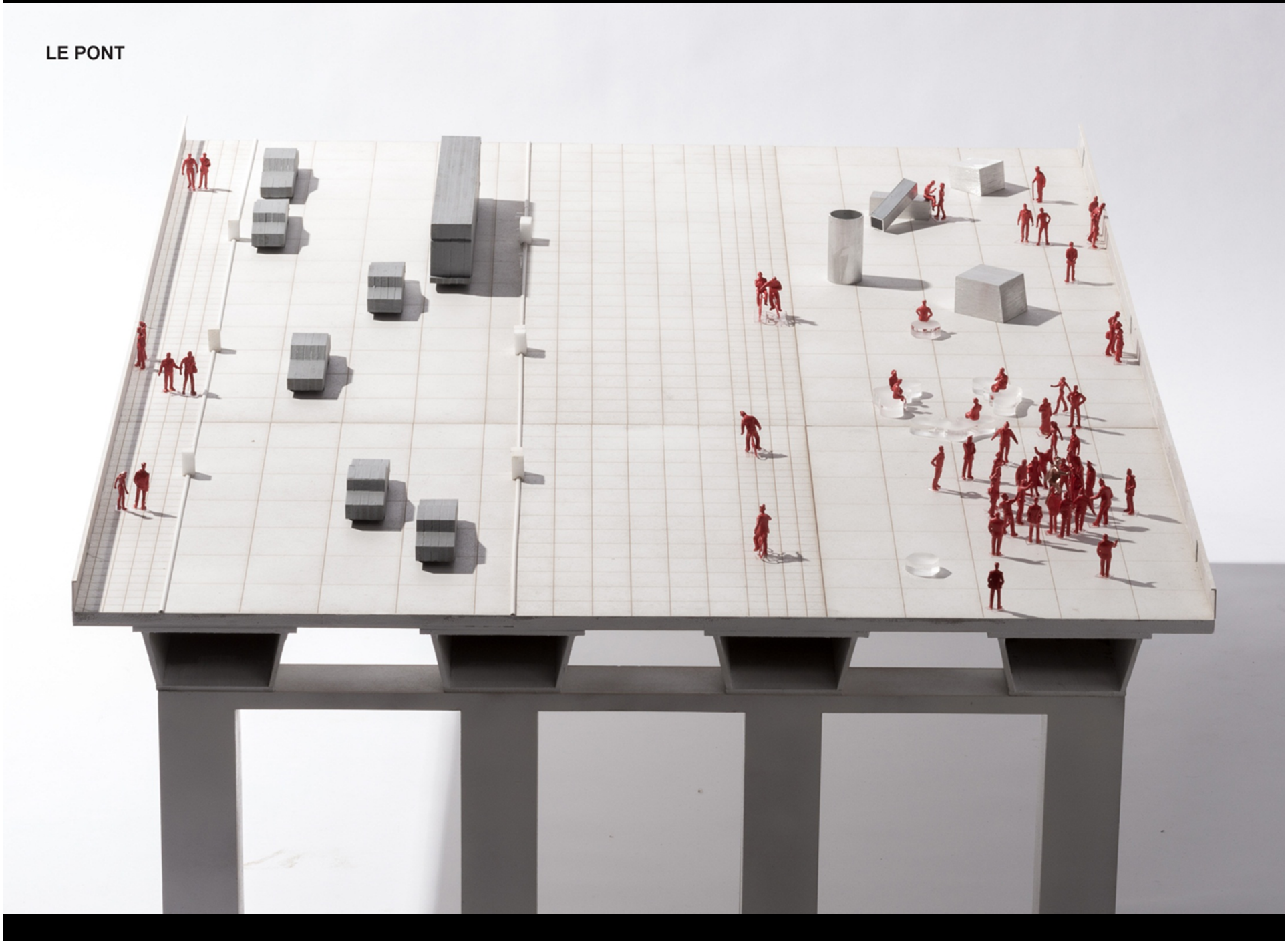
L'ENROBÉ POLI AVEC AGRÉGATS APPARENTS

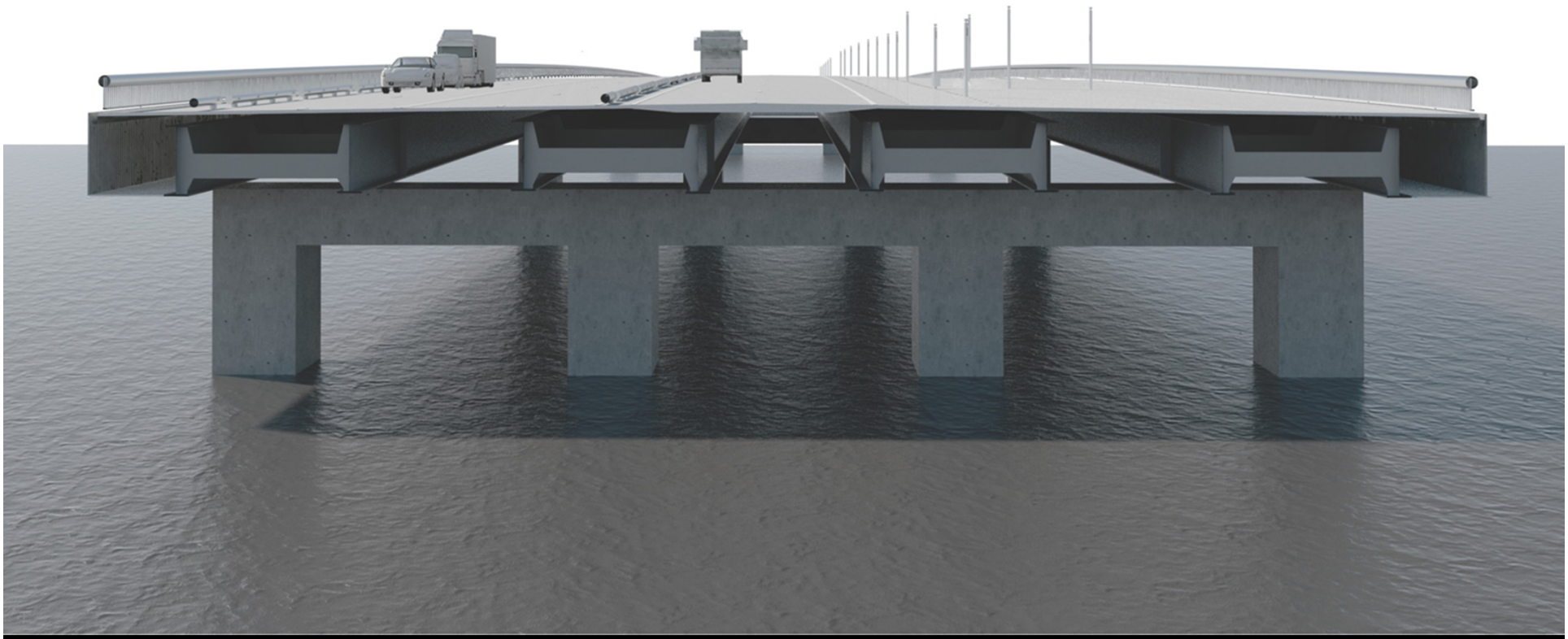


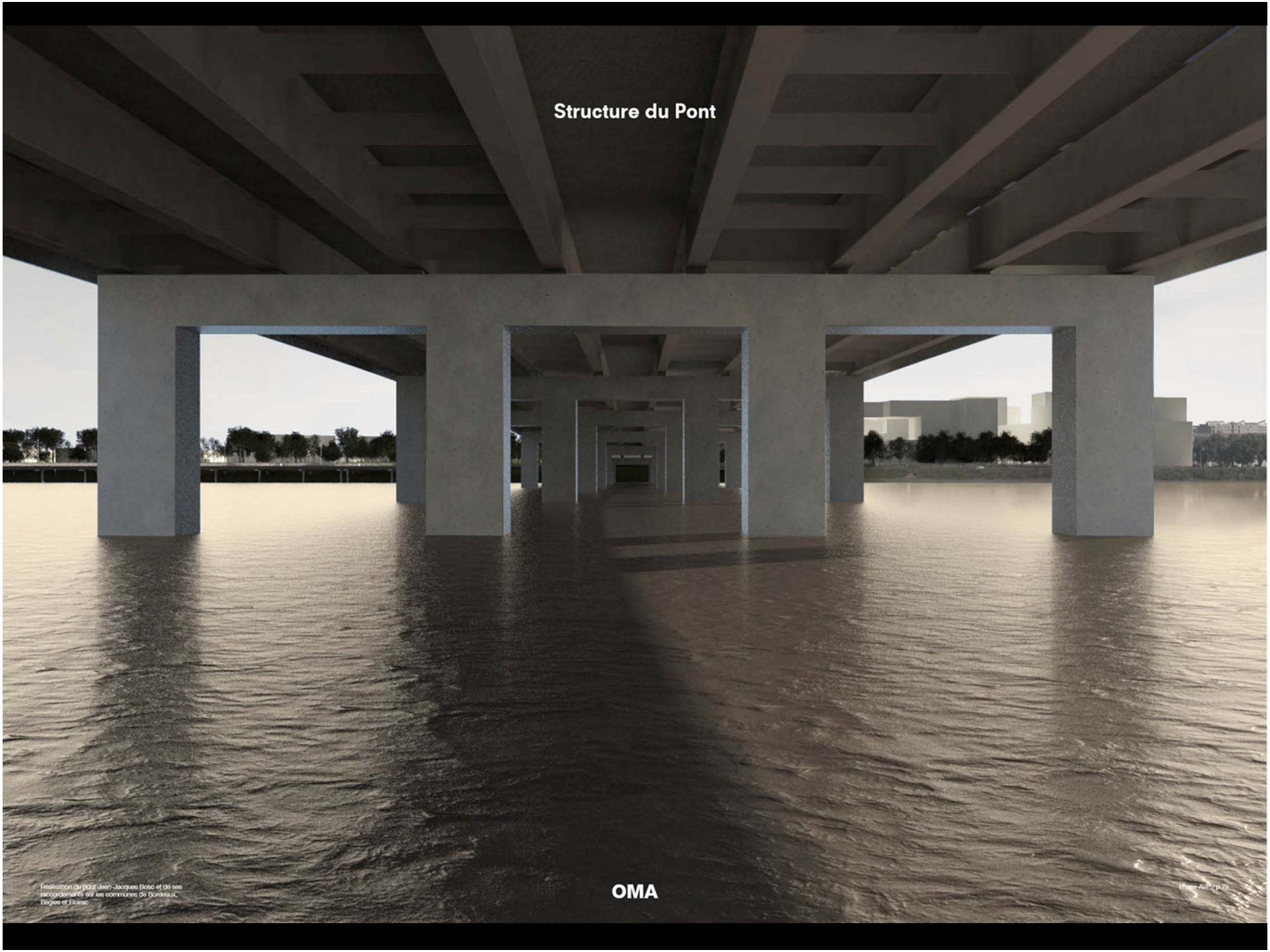


références - Burgos Boulevard - MDP

LE PONT







Réalisation du pont Jean-Jacques Bosc et de ses raccordements sur les communes de Bordeaux, Bègles et Floirac

Phase AVP - p.29

