

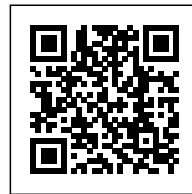


The Aerial Way

Alejandro Carrasco & Eduardo Cilleruelo

THE AERIAL WAY OR HOW I LEARNED TO STOP USING THE GROUND AND MOVE THROUGH THE AIR

Posted on August 8, 2018 by martabuges



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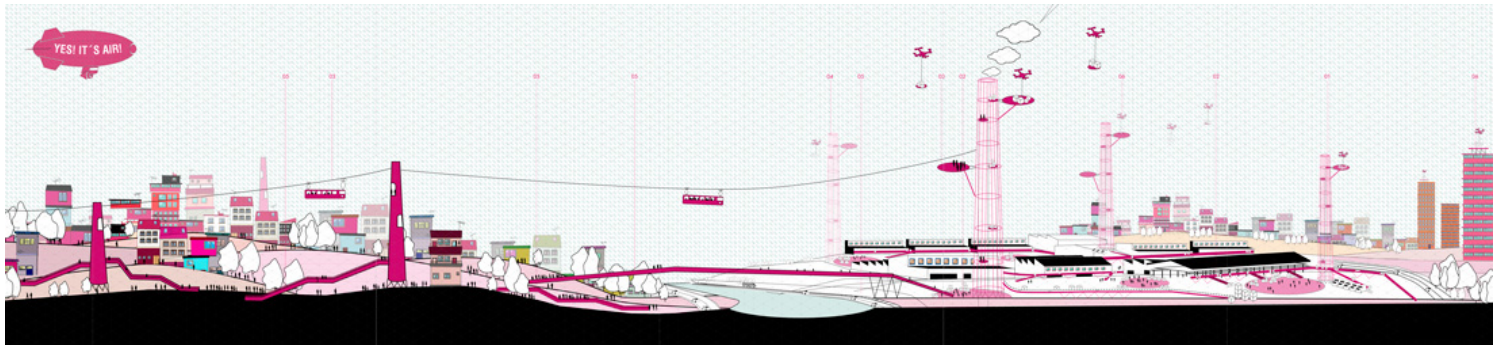
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SAY NO TO ROADS

Roads in São Paulo are completely saturated. There is no space for more cars since traffic jams are constant and both private cars and public transport are not working properly. CEAGESP is one of the most problematic points in the city, suffering mobility problems and urban congestion due to the traffic in the highway, and the trucks and vans coming daily to the complex to sell and buy products. But... What should we do to solve these problems?



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... WHY STOP USING THE GROUND AND LOVE THE AERIAL WAY? ...

São Paulo as an overexposed transport infrastructure

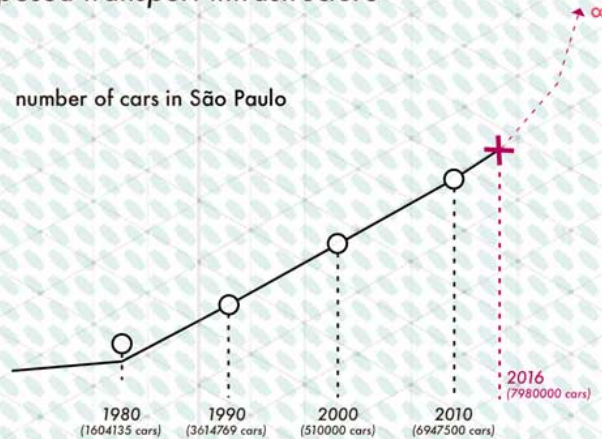
GROUND MOBILITY SYSTEMS

Traffic jams often stretch to more than 130 miles in greater São Paulo, a sprawling megalopolis accommodating around 20 million people and 6 million cars. Last year more cars were sold here than ever before with nearly 1,000 new vehicles hitting the roads each day.

HELICOPTERS?

As a consequence of this urban congestion due to traffic jams and car use proliferation, high class people are investing on aerial mobility systems, such as helicopters, and São Paulo has become the city with more helicopters in the world with almost four times the number of helicopters operating in New York, but...

number of cars in São Paulo



traffic jam distance during peak hours: 250 km



average traffic jam distance: 180 km



ARE AIR MOBILITY
SYSTEMS
JUST FOR RICH
PEOPLE??

São Paulo
420 helicopters

Tokyo
94 hel

New York
120 hel

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PREPARED TO FLY?

