

La Cité Maraîchère de Romainville*

APRIL
2020

***The Market Garden City of Romainville**

A living laboratory
to cultivate
the city of tomorrow



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PRESENTATION FOLDER

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Ville de Romainville

**Project
partners:**



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MAYOR'S EDITORIAL*



This dossier was written during the second Scientific Council of the *Cité Maraîchère* in November 2019. You will find a lot of information about this project that I particularly care about and which I have strongly supported over the last few years.

The work on the building has been slightly delayed due to a few incidents on the site. However, this does not prevent the City services and their many partners from working and moving forward on the project in multiple ways. I would like to thank them for that: thanks to them, the *Cité Maraîchère* already exists and is therefore no longer a project as such.

The idea of setting up a new public service in the heart of a priority neighborhood in Seine-Saint-Denis will soon be a reality. I'm talking about a public service deliberately. That is my vision today. Because the *Cité Maraîchère* will serve above all the residents of Romainville and the surrounding area in different ways. Some of them will work there, for a shorter or longer period of time, and will train there; children will learn a lot in school or after-school activities, and then they will take their parents or grandparents there to visit, who will in turn be made aware of sustainable development; local employees will be able to meet there or have lunch; and, above all, the residents of the neighborhood and surrounding areas will be able to buy quality fruit and vegetables grown locally, without pesticides or synthetic chemical fertilizers, at a reasonable price. It is time to put an end to food injustice; the most modest households should no longer be forced to consume products that are devoid of vitamins and minerals.

Of course, I hope that people will come from all over the world to see our *Cité Maraîchère*, to take an interest in it, to exchange knowledge, and to be inspired by it, why not. But the first mission of the place, as well as of the team in charge of it, will be to serve the residents on a daily basis. And the objectives of the project are indeed objectives of general interest: employment, integration, education or even public health.

The *Cité Maraîchère* has its detractors, which seems quite normal to me for such an ambitious project. For some, it would be too big, too expensive, too innovative. For others, it wouldn't belong in a territory like ours. I'm sure the skeptics will change their minds soon, seeing it work. In the meantime, we just have to remind them that we can't get anywhere without taking risks, without trying. It is the role of elected officials and public authorities to try to provide solutions to problems that arise. Our time is unfortunately that of global warming, urban sprawl, polluted soils and poor nutrition; with the *Cité Maraîchère* we want to respond, at our scale, to some of the major issues of the 21st century. And to do so, we must invent everything, since this type of public structure does not exist anywhere else. So, despite all the work that has been done in advance, we will certainly have to test, start over and adjust. All this promises to be intense but exciting!

Once again, I would like to thank all those who have been involved in this wonderful adventure. I would like to assure them that even if I am no longer mayor in a few months, I will continue to follow the activity of the *Cité Maraîchère* from a little further away, but not without pride.

Corinne Valls

Mayor, Vice-President
of the Departmental Council
of Seine-Saint-Denis

* Dated November 2019, on the occasion of the second Scientific Council of November 7, 2019.

SUMMARY STATEMENT

The *Cité Maraîchère* is designed to meet the major social challenges in the territory (food, health, employment, education, social ties) and is a new public facility focused on innovation and the needs of residents.

Located in the heart of the Marcel-Cachin district, requalified between 2007 and 2017 as part of a vast urban renewal program led by the National Urban Renewal Agency (ANRU), the *Cité Maraîchère* will soon open its doors and offer:

- Healthy, fresh and local products to the residents.
- Educational workshops adapted to all audiences (schools, families, professionals, etc.).
- Educational, culinary, scientific and cultural events.
- Moments of encounter, learning and experimentation.
- A café-canteen serving organic, local and fair-trade products.
- Training courses.
- Job opportunities in diverse and meaningful fields.

The *Cité Maraîchère* is a systemic and multifunctional project that is unique in France. It will bring together in one place the activities of market gardening, composting, catering, sales, gardening, educational activities, experimentation and training. By having the necessary resources to feed its own system on-site, the *Cité Maraîchère* will materialize the virtuous concept of circularity.

As a new public service for the residents, the *Cité Maraîchère* will offer prices adapted to the income of the local population: prices of products, activities, meals and drinks at the café-canteen, etc. The schools of Romainville will benefit from workshops and the provision of space and equipment. Finally, residents and local associations as well as public bodies and social actors, sustainable food and environmental protection sectors will also have access to the spaces and facilities.

A variety of activities – market gardening production, eco-activities, catering and reception, sales and service – **and career discovery courses will be offered to about fifteen unemployed people** in a work integration project involving the *Cité Maraîchère* and the solidarity grocery store of the new Eco-solidarity House in Romainville.

The City, which owns the building and is the project owner, has chosen to set up a **municipal board** to operate this new public facility. After Mouans-Sartoux, Vannes and Firminy, Romainville's agricultural board is the first to be launched in a dense urban environment and in the form of an integration project carried out by the City.

The building, its operation and the activities that will be carried out there are designed in an ecological way: use of rainwater for watering agricultural production, crops grown on substrates composed of urban waste, no synthetic chemical inputs, use of certified organic seeds and plants, natural light, heat and ventilation in the production stages, intelligent bio-climatic management of the crop areas backed by a mini weather station to optimize settings, sorting of organic waste and installation of a neighborhood composter, wood boiler for spaces where the public gathers, use of cork for insulation, reinforced thermal and solar protection, greening of outdoor spaces, café-canteen furniture made from recycled materials...

The agronomic model that will be developed in the *Cité Maraîchère* has no equivalent today. As a “low-tech” building, the only technological part will be the building envelope and the control of the openings, solar shading and watering. All the rest of the model will use simple materials and processes that do not use any synthetic chemistry (growth medium –substrate– made from urban waste reconstituting a “soil”, organic amendments based on compost and vermicompost), no LEDs, no heating (natural light and heat from the greenhouse), no air conditioning (ventilation through the openings and air circulation system). Energy consumption will therefore be minimal.

The *Cité Maraîchère* project attempts to respond to the challenge of food justice by promoting access to fresh and quality produce (rich in vitamins, nutrients and without chemicals) for the entire population. Indeed, the creation of a public service will allow the establishment of rates adapted to the income of each person, so that the cost is no longer an obstacle to the purchase of these products.

In order to develop this project with its multiple innovations –agronomic, architectural, social and governance– the City has surrounded itself with experts who has supported it in the design of the operating project and will follow it throughout its implementation, each in their own area of expertise: agronomy, urban agriculture, employment, education, food waste and ecology. These experts work in research institutes (AgroParisTech, INRA, IRSTEA, Astredhor), public institutions (EPT Est Ensemble, Department of Seine-Saint-Denis, Greater Paris Metropolis, Île-de-France Region, DRIEE), educational institutions (local schools, Gustave-Courbet Middle School, Romainville’s High School of Laboratory and Health Trades, Montreuil’s Horticulture and Landscape Trades High School, IPAG Business School), associations (AFAUP, Together for Employment, Lab3S), Social and Solidarity Economy structures (Baluchon, Moulinot, Cultivons la Ville, Espaces, UpCycle-La Boîte À Champignons, Chantier École), companies (Florentaise, CMF). These experts are also involved in working groups set up to measure, monitor and improve the local impact of the project on four key themes: employment, education, agronomic techniques and communication.

The issues that the *Cité Maraîchère* is trying to address do not exclusively concern the city of Romainville. Cities and suburbs, which are home to a growing proportion of the world's population, are reducing agricultural land, artificializing the soil and degrading its quality, thus undermining food security. **The new model developed in the *Cité Maraîchère* must be established with a vision of being transposed to other territories** in the future, whether in terms of its agronomic and social aspects or its mode of governance. The collection of various data throughout the implementation of the project and their availability are therefore essential (open data principle). Moreover, the processes used as well as the data and results derived from the activities of the *Cité Maraîchère*, a public project of general interest that relies on public research and public partners, cannot be patented or privatized.