Pont



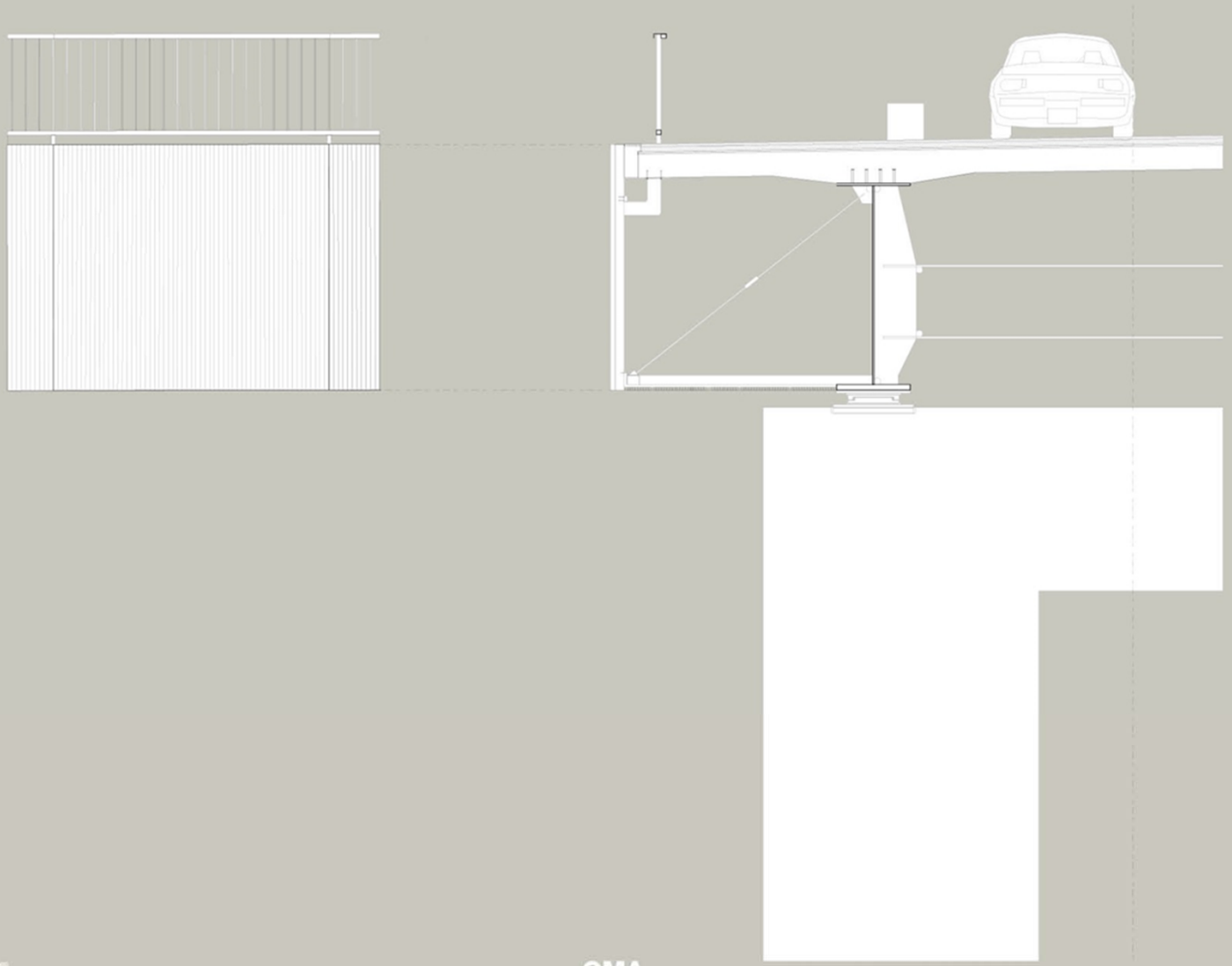
Réalisation du pont Jean-Jacques Bosc et de ses raccordements sur les communes de Bordeaux, Bègles et Floirac

OMA

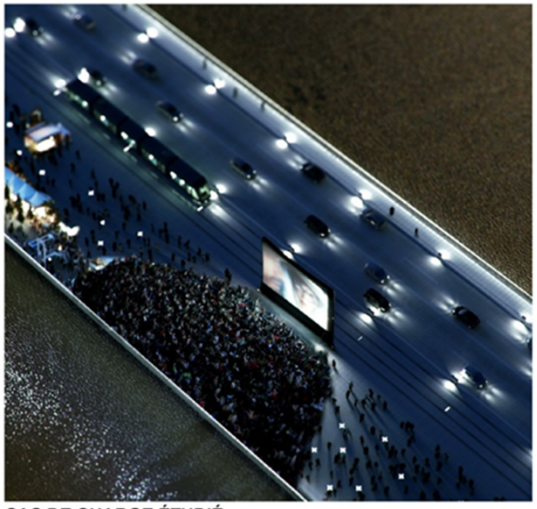

Elevation tablier du pont
Réalisation du pont Jean-Jacques Bosc et de ses raccordements sur les communes de Bordeaux, Bègles et Floirac
OMA

