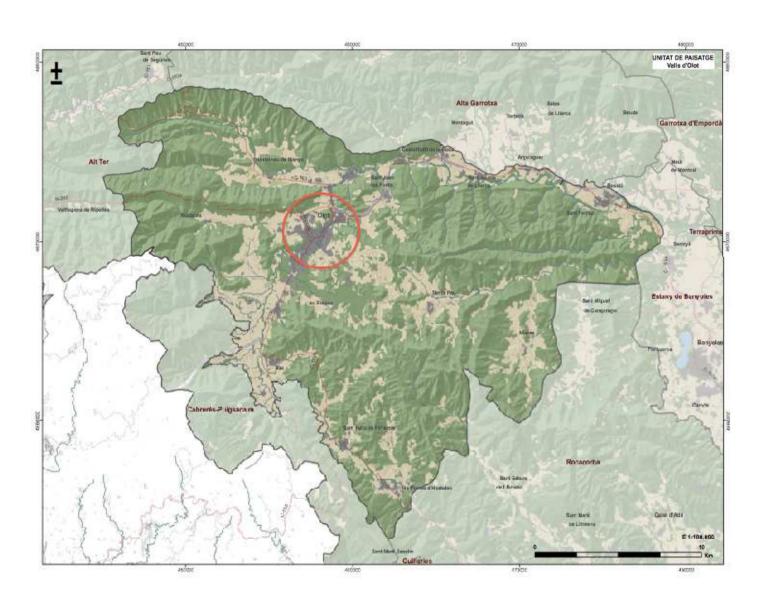


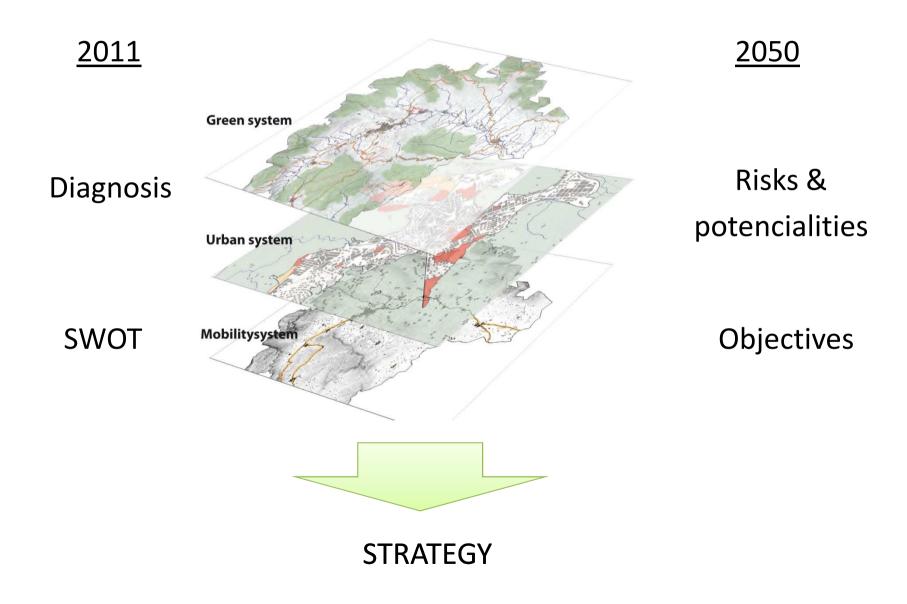
BUILD UP LANDSCAPES OLOT VALLEYS

Annamaria Bagaini Marcel Ballestar Gonçalo Carvalho Ana Maria Miranda Antonio Secondo

STUDY AREA



METHODOLOGY



	STRENGTHS	WEAKNESSES
INTERNAL ORIGIN	 1.Valuable landscape 2.Good/ fertility soil 3.Natural park 4.Multiethnic 5.High self-restraint 6.Infrastructure 7.presence of a volcanic area with a good conservative morphology 8.presence of unique landscape 9.architectonic heritage 10. system of paths and natural itinerary, that increase the discovery of landscape 11. natural tourism 12. economic activity, that produce a gastronomic resource 13. presence of unique and precious urban centres like Castellfollit de la Roca 14. large agricultural area with a good productivity 15. production of biomass energy 16. Availability building 17. New urban development 18. Large forest area 	 1.Abandoned building 2.Bad connection between the cities in public transport 3.Insufficient public transport 4.leave the city for less opportunity of work 5.Growth of elderly population 6.Little cities spread in the region 7.Uncontrolled use of soil 8.Infrastructure that impact the sensitive area, these can cause noise, pollution, disturb and affects the landscape 9.less use biomass resource creation of too homogeneity agriculture area, that can cause less difference of the landscape
	OPPORTUNITY	THREATS
	1.Disposability agriculture area 2.Population growth	1.Increase of private mobility 2.Development of the city without control 3. Environmental pollution

- 3. Presence of natural park
- 4. Presence of different energy source
- 5. Possibility new economic system from natural tourism
- 6.Opportunity of work
- 7. The city inside the natural park, and the park inside the city
- 8. Good sensibility for the landscape argument (observatory of landscape)
- 9. New infrastructure that connect the different urban area
- 10. European agricultural politics

