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## Vulnerabilities and sounds Vulnerabilities vs environment

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# Winter School CRESSON

## 22/01/2021 – Vulnerability & environment

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## **Thesis subject**

Housing design through sonic experiments.

1.1 scale prototype experimentation of cooperative living through listening.

**Thesis – Location : Macro-lot B – ZAC Gratte-Ciel, Villeurbanne (69) near Lyon.**



*Vue aérienne du projet Gratte-ciel "Centre-ville"*

# Thesis – Environment : Urban agriculture



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## **Vulnerability & environment**

## **Vulnerabilty & Environment trough urban agriculture**

- How has the pandemic changed our knowledge and definition of our daily sound environment ?
  - Individual / shared
  - Times and spaces
  - Interiority/exteriority

**Focus on the local perception.**

## **Vulnerability & Environment, pandemic/daily sound environment.**

- How has the pandemic changed our knowledge and definition of our daily sound environment ?
  - Individual / shared
  - Times and spaces
  - Interiority/exteriority
    - Focus on the local perception.
- A quieter sound environment : less mechanical sounds and more interiorities

What can we learn from these new everyday sound environments?

What do we want to keep for tomorrow's sounds ?

How do we listen to our environment and housing, and how do we use post-carbon urbanity to make a collective commitment to the environmental ambitions of a sustainable city ?



## **Vulnerabilty & Environment** trough urban agriculture

- Local priorities :

- social interactions

- Access to nature : can the lack of access to nature in our dense cities then be considered as a collective vulnerability ?

- Nature in the city by the act of doing

- Urban agriculture

How can it offer access to new atmospheres, to a quality of life in a reorganized city (socially, spatially, economically and from an environmental point of view) ? What impacts can urban agriculture have on the senses and our understanding of our living spaces ?

How will spatial, temporal and sound relations be articulated between urban dwellers and potageurs ?

## **Sound recordings of urban agricultural sites**

## Corpus : Urban agriculture - Protocole

- Calibrate the sound level meter
- Check the time stamp of the recorder ZOOM
- Launch the two devices for at least 1 hour in a fixed position and start with one or more sound claps to adjust the timeline.
- Record information and appearances of sonic events :
  - Materials
  - Plant essences
  - Animal species
  - Special sonic events
- Take photos, videos and aerial view with GPS position



Corpus : Urban agriculture, Opéra Bastille, Paris 12



Corpus : Urban agriculture, Swimming pool rooftop, Paris 11



# Corpus : Urban agriculture : V'île fertile, Nogent/Bois de Vincennes



## **Questions on Vulnerability & environment**

## Questions

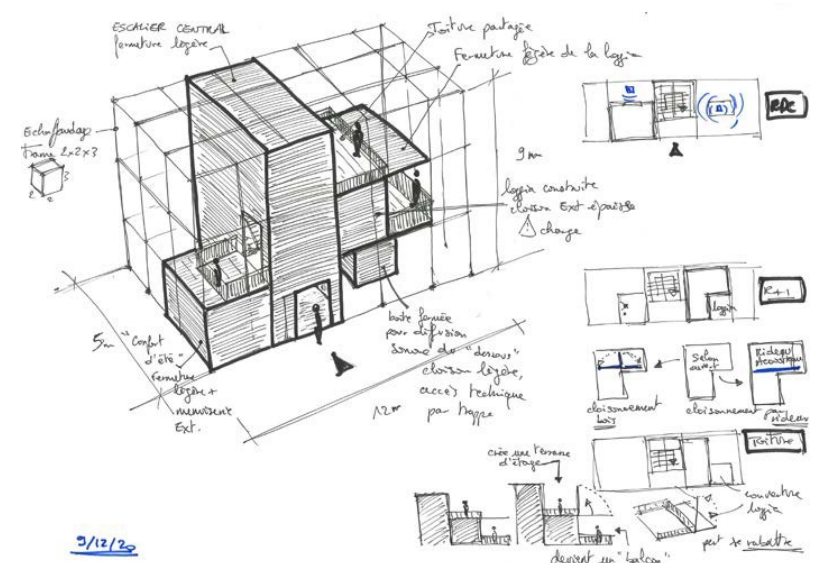
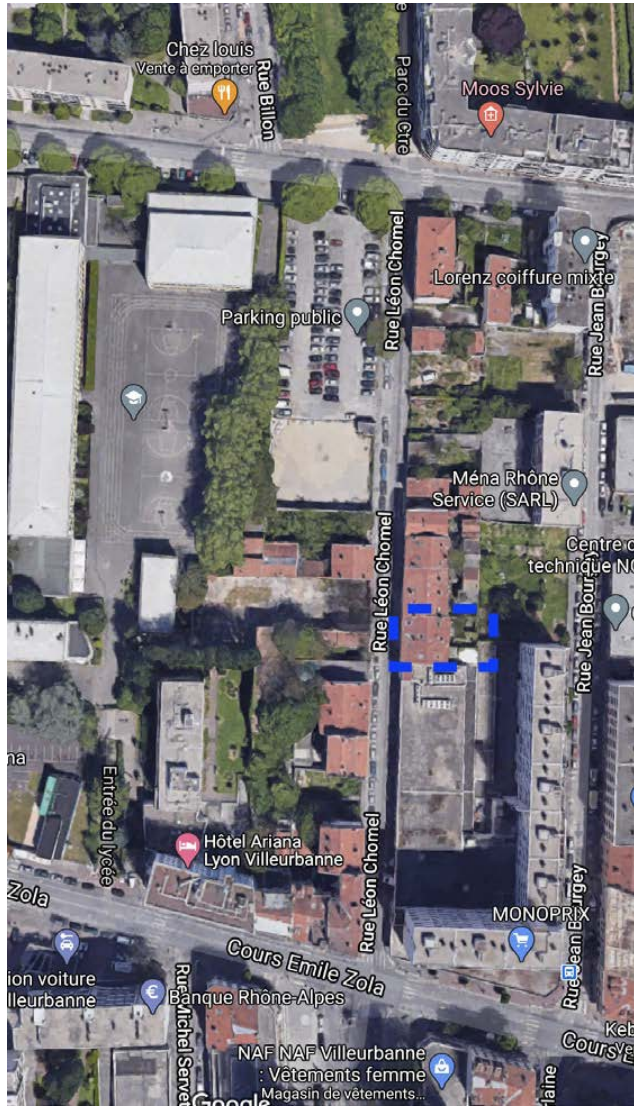
- How is urban agriculture going to develop as a tool to overcome a sense of environmental vulnerability in dense cities ?
- Can biodiversity be heard within urban agriculture? Can birds find a place and how ?
- How can sound interactions between urban agriculture and housing be established ? Legal regulations, specifications, planning of uses ?
- What new places of exchange and what social practices does urban agriculture bring to the scale of a building ? How will the sound ambiances be composed?
- How can future inhabitants be made to listen to their sound environment of which urban agriculture will be a component ?



## **Paths of use of the recordings in the thesis**



# Experiment



Corpus : Urban agriculture – Ilot le Belvédère, Paris 19