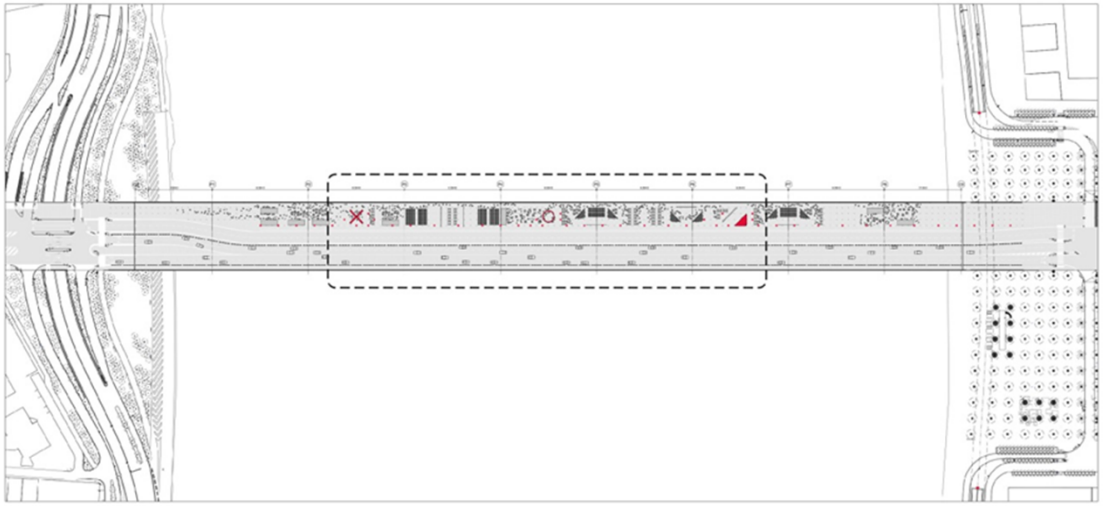

“L’architecture générale de l’ouvrage
est volontairement simple et classique .”

Une épaisseur qui donne corps au pont



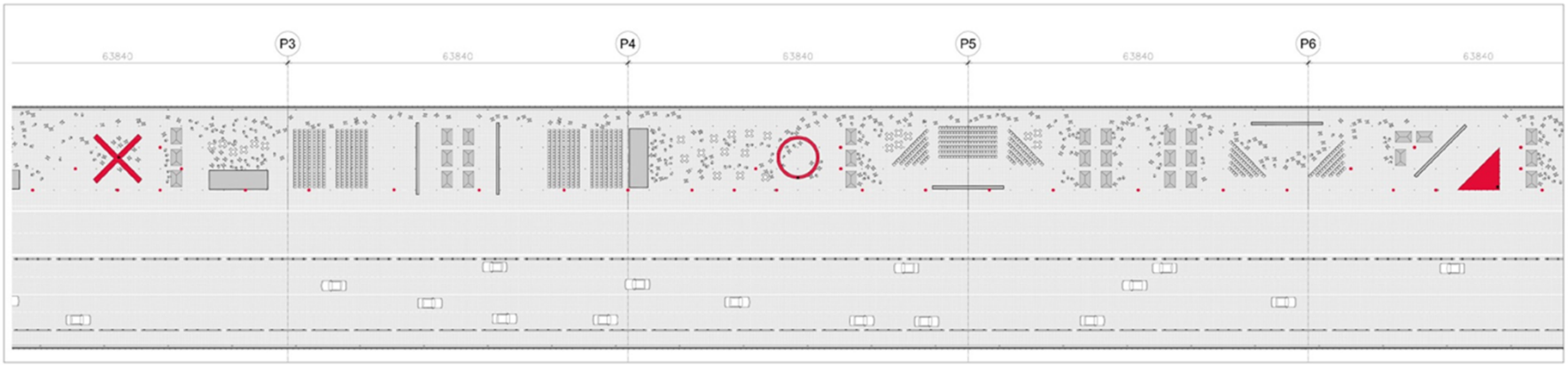
Cinéma En Plein-Air



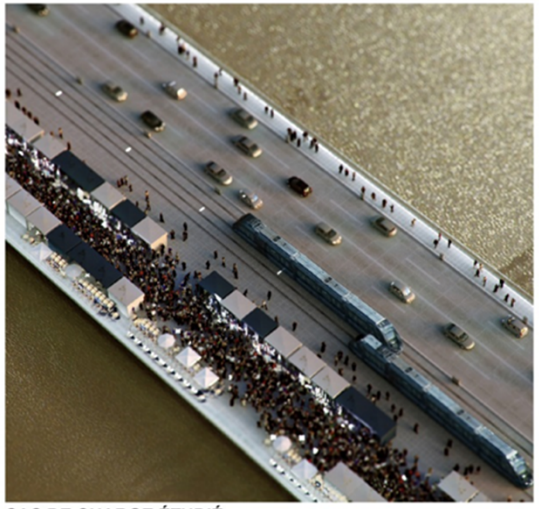


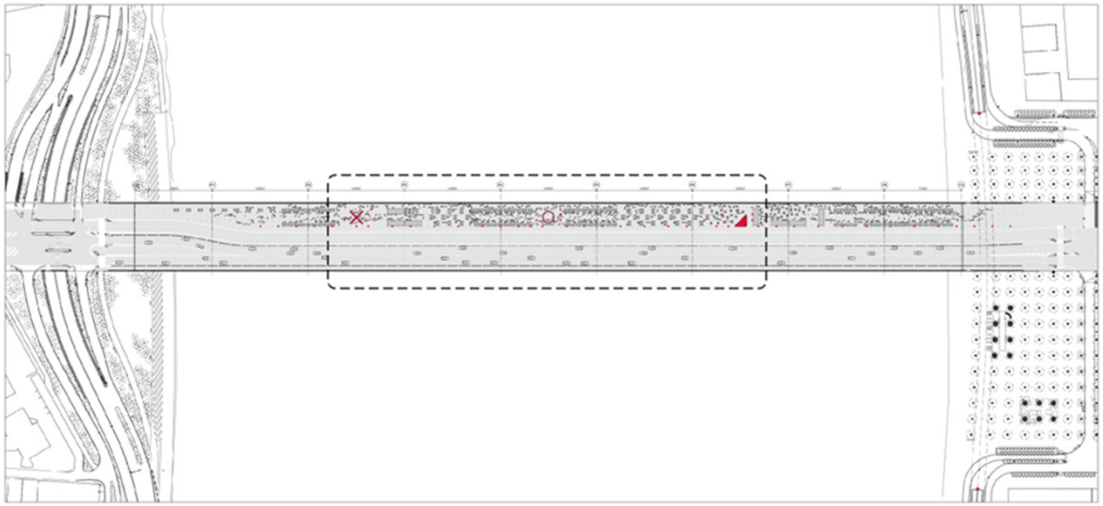
CAS DE CHARGE ÉTUDIÉ :

- CHARGE DE FOULE NORMALE, PIÉTONS EN MOUVEMENT OU ASSIS.
- CHARGE TOTALE MAXIMALE 5 KN/ M2 INCLUANT POIDS DES ÉQUIPEMENTS ET FOURNITURES
- PAS DE RESTRICTION DE L'AIRE CHARGÉE
- PAS D'EFFETS DYNAMIQUES