A partnership project par excellence, **the *Cité Maraîchère* will also become a place for experimentation and practical work for educational establishments** (schools, middle schools, high schools and particularly in specialized fields such as horticulture, agriculture, laboratory, health and social studies), and will welcome higher education trainees.

This project is in line with the public policies already implemented in the municipality. Indeed, it has been designed in a systemic way to be integrated into existing activities. The City has created a system to allow residents to garden in public spaces; gardening spaces have been installed in schools; composting is being developed in neighborhoods, condominiums, housing, businesses and public buildings; the Romainville CCAS (Community Centre for Social Action) organizes gardening workshops for retirees, intergenerational gardening workshops for young children and workshops to teach the beneficiaries of the guaranteed minimum income to make their own hygiene and household products, to use leftovers from the fridge, to reduce their consumption, to garden at home; the Municipal Health Center offers programs to combat overweight, combining sports activities with dietetic and physiotherapeutic monitoring; health courses have been created. Finally, in 2020, the City will also inaugurate an Eco-solidarity House including a social and solidarity grocery store. This will be supplied with fresh fruit and vegetables by the *Cité Maraîchère* and will be part of the integration project carried out by the City of Romainville.

A NEW PUBLIC SERVICE

The City of Romainville attaches great importance to the issue of access for all to a quality food supply. Today, a healthy and diversified diet is expensive and too many low-income households give up because of a lack of financial means.

Urban agriculture can contribute to the fight against food injustice and help to improve the quality of the environment and to educate people about environmental and public health issues.

In order to achieve these objectives of general interest, the City has decided to create a new public service that will make a healthy and high quality diet as well as educational activities accessible to the greatest number of people in a disadvantaged area where many people today do not have the financial means to obtain them. The City has four priority neighborhoods in its urban policy, including the Marcel-Cachin district, where the *Cité Maraîchère* is located.

These are key issues for the *Cité Maraîchère*: promoting access to fresh and healthy products for low-income households, offering environmental education for all audiences and creating a place to live and meet in a neighborhood classified as a priority in the city's policy (the Marcel-Cachin district).

Thus:

■ To give everyone access to fresh, healthy and varied products, **the prices offered to residents for market garden produce and café-canteen products will be set so as to allow low-income households to buy them.**

■ **The rates offered to the public for educational workshops and events will also be accessible and adapted to the income of each individual.**

■ **The schools in the municipality** will also benefit from **free and/or adapted rates for workshops.**

■ **The Romainville social and solidarity grocery store** (scheduled to open at the end of 2020) will benefit from **donations of agricultural products.**

In addition, in order to support the creation of training courses and modules leading to certification in the field of urban agriculture, rooms and equipment will be made available for any public teaching and/or research organization (schools, middle schools, high schools, universities, public institutes, etc.) and any public body.

The aim of the *Cité Maraîchère* is also to support the creation of jobs in the field of integration, to endorse the emergence of new job profiles in the developing sector of urban agriculture and to be a professional springboard. Free and/or adapted rates will be applied for any organization offering training to people in integration in fields related to urban agriculture and the activities offered in the *Cité Maraîchère*.

It will also be made available to any association working in the field of social issues, sustainable urban agriculture, environmental protection and awareness, healthy eating and sustainable development.

Finally, as a new public facility at the service of the local population and providing a social link, the residents and associations in the municipality will also be able to benefit from adapted rates.

The City of Romainville offers the first public service of this nature in France. In order to carry out all the activities planned in the *Cité Maraîchère*, the City has decided to set up a municipal board. After Mouans-Sartoux, Vannes and Firminy, Romainville's agricultural board is the first to be launched in a dense environment and in the form of a work integration project carried out by the City.

In order to guarantee jobs for people who are unemployed, the Municipality has also decided to create an integration project ("atelier chantier d'insertion", or "ACI") for the operation of the *Cité Maraîchère*, supported by the City, combining a variety of trades with a high potential for positive output: market gardening, catering, eco-activities and reception/sales/grocery store. **Once again, this is a first in France!**

The first employees of the *Cité Maraîchère*, a fully-fledged service within the City, will be hired at the beginning of 2020, and the integration project (ACI) will be set up during the summer.



Entrance to the Cité Maraîchère

Zoom on... the agricultural roofing of the Youri-Gagarine district

The operation of the *Cité Maraîchère* is associated with that of the first agricultural roof in the Youri-Gagarine district: a means to increase the varieties and quantities produced, to test this type of surface for a professional farm and to inaugurate the development of urban agriculture in this district that is under renewal, starting in 2016 and ending in 2027.

This social housing building, located at 10 rue Vassou, will be the first to be built in the spring of 2020. The City wanted to install the first agricultural roof in the district. Located on the 8th floor, it comprises 350 m² of topsoil over 40 cm of depth.

This roof will be dedicated solely to farming; the production will complement that of the *Cité Maraîchère*.



Roof construction site of the building located at 10 rue Vassou.

A UNIQUE MULTIFUNCTIONAL PROJECT IN FRANCE

Conceived by the Mayor during the urban renewal of the Marcel-Cachin district (led by the National Agency for Urban Renewal –ANRU– between 2007 and 2017), the *Cité Maraîchère* will offer a unique multifunctionality in France, which will meet the needs of the district and the territory.

This vertical greenhouse, dedicated to urban agriculture, will host in one place multiple complementary activities, which will mix a wide variety of audiences with:

■ **A farm:** production of fruit, vegetables, aromatic plants, mushrooms, edible flowers... complementary to the food supply from the surrounding rural areas sold through markets, community-supported agriculture (CSA model) and grocery stores. The *Cité Maraîchère*'s production, which is natural, water and energy efficient as well as environmentally friendly, will be the starting point for the development of an innovative economic sector in the area.

■ **Six educational gardens:** these areas will see the growth of vegetable, edible and melliferous species and will help to improve biodiversity in the city.

■ **A restaurant area:** it will provide a complementary and diversified offer around urban agriculture and sustainable food.

Processed products from these productions will be sold in the café-canteen for lunch. In the evening, a varied offer will be proposed through a culinary program which will welcome chefs in residence, project leaders, cultural associations, etc.

■ **Numerous** educational, cultural, culinary or scientific **events** will be organized (display booths, conferences, round tables, meetings, seminars, readings, etc.).

■ **A collective composter** will gather the waste from the educational activities, will also serve as an educational support and be the subject of fun and educational events.

■ **Spaces dedicated to education** to make Romainville the laboratory of urban agriculture through awareness-raising and pedagogy actions aimed at everyone, offers of technical training in urban agriculture for amateur or specialized audiences. This place will be a showcase for innovative techniques used in urban agriculture.

■ **A friendly and open place to develop and strengthen social ties:** it will actively participate in the life of the neighborhood as well as in the influence of the territory.

Through the diversity of its activities and audiences, the project will strengthen the social and cultural diversity of the district: this new lively place will bring together different populations and will allow for multiple exchanges between farmers, residents, consumers, researchers, professionals in the food industry, schoolchildren, students, retirees and future employees of the many urban agriculture projects that will be developed in the Greater Paris area.

The *Cité Maraîchère* will be the first laboratory to think and act on urban agriculture in France.

Vietnamese delegations visiting Romainville

On 16 January and 12 September 2019, the City of Romainville welcomed delegations of senior Vietnamese officials. This meeting allowed them to broaden their knowledge on the *Cité Maraîchère* project and on the development of urban agriculture projects.



A NEW WAY OF FARMING

> An innovative model

In order to develop the most environmentally friendly urban agriculture, the City has been working for several years with the AgroParisTech institute and INRA, which are developing a circular, ecological, productive and adapted cultivation method for soil-less cultivation in an urban environment.

It will be the first vertical greenhouse for diversified vegetable production, on a circular substrate and in a “low tech” operation.

Market garden production at the *Cité Maraîchère* will have no equivalent on the market.

