

# sustainability make sense if it is percepited as widespread planning

### EXAMINATION PAPERS OF THE DETAILED PLAN REQUESTED FROM THE REGULATIONS

Territorial framing, cadastrad, aereofotogrammetric, General Town-planning

Altimetry survey plan

Planimetry of the volumes

Project of the ground

Technological net:

- Hydric study
- Electric energy
- Waste water
- Gas metan
- Telecommunications
- Pubblic illumination
- Ecological "islands"

Study of acustic climate

Technical geological study

**Dominant winds** 

Solar Mask 1. Shadows of buildings on the 21st of June

Solar Mask 2. Shadows of buildings on the 21st of Dicember

**Shadows of vegetation** 

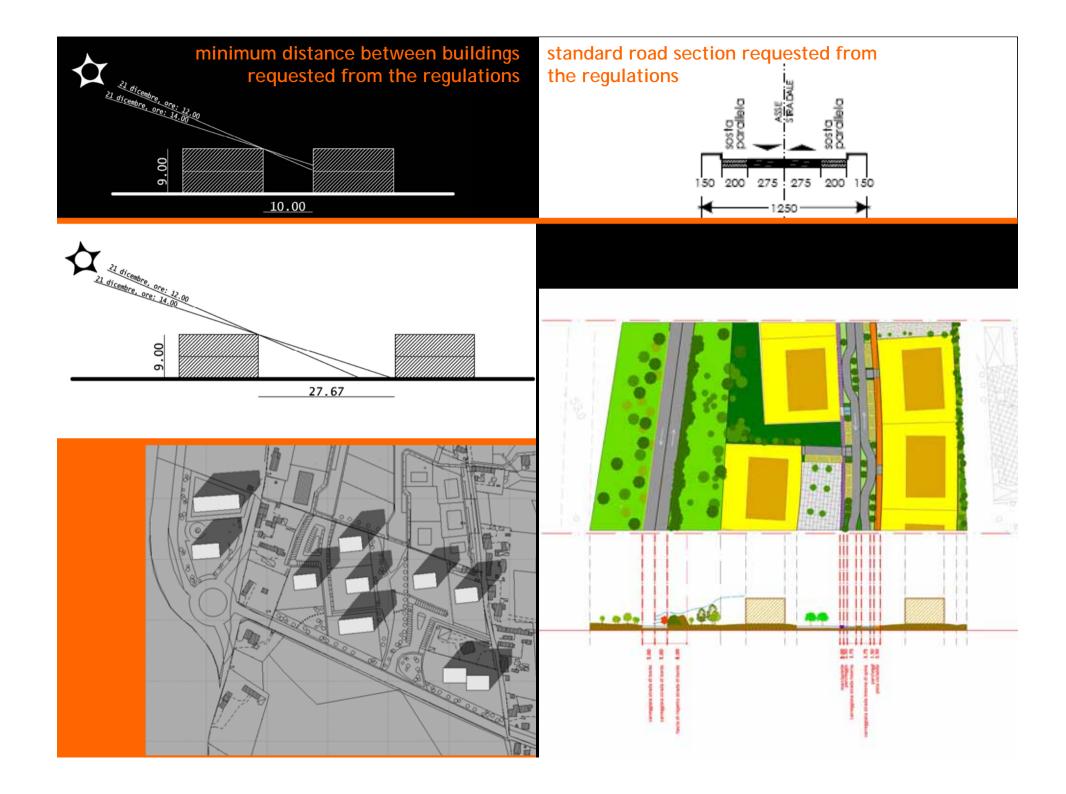
Mobility

Vegetation

Gas Radon report

Luminosity pollution report

**Electromagnetic field report** 



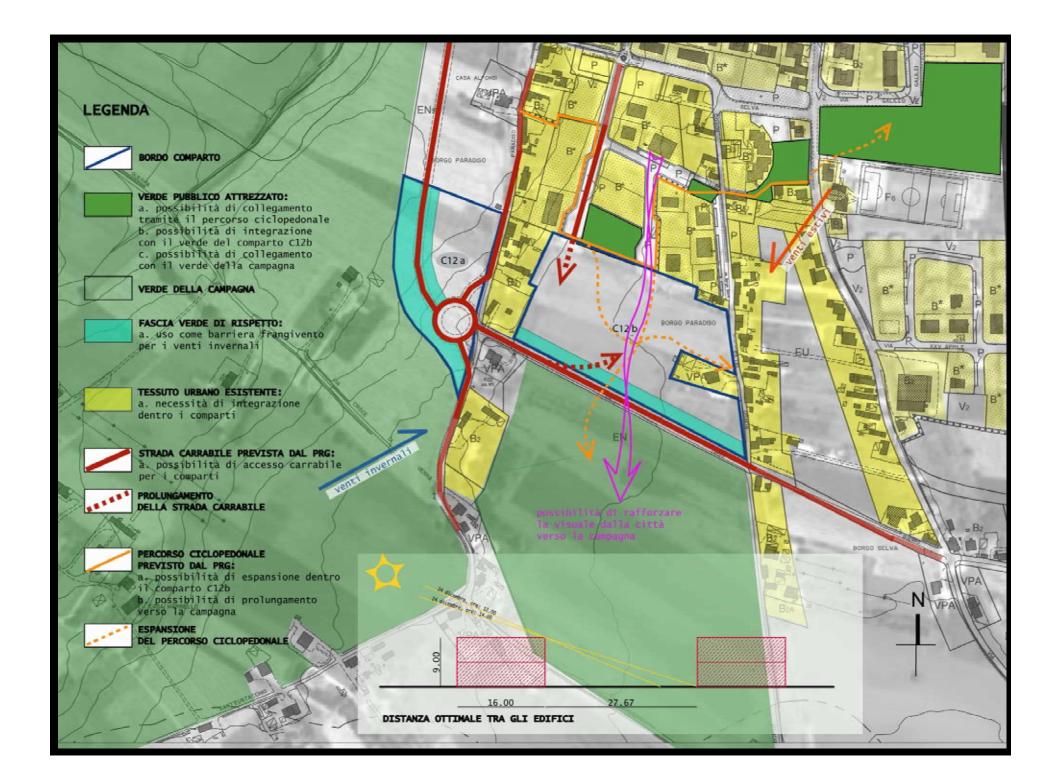
planning with principles of sustainability means to adopt a new way of designing the city and the buildings

# the urbanistic parameters and the quantitative data of the traditional urban design are respected as well



new analysies and new indicators are added to the traditional planning and are combined with it