Marché



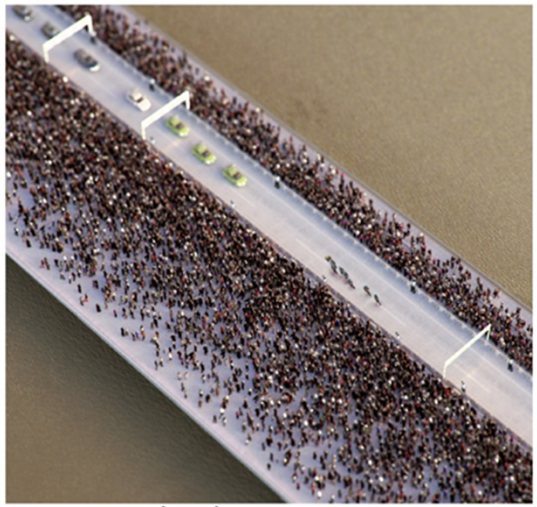


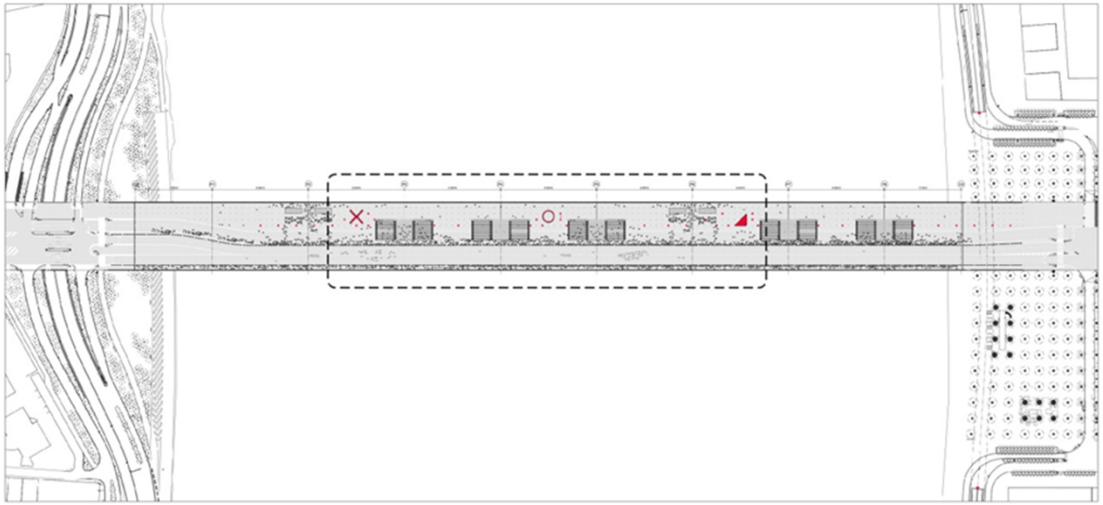
CAS DE CHARGE ÉTUDIÉ :

- CHARGE DE FOULE NORMALE, PIÉTONS EN MOUVEMENT OU ASSIS.
- CHARGE TOTALE MAXIMALE 5 KN/ M2 INCLUANT POIDS DES ÉQUIPEMENTS ET FOURNITURES (STANDS,...)
- PAS DE RESTRICTION DE L'AIRE CHARGÉE
- PAS D'EFFETS DYNAMIQUES



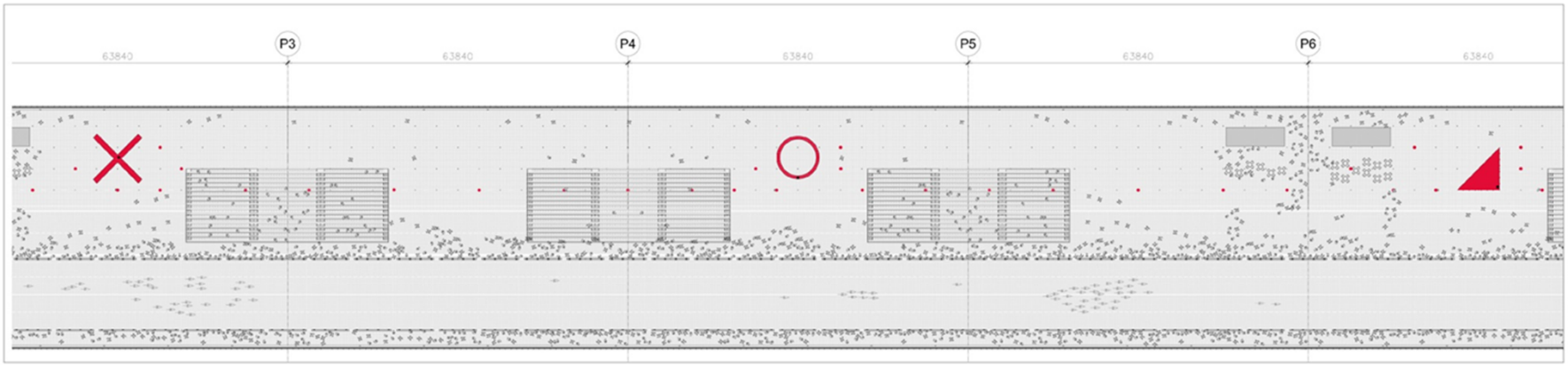
Tour de France





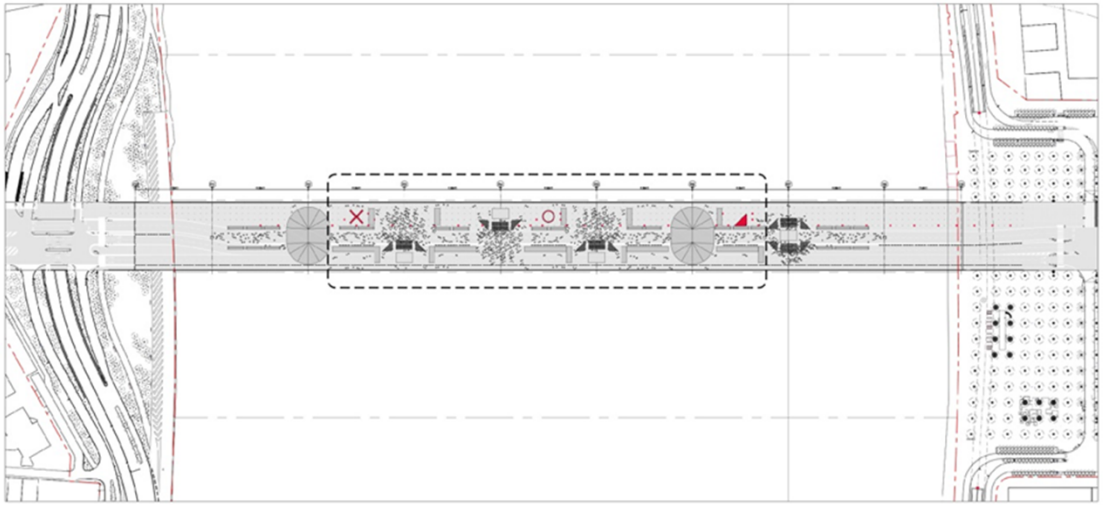
CAS DE CHARGE ÉTUDIÉ :

- CHARGE DE FOULE DENSE, PIÉTONS EN MOUVEMENT OU ASSIS.
- CHARGE TOTALE MAXIMALE 5 KN/ M2 INCLUANT LE POIDS DE PETITES TRIBUNES.
- PAS DE RESTRICTION DE L'AIRE CHARGÉE
- CHARGE DES SPECTATEURS POUVANT CRÉER DES EFFETS DYNAMIQUES MINEURS.
- NOMBRE RECOMMANDÉ DE SPECTATEURS MAXIMAL PAR TRAVÉE : < 5000



