

URBAN GREEN SPACES AND CLIMATE CHANGE

Study case in Seine-Saint-Denis,
France

Progress Workshop
August 2018 Denmark

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PPV



REGIONAL CONTEXT

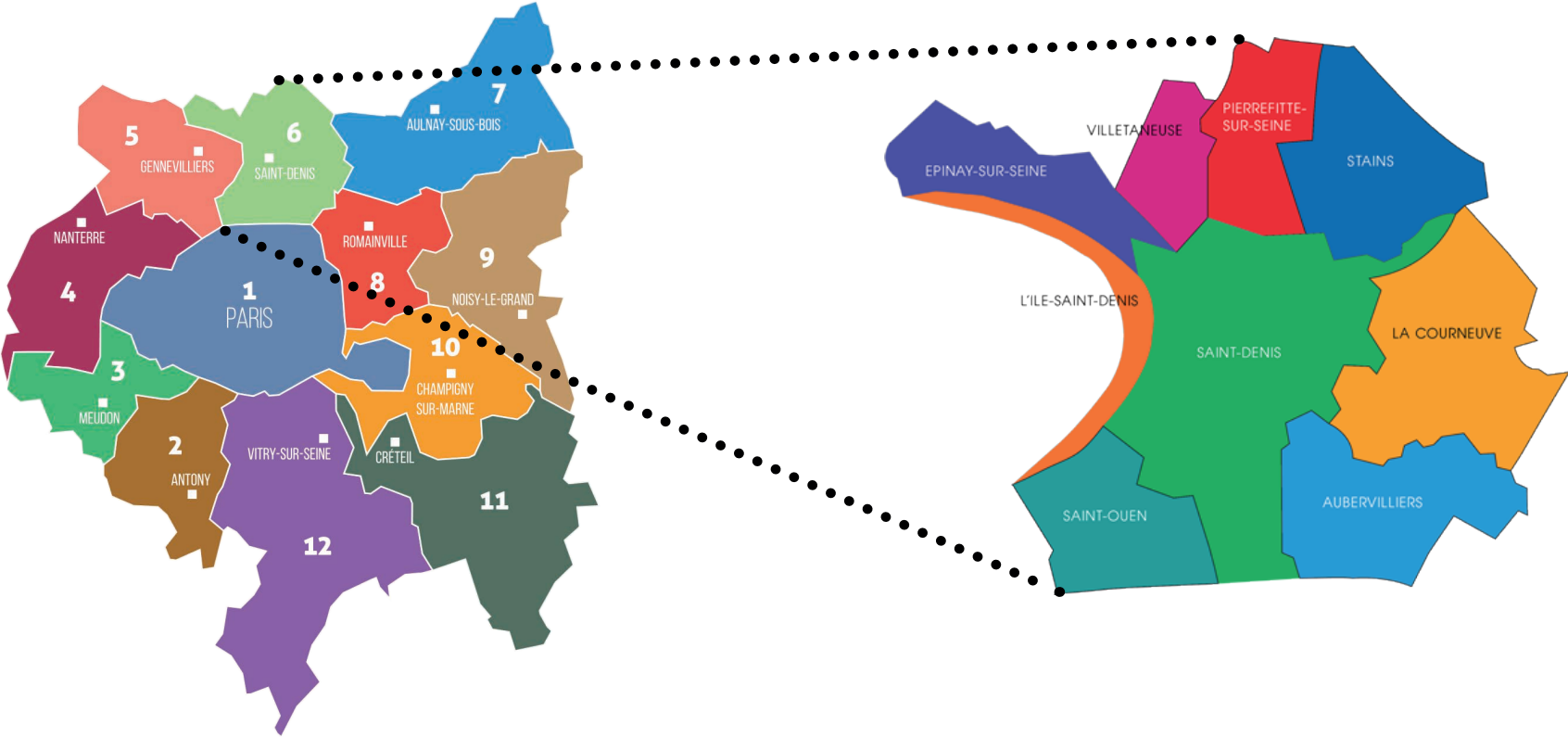
THE « MÉTROPOLE DU GRAND PARIS »

814 km²,
131 cities
12 local governments (EPT)
7 millions inhabitants

« PLAINE COMMUNE »

