

BRUSSELS SOIL QUALITY INDEX

How to develop the Brussels territory taking into account the quality of the soil and its ecosystem services?



FRANÇOIS HENRY – 04/04/2024

CONTEXT



CONTEXT BRUSSELS HISTORICAL SITUATION

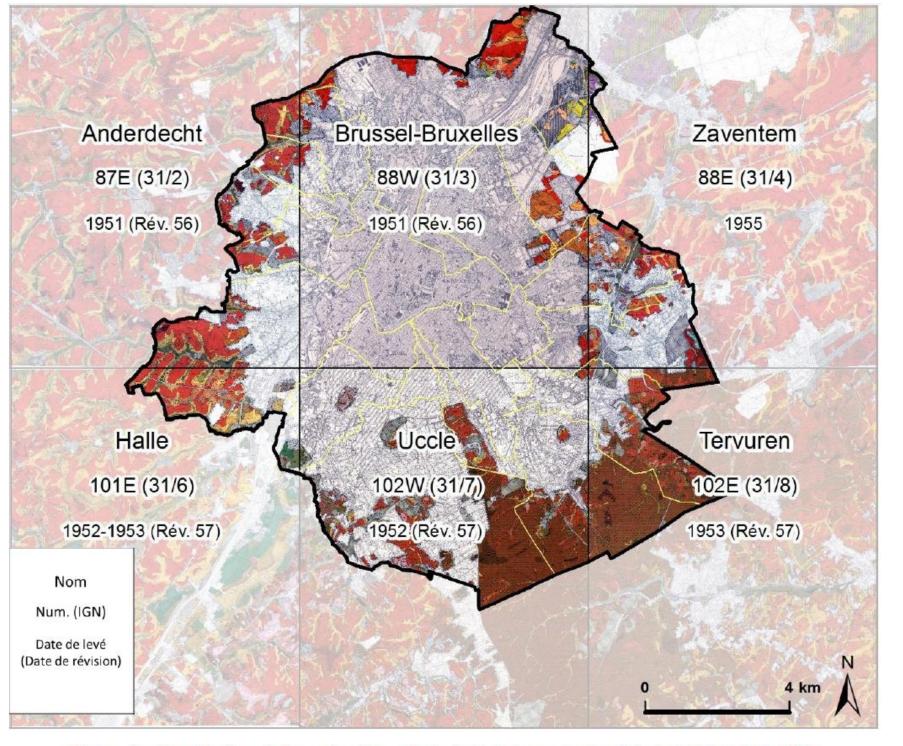
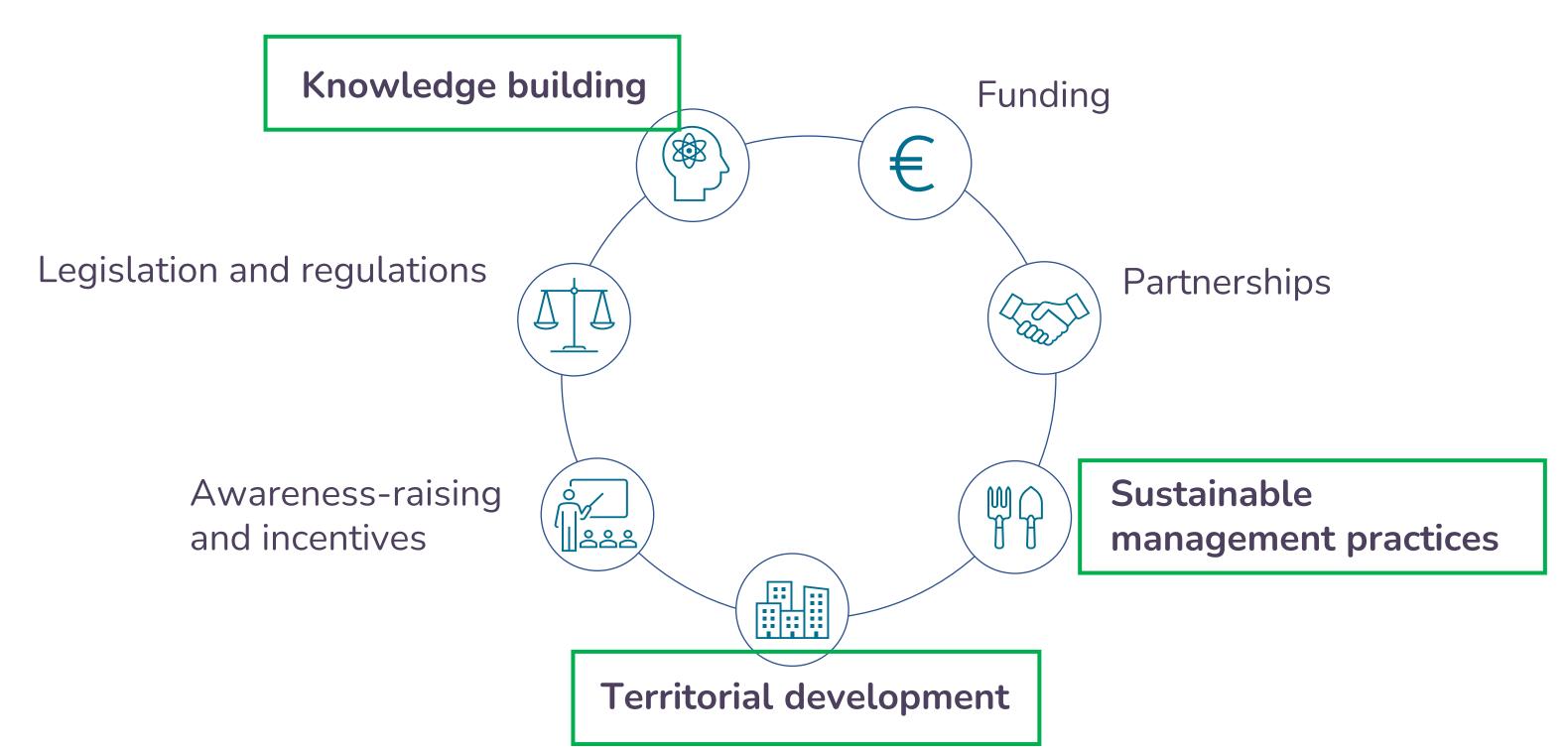