Can we transform the traditional ground related mobility systems into air-based ones? An automatic product mobility belt is proposed to reorder CEAGESP, keeping trucks out of the complex by using loading/unloading docks connected to elevated platforms which move the goods automatically from docks to storage spaces and vice versa. Aerial alternatives are proposed also for public transport, public spaces, and connections between both riversides. São Paulo is the city with the highest number of helicopters in the world due to the difficulties to move around using traditional means of transport... but they are expensive so, they are a solution just for rich people. Can we offer aerial mobility systems to other social classes as well?

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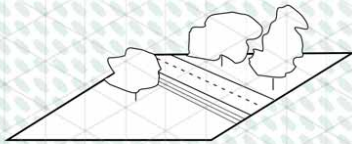
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LAYERING THE CITY. FROM 2D TO 3D.

In this moment the city has every activity on the same level, leading to urban congestion. In order to decongest it, our proposal converts this single layer into 4 different ones, dividing the activity flow by 4, descending the number of existing vehicles in each one.



Present Situation

December 30th 2016

Just one single movement layer
public transport + private transport + logistics + pedestrians



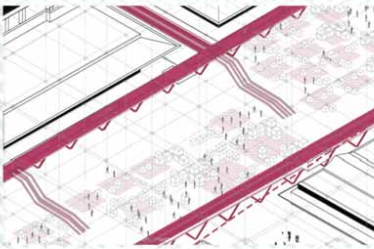
Future

May 30th 2020

4 different movement layers

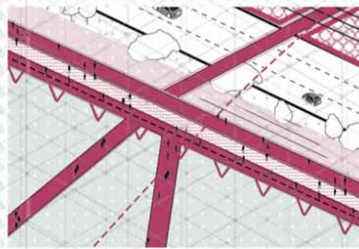
A_THE LOGISTIC SOLUTION

Logistics are one of the main problems of the area. A new automatic transportation belt is proposed in order to reduce truck activity inside the complex, enabling to have more open space and less traffic jams.



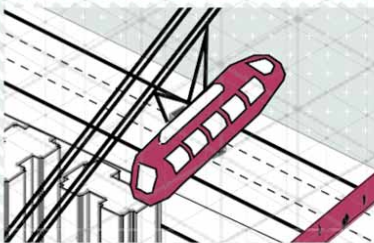
B_RECONNECTING RIVERSIDES. PINHEIROS RIVER DISCONTINUITY

Two different areas were separated by a river. Now they're going to be connected thanks to a elevated platform over the water which connects Jaguare and Vila Leopoldina.



C_FORGET ABOUT NORMAL CARS AND USE THE CABLE CAR!

Punctual, fast and ecological. The cable car appears as an ideal solution for public transportation thanks to the possibility of avoiding traffic jams.



D_WHAT ABOUT PUBLIC SPACES?

The decongestion will lead to a reduction of the space dedicated to ground transportation. Thanks to this fact, public spaces will be increased by placing new parks, cultural spaces or public infrastructures.



