

1. RESEARCH SUMMARY

2. DESIGN

3. STATEMENT

PAST - PRESENT - FUTURE

1. RESEARCH SUMMARY

PAST: METABOLISTS

PRESENT: ICON

FUTURE: HABITABLE BRIDGE

METABOLISTS / MAKI: Congestion as paradigm itself



RESEARCH QUESTION Is the notion of Collective Form compatible with the future of our cities and the production of its architecture?

LINKAGE

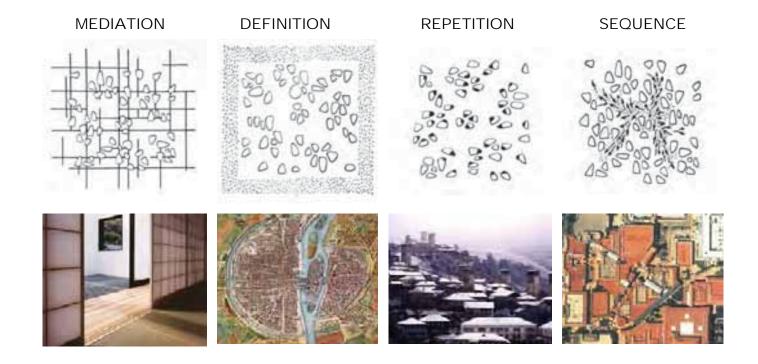


IMAGE FOR THE CITY, FUSING ARCHITECTURE WITH INFRASTRUCTURE



The Rialto Bridge



Ponte Luis, Porto

HISTORY 1600 - 1900 - 1930s



London Bridge, 16th century



Edgar Chambless, Road town, 1910



Le Corbusier, Plan Obus, 1933



Rotterdam 1665



Rotterdam, Willemsbrug 1878



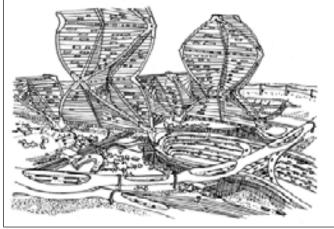
Rotterdam, Maastunnel 1937

ZENITH: GOLDEN AGE ROTTERDAM, 1960s JAPAN









INFRASTRUCTURAL HISTORY





BOOMPJES WAS A COLLECTIVE FORM





ROTTERDAM'S TURNING POINT: DISSATISFACTION, THE CAR & THE WAR

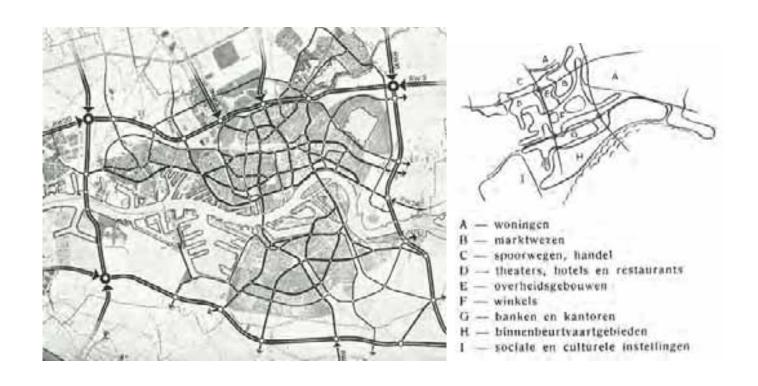








POST-WAR: THE END OF A FUSION BETWEEN ARCHITECTURE AND INFRASTRUCTURE



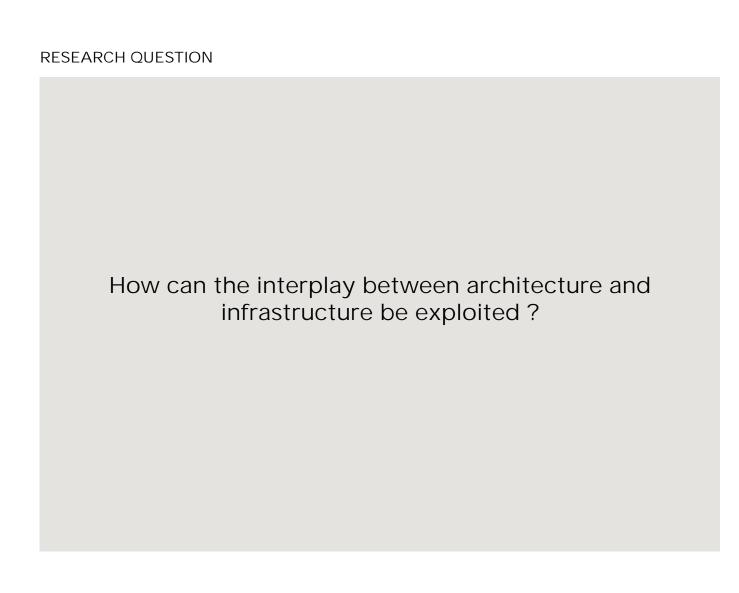
1995 ERASMUSBRUG



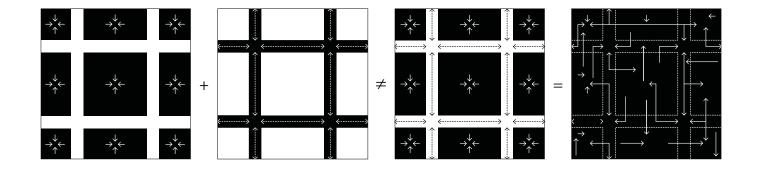








ARCHITECTURE AND INFRASTRUCTURE: EQUAL PLAYERS AS MEDIATORS IN THE CITY

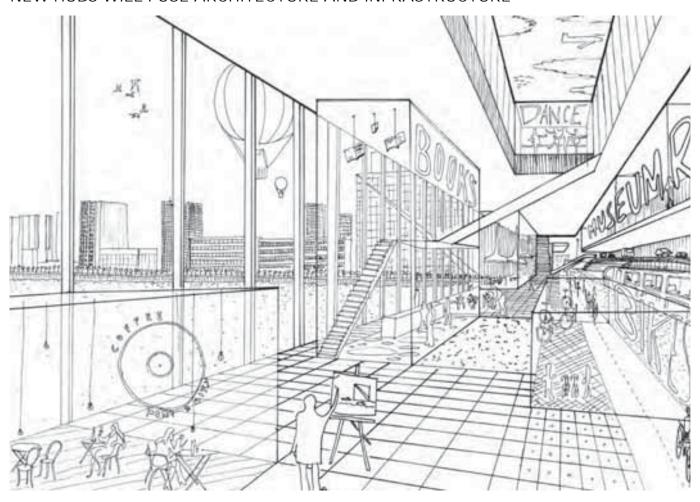


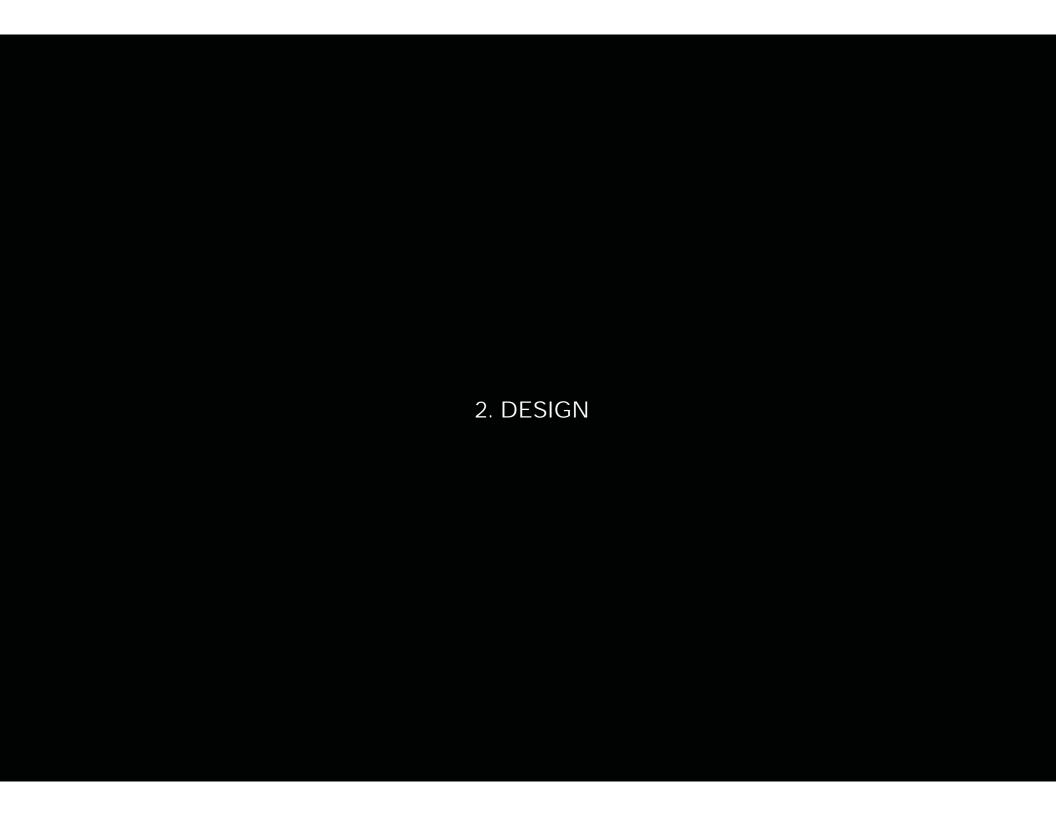
URBAN DEVICES FOR THE ORCHESTRATION AND IMAGE OF OUR FUTURE CITIES



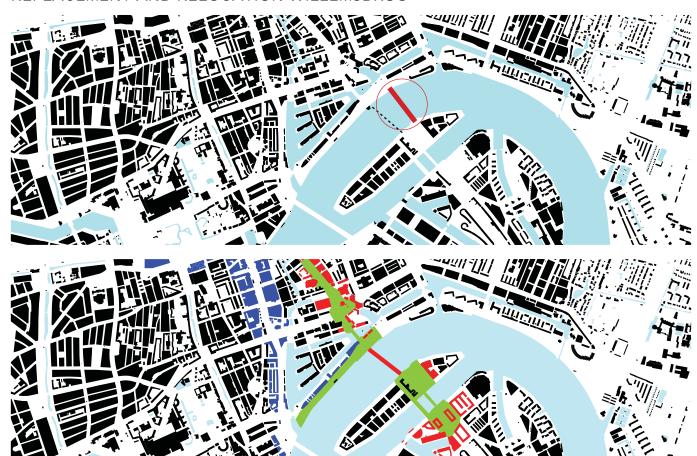


NEW HUBS WILL FUSE ARCHITECTURE AND INFRASTRUCTURE

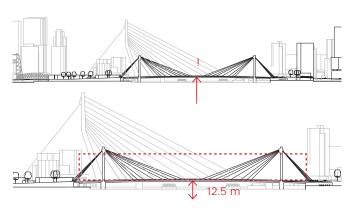




