

Portfolio

Carolina Passos

Urban Designer & Urban Data Specialist

Email

carolina.pos@gmail.com

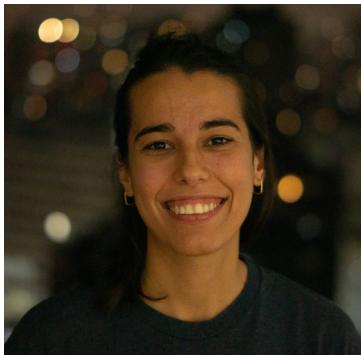
Phone

+39 320 400 9850

Website

<https://mappinglab.me>

<http://carolinapassos.arq.br>



CAROLINA PASSOS

Urban Designer and
Urban Data Specialist

PROFILE

carolina.pos@gmail.com
+39 320 400 9850
Florence, Italy
<https://carolinapassos.arq.br>
<https://mappinglab.me>

Citizenship

Portuguese (EU citizen)

Position

Urban design, Urban planning,
Urban data GIS, Research

Languages

Portuguese, English, Italian

Portfolio

carolinapassos.arq.br/portfolio

Architect and urban designer, graduated from the University of São Paulo - Brazil, with postgraduate course in Geospatial and Environmental Analysis.

I've been working on the development of masterplans and urban strategic plans at Architects Office AO-SP (www.ao-sp.com), also worked as consultant in Geospatial data analysis at the World Bank Group, IDB and UN Habitat into projects regarding metropolitan planning, transportation and environmental-social development.

I'm the founder and urban data expert of Mapping Lab (www.mappinglab.me), a platform for cartographic and visual experimentation, combining expertise in planning and design, GIS research and analysis to development of interdisciplinary projects, which has participated at the Biennale di Architettura di Venezia 2023, 2021/2020 and 2018, International Architecture Biennale of São Paulo 2019 and the 2019 Seoul Biennale of Architecture & Urbanism.

My professional aim is to be involved in the discussion and construction of more sustainable and collective cities as someone who believes the cities are centres of power, knowledge innovation and social integration.

QUALIFICATIONS

2016 – 2017 Postgraduate course in Geospatial and Environmental Analysis (GIS)

Federal University of São Carlos - UFSCAR
São Carlos, BR

2009 – 2010 Master in Architecture and Urban Design

Politecnico di Milano
Milan, IT

2006 – 2011 Bachelor in Architecture and Urbanism

University of São Paulo - USP
São Carlos, BR

WORK EXPERIENCE

2021 – now Architects Office - AO SP

Project leader urban design (BR)

2021 – now InfoAmazonia

Freelance cartographer (BR)

2019 – 2021 Consultant UN Habitat / IDB / Escolhas Institute / Tide Setúbal Foundation / Raddar
Urban designer & Urban data specialist (BR)

2018 – 2019 World Bank Group

Geospatial data analyst consultant (BR)

2017 – now Mapping Lab

Founder and Urban data specialist (BR)

2012 – 2018 Vigliecca & Assoc

Architect and Urban designer (BR)

2008 – 2009 University of São Paulo - USP

Research assistant at Nomads (BR)

2008 University of São Paulo - USP

Undergraduate assistant (BR)

CAROLINA PASSOS

CV - page 2

SELECTED PROJECTS

2023 Venice Biennale

Brazilian Pavillion (Golden Lion winner)
Cartographer
Venice, IT

2020/2021 Venice Biennale

Antarctica Pavillion
Mapping director / Cartographer and GIS
Venice, IT

Paraíso das Araucárias

Masterplan proposal and urban analysis
Campo Alegre, BR

Hacasa Campo Alegre

Masterplan proposal and urban analysis
Campo Alegre, BR

Radyr Ilhéus

Resort Masterplan proposal
Ilhéus, BR

Botanic Garden + Zoo

Masterplan proposal and urban analysis
São Paulo, BR

La Santé et la Ville - un horizon graphique

Research and design cartographic book
in collaboration with Triptyque Architecture
Paris, FR

2019 Seoul Biennale

Good for Thought - São Paulo case
in collaboration with Fernando Mello Franco
Seoul, KOR

2019 São Paulo Biennale

Citizen 156 - São Paulo
São Paulo, BR

2018 Venice Biennale

Brazilian Pavillion
Cartographer and GIS analysis
Venice, IT

Intercity Train (TIC) - World Bank Group

Pre-feasibility study for implementation of the
São Paulo / Campinas / Americana corridor.
São Paulo, BR

PIU Canindé - Portuguesa

Masterplan proposal and urban analysis
São Paulo, BR

Reinventing Cities - C40

Masterplan proposal and urban analysis
Vale dos Barris, Salvador, BR

Rio2016 Deodoro Olympic Park

Concept and technical drawings of BMX, Canoe
Slalom, X-Park facilities, National Hockey Centre
Rio de Janeiro, BR

National Complex Museum Masterplan Competition

Masterplan proposal and urban analysis
Administrative City, KR

Salvador Coast Urban Development Plan

Masterplan proposal and urban analysis
Salvador, BR

Arco Tietê Development Strategies

Masterplan proposal and urban analysis
São Paulo, BR

Mooca-Vila Carioca Urban Development Plan

Masterplan proposal and urban analysis
São Paulo, BR

SKILLS

Planning / Urban design

Urban analysis
Masterplanning
Public Space design
Development strategy
Mobility infrastructure
Blue-Green infrastructure

Mapping / Spatial analysis

QGIS
Postgre SQL
Space syntax
Mapbox

Graphic Design

Photoshop
Illustrator
InDesign

Design

Autocad 2D/3D
Sketchup - Vray
Blender

Microsoft office

Word
Excel
Powerpoint

Paraíso das Araucárias Masterplan

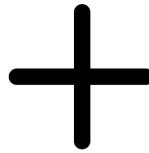
Campo Alegre, Santa Catarina

Urban project with more than 470.000 sq.m. The masterplan provides housing, incorporates the environmental agenda, improves urban mobility (cycling infrastructure) and urban life by promoting economic and social development.

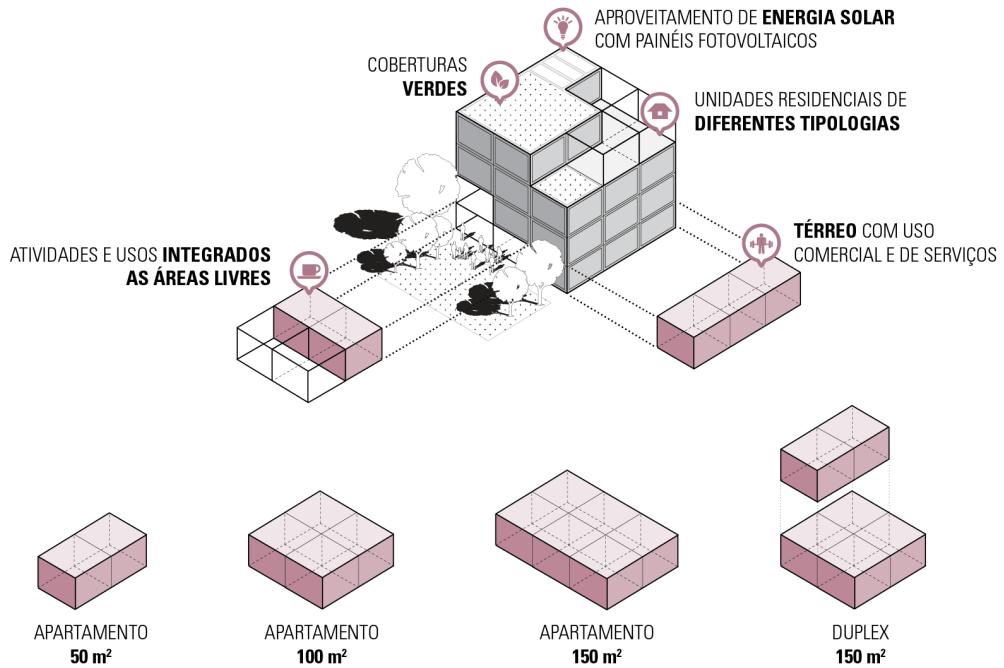
Project leader and responsible for analyzing urban typologies, transportation planning, green infrastructure, developing the strategic masterplan, concepts drawings, diagram, presentations and follow-up with the client.



DINÂMICA URBANA DE USO MISTO E DIFERENTES ESCALAS



ESPAÇOS LIVRES E PAISAGEM NATURAL LOCAL INTEGRADOS

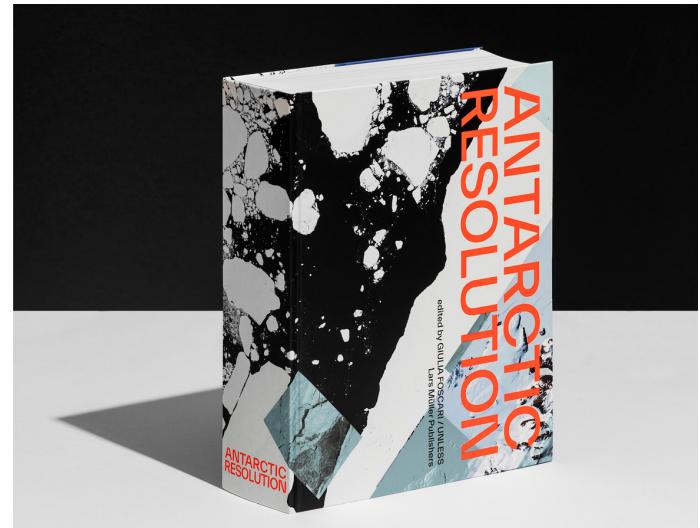
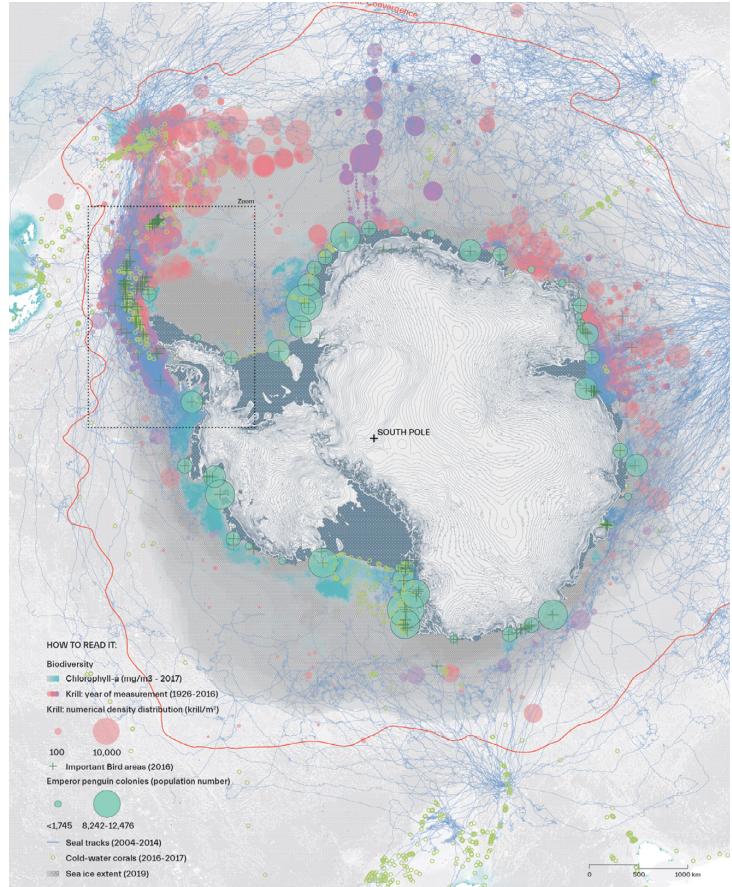
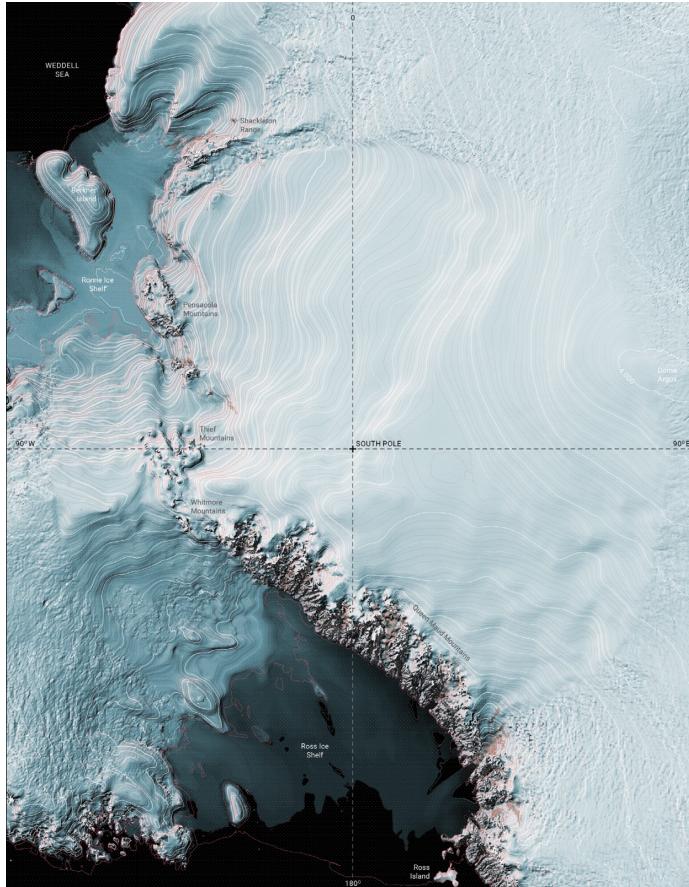


