POLITECNICO DI MILANO

SCHOOL OF ARCHITECTURE AND SOCIETY

MASTER OF ARCHITECTURE

Thesis

KOLLAGE CITY

A TOOLS COLLECTION FOR URBAN PROGRAMS

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ABSTRACT

Questa ricerca tratta i problemi dei nuovi ampliamenti e sviluppi. Nello specifico, tenta di delineare un preciso metodo inteso come uno strumento programmatico, evitando una soluzione univoca per certe realtà problematiche tra le numerose situazioni urbane. Conseguentemente, la ricerca presentata nella tesi che segue favorisce una molteplicità d'azione in un ambiente urbano fornendo una matrice di elementi generatori, il cui fine è di ridefinire il concetto di immagine della città e un metodo che permetta il suo continuo sviluppo.

Poiché il seguente lavoro è stato pensato come un processo logico atto a consegnare i sopracitati elementi programmatici, esso è caratterizzato da un'analisi iniziale intesa a definire il retroterra teorico della ricerca stessa. Infatti, l'elaborato si radica nella teoria della città dell'olandese Office for Metropolitan Architecture. Dunque, il primo passo è stata la ricerca e l'analisi delle tesi teoriche sostenute da OMA nei suoi progetti e nelle sue pubblicazioni. Il seguente approfondimento, inoltre, ha avuto come soggetto principale i masterplan sviluppati dallo studio olandese e le contestualità progettuali nei loro esempi. Successivamente, vi è stata un'individuazione e una selezione dei loro masterplan più significativi. I criteri applicati considerano le attività di OMA che meglio esprimono la pertinenza con le loro teorie e che permette un'identificazione di numerosi casi studio caratterizzati da diverse scale.

Quindi, i casi selezionati forniscono un numero di strumenti programmatici che sono rappresentati nella tesi e sono sintetizzati come otto elementi base dotati di un grado di indipendenza dai differenti masterplan. Questi strumenti a priori esistono a prescindere dai progetti e sono punti chiave della teoria della città di OMA.

Contemporaneamente, vi è stata una ricerca di aree urbane milanesi all'interno delle quali testare gli strumenti programmatici derivanti dalla teoria di OMA. In particolare, le parti di città scelte appartengono al programma di *Riformare Milano*. Questa scelta permette una sperimentazione in aree già analizzate e generalmente site lungo la periferia di Milano, la quale condivide gli stessi temi urbanistici problematici presentati nelle pubblicazioni e nei progetti di OMA.

Tra le aree di *Riformare Milano*, se ne sono scelte quattro caratterizzate da differenti dimensioni, contesti, criticità e si sono applicati i diversi elementi programmatici e generatori in modo da rappresentare nuove visioni urbane delle parti di città preselezionate.

Seguendo e osservando un metodo combinatorio, ognuna delle aree milanesi è divenuta un campione dove testare i diversi strumenti programmatici, un lavoro teorico che ripensa lo spazio urbano come un laboratorio sperimentale aperto che amalgama diversi elementi al fine di consegnare un nuovo composto e una nuova immagine della città.

ABSTRACT

This research deals with the problems of new extensions and redevelopments. Specifically, it tries to outline a precise method meant as a programmatic tool, avoiding a univocal solution for certain problematic realities among the numerous urban situations. Consequently, the research presented in the following thesis encourages a multiplicity of action in an urban environment by providing a matrix of generator elements. They aim to redefine the concept of image of the city and a method that allows its continuous redevelopment.

As far as the subsequent work has been thought as a logical process in order to provide the aforementioned programmatic elements, it is endowed with a starting analysis meant to define the theoretic background of the research itself. Indeed the work roots in the urban theory of the Dutch Office for Metropolitan Architecture. Therefore, the first step has been the research and the analysis of the theoretical theses showed by OMA during its projects and publications. The following depth study, moreover, has had as main subject the masterplans developed by the Dutch office and the designing contexts in their examples. Afterwards, there has been an individuation and a selection of their most significant masterplans. The criteria applied considers OMA's works that better show the pertinence with their theories and allows an identification of several case-studies characterised by different scales.
Hence, the selected cases provide an amount of programmatic tools that are shown in the thesis and are synthesised as eight basic elements endowed with a grade of independency from the different masterplans. Those *a priori* tools exist a part from the projects and are cornerstones of OMA's urban theory.

Meanwhile, there has been a research of Milanese urban areas within whom to attempt the programmatic tools coming from OMA's theory. In particular, the selected parts of the city belong to the *Riformare Milano* program. This choice allows an experimentation in areas already analysed and usually placed along the periphery of Milan, which share the same problematic urban themes presented in OMA's publications and projects.

Among the *Riformare Milano* areas, they have elected four of them characterised by different dimensions, contexts, critical issues and have applied the different programmatic and generator elements in order to give new urban visions of the pre-selected parts of the city.

By following and observing a combinatorial method, each of the Milanese areas became a specimen where to test the different programmatic tools, a theoretic work that rethink the urban space as an open experimental laboratory that mixes different elements in order to provide it with a new blend and a new image of the city.

Kollage City_A tools collection for urban programs

Drawing list:

D00 – Cover

OMA_01 – Masterplan_Deconstruction_01
OMA_02 – Masterplan_Deconstruction_02
OMA_03 – Masterplan_Deconstruction_03
OMA_04 – Masterplan_Deconstruction_04
OMA_05 – Masterplan_Deconstruction_05
OMA_06 – Masterplan_Deconstruction_06
OMA_07 – Masterplan_Deconstruction_07
OMA_08 – Masterplan_Deconstruction_08
OMA_09 – Masterplan_Deconstruction_09
OMA_10 – Masterplan_Deconstruction_10

D01 – Tools_Collection_01
D02 – Cluster_Diagram_02

MI_EM_01 – Masterplan_Ex Macello_01
MI_EM_02 – Masterplan_Ex Macello_02
MI_EM_03 – Masterplan_Ex Macello_03

MI_FA_03 – Masterplan_Forze Armate_01
MI_FA_03 – Masterplan_Forze Armate_02
MI_FA_03 – Masterplan_Forze Armate_03

MI_PM_01 – Masterplan_Porto di Mare_01
MI_PM_02 – Masterplan_Porto di Mare_02
MI_PM_03 – Masterplan_Porto di Mare_03

MI_SC_01 – Masterplan_San Cristoforo_01
MI_SC_02 – Masterplan_San Cristoforo_02
MI_SC_03 – Masterplan_San Cristoforo_03

Parc de La Villette

Location/Paris, France
Year/1982
Status/Commissioned Study
Leading Tool/Bands
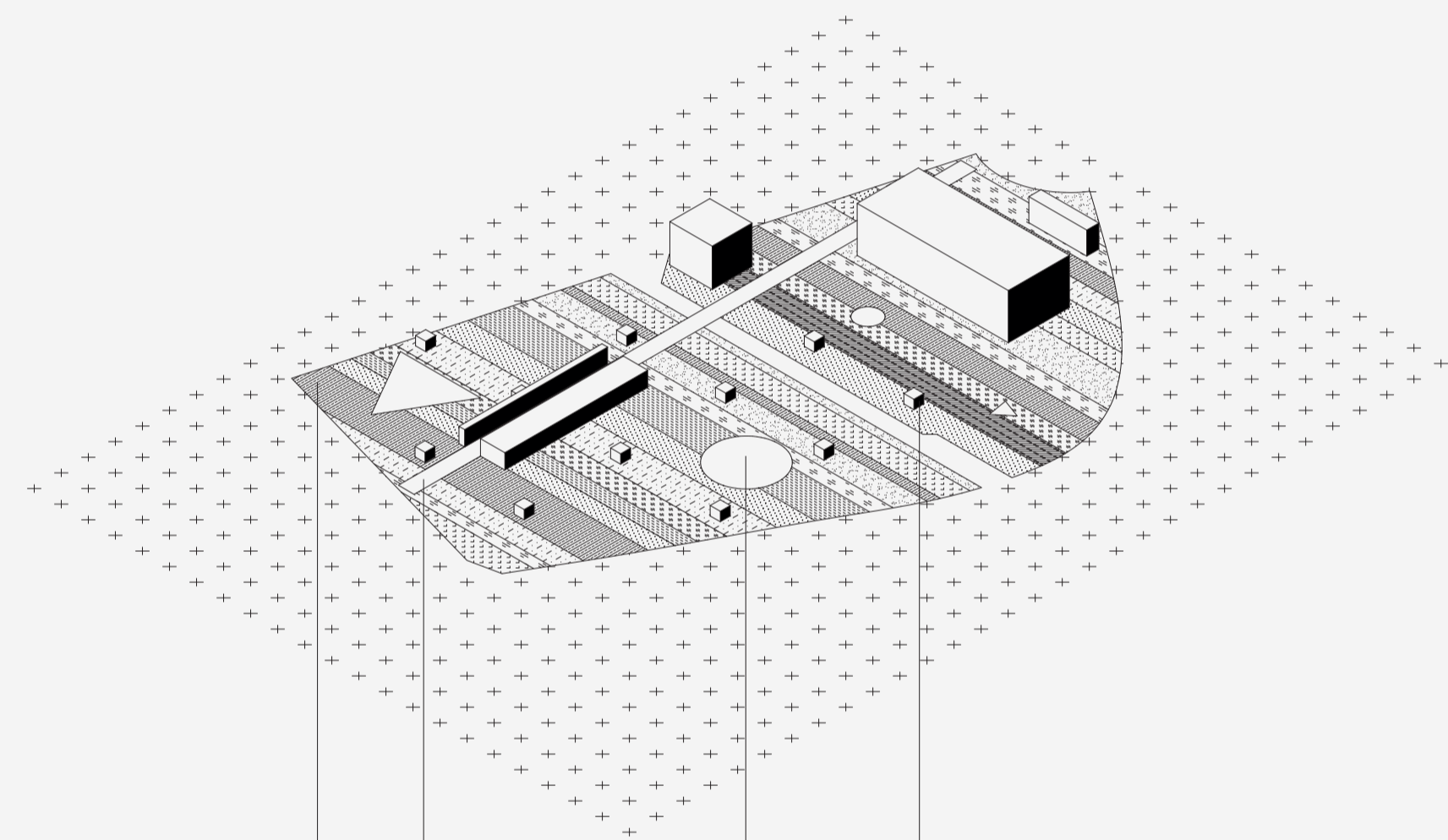
Connector

Horizontal and extroverted movement between bands are achieved trough a large connector (the boulevard) and an inner path (the promenade).

Layers

The whole program is arranged according to different layers. Some facilities – kiosks, playgrounds, barbecue spots are superimposed mathematically. The access and circulation system occupies another layer.

Bands

The major programmatic components are distributed in horizontal bands across the site, creating a continuous atmosphere in its length and perpendicular, rapid change in experience.

Objets Trouvés

Unique objects, added and found, which are too large to be located according to mathematical rules or to a system are placed in a final layer. the relative regularity and neutrality of the bands forms a background against which these elements become significant.

Exposition Universelle

Location/Paris, France
Year/1983
Status/Design Development
Leading Tool/Programmatic Grid
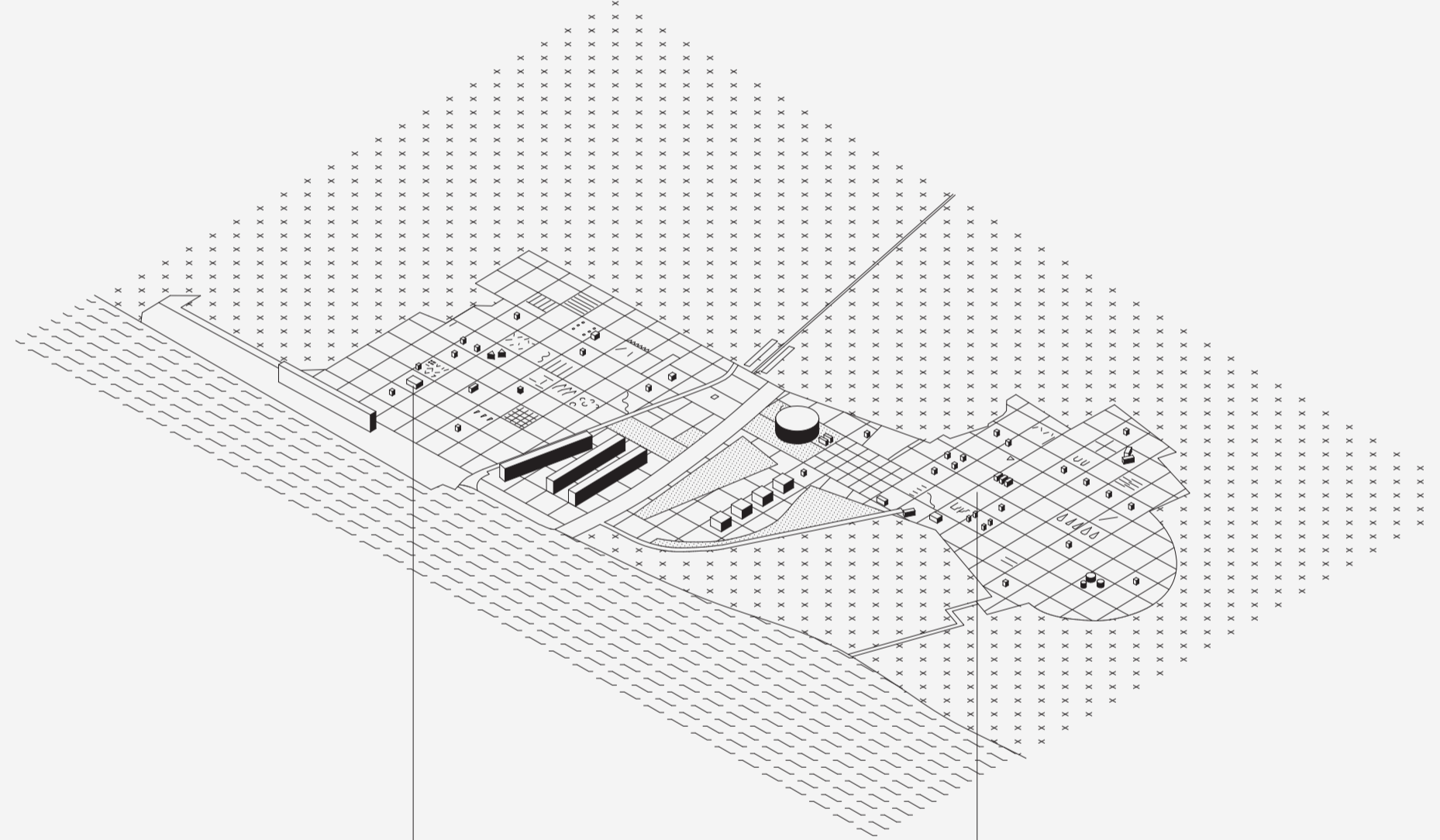
Programmatic Grid

The subdivision of the site in a grid with no hierarchy allow navigation from plot to plot in a completely random and individual sequence it represent also the ultimate form of equality: each country is given the same shape and area.

Objets Trouvés

There are no planned buildings in this project: each country would get a square; on its square it could do whatever it wanted. If it was poor, the country would turn its site into a desert. If it was rich, a mirror-clad cube, creating a collection of scattered objects on a surface.

Bijlmermeer Redevelopment

Location/Amsterdam, Netherlands
Year/1986
Status/Commissioned Study
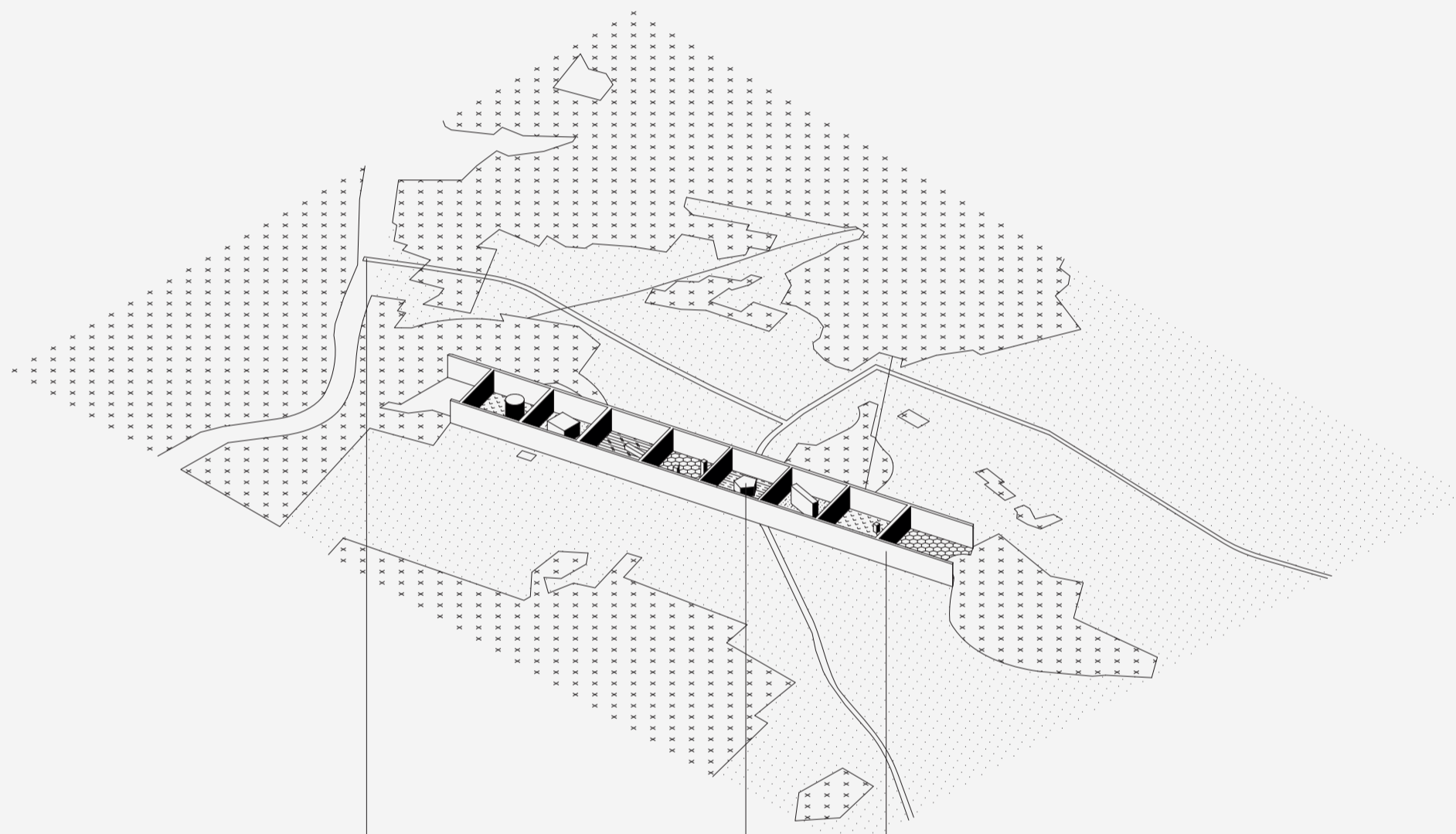Leading Tool/Connector
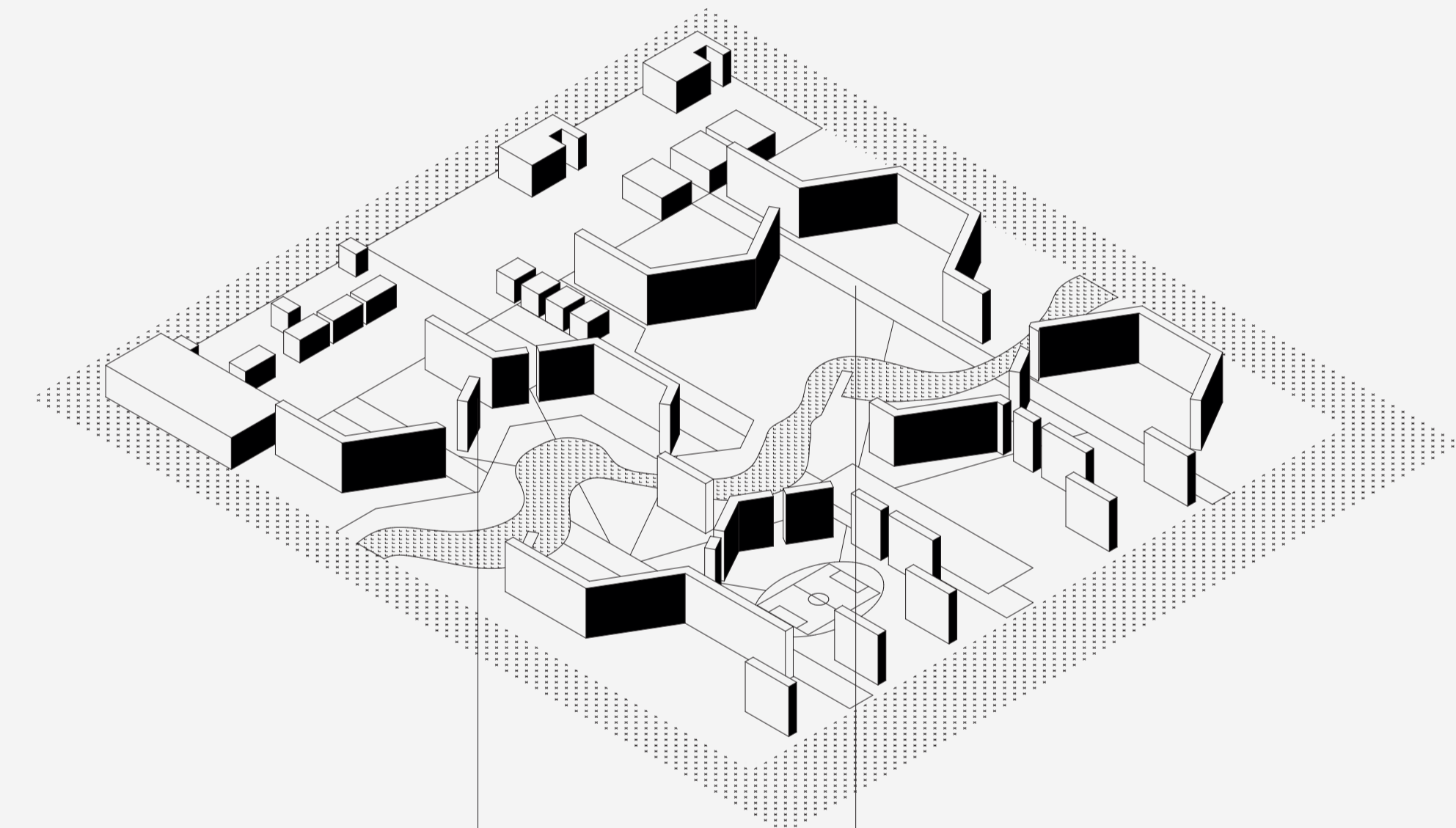
Connector

Fragments of urban fabric are enclosed in different quadrants, each of the them is linked to the surrounding one trough connecting elements.

Objets Trouves

Every quadrant is provided with a nucleus of social, commercial and cultural life in order to generate curiosity therefore circulation.

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Ville Nouvelle Melun Senart

Location/Melun, France
Year/1987
Status/Competition
Leading Tool/Bands

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Stad Aan de Stroom

Location/Antwerp, Belgium
Year/1989
Status/Commissioned Study
Leading Tool/Programmatic Grid

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Mission Grand Axe

Location/Paris, France
Year/1991
Status/Competition
Leading Tool/Tabula Rasa

Connector

The main campus band works as a large scale connector, relating existing cores in a large entity

Bands

A system of bands – linear voids – is inscribed on the site, some of them are traced to preserve the original landscape or historic particles; other run parallel to the highways to make them « attractive » urban elements; other distribute the major programmatic components

Objets Trouvés

Together, the bands define an archipelago of residue – the islands – of different size, shape, location, and with varying relationships to the givens of nature and infrastructure. They constitute an anthology of projects.

Bigness

A 19th century axis is designed in order to develop attractive high rise and a clear identity for its hybrid conditions and attractions.
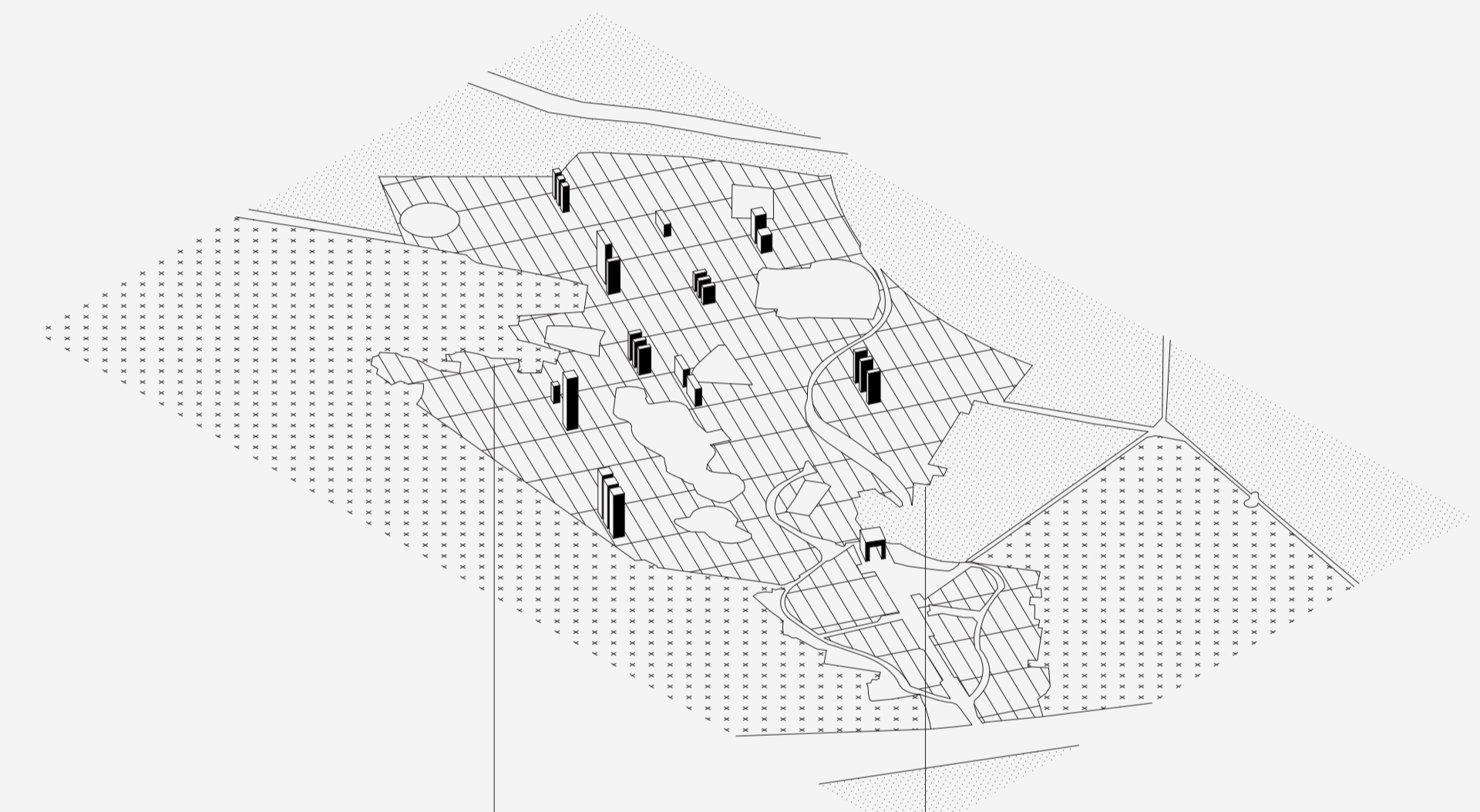
Programmatic Grid

The site is divided according to a major grid independent from the surrounding maze of infrastructures.