REPLACEMENT AND RELOCATION WILLEMSBRUG



WILLEMSBRUG MUST BE INCREASED, NEW TRAM LINE IS INTRODUCED





12.5 meter clearance





River orientation

CITY AT THE RIVER, LIFE-CYCLE COST INFRASTRUCTURE SHOULD BE REDUCED







Urban bridges need attention urgently

Integrated process strategy at urban sites



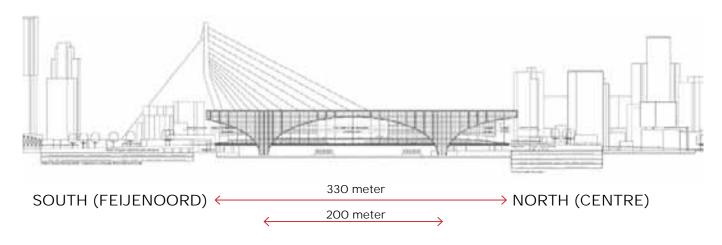








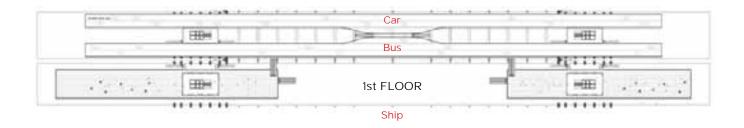
STRENGTHEN CONNECTION BETWEEN NORTH SOUTH





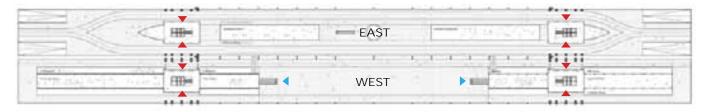
FLOWS OF THE CITY



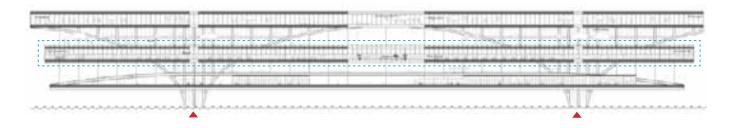




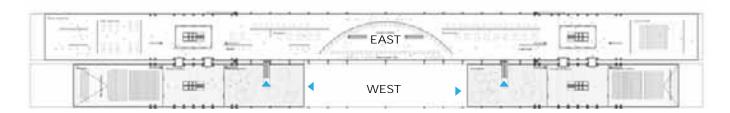
CORES, ESCALATORS | EAST AND WEST WING



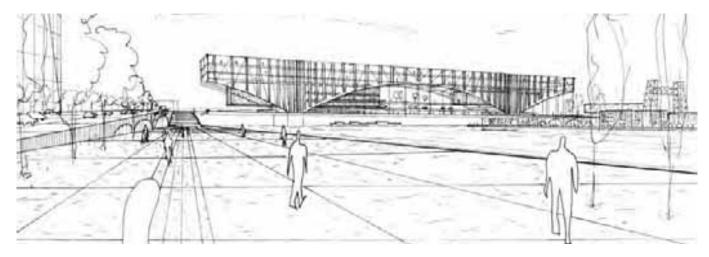
4 cores in 2 'trunks'



Lobbies reached through escalators

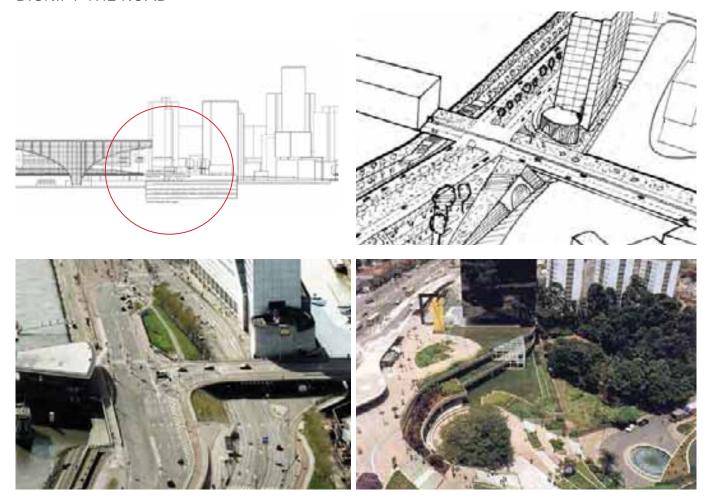


REVITALIZE THE WATERFRONT

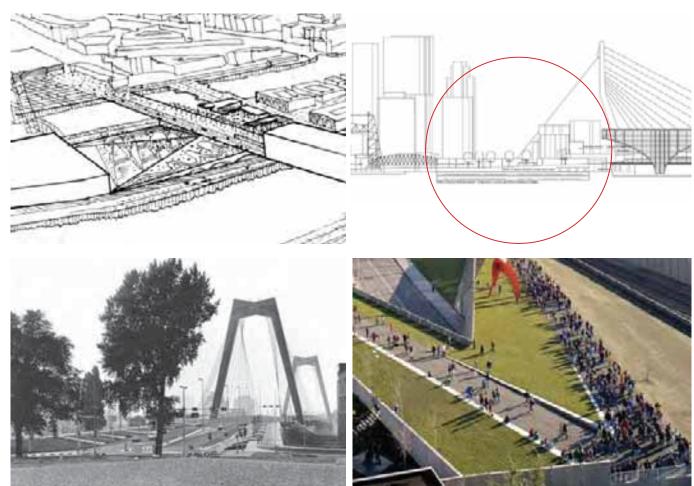




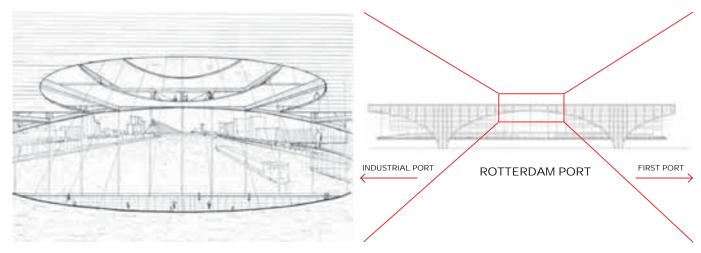
DIGNIFY THE ROAD



RETURN THE JAN ELEVATED PARK TO THE NOORDEREILAND

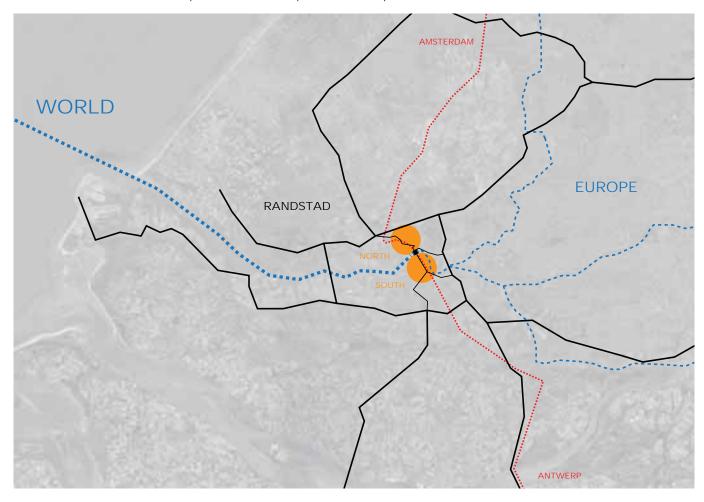


ACKNOWLEDGE THE IMPORTANCE OF THE HISTORIC LOCATION

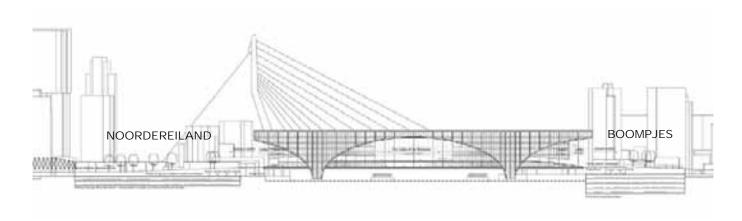




CONNECTION TO CITY, METROPOLE, COUNTRY, WORLD



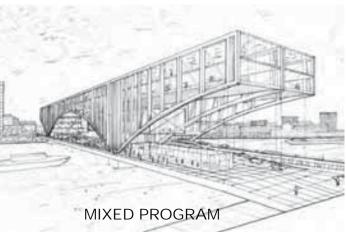
URBAN DEVELOPMENT: SPIN-OFFS FOR NOORDEREILAND AND BOOMPJES

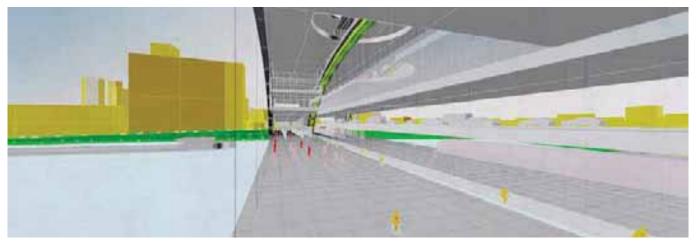




ALTERNATIVE FOR URBANISM BASED ON CLUSTERS

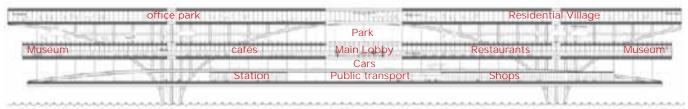




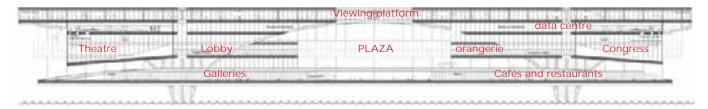


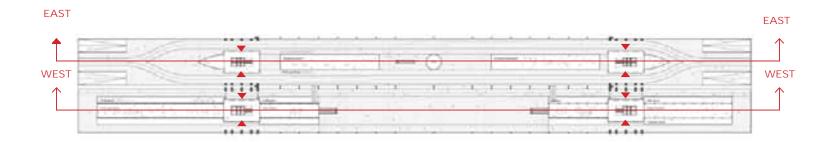
ALTERNATIVE FOR URBANISM BASED ON CLUSTERS