- 3.Environmental pollution
- 4.Uncontrolled use for the soil+
- 5. Shortcoming of integration between city and agriculture area
- 6. The natural park could be a isolated area
- 7.Landscape fragmentation
- 8. Uncontrolled use of the protection park from the tourism activity
- 9.Global energy crisis
- 10.Global economic crisis

2050 SCENARIO

SCENARIO 1

SCENARIO 2

Temperature:

+0,8°C

Rainfall precipitations:

-5/7%

Population:

+8%

Energy demand:

+4/5%

Temperature:

Rainfall precipitations:

Population:

Energy demand:

+1,2°C

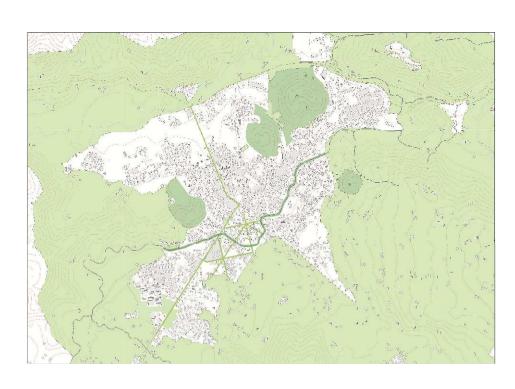
-12/15%

+20%

+8/10%



GREEN SYSTEM



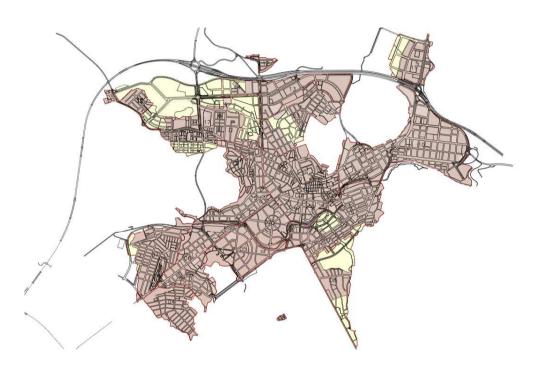
- Valuable landscape.
- Natural Park.
- Agriculture.
- Natural tourism.

THREATS:

- Less biodiversity.
- Abandonment of cultivated land.



URBAN SYSTEM

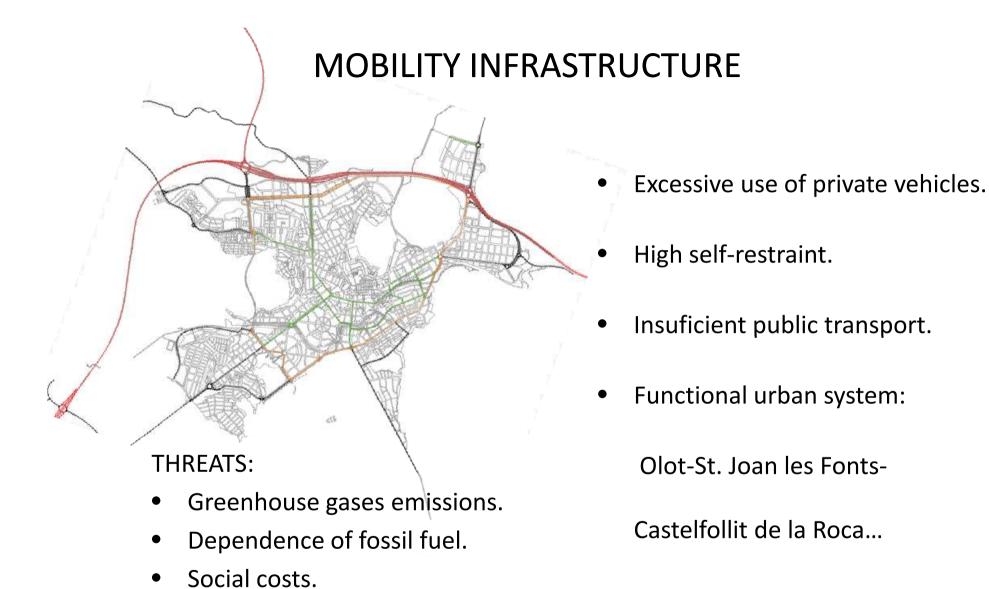


- Olot is a central node of Garrotxa.
- Little cities spread in the region.
- Architectural heritage.
- 2.532 vacant buildings.

THREATS:

- Increase of water and energy consumption.
- Increase of population.





OBJECTIVES

- Prevent further spread and dispersion of urbanization currently using the existing open spaces inside the town and vacant houses as expansion areas in opposition to the creation of new suburbs.
- Manage the City-Natural Park dichotomy with an integrative planning to avoid the creation of a "naturalized" area as an isolated area inside a periphery with intense disturbances.
- Increase territorial cohesion with an improved internal connectivity based on a model of sustainable mobility.
- Consolidate economic activity increasing quality, taking advantage of landscape as an asset of natural products.