Objets Trouvés

Programmatic porosity is achieved through perforating the grid with towers.
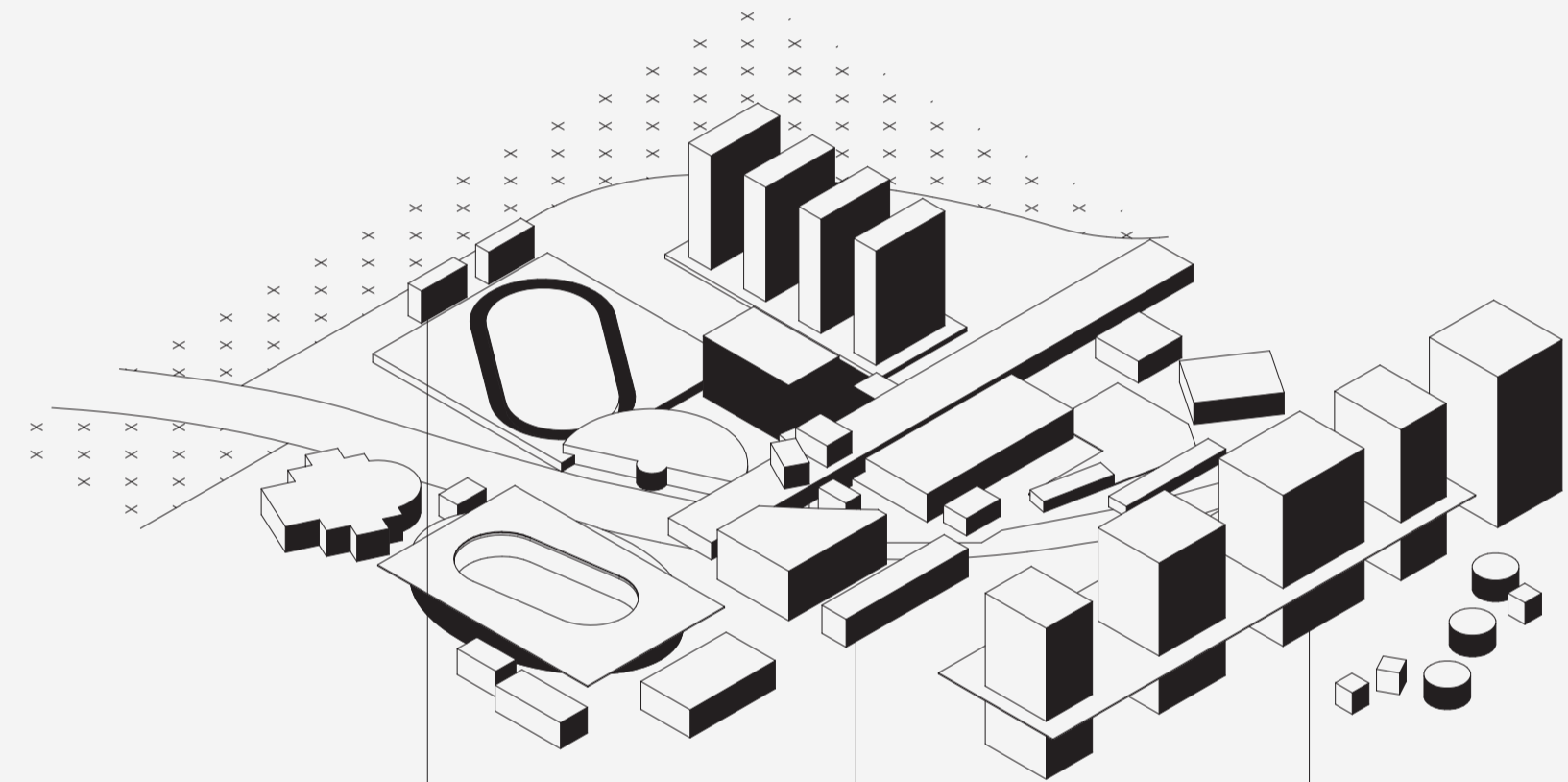

Programmatic Grid

The grid proposed here is at the same time conceptual and operational, it will not subject everything in its way to its discipline but will act as a filter to absorb existing entities to preserve.

Tabula Rasa

The aim of the project is to generate a critical mass of urban renewal, to imagine an anti-utopian strategy that would transform, beyond the tabula rasa, the most banal economic gwens into a utilitarian polemic; to interpret the extension of La Défense as the gradual, progressive transformation of this chaotic "beyond" into a new urban system

Yokohama Masterplan

Location/Yokohama, Japan
Year/1991
Status/Competition
Leading Tool/Layers

Layers

The proposal is for a continuous and formless project, which engulfs the site like a kind of programmatic "lava". Three layers of public activity are manipulated to support the largest variety of events with a minimal amount of permanent definition.
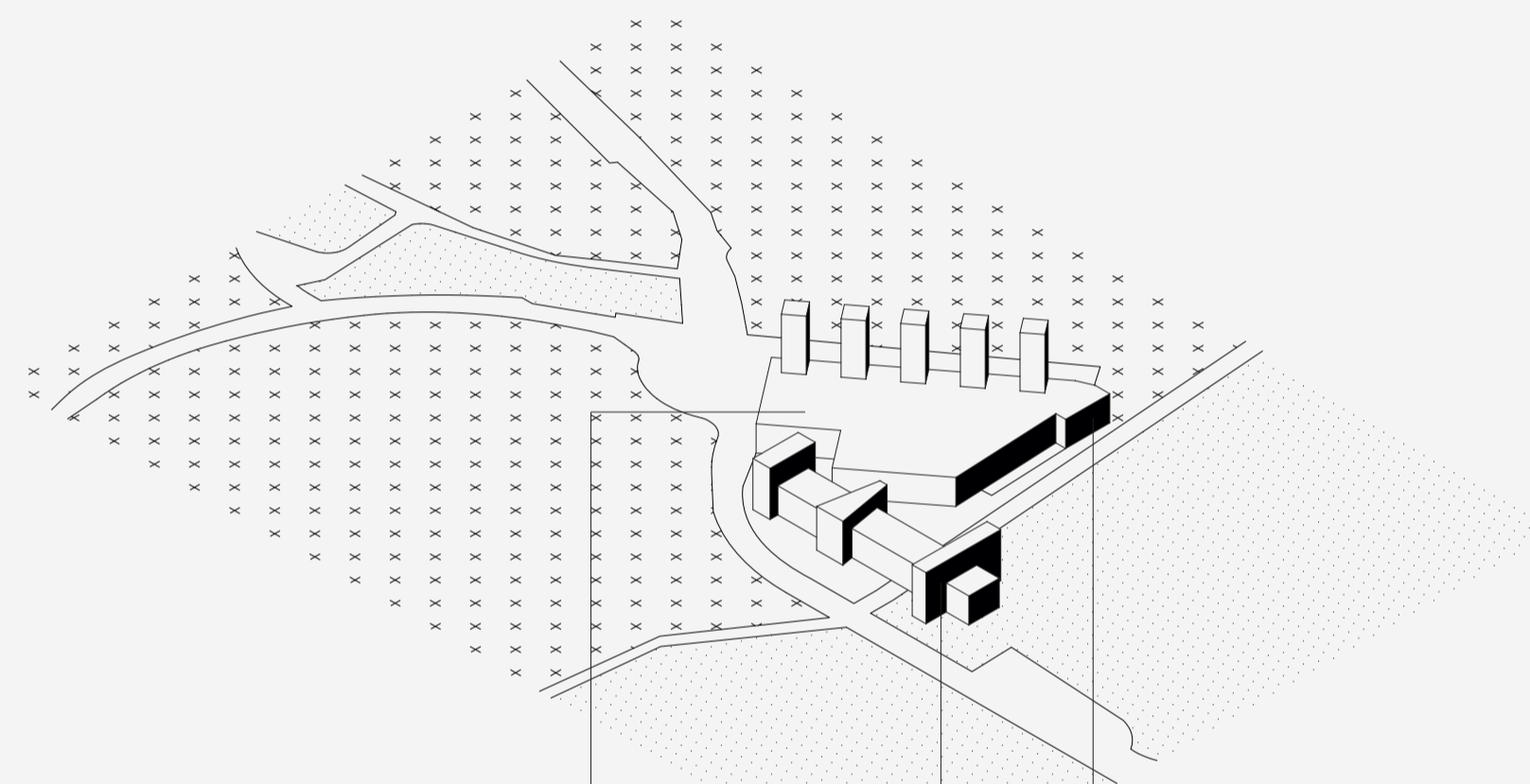
Bigness

Toward the city large towers emerge from the programmatic lava to host communication, and technology services.

Borders Filling

Covering the southeast corner of the site, this programmatic tapestry leaves an area of the former docks intact, giving a degree of a three-dimensional anchoring to the site.

Euralille

Location/Lille, France
Year/1994
Status/Completed
Leading Tool/Bigness

Bigness

The large scale of the intervention and the overwhelming program led to the design of massive architectures: the enormous plane of concrete of the Congrexpo and the gigantic tilted triangle des gares emerging in historic city.

Layers

The abundance of programmatic elements together with the short-circuit of major infrastructures led to the layering of them, a contemporary Piranesian space in one overtly metropolitan gesture.

Objets Trouvés

Towers become part of this new urban network, objets trouvés protruding from the socle built over the railway designed by different architects.

A4 Corridor

Location/Amsterdam, Netherlands
Year/1995
Status/Commissioned Study
Leading Tool/Programmatic Grid
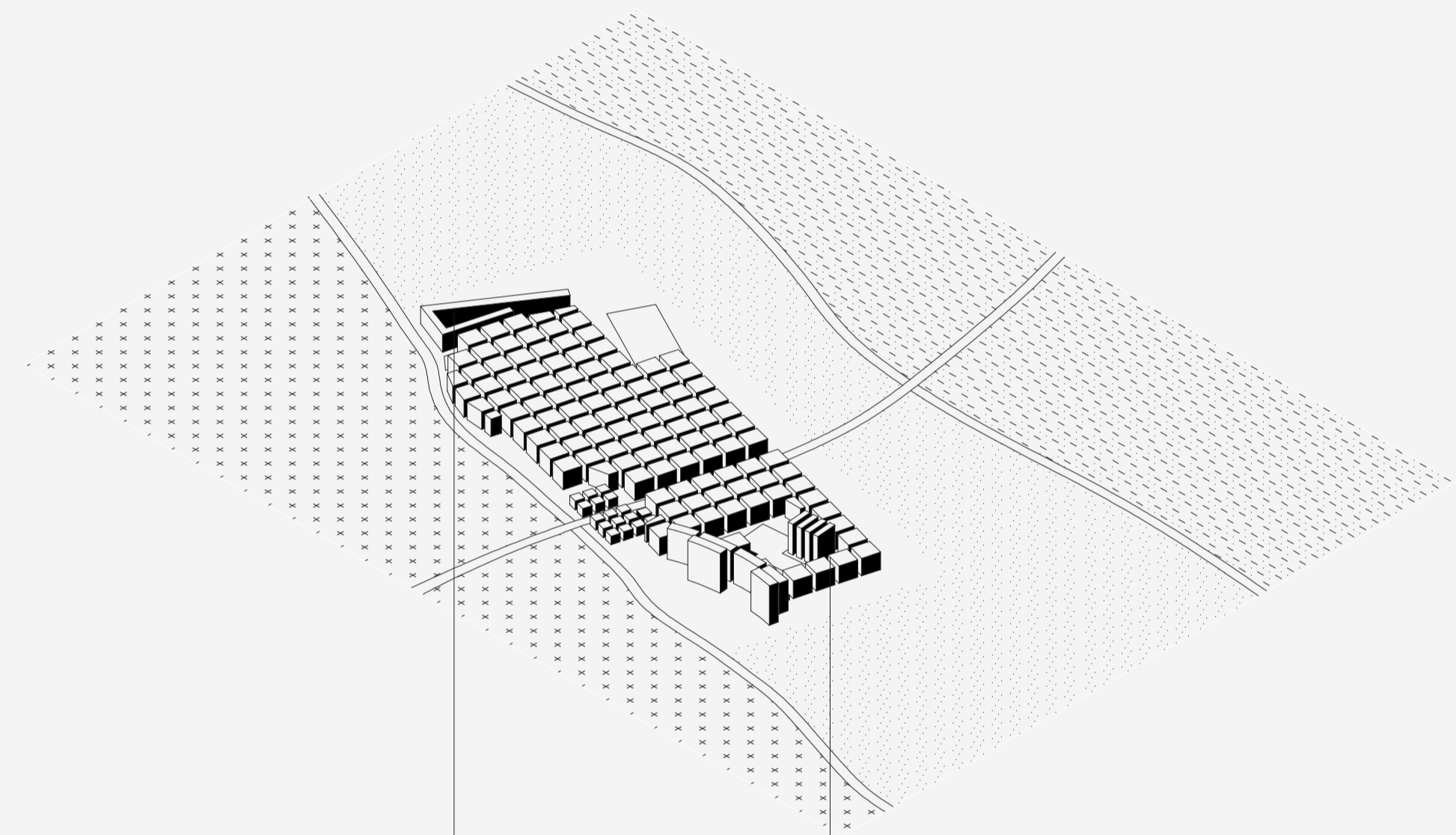
Programmatic Grid

To define the new settlements along the motorway a new grid system is laid at the main junctions. The grid is not connected to the surrounding built environment, as it is part of the new superimposed infrastructures.
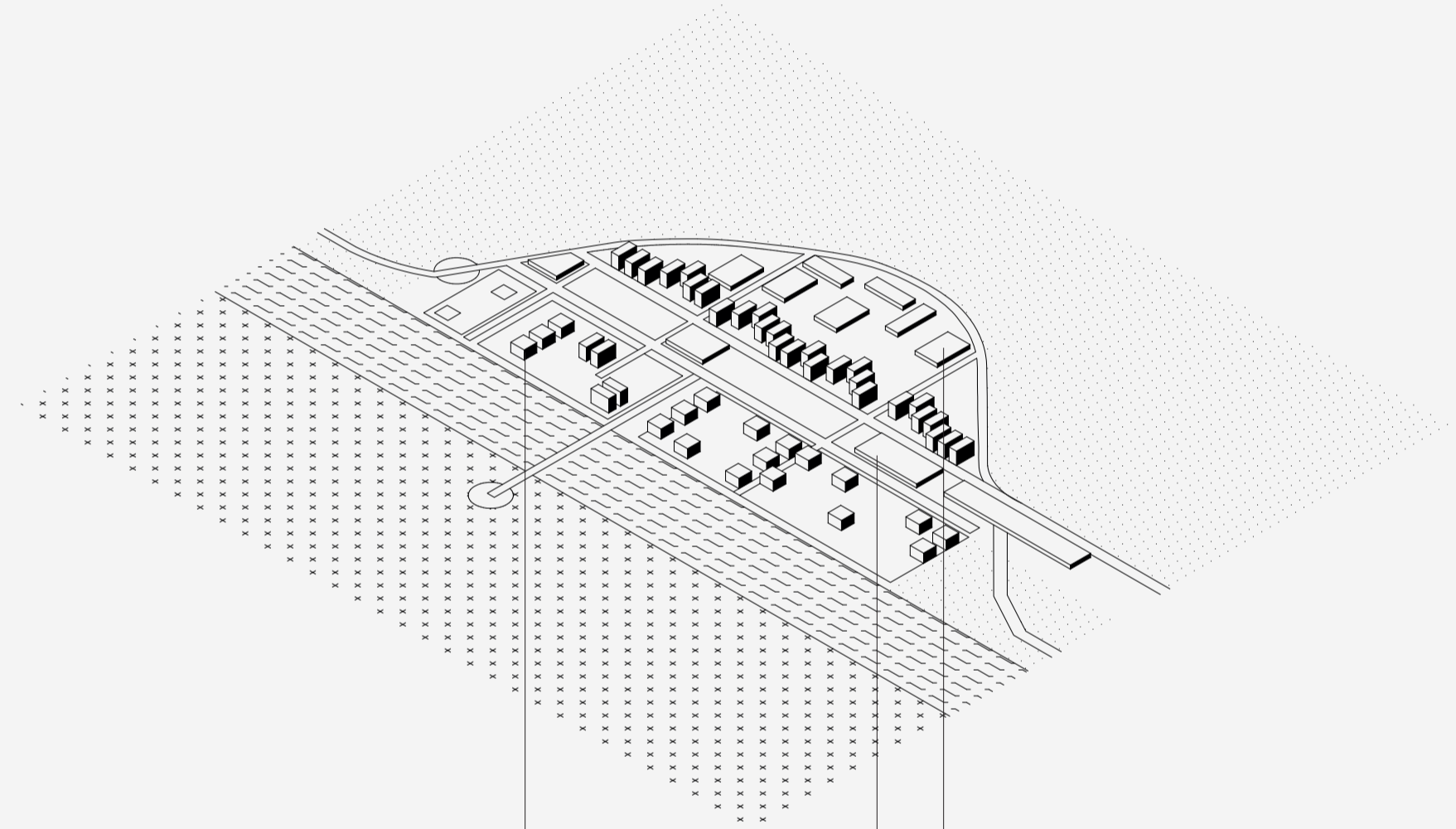
Objets Trouvés

Several large objects labelled attractors, with the aim to host public activities as well as corporate headquarters, break the grid.

Papendorp

Location/Utrecht, Netherlands
Year/1997
Status/Completed
Leading Tool/Borders Filling

Bands

The program is landscaped into different bands, each of them blending in, creating new typologies such as units combining residential and workspace.

Borders Filling

The triangular site has a strong spatial boundary, major motorways to the south and the west, a canal to the north-east. To create a landscaped environment most of the large buildings are pushed to the edges.

Connector

The Transferium, a multi-modal transport facility that includes numerous services and retail, dominates the site. It stretch all along the neighborhood connecting different programs: residential, business and sport facilities.

Philips

Location/Eindhoven, Netherlands
Year/1999
Status/Competition
Leading Tool/Bigness
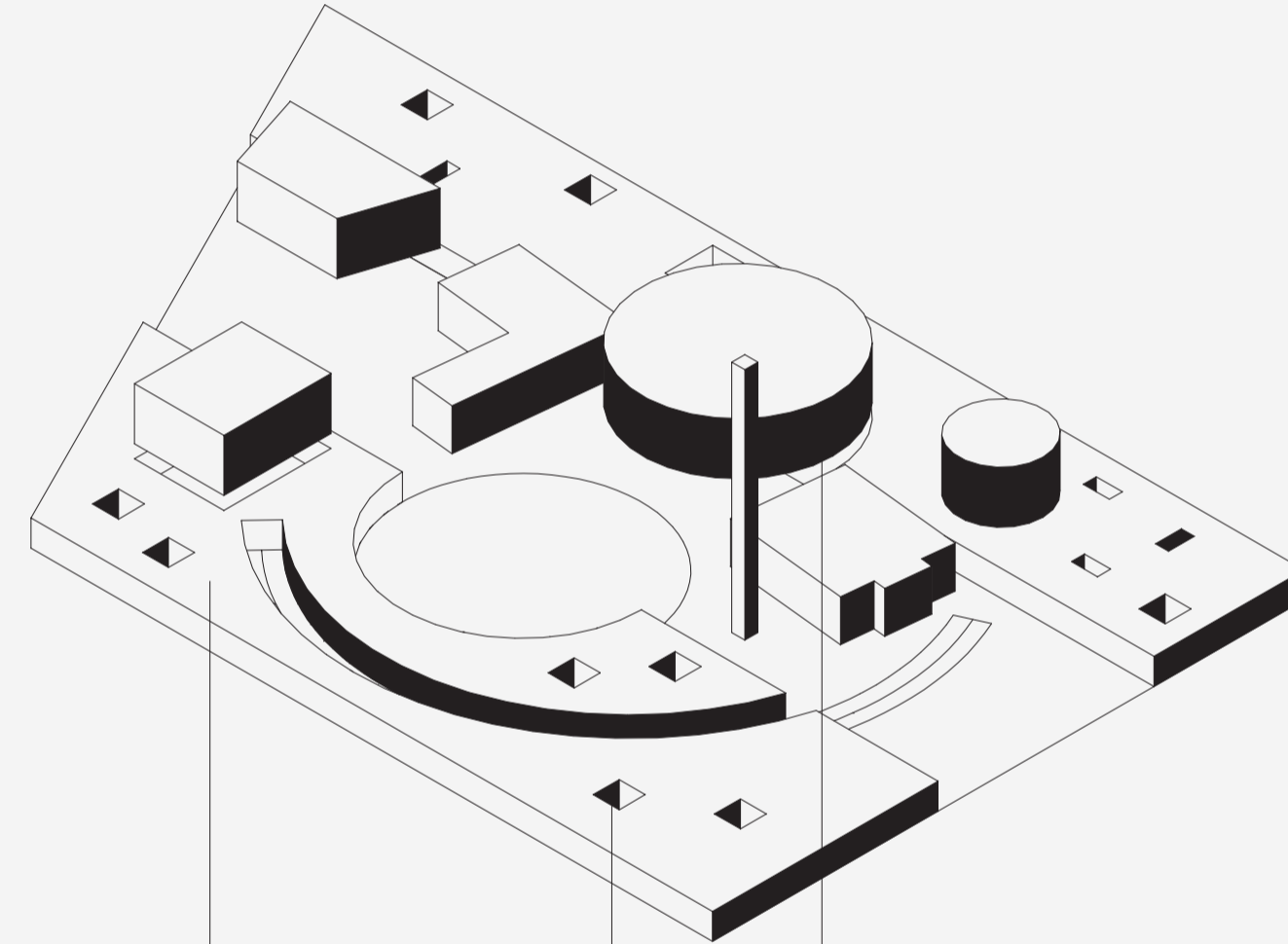
Layers

A single layer with only 1 story covers the whole site like a landscape. The buildings and special sites which remain are the cuts in this built tapestry.
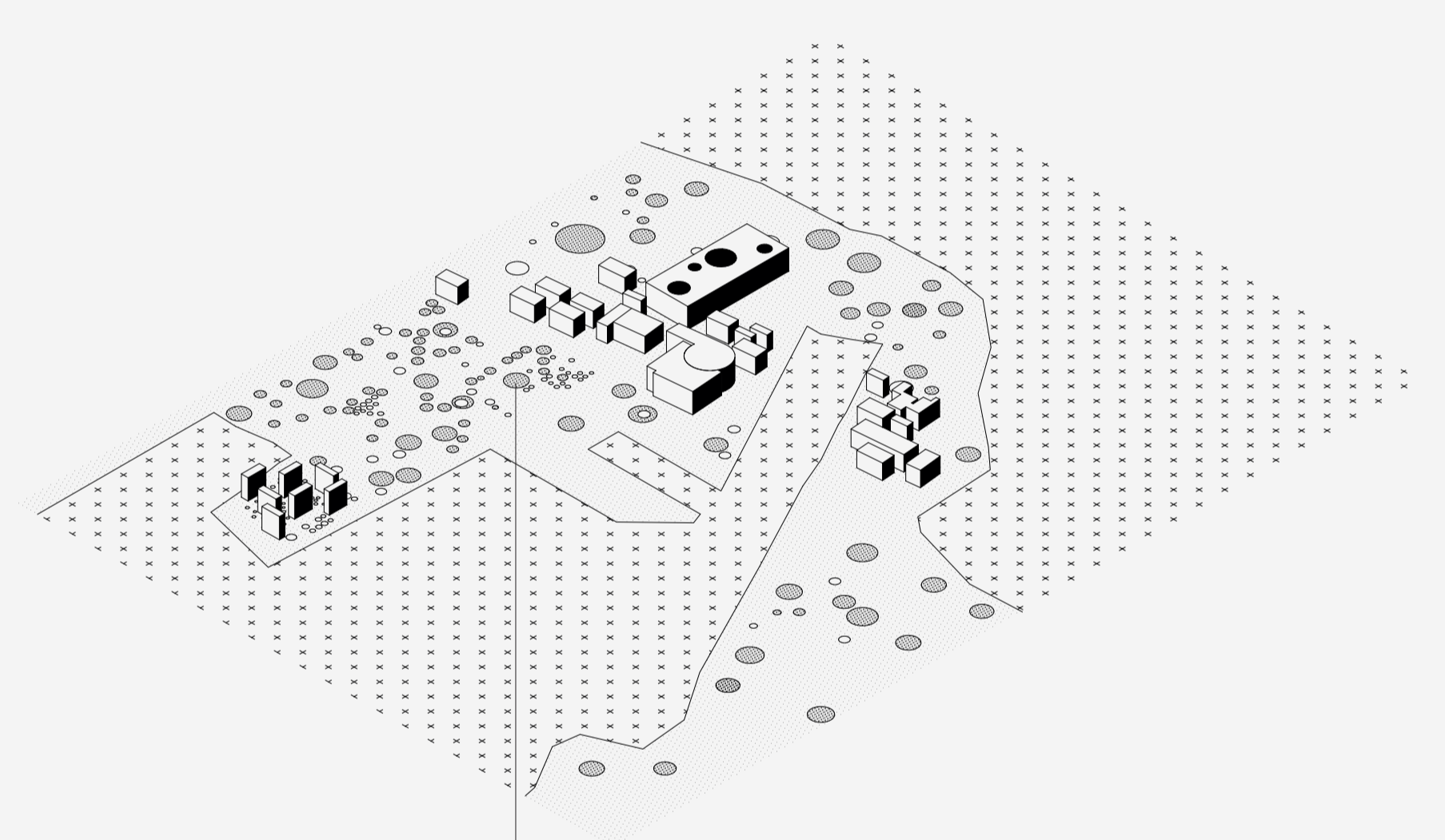
Bigness

Landmark objects rises from the 1 story platform and hovers over it.

Objets Trouvés

The whole area is filled with 1 story, with cuts were special sites and earlier buildings exist, emerging like ruins from this programmatic carpet.

Downsview Park

Location/Toronto, Canada
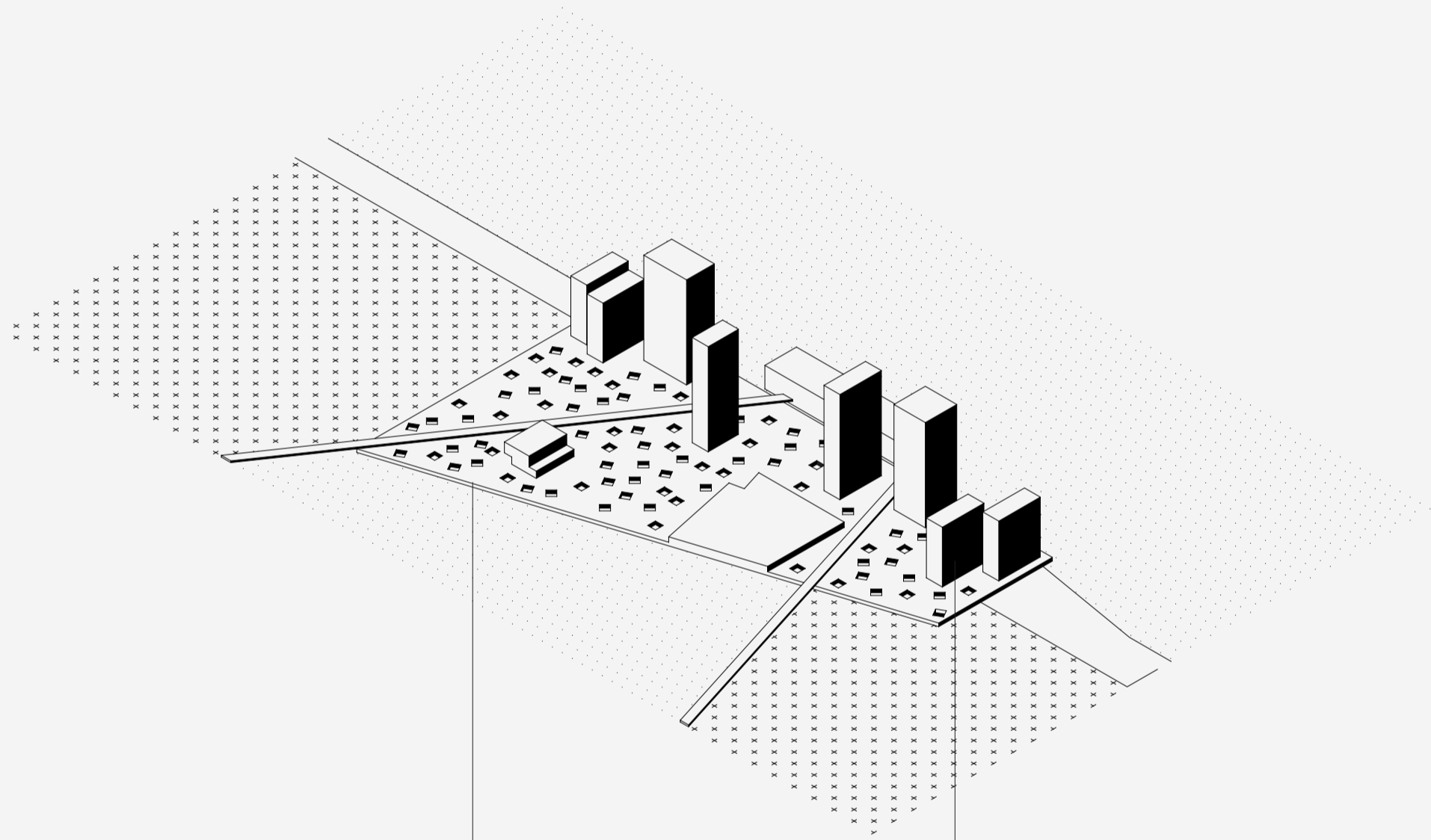Year/2000
Status/Competition
Leading Tool/Objets Trouvés

Objets Trouvés

Nature is landscaped in a matrix of circular tree clusters which includes programmatic elements.