Indeed, it will be the first:

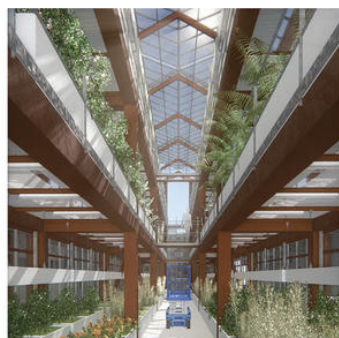
- Market garden production from Romainville.
- Soil-less, circular, ecological*, socially responsible and operational market garden production.
- Intensive production (1,000 m² of cultivation) of market garden produce using this agronomic system.
- Production on a circular substrate in greenhouses.

The *Cité Maraîchère* is therefore intended to be a laboratory for experimentation of soil-less agricultural techniques in urban areas.

> Market gardening activity in growing trays

The production is carried out in growing trays on substrate.

The latter has been adapted to the cultivation of vegetable plants through a prior action research project on the substrates, the materials used and the irrigation system. This type of cultivation is currently implemented on many farms around the world, but the modalities vary widely from one farm to another (substrate materials, lighting or heating system, fertilization methods, etc.).



Farming in growing trays

* The “Organic Agriculture” certification can only apply to open-field production, it will therefore not be possible for the market garden production of the *Cité Maraîchère*.

> A substrate made from 100% waste products

The objective of the *Cité Maraîchère's* agronomic project is to recreate a soil by reusing the city's waste (wood waste, compost, coffee grounds, etc.) in a circular economy that does not require chemical fertilizers either. In fact, the philosophy is to cultivate in an ecological way, without synthetic chemicals (fertilizer or pesticide).

In France, faced with the emergence of urban agriculture, the AgroParisTech institute has begun research on the cultivation of "technosols" composed of urban waste, the T4P (*Toit Parisien Productif Projet Pilote – Parisian Roof Productive Pilot Project*) research project, in order to meet its demands for ease of implementation and its environmental (production on soil unsuitable for cultivation, for example) and economic (low investment, relatively low operating costs) challenges.

In 2017-2018, a research project that won a CASDAR (*Compte d'Affectation Spéciale pour le Développement Agricole et Rural – Special Allocation Account for Agricultural and Rural Development*) from the Ministry of Agriculture and Food, was based on the work of AgroParisTech and tested different types of substrates according to their composition (organic urban waste and construction waste) and their preparation (mixed or stacked). This study "*Lifting the technological brakes on urban agriculture – Techn'AU*", carried out by the Astredhor Institute in partnership with AgroParisTech, Terreau Ciel, Paysan Urbain, Agricool and the City of Romainville, has made it possible to identify the optimal composition of the substrate for the *Cité Maraîchère*.

Everything is coming right back!

An ecological market gardening activity could not have been conceived without the use of composting and vermicomposting, which allow us to complete a virtuous and natural loop in which no waste is produced.

In addition to the environmental, economic and social interest of composting, it will play a key role in the project:

- as a component of the agronomic technique and solution for the treatment of bio-waste produced in situ by market gardening and restaurant activities.
- as a training medium (particularly in the new profession of "master composter").
- as an educational element for the public.
- as an activity that generates social ties and encounters.

Let us remember that composting is one of the solutions proposed to achieve the objective of generalizing the sorting of bio-waste at the source by 2025 (set by the law of 17 August 2015 on the energy transition for green growth).

It is therefore up to the community to prepare its residents for this new sorting process.

For the *Cité Maraîchère* project, particular attention was paid to the agronomic quality of the substrates. These will be used as supports for cultivation according to the principles of agroecology (crop associations, organic fertilization, etc.).

The City's expectations with regard to the substrate are as follows:

- Ensure sufficient yields.
- To be light enough to be adapted to the expected bearing capacity of the vertical greenhouse floors.
- Not to degrade too quickly to avoid having to renew the substrate too frequently (and reduce costs and handling).
- Integrate recycled products from urban metabolism into its composition, particularly those from the *Cité Maraîchère*.

The thematic working group on agronomic techniques created by the City has been meeting since September 2018 to discuss, in particular, the composition of the substrate to be used in the *Cité Maraîchère*. A sub-group has committed to work more specifically on this point. Hence, an

experiment was launched in April 2019 to test different mixes in greenhouses.

Conducted by the company Florentaise in partnership with AgroParisTech, Astredhor, Moulinot, UpCycle-La Boîte À Champignons and the City, the experiment compares a control substrate used in horticulture with 3 substrates composed of locally produced urban waste, including those to be produced at the *Cité Maraîchère*: vermicompost from food waste collected in Romainville (supplied by Moulinot), myceliumized coffee grounds, which is a mushroom cultivation waste produced in the Hauts-de-Seine (supplied by UpCycle-La Boîte À Champignons), crushed cellular concrete from construction waste from the Île-de-France region (supplied by Florentaise) and beer grain from breweries in the inner suburbs (supplied by Moulinot).

The experiment will be carried out over several cultivation cycles to test different species according to the seasons.



Photos of the experiment on local circular substrates conducted by the company Florentaise.

Focus on experimentation with local circular substrates

The objective of the experiment, conducted by the company Florentaise, is to produce a growing medium (substrate) that meets the technical and ethical constraints specific to the *Cité Maraîchère*.

A test phase has been underway since April 2019 on the company's research and experimentation site in Saint-Mars-Le-Désert (44). Four types of substrates are being tested in growing trays in a greenhouse, as close as possible to the growing conditions of the future urban farm: a control mode inspired by a substrate already marketed by Florentaise (Urbapotager 3 composed of pozzolana, composted bark, sedge peat, biofumur (double fertilizer), NPK organic fertilizer), tested under growing conditions and compared with three other mixtures composed of urban waste products from the Île-de-France region.

These "wastes" are:

- vermicompost from food waste collected in Romainville (supplied by Moulinot).
- myceliumized coffee grounds, which is a mushroom cultivation waste produced in the Hauts-de-Seine region (supplied by UpCycle-La Boîte À Champignons).
- crushed cellular concrete from construction waste from the Île-de-France region (Copolight® supplied by Florentaise).
- ground beer grains from breweries in the inner suburbs (supplied by Moulinot).

Composition of the mixtures of the 4 modalities:

	Urbapotager 3	Copolight®	Vermicompost	Myceliumized coffee grounds	Ground beer grains
M1 (control mode)	85%	15%			
M2		20%	80%		
M3		15%	60%	25%	
M4		15%	60%		25%

The test is carried out in 0.5 m³ (110 cm x 110 cm x 40 cm) trays in a greenhouse. The 1st growing cycle included cherry tomatoes, red peppers, butternut squash, sweet potatoes, radishes, lettuce and basil.

Physical and chemical characterizations were carried out and biological parameters were studied (such as plant sizes, stem diameter, number of plants, flowers and fruits, germination rate, marketable weight of the crops, etc.).

The initial observations of this ongoing experiment are very encouraging with regard to the level of production obtained with circular substrates, especially M2 and M3.

> An integrated and scalable cultivation system

The design of the *Cité Maraîchère* of Romainville has been optimized by integrating many parameters: load-bearing capacity, diffusion of light in the floors, integrated watering, etc.

The growing trays long rooted species (such as carrots) and some trays are arranged on two superimposed levels to increase the cultivation area.

Watering is done by drip or sprinkler depending on the type of crop, with a programmable system whose flow rate is adjustable according to the water requirements of the different planting areas.



