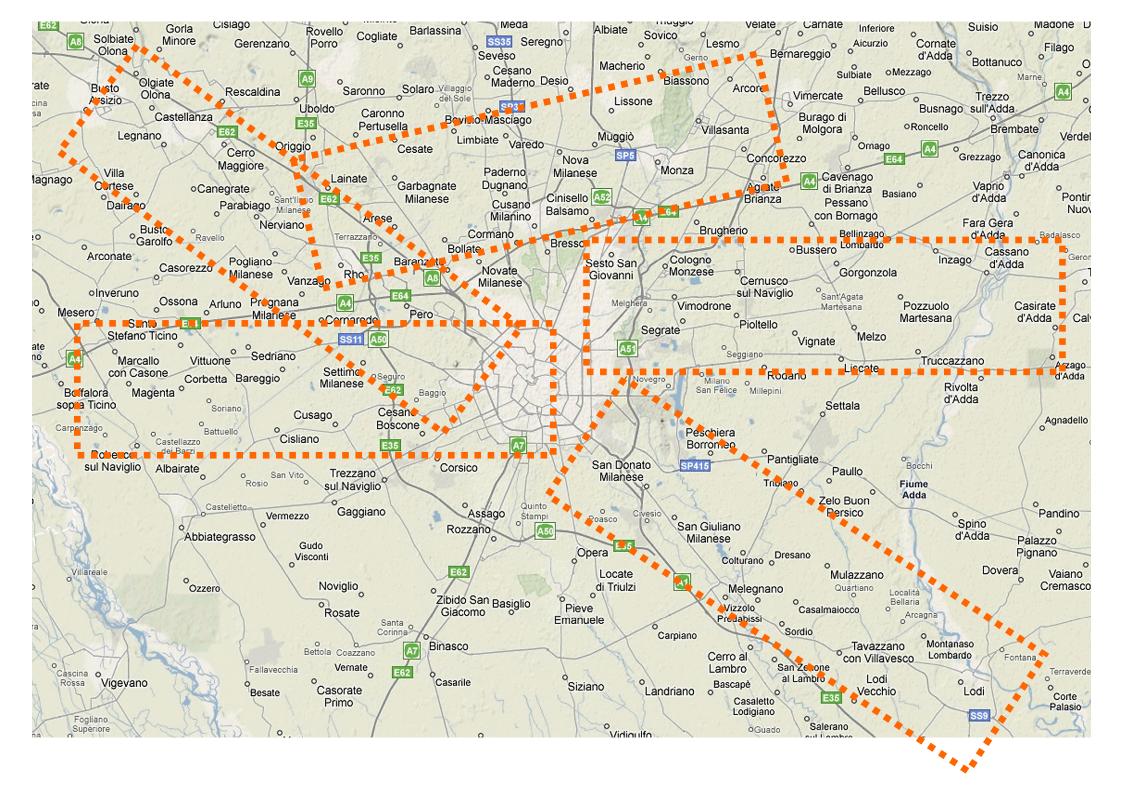
Politecnico di Milano, Facoltà di Architettura e Società Corso di Laurea Magistrale in Pianificazione Urbana e Politiche Territoriali Master of Science in Urban Planning and Policy Design **Urban Planning & Design Studio, a.y 2009/2010**

Exploring by Transects 17.03.2010

Professors:

Patrizia Gabellini, G. Bertrando Bonfantini, Antonio Longo, Marco Mareggi *Tutors:*