SECTION EAST

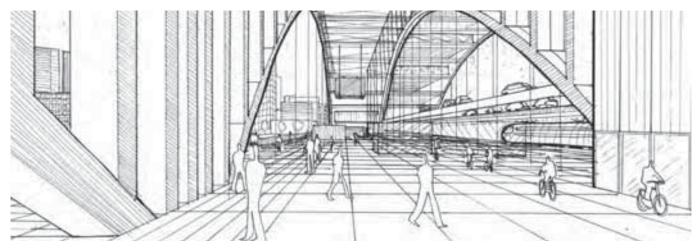


SECTION WEST





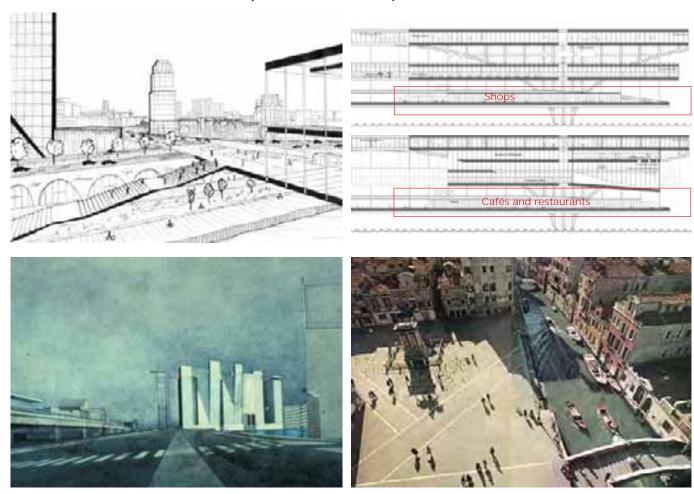
ALTERNATIVE FOR AN URBAN FABRIC DOMINATED BY HEAVY TRAFFIC







ALTERNATIVE FOR HIGH RISE (WITHOUT PLINTH)



ALTERNATIVE FOR URBANISM RELYING ON EVENTS

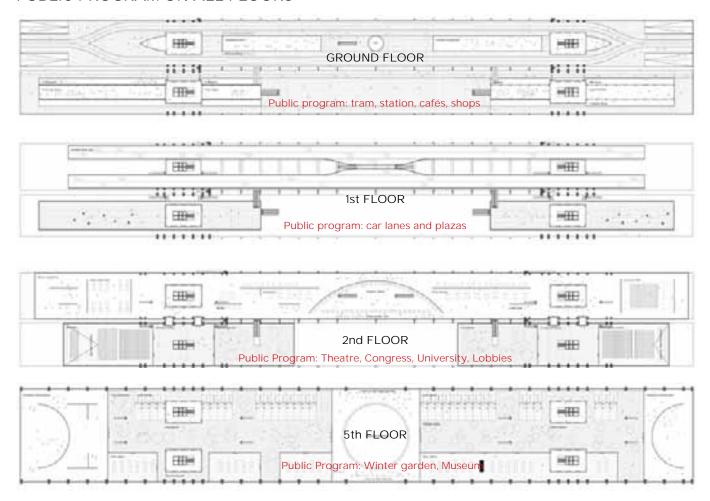
WATERSTAD, DAT WORDT WAT



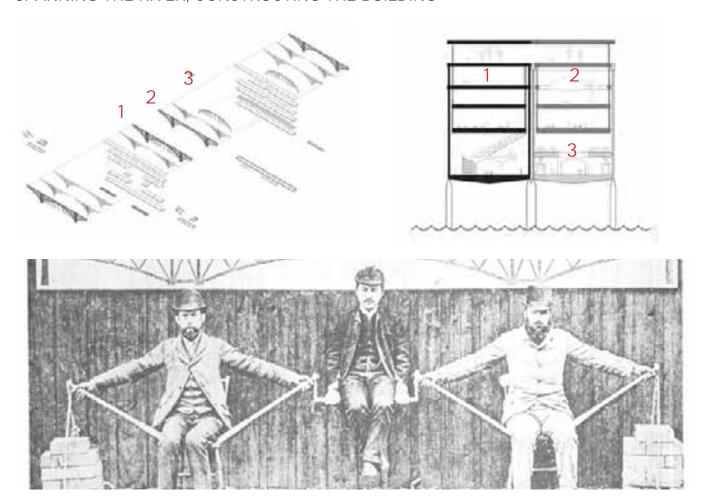




PUBLIC PROGRAM ON ALL FLOORS



SPANNING THE RIVER, CONSTRUCTING THE BUILDING



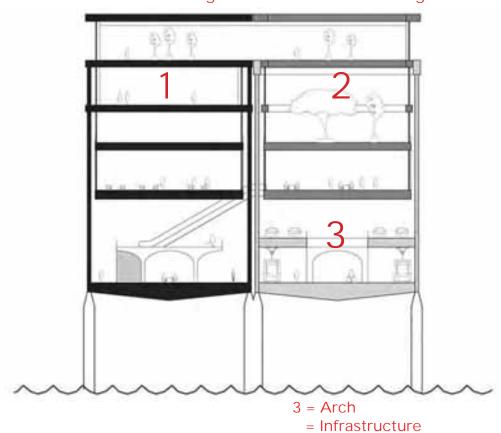
3 SEPARATE CONSTRUCTIONS



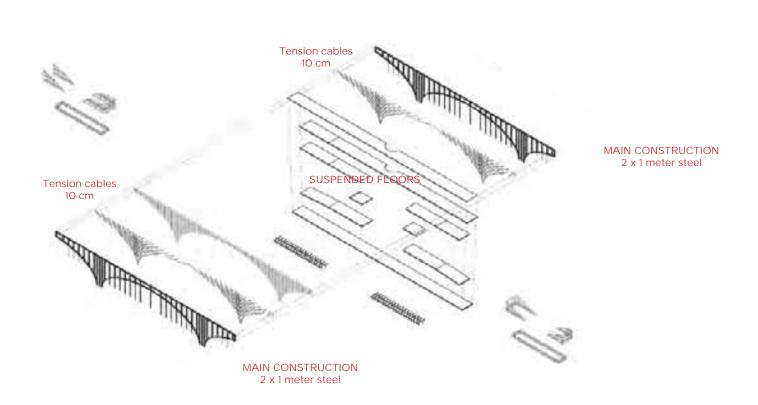
= Public Building

2 = Cantilever principle

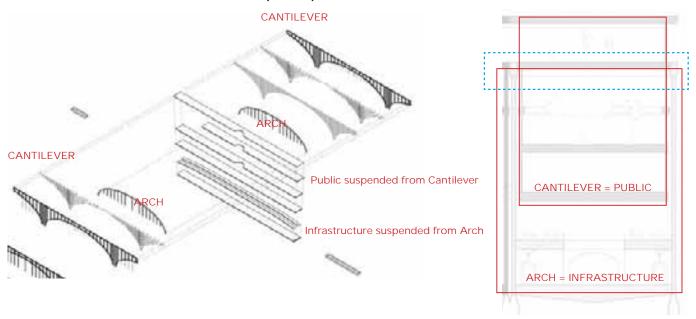
= Public Building



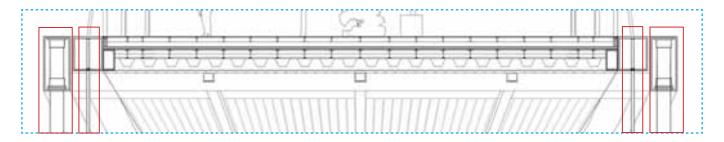
CANTILEVER PRINCIPLE (WEST)



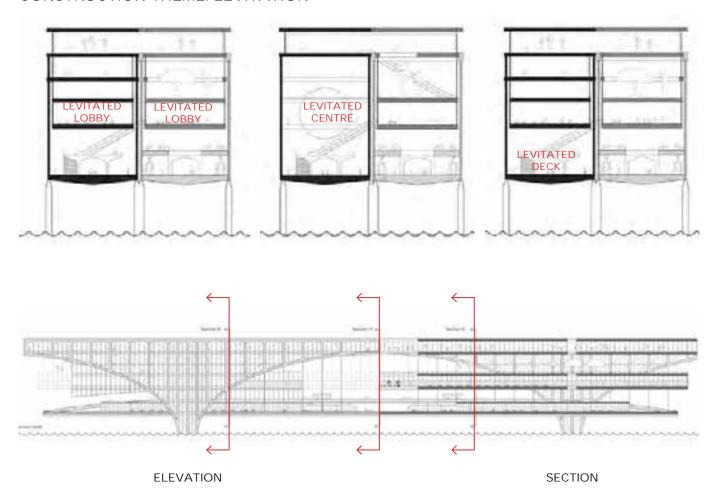
CANTILEVER + ARCH PRINCIPLE (EAST)



CANTILEVER + ARCH PRINCIPLE : DILATATION (15 cm)