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Inside a greenhouse at the Cité Maraîchère

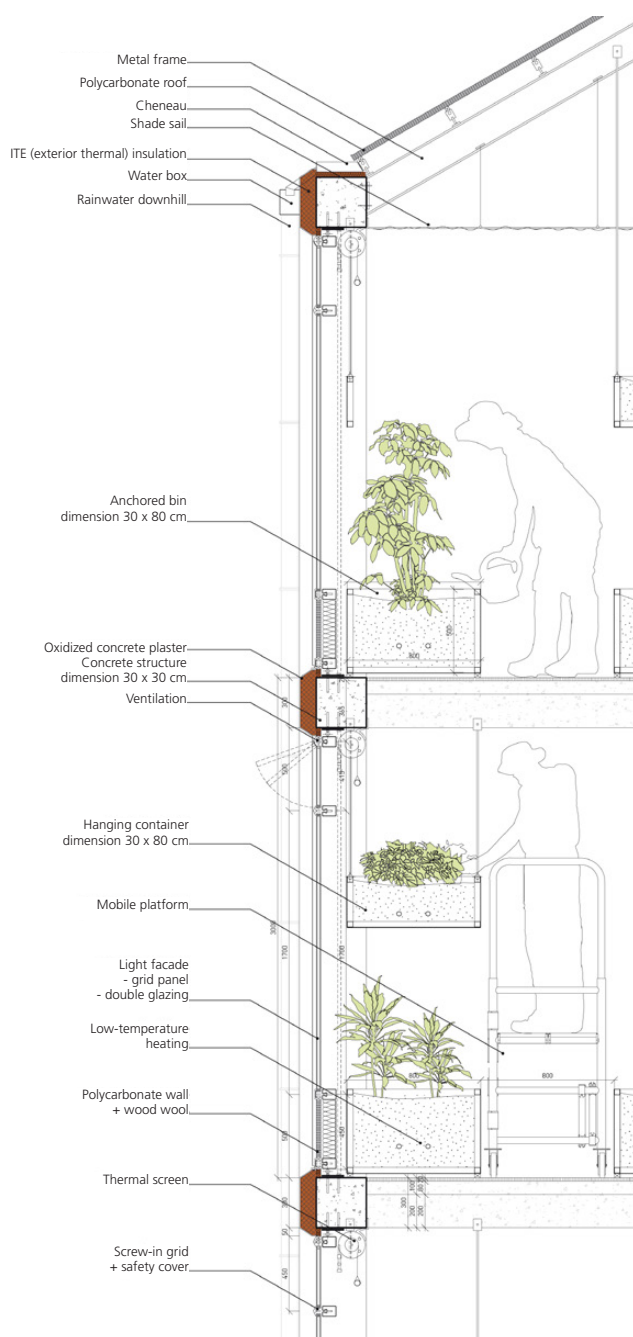


Diagram of the cultivation in growing trays

> A varied, natural and seasonal production

In order to provide the residents with fresh and healthy products, to cultivate in an ecological way and to participate in raising the awareness of the population on environmental issues, the production of the *Cité Maraîchère* will respect strict specifications:

- no synthetic chemical inputs.
- seasonal production.
- diversified crops.
- common and ancient varieties, even tropical varieties if a demand emerges among the residents.

The eating habits of the people of Romainville

Between May and August 2019, a survey was conducted among residents to find out their eating habits (particularly with regard to fruit and vegetables) and to assess their interest in consuming products grown in trays at the *Cité Maraîchère*.

83% of those surveyed said they eat fruit and vegetables every day and 28% buy these products in organic shops or cooperatives (i.e. outside traditional channels such as supermarkets or markets).

Out of 164 responses, 93% of those surveyed said they were ready to buy and consume the produce of the *Cité Maraîchère*!

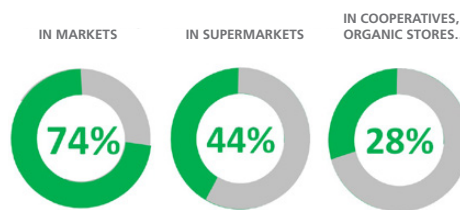
83% of people polled say

they eat fruits and vegetables daily

11% every two days, 3% every four days and 3% rarely

PURCHASING HABITS

Respondents buy their fruits and vegetables



93% of those surveyed



ready to buy fruits and vegetables produced in substrate in the future greenhouse.

> Technical and scientific monitoring

Considering the innovative nature of the agronomic model, the cultivation is run in conjunction with the scientific and technical partners of the project through the thematic working group on agronomic techniques. The latter, which is composed of AgroParisTech, INRA, Astredhor, the Ministry of Agriculture, the Florentaise companies, UpCycle-La Boîte À Champignons and Moulinot, provides technical and scientific support through:

- The monitoring and evaluation of agronomic systems, economic impacts (sales, distribution network, etc.), social impacts.
- The analysis and consideration of studies and survey results.
- the recognition of needs (jobs, training, etc.).

The cultivation or farm will be subject to quantitative and qualitative monitoring based on regular measurements and data collection. This data may be analyzed at meetings of the working group.

Finally, the results and data from the cultivation will be open and freely shared. According to the principles of open data, this information will be freely accessible and made available to any organization that requires it for research purposes.

This working group has been meeting approximately every quarter since September 26, 2018.



The Scientific Council meeting in June 2018

Some definitions

An **input** is an element entering a production process. In agriculture, it refers to the products brought to the land/substrates and crops: seeds, fertilizers, soil improvers, plant protection products, activators and growth retardants.

Vermicompost is a product resulting from vermicomposting: organic matter ingested, digested and excreted by worms.

A **substrate**, or growing medium, is the element in which a plant attaches itself and draws the minerals it needs. In nature, arable land is the basic substrate, but it is also possible to use substrates reconstituted from different elements to meet the specific needs of each plant.

Circular substrate: substrate composed of recovered waste (i.e. elements diverted from waste status), based on the principle of circular economy, which does not create waste but in which the waste produced on one side is reused elsewhere to obtain a new product. Some examples of elements used in the composition of cultivation substrates: compost (from green and food waste), mineral drainage from crushed construction waste such as aerated concrete, bricks or tiles, grinding from pruning waste, residues from a mushroom cultivation, myceliumized coffee grounds (from the recovery of coffee grounds).

Technosol: a new type of soil that combines soils of technical origin, i.e. man-made. They contain elements that are manufactured or extracted from the earth. These include soils made from waste (landfills, sludge, mine tailings and ashes), pavements with their unconsolidated underlying materials; soils with geomembranes, and soils made from synthetic materials. Technosols are often referred to as urban soils or mining soils.

AN AMBITIOUS ECONOMIC AND SOCIAL PROJECT

The City is accompanied in this project by experts in the social and solidarity economy (SSE) to develop an ambitious project to serve the residents of the territory. The *Cité Maraîchère* was conceived to create local jobs that cannot be relocated and that are meaningful, in order to encourage the integration of unemployed people. Market gardening will also make it possible to develop new skills and local knowledge, as well as professional qualifications for local residents in the trades of the future.

> The “Cité Maraîchère” will create jobs and professional opportunities:

■ **The creation of jobs**, some of which will be in the form of integration programs for local residents. The number of jobs will vary according to the activity.

■ **Varied course offers** more adapted to the profiles of unemployed people: Workers specialized in vegetable production, facilitators of environmental and sustainable development educational activities, reception officers, catering agents, waiters, grocery clerks. The variety of courses should improve the rate of return and/or access to employment and be of interest to more people (especially women and young people).

■ **Training and professional qualification** in sectors that are recruiting, such as catering or hosting.

■ **The development of a new economic sector**: The *Cité Maraîchère* will be the flagship of an enlarged farm throughout the territory. This economic sector will complement (and not compete with) traditional peri-urban and rural agriculture, thus strengthening an existing territorial ecosystem.

■ **The development of new local skills** based on sustainable practices, thus helping to raise public awareness of the challenges of ecological transition.

■ **The provision of the kitchen for the reception of project leaders** in the field of sustainable food processing, in order to allow them to test their project in real conditions (materials, customers, supplies).

■ **An outreach project for the area:** The *Cité Maraîchère* will strengthen the attractiveness of the neighbourhood and enhance the image of the City, the Marcel-Cachin district and its residents.

By supporting the creation of jobs, particularly in integration, by offering a variety of career paths and by supporting the emergence of new job profiles in urban agriculture, the *Cité Maraîchère* is intended to become a professional springboard for the residents of the area and all professionals in this sector or to spark the interest in developing sectors that provide activities and jobs.

*View of
the educational
gardens*



© ilmeigo - Secousses



*View of
the agricultural
cultivation*

© ilmeigo - Secousses

A PLACE OF SOLIDARITY AT THE SERVICE OF HEALTHY EATING

> Providing access to healthy food for all

The City of Romainville has developed its *Cité Maraîchère* project to respond to many social issues.