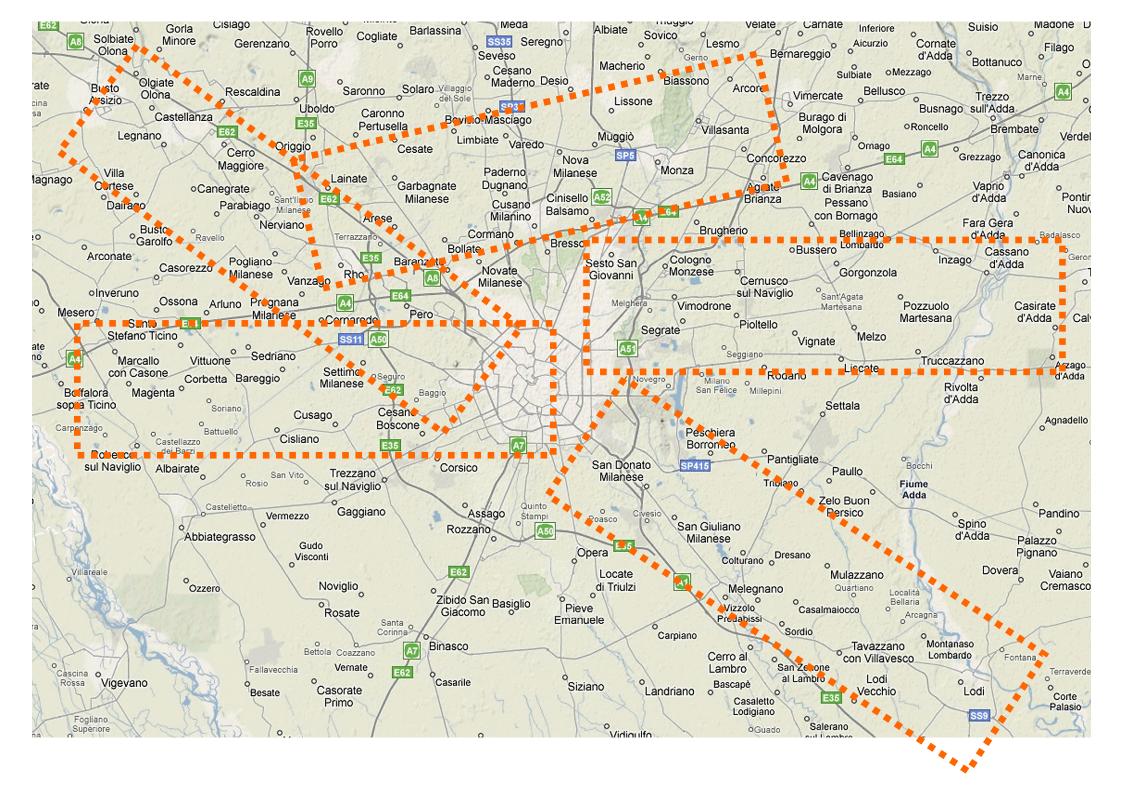
Giulia Fini, Federico Zanfi



In the first workshop step an **artificial device** is used to identify and describe the composed physical character of the urban field.

The territorial fields to be considered are "in-between cities" of the Milan urban region:

- 1. from Magenta to Milan/da Magenta a Milano
- 2. from Legnano to Milan/da Legnano a Milano
- 3. from Rho to Agrate/da Rho ad Agrate
- 4. from Treviglio to Milan/da Treviglio a Milano
- 5. from Lodi to Milan/da Lodi a Milano



The sampling work is an artificial construction: the **territory** of the new "in-between cities" and of the project is not done, has not sure boundaries, but it is necessary to recognize it.

This is the **result of an operation** which describes and interprets the physical and social phenomena of the urban field