CONSTRUCTION THEME: LEVITATION



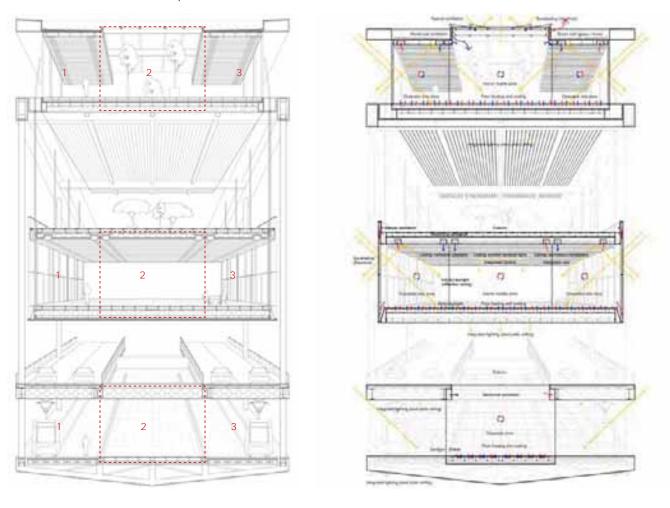
HEAVY VERSUS LIGHT: DAY VERSUS NIGHT



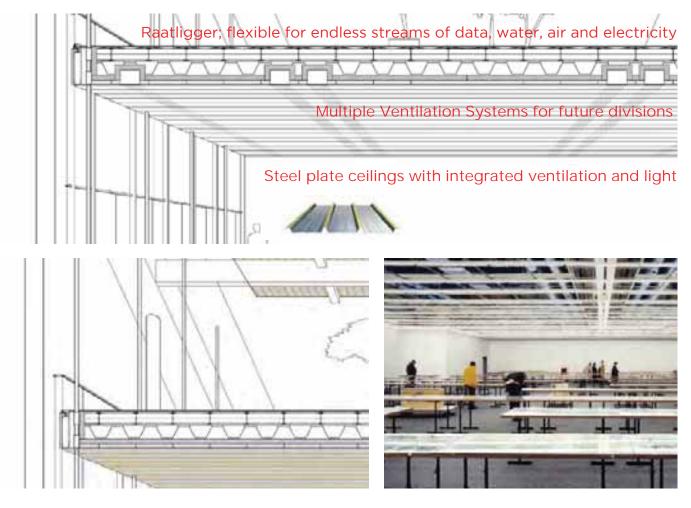




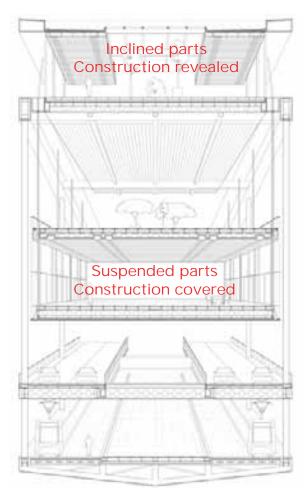
FLEXIBILITY: CHANGE, APPROPRIATION AND TRANSFORMATION OVER TIME

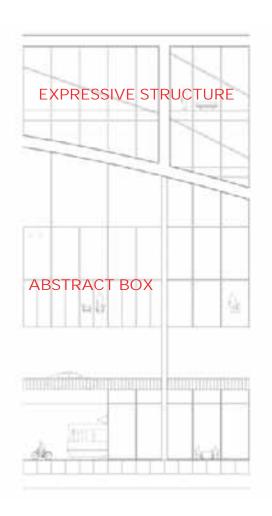


FLEXIBLE ELEMENTS: RAATLIGGER AND STEEL PLATE

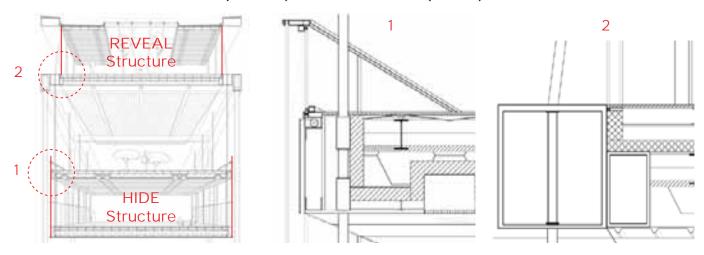


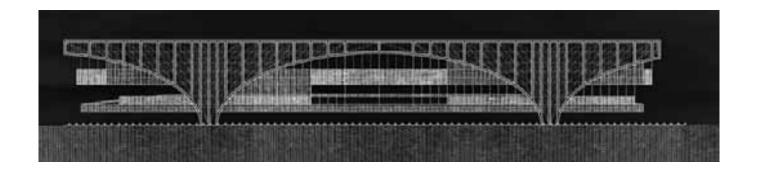
INTERPLAY OF HIDING AND REVEALING





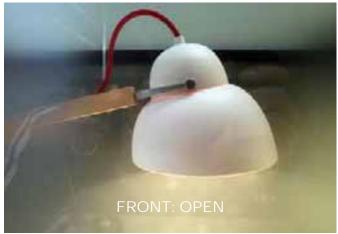
INTERPLAY OF CARRYING (HEAVY) AND HOVERING (LIGHT)

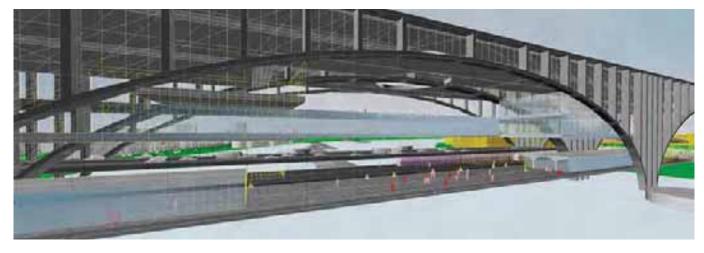




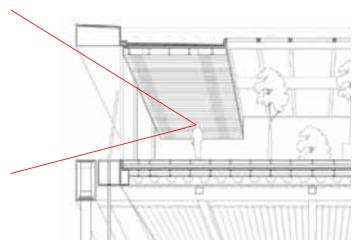
UNDER AN ANGLE: CLOSED, OPEN IN FRONT



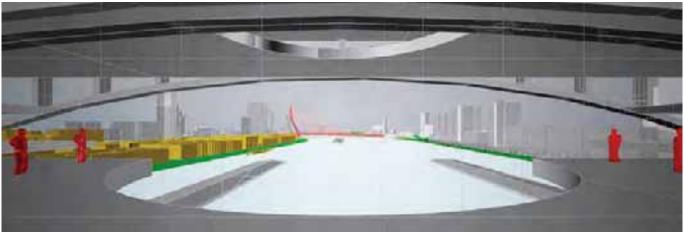




PANORAMA

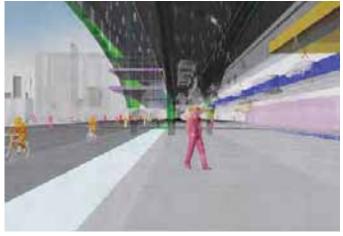






DIRECTIONALITY







SPECIFICITY



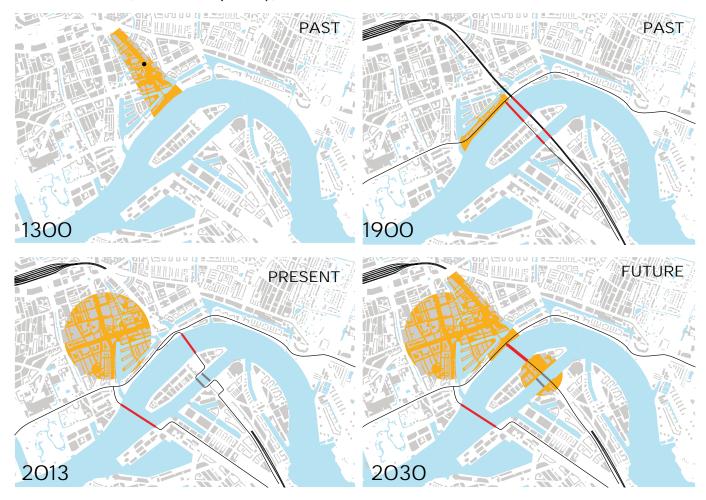


PEAT / CLAY SWEET/SOLD

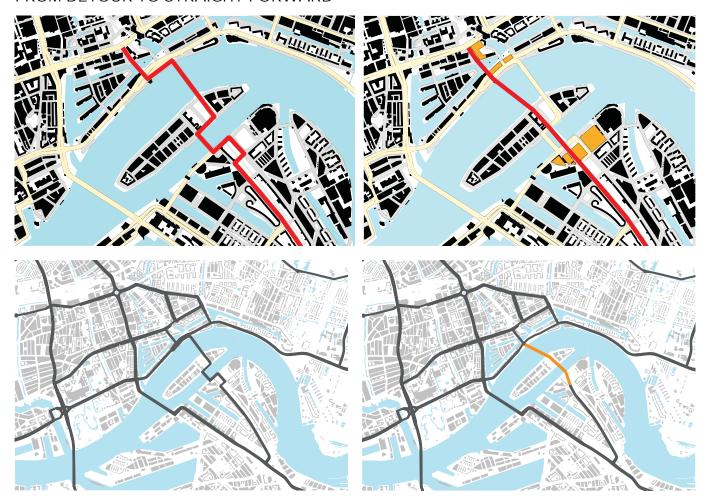


HISTORICAL LOCATION

FROM CENTRE, TO RIVER (PAST), ONCE AGAIN FROM CENTRE TO RIVER



FROM DETOUR TO STRAIGHT FORWARD



GENIUS LOCI - GENIUS LOGO - GENIUS LOCI







3. STATEMENT: WHY THE HUB?

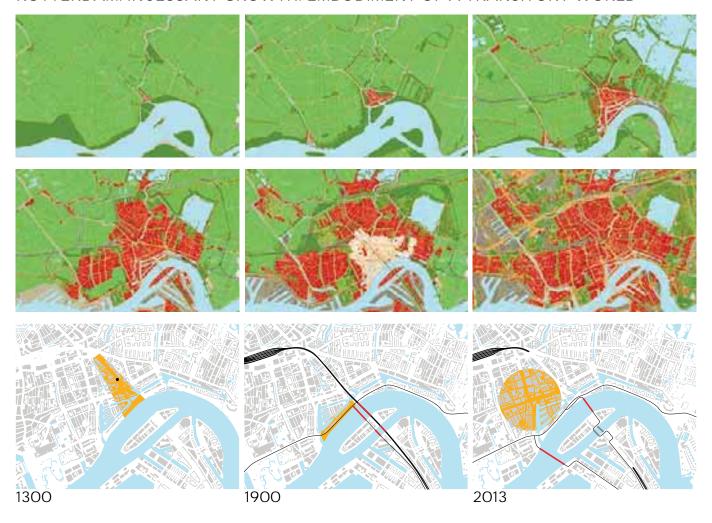
PAST: THE HARBOUR

PRESENT: THE NETWORK ERA

FUTURE: THE HUB

PAST: THE HARBOUR

ROTTERDAM: INCESSANT GROWTH: EMBODIMENT OF A TRANSITORY WORLD



ACTIVITIES TRANSCEND BEYOND THE SCALE OF THE CITY









ROTTERDAM CHARACTERISTIC: METROPOLIS IN TRANSIT

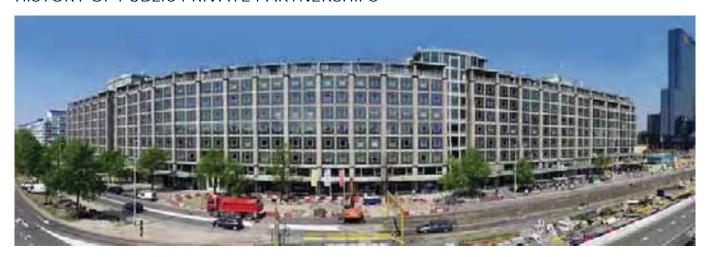




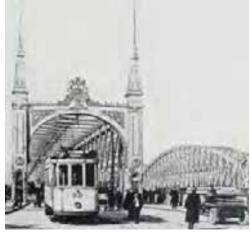




HISTORY OF PUBLIC PRIVATE PARTNERSHIPS









ONGOING NEED FOR PUBLIC PRIVATE PARTNERSHIPS

INKOGPBELEID

'Gemeenten doen te weinig om innovatie aan te jagen'