Because making healthy, high-quality food available to as many people as possible is the *raison d'être* of this new public service, this facility will offer fresh, healthy and varied products in a city where many residents today do not have the financial means to obtain them. Also, the proposed rates offered to the population for market garden produce and small restaurants will be set so as to allow low-income households to benefit from it.

In addition, the Romainville social and solidarity grocery store (scheduled to open at the end of 2020), associated with the integration project, will benefit from donations of products from agricultural production sites.

> Diversifying public health actions

■ A place of awareness

For many years now, the City has been developing awareness-raising activities on health and nutrition issues for all audiences, especially school children.

The *Cité Maraîchère* will therefore ensure an awareness-raising and educational mission, complementary to the public policies carried out by the City in terms of public health.

■ “From garden fork to fork”: a place for responsible consumption and purchase of fresh produce

The issues at stake in the café-canteen are as follows:

- Respond to the need for improved nutrition and the link between health and nutrition
- Offer an on-site consumption of cultivated products
- Benefit from adapted equipment and fresh products to teach or re-teach people to cook in season and to eat healthy.
- Meet a growing demand from the population to know the origin and quality of products.
- Access to a restaurant menu offer based on healthy and local food.

> A new lively place, the café-canteen

It consists of a bar and a restaurant with 50 seats.

The café-canteen will offer dishes and drinks, at rates adapted to the population, prepared from seasonal products from the cultivation, organic farming and fair trade or from short circuits and/or local producers.

> A rich and varied culinary program

In the evening, the *Cité Maraîchère* will welcome associations, chefs and project leaders in the field of sustainable food processing accompanied by incubators.

It will also be able to host any organization for culinary events related to sustainable food, food solidarity or cultural diversity as well as chefs in residence.

The Eco-solidarity House

In an approach of prevention, remobilization and enhancement of the most disadvantaged groups, the Eco-solidarity House will continue an innovative and participatory social policy, by bringing together in one place several social services that promote social diversity and sustainable development.

The Eco-solidarity House, located near the *Cité Maraîchère*, will open its doors in the fall of 2020 and will host:

- A solidarity grocery store that will benefit from products from the *Cité Maraîchère*

- A space for the CCAS "Ateliers Malins" ("Smart Workshops").

- An educational garden

- A collaborative space for sharing and expressing solidarity.

The Eco-solidarity House will participate in the Integration Workshop: employees in integration will work at the solidarity grocery store and will be able to lead workshops.



The café-canteen of the Cité Maraîchère

A PLACE OF AWARENESS, EDUCATION AND TRAINING

Organization and hosting of educational workshops, training and experimentation in professional fields... the *Cité Maraîchère* will play a key role in the dissemination of knowledge and the development of new skills.

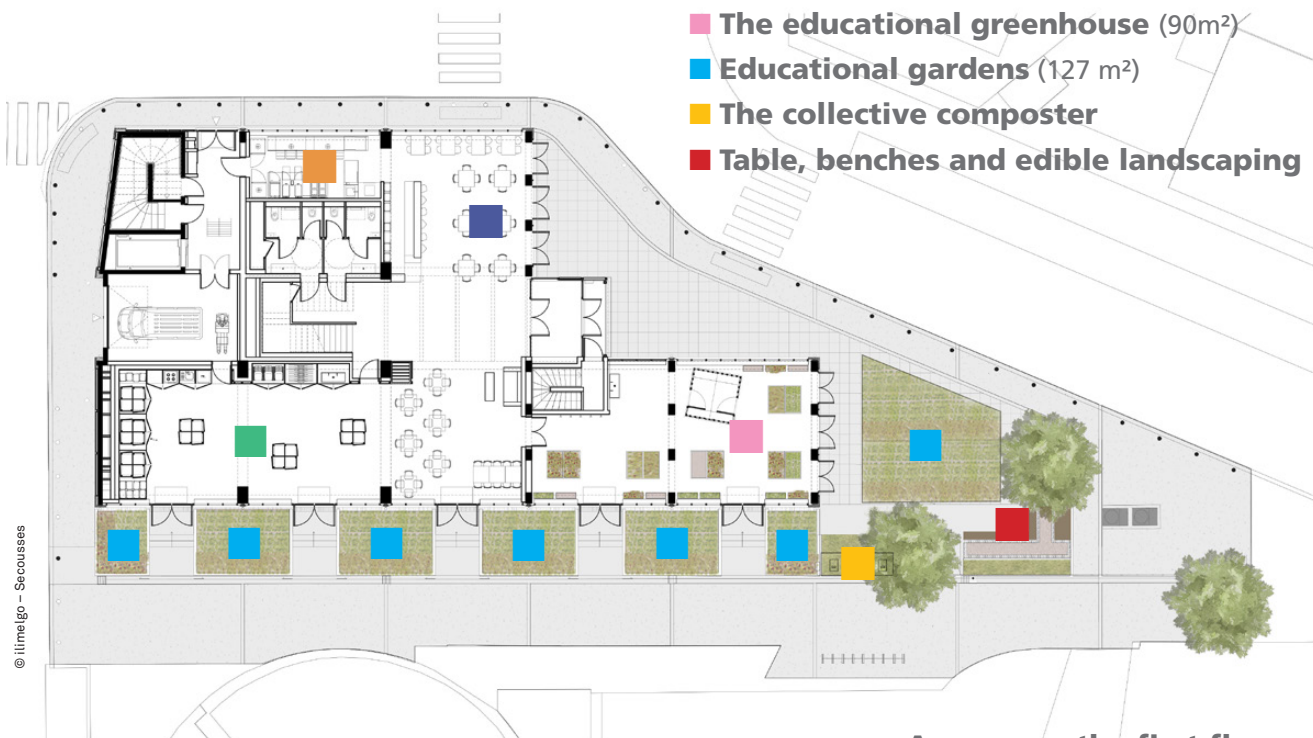
> Spaces dedicated to pedagogy

■ **On the ground floor:** a large modular space of 110 m² (for training, workshops and conferences) and a 90 m² educational greenhouse.

■ **On the first floor:** a 36 m² room with a direct view of the market gardening area will complete the offer of spaces accessible to the public for training, workshops or meetings.

■ **Outdoors:** 7 open-air plots dedicated to collective and educational gardening and edible landscaping (fruit trees, berries, etc.) to allow passersby and local residents to see grow, pick and eat fruit, vegetables or aromatic herbs free of charge.

- **Modular space** (110 m²)
- **The kitchen for culinary programming**
(23 m² of preparation + 50 m² of lab in the basement)
- **The solidarity café-canteen** (63m²)
- **The educational greenhouse** (90m²)
- **Educational gardens** (127 m²)
- **The collective composter**
- **Table, benches and edible landscaping**



+ A room on the first floor
= lookout point on the crops (36m²)

Map of the ground floor of the Cité Maraîchère

> Educational workshops for everyone

The *Cité Maraîchère* will organize and host many educational activities. Different levels of intervention will be arranged depending on the public: schoolchildren, the public of the various municipal services (including the Recreational Centre for Seniors, the Community Center for Social Action, the Municipal Center of Health, the early childhood service and local areas), professionals and the general public.

- Awareness-raising activities on sustainable agriculture, healthy eating, zero waste, energy and water savings.
- Educational activities for school children, the general public and professionals.
- A permanent cycle of workshops for amateur gardeners.
- Technical training for specialized audiences.
- Spaces, equipment and data made available for practical work, tutored projects, internships, research projects, etc.
- Urban walks.

The establishment of gardening workshops for and by students.

In the spring of 2019, inter-class and inter-school gardening workshops were organized at Marcel-Cachin Elementary School, located near the *Cité Maraîchère*, and at Gustave-Courbet Middle school. They brought together a 5th grade class and a 3rd SEGPA horticulture section class.

