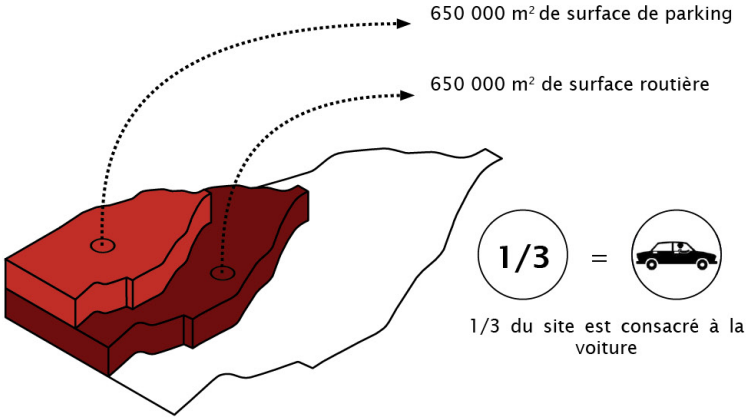
Auto Modulation

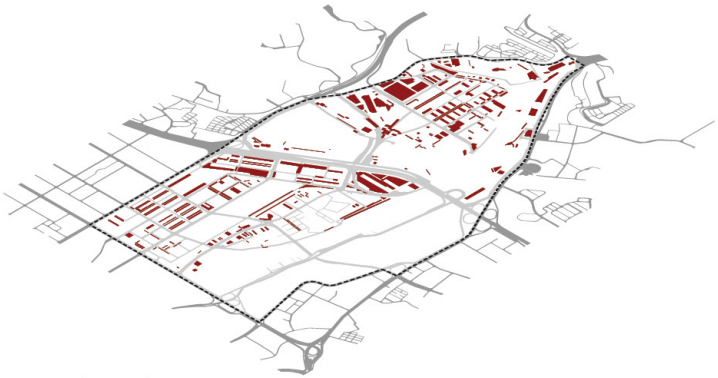
Registration Number : 1020-219-1993

The concept in this project is to deconcentrate the space takes by the automobile structures on the site.
After analysis, we see that more than one third of the site is occupied by cars and associate structures (cars, parking, roads, stations...)

The documents shows this analysis.



1/3 du site est consacré à la voiture



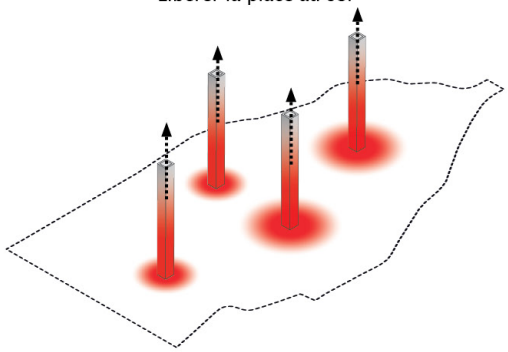
Repérage des parkings

Diagramme de Voronoï des parkings

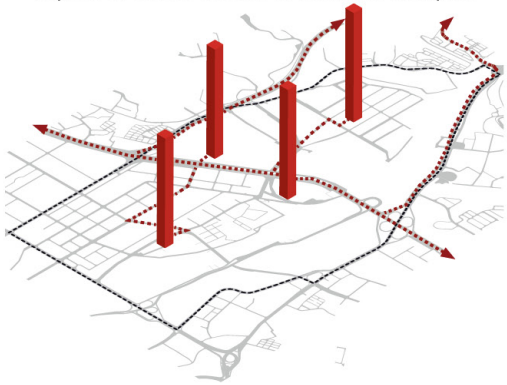
So, for deconcentrate the site of all the space used by cars and parkings, we provide an automated tower building. The tower provide storage for cars, and liberate some areas on ground used by parkings spots.

These are the implentation maps, to situate and illustrate the principle.