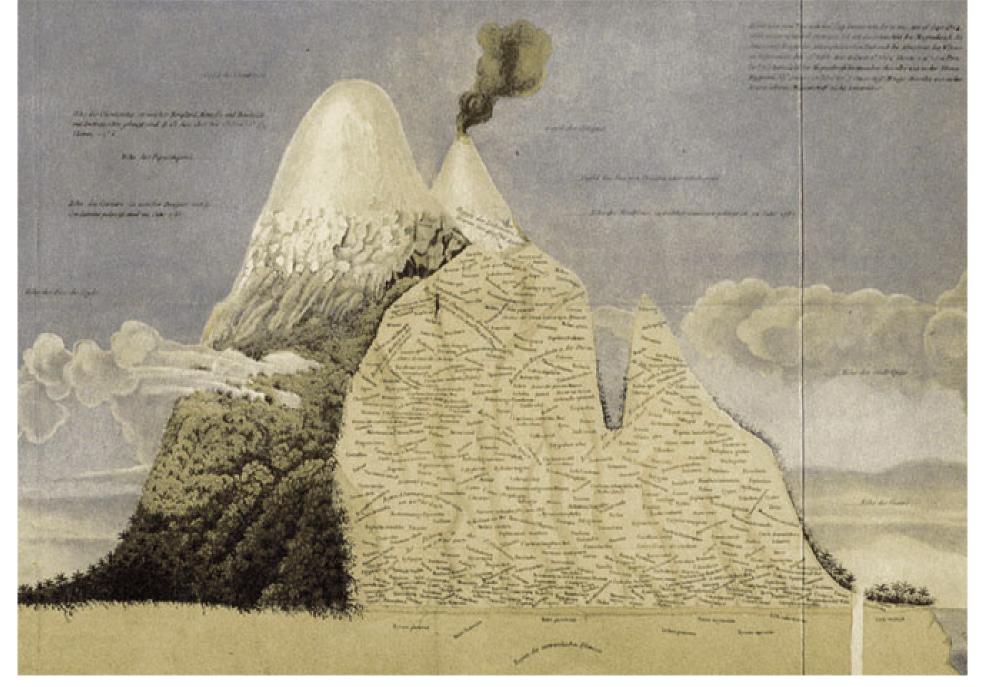
A Virtual Exploration

Transects as survey tools

In the geographical and bio-ecological sciences the transect method (according to Alexander von Humboldt example) is an artificial device to recognize environmental differences and recurrences.

Strictly related with the cultural legacy of von Humboldt is the "valley section" by Patrick Geddes: both used sections, perspectives, samples in the description of the biological sense of the territory.

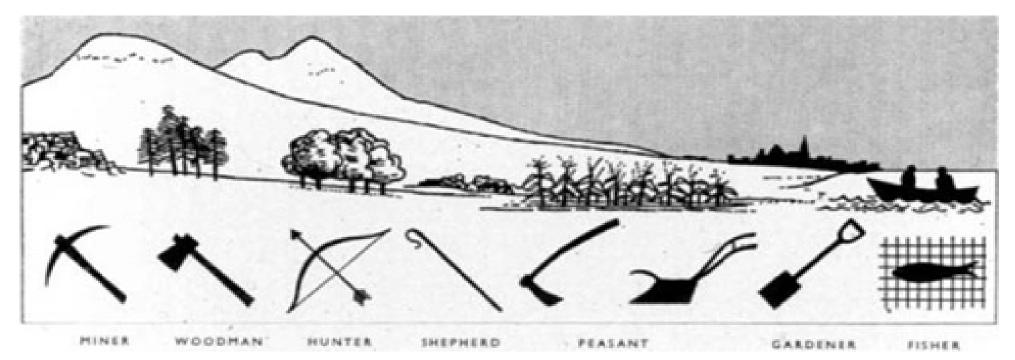




Alexander von Humboldt - The results of the transect analysis of a vulcan in South America are notated with the names of the biological world of the mountain: a new biological field in substitution of the apparency of the mountain.

BOTANY DED Res E 2/13/1(3) Lass Nº 121 THE RISE AND AMMS MODERN BOT ANT PATRICK GEDDES. 11/2 BOTANICAL LABORATORY. UNIVERSITY COLLEGE DUNDER. Pare atural. I Sede Hominum. II Theefrum Historial. I Subopiania tuturis! (INTRODUCTORY LECTTRE, 1858.)

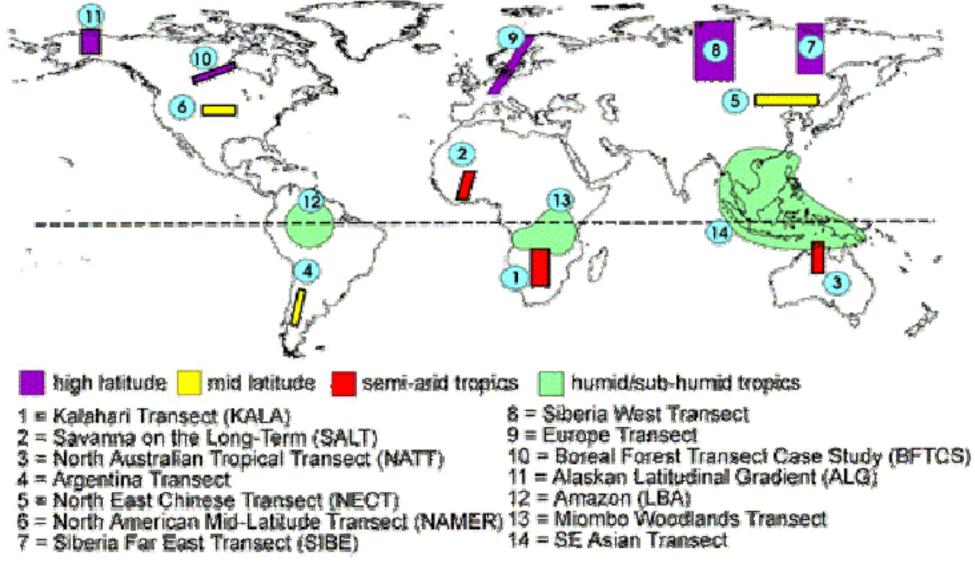
The evolution represented with the tools of the valley section by Patrick Geddes.