Initially, the 5th grade pupils went to the middle school to sow the seedlings with the help of the 3rd grade students. A few weeks later, they went to the school to transplant the seedlings in the pots installed in the playground, under the supervision and with the advice of their teachers.

Cité Maraîchère
Educational Gardens



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> Support for the creation of training courses/modules leading to certification:

The *Cité Maraîchère* aims to support the creation of courses and training modules leading to certification in the new economic sector of urban agriculture. To this end, it will provide rooms and equipment for any public educational and/or research organization (schools, middle schools, high schools, universities, public institutes, etc.) and any public body.

> A complementary offer to the activities already proposed by the municipality such as:

- The Educational Action Service and the City's Youth Information Point (PIJ) for workshops for families and young people.

- The Louise-Michel Municipal Health Center for the organization of workshops on nutrition and healthy and sustainable eating, the "Move in the City" workshops.

- The CCAS of Romainville oversees the "Ateliers Malins" ("Smart Workshops") activities (educational activities for disadvantaged groups based on the idea of "doing it yourself") and the retirement leisure activities of the Recreational Centre for elderly people with the "Garden Passion" club.

- The City's Early Childhood and Childhood and Education Services for workshops for children.

- Urban agriculture programs such as "Garden of Excitement" and neighborhood composters.

- The educational gardens installed in the Maryse-Bastié, Marcel-Cachin, Gabriel-Péri, Paul-Vaillant-Couturier schools.

The City's Romain-Rolland Media Library, located opposite the *Cité Maraîchère*, will host a resource center and a collection of documents on related themes.

The operation in management will facilitate collaborative work with the various departments of the City of Romainville in order to develop these activities.



© limeigo - Secousse

**Cité Maraîchère
educational area**

> Educational, cultural and scientific events

Throughout the year, specialized events will be held for a variety of audiences, including companies that will be able to access an offer of equipped rooms and thematic content for their events.

The *Cité Maraîchère* will develop a range of cultural, educational and scientific events (disco soups, scientific symposia, national action events such as the European Sustainable Development

Week, Earth Day, World Environment Day, Taste Week, etc.) which will make it possible to reach different audiences accompanied by the various municipal services (students, pensioners, community center for social action, young people, etc.), but also local residents and employees, as well as all those who are curious.



Feel like gardening in the city?

In 2017, the City launched a participatory system for the greening of public spaces, called "Garden of Excitement". This operation allows plants and flowers, edible or ornamental, to be planted in public spaces on sites identified by the City (municipal planters, green spaces) all over the municipality. It is also possible to make proposals and choose new sites.

To participate, all you have to do is apply to the town hall and agree to respect certain rules (use organic manure, do not plant invasive species, etc.).

The City and its associated partners advise and accompany the residents.

The *Brico-recovery* workshops

Since October 2019, residents are invited to participate in the completion of the *Cité Maraîchère* by making some of the furniture! The “brico-recovery” workshops: participatory workshops to make furniture from recycled elements; the tables, chairs and stools that will be installed in the café-canteen and the reception area of the *Cité Maraîchère* will be made by and for the residents!

The *Cité Maraîchère* is therefore designed for them and by them! These educational, fun, ecological and manual activities also allow them to learn how to make things themselves (make, repair, customize), to meet their neighbors, and to be aware of the issues of waste and eco-consumption.

The workshops are led by local associations: La Grande Ourcq (Romainville), La Collecterie (Montreuil) and La ReQuincaillerie (Pantin).



*Brico-recovery
workshops*



AN ARCHITECTURAL AND TECHNICAL INNOVATION

Unveiled in February 2016, the building for the *Cité Maraîchère* was designed as part of a limited project management competition based on a sketch launched in 2015, in order to create an agricultural and multifunctional facility that is unique in France. The project of the team conformed by Ilimelgo, Secousses, Scoping, Etamine, Terreauciel and Land'act was selected.

> Construction principles

The specifications for the consultation required coherence between the ambition of functional efficiency in the service of responsible market gardening, the desire to create a place of exchange and social connection and the integration of the building into the neighborhood.

The essential needs met by the architecture of the building are as follows:

- **the supply of natural light** to allow the best possible crop yield and reduce energy consumption.
- **solar and thermal protection.**
- **the legibility of the access.**

The project management team chose to spread the operating area over two wings: the doubling of the façades made it possible to adjust the heights to limit the shadows cast and thus promote the development of the crops.



Cité Maraîchère
Perspective

> An innovative building

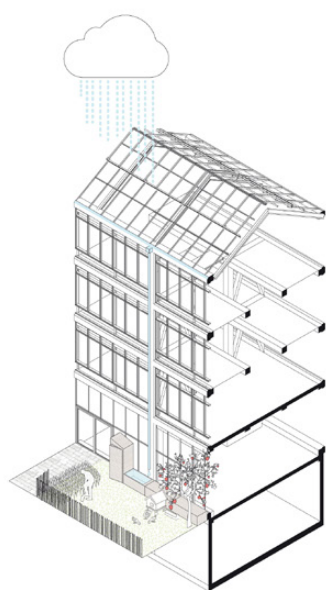
The layout, volumes and materials have been designed to maximize the supply of natural light. The interior, technical and storage facilities will provide optimal working conditions for the operation of the *Cité Maraîchère*.

To ensure ecological production, the project includes natural ventilation and lighting, rainwater recovery for watering and fine control of solar openings and shading, backed by a mini weather station to optimize settings.

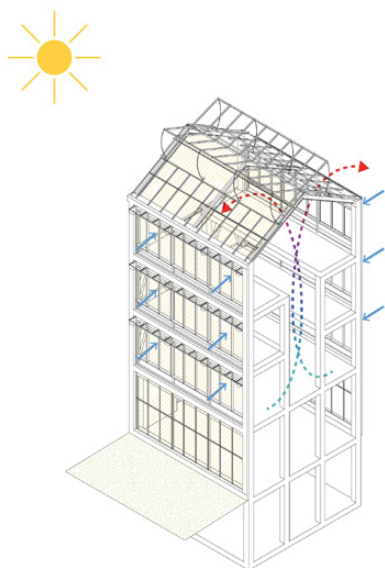
In order to create a **multifunctional space capable of simultaneously accommodating crops and the public,** the architects designed two buildings in one: a part with a reinforced

thermal envelope on the ground floor for the reception of the public, on which a six-story agricultural building is placed, reserved for the cultivation and offices.

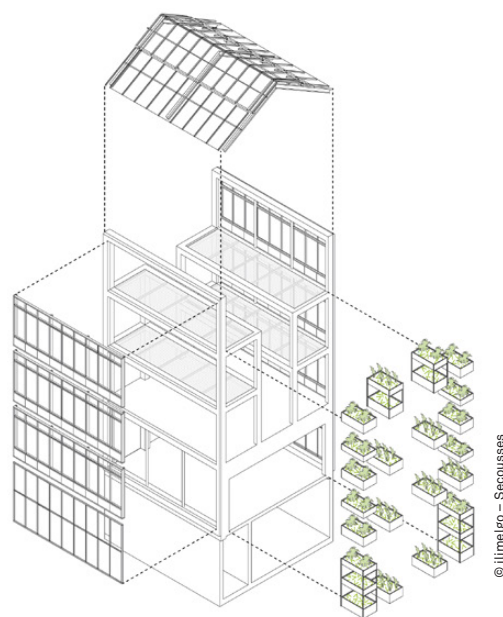
Finally, **in order to carry out a sustainable project,** the designers of the project devised a reinforced envelope for better insulation of the building, mobile and thermal screens to limit heat loss in winter and to combat overheating in summer. The management and control of the technical installations will be optimized to allow fine regulation of irrigation. Lastly, the use of bio-sourced materials has been favored (use of cork for the external insulation of the concrete structure).



Reduction of consumption:
managing, storing and redistributing
the "water" vector.



Renewable energy:
take advantage of solar energy and ventilate
to avoid overheating during the day.



Prefabrication:
design a constructive device based on the prefabrication
of elements (structure, facades, containers, etc.) and
create inertia to restore the excess calories stored at night.