Hightechindustrie kritisch over overheid als 'eerste gebruiker'

Hansde Jongh

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the Vereniging van Nederland se Generation beeft aich at hard



le greifield moet vaxer het goede voorbeeld geven met de aanschaf van insovetieve



April 2013

Infrabeleid gemeente kan beter af zijn met een PPS

Kuno Buyze en Jelle Hannema

met achterstallig onderhoud van hun openbare infrastructuur. TNO
meldde recent nog dat alleen al
40.000 betonnen bruggen in ons
land dringend onderhoud nodig
hebben. Deze achterstanden
opheffen is een uitdaging, zeker
nu geld nauwelijks beschikbaar
is. Daar komt bij dat nieuwe wetgeving ertoe leidt dat het voor gemeenten steeds moeilijker wordt

DESTRUCTIVE ROLE OF PRAGMATIC INFRASTRUCTURE









PRESENT: THE NETWORK ERA

FUNDAMENTAL NATURE OF OUR WORK











THE WILL OF AN EPOCH





VILLAGER AND CITIZEN EQUALLY COSMOPOLITAN, THE WORLD OF THE COMMUTER





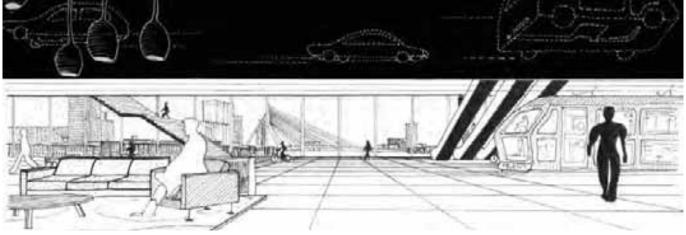


HOUSE STUDIED FOR CENTURIES, ARCHITECTURAL NODES UNTESTED



THE DOMESTICATION OF INFRASTRUCTURE





OPEN UP THE PUBLIC BUILDING, DIGNIFY THE ROAD





ROTTERDAM: TEST GROUND FOR THE HUMANIZATION OF INFRASTRUCTURE



FUTURE: THE HUB

MEGASTRUCTURE AFTER MIES

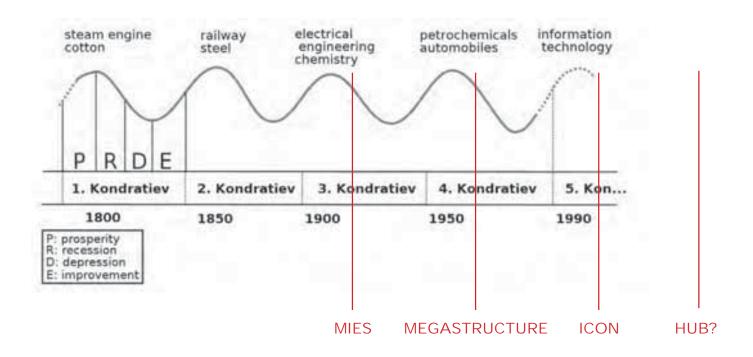




WHAT WILL RESTORE THE ICON?



SUPER CYCLES IN ECONOMY (AND ARCHITECTURE)



THE HUB, THE MULTIFUNCTIONAL PARKING GARAGE





TECHNOLOGY, MOBILITY, ARCHITECTURE; INFRASTRUCTURE; GLOBALIZATION



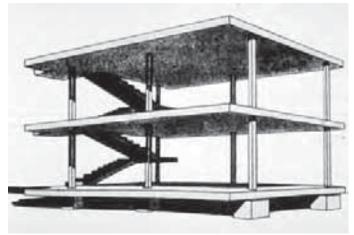




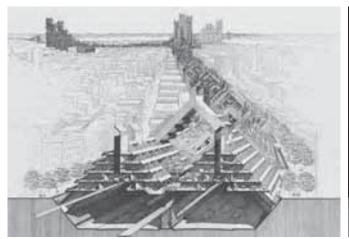
WHAT'S FLEXIBILITY BEYOND THE PLAN LIBRE