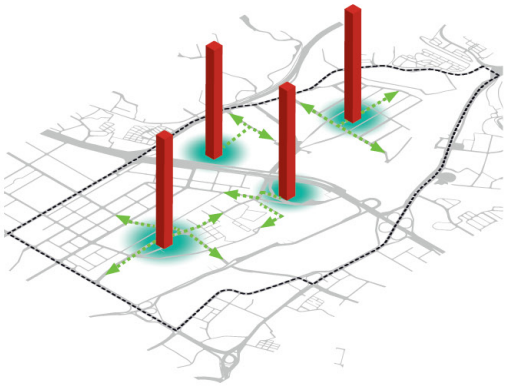
Création de tours destinées à accueillir les voitures
Libérer la place au sol



Favoriser des axes de transport voiture
Séparer la voiture des autres modes de transport

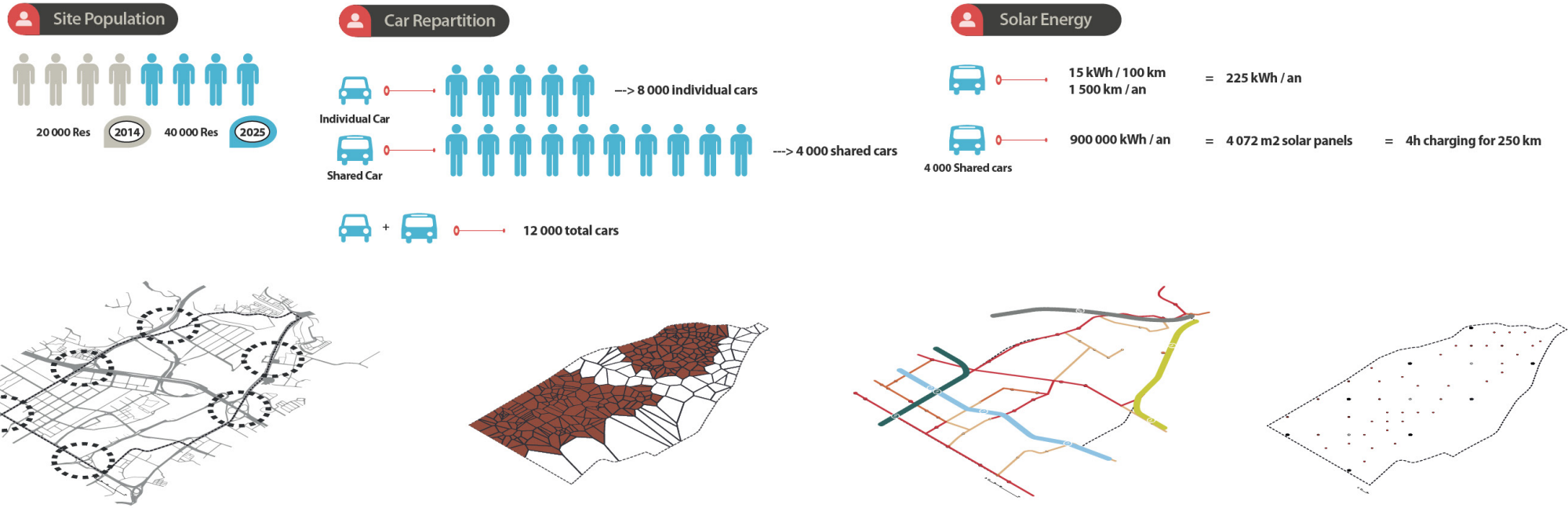


Créer des pôles multimodales
Transformer le réseau routier existant au profit d'axes de circulations douces