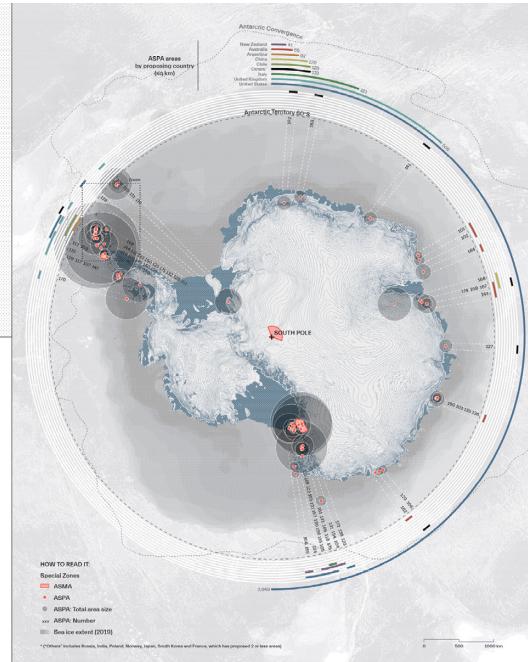
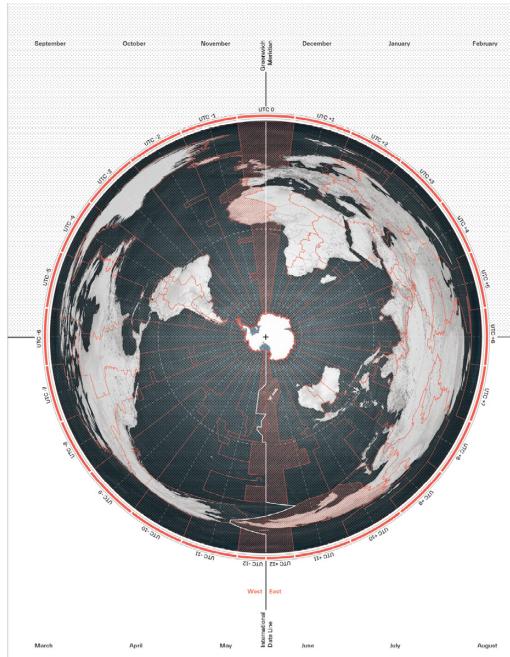
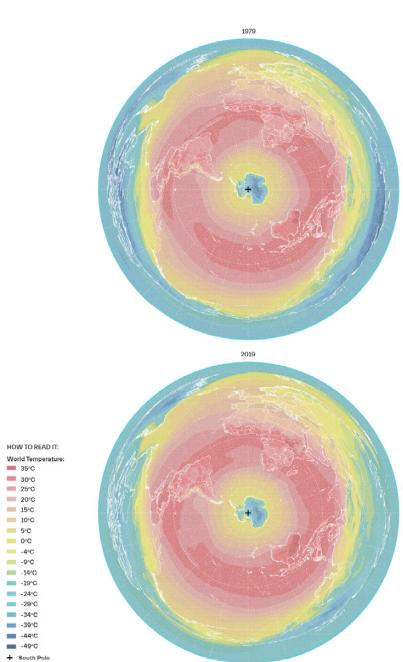
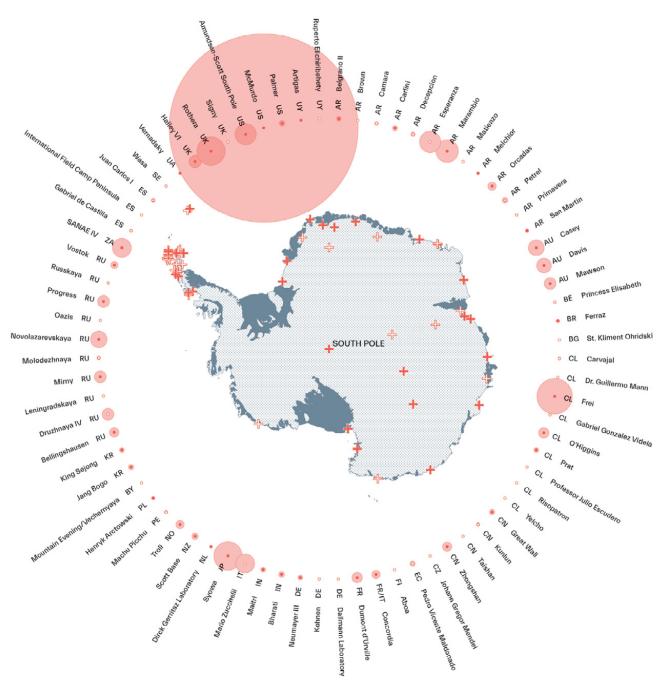
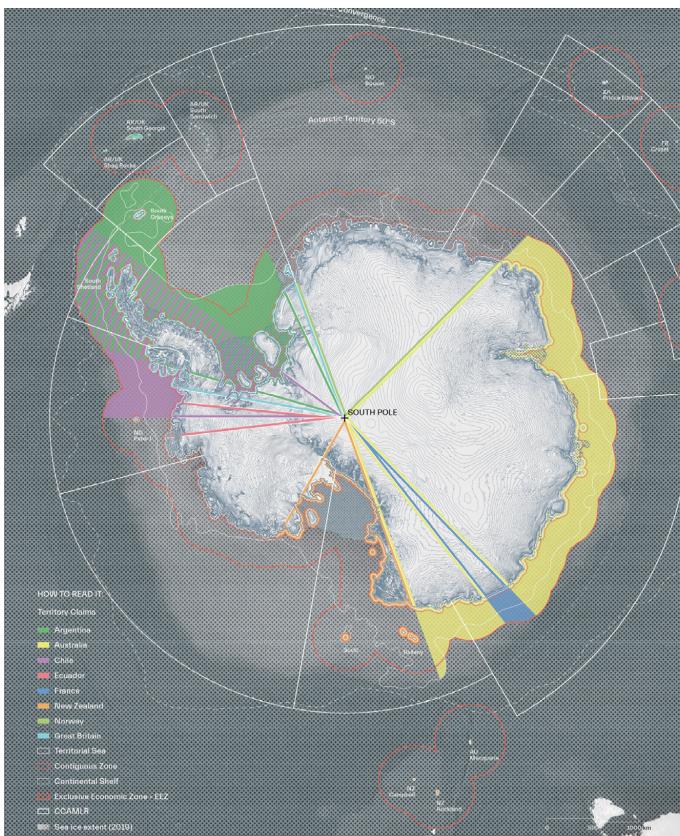
Antarctic Resolution

Biennale di Architettura di Venezia 2021

This project is in collaboration with UNLESS/Giulia Foscari, and presents the collective research in the form of authored texts, photographic essays and data-based visual cartography/infographic, focusing on geopolitics, science and architecture.

Project leader and responsible for the data research, analysis and visualization of the Antarctica Cartography team.



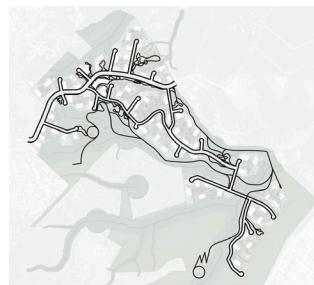
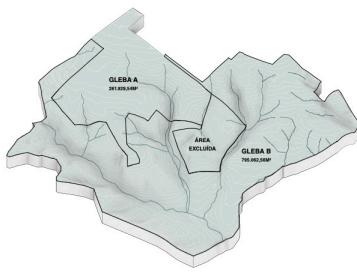


Mirante Taboquinha Masterplan

Brasília, Distrito Federal

Urban project with more than 795.000 sq.m. The masterplan provides housing, incorporates the environmental agenda, improves urban mobility (cycling infrastructure) and urban life by promoting economic and social development.

Project leader and responsible for analyzing urban typologies, transportation planning, green infrastructure, developing the strategic masterplan, concepts drawings, diagram, presentations and follow-up with the client.



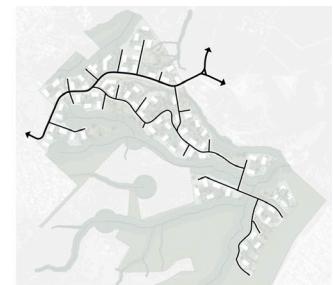
Pedestre

Circulação de pedestres como prioridade na implantação da infraestrutura vária, com calçadas largas integradas ao sistema de áreas livres e trilhas recreativas.



Ciclistas

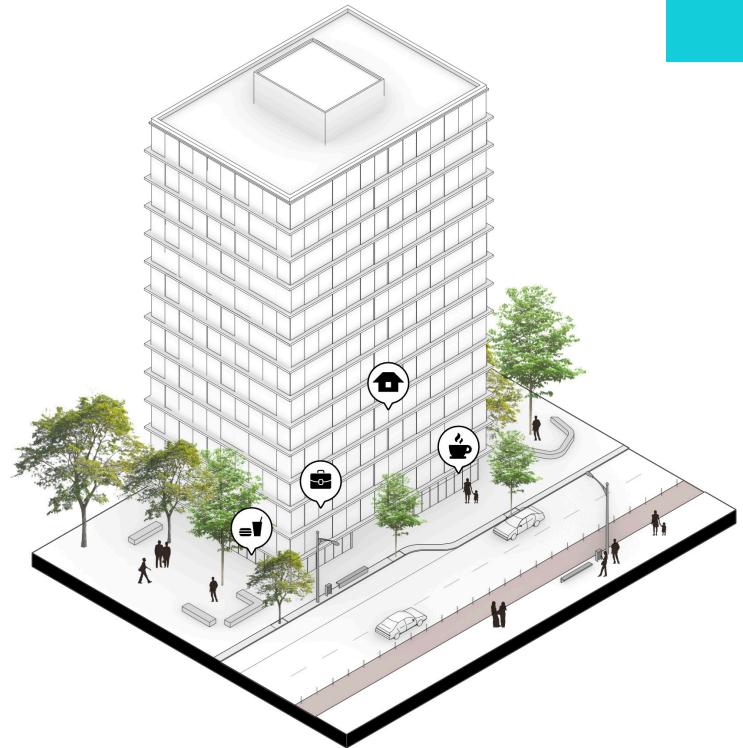
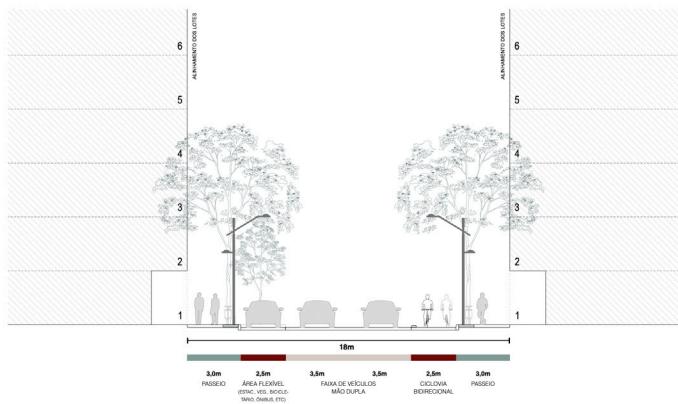
Implantação de sistema cicloviário integrado a circulação principal do empreendimento e com acesso às principais áreas de parques e praças.



Carros

Infraestrutura vária com velocidade limitada nas vias de acesso aos lotes e prioridade na mobilidade ativa.

15°47'38"S
47°52'58"W



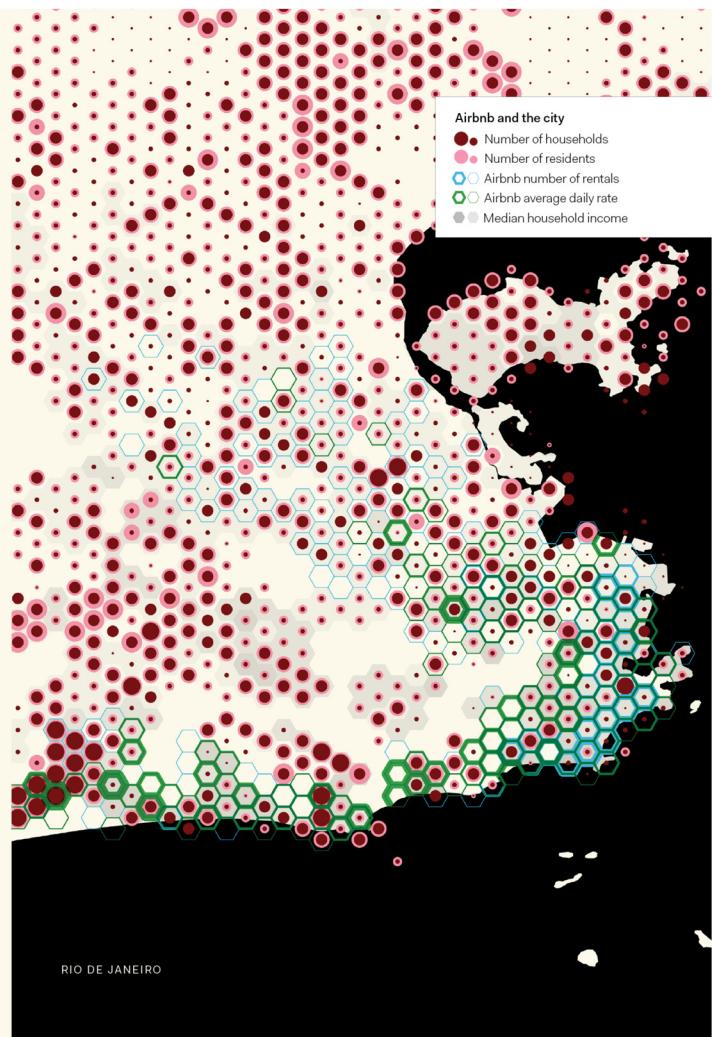
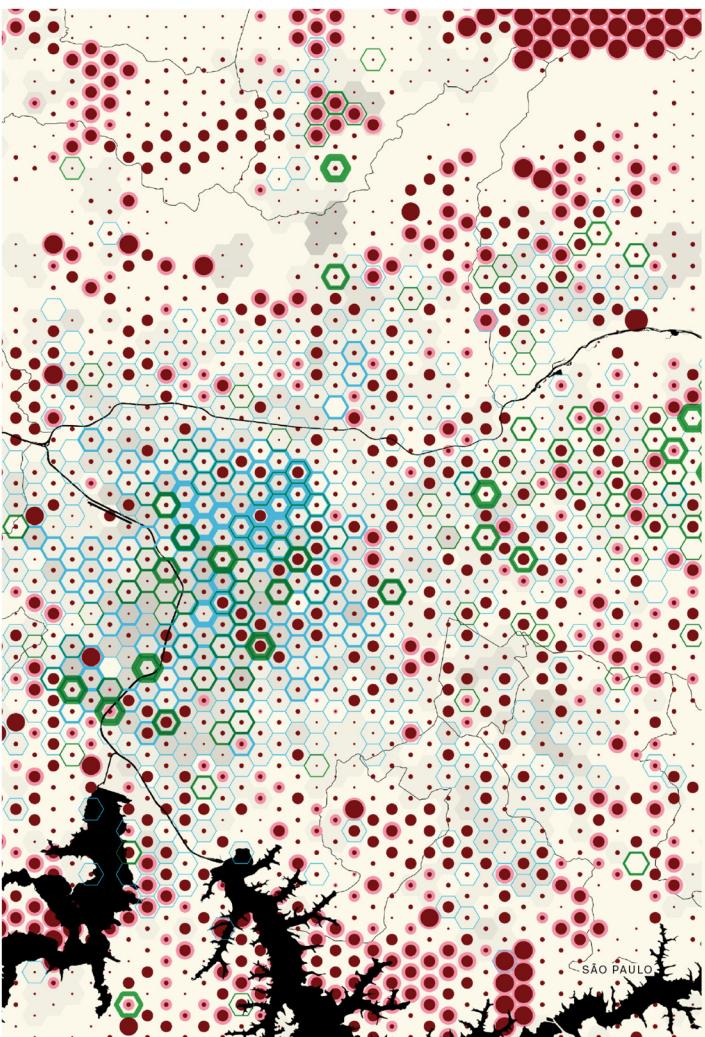
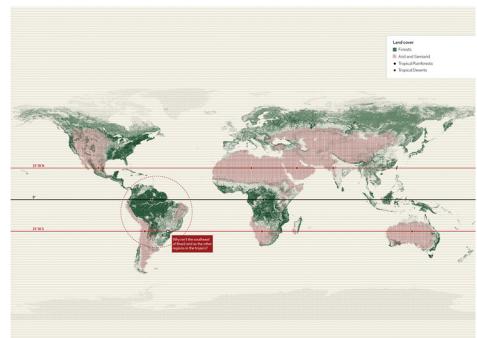
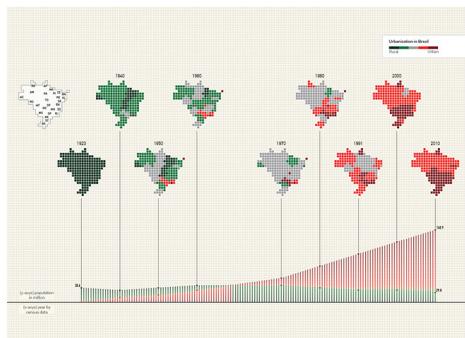
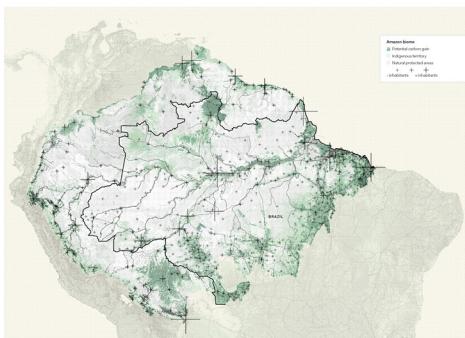
Mapping urban data