planning in a sustainable way implies different uses of the territory

# any type of urban area can be planned in a sustainable way

# the residence





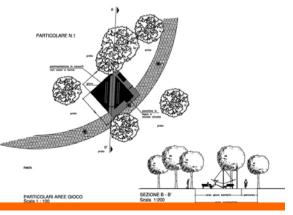
# the industry

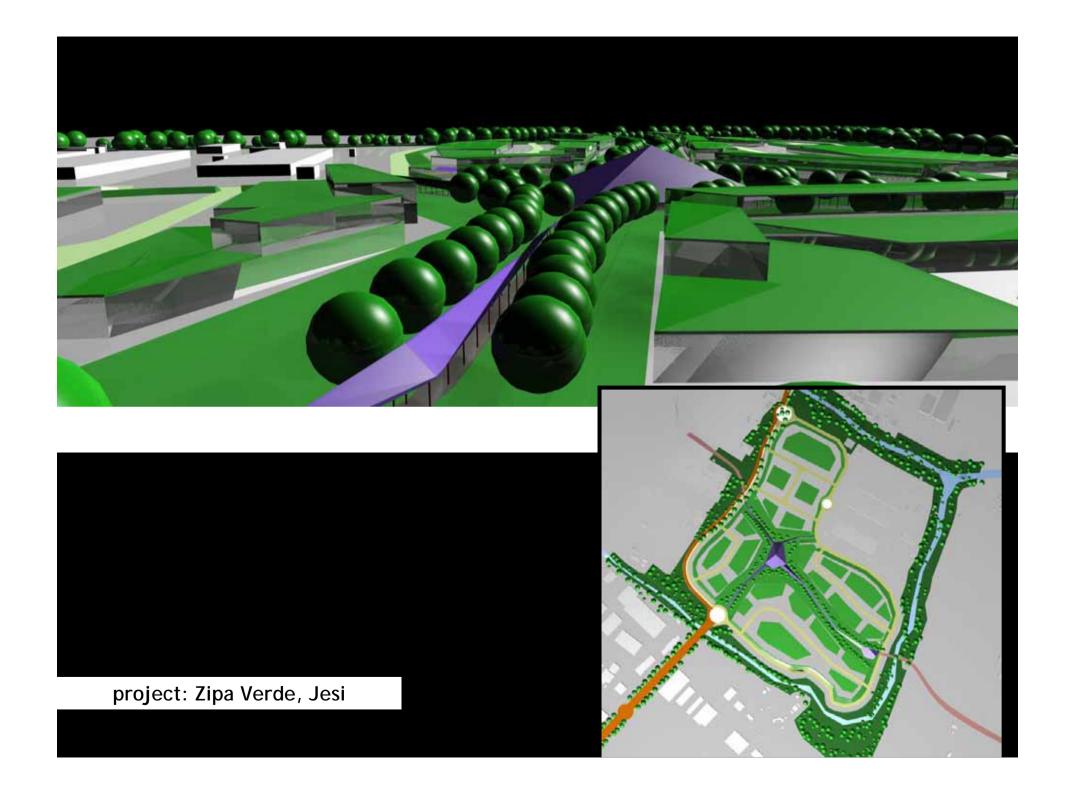


# the park



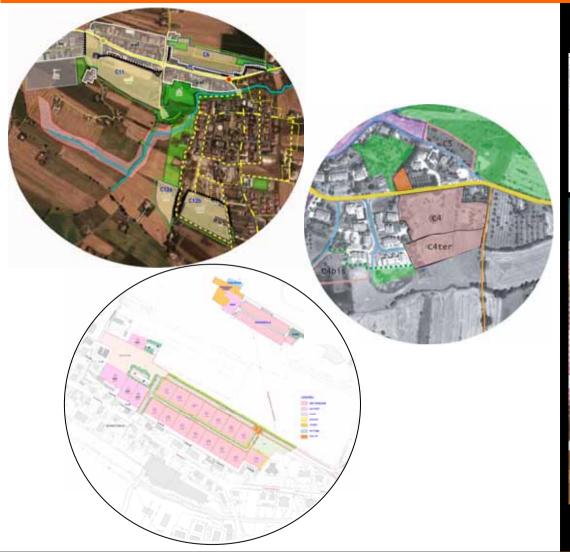






it is possible to plan in a sustainable way even if specific laws and regulations do not exist