Union Station

Location/Toronto, Canada
Year/2000
Status/Competition
Leading Tool/Bigness

Layers

A single huge roof pierced by many patios covers a set of layers for railways, parking and other specific programs. This programmatic and formless strata engulfs the whole site

Bigness

A series of tall buildings hosting financial services towers over the site, emerging from the programmatic tapestry. The massive Air Canada Centre also hovers on it

Harvard

Location/Cambridge, USA
Year/2001
Status/Commissioned Study
Leading Tool/Tabula Rasa
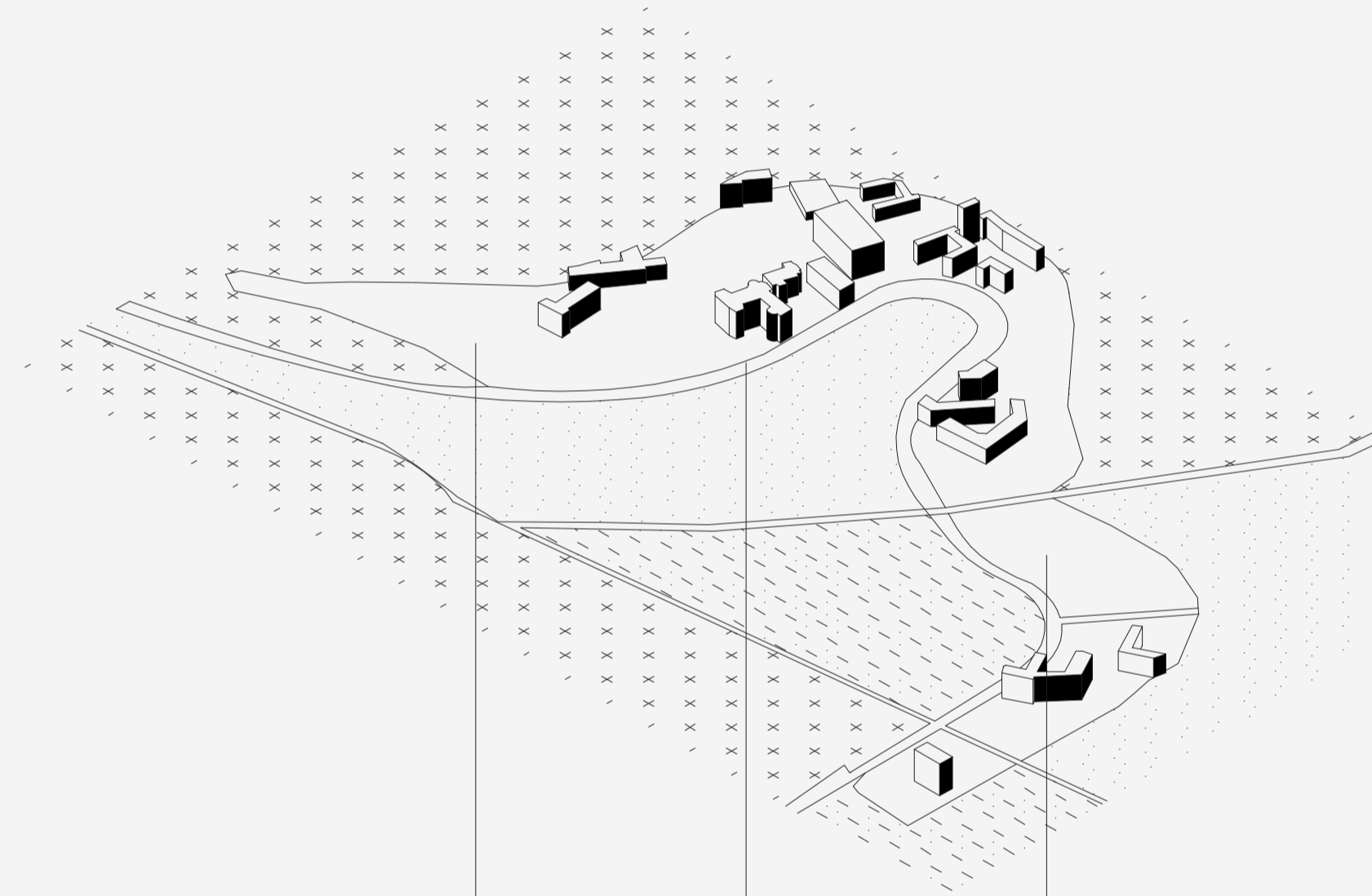
Bands

By diverting the Charles River, previously separated parts of the campus are reconnected by bands of infrastructure, academic space and parks

Connector

The campus, previously divided by water, has now the possibility to structure a new backbone in order to redistribute flows integrates its campus and intensifies academic communication, collaboration and innovation

Tabula Rasa

The potential space created by diverting the river course is untouched by any previous historical layer, the dream/nightmare of the tabula rasa right in the middle of the historic city

Les Halles

Location/Paris, France
Year/2003
Status/Competition
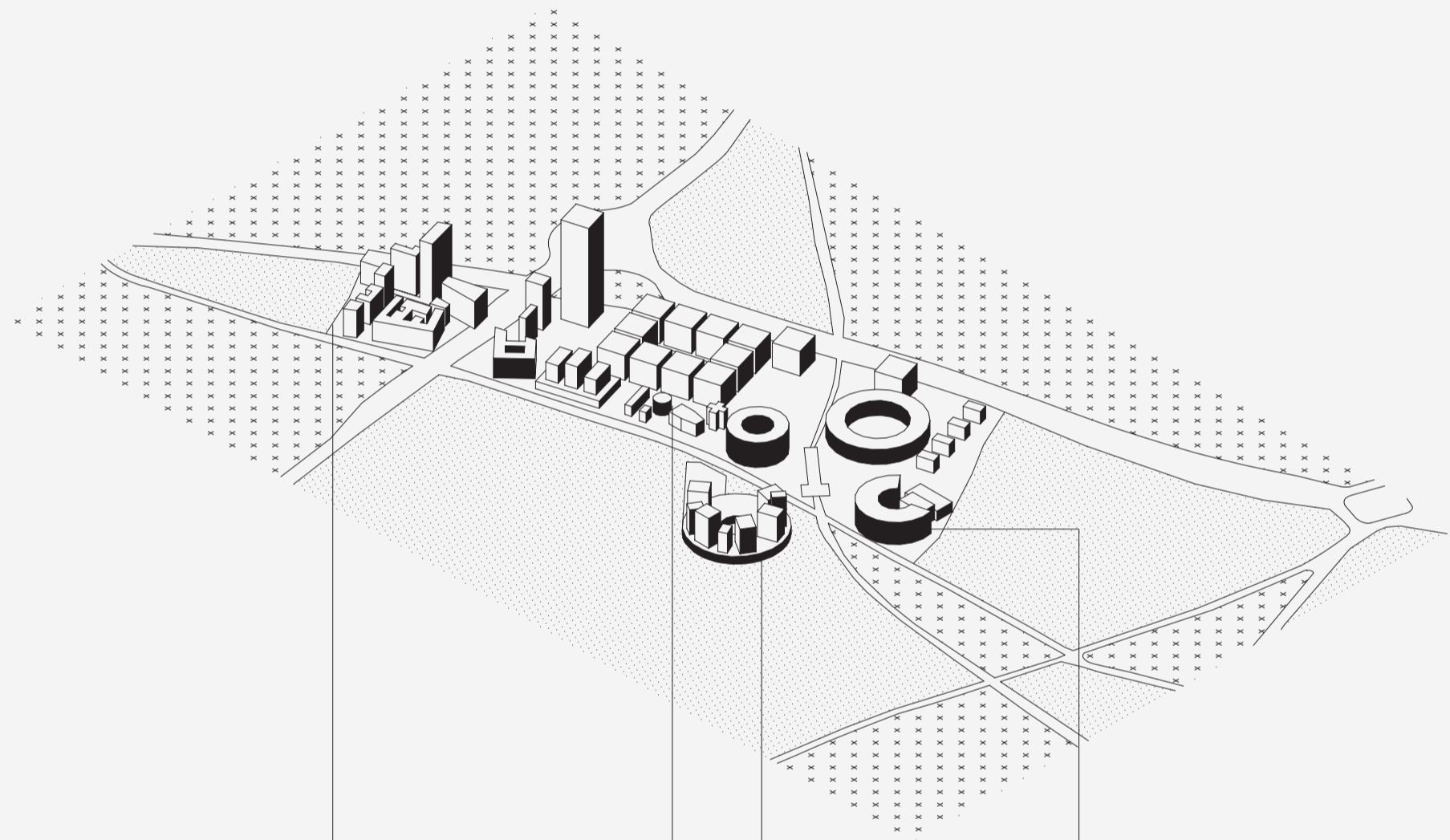Leading Tool/Layers

Layers

A group of buildings that are in part structures that emerge from the underground and in part penetrations into the ground from the surface fills the site, help solving the "schizophrenia" that exists in Les Halles between the underground layers and the surface

Objets Trouvés

The landscape of Les Halls is conceived as a field of random circles, containing completely different plant species and activities. Pavilions with very different identities are scattered on this multi-faceted surface

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White City

Location/London, UK
Year/2004
Status/Competition
Leading Tool/Tabula Rasa

Tabula Rasa

By working on a totally white sheet in the urban fabric the project can act as an exciting forum for rethinking the notion of masterplan.

Bigness

Large attractors are planned to house cultural and economical activities to stimulate local economy.

Programmatic Grid

The new grid aims to mediate the divide between two very different neighborhoods by creating links between the surrounding urban clusters.

Objets Trouvés

The insertion of apparently unplanned elements encourage interaction.

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S Project

Location/Seoul, Korea
Year/2004
Status/Competition
Leading Tool/Layers
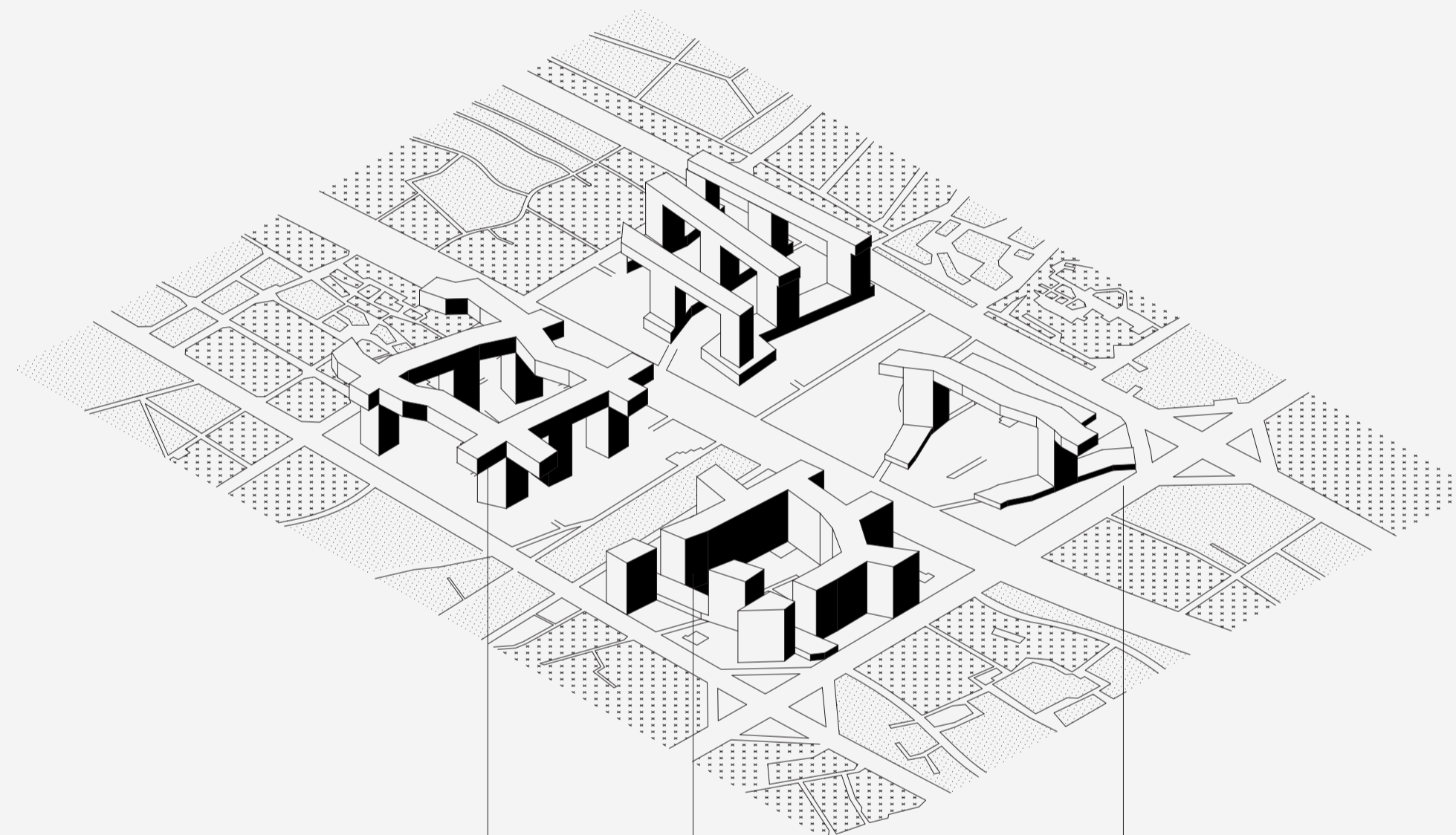
Bigness

Despite the massive size of the four blocks the intervention does not overwhelm the rich texture of the old city fabric, blending with it through large underground spaces.

Layers

The program is strictly layered. The intervention occupies less than 40% of built area, consequently declaring over 60 % of the ground plane as pure public space and landscape environment in an urban mega-underground culture. This underground condition exploits the existing infrastructure of subways, shopping and parking thereby liberating the ground of needless traffic.

Objets Trouvés

The master plan strategy is generic for all blocks but allows the evolution of a variety of built forms on the individual sites based on specificity, generating large and very different elements rising from the common ground.

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Penang Tropical City

Location/Penang, Malaysia
Year/2004
Status/Competition
Leading Tool/Objets Trouvés
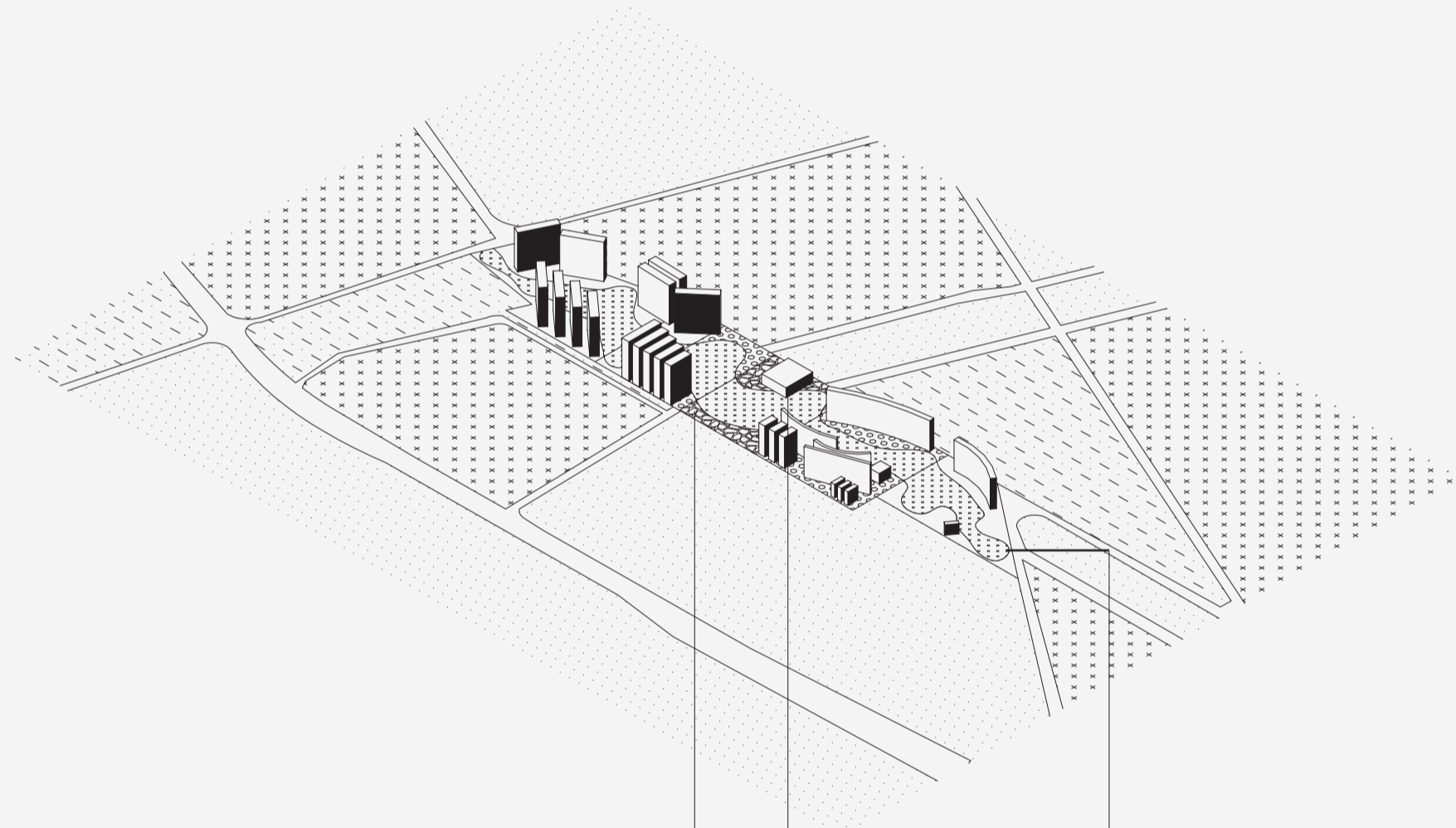

Bigness

Floating within a sort of connective tissue, the building cores allow for extreme differences and pronounced simultaneities to compete in a dynamic but balanced act between urban densities and volumetric identities. Major public and commercial functions (library, philharmonic, children's museum, multi-plex, etc) are placed at strategic locations in this soup, to give surrounding zones focal points and initiate activities and further developments.

Objets Trouvés

Each core assumes its own identity, multiple typologies alter and accommodate different types of programs and users. Each circle represents a whole, an entity, its character distinct from the others, its elements the same within.

Logroño

Location/Logroño, Spain
Year/2004
Status/Competition
Leading Tool/Connector

Bigness

The station building is positioned at the intersection of all movement. It mediates between the city level and that of the park and platform, organizing smooth transfers between all modes of transport.

Connector

The roof and walls of the station form a portico filled with services and facilities that orchestrates movement and cover, adding add a new gravity point that strengthen the position of the old center as well.

Layers

Negative effects of bringing underground the railway are mitigated by creating a sunken park aligned to the tracks and thus creating a unique and recognizable identity for the Logroño station. On the other hand, the underground railway allow connecting the divided city.

Gent Oude Dokken

Location/Ghent, Belgium
Year/2004
Status/Competition
Leading Tool/Bands
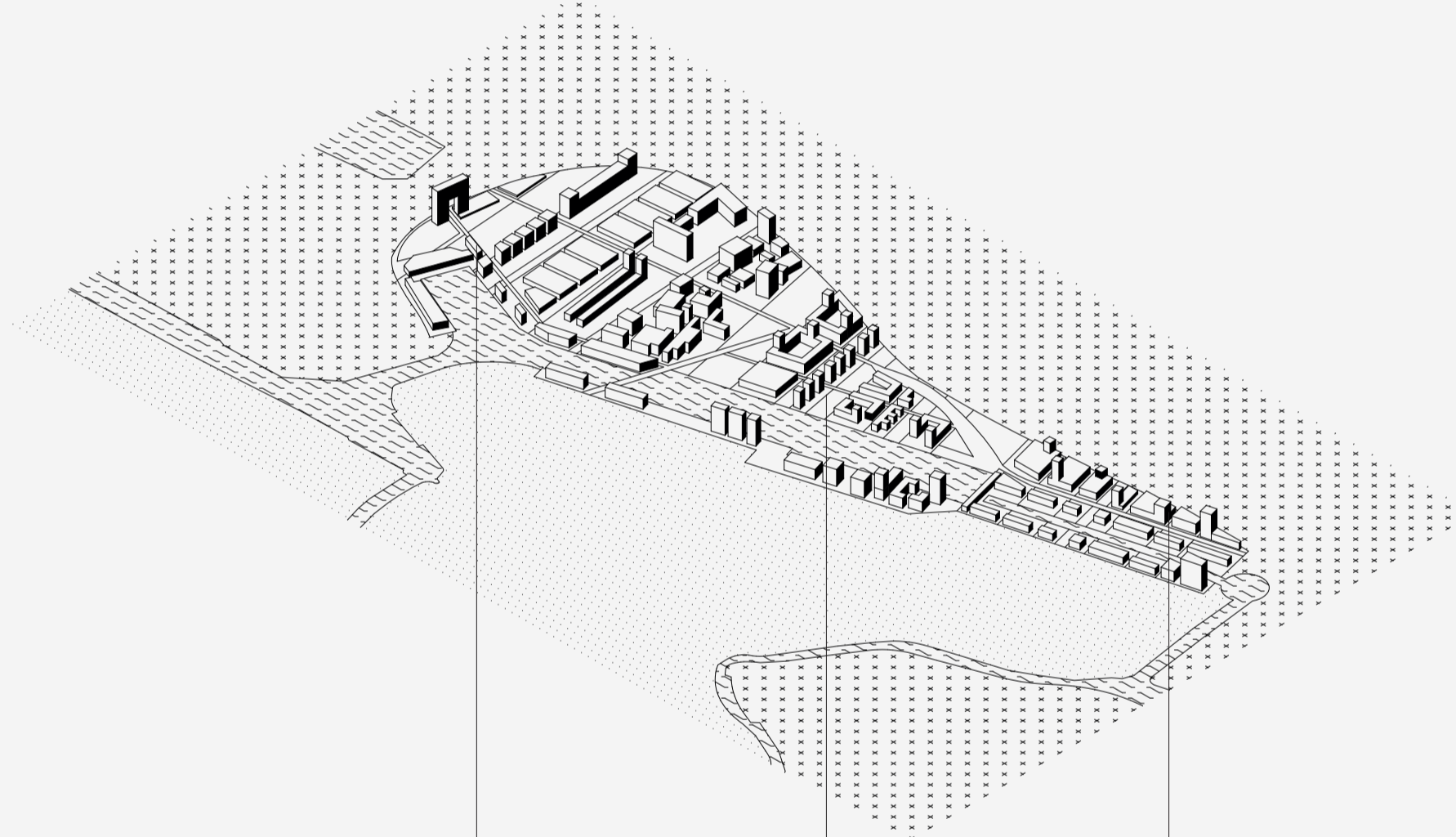
Connector

As the waterfront is the key amenity to the site, it is important to establish the first phase of the plan and the position towards the waterfront thus creating a strong connection inclusive of the entire area without creating a backside condition.

Bands

The banding varied between open space, built space and canals. By developing some bands as a park, the perspectives remain open. The variation of the width of the bands creates a very simple but strong means to give a rich spectrum of possibilities without causing problems of flexibility. Each band could have different atmospheric qualities through the use of materials and building typologies.

Objets Trouvés

The strategy of layering of the bands is based on the existing parcel ensuring the plan works with the site, not against it and in this way, the site will have from the beginning a "historical center". The high chimneys are specifically chosen as new landmarks to be maintained, while new objects differing from the urban fabric define each band.

Almere Masterplan

Location/Almere, Netherlands
Year/2005
Status/Completed
Leading Tool/Objets Trouvés
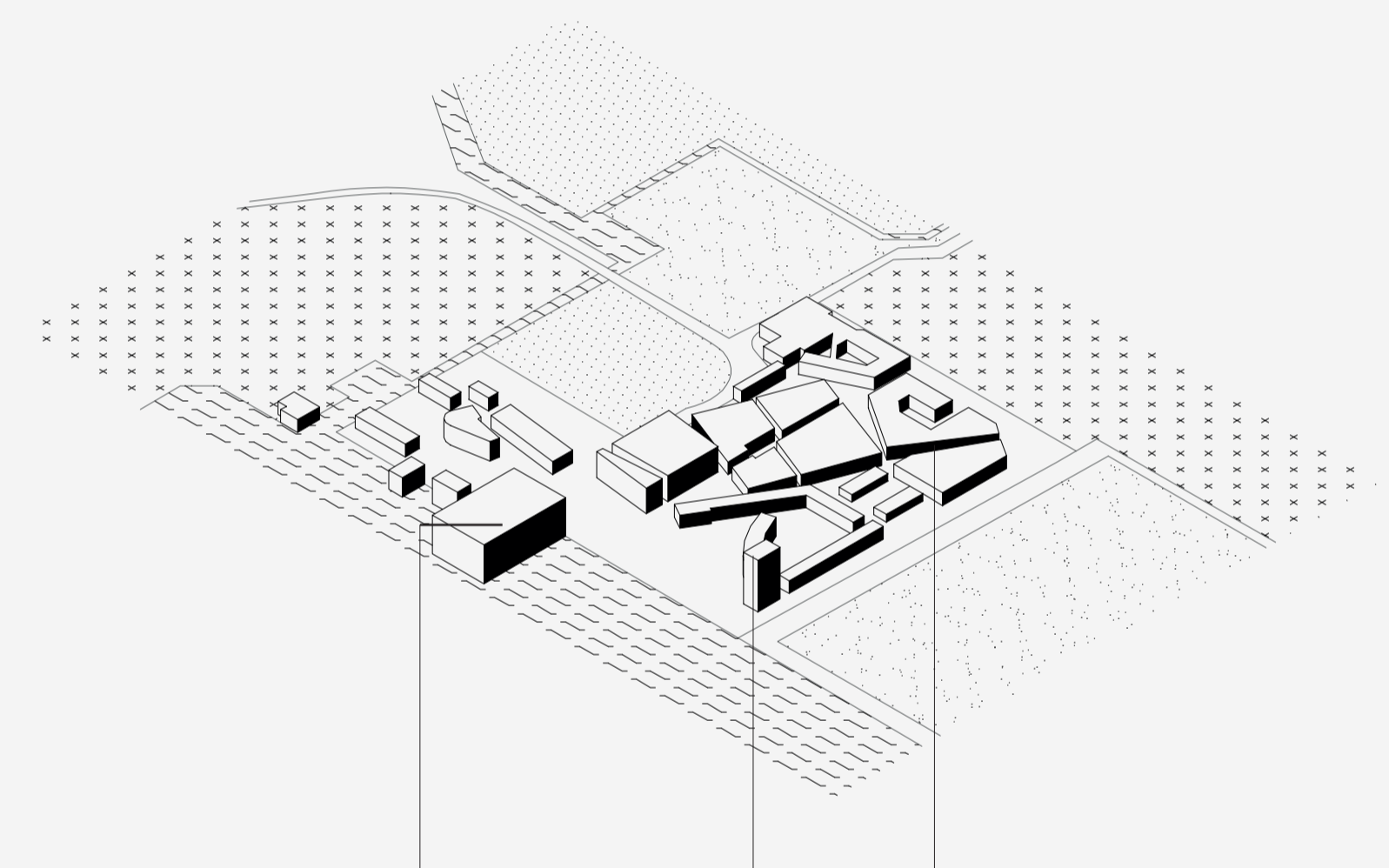
Bigness

The fast increase in population has led to the need to provide the city center with the basis for a number of essential facilities, such as a cultural nucleus (museum, library, theatre) and large scale retail facilities.

Connector

The density of the new shopping complex means that the boulevard can be freed from the planned commercial program, leaving space for cultural and leisure programs in a new connecting element.

Objets Trouvés

One of the goals of the project is to create a new and recognizable form contrasting with the existing, low density elements (specialist retailers, small-scale offices) which make Almere what it is today.