PLANNING DATA

SCENARIO 1

+8% Population

2.698 new people

27 Ha of new urban area

NO NEED TO BUILD MORE RESIDENCE

OLOT

33.725 Population (2001)

53 Ha S.U.D. for residential use (POUM)

100 h/Ha density

2.532 vacant homes

SCENARIO 2

+20%Population

6.745 new people

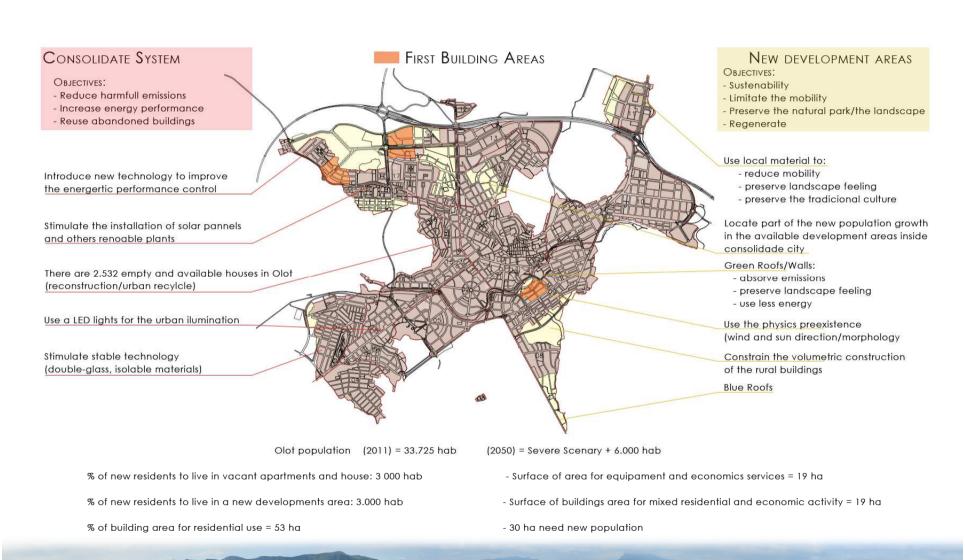
67 Ha of new-urban-area

3.165 PEOPLE IN VACANT HOMES (≈50%)

3.580 PEOPLE IN 35,8 NEW URBAN AREA

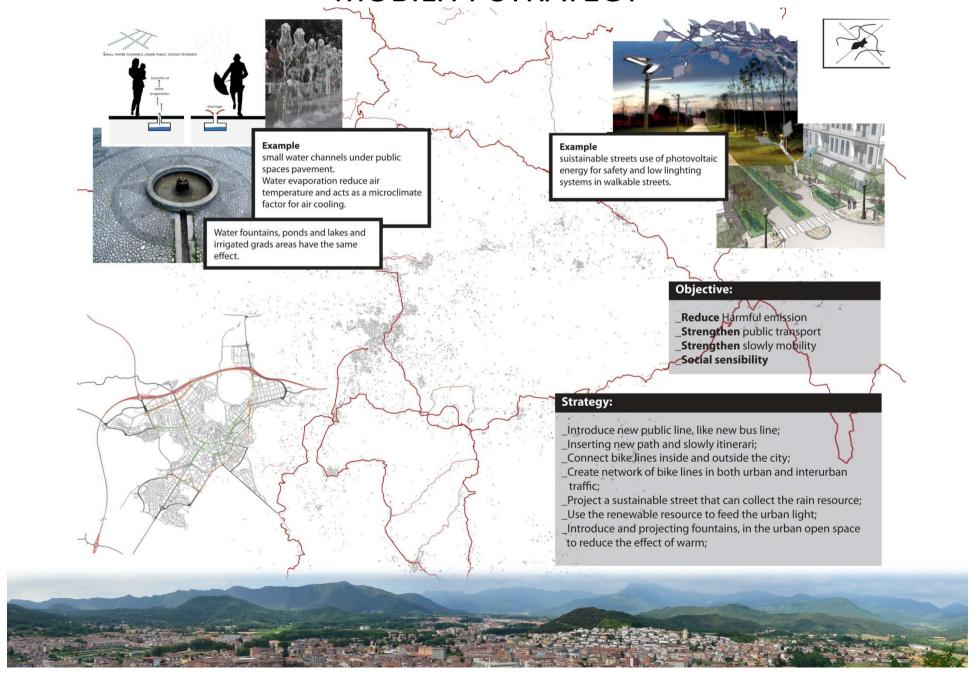


URBAN STRATEGY





MOBILITY STRATEGY

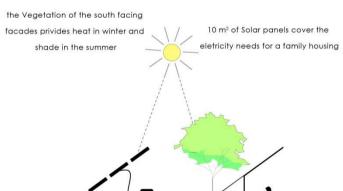


PRACTICAL CASES

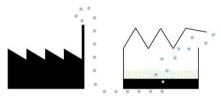


Green and Blue root
water reuse as isolation system and
sustainable roof garden irrigation

Light. Energy consumption reduction low water consumption planted pannels



The rainwater collected by the facades



Rooting zone purifie transforming the carbon dioxide in CO²

THANK YOU