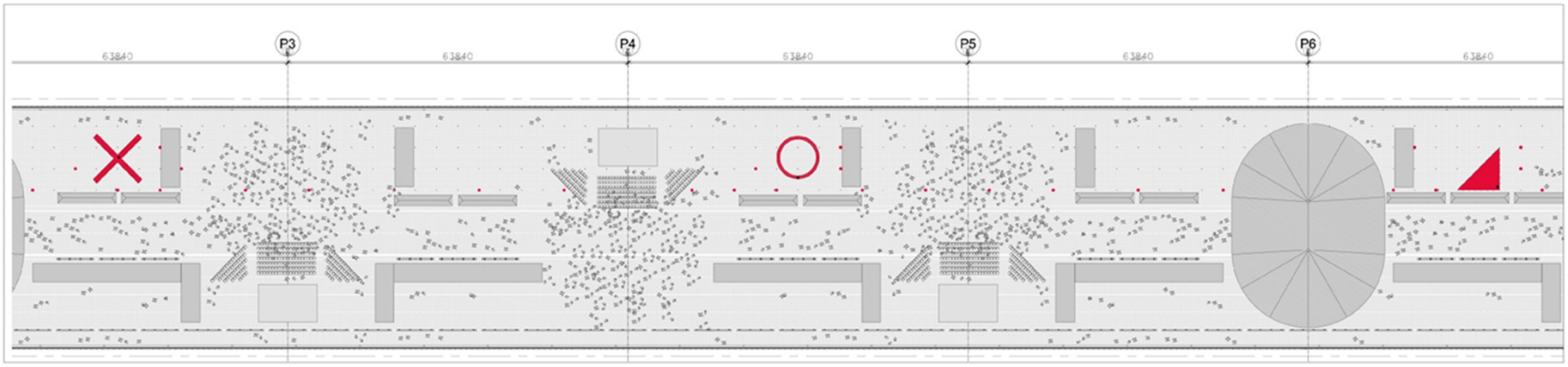
Tour De France / Parade





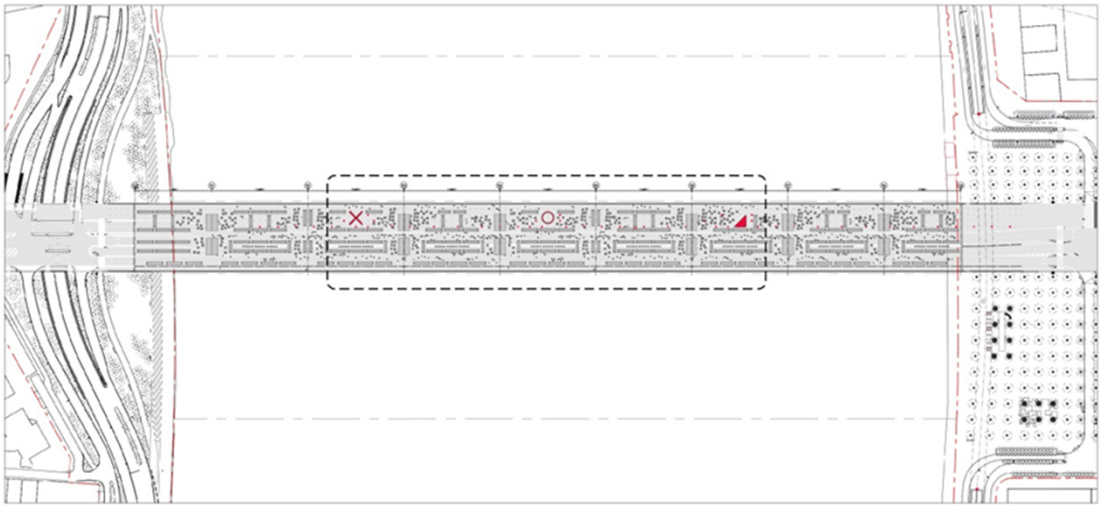
CAS DE CHARGE ÉTUDIÉ :

- CHARGE DE FOULE DENSE
- CHARGE TOTALE MAXIMALE DE 5 KN/M2 INCLUANT LE POIDS DES ÉQUIPEMENTS SPÉCIFIQUES
- CHORÉGRAPHIES SYNCHRONISÉES, SPECTATEURS EN MOUVEMENT (SAUTANT) OU CAS DE CHARGE DYNAMIQUE ÉQUIVALENT NON AUTORISÉ EN DEHORS DES ZONES DÉFINIES SANS AJOUT DE DISPOSITIONS SUPPLÉMENTAIRES (DISPOSITIFS D'AMORTISSEMENT TEMPORAIRE,...).
- SPECTATEURS ASSIS.
- ZONES DE FORT IMPACT (DANSE,...) LIMITÉES AU DROIT DES LIGNES D'APPUI – AIRE DE 20X20 M2



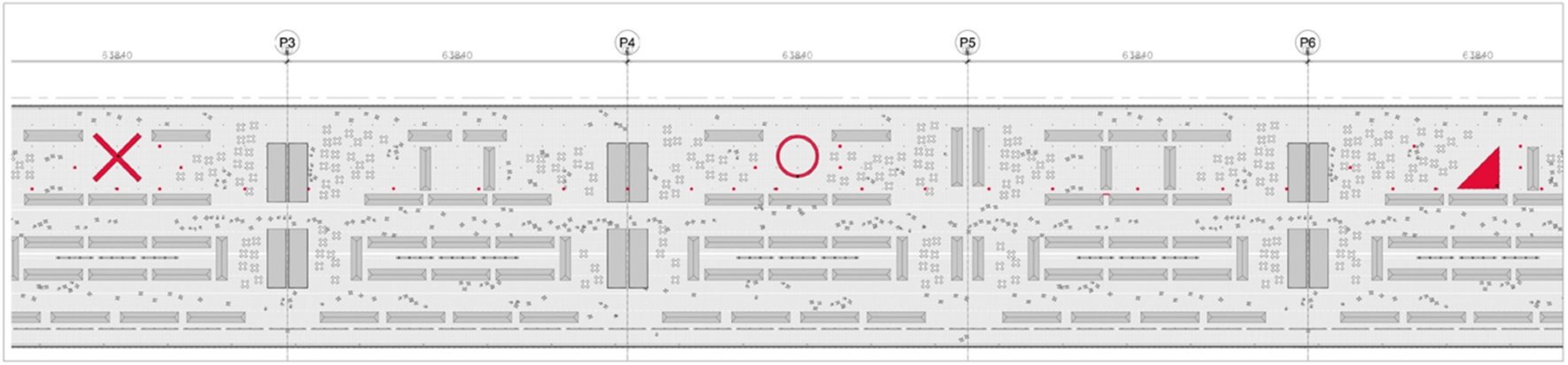
Fête Du Vin





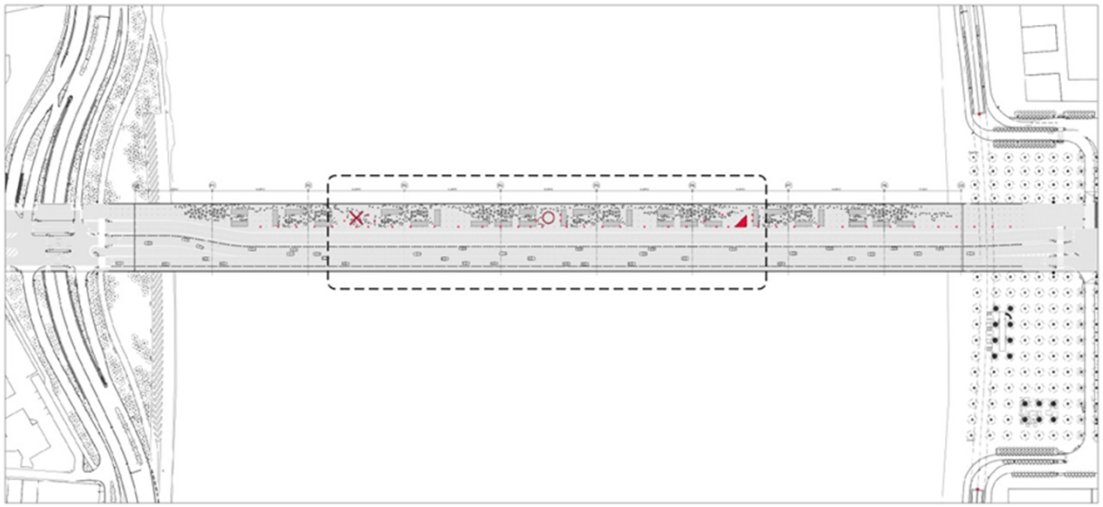
CAS DE CHARGE ÉTUDIÉ :