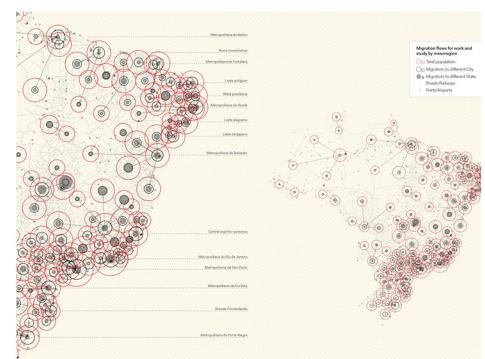
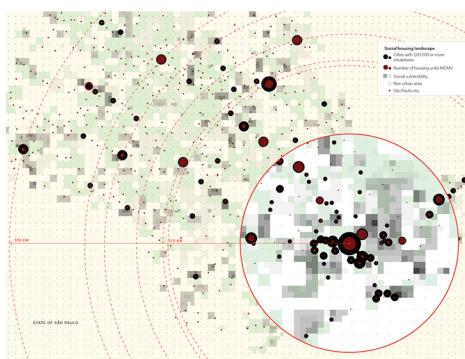
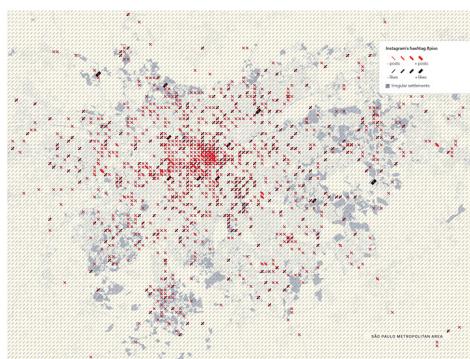
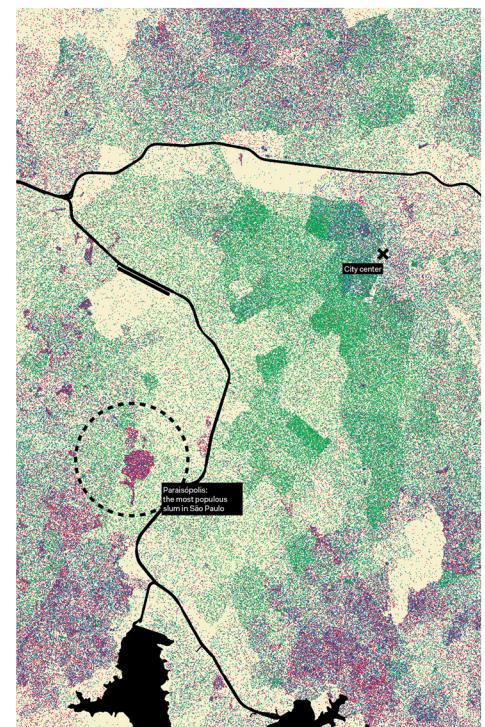
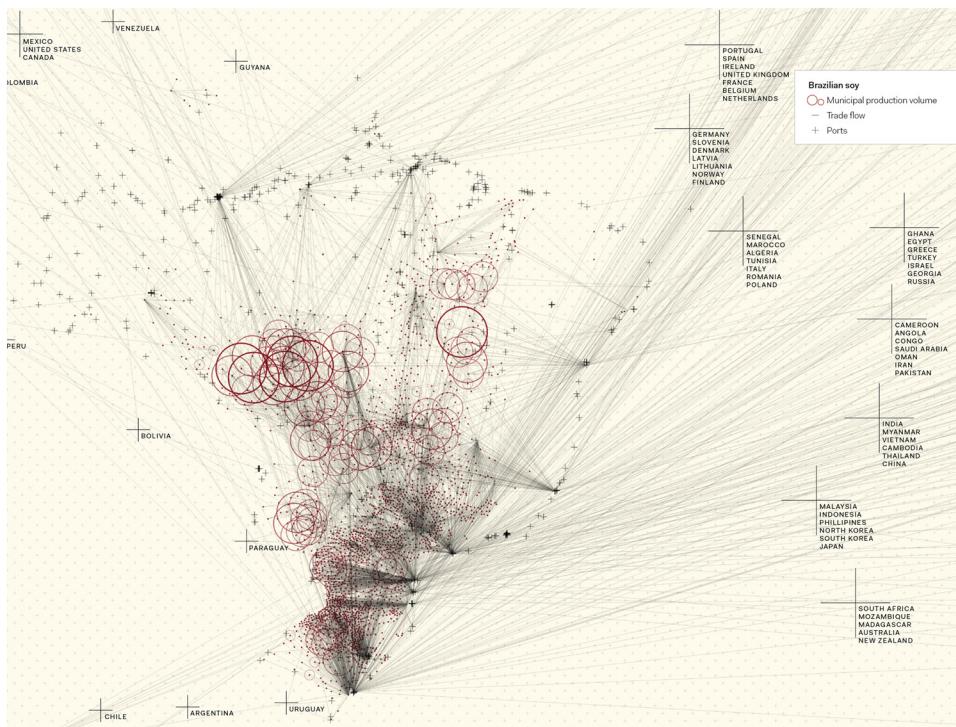
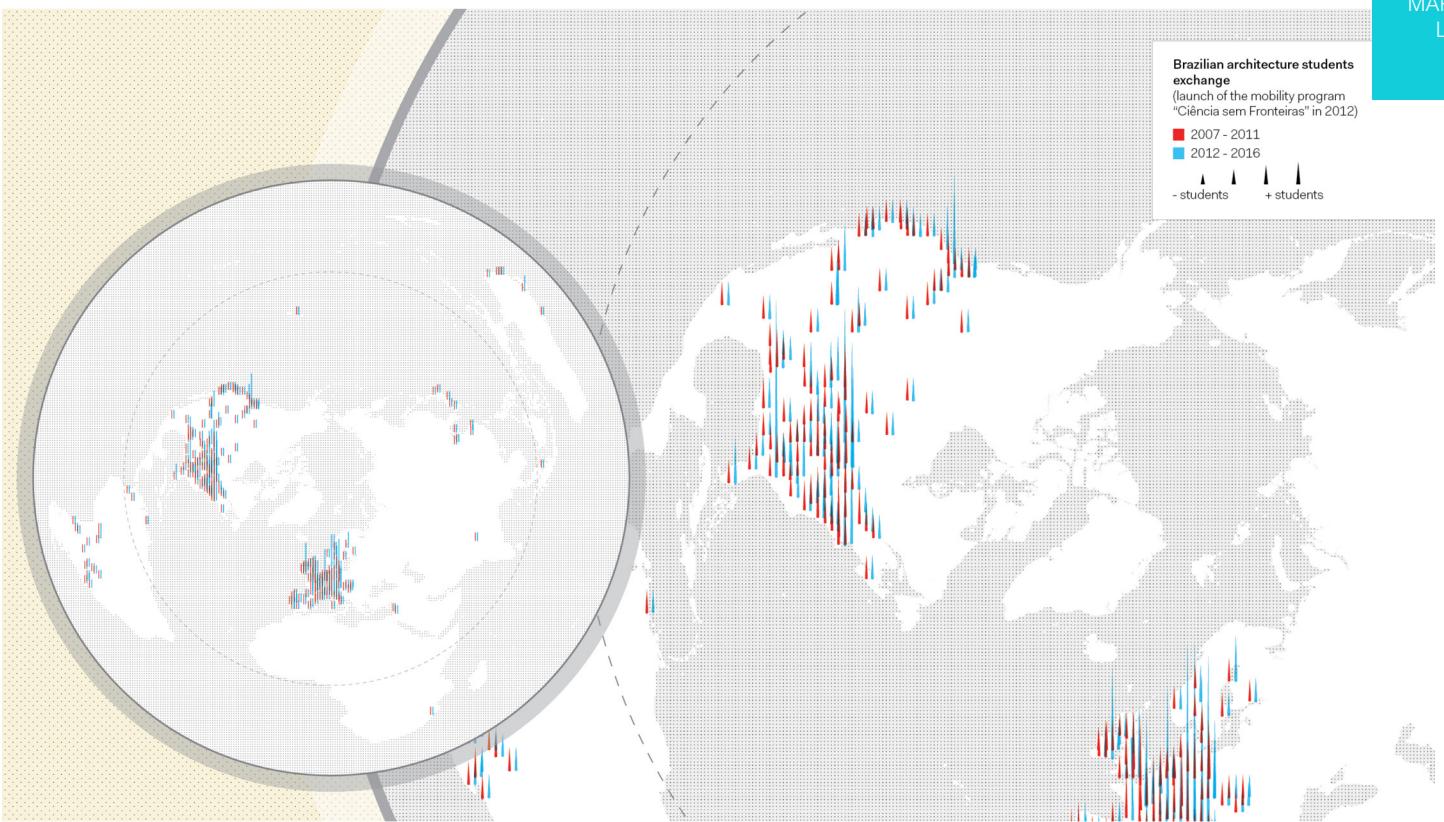
Brazilian Pavilion at Biennale di Architettura di Venezia 2018

This case study proposes a series of 10 maps with the theme “Walls of Air” developed and designed for the Brazilian Pavilion Catalogue at the Venice Biennale. This project was created as a complementation of the main exhibition maps as a way of visualizing different forms of “Walls” resulted from the Brazil’s urbanization processes.

Responsible for developing all the research about each map, data compilation and analysis, map design and presentation.

Work developed by:
<http://www.mappinglab.me>
(Founder & Urban data specialist)





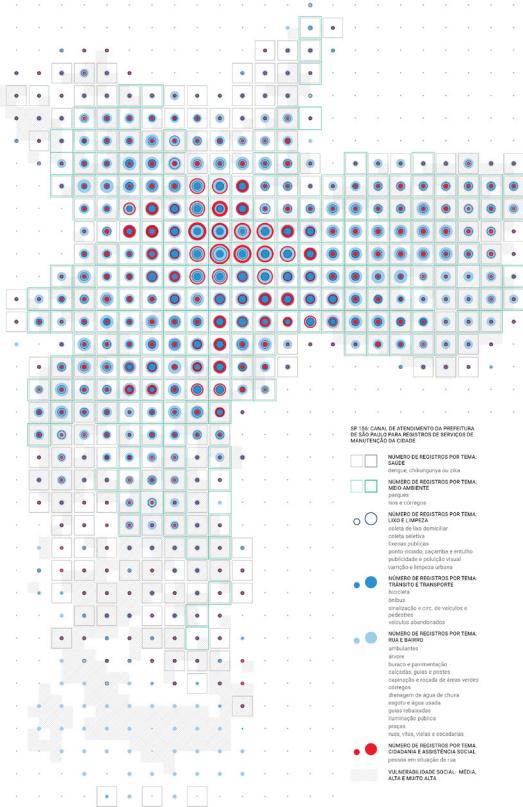
Citizen 156

International Architecture Biennale of São Paulo 2019

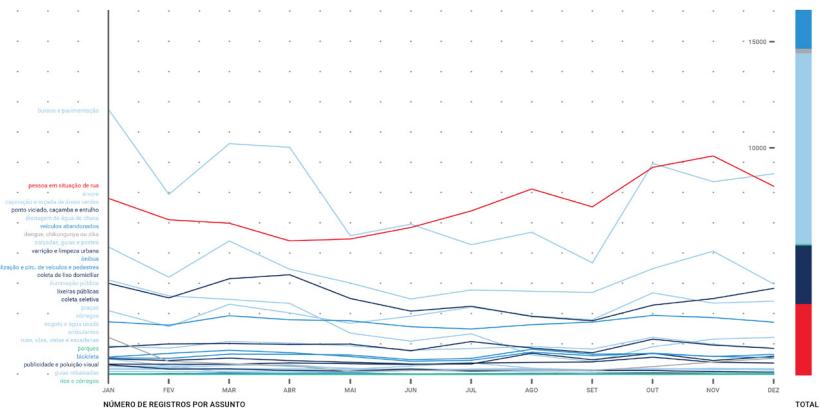
2019 Biennale proposes the theme Everyday, the most trivial dimension of reality to investigate architecture and the city environment, crossing different perspectives, scales and boundaries. The project Citizen 156, proposes a

reflection about the city maintenance through a period of time, focusing on São Paulo city. The project aims to explore the invisible layer of care routines for the urban environment and its vulnerabilities of social inequality and collective spaces.

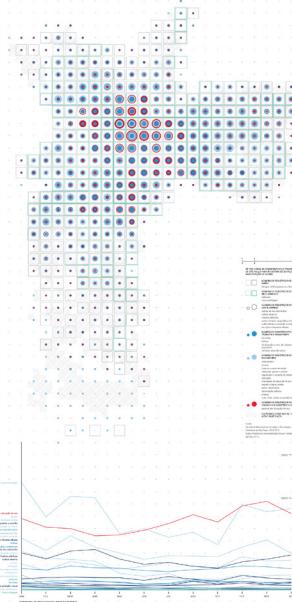
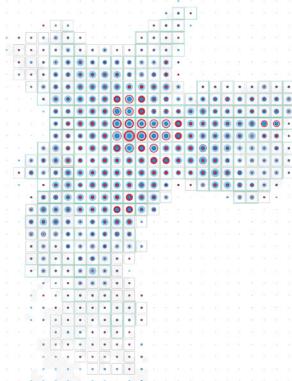
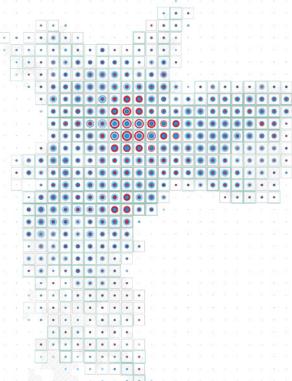
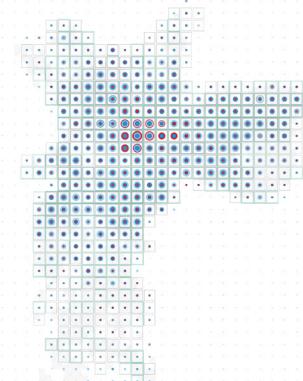
Responsible for the entire project, from its conception, development and presentation.



Mapeamento de **472.594** registros de atendimento do canal SP 156, referentes a **26 assuntos**, de **6 temas**. Representa **63,2% de um total de 747.555** registros no ano.



Fonte:
Secretaria Municipal de Inovação e Tecnologia - SMIT,
Prefeitura de São Paulo, 2015-2018.
Índice Paulista de Vulnerabilidade Social, Fundação
SEADE, 2010.

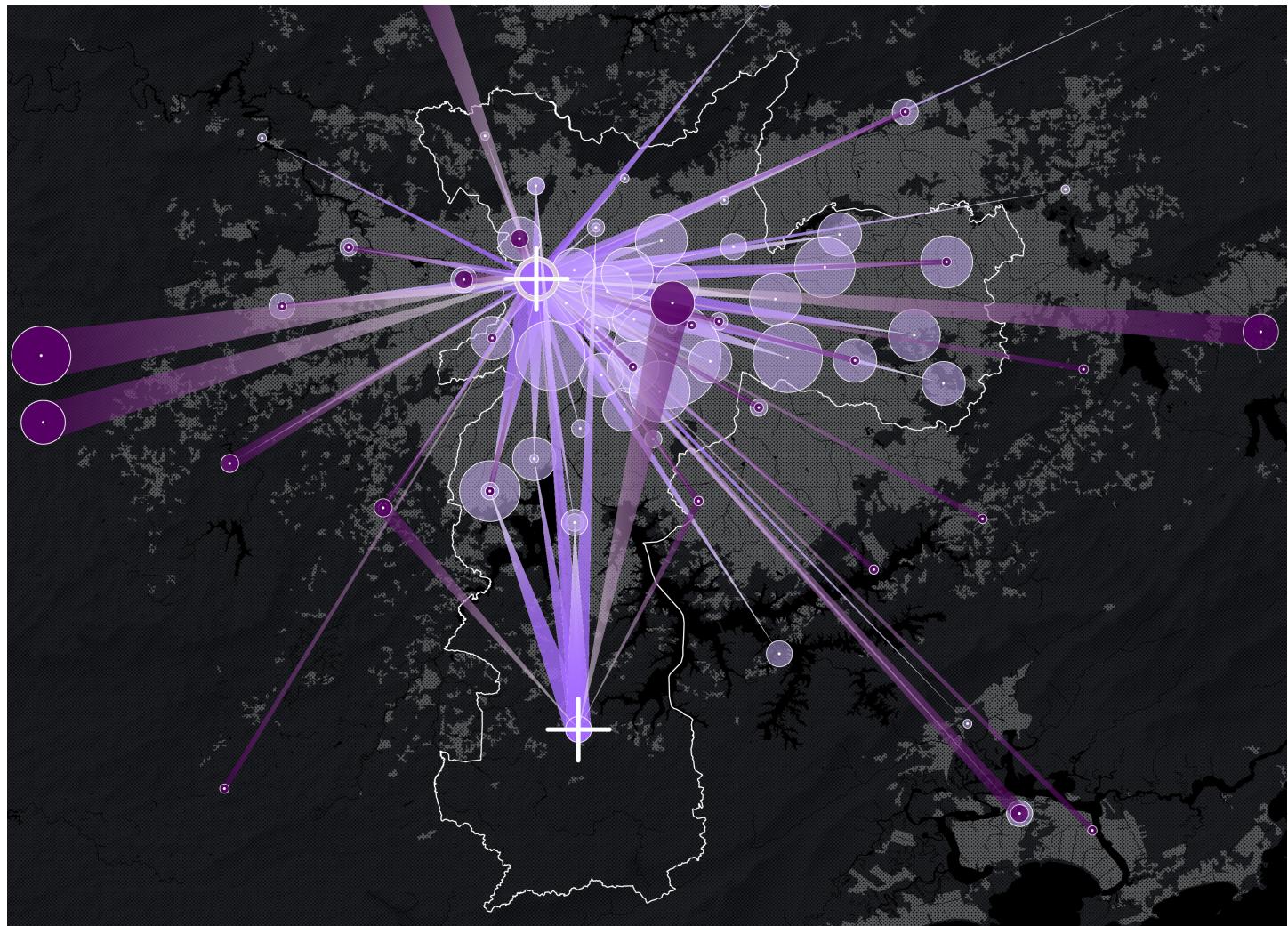
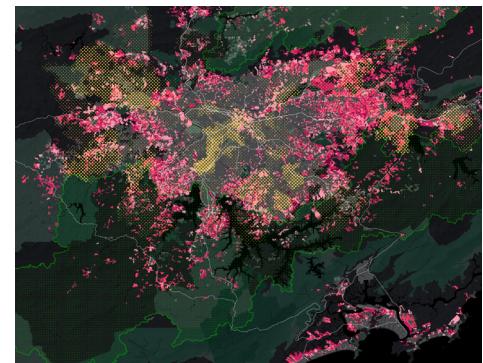
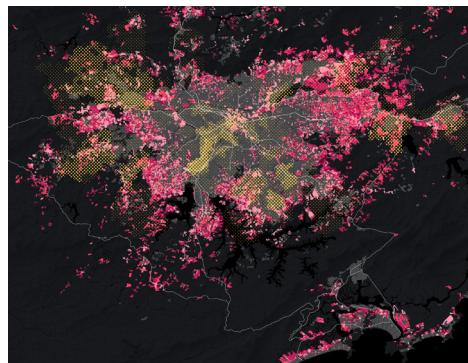
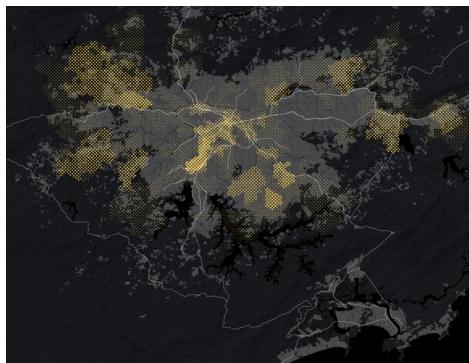


Food for Thought selects urban and periurban agriculture in São Paulo as an object of study in its integrative dimension of aspects of environmental preservation, food and nutritional security and local socioeconomic development. It aims to promote social environmental sustainability of rural territory through strengthening local

agriculture.