Bovisa Masterplan

Location/Milan, Italy
Year/2007
Status/Commissioned Study
Leading Tool/Objets Trouvés
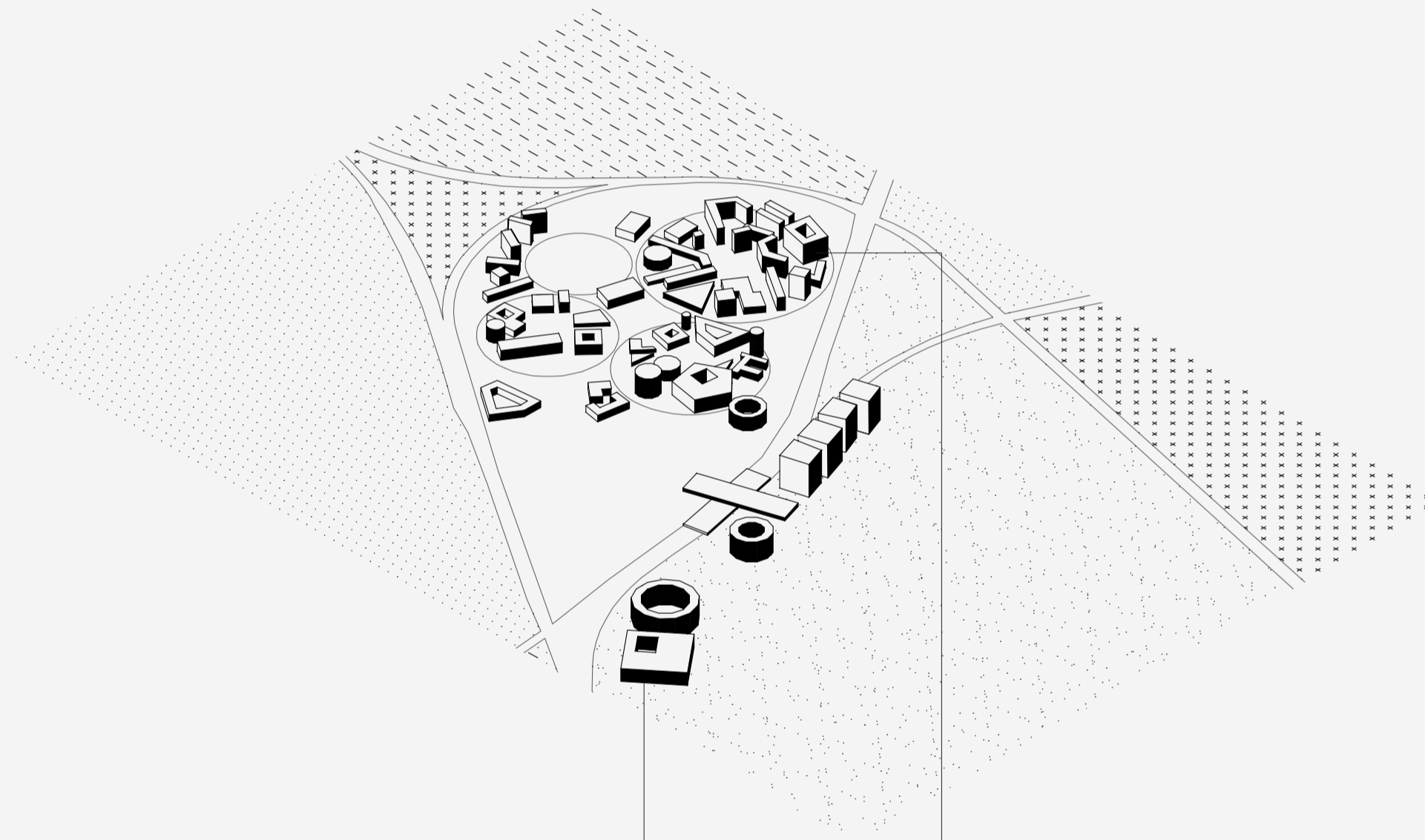
Bigness

A series of programmatic stones independent of the context are laid on the surface, helping defining a clear programmatic hierarchy

Objets Trouvés

The vast program is arranged according to clusters of various shapes objects scattered on the surface, allowing diversity to be maintained and encouraging interaction

La Défense Masterplan

Location/Paris, France
Year/2008
Status/Competition
Leading Tool/Connector
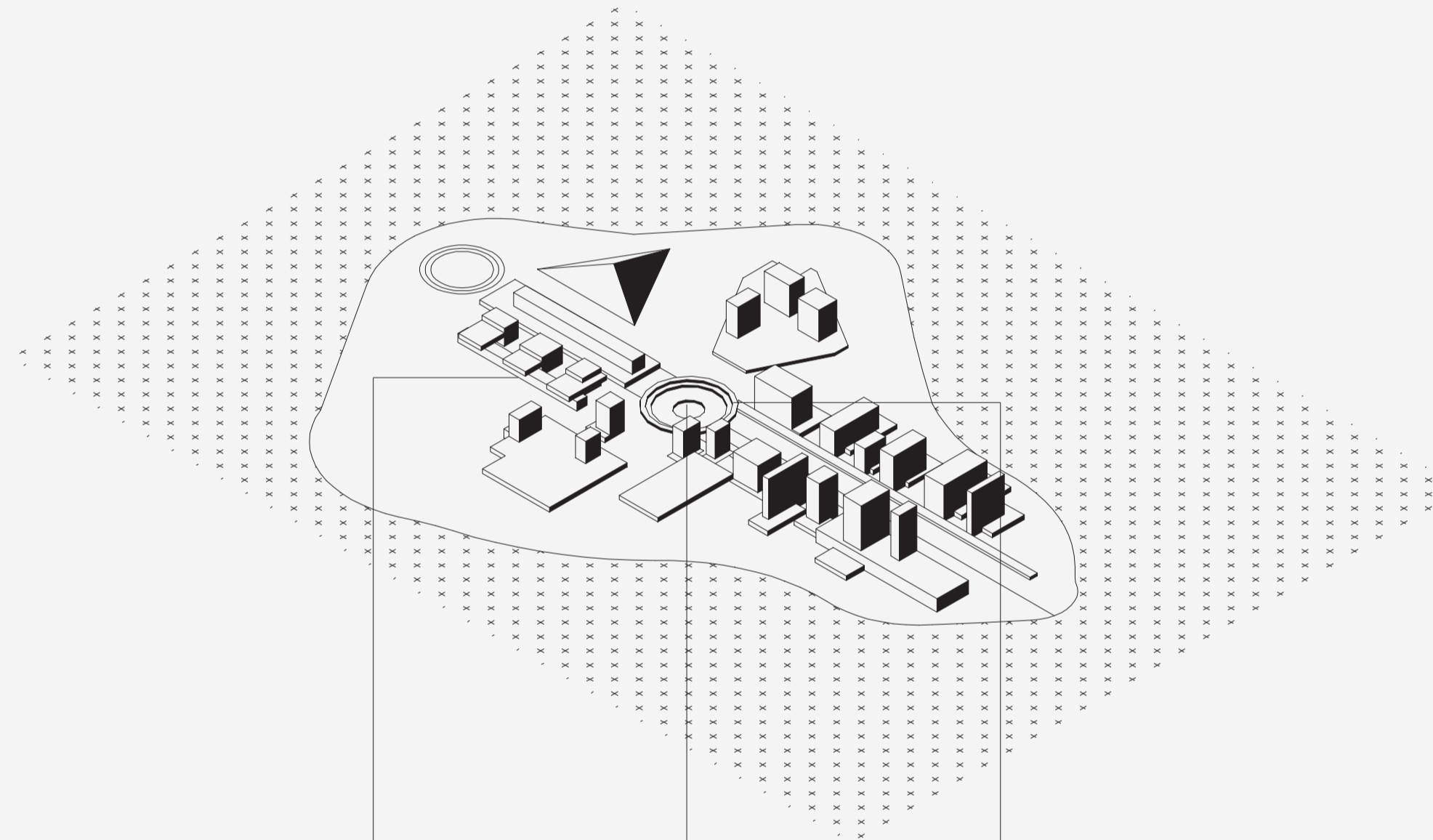
Bigness

The new towers planned on the site leave no doubt that the district possesses the architectural resources to renew itself.

Connector

The deck, a volume rather than a mere surface, becomes a linking body that cements everything together; like an airport terminal, it continues to contain the transportation tracks and platforms, including the proposed internal shuttle that extends to Les Groues, the neighboring district

Layers

The deck's layers becomes a lively and welcoming underworld. Filled with daylight, shops and lobbies converge towards the new central stop. Improved signage makes it more convenient for the user to find their way. The awakening of the deck's unconscious provides a heart for La Défense

Rue de la Loi

Location/Brussels, Belgium
Year/2009
Status/Competition
Leading Tool/Bigness
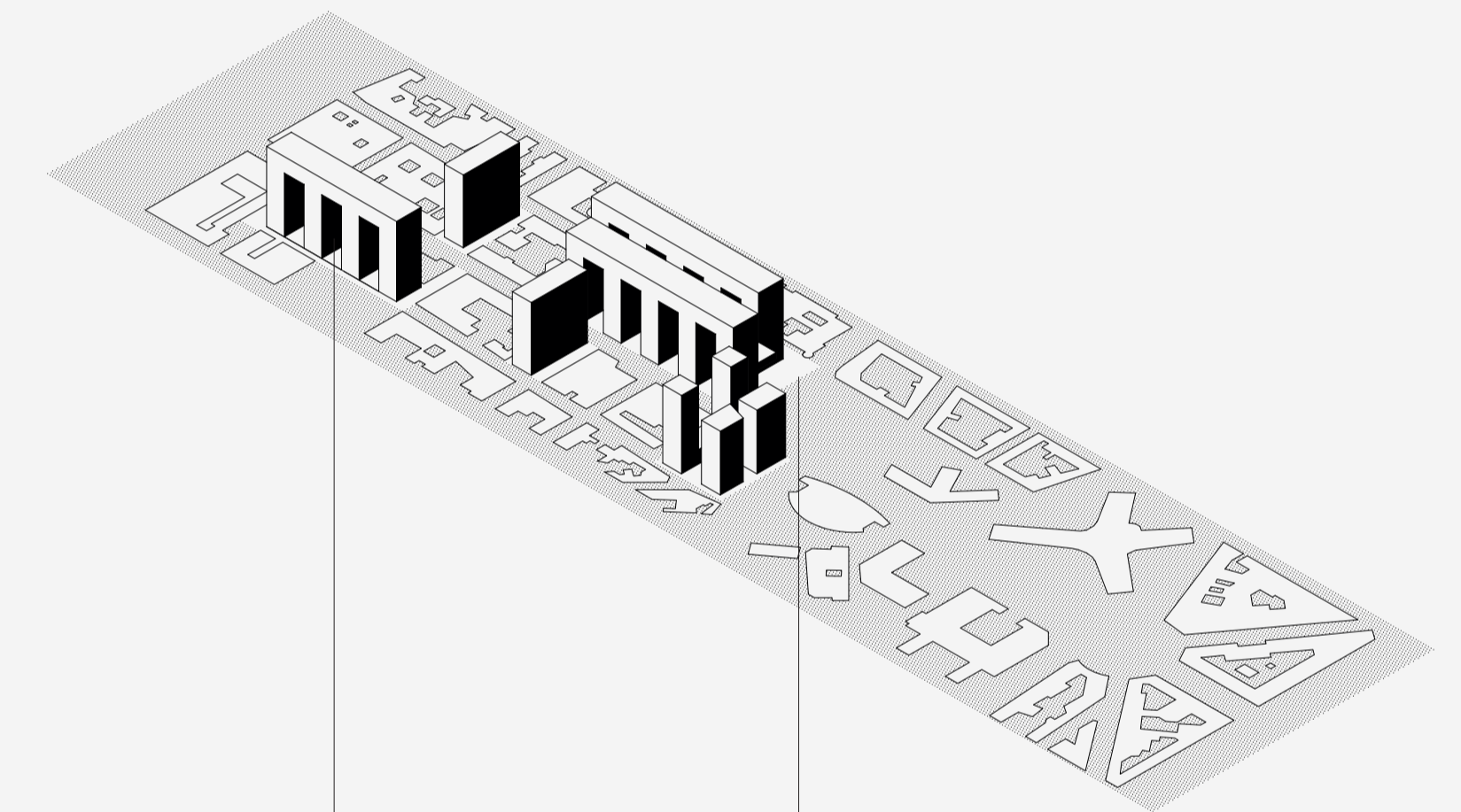

Tabula Rasa

On one hand, the project represents a prototype of retroactive planning based on the brute power of the Tabula Rasa; on the other, it accepts the givens of context to avoid the sterility of a new beginning

Bigness

By scaling the ancient European typology of the "portico", the classical emblem of the "public", a new shape is introduced, forming a screen of shifted footprints that introduces in the claustrophobic street wall of the Rue de la Loi a lateral depth of openings that defines a linear political space, if not an agora.

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Zollverein Masterplan

Location/Essen, Germany
Year/2010
Status/Completed
Leading Tool/Borders Filling
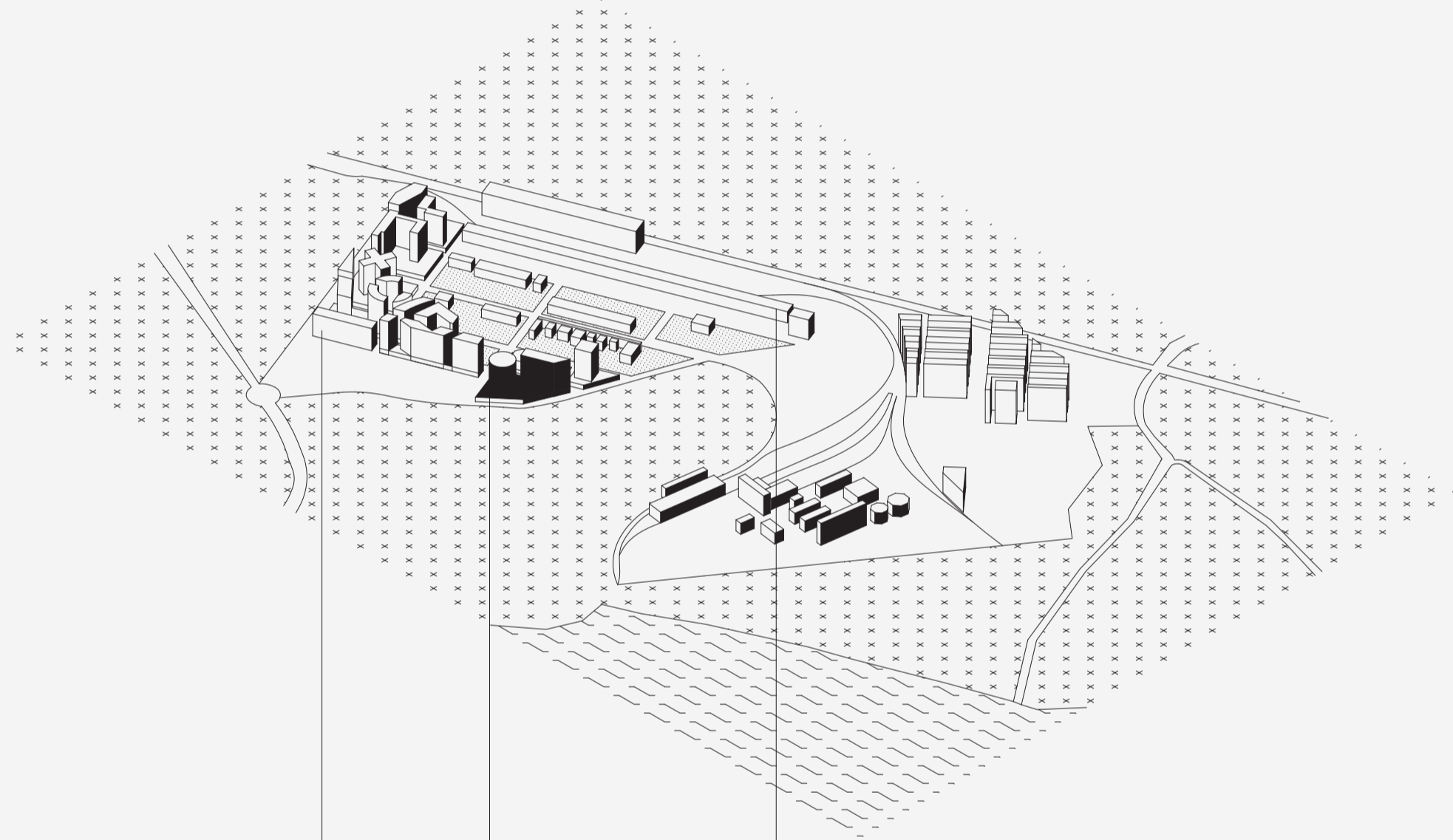
Bigness

The programming of the new large buildings and re-programming of the existing monumental structures aim to contain many functions, most of which will be related to art and culture.

Connector

The main rail tracks inside the site are maintained as public promenade, in order to connect the main buildings of the park.

Borders Filling

The masterplan consists of a band around the historic site, a contemporary version of the walled city. The allocation of new programs on the periphery allows the old buildings to maintain their grandeur and impact on the visitor.

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Global Financial Centre On The Bund

Location/Shanghai, China
Year/2011
Status/Competition
Leading Tool/Connector
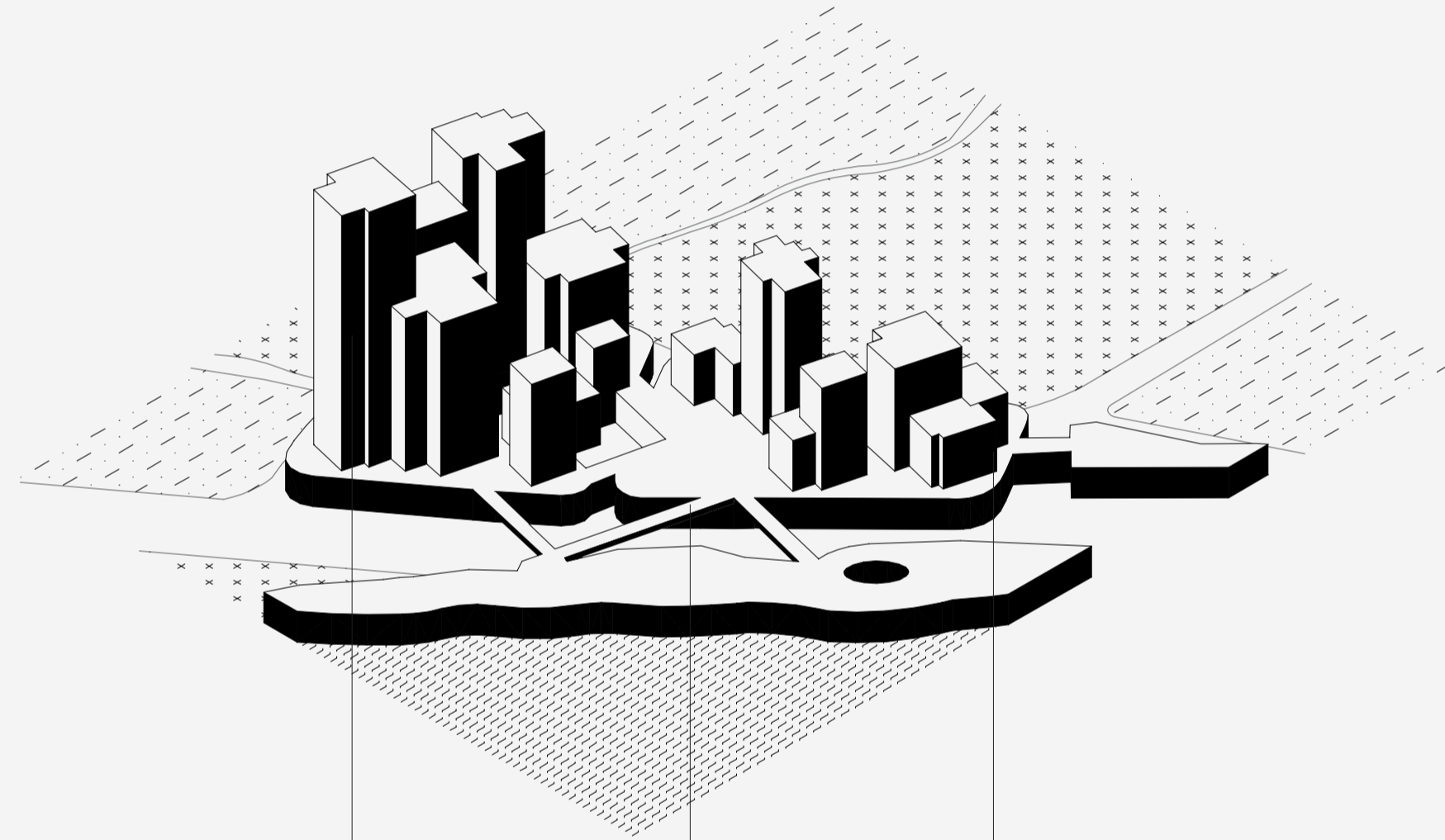
Connector

Different programmatic area distributed on the surface are linked by a multi-layer promenade, enabling connection between waterfront, towers and existing city: 'hard' structures and "soft" elements, natural forms and man-made constructions.

Programmatic Grid

Aiming to blend the differences between the various typologies surrounding the site, the new grid defines different scales for each footprint in order to allow different programs to inhabit the same complex and follow the logic of the site, with a smaller scale facing the old town

Borders Filling

While the central plaza is left void in order to create a gather point, the area is enclosed by large scale towers: programmatic porosity is achieved through footprints of different scales aiming to connect the area to the surrounding old city

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Kollage City__A tools collection for urban programs

Politecnico di Milano
School of Architecture and Society
Master of Architecture
Students/Giacomo Geroldi__Endri Metaj
Thesis advisor/Alessandro Rocca
A.Y. 2014-15

Bordeaux Euratlantique

Location/Bordeaux, France
Year/2011
Status/Competition
Leading Tool/Bigness
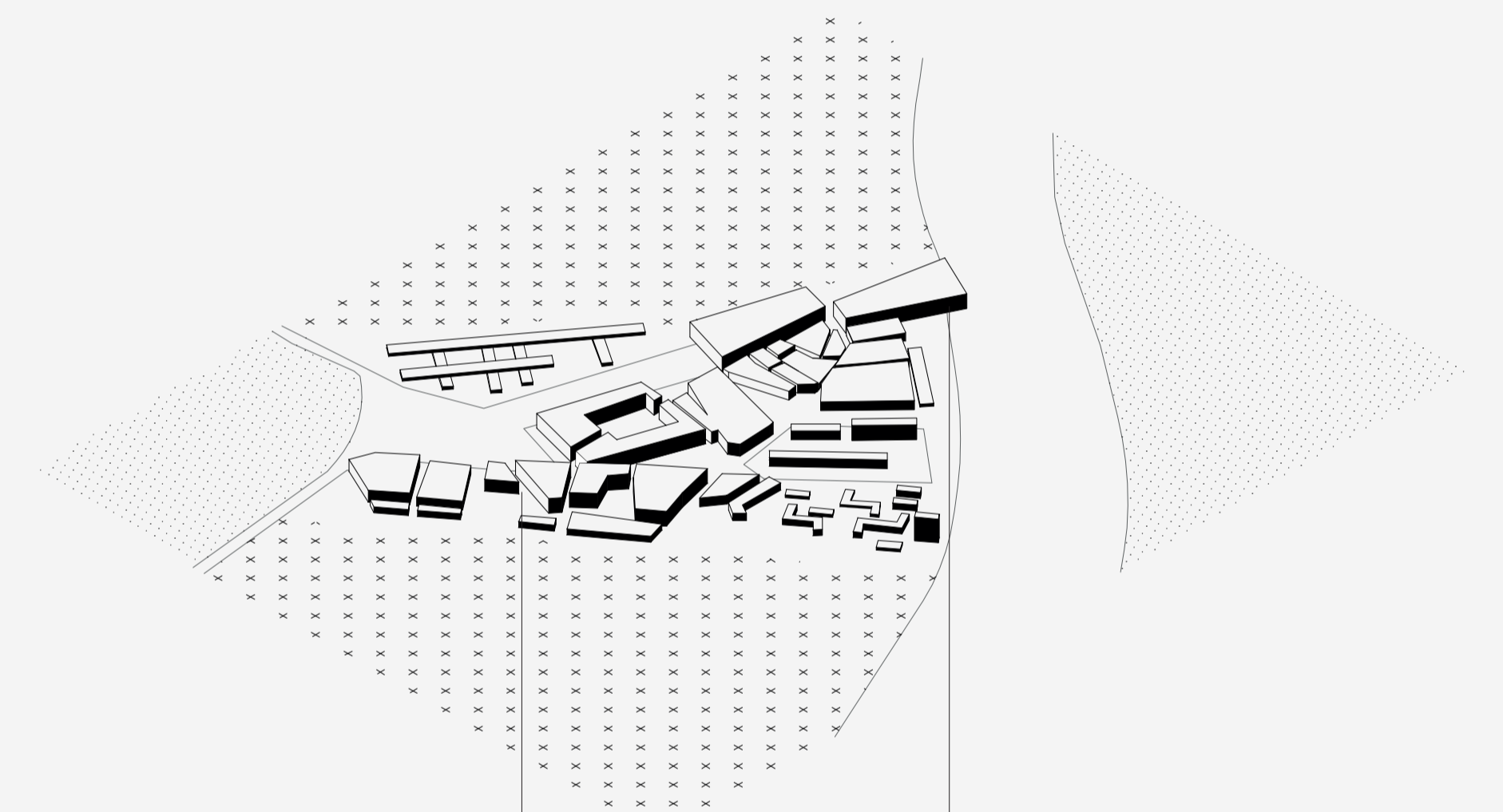
Bands

Open spaces - or voids - on the Euratlantique site are potentially more important than the impulse to add new buildings. These voids are arranged in bands distributed over the site in order to become animated public spaces that form connections within the area and to the surrounding city.

Bigness

In response to the request for a 'signal' or 'beacon' to mark the emergence of the Saint Jean Belcier area - and without resorting the a clichés of the tower or high-rise building - the new convention center is located over the tracks of the new TGV rail link as it crosses the Garonne.

Kollage City_A tools collection for urban programs

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Gold Coast Cultural Precinct

Location/Gold Coast, Australia
Year/2013
Status/Competition
Leading Tool/Bands
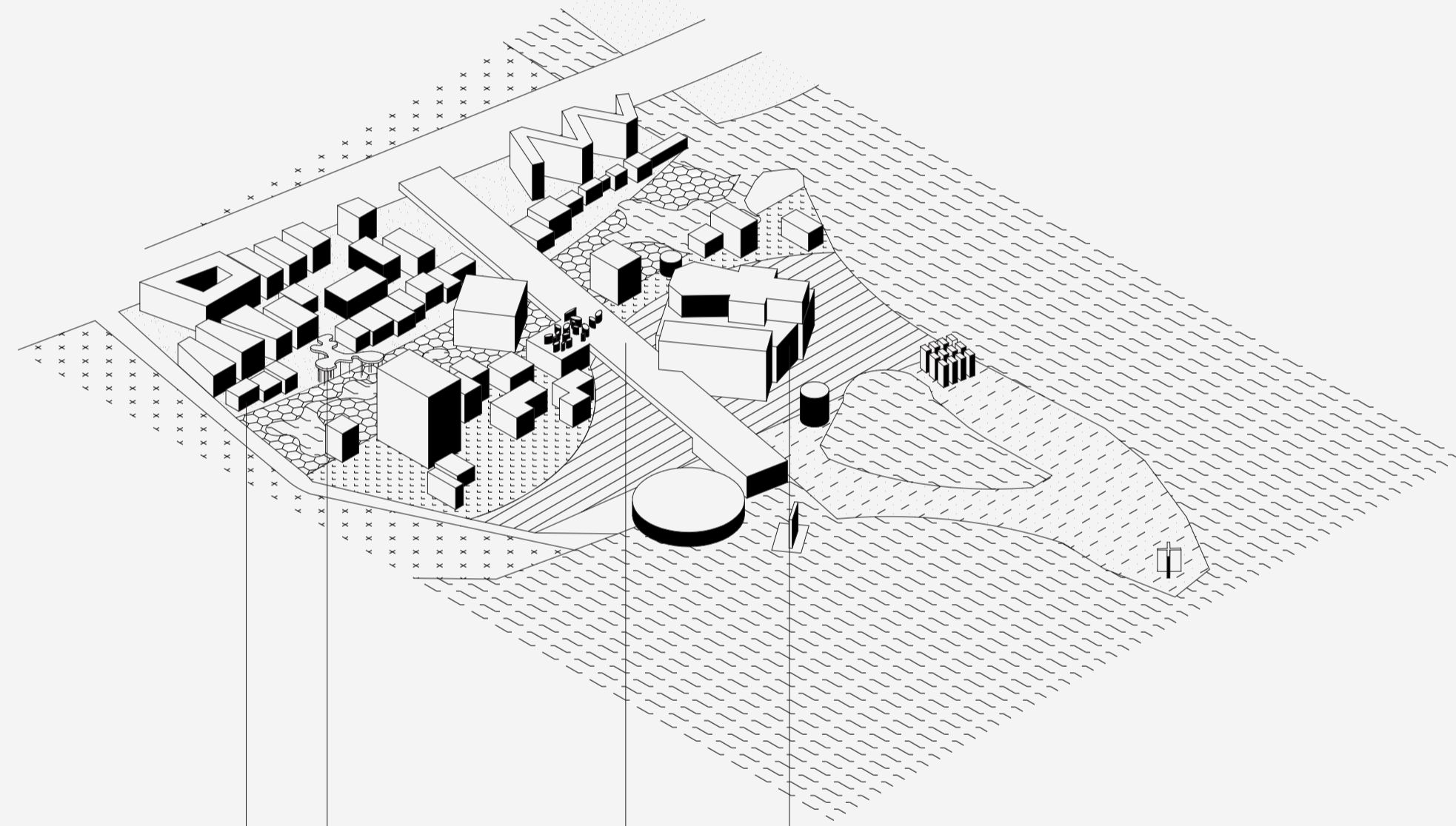
Objets Trouvés

The New Arts Museum is organized in a diffused configuration to enhance the experience of viewing art by injecting discovery.

Bigness

The Living Arts Centre rewraps the existing civic theater with a new skin to create new public and functional spaces, such as foyers, pre-function spaces and large public terraces with a view of the city's skyline.

Bands

The proposal pays homage to the pattern of the city and is planned as a series of linear bands of built form, open space, cultural facilities, landscape and water edge, representative of the city

Connector

A key architectural device, the connector, is a public platform that punctuates the proposal, linking the entrance, cultural facilities, public spaces and water-front. It acts as a catalyst of circulation and activity on the site. It enables identity, performance, gathering, utility, connection and protection.