Seine-Saint-Denis, 1,5 millions inhabitants

47,4 km²
9 cities
430 000 inhabitants

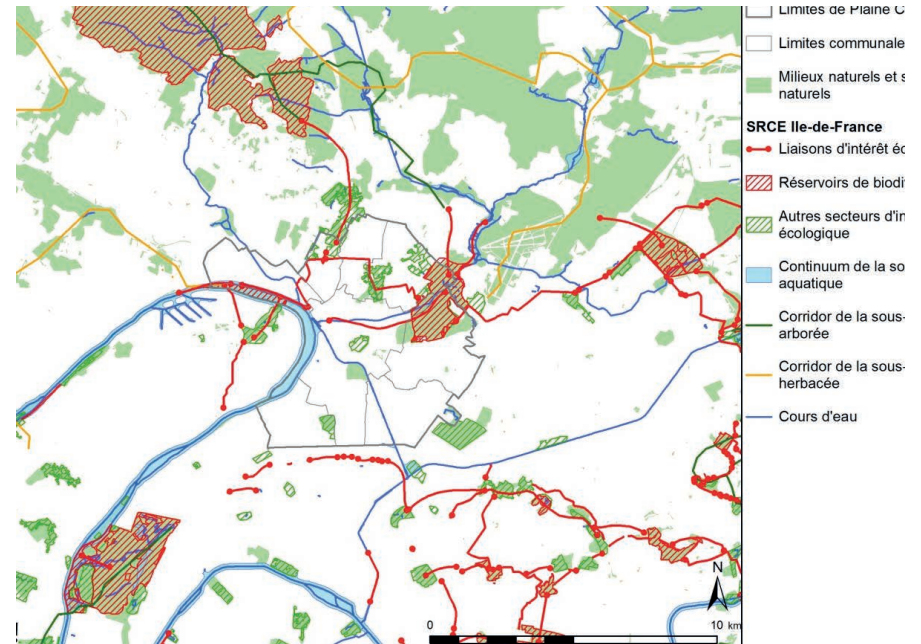
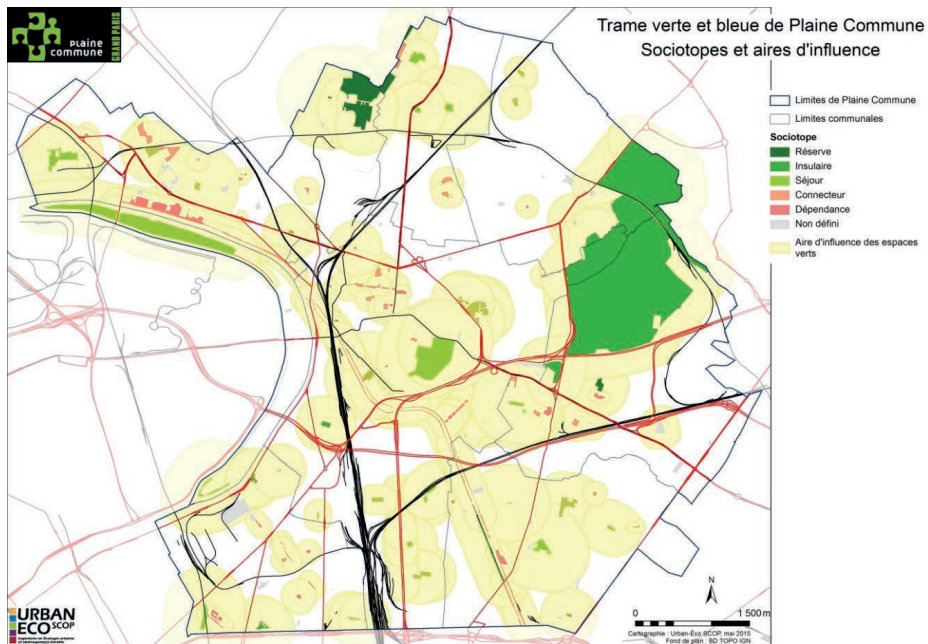


LOCAL CONTEXT

140 urban green areas (14% of the territory)...

...But an unbalanced distribution...

...And a new paradigm with climate change



PROJECT

PLAINE COMMUNE, ASSOCIATIONS, COUNCILLORS AND LOCAL RESIDENT
STARTED THE PROJECT

URBAN GREEN SPACES ADAPTED TO CLIMATE CHANGE : DESIGN AND MANAGEMENT

5 public and open green spaces

5 workshops on sites

**Main goal : Integrate the issue
of climate change systematically
into the creation or renovation of
public spaces, especially green
spaces**

Urban design

Urban heat island (UHI)

Share of plant-covered area

Share of mineral

Risk of flood hazard

Practices on site

Movements

...

STUDY CASE FATIMA BEDAR GARDEN SAINT-DENIS

440 square meters



**Assessing
maintenance procedures**



**Measuring
design impact
and plant growth conditions**



**Measuring heat,
humidity levels**



STUDY CASE **FATIMA BEDAR GARDEN** **SAINT-DENIS**

**Integrate local resident
in the process**



**Assessing connections
between green spaces
and built spaces**



**Integrate climate change
and natural disasters
factors in development
process**



**STUDY CASE
SYNTHESIS**

**FATIMA BEDAR GARDEN
SAINT-DENIS**

440 square meters



Polluted soils (former industrial site)

Poor quality soil

Groundwater close to the surface

Few human-plant relationships

UHI issues

Not enough trees

**Contradiction between natural spaces and
artificial furnitures**

**Garden very dry and unpleasant to use
after noon in summer**

Some plant species are not adapted

Lack of water butt

**Some issues in management (training of
landscapers)**

Urban garden or urban square ?

**STUDY CASE
RECOMMENDATIONS
AND DISCUSSION**

**FATIMA BEDAR GARDEN
SAINT-DENIS**

Rethink swales roles

Rethink selection of plan species

Rethink usage

Rethink landscape approach

**Rethink design process and foresee climate factors
(heat, rain, wind, natural disasters).**