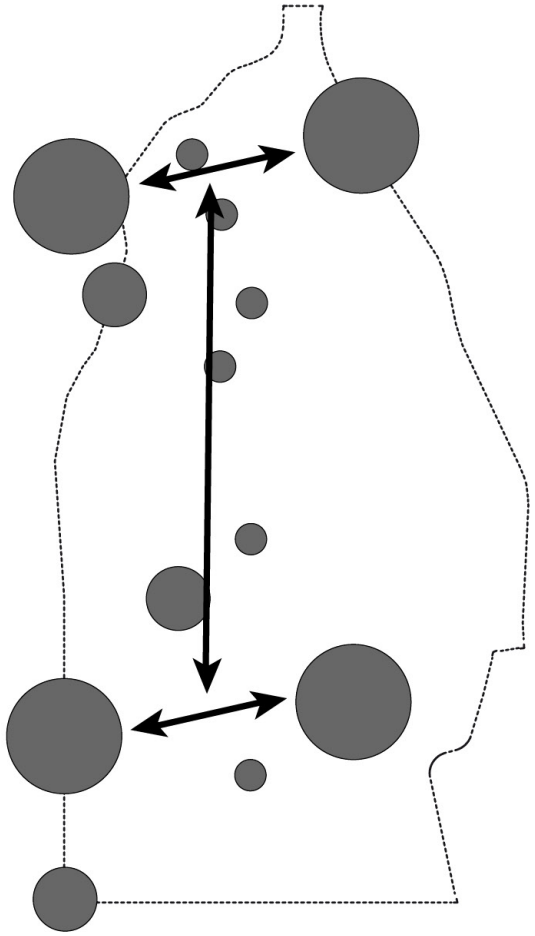


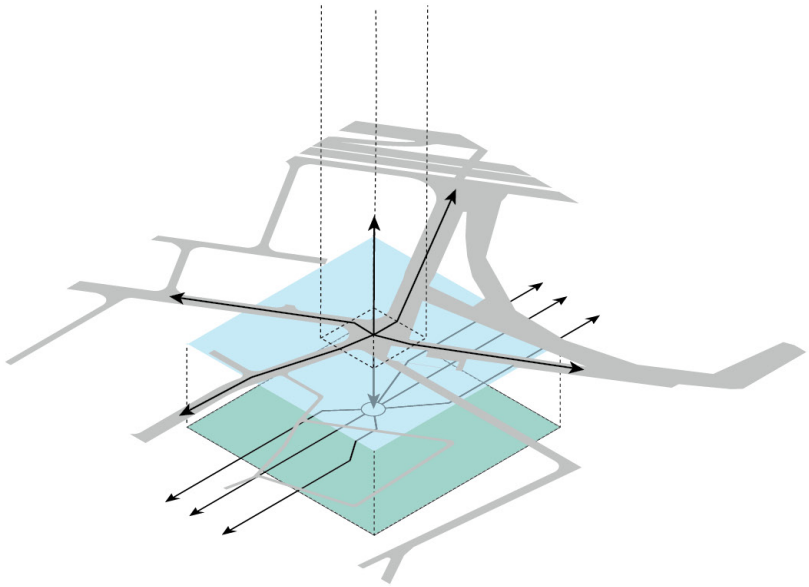
Another idea in the project, is to not only create automated tower parking, but mixed together a automated parking with a multimodal hub or complex. Making a big connection center, linking also cars with the actual and future transports (bus, subway, bicycle, tram...).

In addition to this, we make the bet that cars will always exist in future. The aim is to avoid the explosion of number of cars on site. For that, we propose to add electric shared cars in our hub tower. The solution will be to have not one or two cars by family, but one car shared for three or four family.So, we propose electric shared cars, implented in our tower, and powered by solar electricity made by solar panels fixed on the tower (the scales of the tower is based on solar and dimensions needs for power consumption of a certain number of vehicles)