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A.Y. 2014-15

Quartier Joliot Curie Masterplan

Location/Paris, France
Year/2012
Status/Design Development
Leading Tool/Programmatic Grid
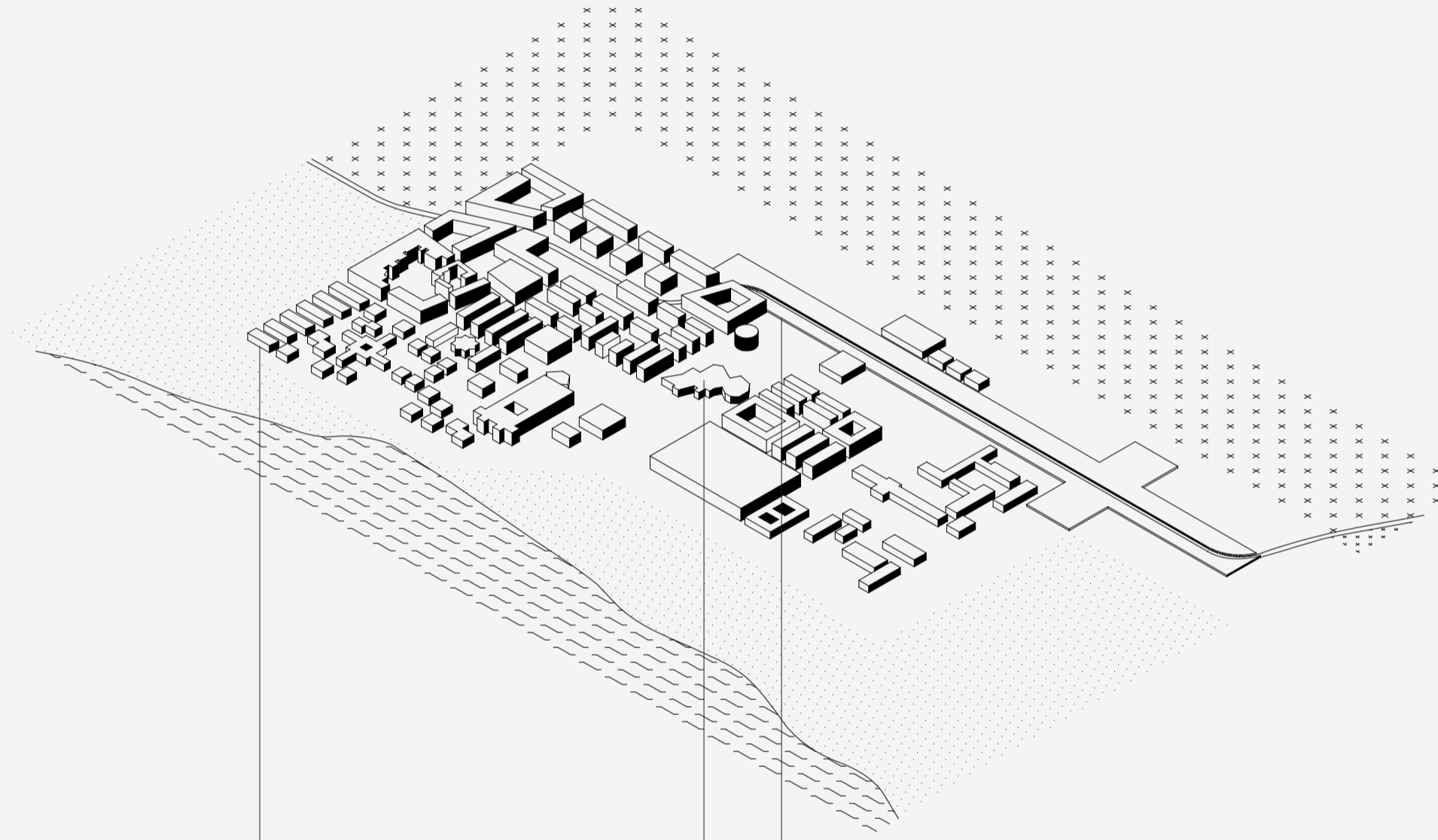
Programmatic Grid

Developed from a grid, the master-plan is designed as a continuity of the LabCity, a new form of a rigorous and flexible urbanism, capable of combining varied programs and integrating existing buildings into an efficient, unified scheme. Public spaces integrated with existing natural components act to both articulate the diverse functions and provide space for interactions between different users.

Connector

Public spaces integrated within a linear configuration act to both articulate the diverse functions and provide space for interactions between different users.

Objets Trouvés

A series of elements placed out of the programmatic grid defines the character of the academic campus.

Kollage City_A tools collection for urban programs

Politecnico di Milano
School of Architecture and Society
Master of Architecture
Students/Giacomo Geroldi_Endri Metaj
Thesis advisor/Alessandro Rocca
A.Y. 2014-15

Prince Bay

Location/Shenzen, China
Year/2014
Status/Commissioned Study
Leading Tool/Objets Trouvés
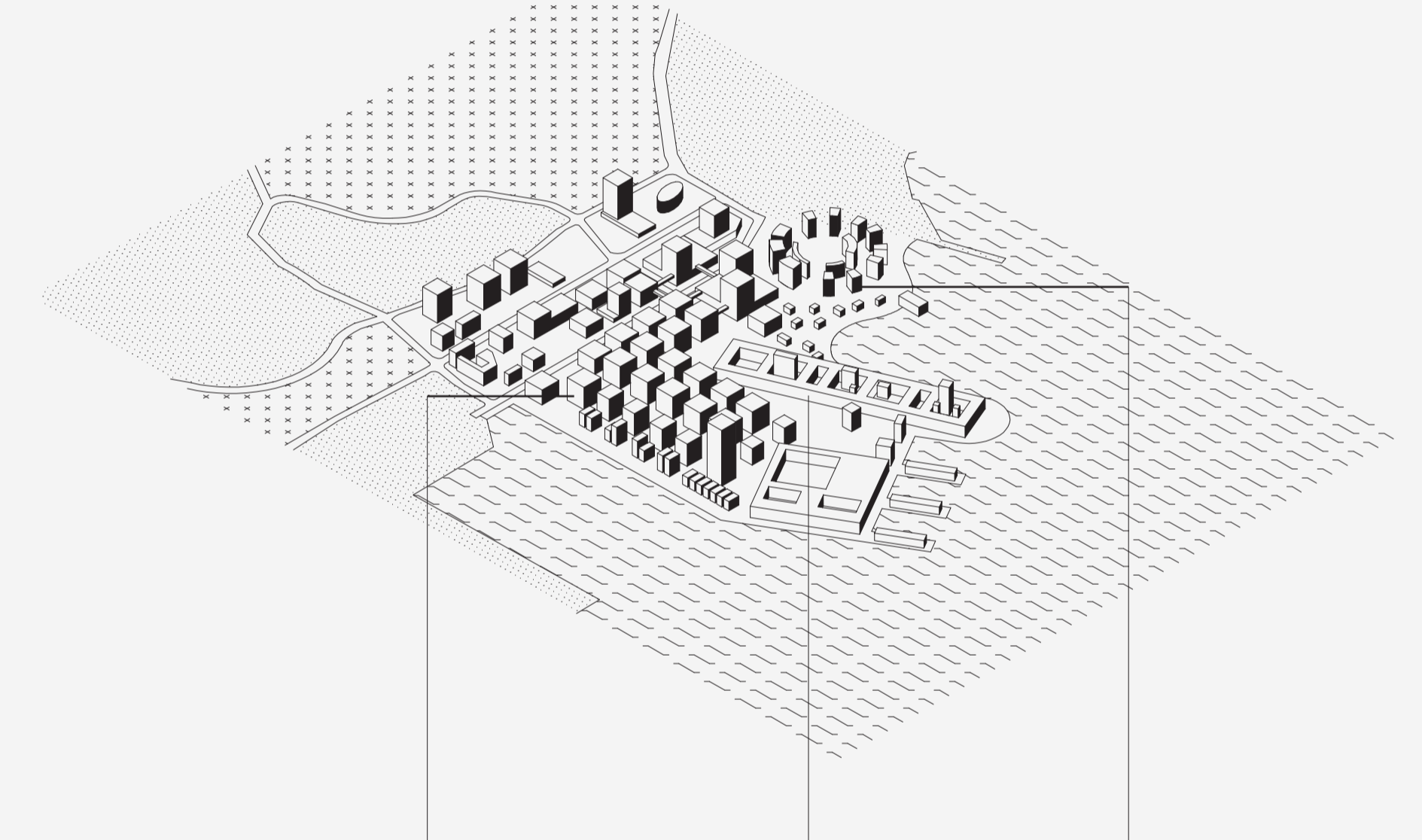
Programmatic Grid

Within the uniform grid established by the road network, zones of public green space occur within city blocks and at major intersections. The regular grid layout provides accessi-bility and flexible uses, while enhan-cing navigation within the site.

Connector

The Commercial Pocket is defined as a low rise rectilinear volume broken down into three courtyard rings. It provides, apart from leasable retail space, indoor and outdoor recrea-tional spaces at different levels and connections to the harbor and the city. Porous at ground level, it allows uninterrupted access from the surroun-ding city blocks.

Objets Trouvés

The masterplan introduces three major urban gestures – the Maritime Pocket, the Commercial Pocket, and the Community Pocket –, which take geometric shapes in response to the existing coastline. Each of these pockets has distinct programing and mediates between the waterfront and the landscape city

Then we made a strict inventory of programmatic tools

Tools Collection
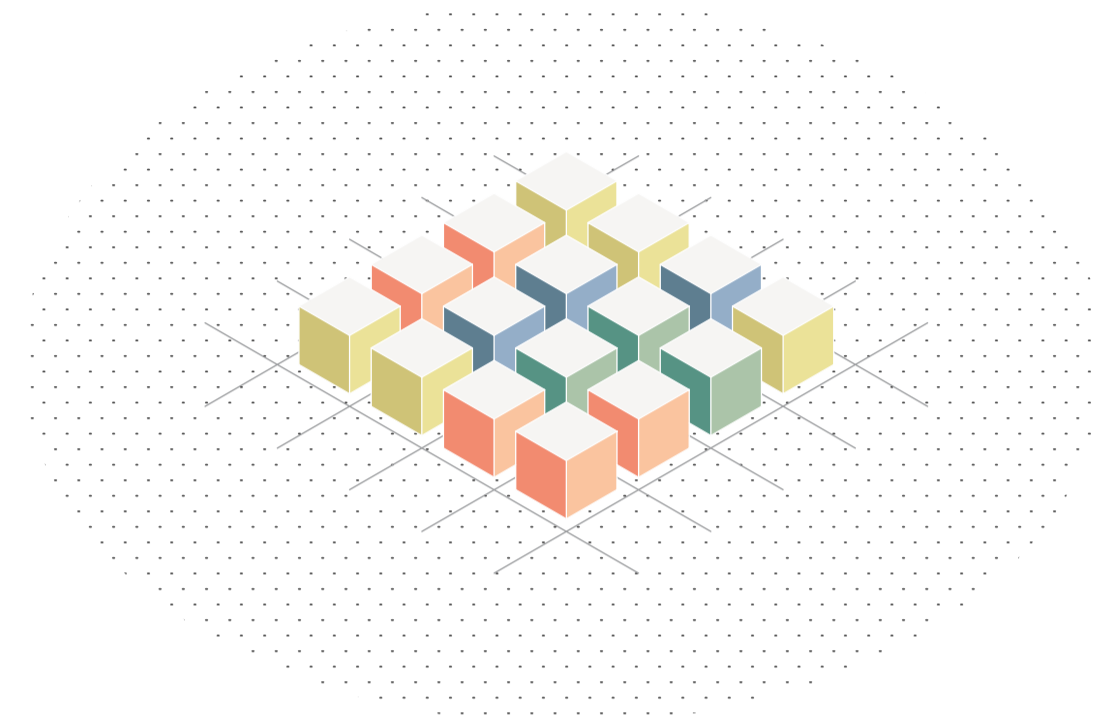
### 01. Programmatic Grid

[prəʊɡrəˈmætɪk ɡrɪd]

a new subdivision of the metropolitan territory into controlled parts, which creates a system of islands and archipelagos. The more the islands are different and host dissimilar values, the more the archipelago as a system is reinforced. The Programmatic Grid differs from the previous organisation of the urban tissue and can engulf it.

02. Connector

[kəˈnek.tər]
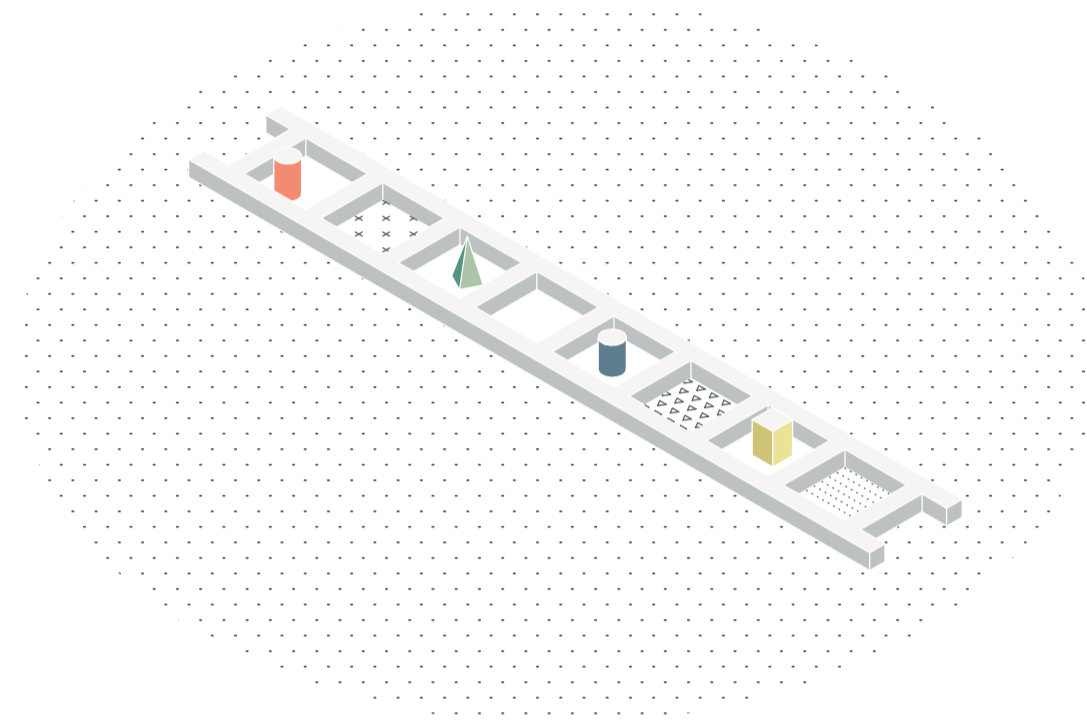
an urban strategy deeply influenced by the presence of a main path that organises the entire program. As a generating element, it does not necessarily conform its shape and features to the existing urban tissue.
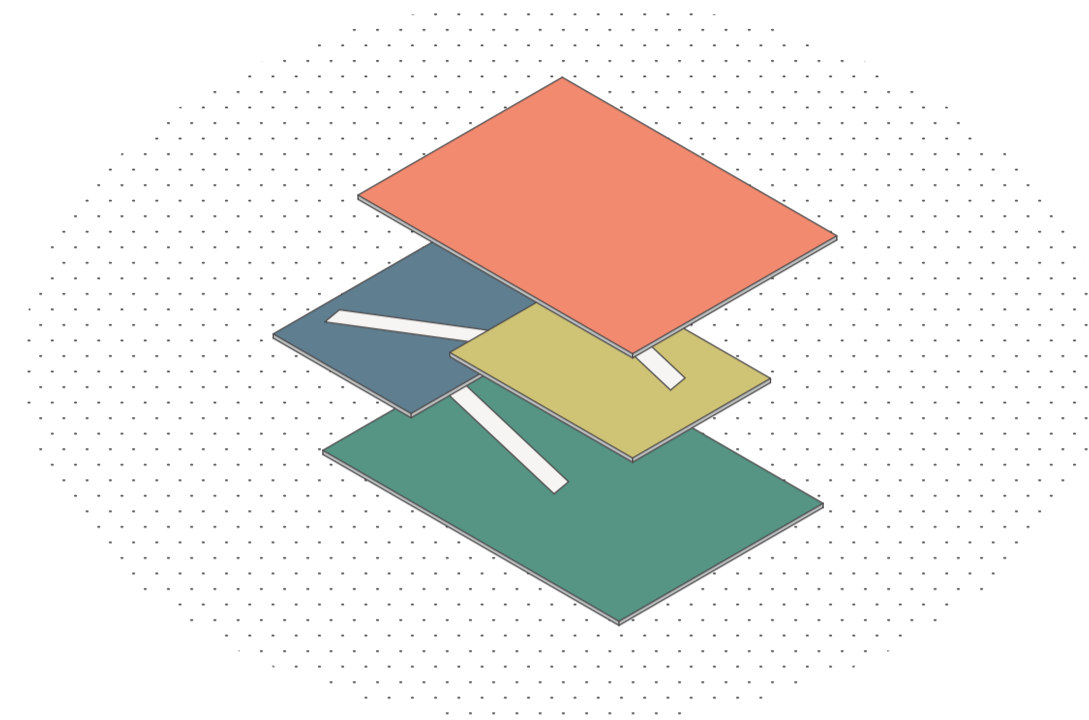
03. Layers

[ˈleɪ.ərz]

real or strategic composing method. It defines a metropolitan territory by levels and often by their super-imposition. This method confers a bitter dynamicity to the program thanks to the spatial conflicts among the different levels.

04. Bands

[bændz]

unidimensional programmatic strips. They define entire spatial slices of the urban territory. The main feature is the individuation of a schematic and clear sectorial organisation.

05. Objets Trouves

[ɒbʒɛ tʁuve]

Chaotic objects injected on a metropolitan area that regulate and initiate a brand new organisation of spatial relations. The objects usually do not follow a pre-determined schematic regulation of the space. They regulate themselves and influence the surrounding urbanity.
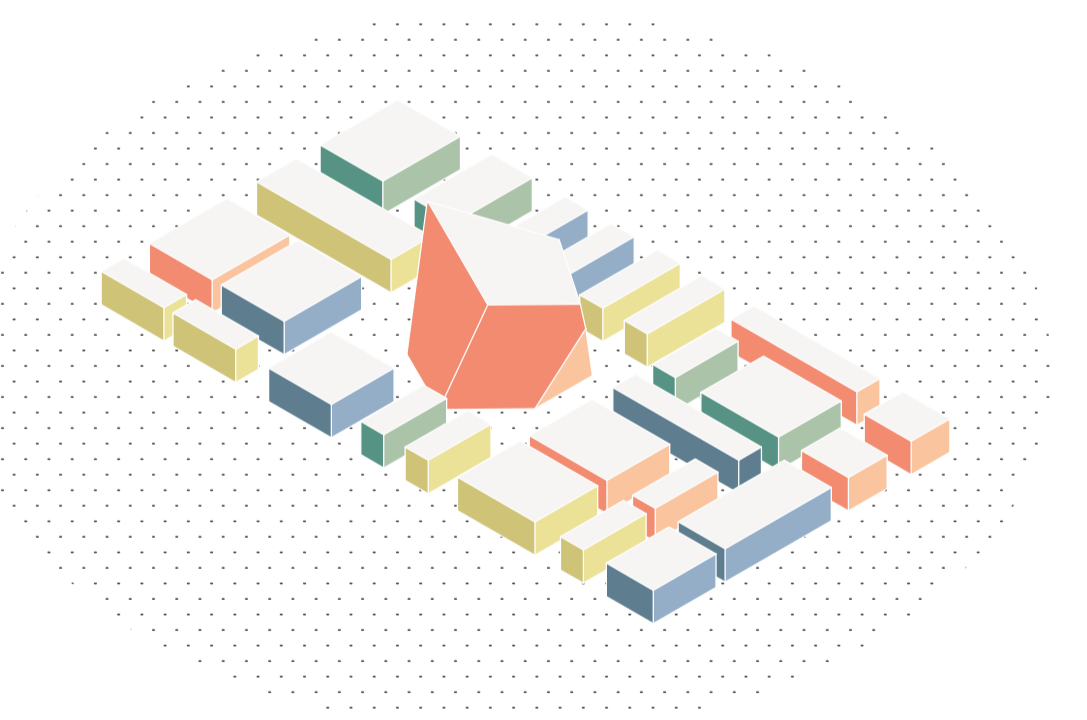
06. Bigness

[ˈbɪɡ. nəs]

tendency of architecture. The limit where architecture becomes more than simple spatial design. Bigness investigates the complexity of architecture and promotes a richer programmation. Bigness is no longer part of the urban tissue. It coexists with it rather than exist within it. A programming method allows to create spatial elements that react with each other. New events. A free-form architecture.

07. Borders Filling

[bɔːˈdərz ˈfɪl.ɪŋ]

to saturate the limits of an area and to leave free space in the middle of it. This filling process stresses the boundaries of a specific urban zone and meanwhile sets the interior extent as a programmatic lava where freedom of act is the main feature.
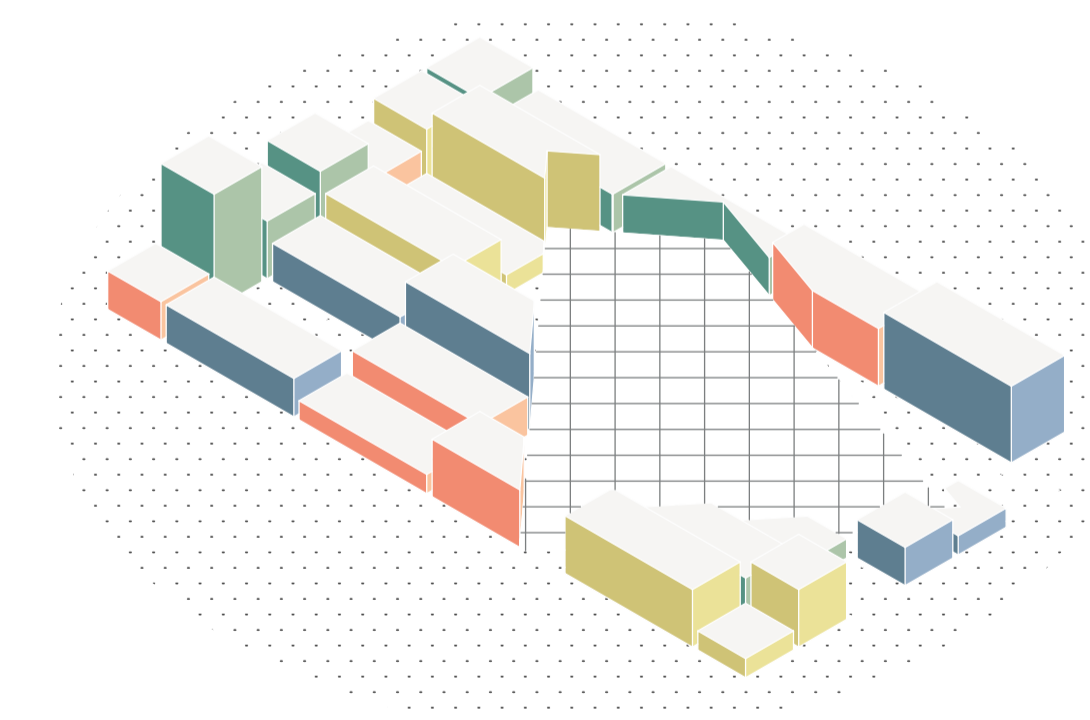
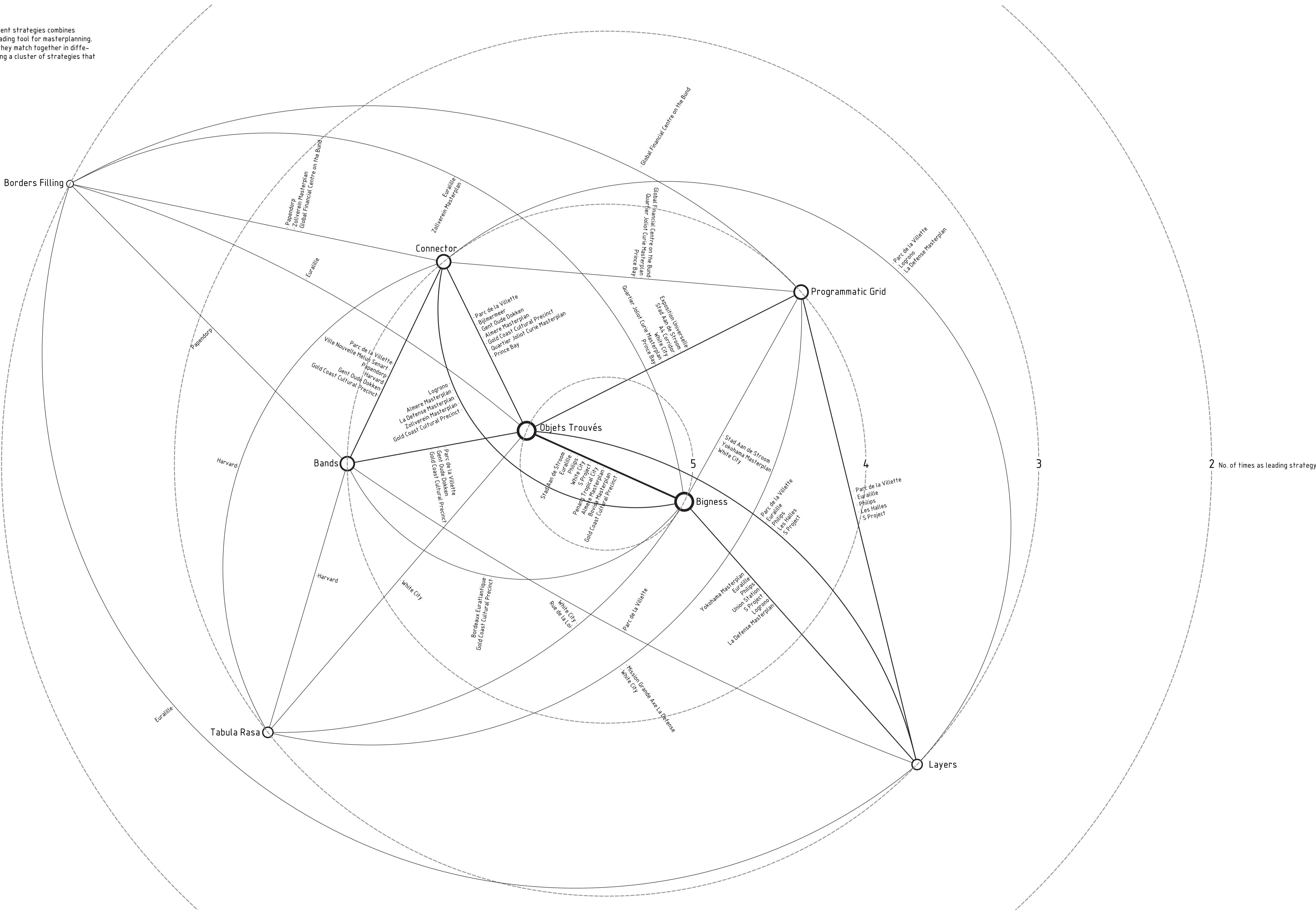### 08. Tabula Rasa

[ˌtabjʊlə ˈrɑːzə]

to erase all the pre-existing urban element in order to free surface for the new program. This procedure re-thinks and proposes a condition of new beginning for the considered metropolitan territory and its contiguous urban places.

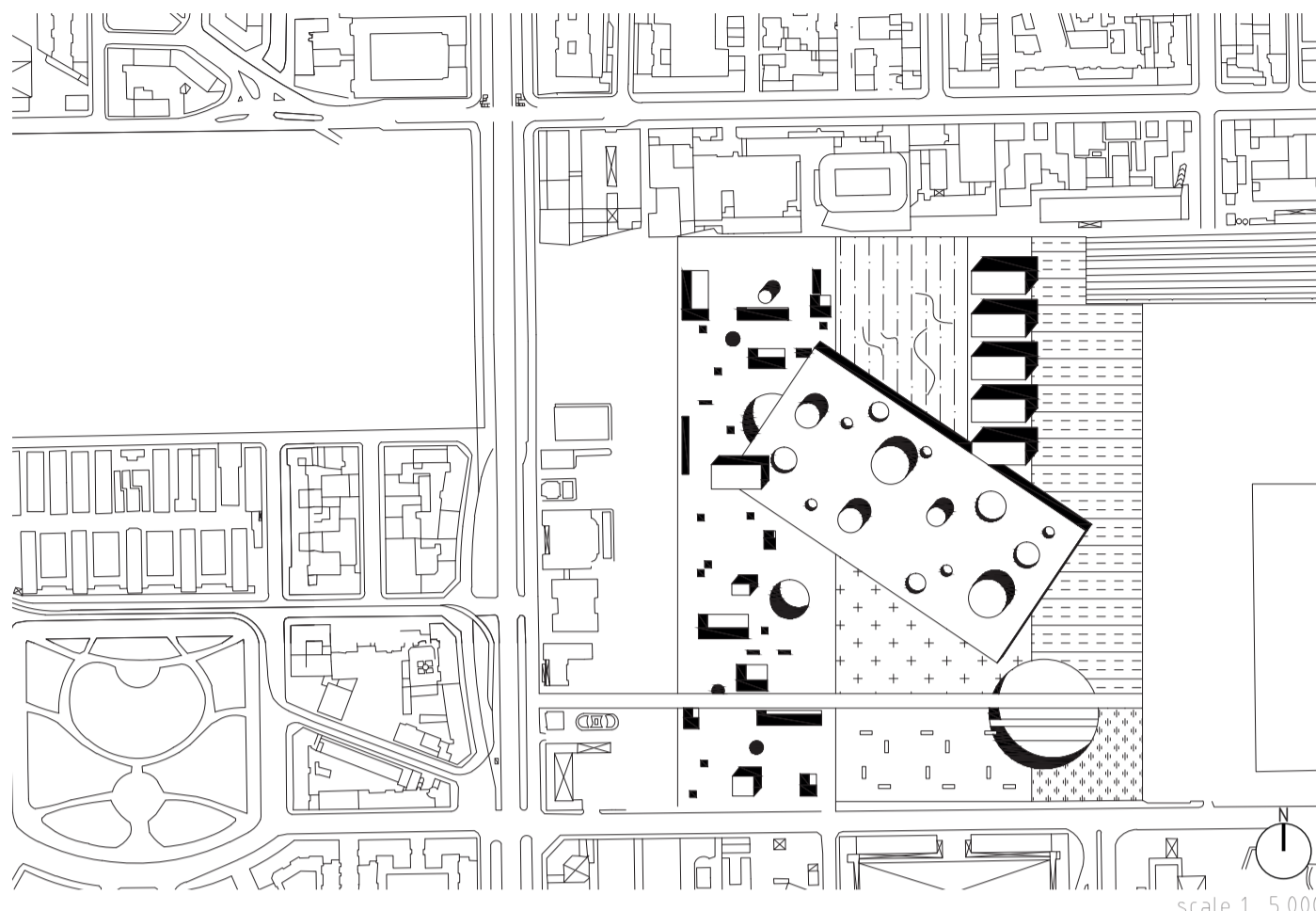# Programmatic hierarchy is achieved through clustering.