- DENSITÉ NORMALE DE PIÉTONS EN MOUVEMENT ET ASSIS.
- CHARGE TOTALE MAXIMALE DE 5 KN/M2 INCLUANT LE POIDS DES ÉQUIPEMENTS SPÉCIFIQUES ET DES STANDS
- PAS DE RESTRICTION DE L'AIRE CHARGÉE
- PAS D'EFFETS DYNAMIQUES



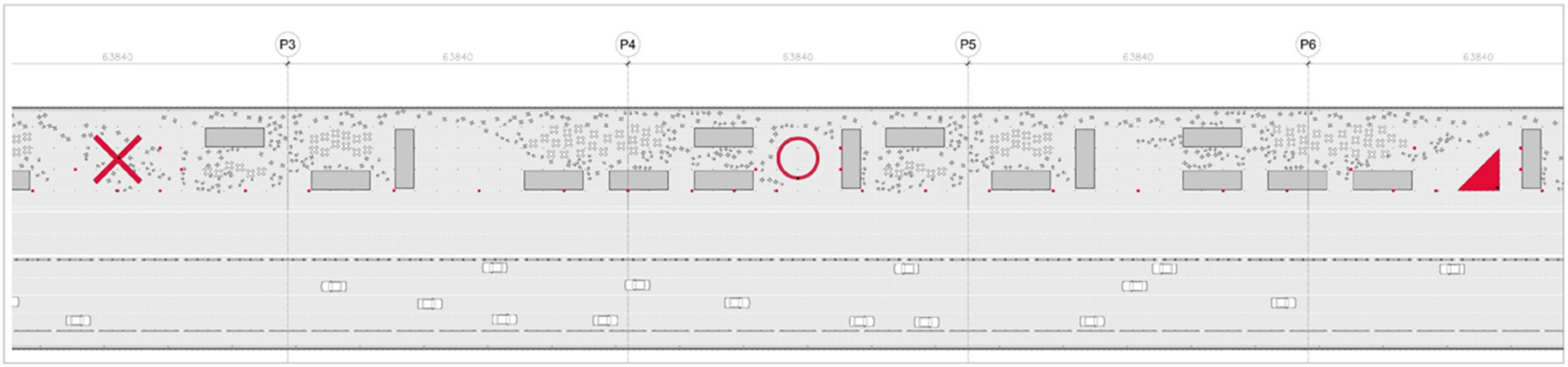
Événement Ponctuel





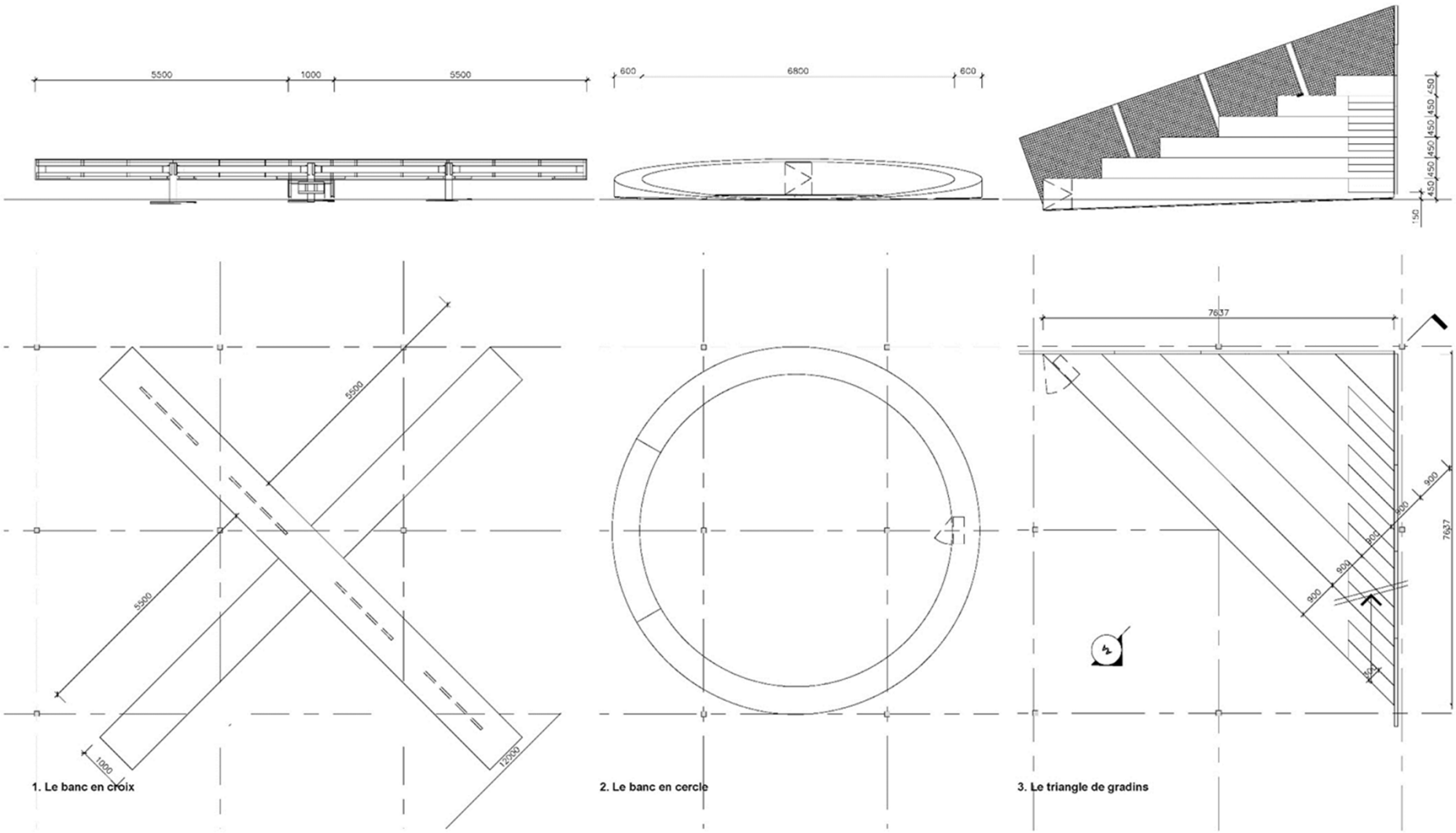
CAS DE CHARGE ÉTUDIÉ :

- CHARGE DE FOULE NORMALE, PIÉTONS EN MOUVEMENT OU ASSIS.
- CHARGE TOTALE MAXIMALE 5 KN/ M2 INCLUANT POIDS DES ÉQUIPEMENTS ET FOURNITURES
- PAS DE RESTRICTION DE L'AIRE CHARGÉE
- PAS D'EFFETS DYNAMIQUES




