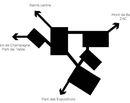
Multitalented City

Intensifying by making squares

Five squares become backbone of the new district. Each square creates a cluster around it.



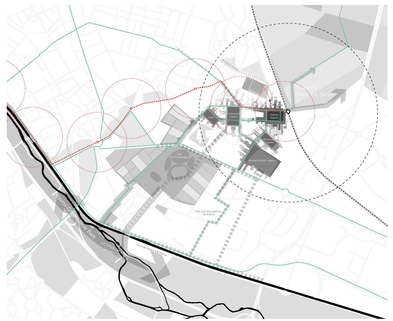
Squares form continuous public space system

Each square has a different character. Scale, function and typology of surrounding patches witch strengthen these identities.

Density and intensity is highest near the station, and lowers down to the edges of the district.

Program is spread in the squares and stimulates interaction among different social groups.

Showcase square clusters most innovative functions – agro-fuel research centre, laboratories, light industries and lyceum. The square is divided in small lots used for exhibition of plantation and gardens of laboratories. Buildings of surrounding patches have particular typology – labs and industries on ground floors and apartments, student housing and greenhouses on top floors. Solar tower collects energy, which is later used for data centre. And heat from data centre is utilized in top floor green houses.



Five squares become part of continuous Reims open space structure. Bicycle routes connect it with the surrounding peri-urban landscapes and public transportation brings direct link with the city.

European cities are facing new challenges for the future. Loosing population, sprawling towns search for new ways to develop and attract most talented knowledge workers. Reims is one of them. How the city with 200 thousand inhabitants could offer a unique district? It should be a district as a system able to sustain by its own. We have to design new multitalented city. City where everything happens: life, work, daily program, innovation, leisure. There is diversity and dynamics of people and function, effective transport system. City produces and consumes its energy, is flexible and able to adapt to changes – environmental, societal and economic.

Spatial structure

Backbone of the Multitalented City is five distinctive squares. By main routes open squares are connected into one continuous public space network. Streets link open spaces and new district with adjacent neighborhoods, business zone and centre of Reims. In wider scale squares become part of eastern Reims green structure, linking peri-urban landscapes and city parks.

Function

Distinctive identity squares create five different program clusters around it. Clusters are divided into patches. These smallest urban units are filled with typology, scale and function to strengthen character of the square. The five squares are: Station Square, Showcase square, Vineyard public space, Community square and Park square. Station square is the key public space, gate to former Moulin de la Housse campus. Most diverse functions are located there: station with urban lobby and meeting rooms, food market, creative incubator next to it, offices, services, commercial functions, apartments, high density. This entire program forms the centre of the district. Showcase square attracts most innovative functions – agro-fuel research centre, laboratories, light industries and lyceum of the district. Here energy and knowledge is produced. Research cluster is a bounded in between residential cluster near the vineyard and business cluster near the station. Density of program and housing goes lower further from the station, to the edges of the district around park square and vineyard. Middle density community square becomes main resident's public space to go out to relax, play, and gather. Iconic amphitheater building is renovated into cultural community house. It is used for meetings, clubs, hobby activities and exhibitions.

Mobility

All these functions are bound by effective mobility system. Creating conditions to use sustainable forms of transport is an important objective of the strategy. Using public transportation, shared bikes, cars and changing modes of transportation has to be cheap, fast and easy. Therefore in the plan all these systems meet in mobility spots. Multitalented City is well linked with public transportation. Train station is a direct connection with the city centre, while bus and tram links new district with other Reims neighborhoods.
Bicycle is treated as the main form of transport within the campus. Shared city bicycles system is introduced in Reims. Besides cycling paths to the city, recreational routes are defined leading cyclist from the five squares to metropolitan landscapes.

Smart patches

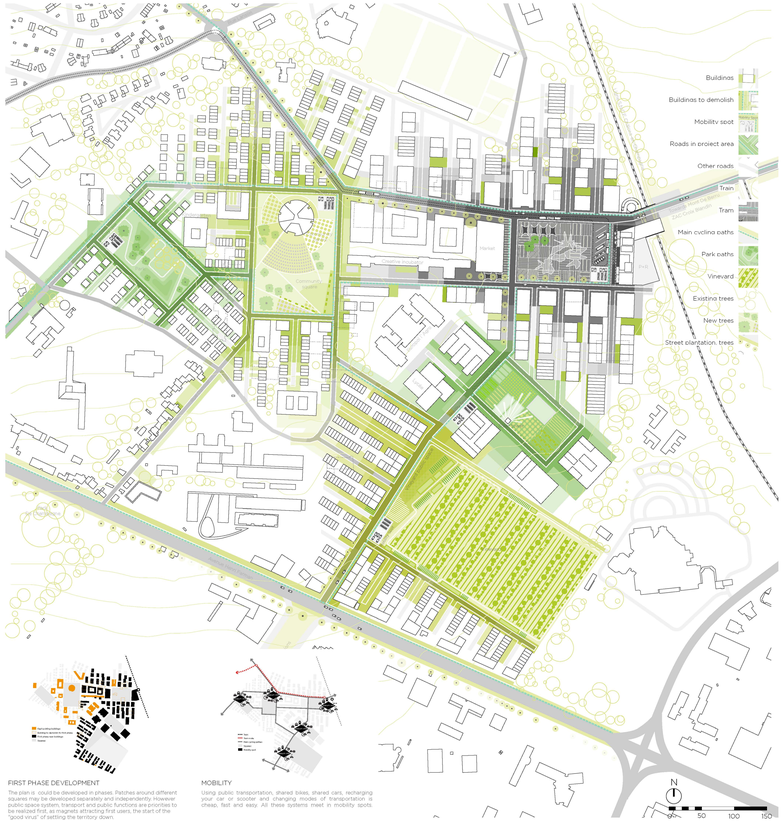
Patches around squares are connected to different networks to manage energy, water and waste. House is a smallest fractal unit to manage energy use, rain water collection. On the larger scale they belong to networks of geothermal energy, solar powered transportation, and waste collection.