	TRAN	ISECT MAP, BARAI	NGAY BASH	ОЎ, КАВАУА 7 1994 1994 1994 1994 1994 1994 1994 19	N, BENGUET	free for the second sec	99 <u>~</u>
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SOIL COLORY TEXTURE	Zlock Brown Hed Groet Sundy	Broen & Prown Block Loam	Cley Ercei	n Gley Loan Soil	E Loam/Clay		
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ANEMALS	Utet, Vieg, Bowet, Titit	Titit			Baboyle, Birds, Cow		
SLOPE ELEVATION	2,300 mast	2,000 masl			1,900 masi		1,800 mosi
PROBLEMS	Only little forest	Forest Fires Lack of water Need for material sand supplies		Water supply No funds			
	Water supply available below	There is an available arec			Lums ang Lupa - g	cod conditie	Available pastuma m Land Faw Animols

A contemporary transect operation made by a team of anthropologists and geographers.

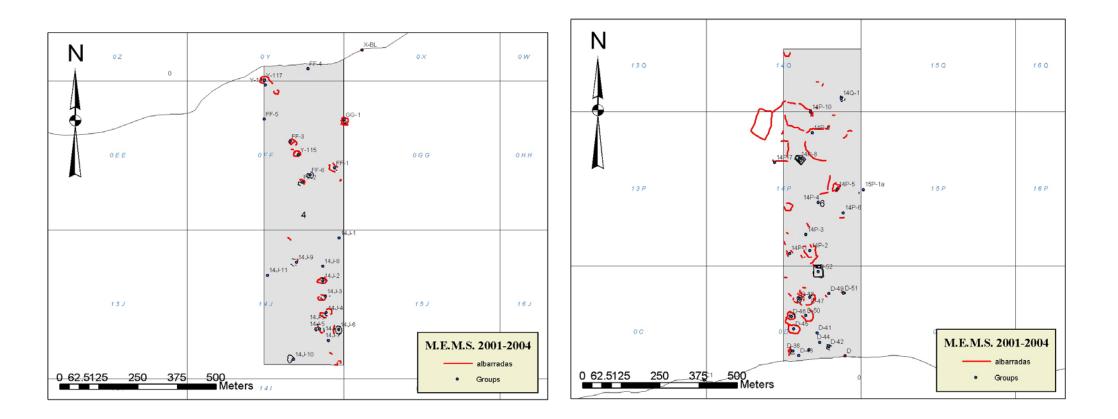
IGBP Terrestrial Transects: Operational or Advanced Planning



Note: Transects 12-14 are based on a conceptual gradient of land-use change intensity.

Wide geographical and ecological transects.

Small-size-transect submarine survey.



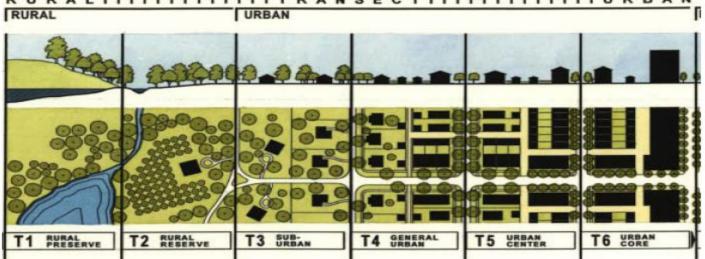
Transect analysis of two archeological sites.



Eastern transect: patterns and perceptive analysis of the townscape of San Francisco (Berkeley University – workshop).

Zipped sequences of samples

In the meaning of our work the transect in not related with a specifically interpretation of the urban filed: in the New Urbanism school is deeply used with the aim to find and demonstrating the relationship between city and nature, between develop and natural evolution of the town.



Dauny and Plater Zyrbek (APA Journal, 2002).