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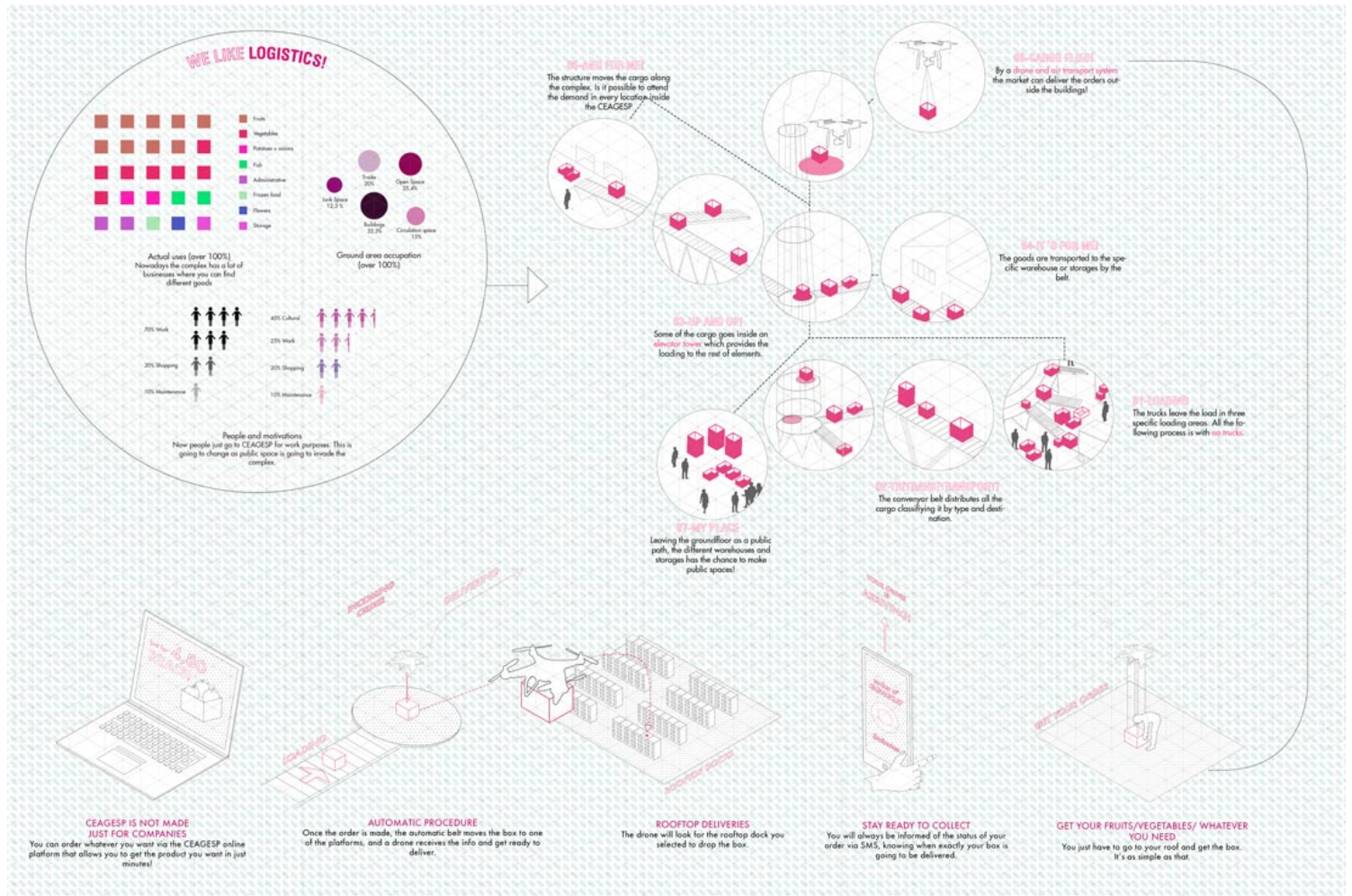
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CEAGESP IS YOUR FRIEND!

Due to this new mechanical platform, CEAGESP is going to be transformed into a big public space targeted to both cultural and commercial activities. It is not going to be a space full of junk anymore, but a dynamic platform for activity and social interaction.



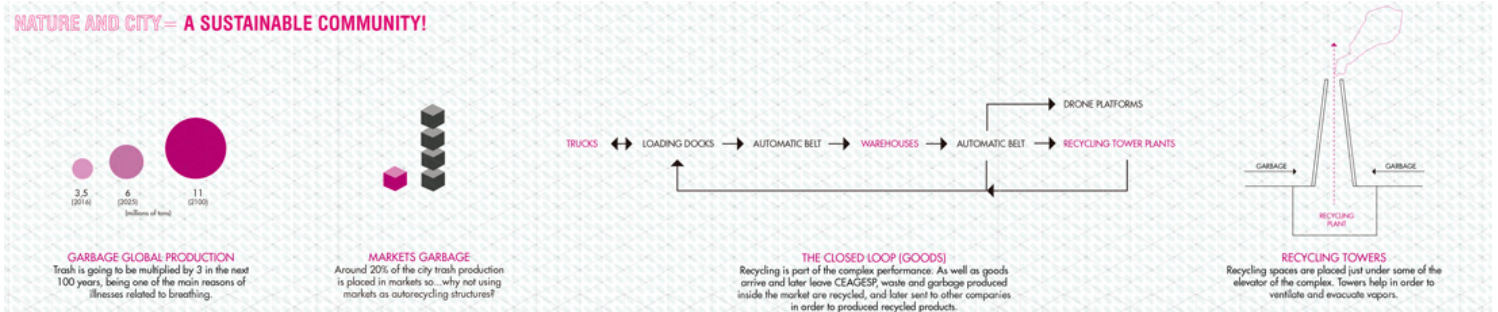
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URBAN CONNECTION

These systems solve the problems in CEAGESP, but not just that: aerial systems should improve the urban mobility all around the city, connecting neighbourhoods that were previously disconnected such as Jaguare and Vila Leopoldina. Since they are a serious alternative to traditional ground systems, they will reduce the number of cars driving around the city and so, the urban congestion.