Le Tour France

Inventaire des types de mobiler en bois

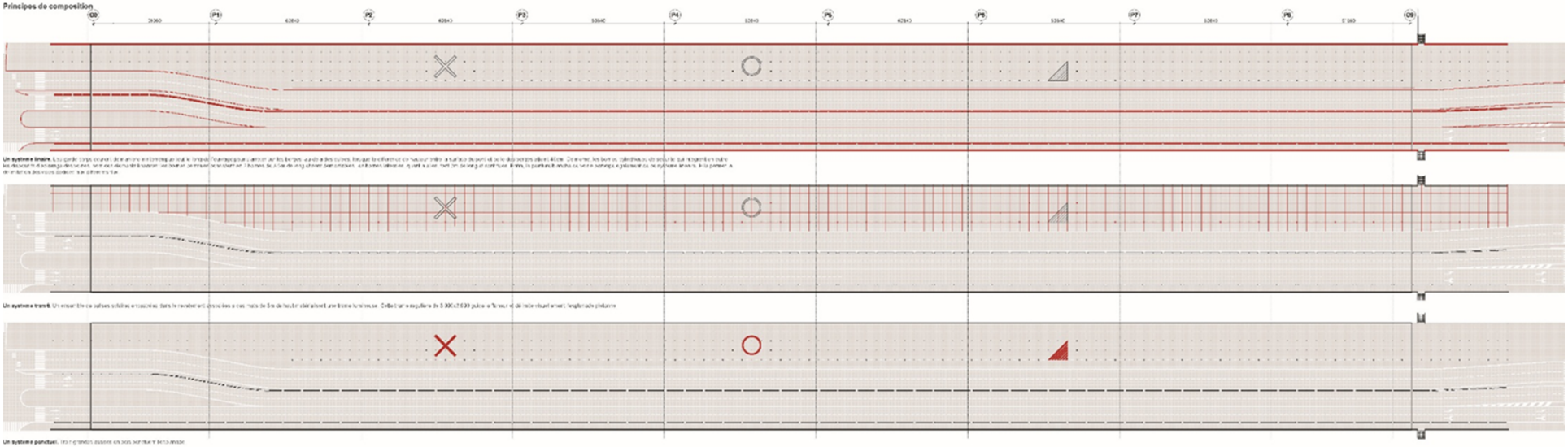


1. Le banc en croix

2. Le banc en cercle

3. Le triangle de gradins

Principes de composition

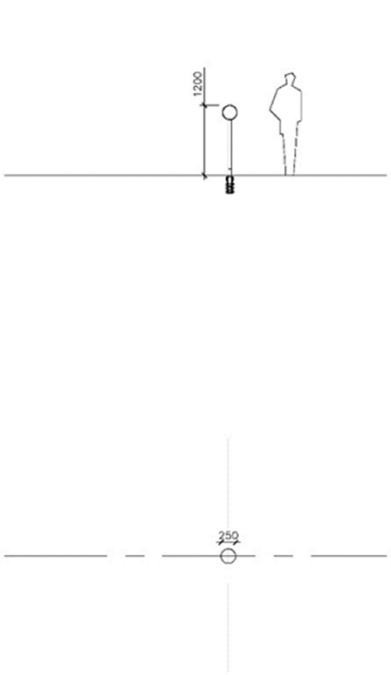


Un système linaire. Le parti pris consiste à marquer le linéaire de l'ouvrage par un mât, les berges, quais et des cales, lorsque la référence au hauteur relève à partir de point et de la berge des allées Alice. Comment les bords, cheminées de sécurité, qui respectent notre les descentes à usage ponctuel, ne vont pas rechercher à suivre, ne doivent pas nécessairement se couper en 2 hauteurs de 1,4 m de long et mesurer des cheminées, et à cet effet, il vient s'ajouter, quant à lui, l'effet de berge qui continue. Enfin, la partie la plus haute de la berge a également pour rôle de système linéaire, de la garder à distance des voies pour les piétons et les cyclistes.

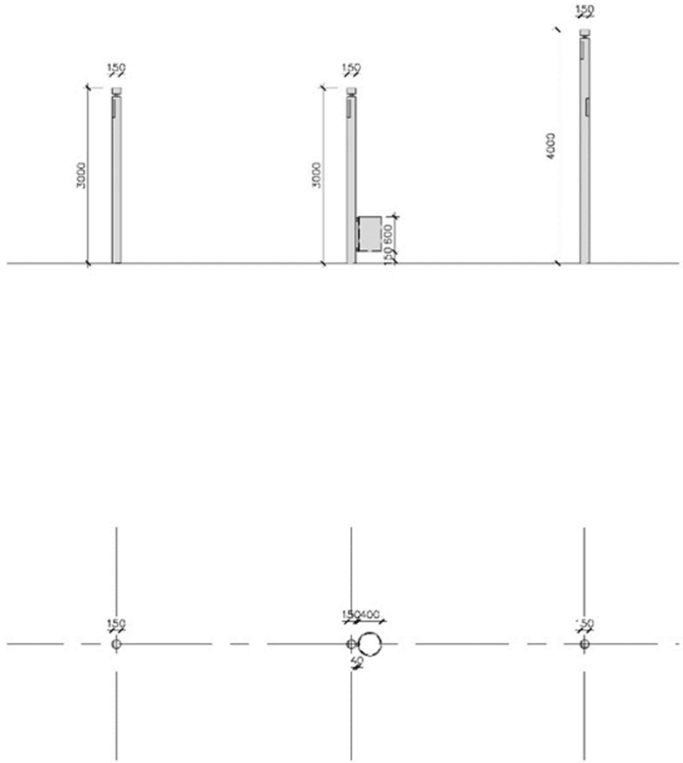
Un système tramé. Un ensemble de salles solaires et cascades. Dans le revêtement, disposées à des pas de 5 m de haut, ils viennent une forme lumineuse. Cette trame régulière de 5,00 x 5,00 puis elle "brise" et délimite visuellement l'espace piétonne.

Un système ponctuel. Les grandes assises en bois sont sur le canal.

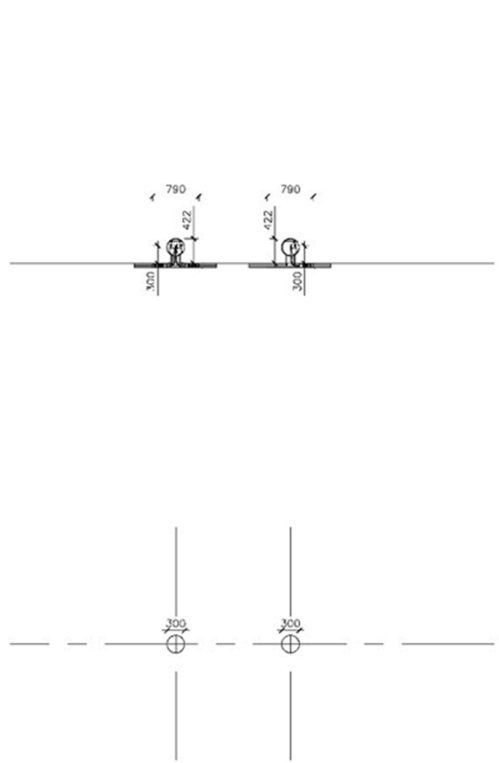
Inventaire des types de mobiler en acier à section circulaire