A green building:

- use of bio-sourced materials
- wood boiler for the public area
- recovery of rainwater for watering
- natural ventilation, no heating or artificial light in the market gardening areas to minimize energy consumption
- mobile and thermal screens to limit heat loss at night in winter and to combat overheating in summer
- intelligent bio-climatic management of crop areas (probes, sensors, piloting, monitoring and computer management of equipment, etc.)
- mini weather station integrated into the building to adapt the settings.

PROJECT PARTNERS

> Expanded governance

In order to gain expertise, develop the project in a participative way and ensure the monitoring of the results and the dissemination of data, the City decided to set up a Scientific Council composed of experts in the key areas of the project: research institutes, associations and actors of the specialized ESS, local SMEs, partner communities, consular chambers, citizen councils, potential patrons, Prefecture.

The Scientific Council has an advisory role and aims to accompany the development of the *Cité Maraîchère* over time. It meets once a year to discuss the progress of the project. It met for the first time on 13 June 2018.

At this meeting, the Scientific Council decided to create four thematic working groups to measure, monitor and improve the local impact of the project on specific and key aspects of the project: employment, education, agronomic techniques and communication.

They meet approximately every quarter to monitor the implementation of the project, advise the City and support the operator. These meetings will also be a way to share the results and data from the *Cité Maraîchère's* operations.

■ **The Employment Group**, composed notably of Est Ensemble, the Departmental Council, the Employment Center, the Local Mission and the PLIE Together for Employment, has the following main tasks

- > to monitor job creation and the integration of people after their professional integration.
- > to connect job supply and demand.
- > to disseminate and promote job offers and training courses.
- > to support the operator in defining its needs and the availability of local skills.

■ The main tasks of **the Agronomic Techniques group**, which includes AgroParisTech, INRA, Astredhor, the Ministry of Agriculture, the Florentaise companies, UpCycle-La Boîte À Champignons and Moulinot, are to:

- > monitor and evaluate agronomic systems, economic (sales, distribution, network...) and social impacts.
- > analyze and take into account studies and survey results.
- > identify needs (jobs, training, etc.).

■ **The Education group**, which includes local representatives of the Ministry of National Education, local schools, AgroParisTech, the Departmental Council, the Montreuil Horticulture and Landscaping Trade High School and the IPAG Business School, has the following main tasks:

- > monitor and evaluate educational activities (number of training courses and educational activities, number of graduates and participants and follow-up, etc.).
- > design appropriate workshops.
- > identify the requests for educational activities and plan them.

■ **The Communication** group's main tasks are to:

- > prepare scientific communications.
- > develop a shared communication strategy.
- > plan public events.

These thematic working groups met for the first time in September 2018. These first meetings made it possible to present the project and its issues with regard to each of the themes, to initiate the co-construction process with the partners and define the modalities, to define the objectives for each of the groups, and to define an initial work schedule for each of the themes.

This system of governance, based on the voluntary participation of many partners, guarantees the monitoring of the project in all its dimensions: social, environmental, economic, regulatory, health, cultural.

> The project management team

A multidisciplinary team was chosen, combining skills and references in the field of controlled bioclimatic environments and urban agronomy.

■ **ILIMELGO** (commissioned architects) studies and builds equipment for presentation greenhouses and market gardens in a controlled environment combining heat production systems, ventilation and illumination within efficient thermal envelopes.

■ **SECOUSSES** (associated architects) designed the project in a sustainable way, combining innovative techniques, bio-sourced materials and traditional know-how.

■ **TERR'EAU CIEL** (urban agriculture design office) is made up of agricultural engineers who bring a new and innovative vision to the urban planning professions with the aim of renewing the link between city-dwellers and the rural world.

- **SCOPING** (engineering and design office for all trades) has demonstrated global management and networked technical know-how.
- **ETAMINE** (HQE design office) is a specialist in environmental building design and sustainable development.
- **LAND'ACT** (landscape designers, from the most urban to the most natural) deeply committed to ensuring that the city welcomes nature with the place it deserves.

> Project actors

> Financial partners

A strong public commitment to the construction project:

- **The Île-de-France Region** is supporting the development of urban agriculture in Romainville as part of the call for projects "100 innovative and ecological neighborhoods" and has awarded a grant of €1,022,552.53.
- **The State**, as part of the allocation to support local public investment, awarded a grant of €1,000,000.
- **The Greater Paris Metropolis**, within the framework of the Metropolitan Investment Fund, awarded the project a grant of €100,000.
- **The Seine-Saint-Denis Departmental Council** is supporting the project with a grant of €250,000.

The FoodE project

The City of Romainville is a member of a European consortium created in 2019 as part of the Horizon 2020 program proposed by the European Commission to carry out the FoodE project (Food systems in European cities). The aim of the FoodE project is to accelerate the development of citizen-led local food systems by bringing together local initiatives across Europe and collaborating in the development and dissemination of a range of tools designed jointly with universities, citizens and new businesses in the food sector. The main challenge of the project is to bring together the most sustainable models of local food systems, and to enable the co-creation of innovative pilot projects that promote the health and well-being of European citizens.

The FoodE project consortium, led by the University of Bologna (Italy), has 24 members including research centers, start-ups, associations and municipalities from 9 European countries.

The FoodE project started on 1 February 2020 and will run for 4 years, until 31 January 2024.

> The commitment of private sponsors

The *Cité Maraîchère* project has been recognized as a project of general interest by the tax authorities. Thus, the City can issue tax receipts allowing donor organizations to benefit from a tax reduction of 60% of the amount of their donation.

Companies have already responded to the City's call to support its project:

- **Nexity.**
- **COGEDIM Paris Métropole.**
- **Nafilyan & Partners.**
- **SCCV Horloge Vaillant** (BNP immobilier and COGEDIM).
- **SCCV Romainville Neoparc** (Pitch Promotions and Vinci Immobilier).
- **SCCV Romainville Chairman Wilson.**
- **Les Nouveaux Constructeurs.**

> Technical partners

■ **AFAUP** (French Association of Professional Urban Agriculture) has drawn up a charter to commit contractors to a responsible urban agriculture project, which the municipality of Romainville was the first city to sign in July 2018. Thanks to its network of members, AFAUP is helping the City to promote the innovative model of the *Cité Maraîchère*.

■ **AgroParisTech:** the institute is a major and historic partner of the project by supporting the City on agronomic and educational aspects and academic partnerships.

■ **Association Lab3S**, created by the EPT Est Ensemble and the IRD to bring together an open network of public and private actors and to develop a showcase of excellence on urban agriculture and healthy and sustainable eating to the east of Greater Paris. It is working with the City to implement joint and complementary actions on the agronomic, educational and structuring aspects of an accommodation offer for project leaders in the field of sustainable food processing.

■ **ASTREDHOR**, a technical institute of horticulture, supports the City on the agronomic aspects of the project.

■ **Baluchon**, a social and solidarity economy company based in Romainville, specialized in sustainable food processing and member of Lab3S, has supported the project from the beginning and is assisting the City in the professional integration aspect of the project and the creation of an ecosystem of complementary and local actors and skills.

■ **Cultivons la Ville**, a collective of associations that develops and promotes integration paths through urban agriculture, has accompanied the City on the model of integration and employment.

■ **Espaces**, an association combining ecology and professional integration, has supported the City through a mission to prefigure the operation of the *Cité Maraîchère* to work on the model of integration and employment.

■ **Regional Public establishment Est Ensemble**, supports the project in its areas of competence in connection with its public policies such as waste (neighborhood composter, bio-waste collection, awareness-raising actions on prevention, waste sorting and reduction, combatting food waste, re-use, etc.), employment (Employment office, coordination of the network of local employment actors), economic development, and City policy.

■ **Florentaise**, a company specializing in the development of innovative products and components for the cultivation, food and health of plants, supports the City in the technical aspects of the agronomic model. For example, it is conducting an experiment on different compositions of circular substrates to help the City determine which one(s) will be used in the *Cité Maraîchère* trays.