Responsible for the research and development of all cartographies and urban analysis.

Work developed in collaboration with Fernando de Mello Franco, Anna Kaiser, Leandro Lima, Marcela Ferreira and Marta Bogaia.



PIU Canindé - Portuguesa

São Paulo

23°32'51"S
46°38'10"W

The urban intervention project Canindé - Portuguesa, with more than 90,000 square meters, pursuit the redevelopment of underutilized or unused key central areas in order to fight against socio-territorial inequalities.



project as an anchor of development and valorization

30%

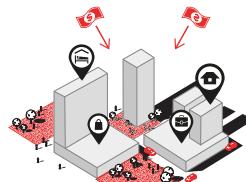
The masterplan provides housing opportunities near downtown, incorporates the environmental agenda, improves urban mobility and urban life by promoting economic and social development.



integrated projects that consolidate the new centrality

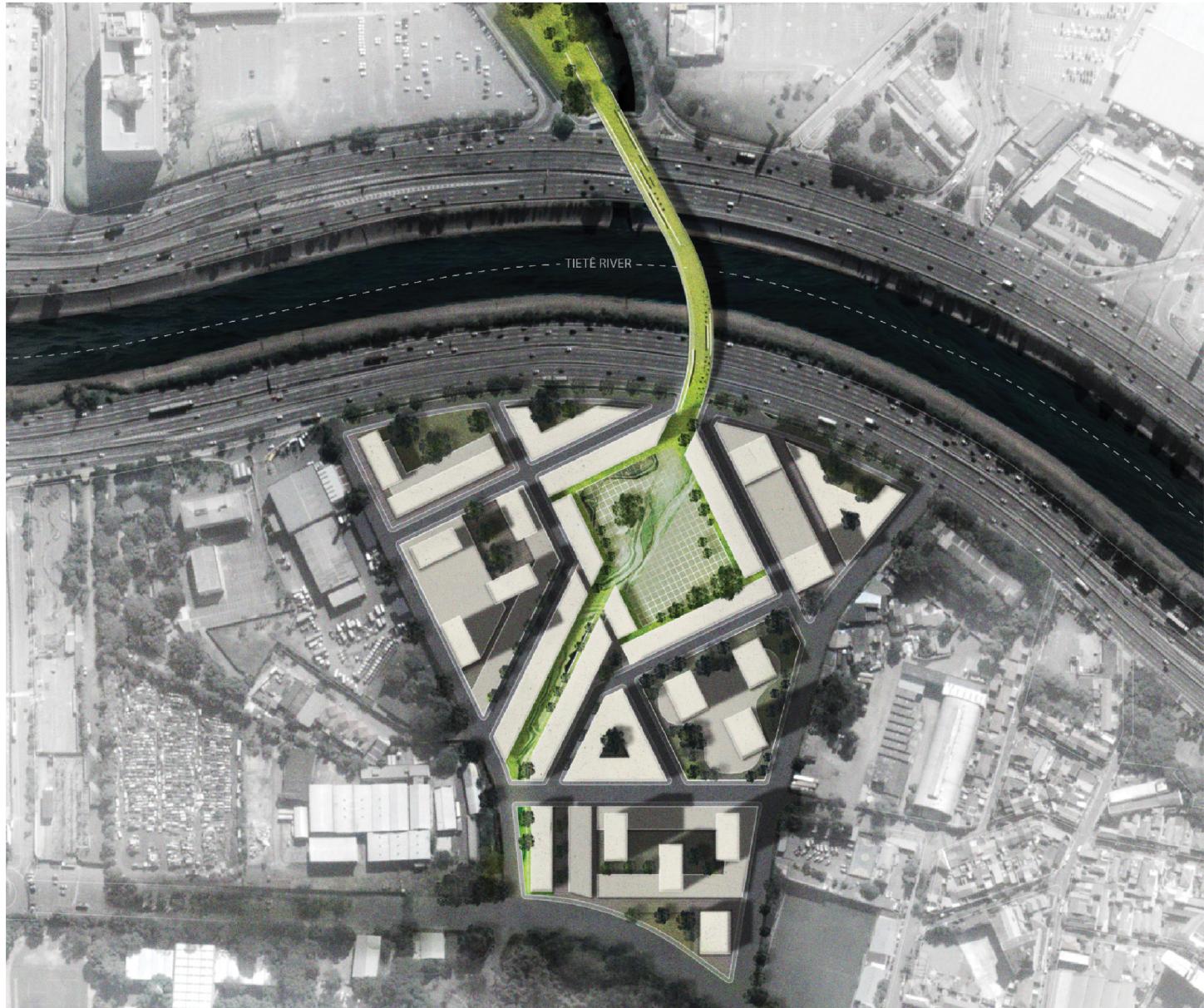
50%

Responsible for analyzing urban typologies, transportation planning, green infrastructure, macrodrainage system, developing the strategic masterplan, concepts drawings, diagrams, presentations and follow-up with the client.



new businesses and activities linked to public spaces

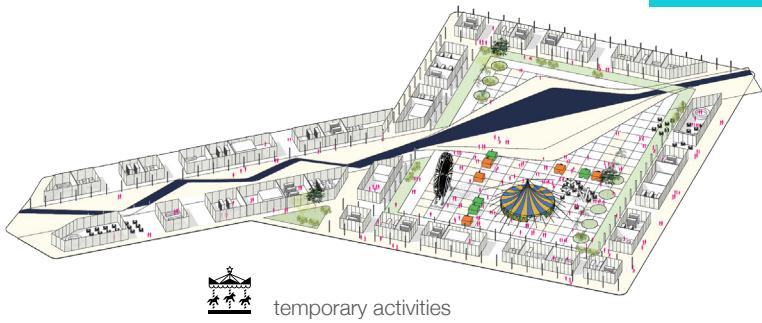
20%



New centrality:
Urban piazza as a flexible
and publicspace



green fairs



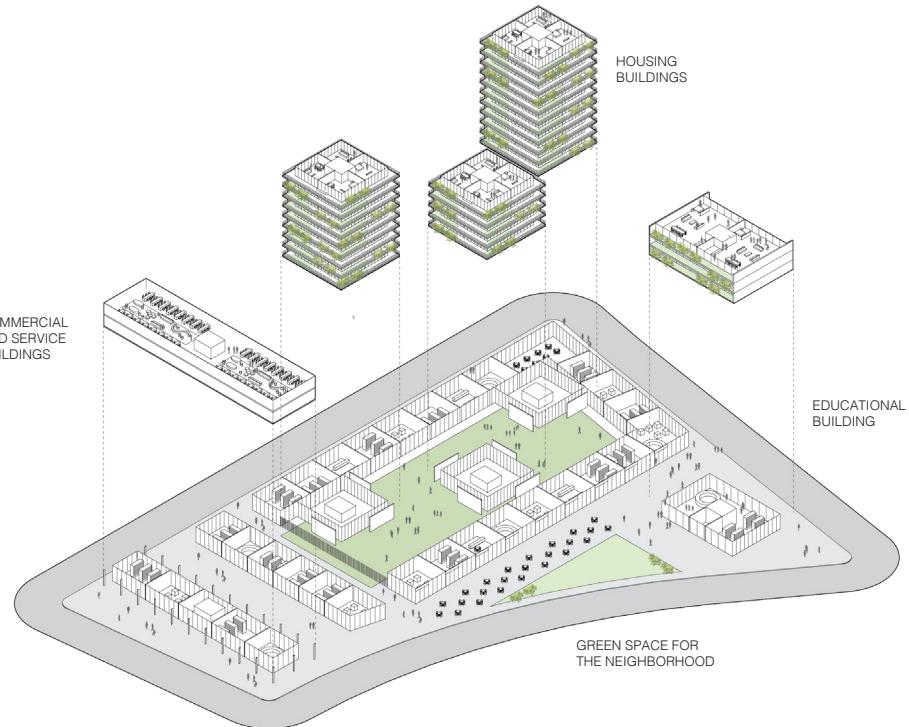
temporary activities

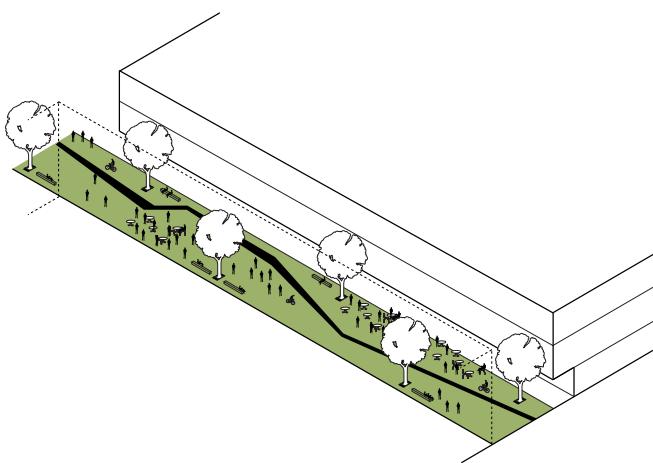


pocket events

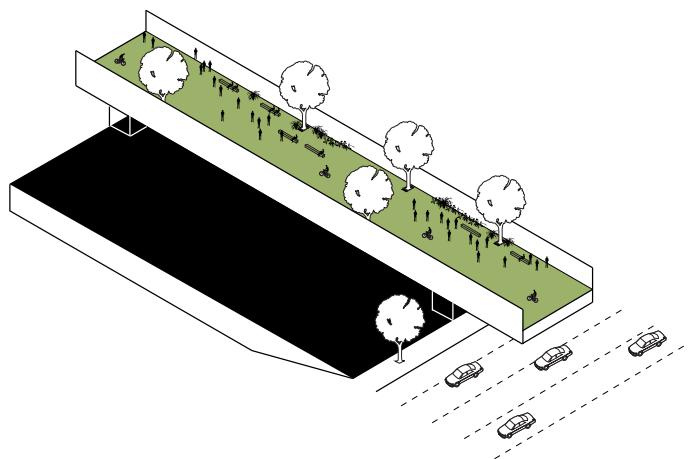


big shows

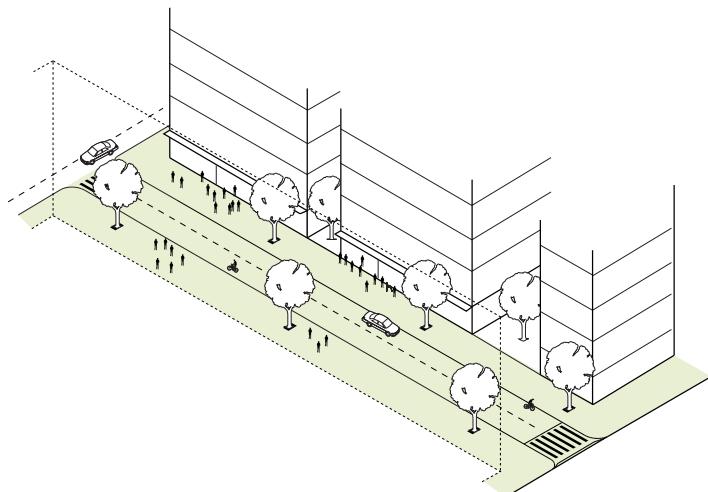




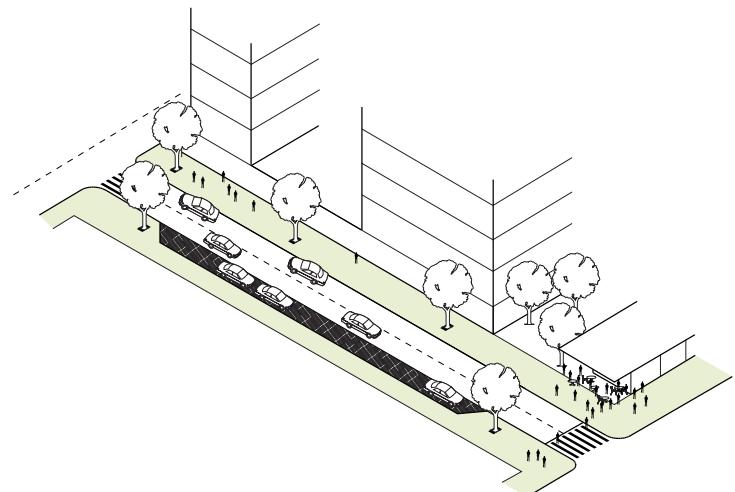
BOULEVARD
COMO GRANDE EIXO DE PASSEIO DE PEDESTRES
+ CICLOVIA



TRANSPOSIÇÃO
ARTICULAÇÃO EMPREENDIMENTO - PARQUE DA
JUVENTUDE



VIAS LOCAIS INTERNAS DO EMPREENDIMENTO -
PROPOSTA VIAS COMPARTILHADAS COM PAVIMENTO
CONTÍNUO PASSEIO



NOVAS VIAS LOCAIS LATERAIS
INTERFACE E CONEXÃO COM ENTORNO



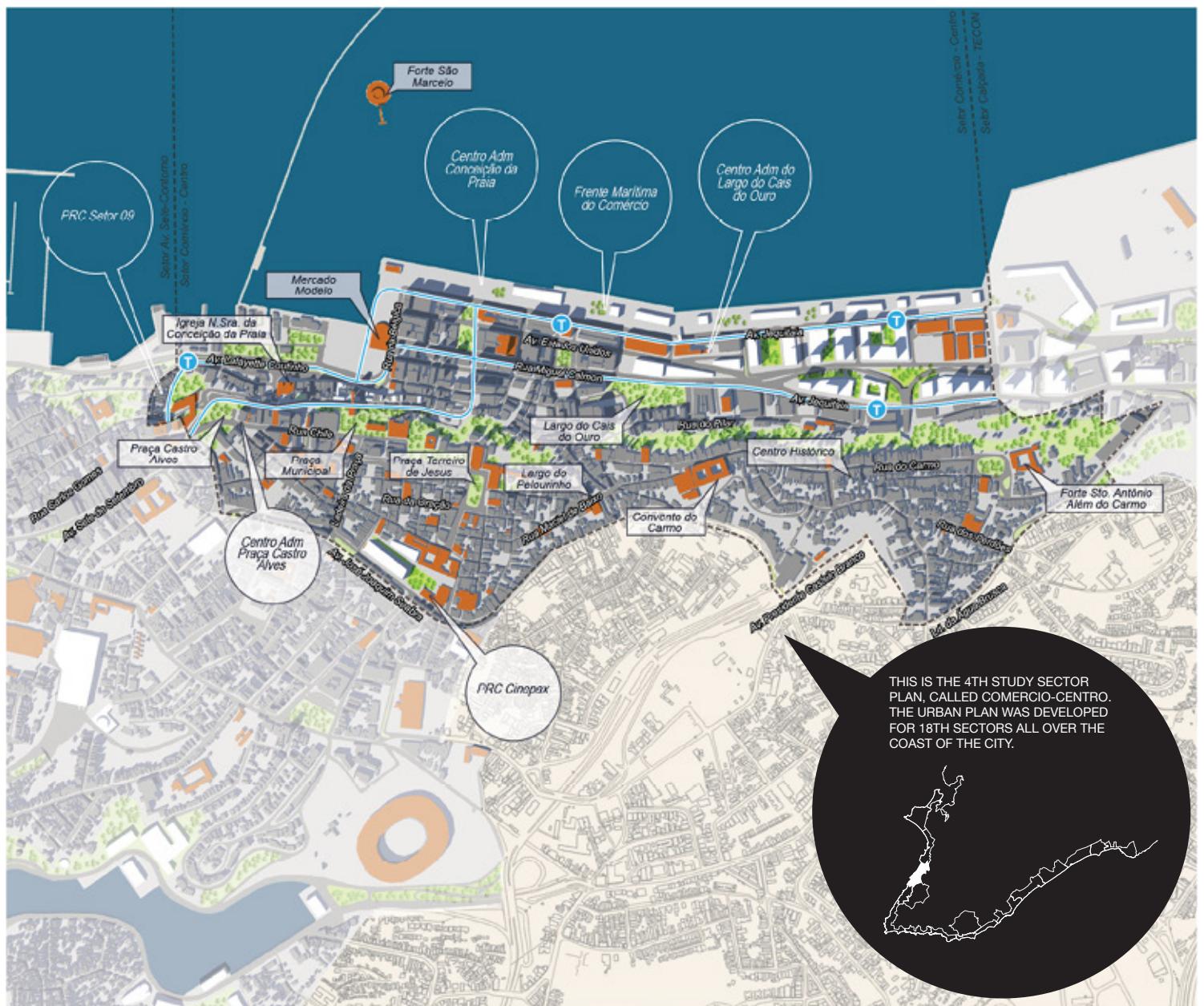
Salvador Coast Urban Development Plan

Salvador, Bahia

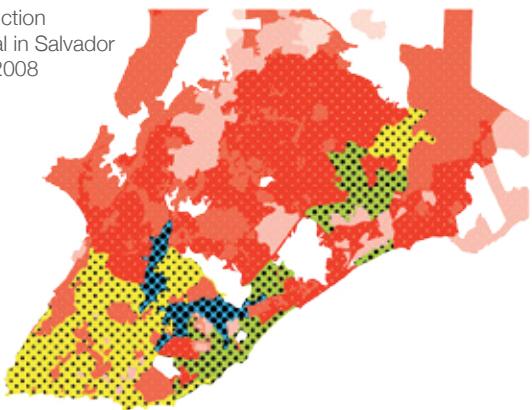
The Urban Plan was developed focusing on the Itapagipe Peninsula, Old Downtown and the Atlantic Coast of Salvador, with 2 400ha. The plan sets the urban transformation for this territory based on its relationship with the preexisting. It's involved the construction of new centralities in the city, which guides the development of different activities and mixed-use by associating and complimenting the existing infrastructure.