Duck River, Tennessee

It's one of the most biodiverse waterways in the U.S., and it harbors several endemic speciesanimals found nowhere else on Earth. Why such wealth in central Tennessee's Duck River? Time, says Don Hubbs of the Tennessee Wildlife Resources Agency. Part of an ancient, sprawling watershed, the 290-mile Duck River has streamed over its limestone base for millions of years. The mineral-rich geology favors creatures that are, in turn, vital to the riverincluding the 54 mussel species that filter the Duck's waters. The survey spot was at Lillard Mill, about 15 miles east of Columbia, Tennessee. After days of working in swirling waters turbid from rich crops of algae, the team lifted a sample into a tank (left, with spotted bass) for clearer access. The surveyors noted a bigclaw crayfish (opposite) and several turtles, including one sporting a flamboyant coat of algae (following pages). Evidence of 32 fish species, more than a hundred non-native Asian clams, and seven species of mussels, three of them endangered, further hints at the prosperity of this old man river. -Photo text by Jennifer S. Holland



within ONE CUBIC FOOT

Miniature Surveys of Biodiversity





Table Mountain, South Africa

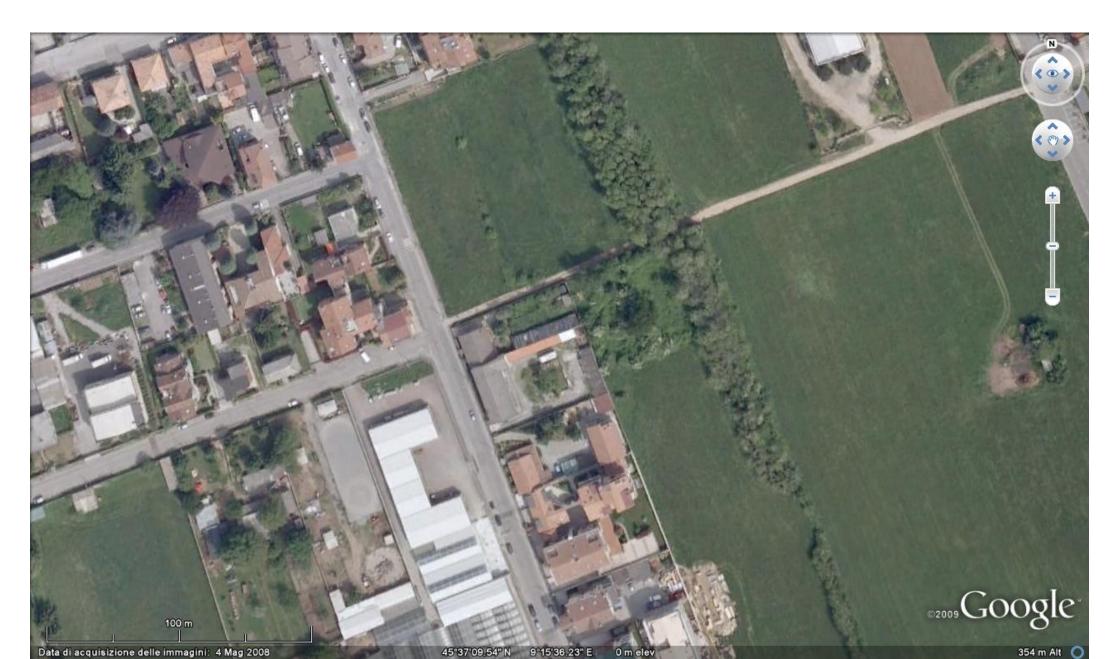
Fynbos, derived from Dutch, refers to the fineleaved vegetation that grows in the mountainous areas of the Cape Floristic Region (CFR, as botanists call the unique area of floral diversity at the southern tip of Africa). The soils here are rocky and nutrient-poor, the scrub prone to going up in flames. Yet adversity has fostered one of the richest concentrations of plant diversity in the world: Some 9,000 native species live in the CFR-many of them evolved here and live nowhere else. Liittschwager's shovelful of fynbos came out of Table Mountain National Park, the monumental mesa that towers over Cape Town. Sifting through samples (following pages), the photographer counted 90 separate species, including 25 types of plants just on the soil surface, along with some 200 seeds representing at least five of those species. Root masses held a host of crawlies, and the sticky leaves of a carnivorous sundew plant (opposite)looking too pretty to be predatory-offered another fistful of insects to the tally.