Balanced public space structure together with diverse program and effective sustainable mobility create multitalented identity of Moulin de la Housse campus. District becomes a pilot project of a dynamic, flexible and sustainable future city.

Multitalented City

PROGRAM OF THE DISTRICT

ENERGY CYCLES



FIRST PHASE DEVELOPMENT

The plan is could be developed in phases. Patches around different squares may be developed separately and independently. However, public space system, transport and public functions are priorities to be realized first, as magnets attracting first users, the start of the "good virus" of settling the territory down.

MOBILITY

Using public transportation, shared bikes, shared cars, recharging your car or scooter and changing modes of transportation is cheap, fast and easy. All these systems meet in mobility spots.

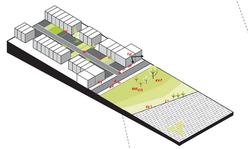
Multitalented City

Reuse of typical campus building

TYPOLOGY — Typical campus buildings are partly reused.
Inside is removed, while structure and foundation are used for the new houses.

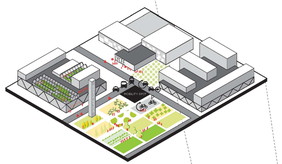
Vineyard square patch

TYPOLOGY — low rise - high density
cafes and restaurants in the street
QUALITY — roof terraces provide viewpoints toward the landscape
PUBLIC SPACE — large front gardens extended toward the vineyard.
street as public space



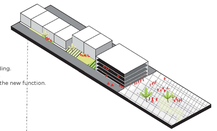
Research cluster patch

PROGRAM — School is added to create more dynamic use of the outdoor shoowroom.
PUBLIC SPACE — outdoor showcase. semi-public deck on the roofs.
ENERGY — energy is shared inebetween different programs.
heat from laboratories is reused for greenhouses and homes.



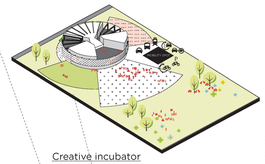
Station square typical patch

SOLIDS — Solid is the building facing the square. Structure and space organisation provide possibilities to have almost any function in the building. The structure is strong enough to hold light industries and space have good quality for residential program.
DENSITY — This patch is the most dense in the campus.



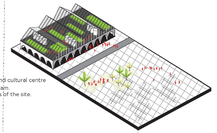
Community centre

PROGRAM — Event space + hobby rooms + communal activities
PUBLIC SPACE — Active outdoor program is organised around the building.
Big open field provide possibilities to host big events.
DENSITY — Auditoriums are converted to terraces or added with the new function.



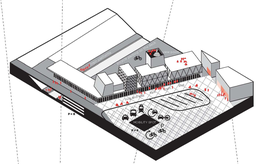
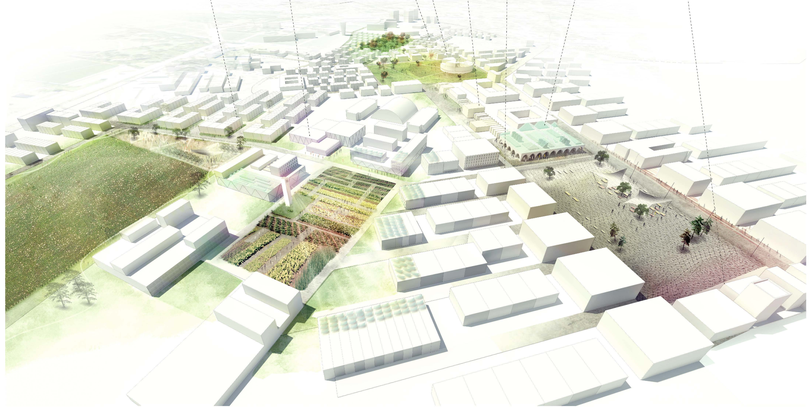
Market

PROGRAM — Traditional market + Food production
PUBLIC SPACE — Market ensures weekly used spaces around the square.
Covered space could be used for various outdoor activities outside the market days
FOOD — Growing local food, food production, learning centre and
food market will start the food chane for local food.



Creative incubator

PROGRAM — temporery program. studios, galleries, places to perform and exhibition areas, libraries, workshops
PUBLIC SPACE — different outdoor functions can extend towards the market and cultural centre
DENSITY — old structure is infilled with new elements acording to porogram.
space is rented for maximum 10 years to ensure the dynamics of the site.

Station

PROGRAM — Station + Urban loby + Small offices
URBAN LOBY — public loby directly connected with station and mobility spot. caffes, restaurants, meeting rooms, conference halls are provided for bussiness meetings. Top floors provide small office spaces to rent.
PUBLIC SPACE — Urban loby is accessible 24/7 and enrich the square with urban program. Public terrace is situated on the highest point to provide views toward the landscape.