_Cluster_Diagram_02

This diagram shows how the different strategies combines according to their frequency as leading tool for masterplanning. Different tools create groups as they match together in different projects, eventually generating a cluster of strategies that can be applied to other proposal.
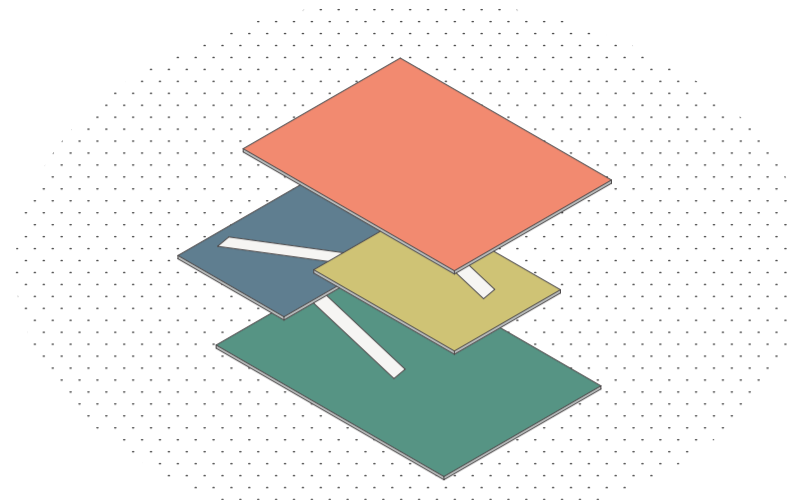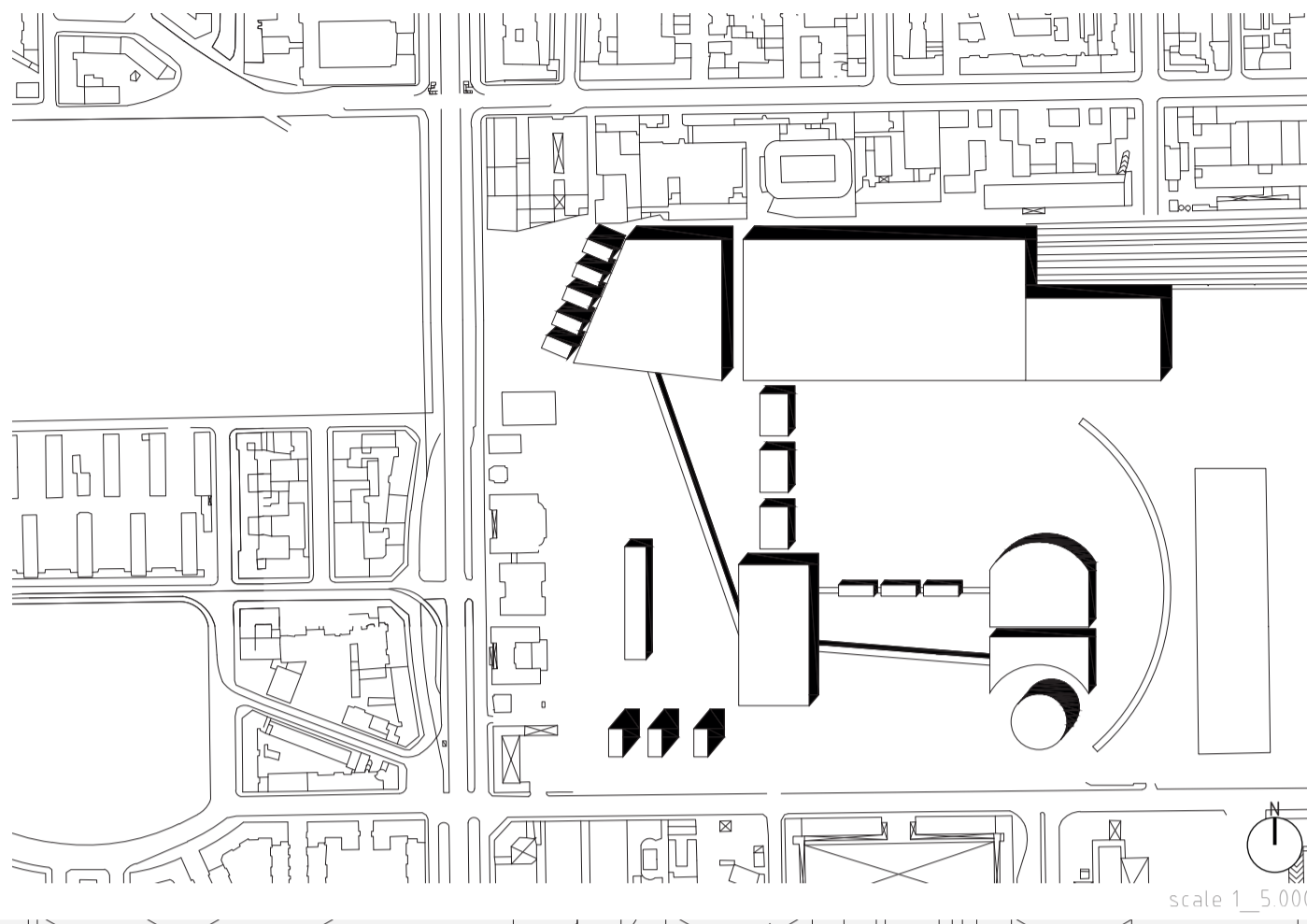

Borders Filling

Connector

Programmatic Grid

Papendorp
Zollverein Masterplan
Global Financial Centre on the Bund

Euralille

Global Financial Centre on the Bund

Zollverein Masterplan

Global Financial Centre on the Bund
Quartier Joliot Curie Masterplan
Prince Bay

Parc de la Villette
Logrono
La Défense Masterplan

Euralille

Papendorp

Parc de la Villette
Bijlmermeer
Gent Oude Dokken
Almere Masterplan
Gold Coast Cultural Precinct
Quartier Joliot Curie Masterplan
Prince Bay

Exposition Universelle
Stad Aan de Stroom
A4 corridor
White City
Masterplan
Prince Bay

Parc de la Villette
Ville Nouvelle Melun Senart
Papendorp
Harvard
Gent Oude Dokken
Gold Coast Cultural Precinct

Logrono
Almere Masterplan
La Défense Masterplan
Zollverein Masterplan
Gold Coast Cultural Precinct

Quartier Joliot Curie Masterplan

Objets Trouvés

Stad Aan de Stroom
Yokohama Masterplan
White City

Harvard

Bands

Parc de la Villette
Gent Oude Dokken
Gold Coast Cultural Precinct

Stad Aan de Stroom
Euralille
Philips
White City
S Project
Penang Tropical City
Almere Masterplan
Bovisa Masterplan
Gold Coast Cultural Precinct

5

4

3

2 No. of times as leading strategy

Parc de la Villette
Euralille
Philips
Les Halles
S Project

Parc de la Villette
Euralille
Philips
Les Halles
S Project

Bigness

Harvard

White City

Bordeaux Euratlantique
Gold Coast Cultural Precinct

White City
Rue de la Loi

Parc de la Villette

Yokohama Masterplan
Euralille
Philips
Union Station
S Project
Logrono
La Défense Masterplan

Euralille

Tabula Rasa

Mission Grande Axe La Defense
White City

Layers

Kollage City_A tools collection for urban programs

Politecnico di Milano
School of Architecture and Society
Master of Architecture
Student/Giacomo Geraldi_Endri Mataj
Thesis advisor/Alessandro Rocca
A.Y. 2012-13

Isometric view/scale 1_2.000

Slaughterhouse Lasagna
_Masterplan_Ex Macello_01

The city is the relationship of constantly changing superimposed flows

Minimal amount of definition to manipulate activities

Single buildings replaced by programmatic tapestry

scale 1_5.000

03. Layers

Real or strategic composing method. It defines a metropolitan terri-tory by levels and often by their super-imposition. This method confers a better dynamicity to the program thanks to the spatial conflicts among the different levels

04. Bands

Unidimensional programmatic strips. They define entire spatial slices of the urban territory. The main fea-ture is the individuation of a schematic and clear sectorial organisation
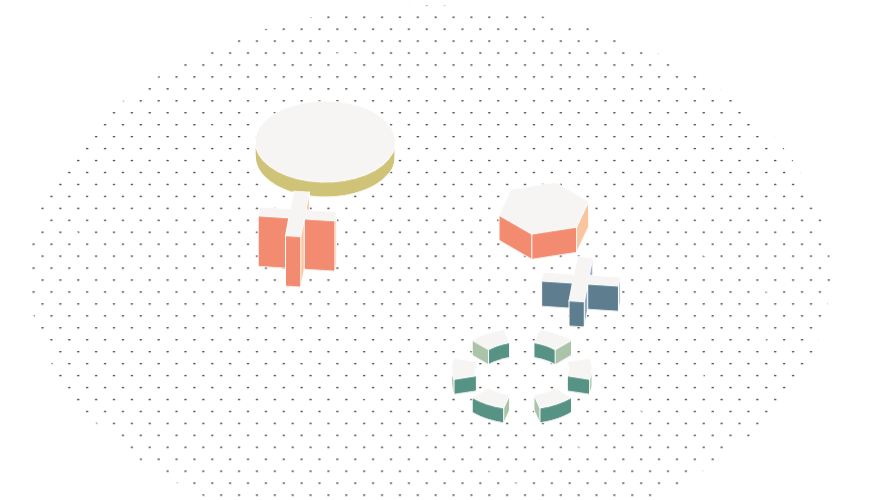
05. Objets Trouves

Chaotic objects injected on a metropolitan area that regulate and initiate a brand new organisation of spatial relations. The objects usually do not follow a pre-determined schematic regulation of the space. They regulate themselves and influence the surrounding urba-nity.

Mass Effect

_Masterplan_Ex Macello_02

Kollage City_A tools collection for urban programs

Politecnico di Milano
School of Architecture and Society
Master of Architecture
Students/Giacomo Girardi_Endri Metaj
Thesis advisor/Alessandro Rocca
A.Y. 2014-15

Isometric view/scale 1_2.000

scale 1_5.000

Bigness instigates the regime of complexity

Bigness is no longer part part of any urban tissue

Changing flows superimposed onto a generic template

Autonomy of parts vs. fragmentation

06. Bigness

Tendency of architecture. The limit where architecture becomes more than simple spatial design. Bigness investigates the complexity of architecture and promotes a richer programmation. Bigness is no longer part of the urban tissue. It coexists with it rather than exist within it. A programming method allows to create spatial elements that react with each other. New events. A free-form architecture.
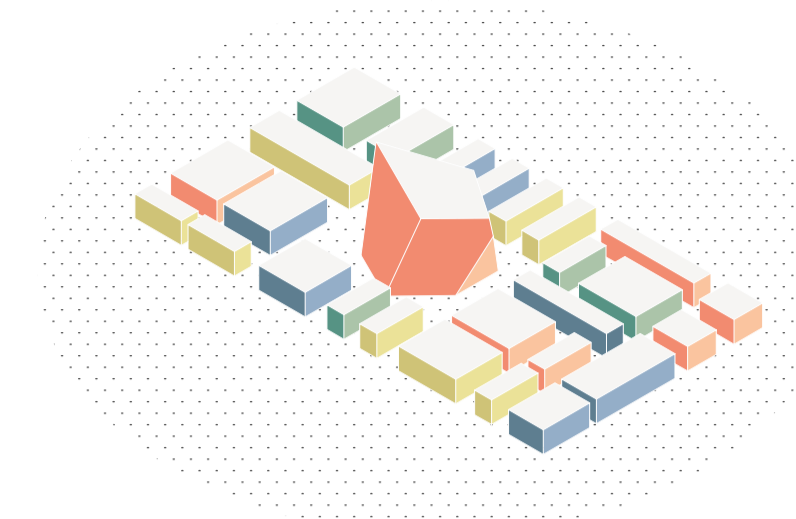
05. Objets Trouves

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Central (Park?)

_Masterplan_Ex Macello__03

Enclosure generates a site for accidental and chaotic attractions

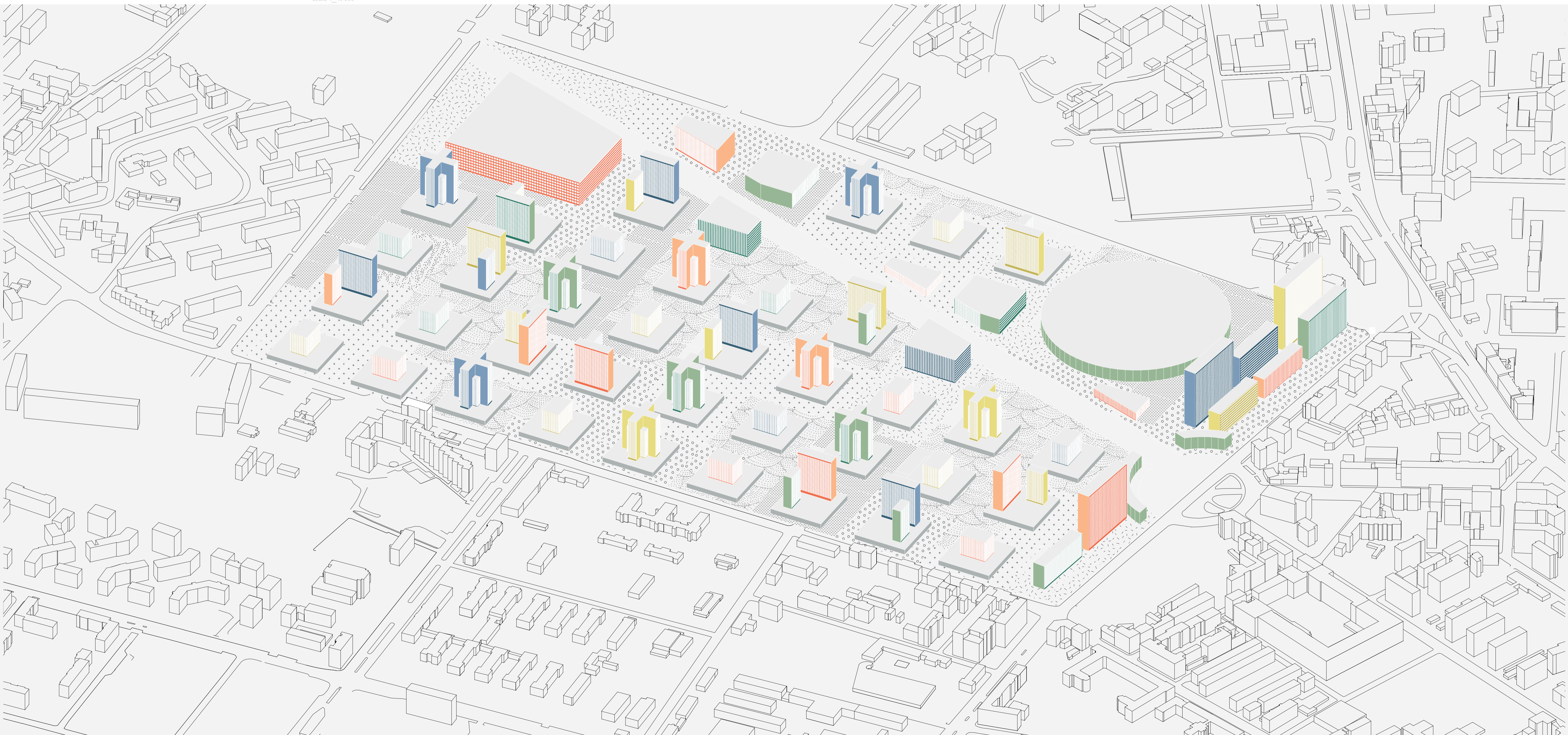Neutrality of the grid as ideal background for unique elements

01. Programmatic Grid

A new subdivision of the metropolitan territory into controlled parts, which creates a system of islands and archipelagos. The more the islands are different and host dissimilar values, the more the archipelago as a system is reinforced. The Programmatic Grid differs from the previous organisation of the urban tissue and can engulf it

07. Borders Filling

To saturate the limits of an area and to leave free space in the middle of it. This filling process stresses the boundaries of a specific urban zone and meanwhile sets the interior extent as a programmatic lava where freedom of act is the main feature

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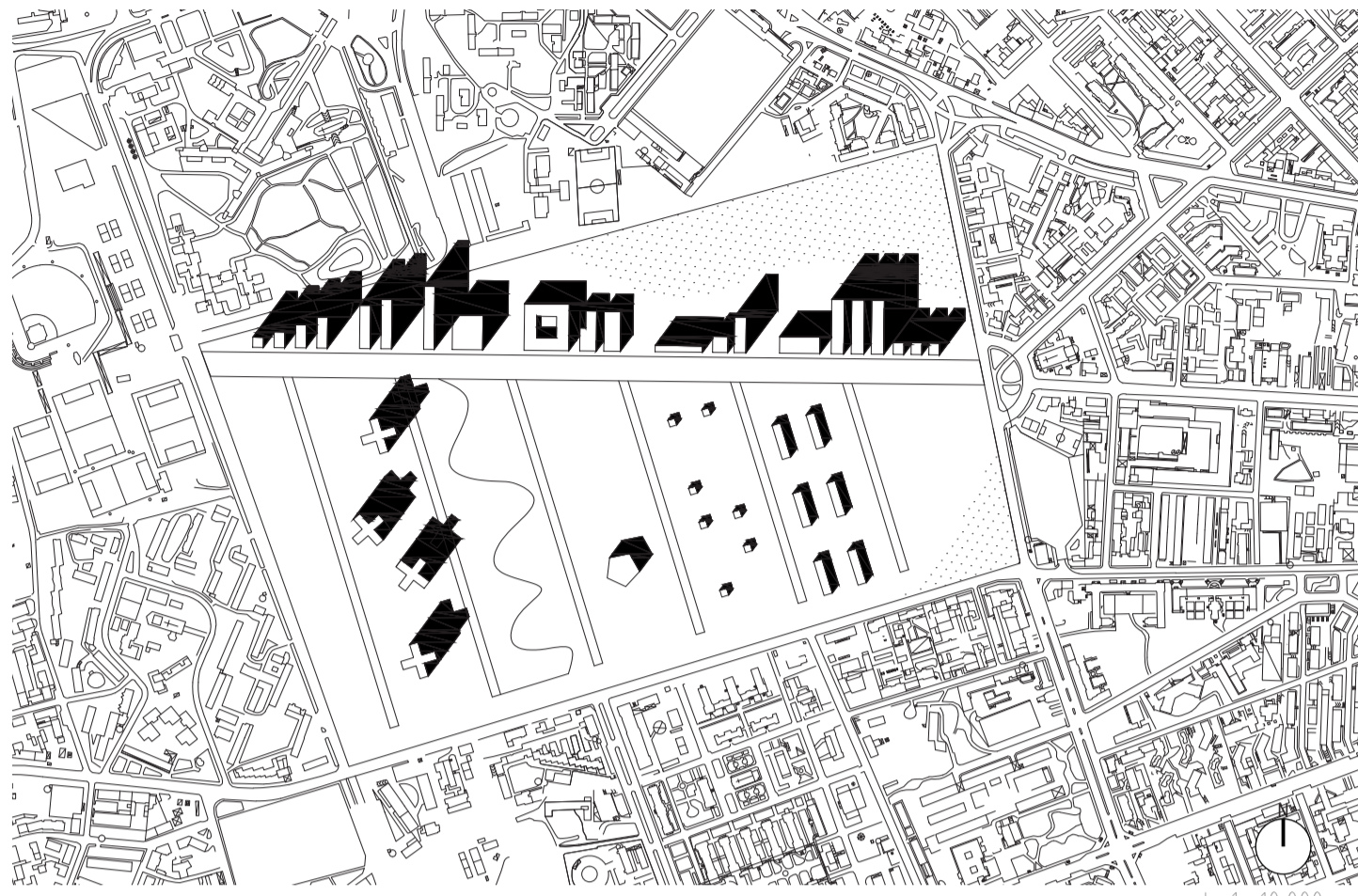
scale 1_5 000

Unusual repetition vs. boring variety

Coexistence of random architectures
in a strictly partiotioned field.
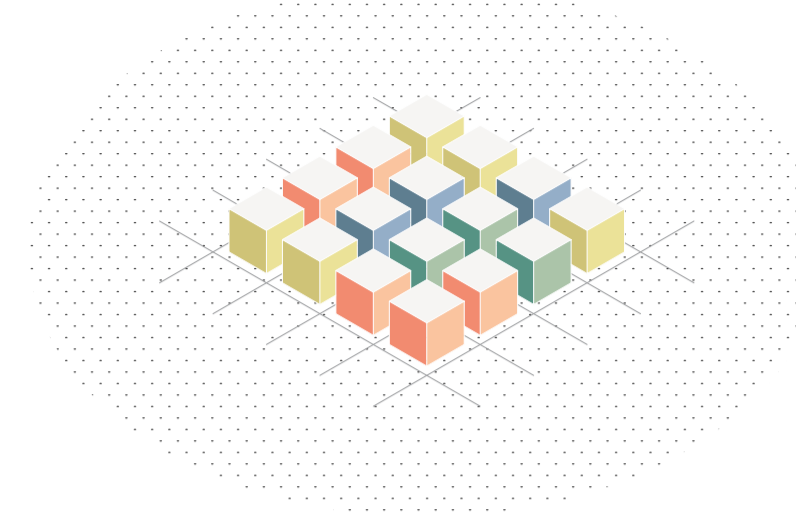
scale 1_10.000

01. Programmatic Grid

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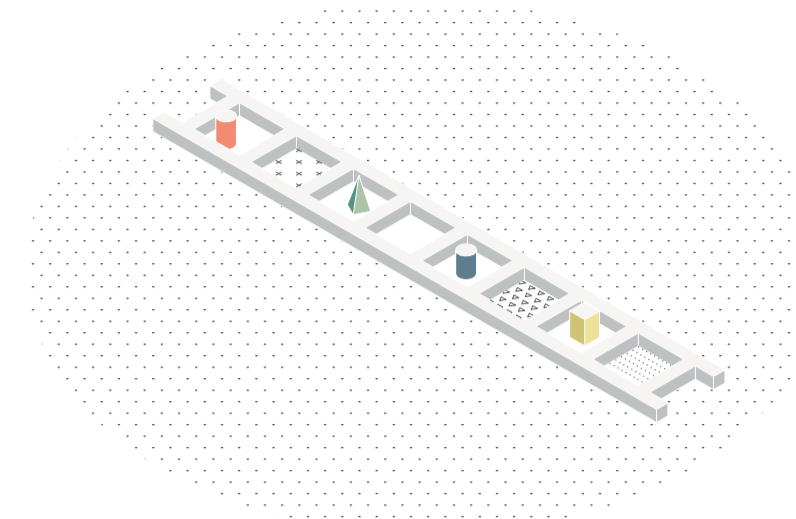
02. Connector

An urban strategy deeply influenced by the presence of a main path that organises the entire program. As a generating element, it does not necessarily conform its shape and features to the existing urban tissue.

Experimental Playfield

_Masterplan_Forze Armate_02

Kollage City_A tools collection for urban programs

Politecnico di Milano
School of Architecture and Society
Master of Architecture
Student_Giacomo Gerelli, Endri Metaj
Theory advisor_Alessandro Rocca
A.Y. 2014-15

Isometric view, scale 1_2.000

Social condenser based on horizontal congestion

Programmatic instability vs. architectural specificity

Sous le pavés, la plage?
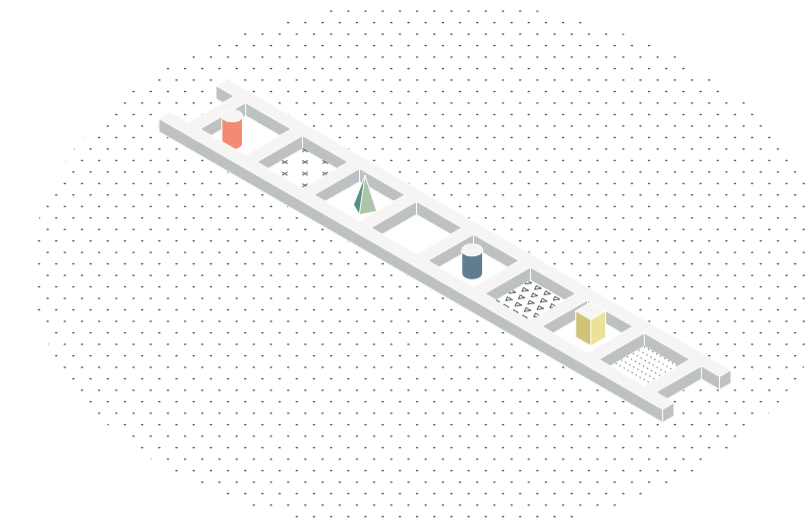
02. Connector

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04. Bands

Unidimensional programmatic strips. They define entire spatial slices of the urban territory. The main feature is the individuation of a schematic and clear sectorial organisation.