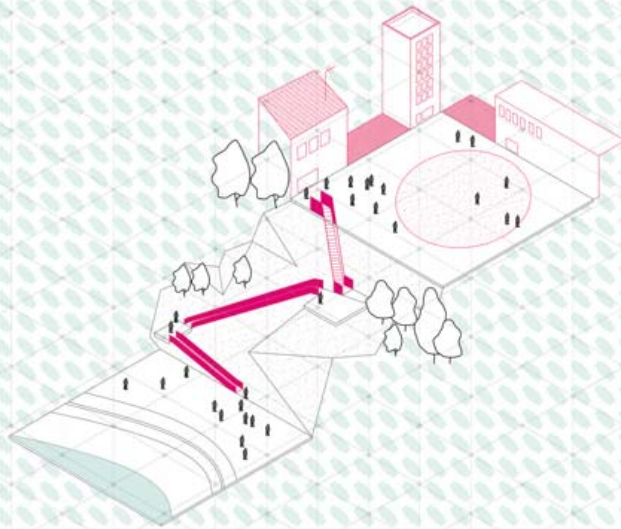
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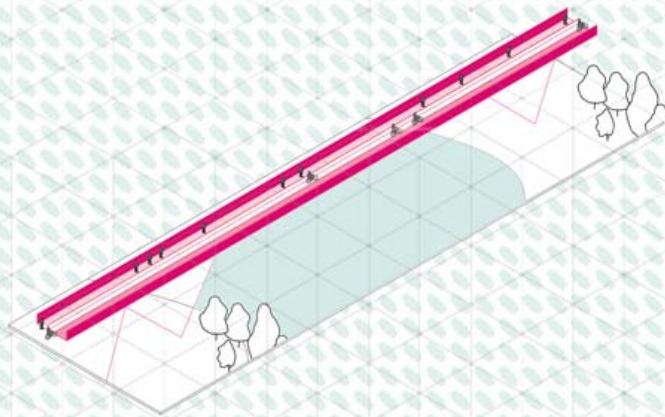
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PUBLIC SPACES! RECONNECTING THE CITY



01-ESCALATOR

The escalators give the society the chance to overcome all the difficulties that the city has, like hills and the different ground levels. These elements become also public spaces as they make accessible places and streets that couldn't be reached before.



02-IT'S FOR PEOPLE

How can we deal with natural frontiers? By using escalators passarels and elevated walking paths systems the area finds a way to integrate different areas that were disconnected before.

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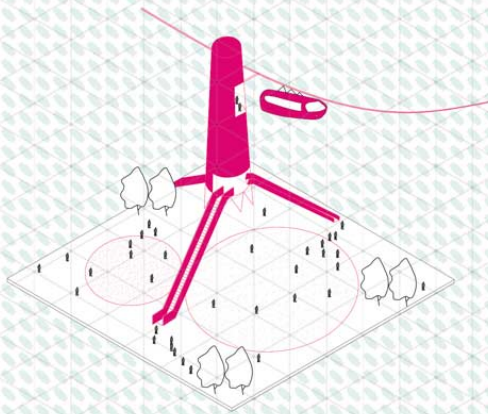
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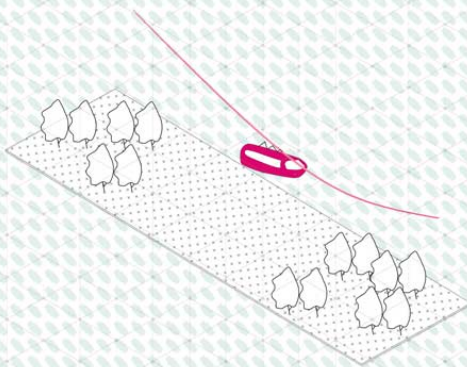
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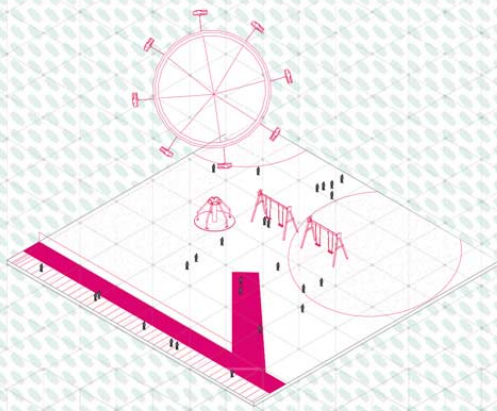
03-CABLE CAR!

We propose a new way of transport that provides the society a new air path to reach any point of the city. The new elevated grid allows people to avoid traffic jams and have faster communications.



04-CONNECTIONS

Public space is an area where urban and technology are combined into a new typology .



05-THIS IS PUBLIC!

If we eliminate the ground transport layer, what happens with that space? Giving that space to people is the best way to involve society in urban planning.

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