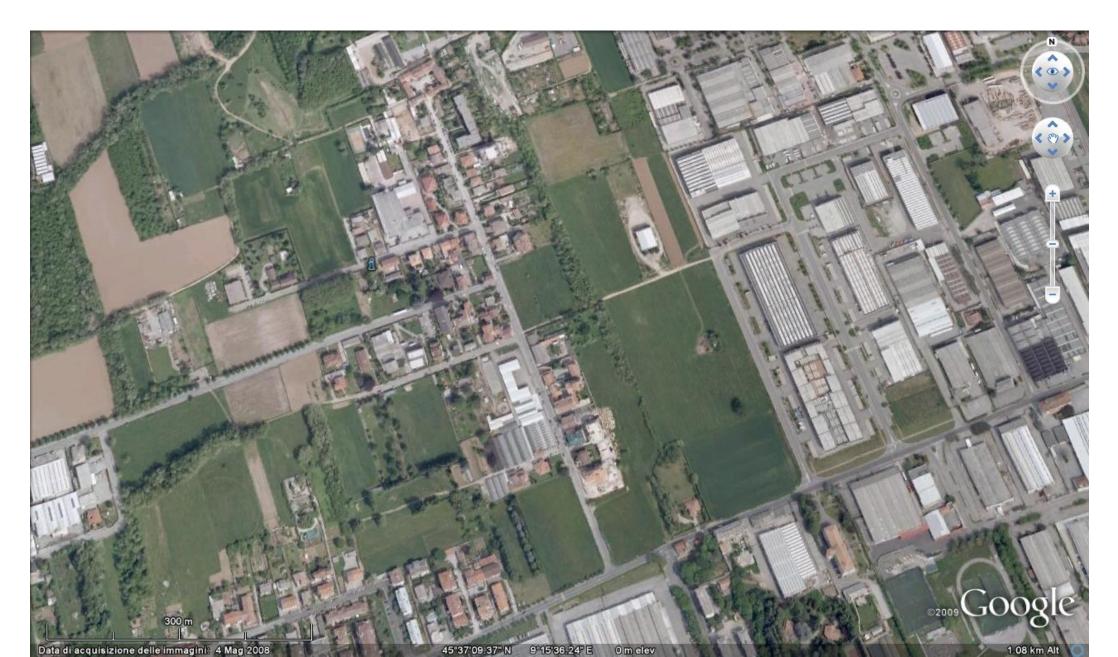


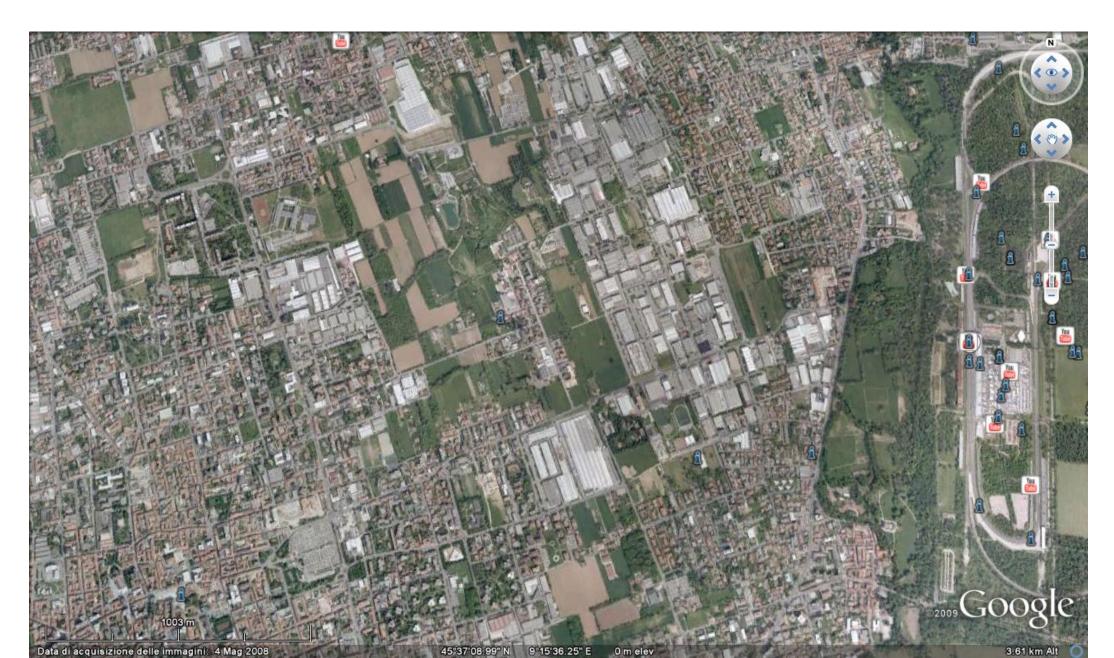


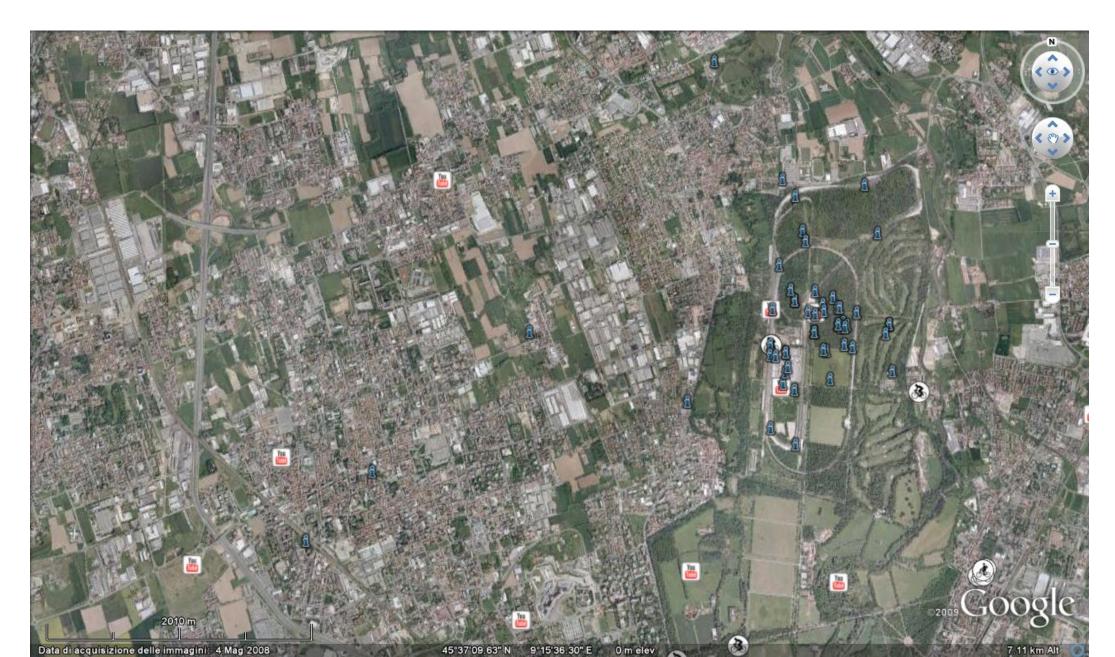














Google Earth as a survey tool

The work space is Google Earth:

different height, movements, measures, possibility to print and take screen shots, reading