Responsible for analyzing urban typologies and transportation planning, developing the masterplan and sector-specific plans, concepts drawings, diagrams, presentations and editorial design.

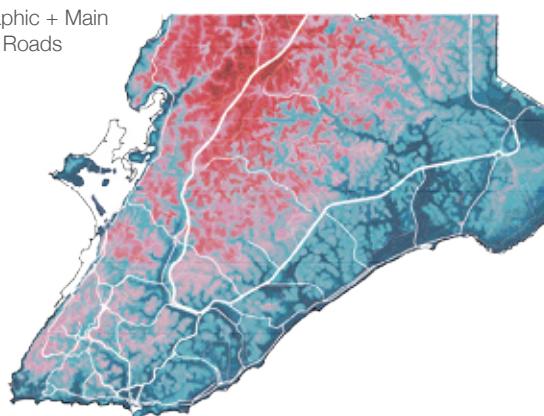
Population Growth
IBGE, 2000-2010



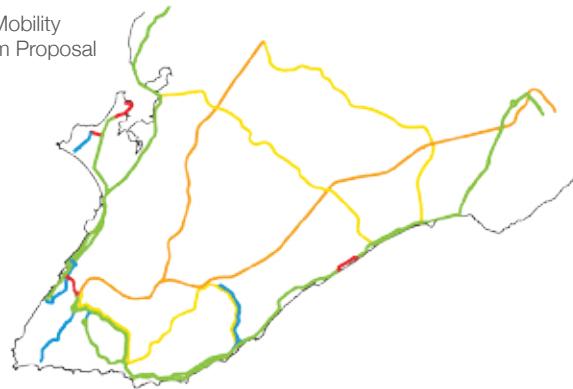
Construction Potential in Salvador
PDDU 2008



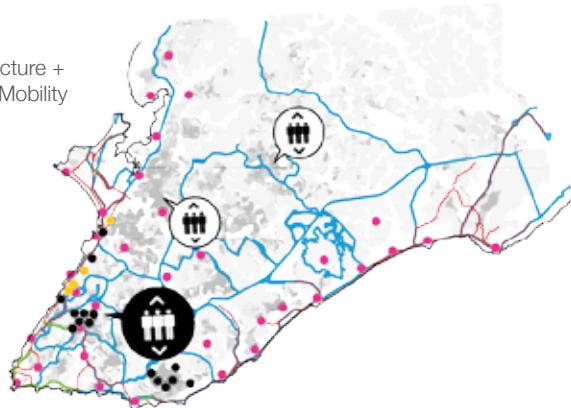
Topographic + Main Existing Roads



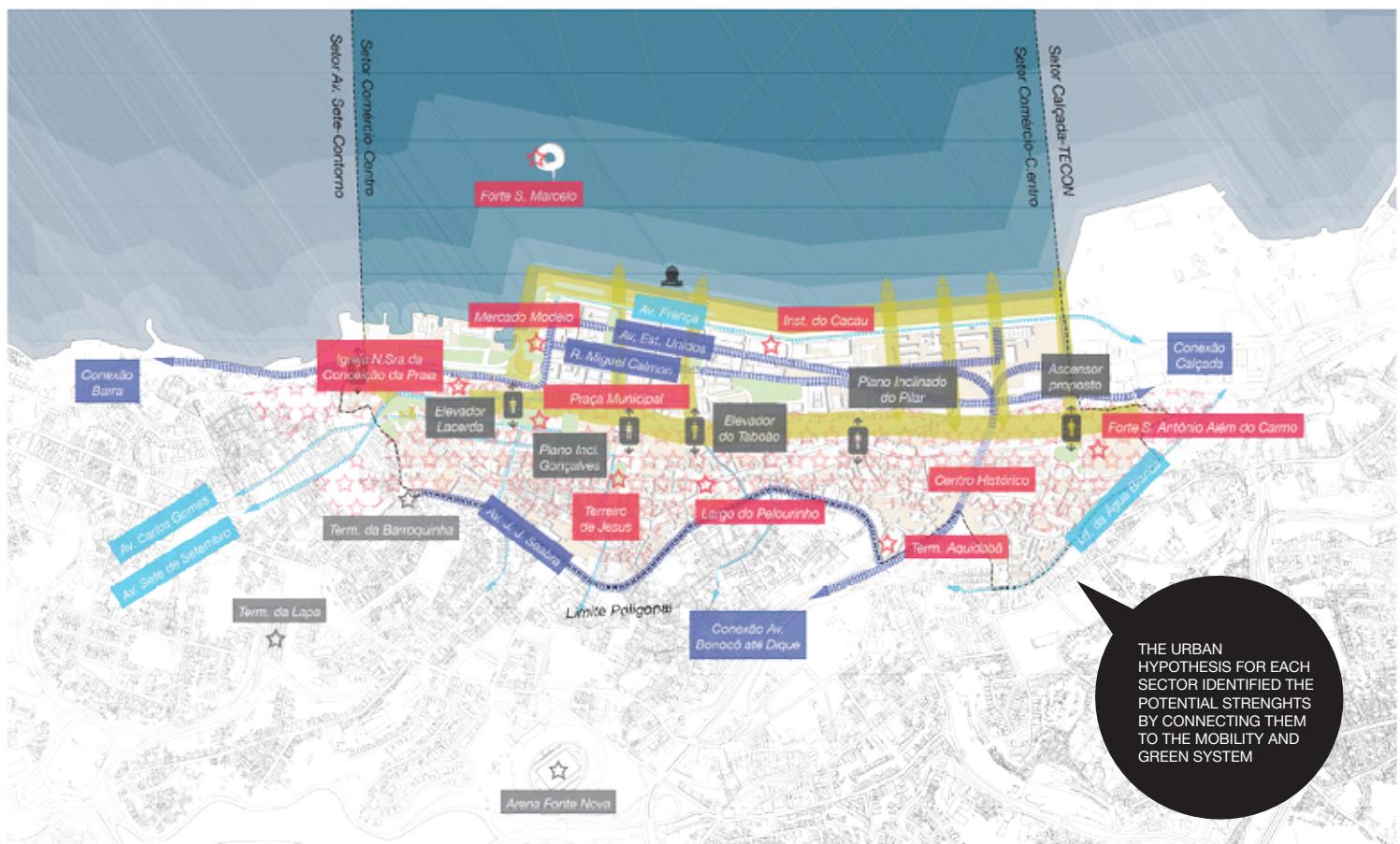
Main Mobility System Proposal



Cycling infrastructure + Vertical Mobility



Urban hypothesis for
Comércio-Centro sector



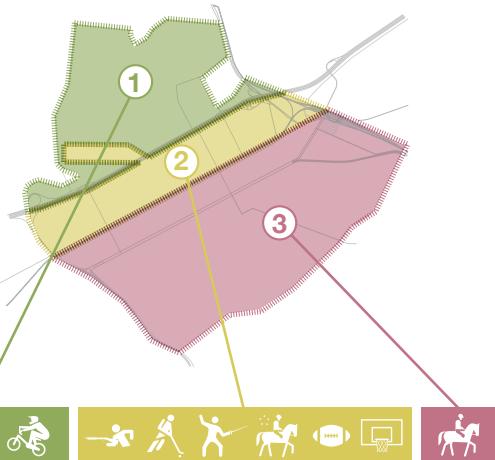
Rio2016 Deodoro Olympic Park

Rio de Janeiro

The Deodoro Complex is located in the west side of Rio de Janeiro, it's the biggest olympic park in Brazil, with 200ha. It includes 11 olympic sports facilities and will also offer one great legacy for the city and the neighboring communities, the X-Park, the second largest public park in the city.

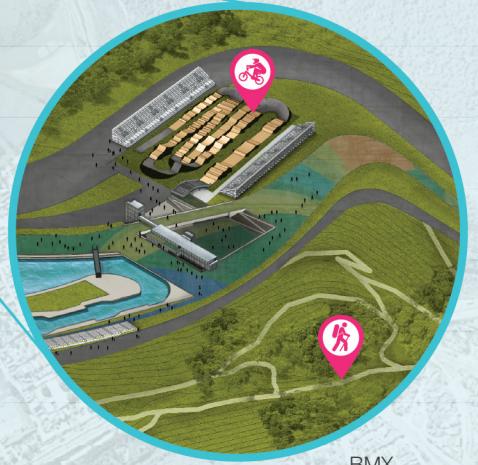
Responsible for developing the masterplan, illustrations, 3D models, concepts and technical drawings of BMX Olympic Centre (01), Canoe Slalom Stadium (01), X-Park facilities (01), National Hockey Centre (04). Also developed diagrams, presentations and visual content of the Youth Arena (03) and the National Shooting Centre (02).

Deodoro Sports Zonning



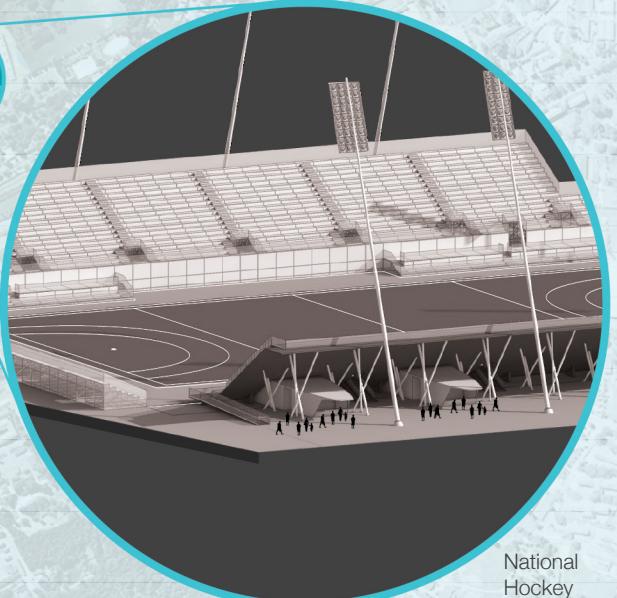
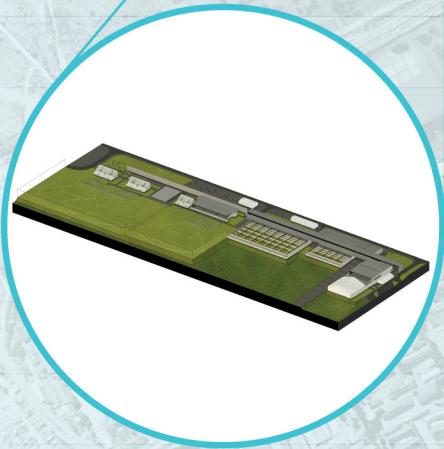
22°54'10"S
43°12'27"W

Canoe
Slalom
Stadium
and X-Park
facilities



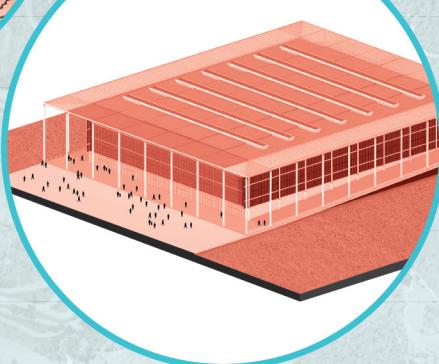
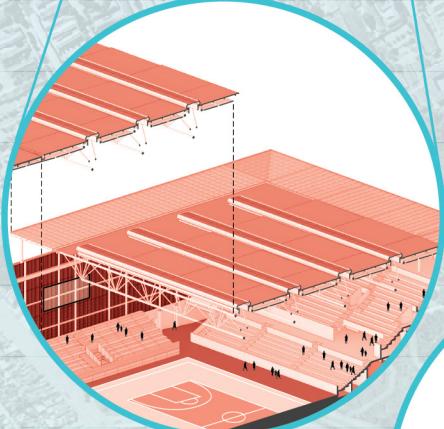
BMX
Olympic
Centre and
X-Park
facilities

National
Shooting
Centre



National
Hockey
Centre

Youth
Arena



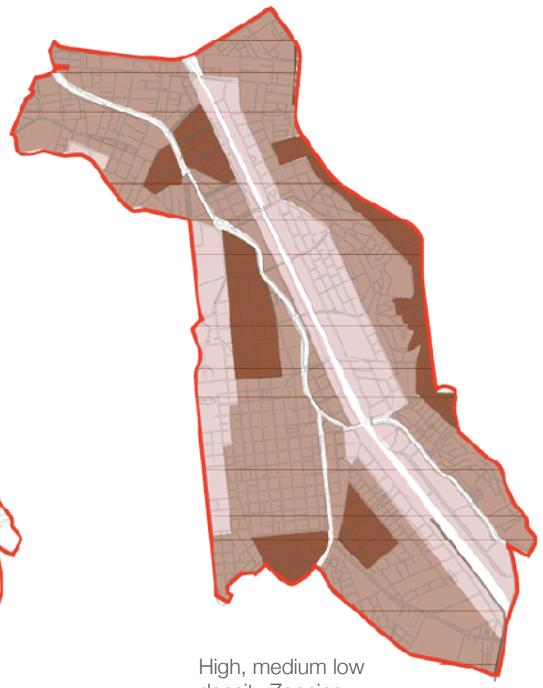
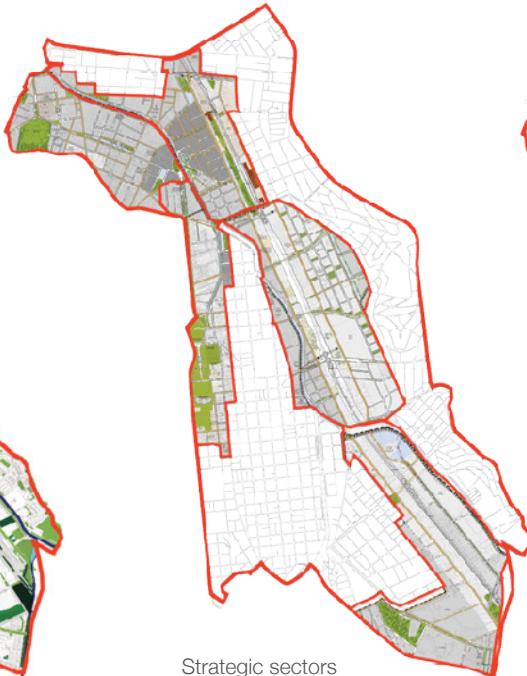
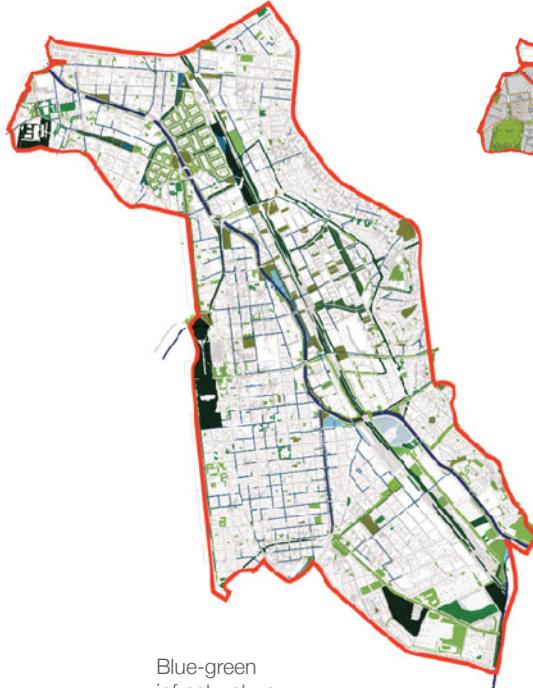
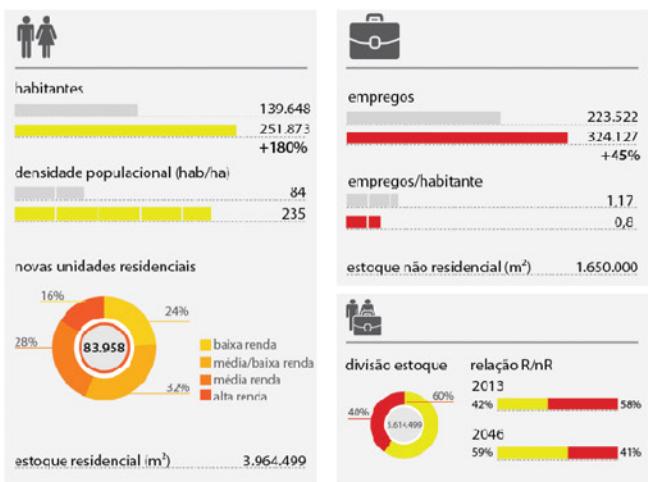
Mooca-Vila Carioca Urban Development Plan

São Paulo

Mooca-Vila Carioca plan was developed to guide the process of urban, economic and social transformations that are occurring in this central industrial region, with 1 600ha. The plan sets actions and integrated interventions to enhance the public infrastructure, such as mobility, blue-green infrastructure, urban rules and housing.