05. Objets Trouves

Chaotic objects injected on a metropolitan area that regulate and initiate a brand new organisation of spatial relations. The objects usually do not follow a pre-determined schematic regulation of the space. They regulate themselves and influence the surrounding urbanity.

scale 1_10.000
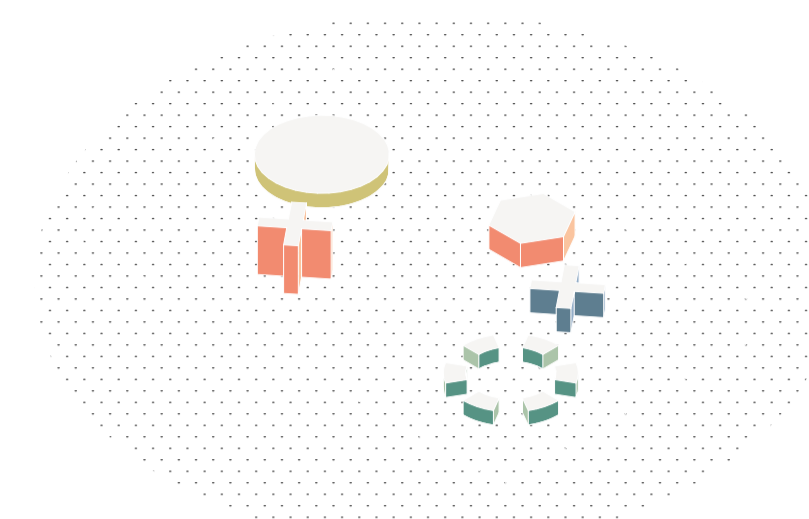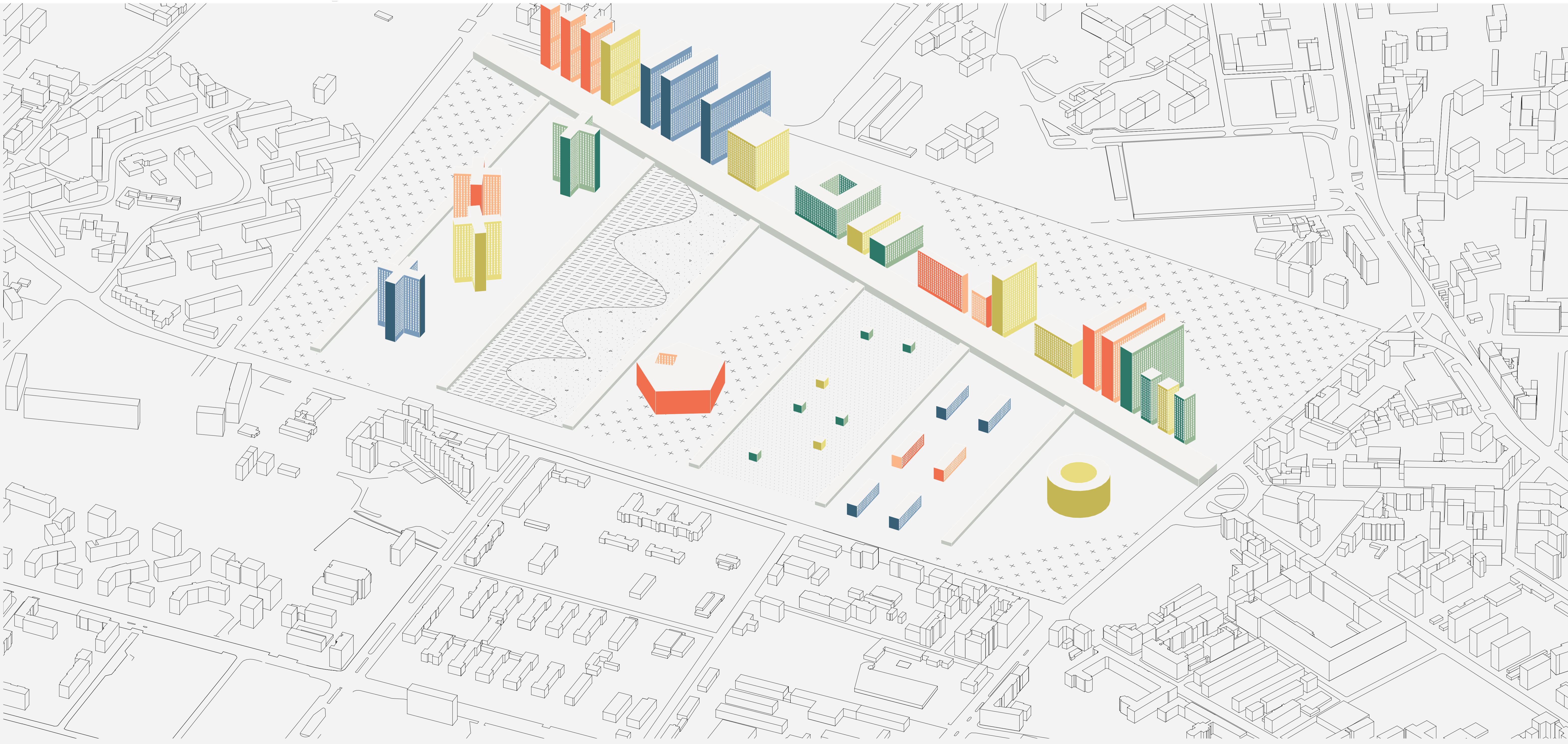
Town, Country, Town-Country
_Masterplan_Forze Armate_01

scale 1_10.000
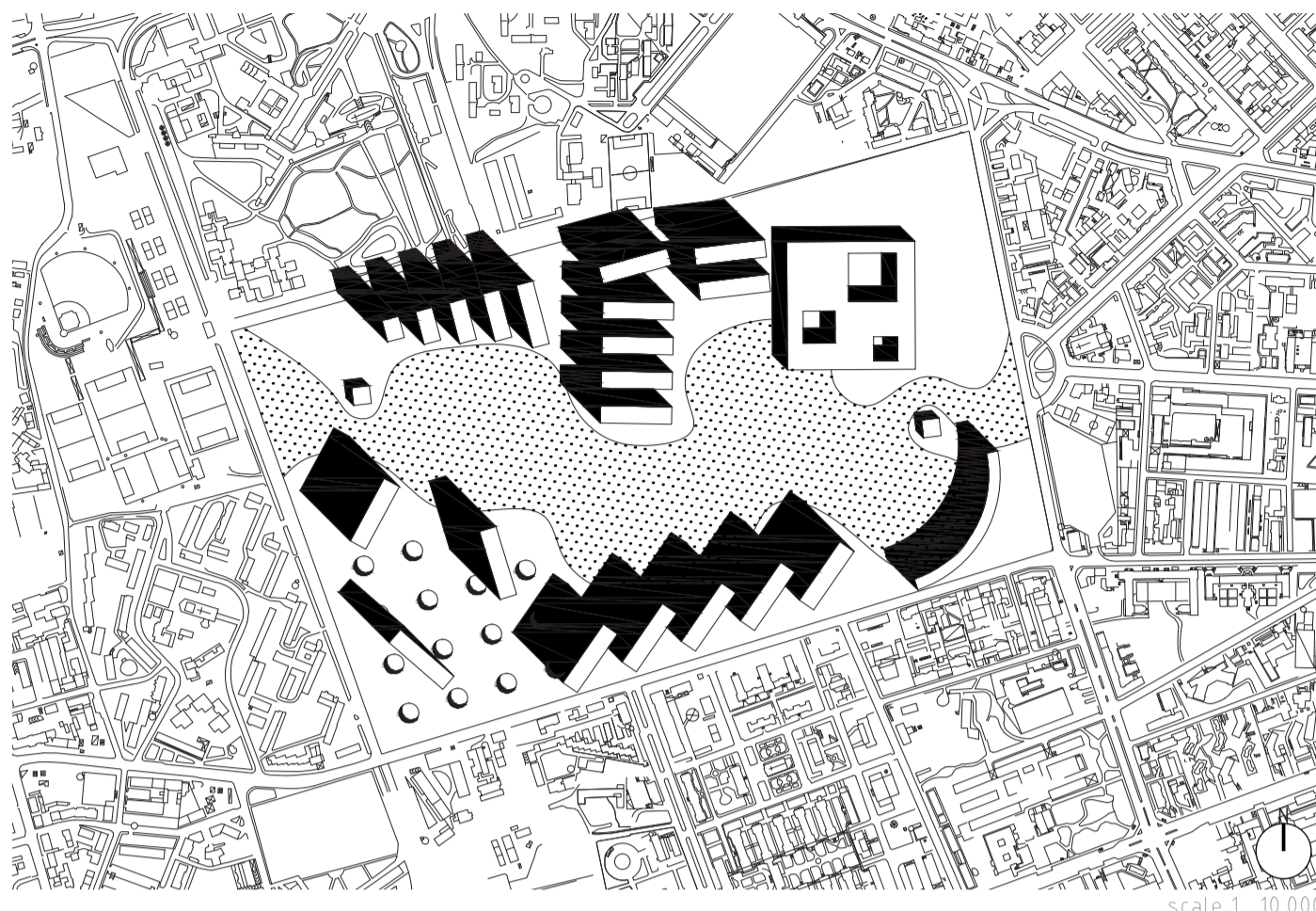
Attractive high-rise and horizontal congestion for hybrid condition and attractions.

The city is the relationship of constantly changing flows superimposed onto a generic template.
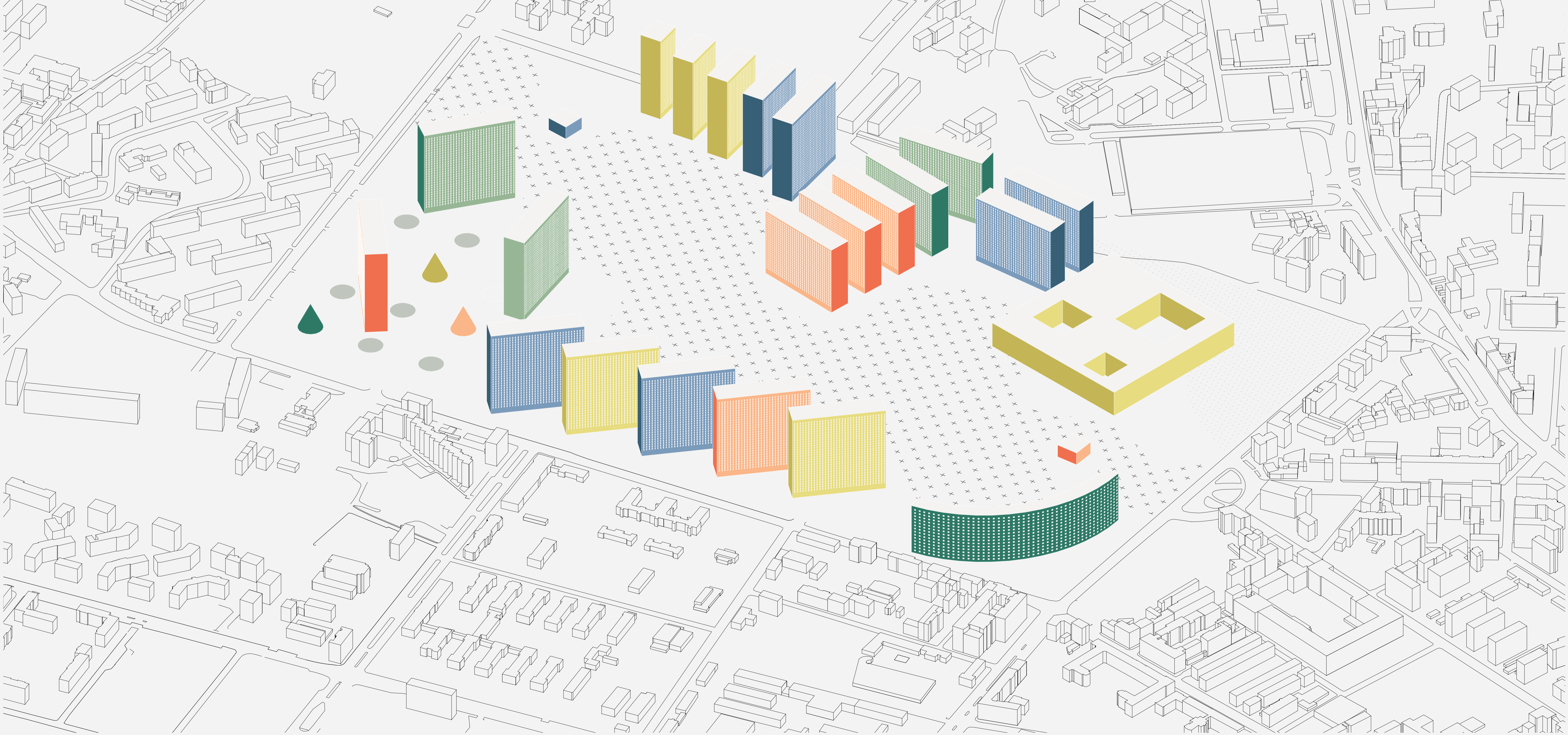

07. Borders Filling

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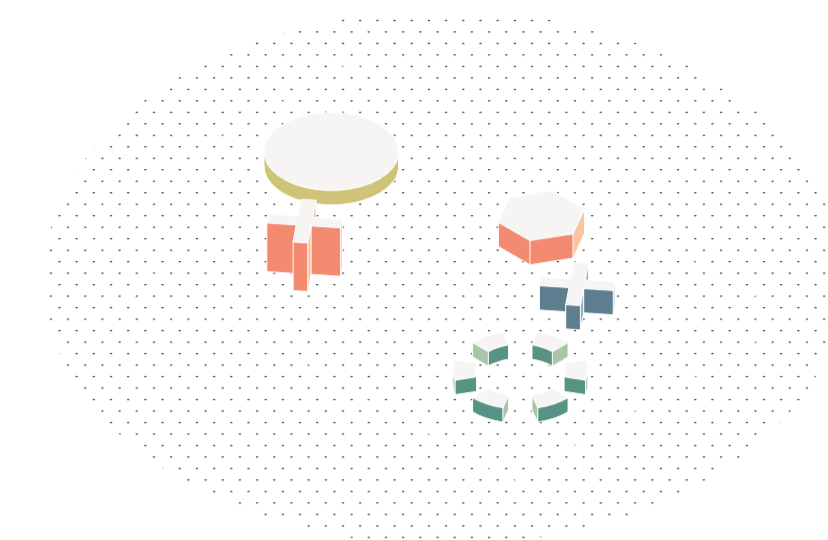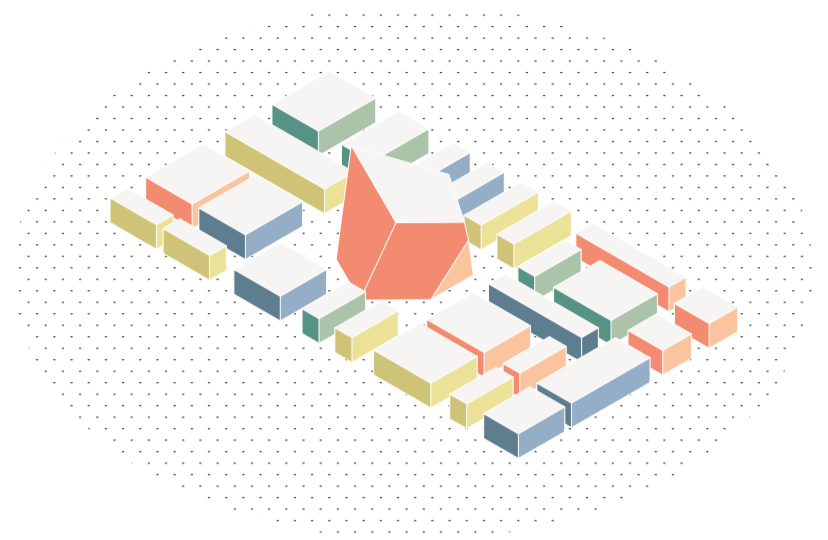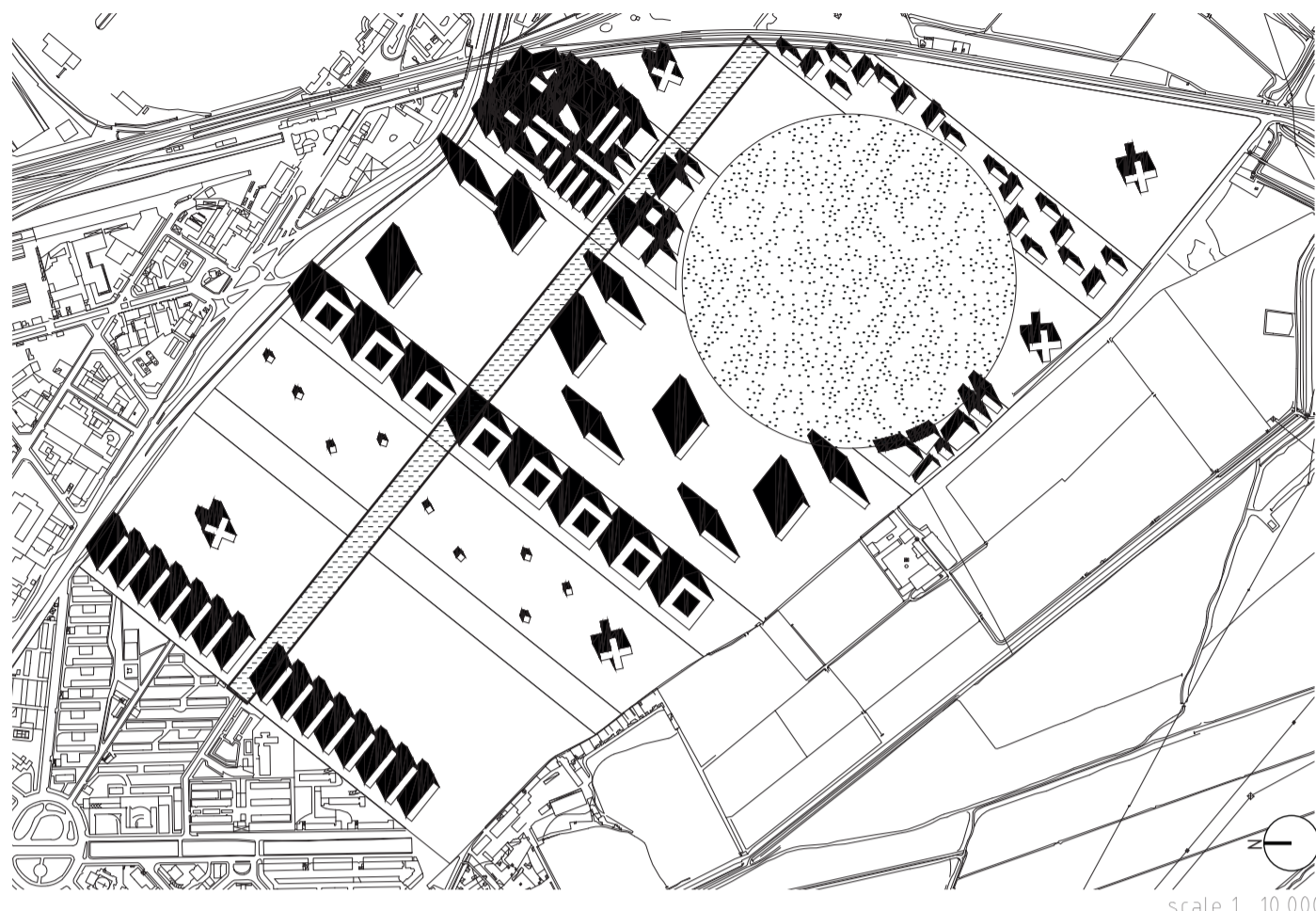

06. Bigness

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05. Objets Trouves

Chaotic objects injected on a metropolitan area that regulate and infla-te a brand new organisation of spatial relations. The objects usually do not follow a pre-determined schematic regulation of the space. They regulate themselves and influence the surrounding urbanity.

Urban Archipelago

_Masterplan_Porto di Mare _01

Kollage City _A tools collection for urban programs

School of Architecture
Master
Student: Giacomo Geroldi, Andri Matei
Thesis advisor: Massimo Rocca
A.Y. 2014-15

Isometric view/scale 1_3.000

scale 1_10.000

Implementation of concentrated built substance

Urban fragments generate pluralistic urbanism

05. Objets Trouves

Chaotic objects injected on a metropolitan area that regulate and influen-
ce a brand new organisation of spatial relations. The objects usually do
not follow a pre-determined schematic regulation of the space. They
regulate themselves and influence the surrounding urbanity.

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within it. A programming method allows to create spatial elements that
react with each other. New events. A free-form architecture.

In-stability fields
_Masterplan_Porto di Mare_02

Kollage City_A tools collection for urban programs

School of Architecture
Master
Student: Giacomo Geroldi
Thesis advisor: Massimo Rocca
A.Y. 2014-15
Isometric view/scale 1_3.000

scale 1_10.000

Coexistence of trasforming landscapes

Rapid change vs. continuous atmospheres
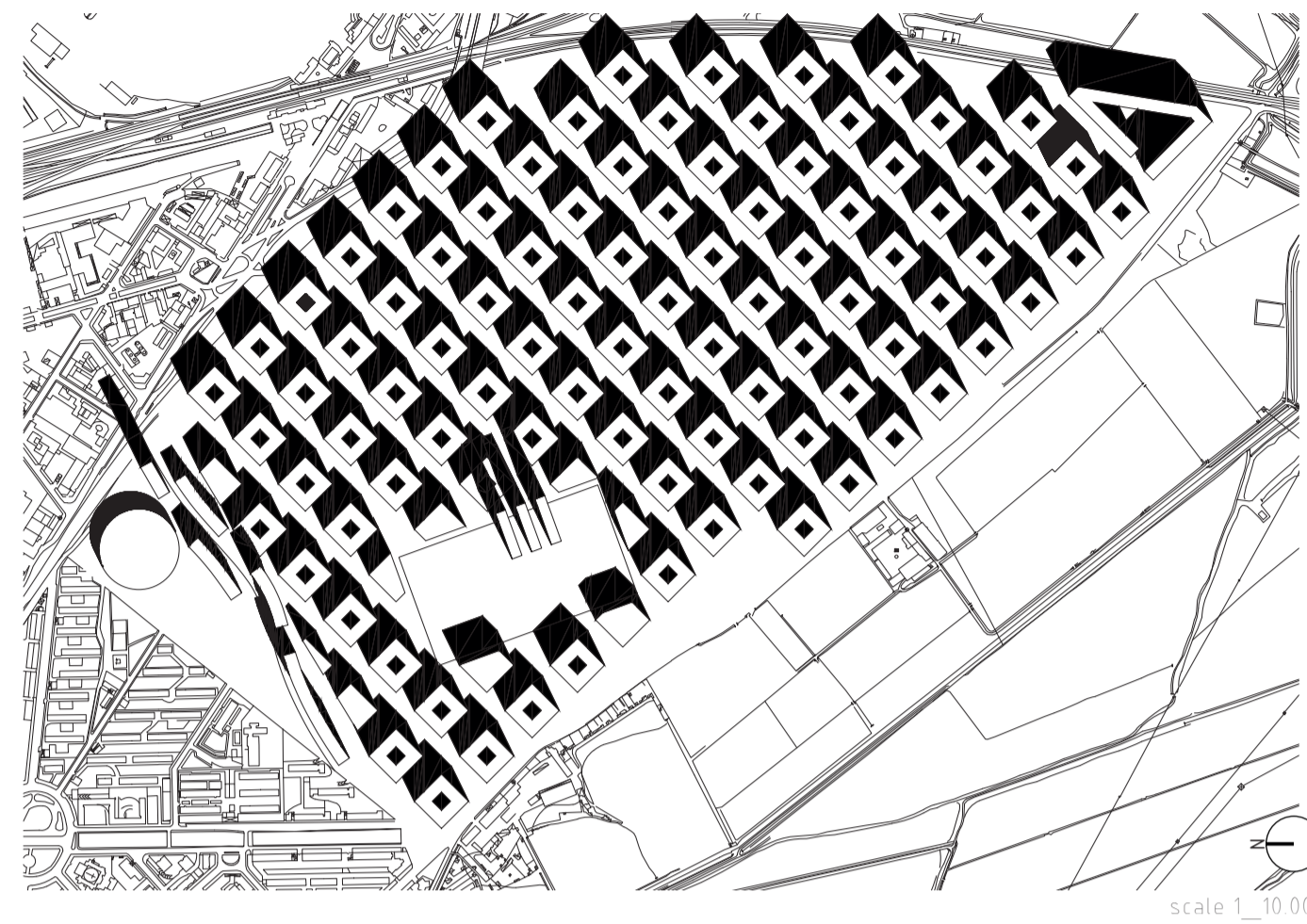
Merging cityscape in natural environment

04. Bands

Unidimensional programmatic strips. They define entire spatial slices of the urban territory. The main feature is the individuation of a schematic and clear sectorial organisation.
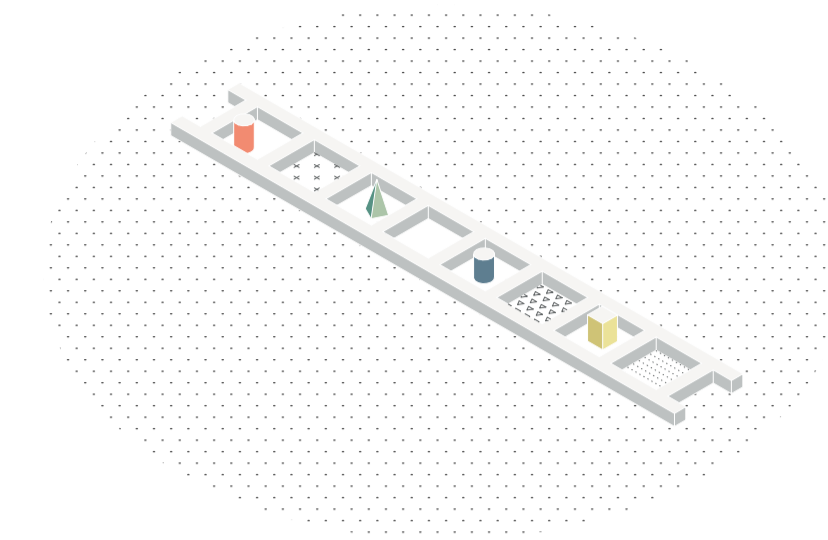
02. Connector

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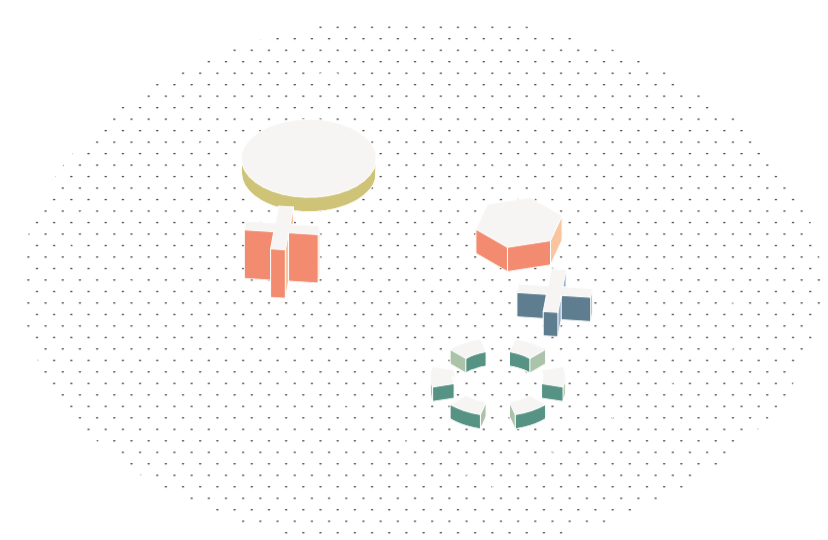
05. Objets Trouves

Chaotic objects injected on a metropolitan area that regulate and inhabi-te a brand new organisation of spatial relations. The objects usually do not follow a pre-determined schematic regulation of the space. They regulate themselves and influence the surrounding urbanity.
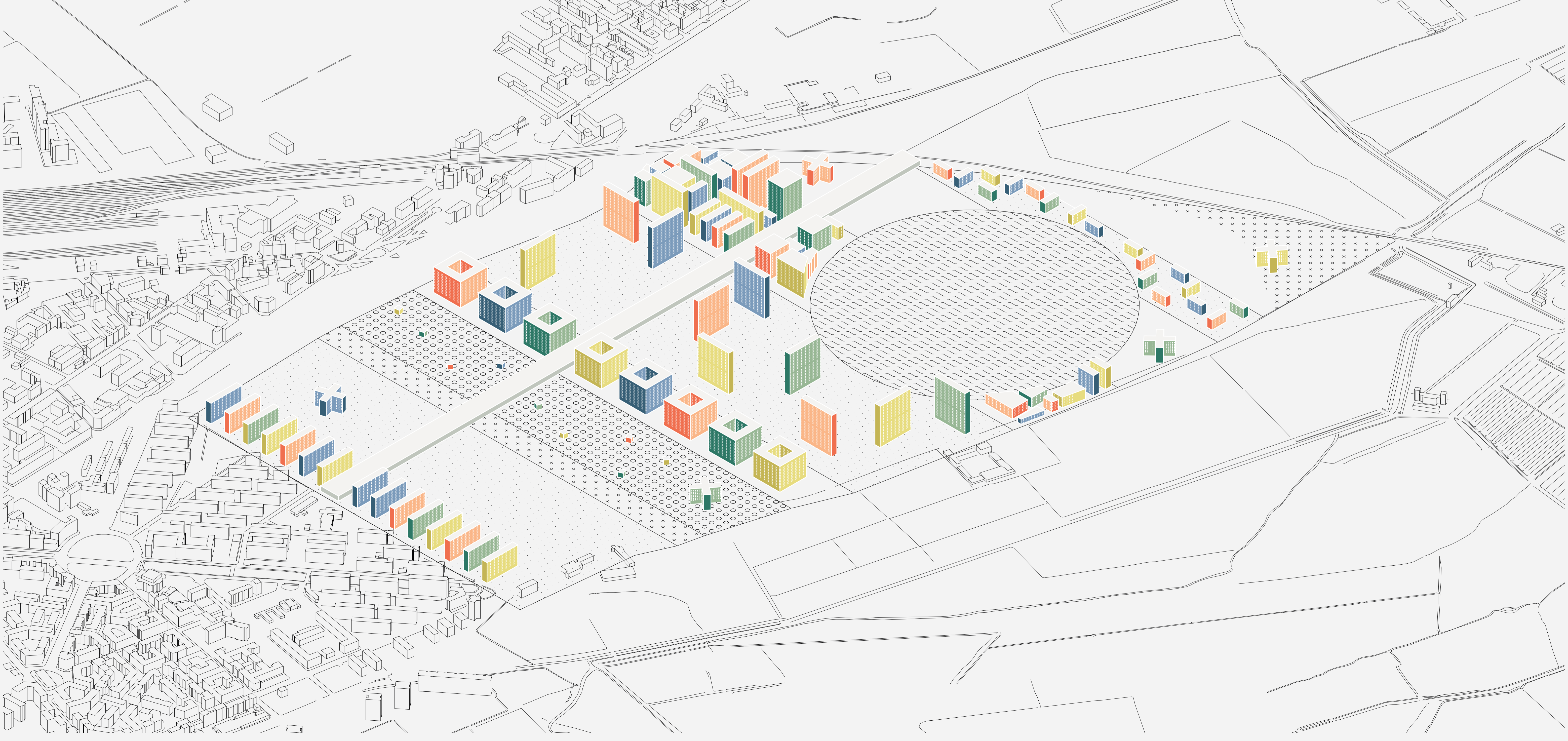
Der Traum von Groszstadt
_Masterplan_Porto di Mare _03

Kollage City _A tools collection for urban programs

School of Architecture
Master
Student: Giacomo Gerolini
Thesis advisor: Massimo Rocca
A.Y. 2014-15
Isometric view/scale 1_3.000