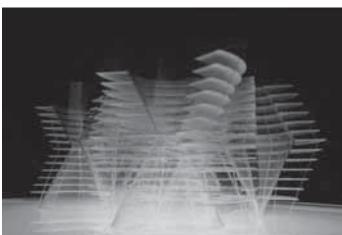




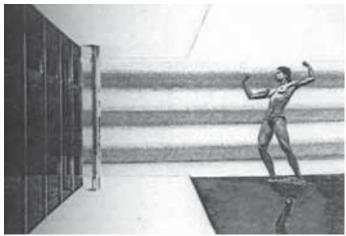


UTOPIAN, LIGHT, DELIRIOUS, PROFOUND

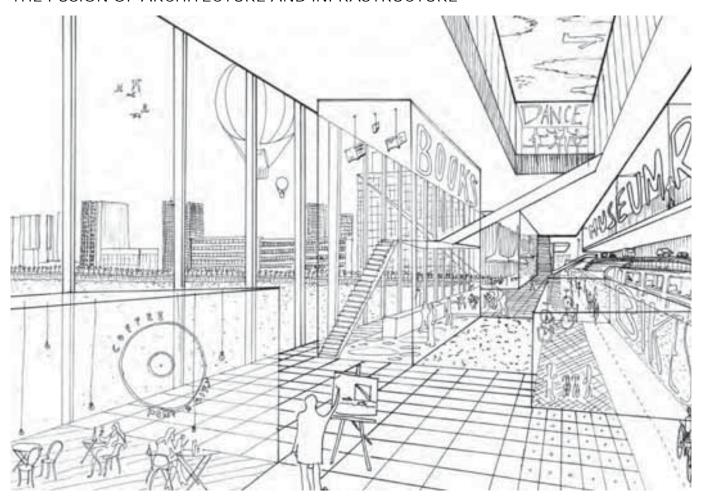


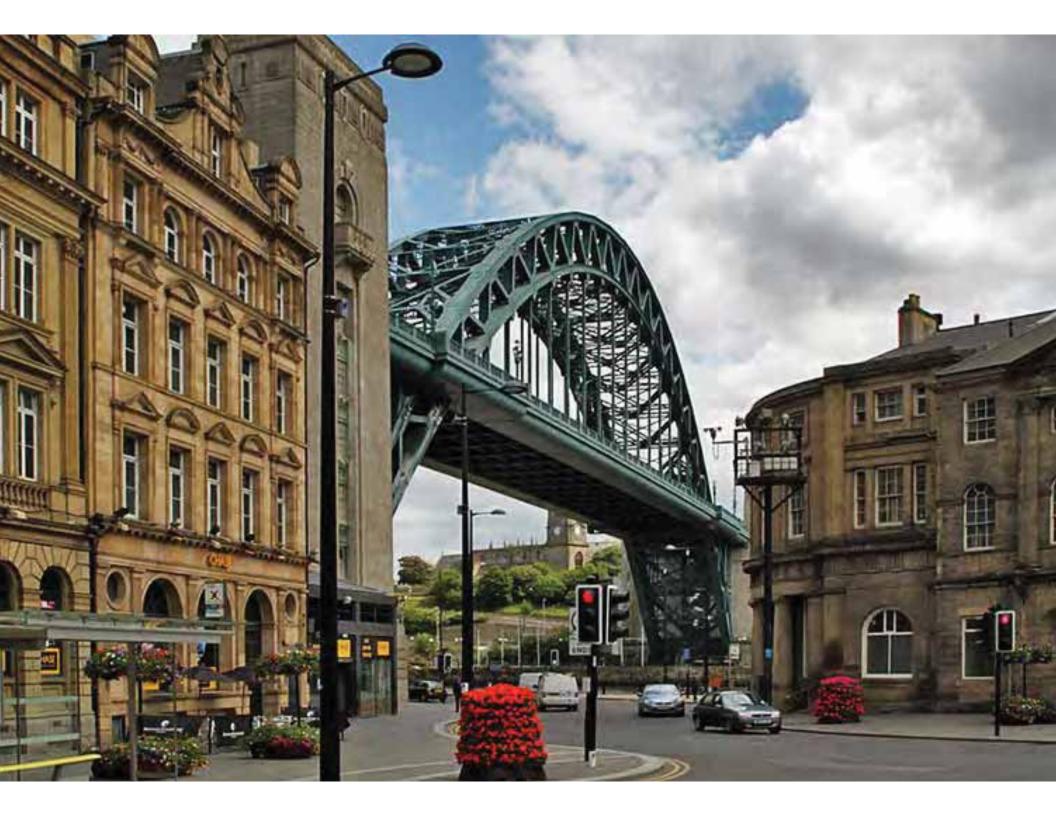


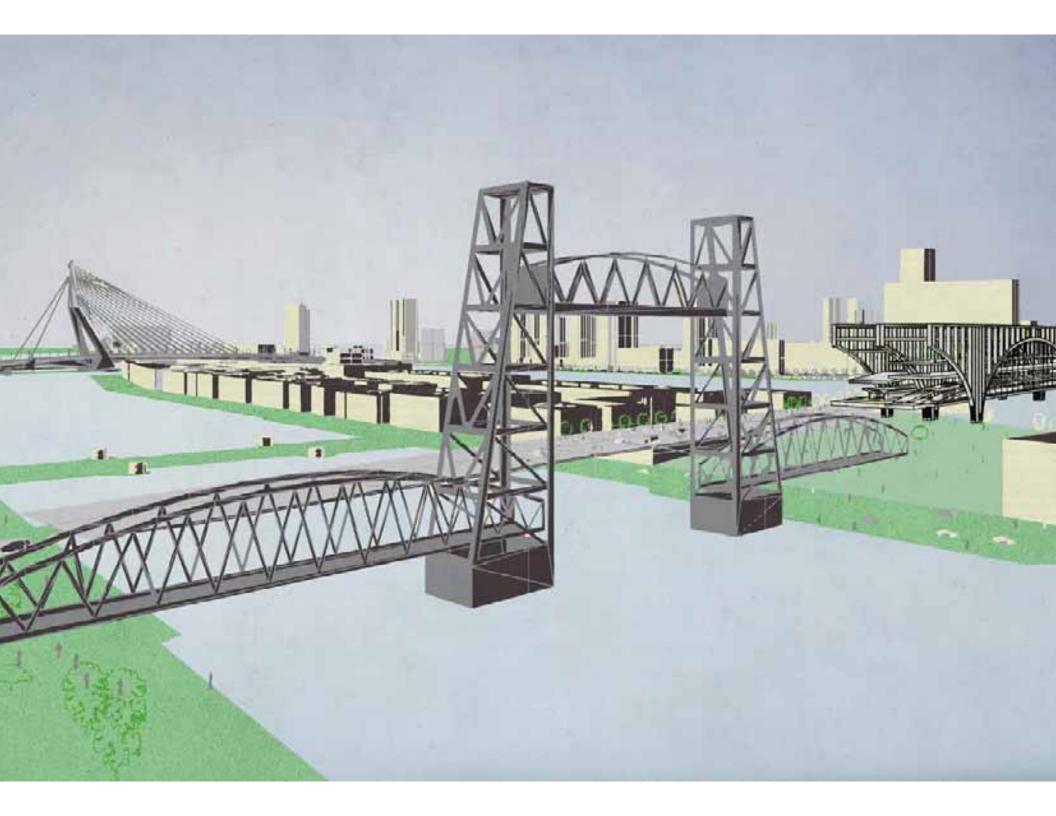




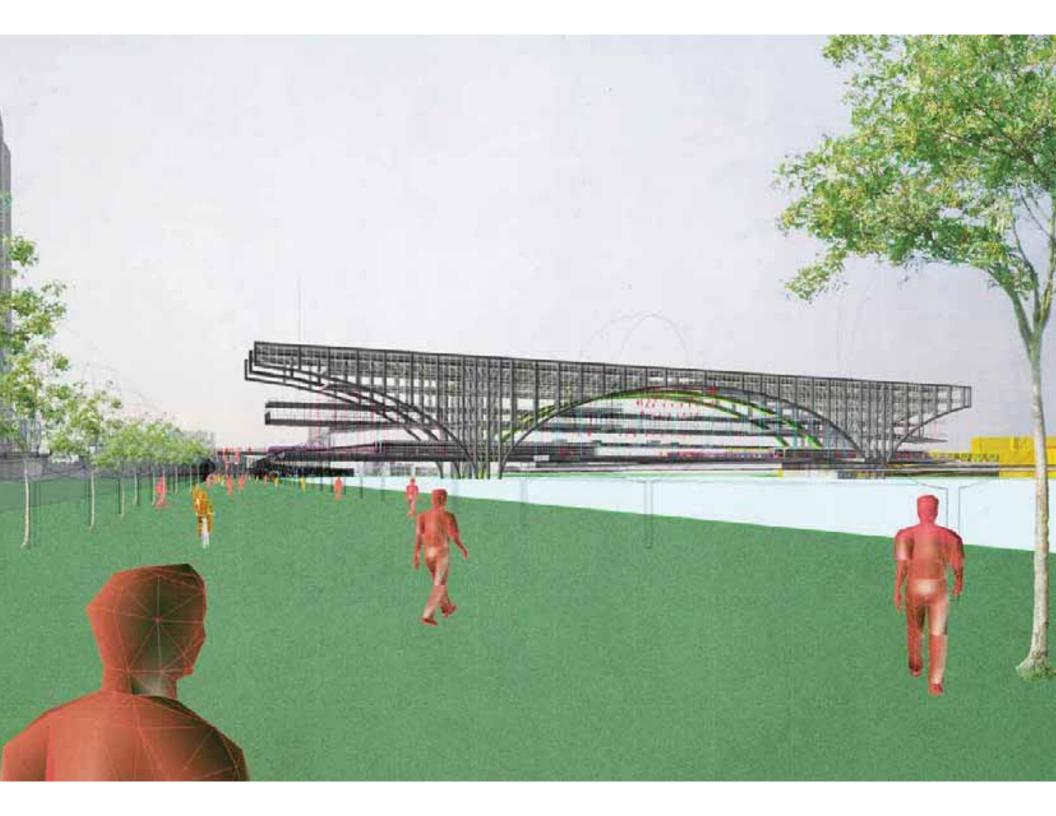
THE FUSION OF ARCHITECTURE AND INFRASTRUCTURE