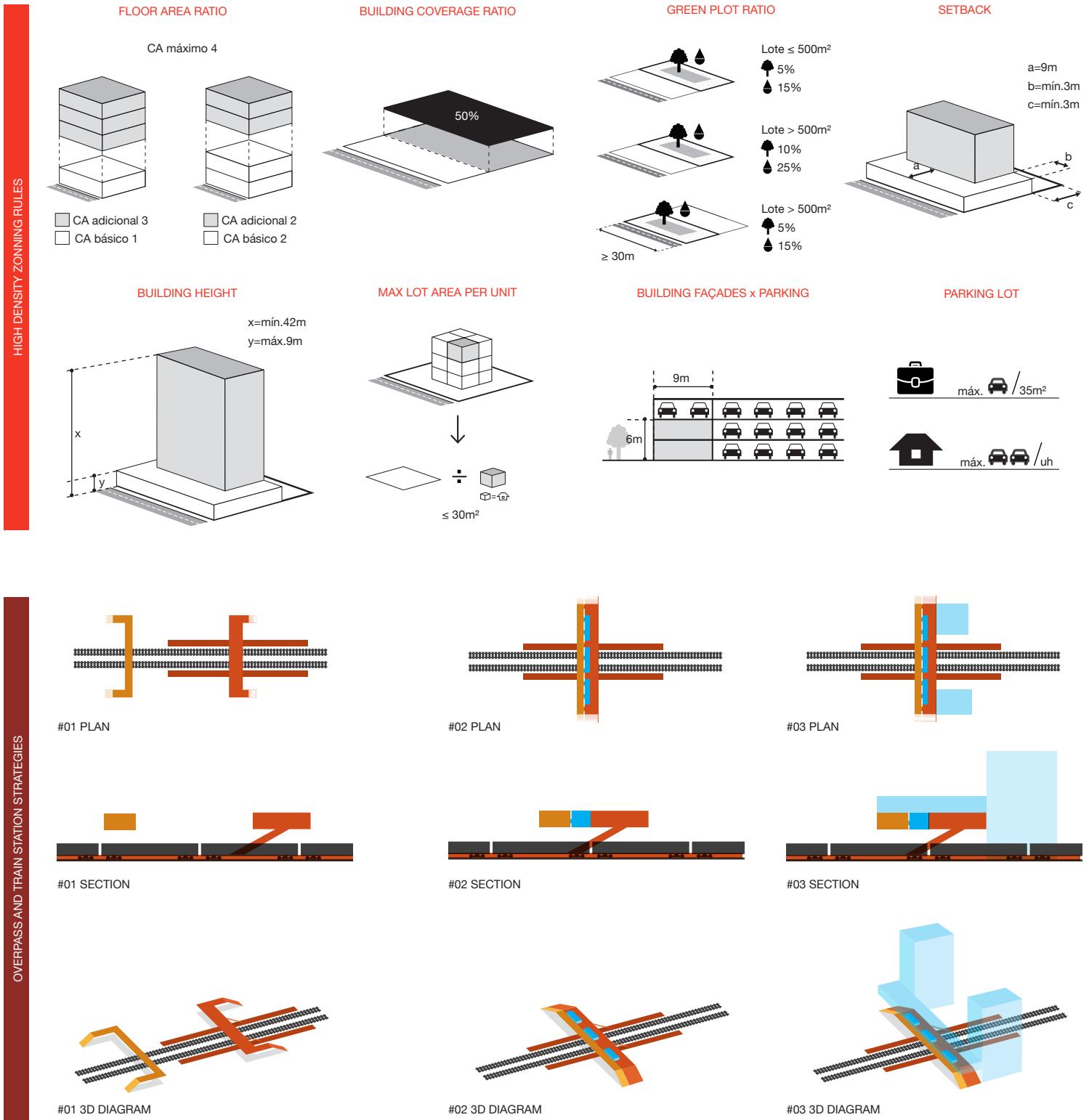
Responsible for analyzing urban typologies, transportation planning and blue-green infrastructure, developing the strategic masterplan, concepts and technical drawings, diagrams, 3D models, presentations, technical reports and follow-up technical environmental consultants.

Strategic Masterplan



Combination of Overpass and Train Station



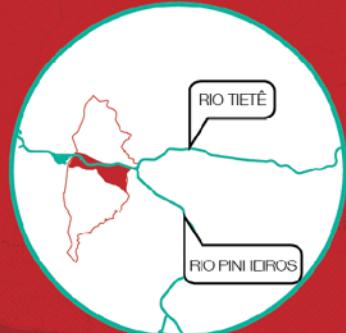


Osasco Tietê Urban Axis Areas Development Plan

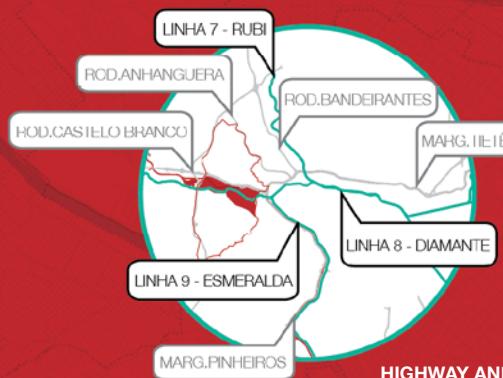
Osasco, São Paulo



This plan sets guidelines for the implementation of infrastructure and better use of Tietê Urban area by presenting concepts and strategies over a territory that can be renovated without losing their current qualities, especially the large concentration of economic activities.



MACRODRANAIGE NETWORK



HIGHWAY AND RAILWAY NETWORK

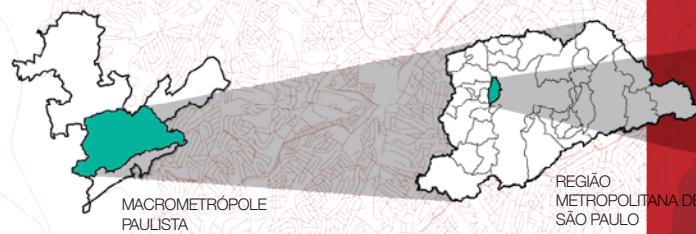
Responsible for analyzing urban typologies, transportation planning, blue-green infrastructure, developing the masterplan and sector specific plans, concept drawings, diagrams, 3D models, editorial concept definition and design.



RELATION WITH OTHER URBAN DEVELOPMENT PLANS

REGIONAL SCALE

LOCAL SCALE



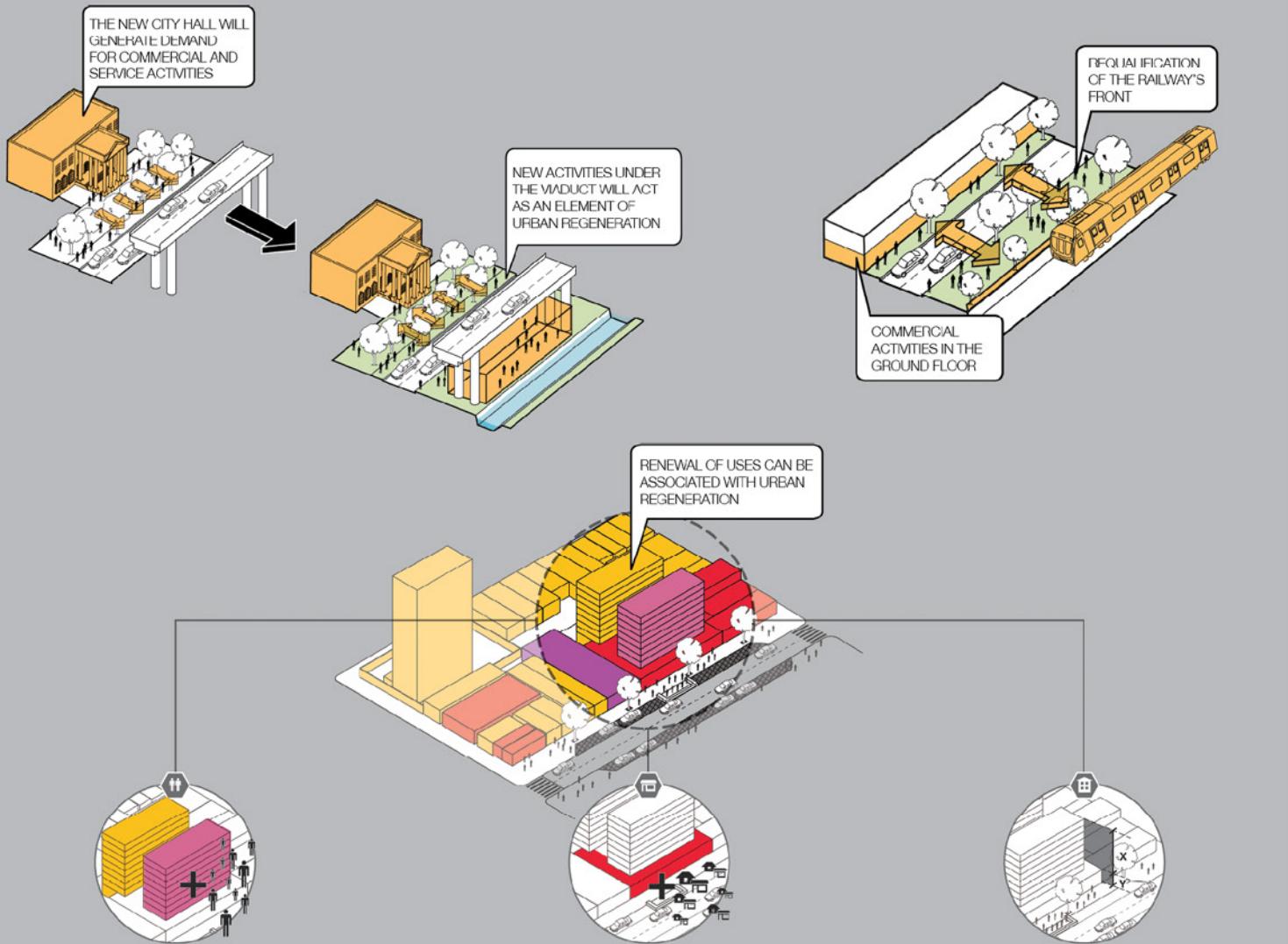
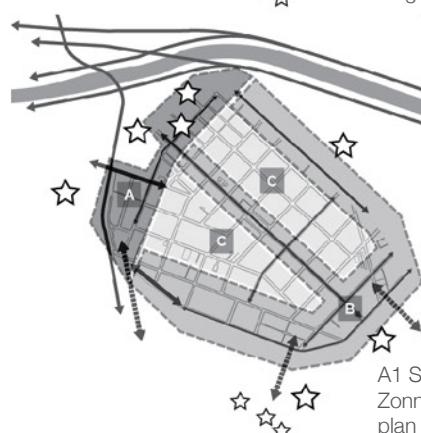
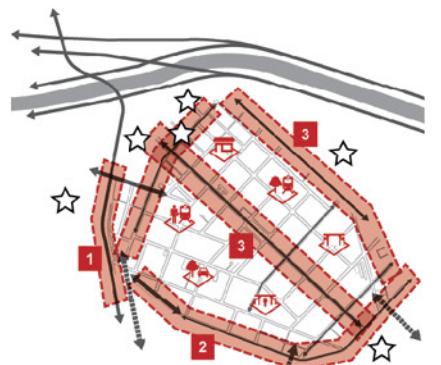
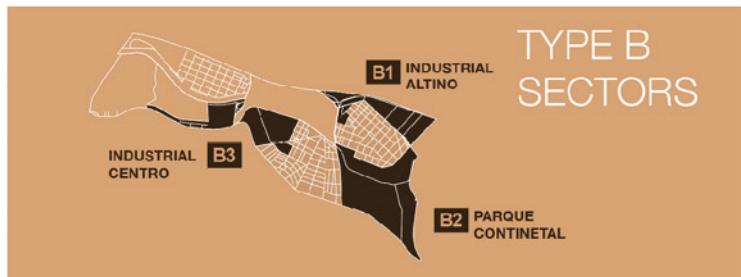
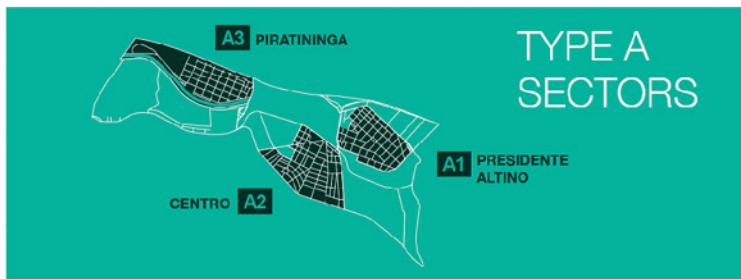
MACROMETRÓPOLE PAULISTA

REGIÃO METROPOLITANA DE SÃO PAULO



MUNICÍPIO DE OSASCO

ÁREA DO EIXO TIETÊ OSASCO



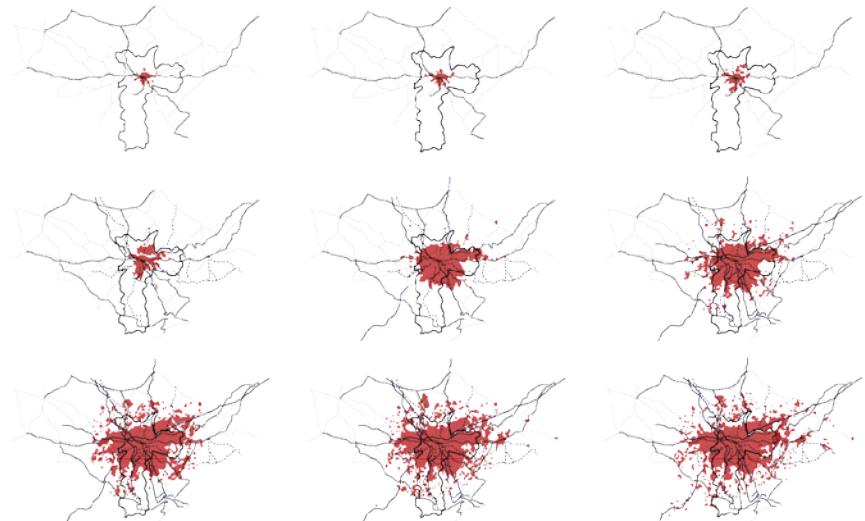
Arco Tietê Urban Development Strategies

São Paulo

The Arco Tietê urban project is the central area inside the Arco do Futuro program, which has as goal the urban development of the Tietê river neighboring districts, with more than 6 000ha. The strategy plan provides the urban redevelopment of industrial areas in order to bring housing and jobs closer. Another goal is to set new territorial centralities by complementing the preexisting infrastructure and its connection with the green network.