# it depends on the political will to carry out a different planning and realizable approach



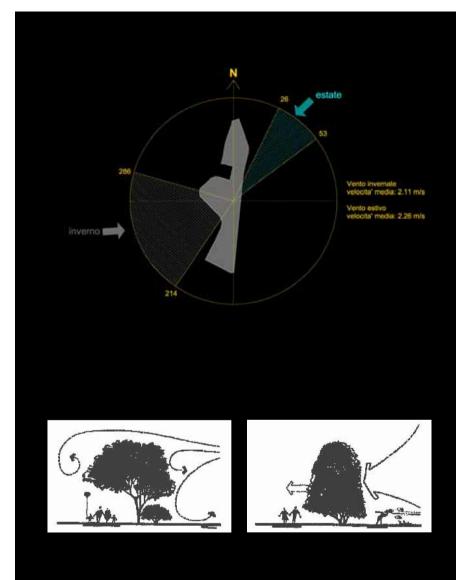




agreement with private owners

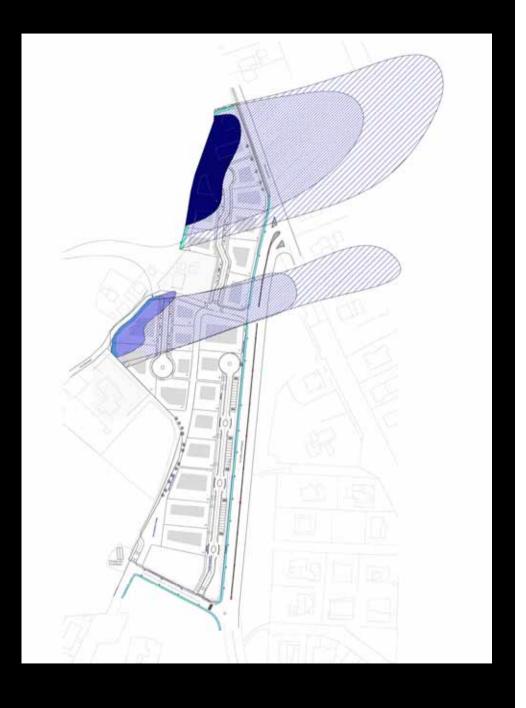
compensation of urban planning costs

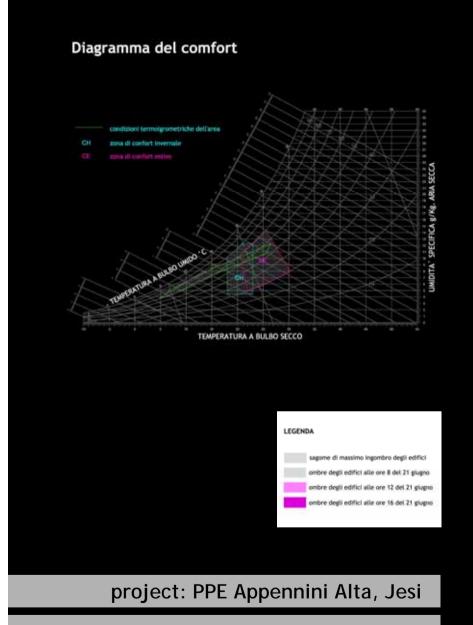
# control of the environmental characteristics



project: PPE Appennini Alta, Jesi

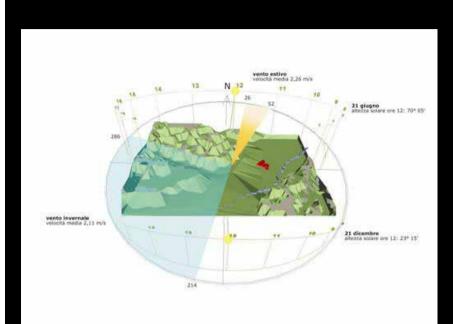
winds





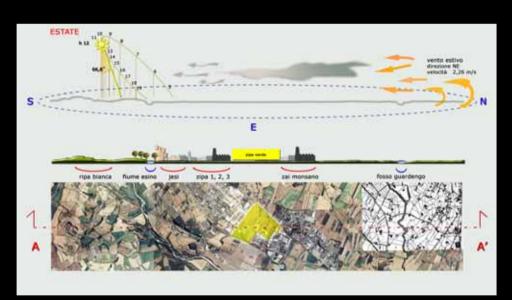
humidity and temperature

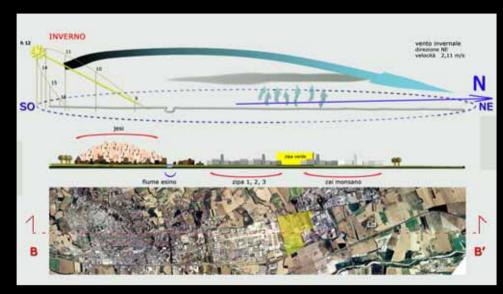




project: Zipa Verde, Jesi

# bioclimatic approach





# control of the territorial caracteristics

# project: border street, Monte San Vito

# elements of architectural composition of the street





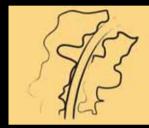






- incoraggiamento della riduzione della velocità
- aumento del senso di ignoto







### Effetto di 'enclosure'

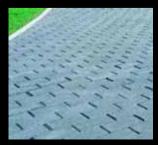
- favorisce la percezione della curva
- enfatizza la linea della strada
- abbraccia con lo sguardo una porzione del paesaggio