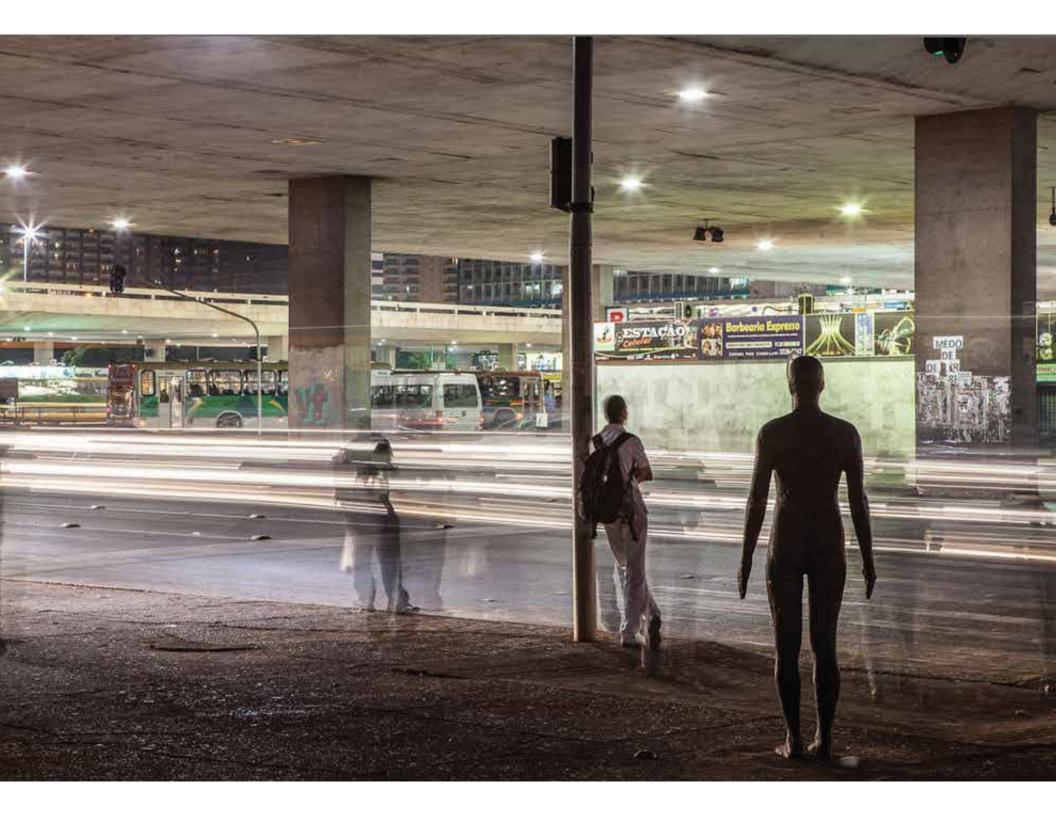


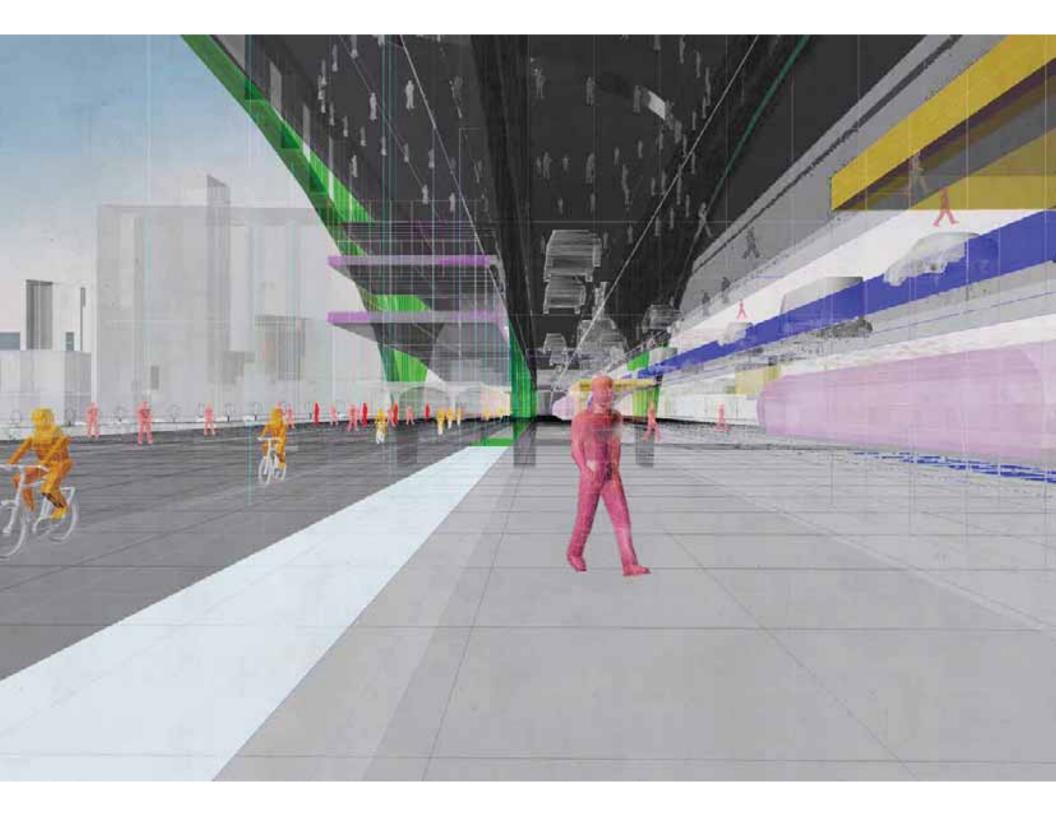






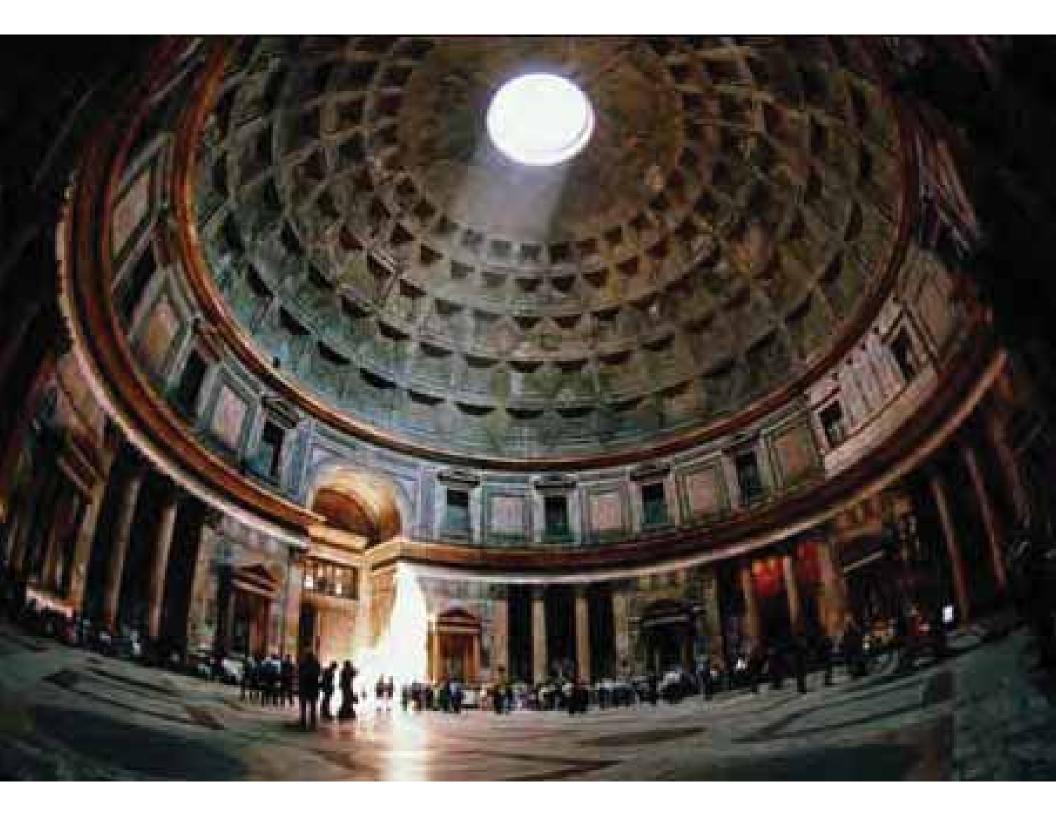


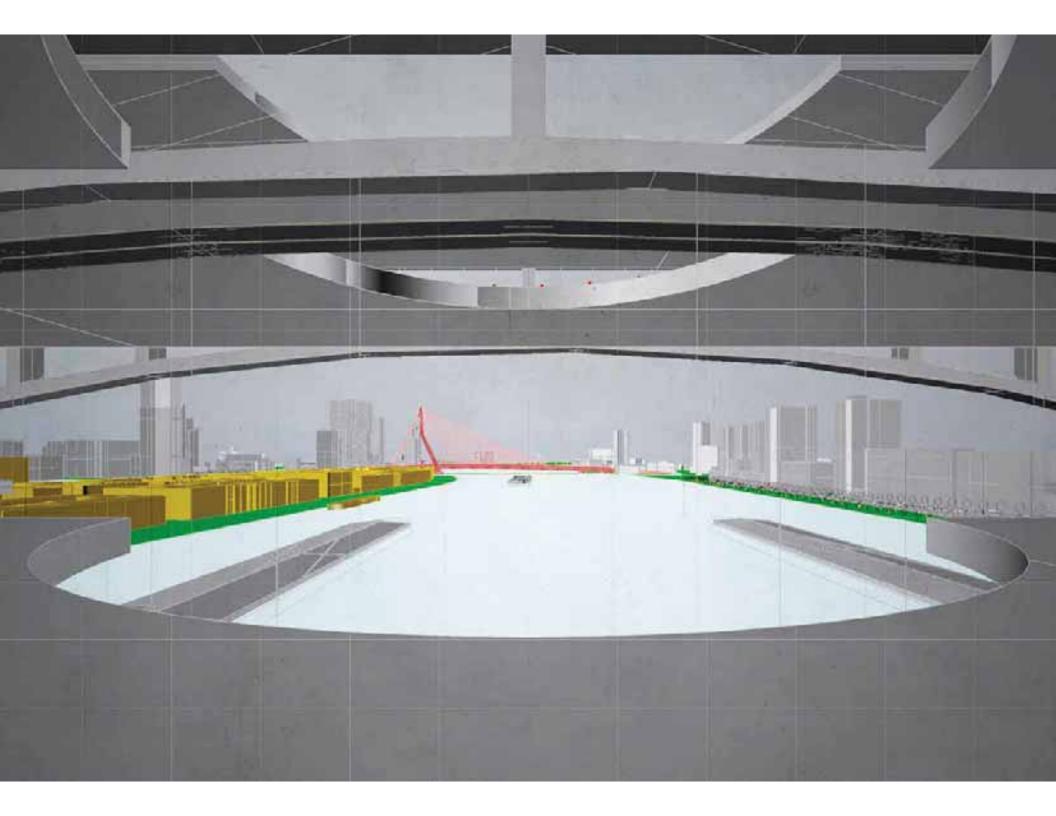




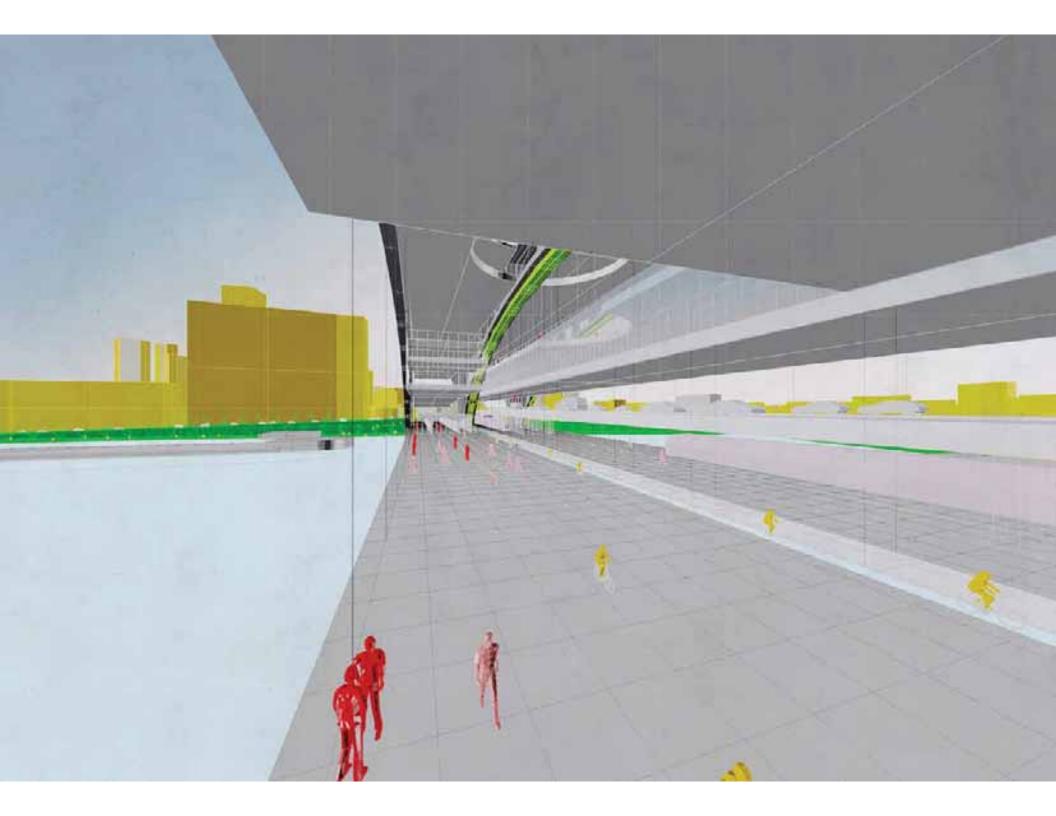




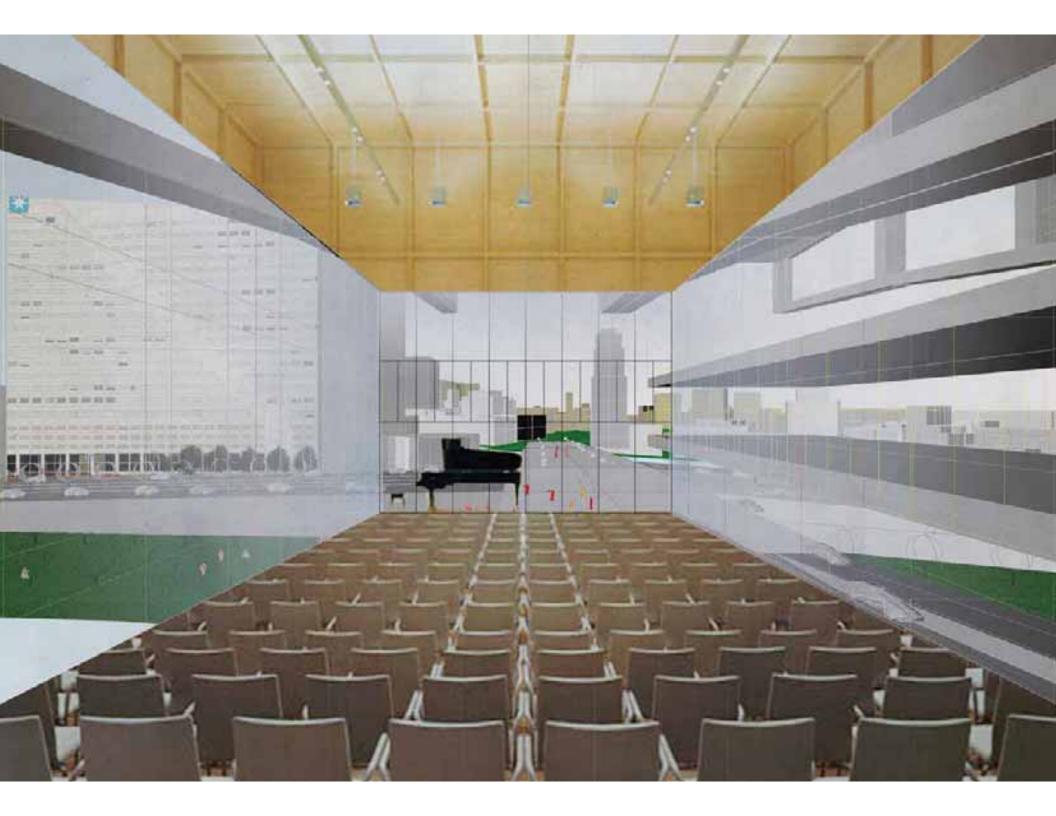




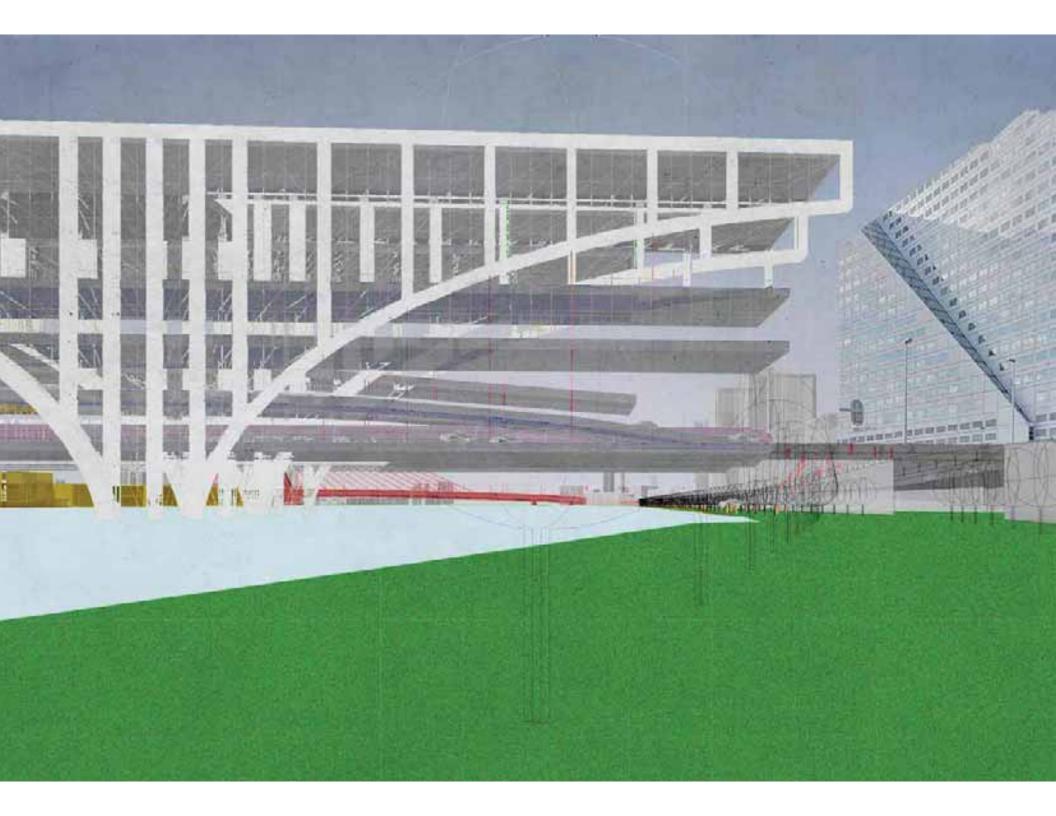