Figure 7 : Planchettes de la carte des sols de la Belgique couvrant le territoire de la RBC.

CONTEXT THE GOOD SOIL STRATEGY





CONTEXT WHY A BRUSSELS SOIL QUALITY INDEX?

1. Objectify soil quality

Definition of good soil quality (European definition)

- Good biological, chemical and physical characteristics AND
- Fulfils a maximum of ecosystem services
- 2. Decision-making in urban planning
- 3. Development of the knowledge of Brussels Soils
- 4. Diagnostic/guideline for soil improvement







BRUSSELS SOIL QUALITY INDEX



THE BRUSSELS SOIL QUALITY INDEX PROCESS

Division of the sites in "homogeneous" zones

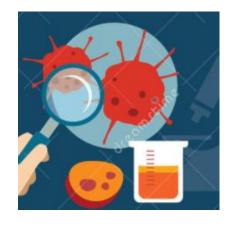


Soil sampling and observations





Laboratory tests









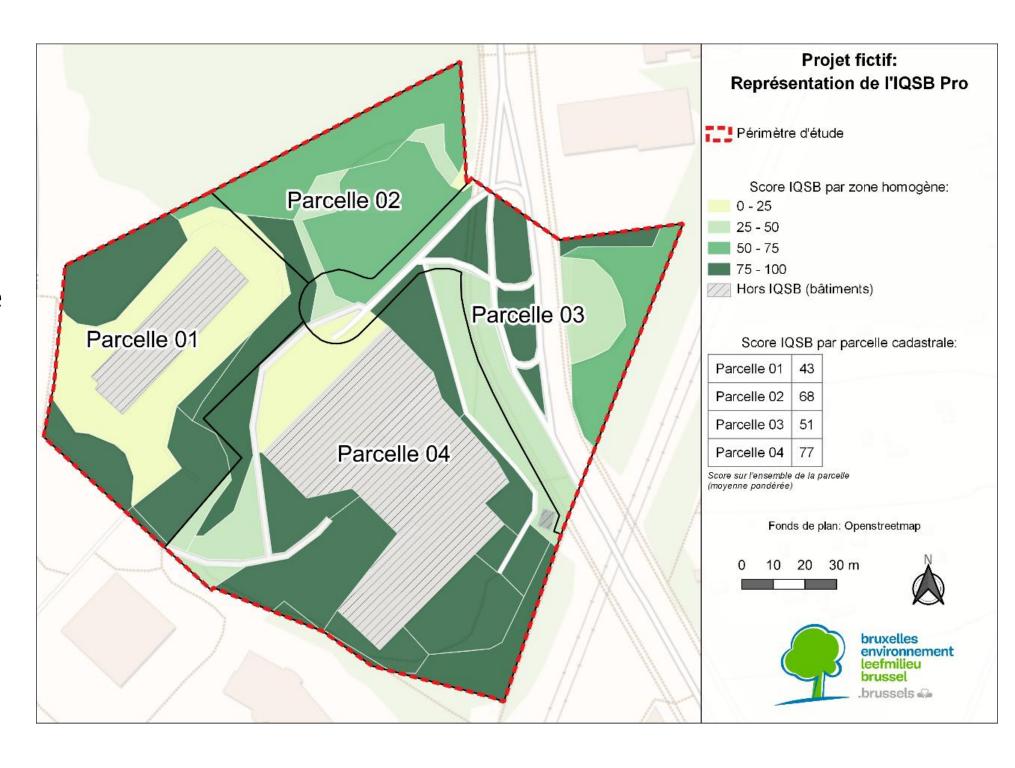
THE BRUSSELS SOIL QUALITY INDEX RESULTS AND RECOMMENDATIONS

For each zone:

- General soil quality « score » for comparison
- Soil deficiencies and strengths per parameter
- Ecosystem services provided by the soil of the zone
- Soil degradations measured in the zone
- Recommendations by the soil expert on what function/use to give to which soil

For the project:

 General summary of soil health, SES and degradations on each parcel

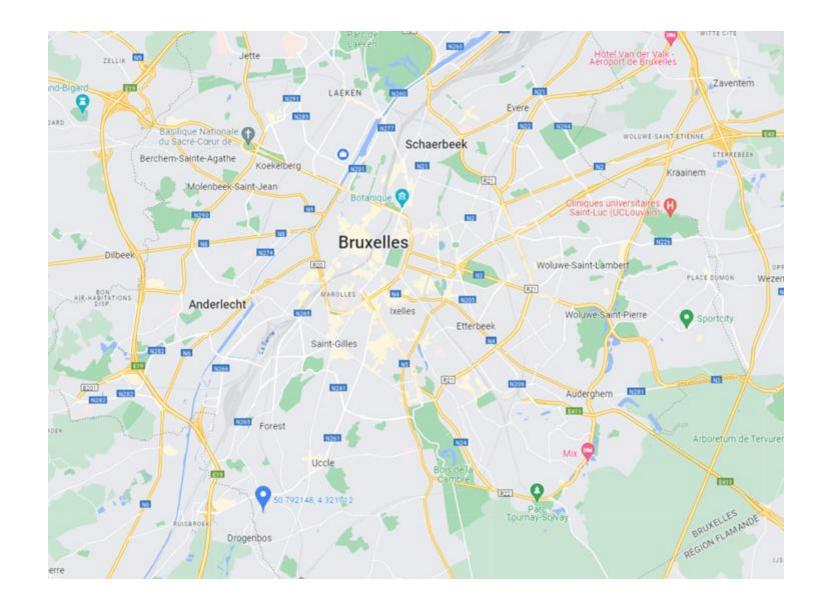


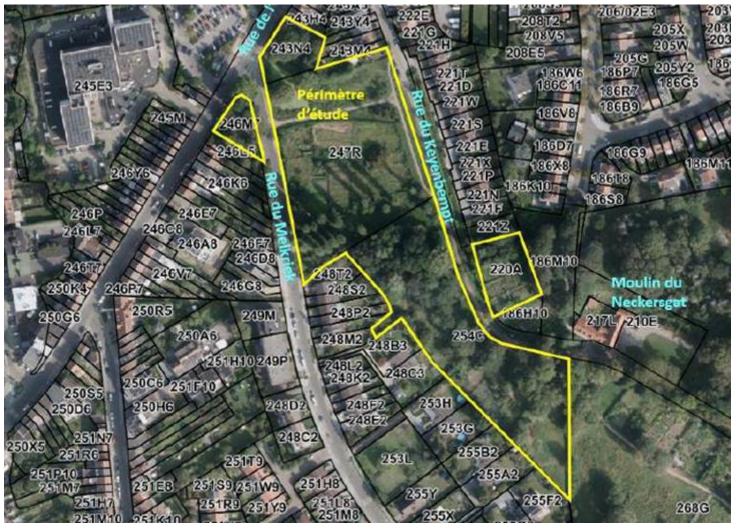


CONCRETE APPLICATIONS



BSQI PRO KEYENBEMPT CONTEXT AND HISTORY





Source: Aries



BSQI PRO KEYENBEMPT LOCATION AND HISTORY





Source : Aries

BSQI PRO KEYENBEMPT RESULTS AND CONCLUSION



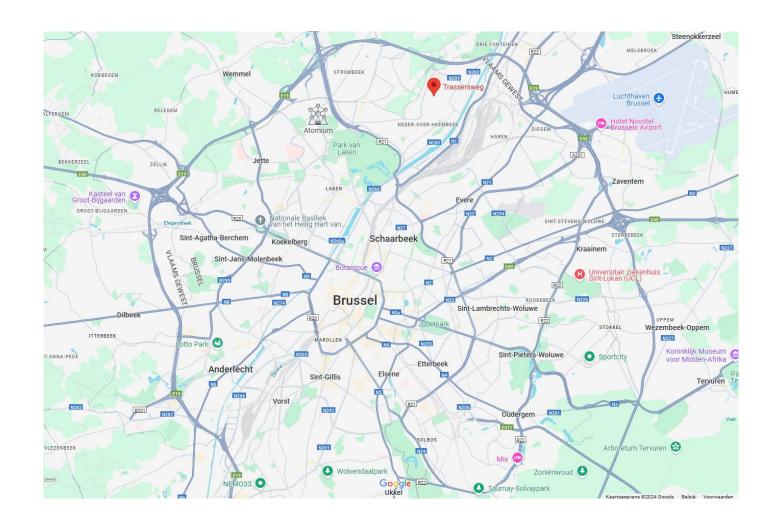
Zone	Land use	BSQI
Α	Vegetable garden	69
В	Vegetable garden	66
С	Park/trees	61
D	Park/trees/lawn	57
E	Lawn	62
F	Wasteland	59
G	Park	55