1. Le garde corps



2. Le mat a lumiere a) uni-directionnelle b) bi-directionnelle c) avec poubelle



3. Les barrieres de sécurité a lumiere a) uni-directionnelle b) bi-directionnelle



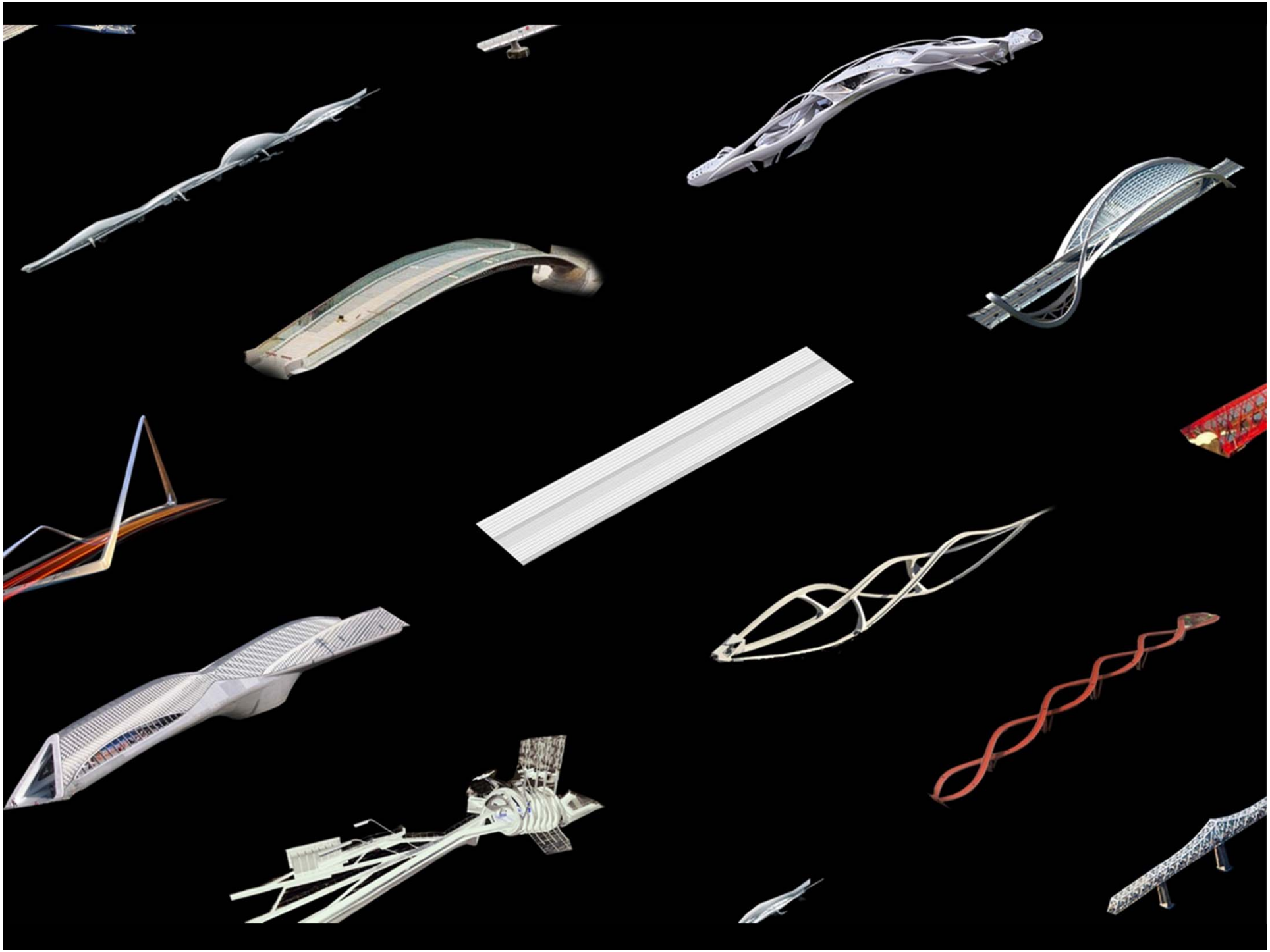




Réalisation du pont Jean-Jacques Bosc et de ses raccordements sur les communes de Bordeaux, Bègles et Floirac

OMA

Phase AVP / p.93



Les symbolistes … en réaction

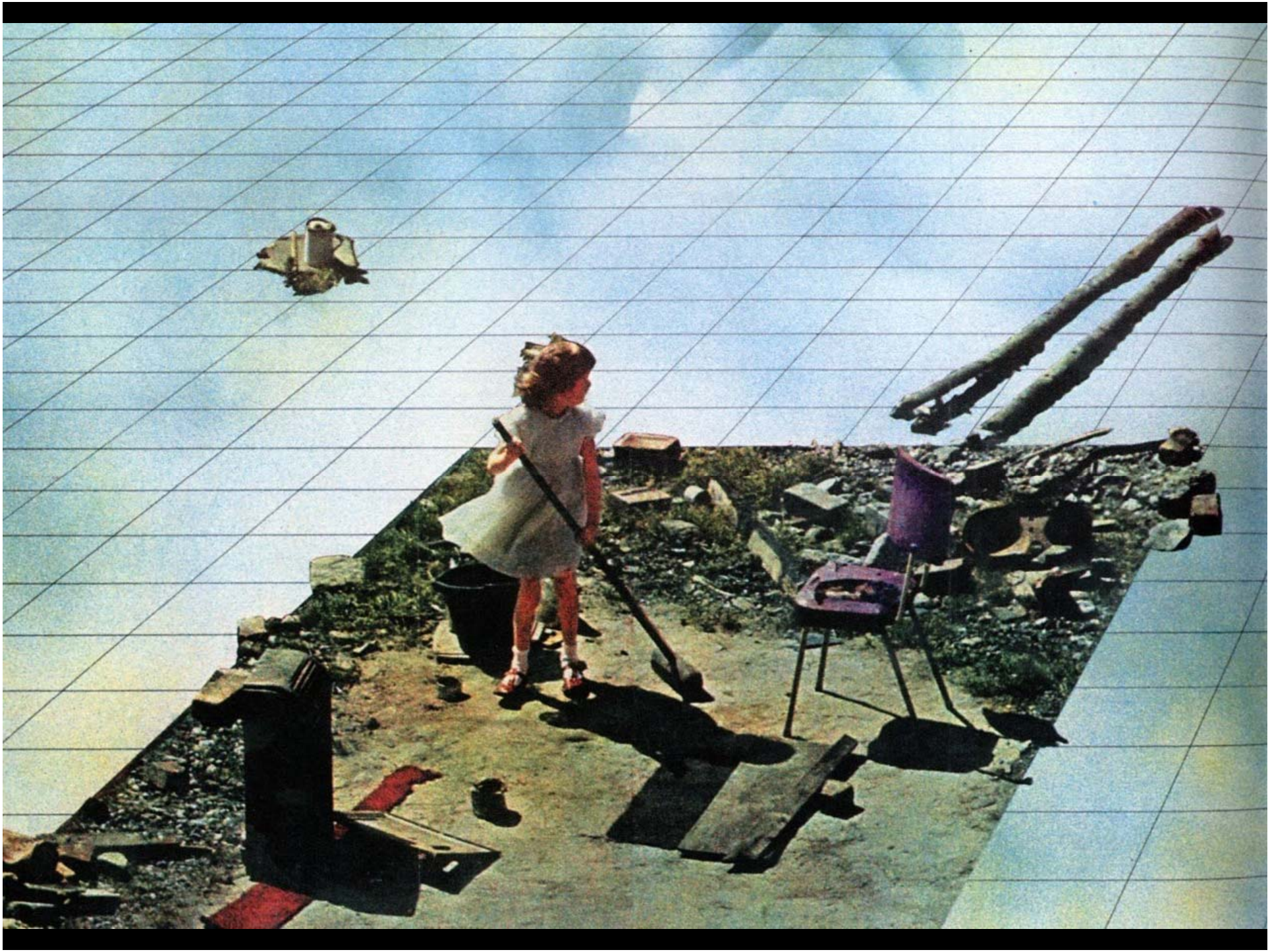


Des caresses
(Fernand Khnopff, 1896, Domaine public)



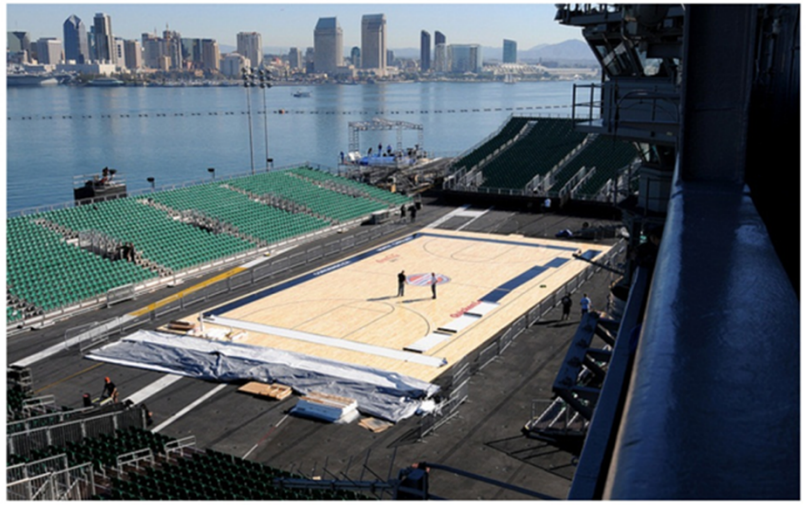
Superstudio [1971]
projet utopique Supersurface







Superstudio [1971]
projet utopique Supersurface







SOME POTENTIAL USE OF THE ADDITIONAL DECK: TEMPORARY EVENTS