geographical information's, possibility to read a post local and special information.

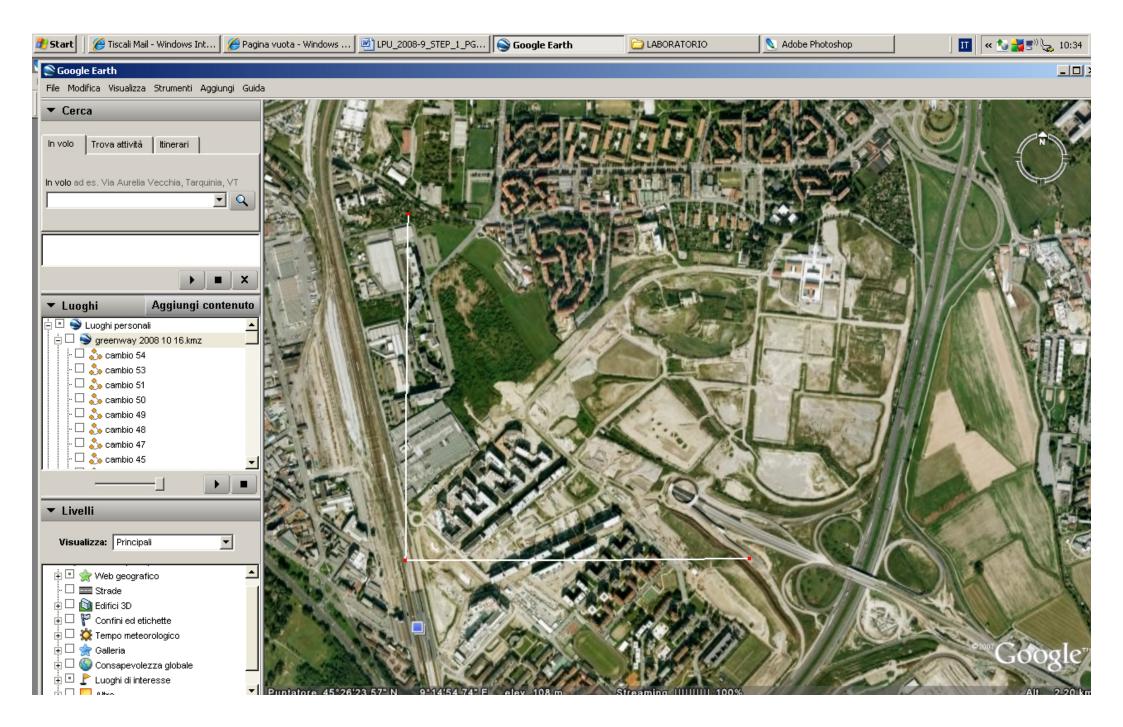
First of all, territory have to be surfed, zooming in and out. After this exploration, transverses have to be traced and square samples have to be chosen.