■ **The Seine-Saint-Denis Departmental Council** is also supporting the project in its areas of competence in relation to its public policies on integration and solidarity, ecological transition, environmental equality, urban biodiversity, and recognition of local production through the “In Seine-Saint-Denis” brand.

■ **The IPAG Business School of Paris**, supports the City on the educational aspects and academic partnerships of the project, in particular through its Chair of Collaborative Economy ETXECO.

■ **The PLIE “Together for Employment”** of the territory Est Ensemble is supporting the City in the professional integration aspect of the project.

■ **Moulinot**, a social and solidarity economy company specializing in food waste management in the Île-de-France region, collects food waste from schools, the central market and an entire Romainville district. Moulinot is supporting the project by making the vermicompost it produces and markets available to the City to carry out tests and define the components of the circular substrate that will be used at the *Cité Maraîchère*.

■ **UpCycle-La Boîte À Champignons**, a social and solidarity economy company specializing in the production and marketing of mushrooms grown on circular substrates, is supporting the City by providing mushroom production waste to carry out tests and define the components of the circular substrate that will be used at the *Cité Maraîchère*.



PROJECT SCHEDULE

2012

- Project launch, presentation of objectives to residents

2016

- Selection of the project management team and presentation of the architectural and technical project to residents.

2017

- Presentation of the cultivation project to residents

MAY 2018

- Presentation of the socio-economic and educational aspects of the project to residents.

JUNE 2018

- First Meeting of the Scientific Council

JANUARY 2019

- Construction begins

NOVEMBER 2019

- Second meeting of the Scientific Council

BEGINNING 2020*

- Recruitment of first-time employees

SUMMER 2020*

- Handover of the building

AUTUMN 2020*

- Start of activities

*Provisional schedule.

AROUND THE “CITÉ MARAÎCHÈRE”

■ Romainville, a sustainable and innovative area in the heart of the Greater Paris Metropolis

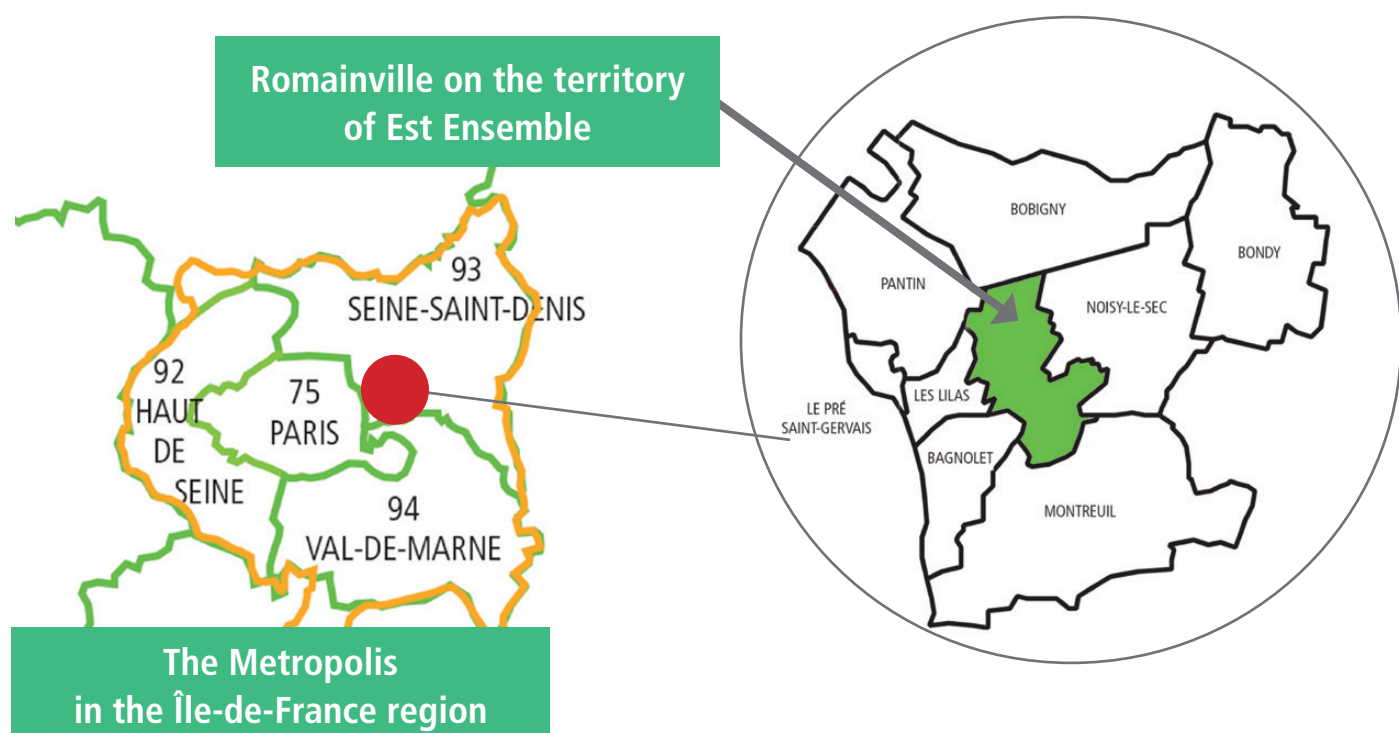
Romainville is located 3 km east of Paris, at the eastern end of the hill of Belleville, in the department of Seine-Saint-Denis (93) and the Île-de-France region. With 344 hectares, the municipality has 26,510 inhabitants (INSEE 2016). It belongs to the Territory of Est Ensemble, which includes nine towns and more than 400,000 inhabitants.

Romainville is a key area of the Paris metropolis, soon to be connected to heavy transport networks (line 11 in 2023, Tramway T1 in 2024 and the TZen 3 along the RN3 axis in 2023). The strengthening of public transport, the economic changes underway, linked to the area's industrial past, and its popular character are all development prospects for the city.

The requalification completed or in progress of all social housing districts, and the implementation of structural development operations show the municipal will to ensure the sustainable development of the area.

The Municipality of Romainville has also been committed for many years to a proactive approach aimed at ensuring sustainable economic development.

The support for the establishment and growth of the offer of tertiary premises and activities now makes it possible to meet this long-term challenge. It is in this sense that the municipality resolutely supports the development of social and solidarity-based businesses whose activities cover the field of sustainable food, such as Baluchon, Re-belle and Le Paysan urbain.



■ Developing urban agriculture and sustainable food

Seine-Saint-Denis has long been an agricultural land. Until a relatively recent period, the municipalities in the inner suburbs, and in particular Romainville, have had small-scale market garden farming, ensuring part of their supply of early fruit and vegetables.

Today, there is still a significant “private” production from numerous private gardens and workers’ gardens, as evidenced in a characteristic “strip” plot. However, in the face of intense competition for land from industrial and then residential activities, the Séquano-Dionysian agricultural sector has been reduced to the bare minimum.

Based on studies carried out in 2012 by the SOA firm, completed by INRA - AgroParisTech and Urbagri in 2013/2014, the Municipality has designed a multi-faceted farming project that takes into account the land issues of cost and pollution. Thus, in order to limit the footprint, it has imagined a real agricultural sector on the scale of the municipal territory by carrying out the project of a *Cité Maraîchère*, rooftops and complementary market gardening activities in the open ground (orchards, etc.).

The development of an urban agricultural sector on the territory must make it possible to meet the following challenges:

- developing an agricultural sector on the scale of the city.
- create an offer of integration and training in the field of agriculture and related sectors (food processing, logistics, composting, etc.).
- to raise awareness among residents about ecology and responsible eating.
- to promote the region as a force for innovation in urban planning and sustainable development, particularly at the 2024 Paris Olympics.

Since 2015, the Municipality has been working to develop an emerging economic sector in all its forms. In particular, it supported the activity test of the urban farm project specializing in the production and marketing of microgreens, led by Le Paysan Urbain, and has installed agricultural roofs in the Youri-Gagarine district and on the Soléos residence in the Bas-Pays district.





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