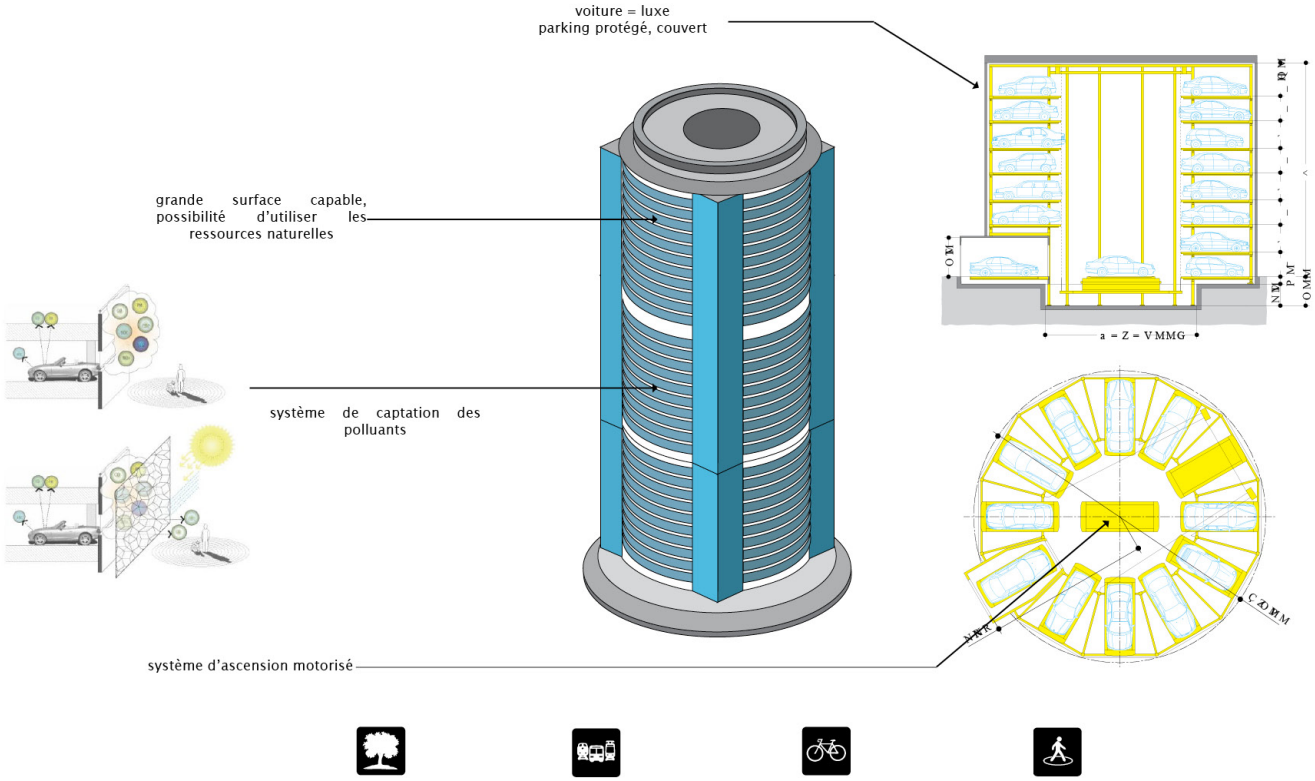


Here is the linkings views of the hub and connections principles