The city is a limitless expanding entity

Struggle between the will to architectural form and the capacities of urban formlessness
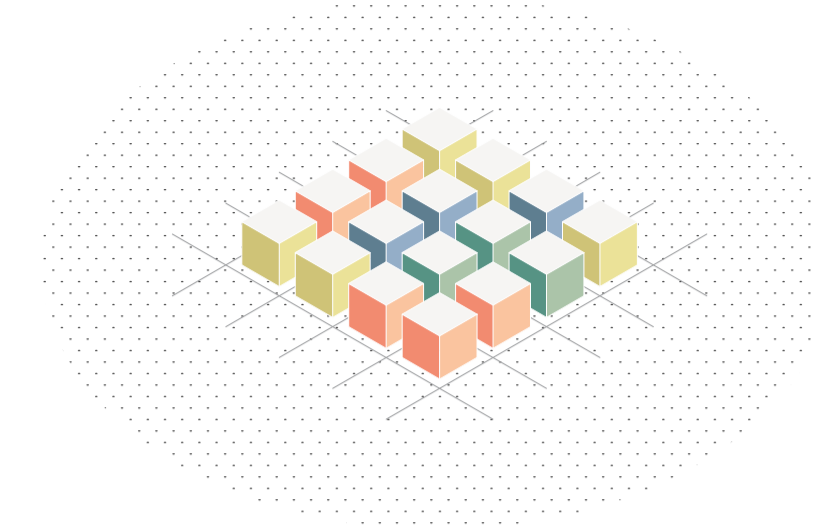
scale 1_10.000

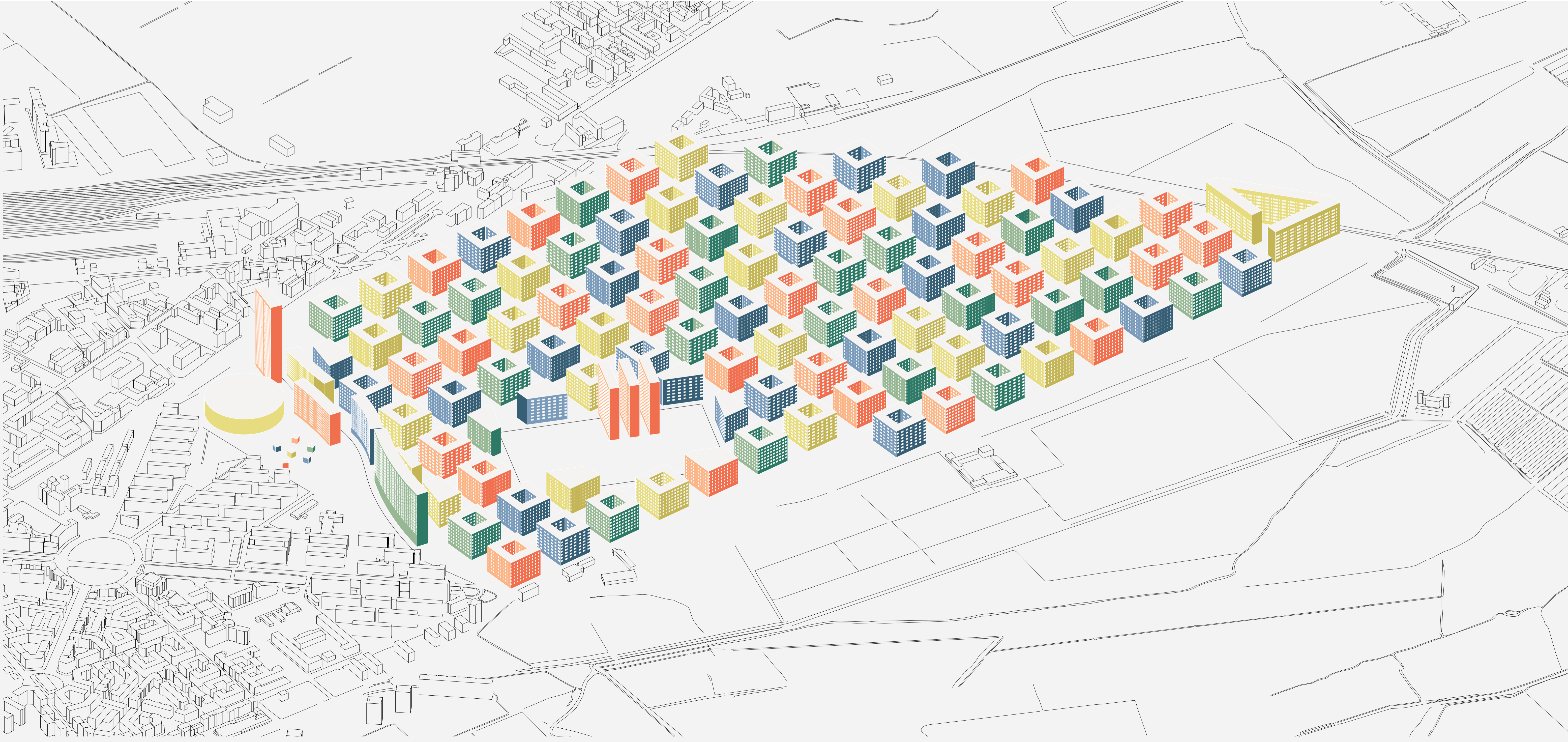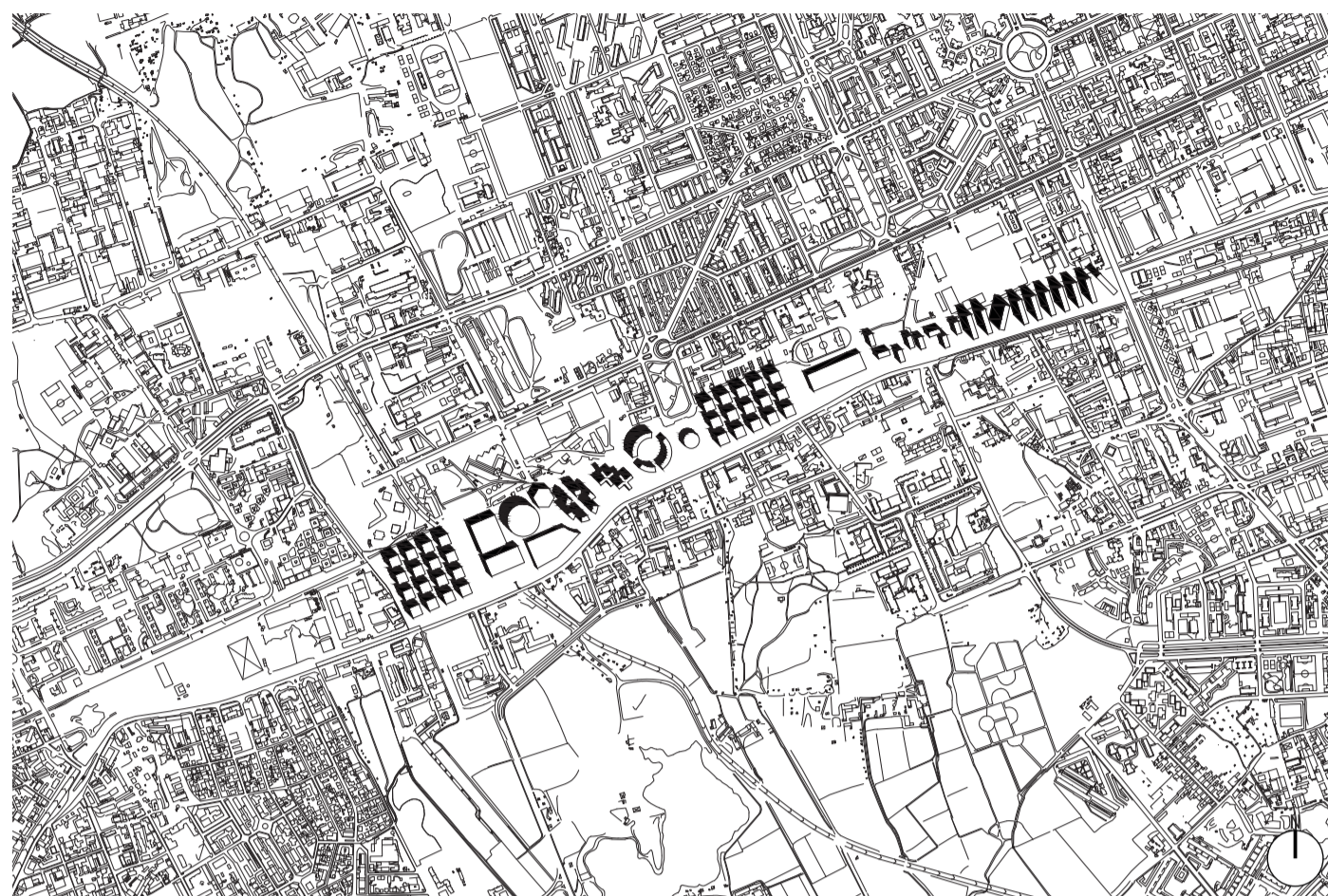**01. Programmatic Grid**

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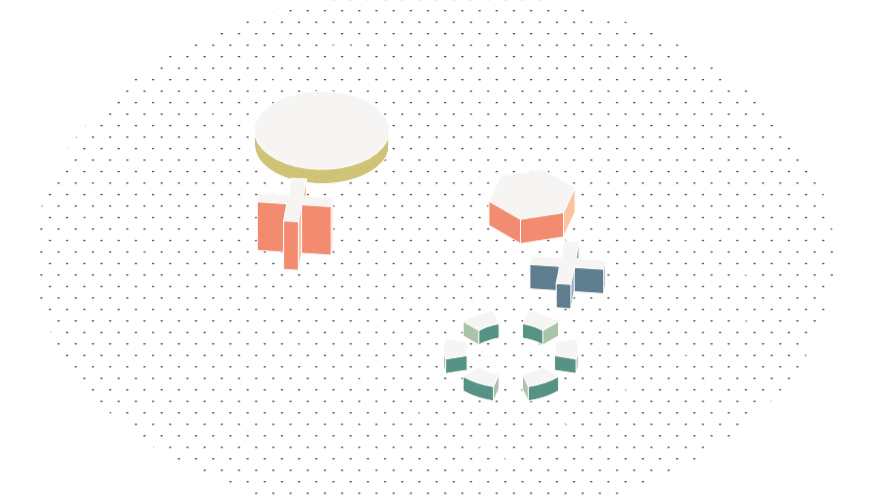
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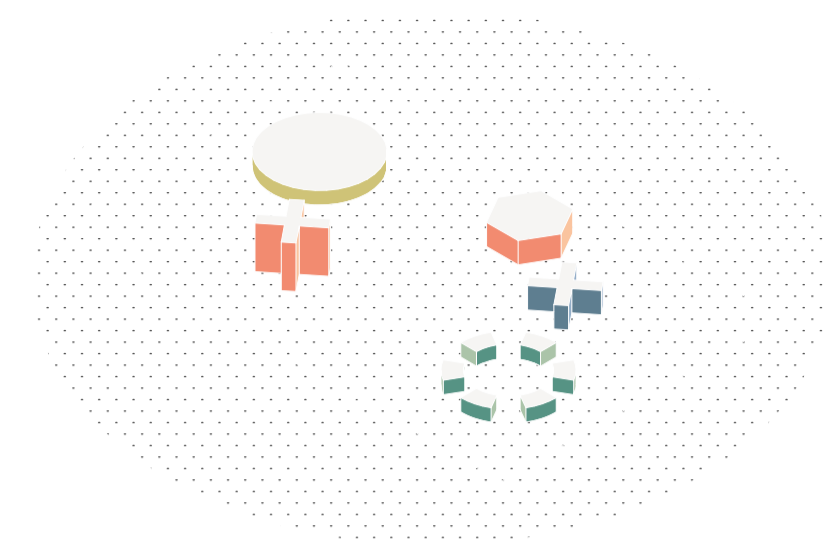
Differential Fragments
_Masterplan_San Cristoforo_01

Kollage City_ A tools collection for urban programs

Politecnico di Milano
School of Architecture
Master
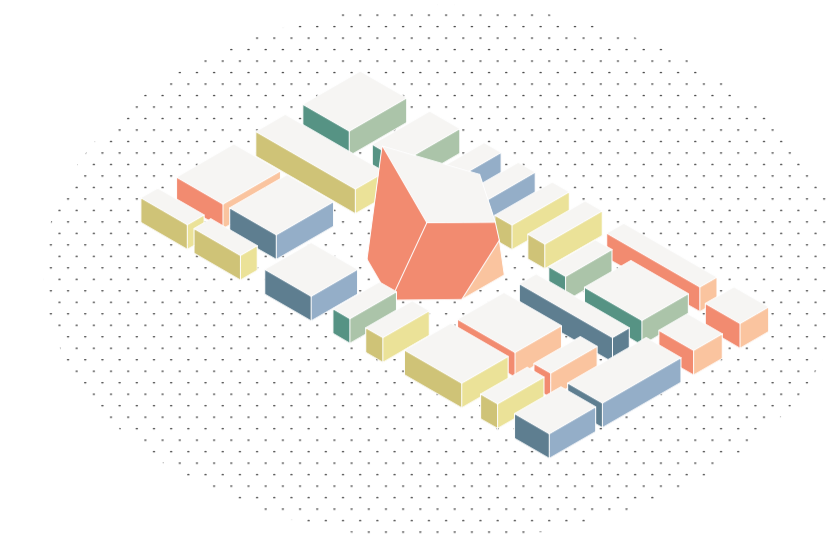Student Giacomo Geroldi_ Esame
Thesis advisor
2014/15

Each program different and autonomous, but modified and "polluted" through the proximity of all others

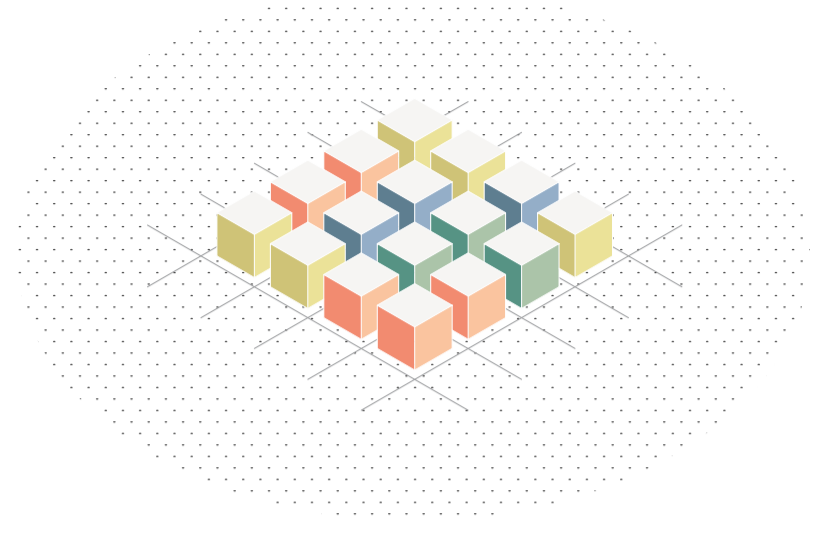Coexistence of different urban clusters within a narrow site

05. Objets Trouves
Chaotic objects injected on a metropolitan area that regulate and initiate a brand new organisation of spatial relations. The objects usually do not follow a pre-determined schematic regulation of the space. They regulate themselves and influence the surrounding urbanity.
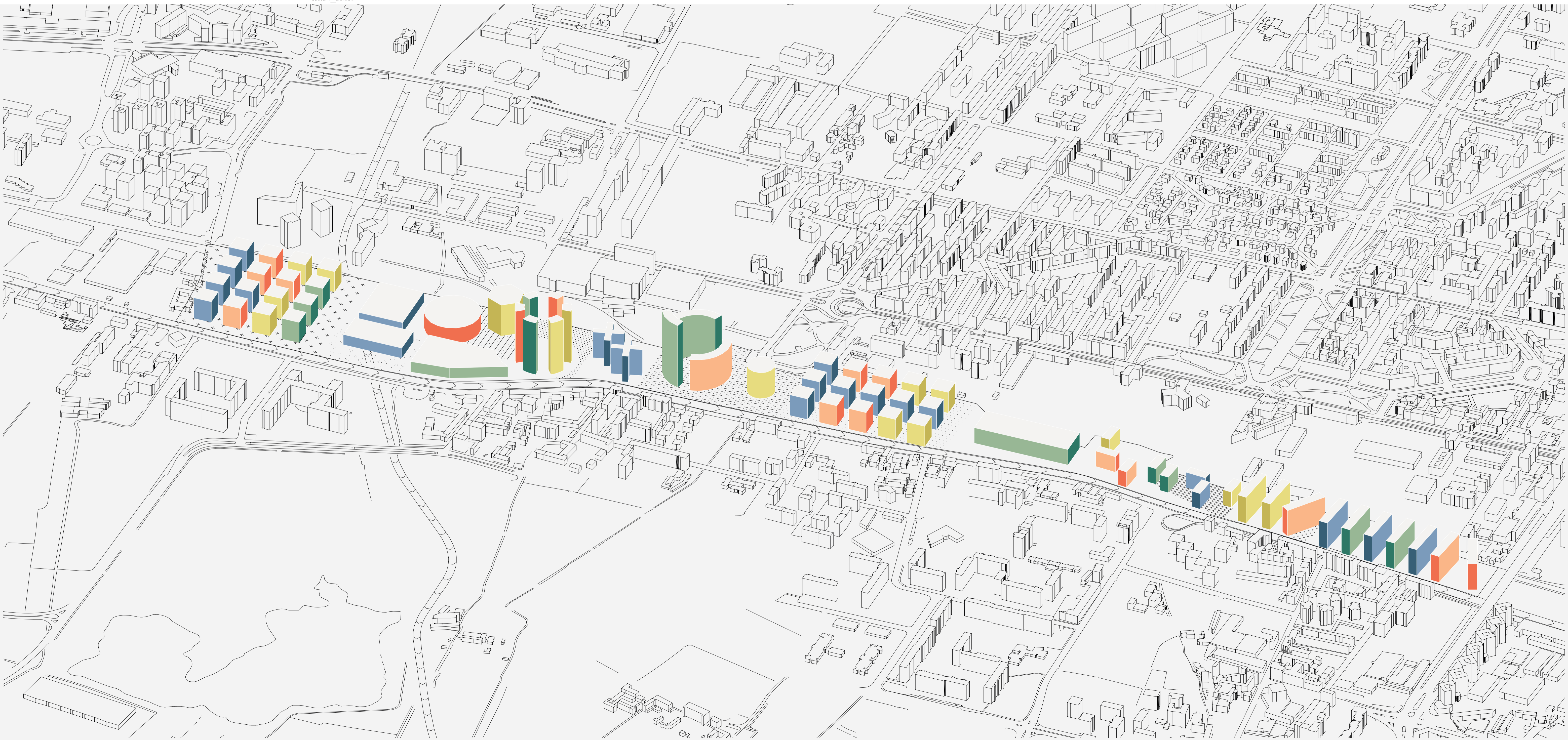
06. Bigness
tendency of architecture. The limit where architecture becomes more than simple spatial design. Bigness investigates the complexity of architecture and promotes a richer programmation. Bigness is no longer part of the urban tissue. It coexists with it rather than exist within it. A programming method allows to create spatial elements that react with each other. New events. A free-form architecture.

01. Programmatic Grid
A new subdivision of the metropolitan territory into controlled parts, which creates a system of islands and archipelagos. The more the islands are different and host dissimilar values, the more the archipelago as a system is reinforced. The Programmatic Grid differs from the previous organisation of the urban tissue and can engulf it.
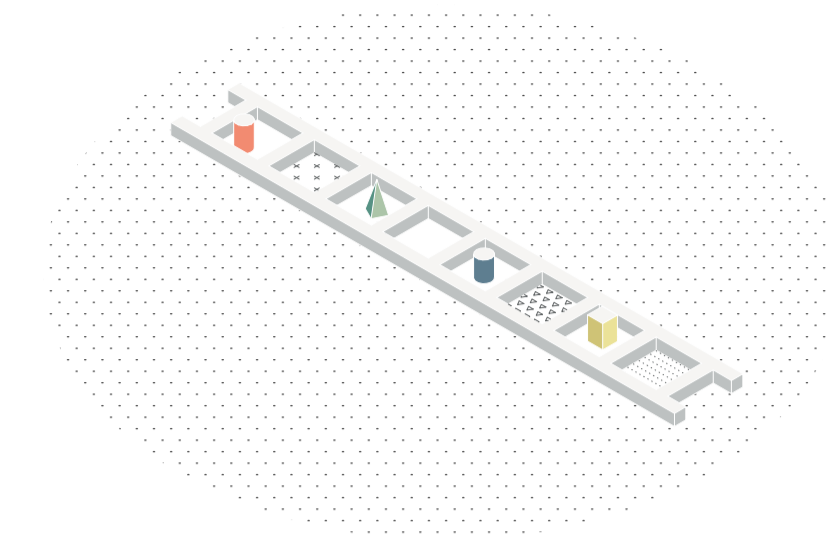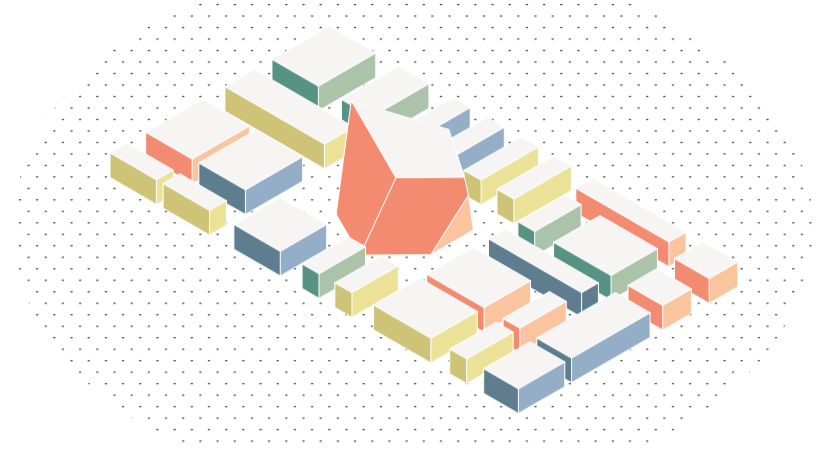
Snakes & Ladders
_Masterplan_San Cristoforo_02
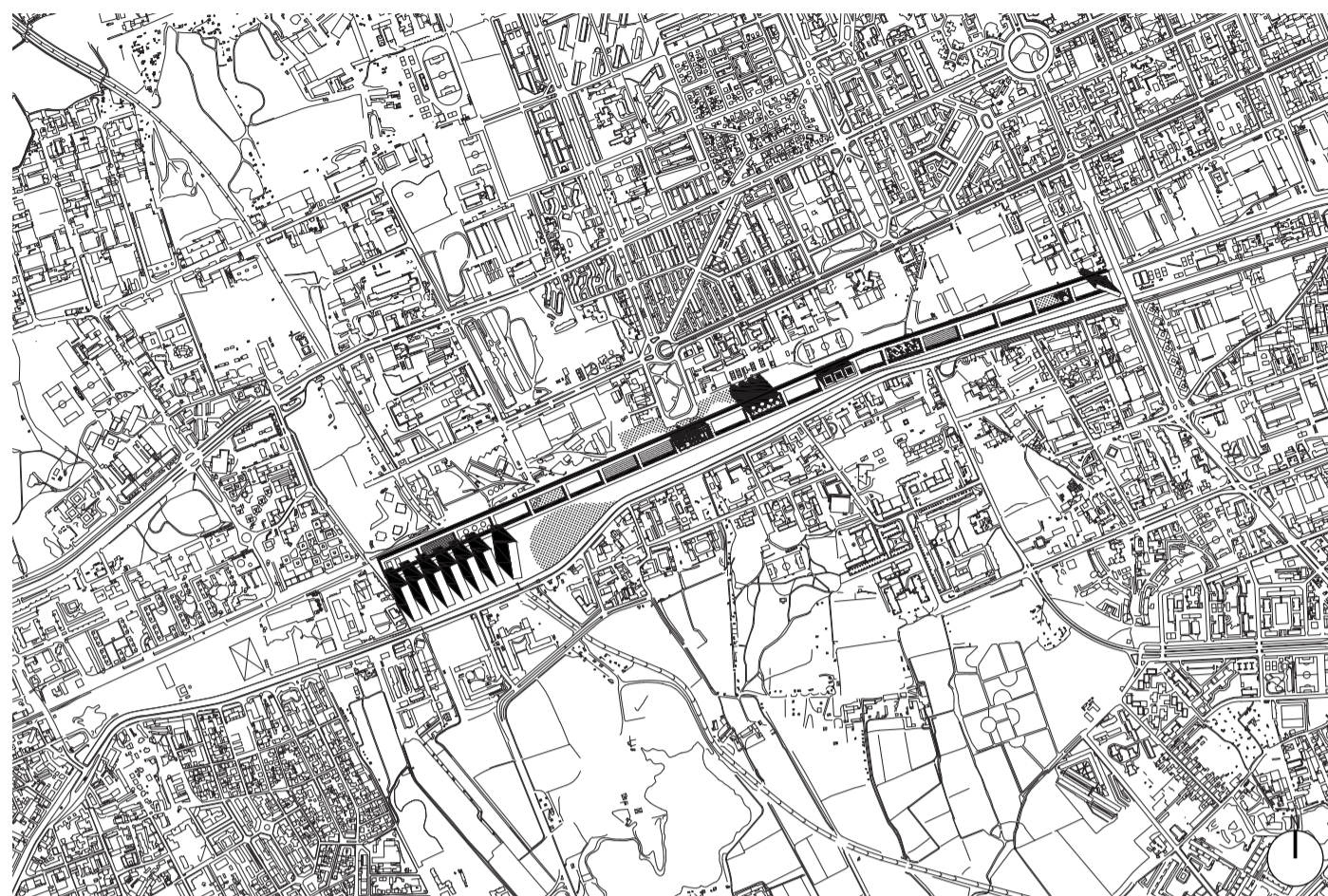
Sector based connecting element generates diverse neighboring

Circulation system nourishes all episodes of the striped shaped site

02. Connector

An urban strategy deeply influenced by the presence of a main path that organises the entire program. As a generating element, it does not necessarily conform its shape and features to the existing urban tissue

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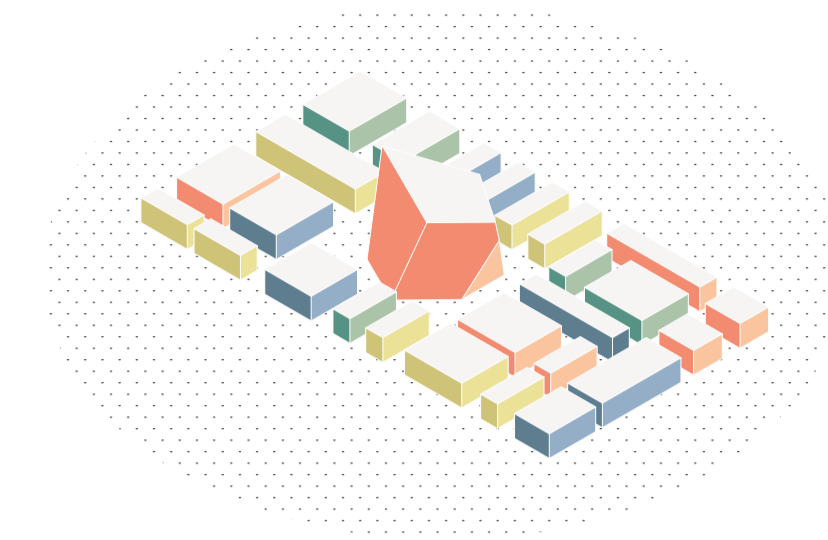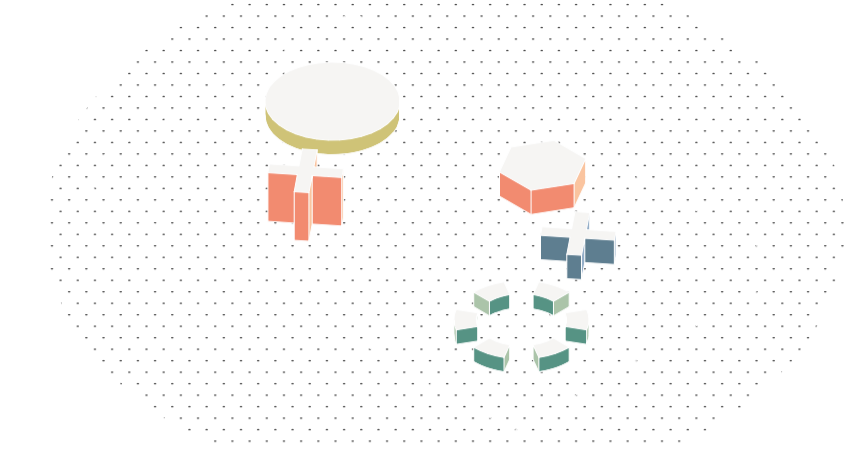
Railway Wharf
_Masterplan_San Cristoforo_03

Overcoming site's limitations by capitalizing infrastructures

Mechanical rather than architectural connections

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