Responsible for analyzing urban typologies, transportation planning, green infrastructure, macrodrainage system, developing the strategic masterplan, concepts drawings, diagrams, presentations and follow-up technical environmental consultants.

Territorial evolution of São Paulo



Arco Tietê:
The articulation between the regional and local scales



Metropolitan urban rings



Metropolitan urban rings connections



São Paulo urban ring roads network

1



2

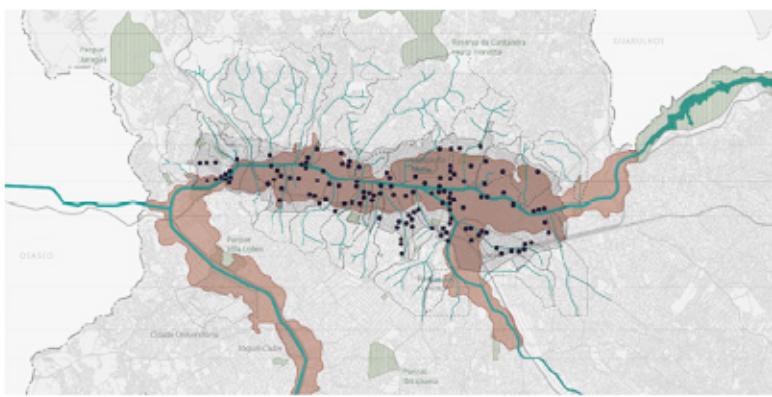


3

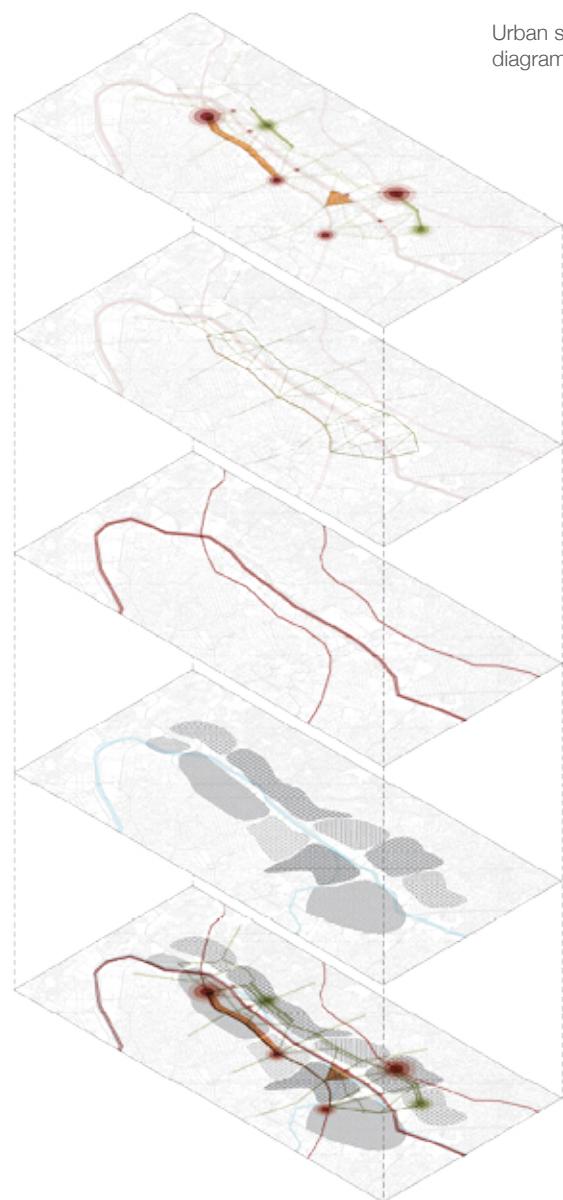


Conceptual diagrams:
1. Compact city and polycentric
2. Mixed-use
3. Mixed-income development

Urban analysis:
Macrodrainage system
Street network
Industrial zone



Urban strategies
diagram plan



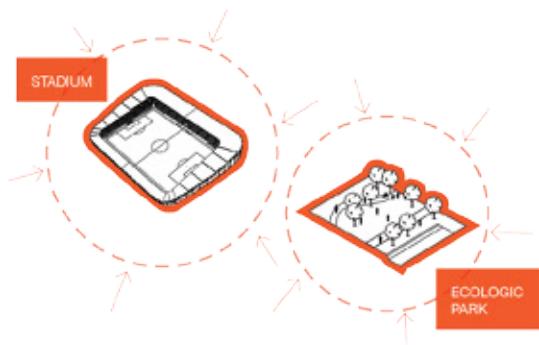
Rochdale Mixed-use Sports Complex Proposal

Osasco, São Paulo

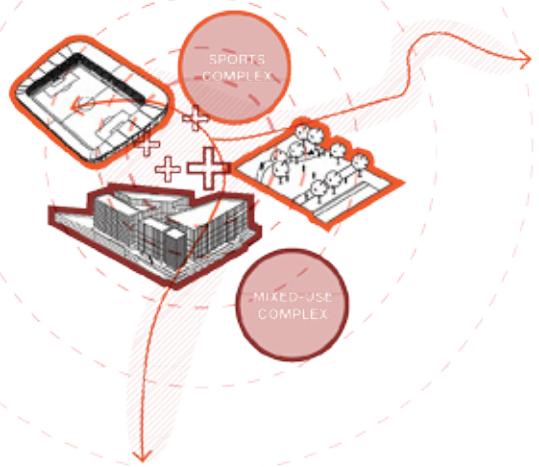
The proposal connects existing public areas to the project intervention (public+private sectors) to built a new centrality in the city of Osasco. In this way, the project matches a

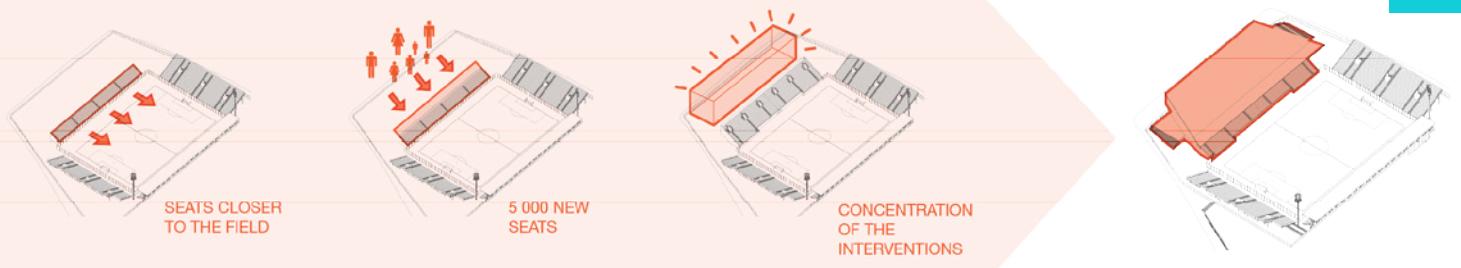
Sports and Mixed-use Complex with the blue-green pre-existing infrastructure, transforming this area in a strategic axis for the development of new activities and uses.

Responsible for analyzing blue-green infrastructure, urban fabric, developing the masterplan, concepts drawings, diagrams and presentations.

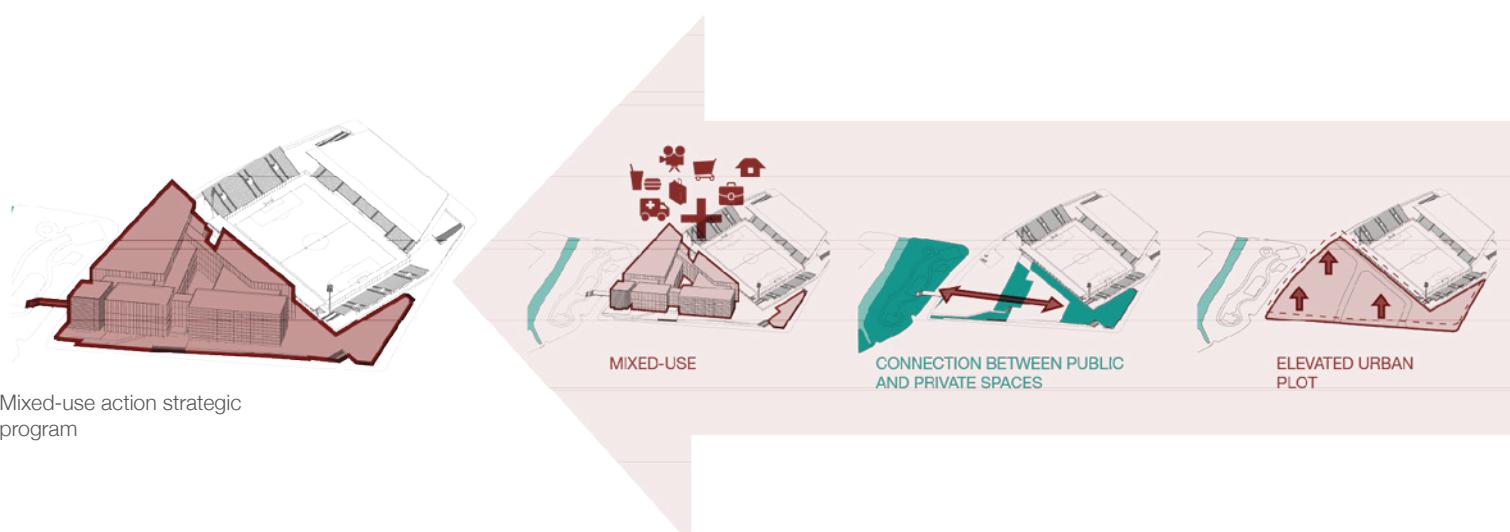
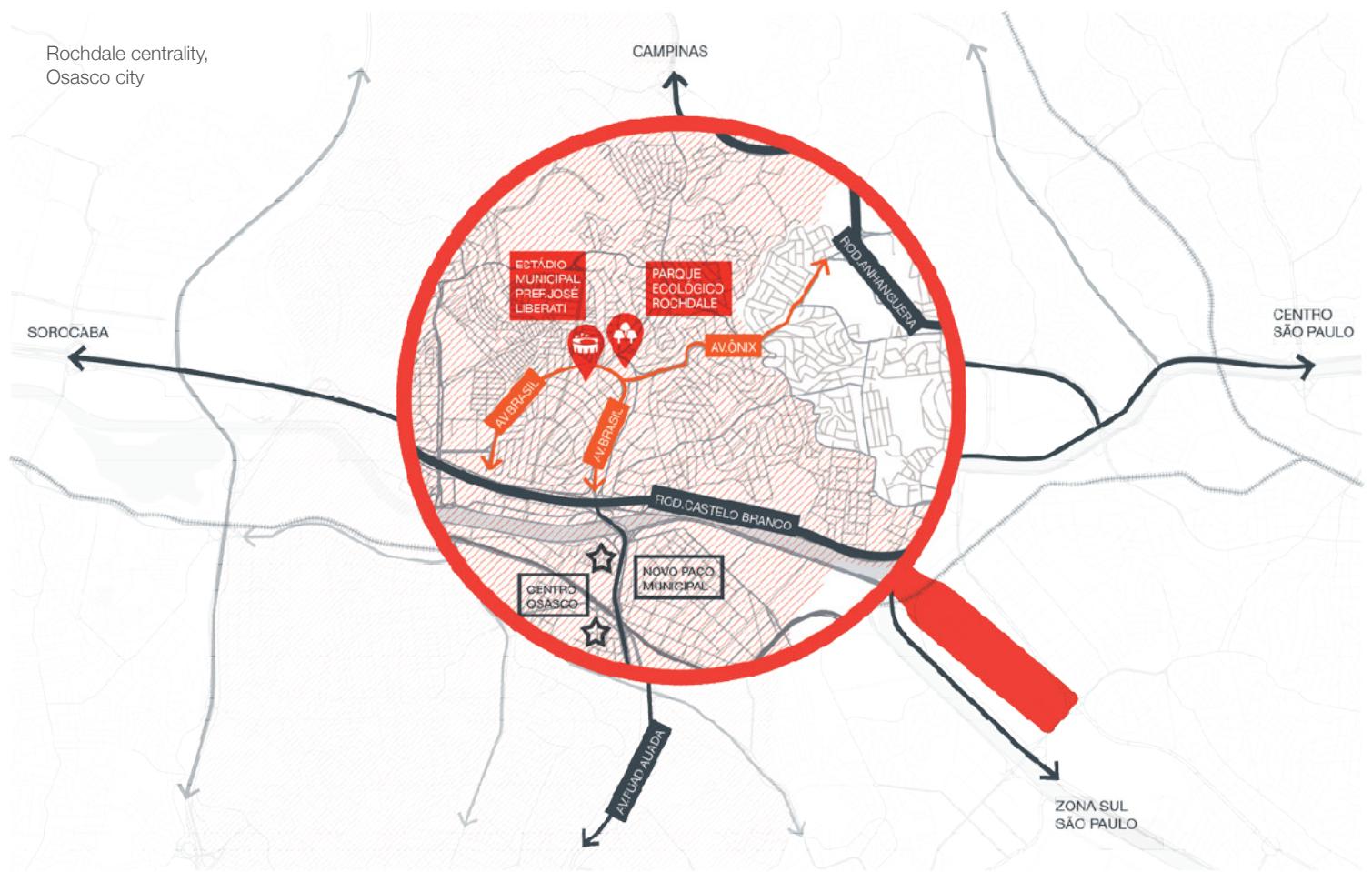


Integrated actions
brings value to public
and private spaces





Sports Complex action strategic program



National Complex Museum Masterplan

Administrative City, South Korea

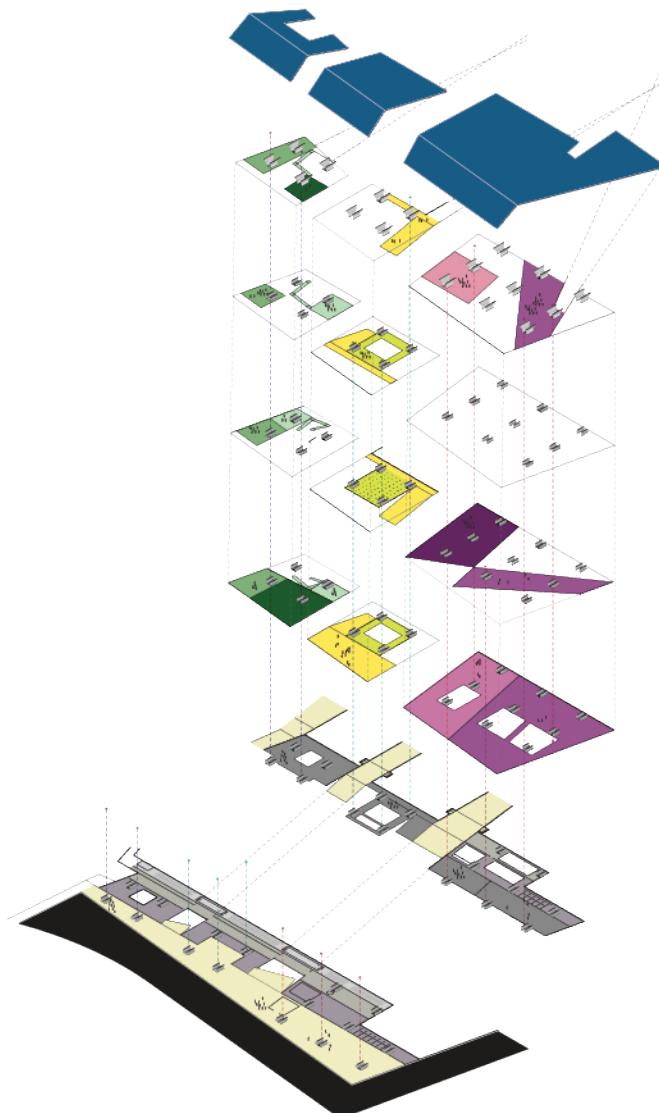
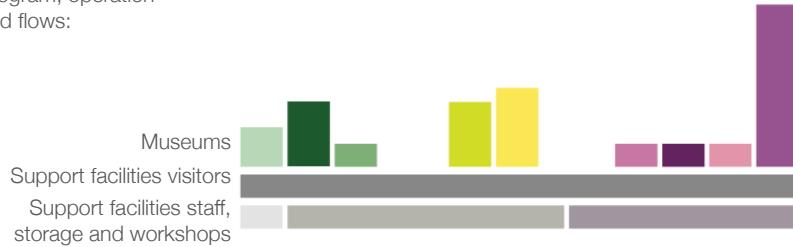
The proposal was for an International Competition. We thought of the project as a critical change in relation to the surrounding topography, and the built scenery as a reinvention of the existing place as synchronized movement

between architecture and landscape in a single action triggered by thought with no hierarchy in order to achieve hybrid spatialities.