Source: Aries

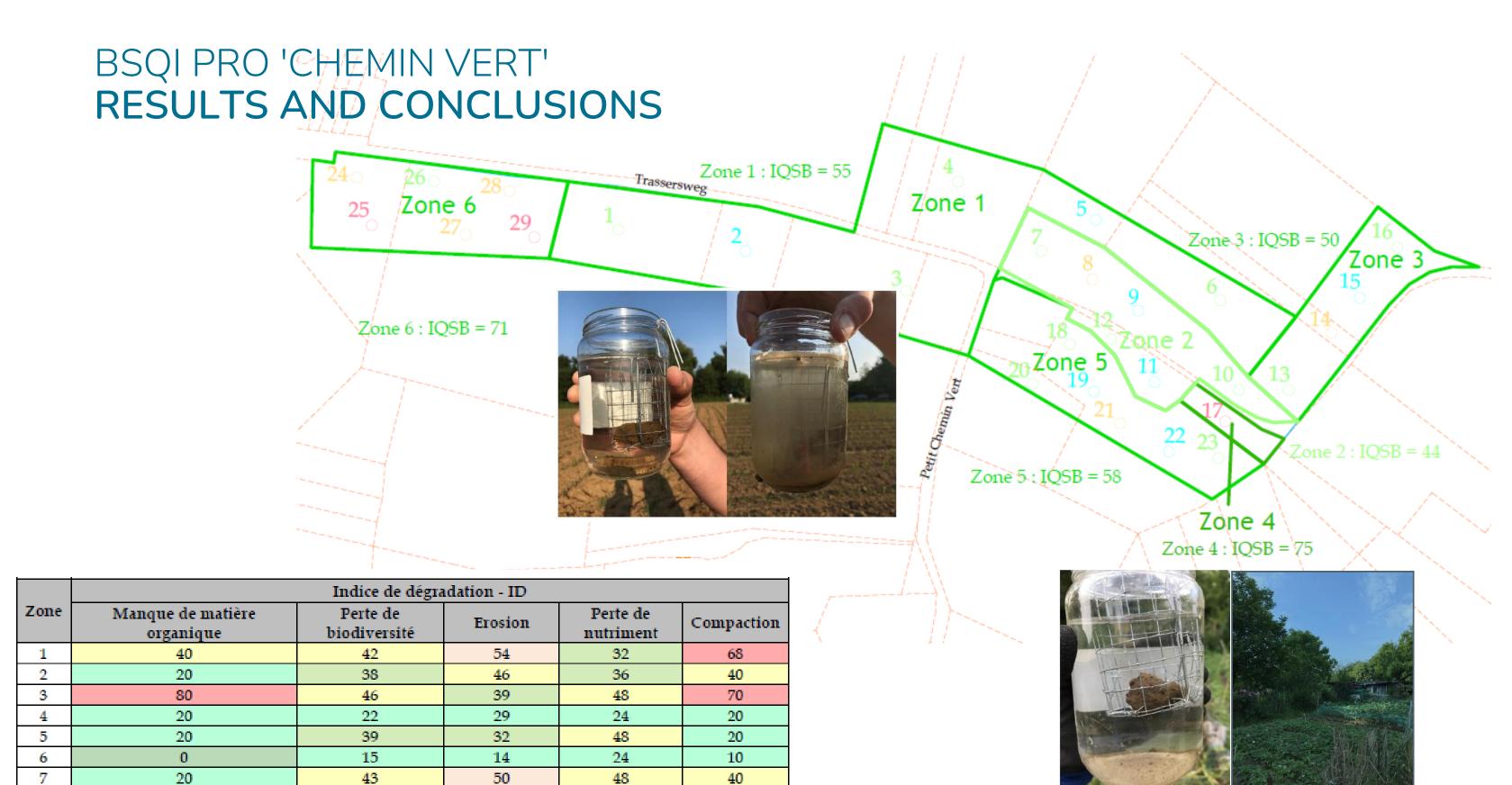
BSQI PRO 'CHEMIN VERT' CONTEXT AND HISTORY





Source: Recosol





Source: Recosol

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