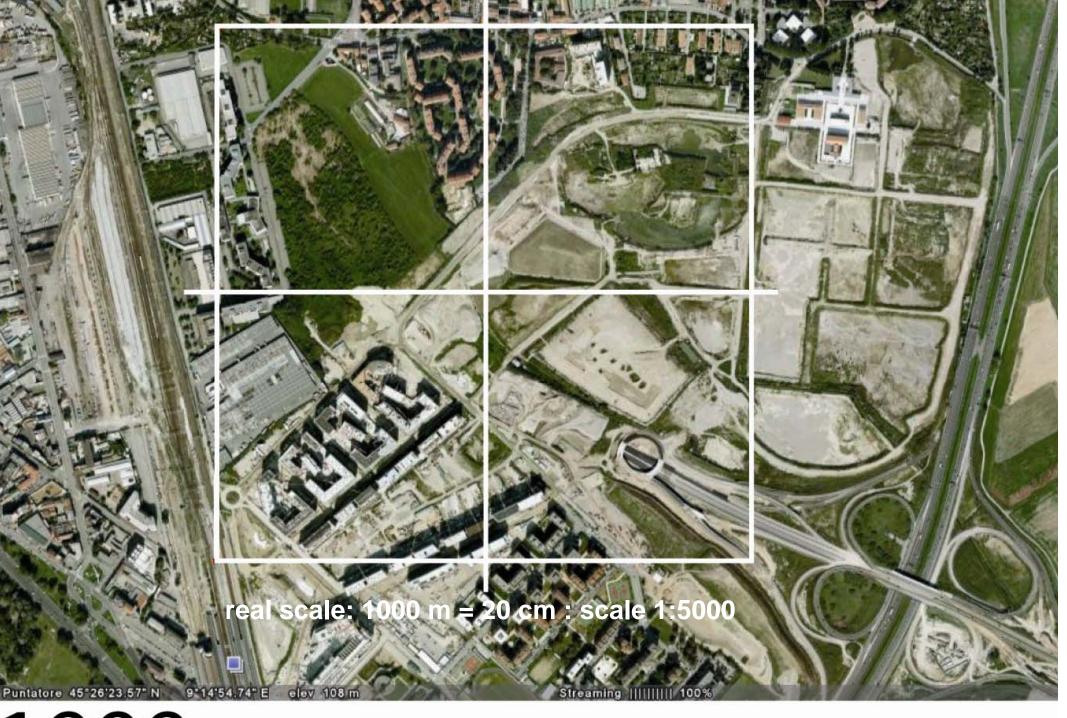
The aim of the operation is describing different and significant visible territorial features: significant are the density of different micro patterns, recurrences and exceptions, presence of parts or elements of big territorial patterns, recurrences of path, shapes and dimensions, character of the surfaces...

Interpreting transect survey suggestion in the workshop activity

1. trace the "between x and x" field

2. choose 1000x1000 square metres with the aim to catch distinctive territorial features (for about 20 samples complexively selected).





1000 x



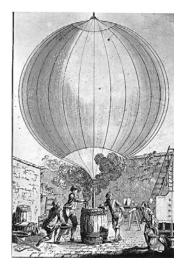
Memo

Some technical steps to be considered:

-- to compose a wide photographic basis of the territorial field by a sequence of screen shots to be elaborated with Photoshop (colour correction, crops...)

- to name and order the square samples, preparing their catalog;

- to write notes and sketch drawings to fix the essential features recognised in the survey.



Laboratorio di Progettazione urbanistica Urban Planning & Design Workshop: have a good journey!