Responsible for leading the design team and reporting to the Design Principals. Also developed the masterplan, concepts drawings, diagrams and the competition boards design.



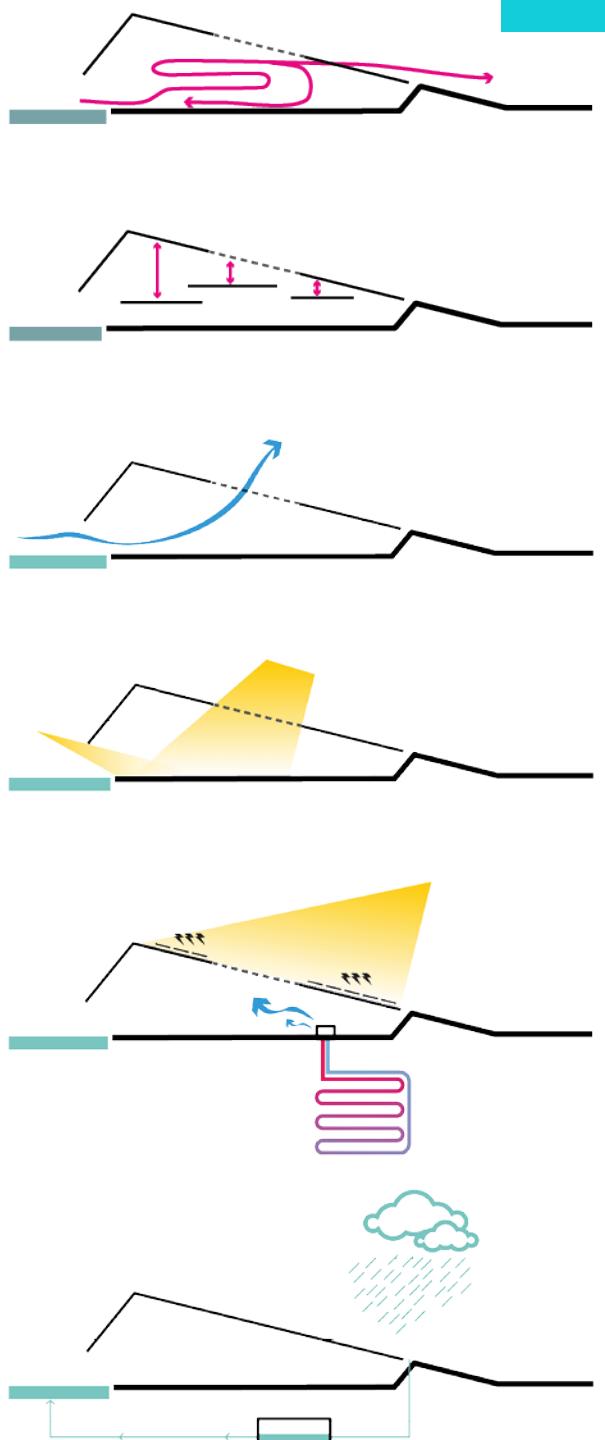
Program, operation
and flows:



Museum
section



Conceptual diagrams:



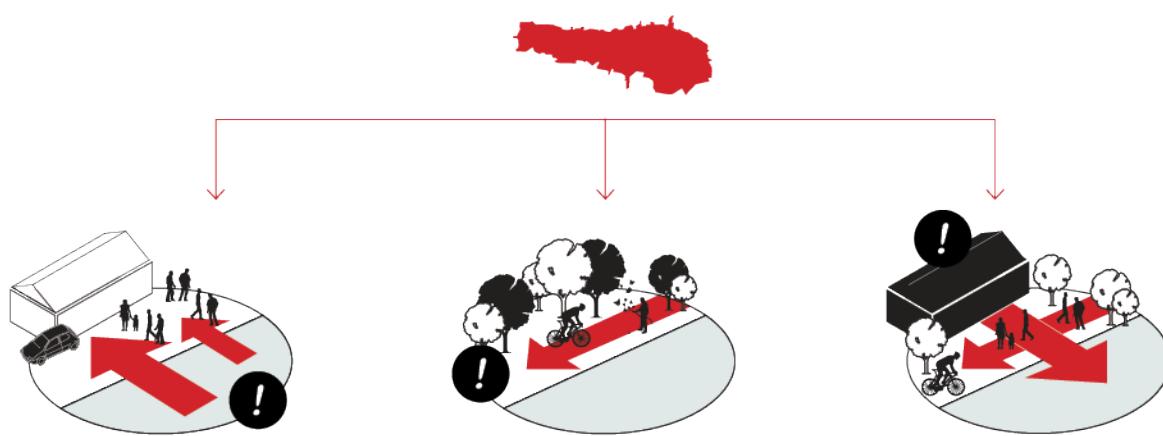
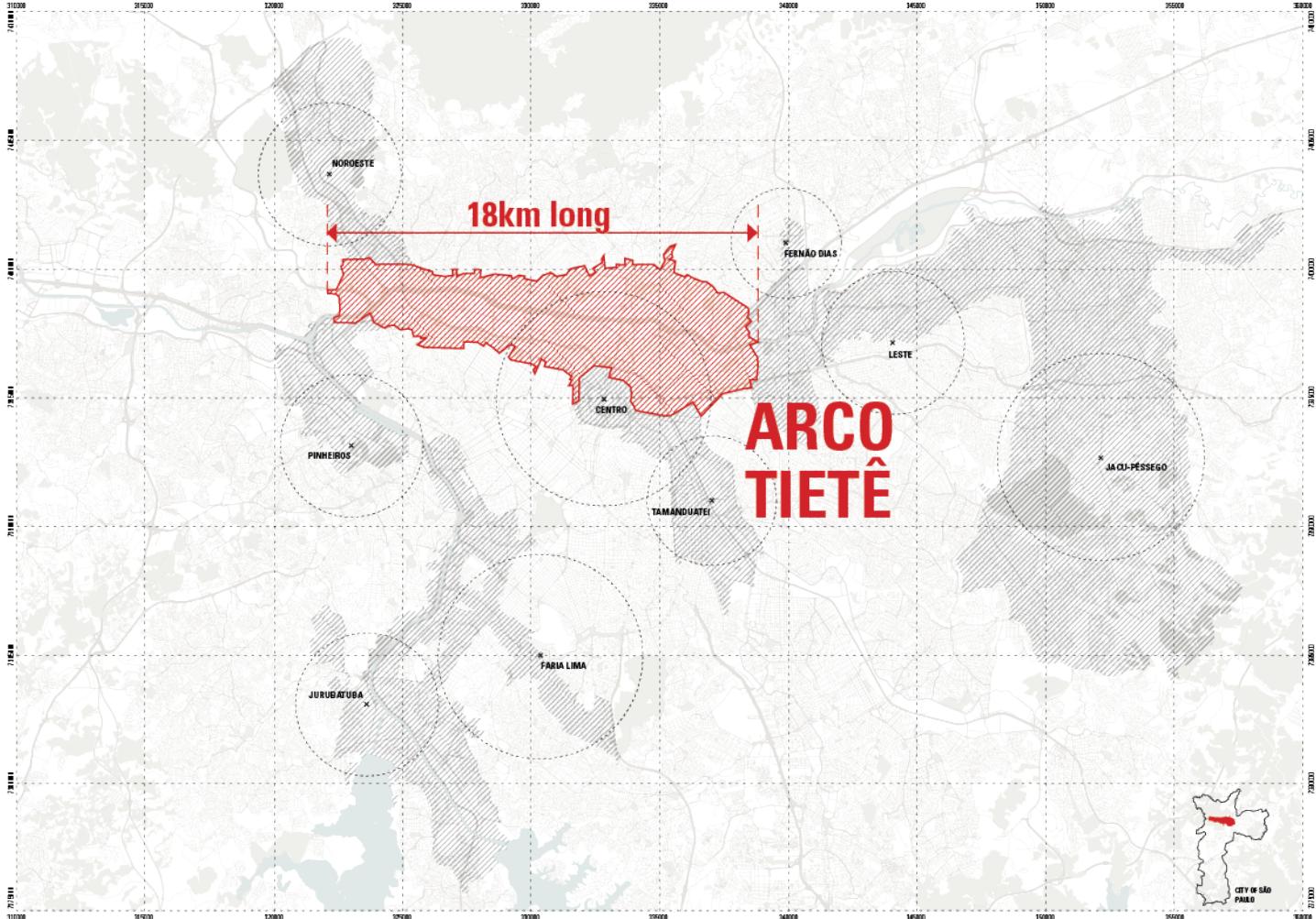
Urban design Graphics Support

triptyque architecture

Freelance work for the french-brazilian studio Triptyque Architecture. Urban project based in São Paulo, Brazil.

Responsible for developing all the graphic design of the project, masterplan, concepts drawings, diagrams. Reported to the Design Principals.

<http://www.triptyque.com/arcotiete>



CREATION OF THE ARCO TIETÊ URBAN DEVELOPMENT PLAN
BASED ON THE RELATIONSHIP BETWEEN THE RIVER AND THE CITY.



REHABILITATION AND INTEGRATION OF GREEN AND
PUBLIC SPACES WITH THE CREATION OF A LINEAR PARK.

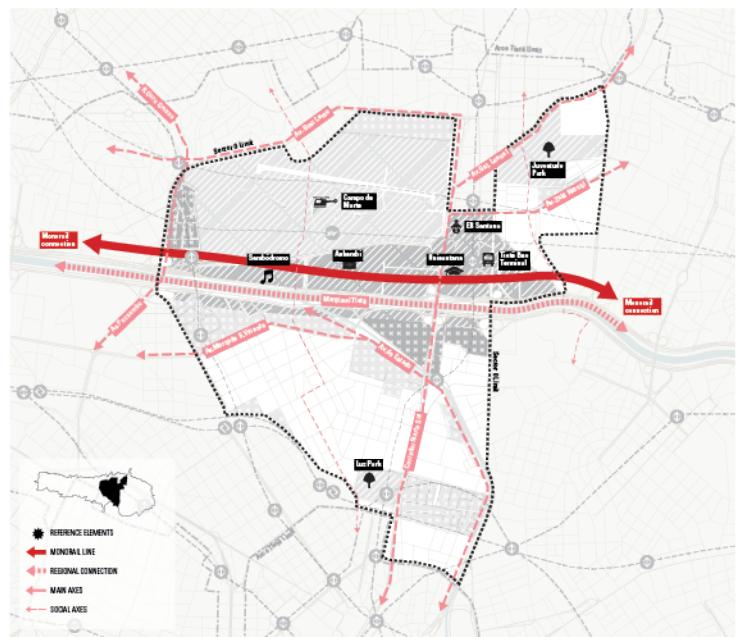
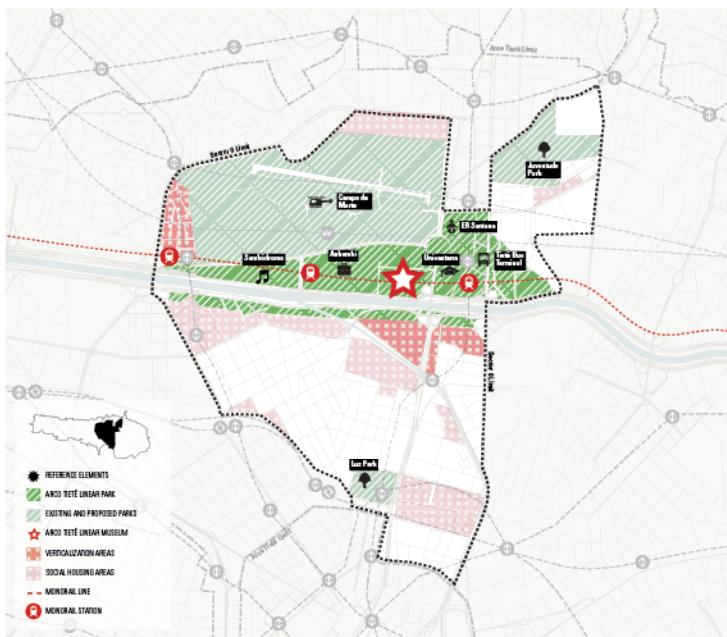
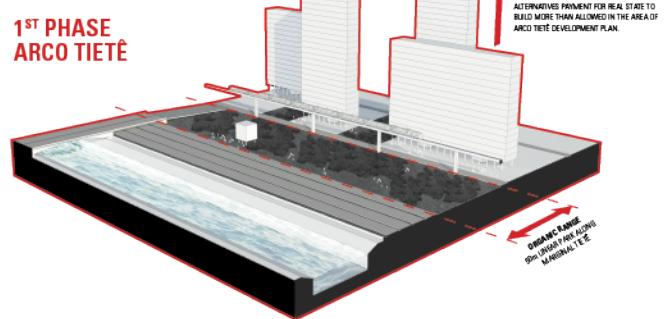
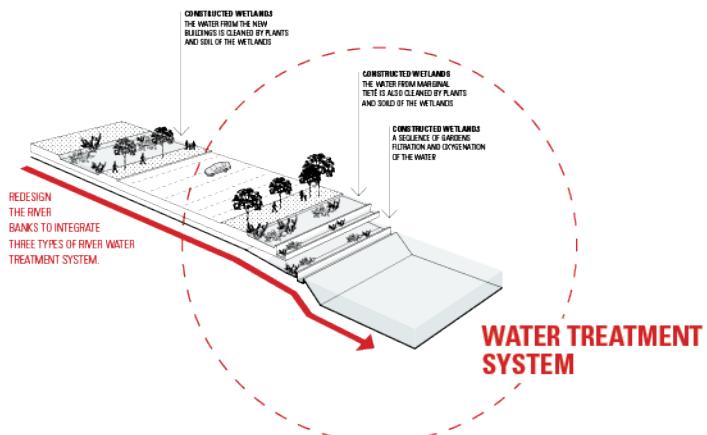
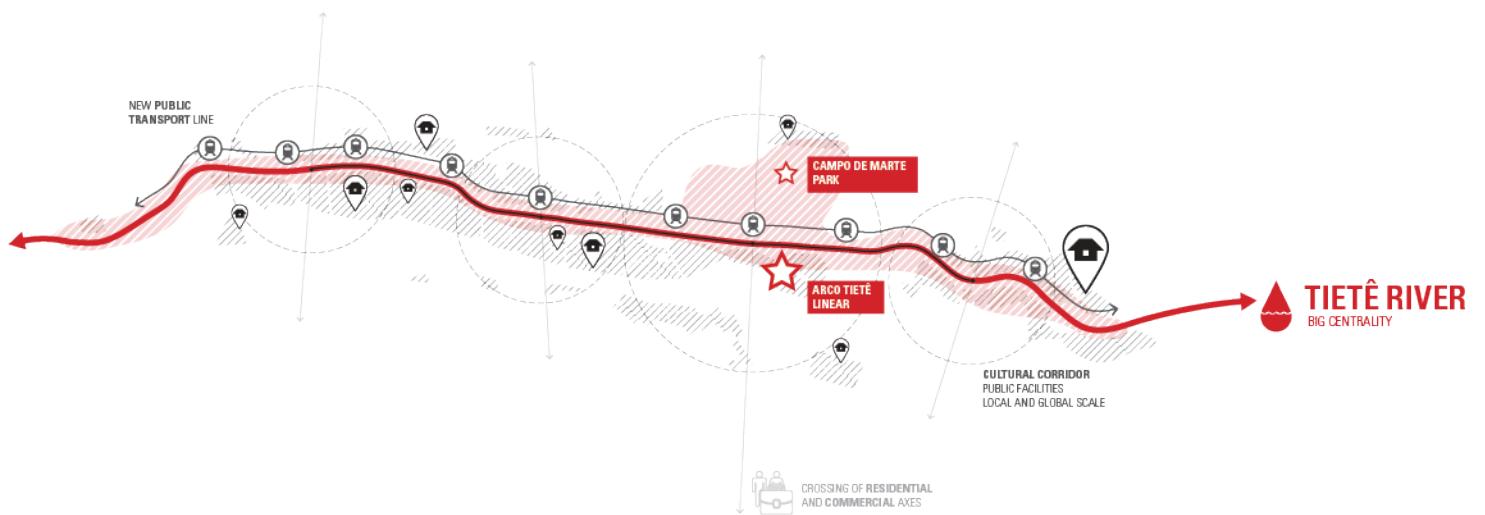


THE LINEAR PARK WILL HAVE
APPROX. 1 MILLION M²

CREATING A LINEAR MUSEUM: CULTURAL CORRIDOR
IN THE METROPOLITAN SCALE.



36 PAVILIONS OVER
18 KM



Urban design Graphics Support

triptyque architecture

Freelance work for the french-brazilian studio Triptyque Architecture. Urban project based in Huningue, France.

Responsible for developing all the graphic design of the project, masterplan, concepts drawings, diagrams. Reported to the Design Principals.

<http://www.triptyque.com/huningue>