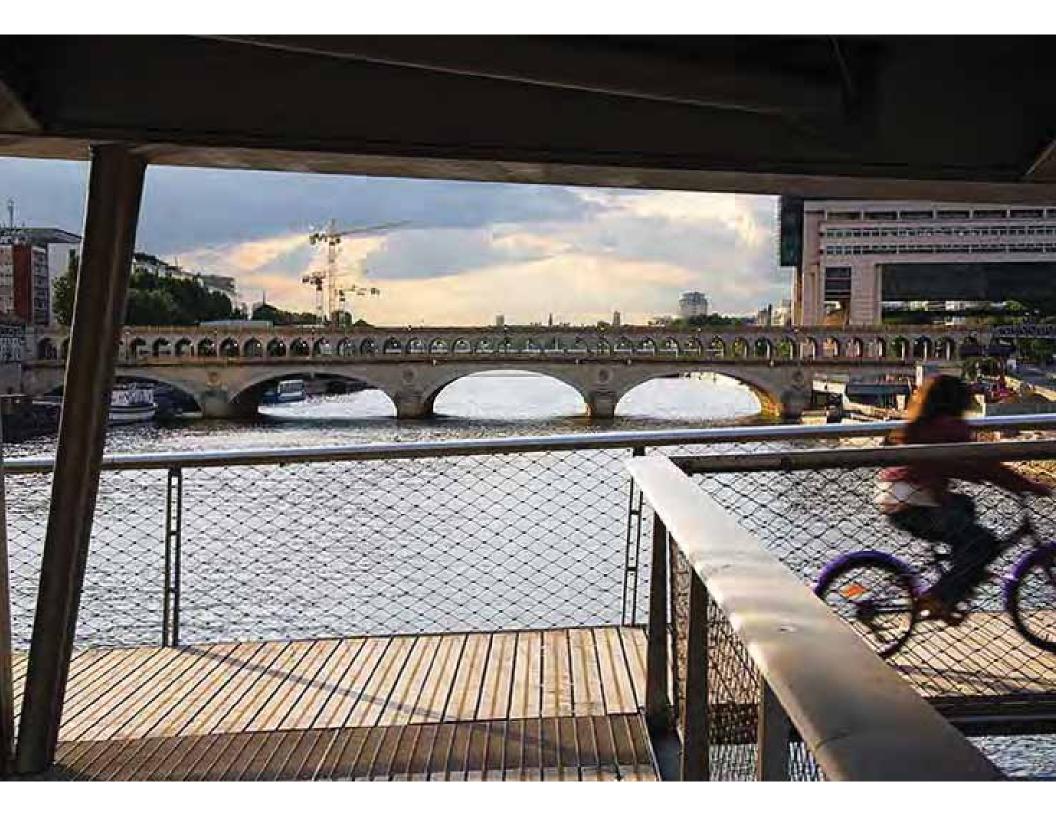


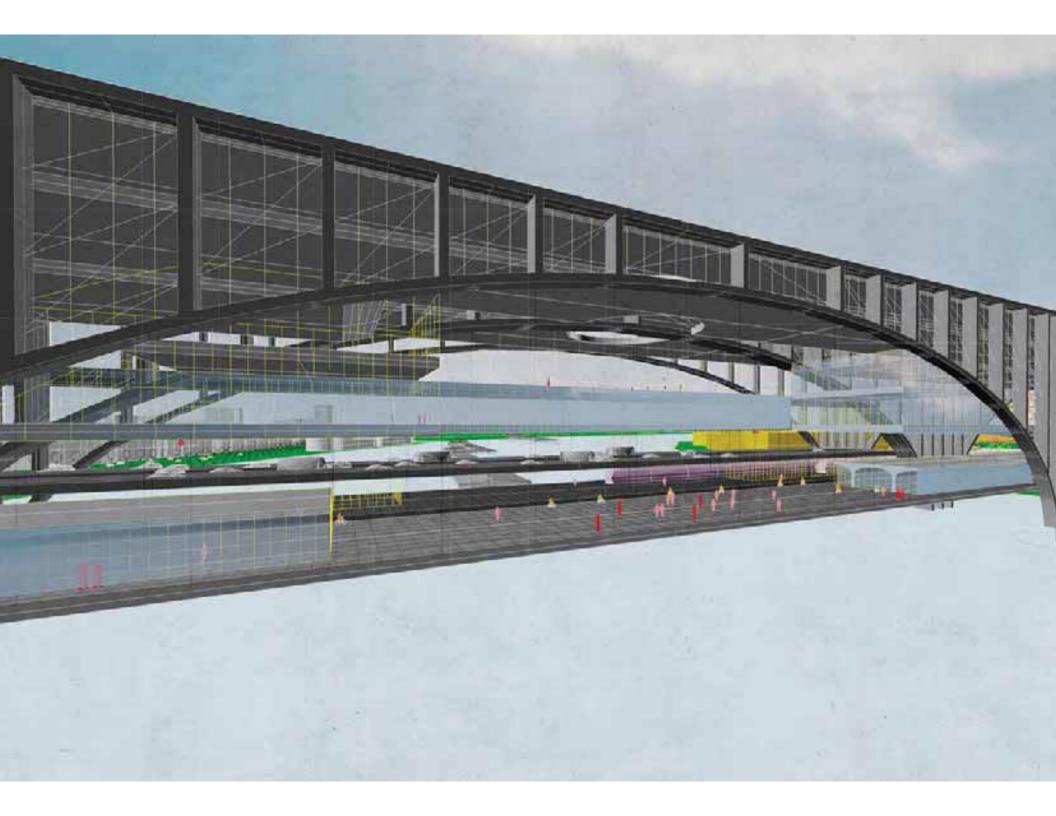












PLANNING



May 15 - June 21 - MODEL 1:200 (Last technical and design consults parallel)

22 - 29 June - Final Drawings & Images 30 June - 4 July Booklet binding & presentation rehearsals

P5 Final Presentation : Friday 5 July 2013