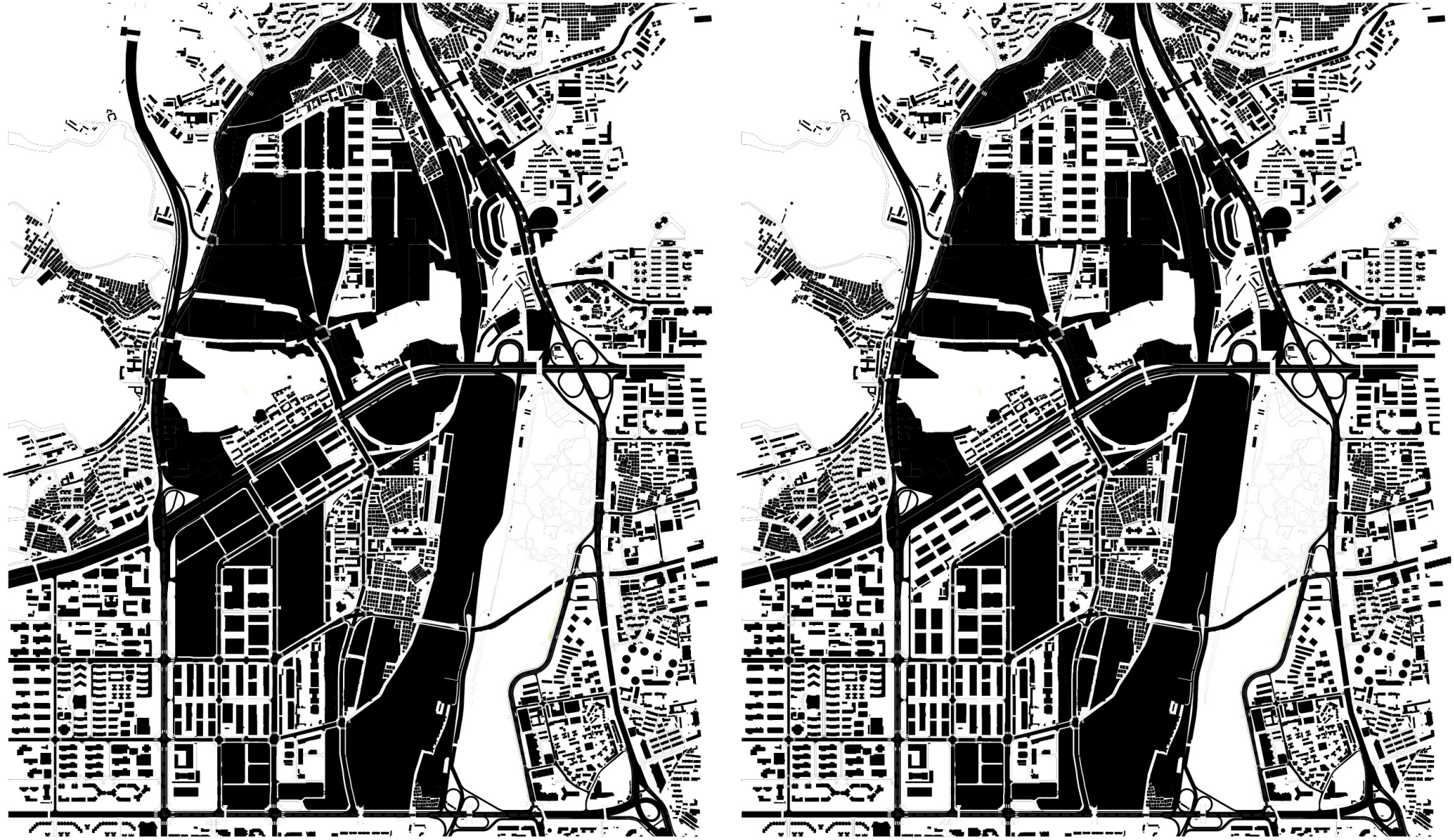




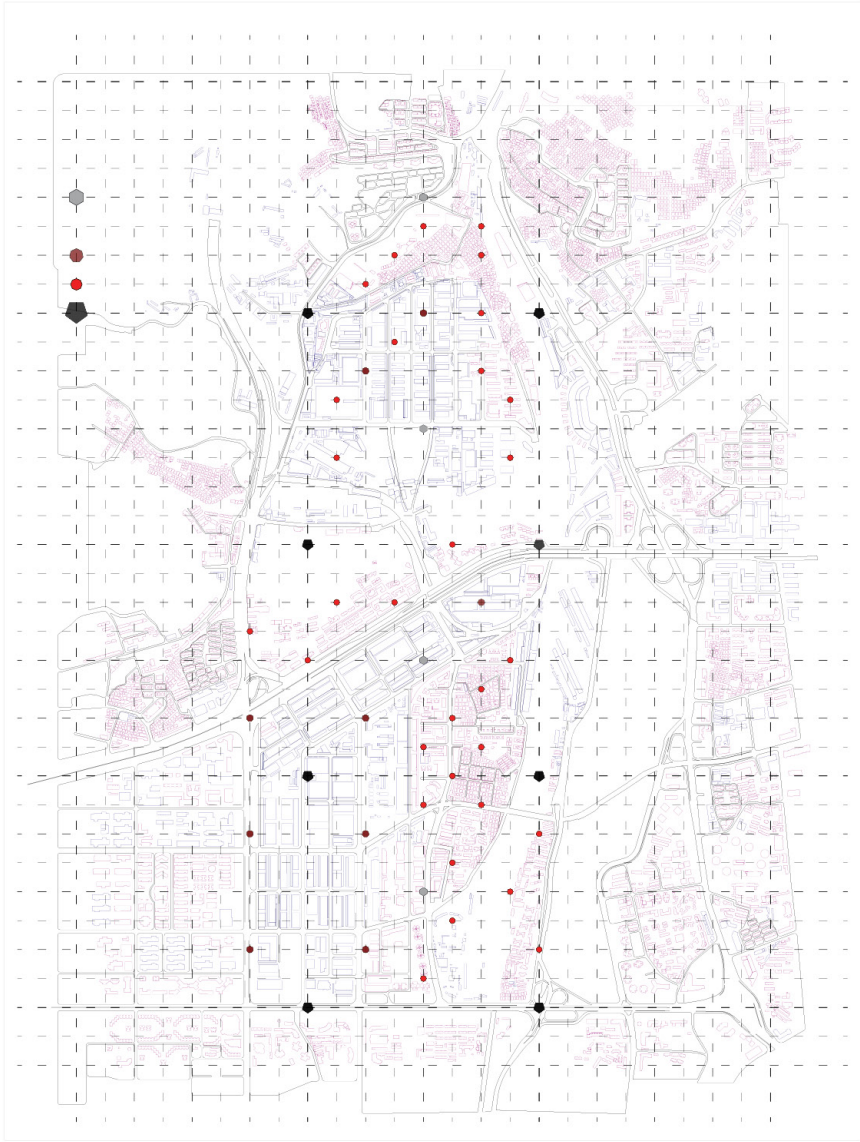
This document illustrate the utlity of automated car park (structural system and mecanisms)

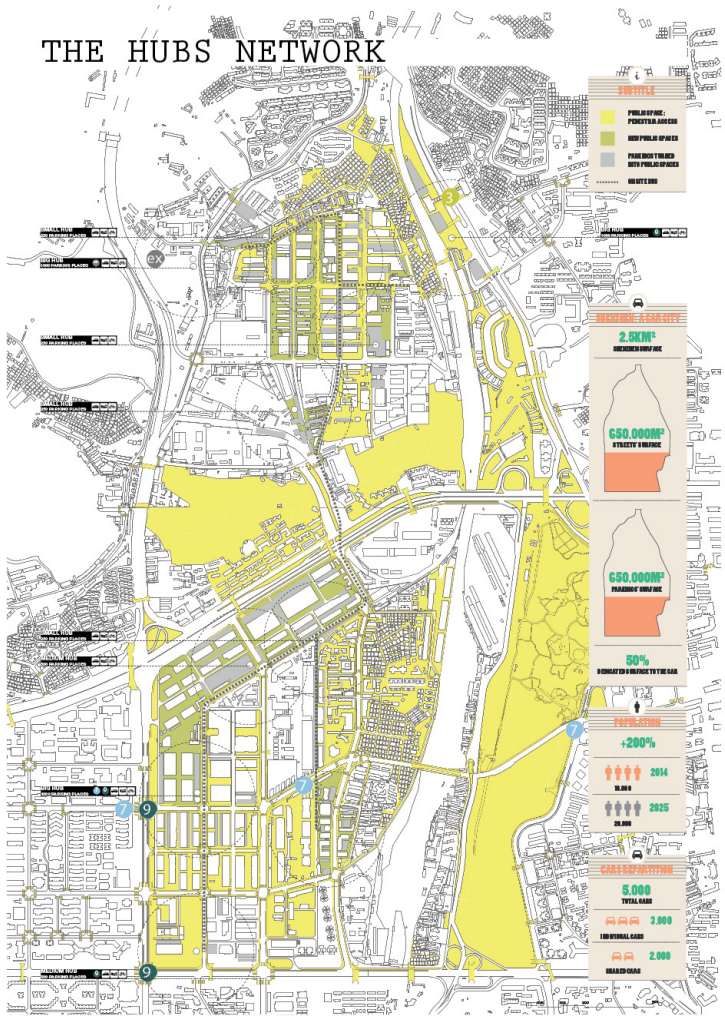


These maps shows the spaces accessible to pedestrian in white.
On left it's the actual spaces (2015), and the right shows the liberated spaces permit by our tower park.

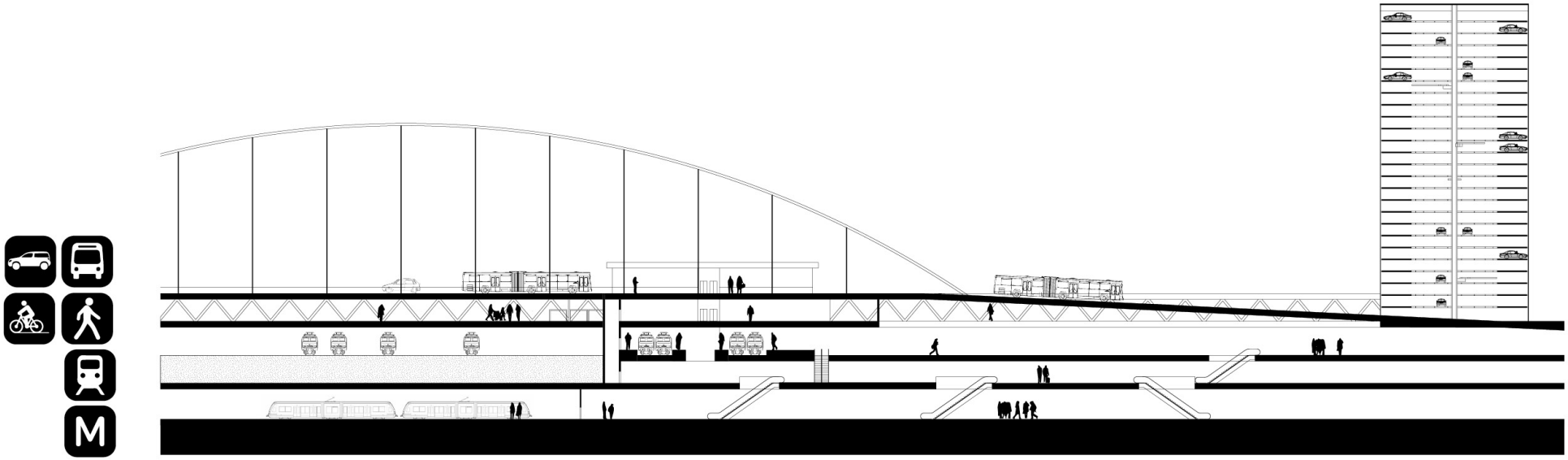


These maps reveals all the project evolutions (implentations, sizes, storage capacities...)





The section shows the hub and connections systems principles (inter-connections, subway, pedestrian acces...)



The section besides shows more clearly the project in his totality and all the activities in the tower.