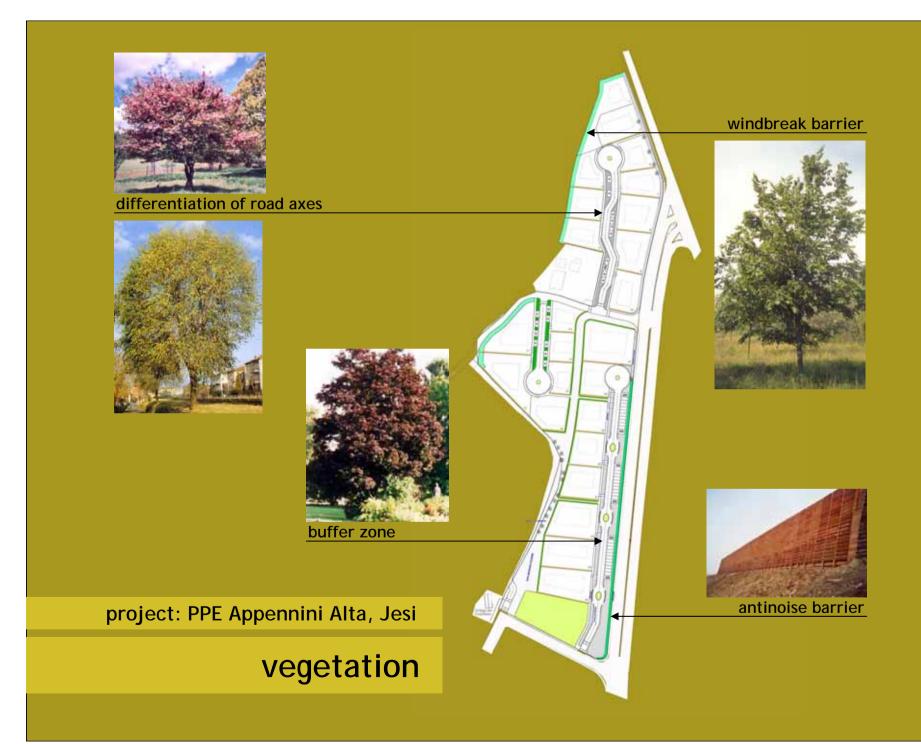


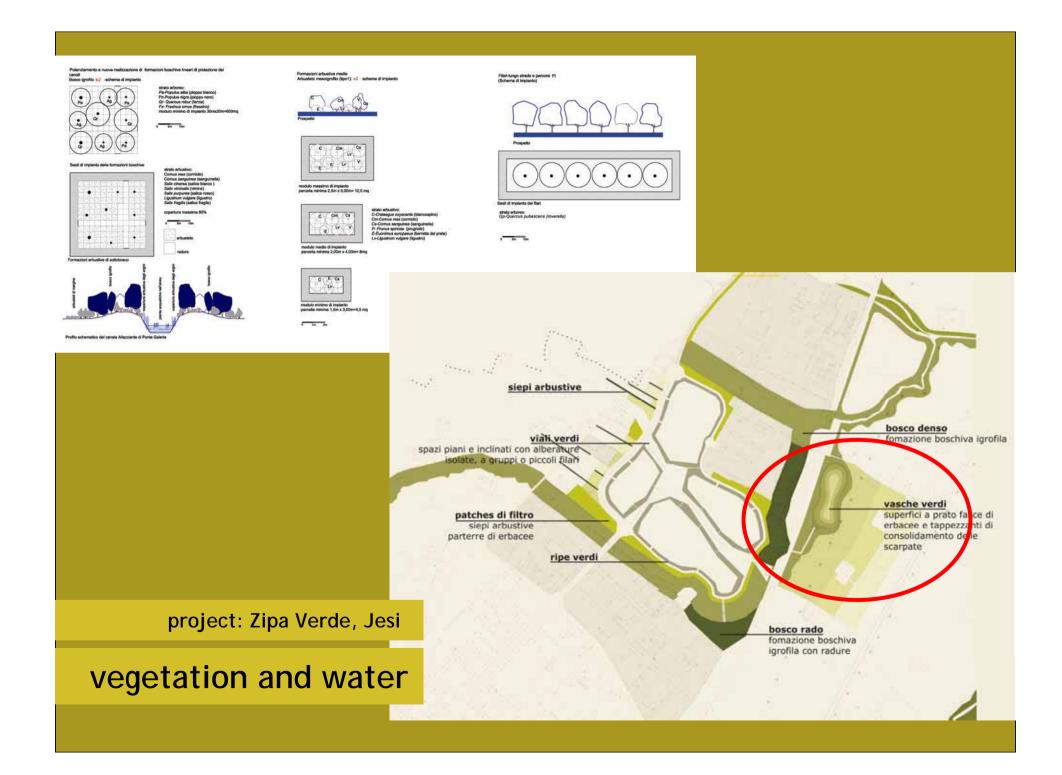


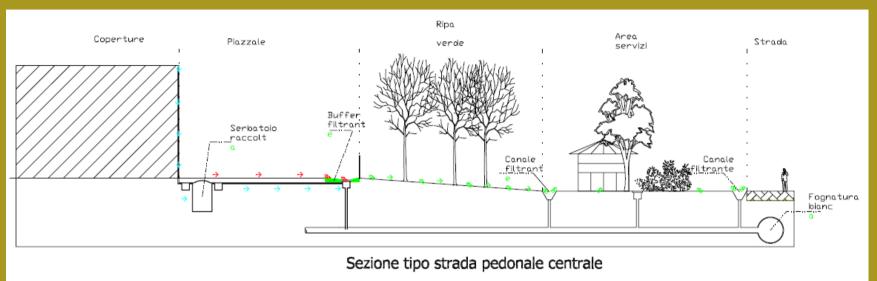




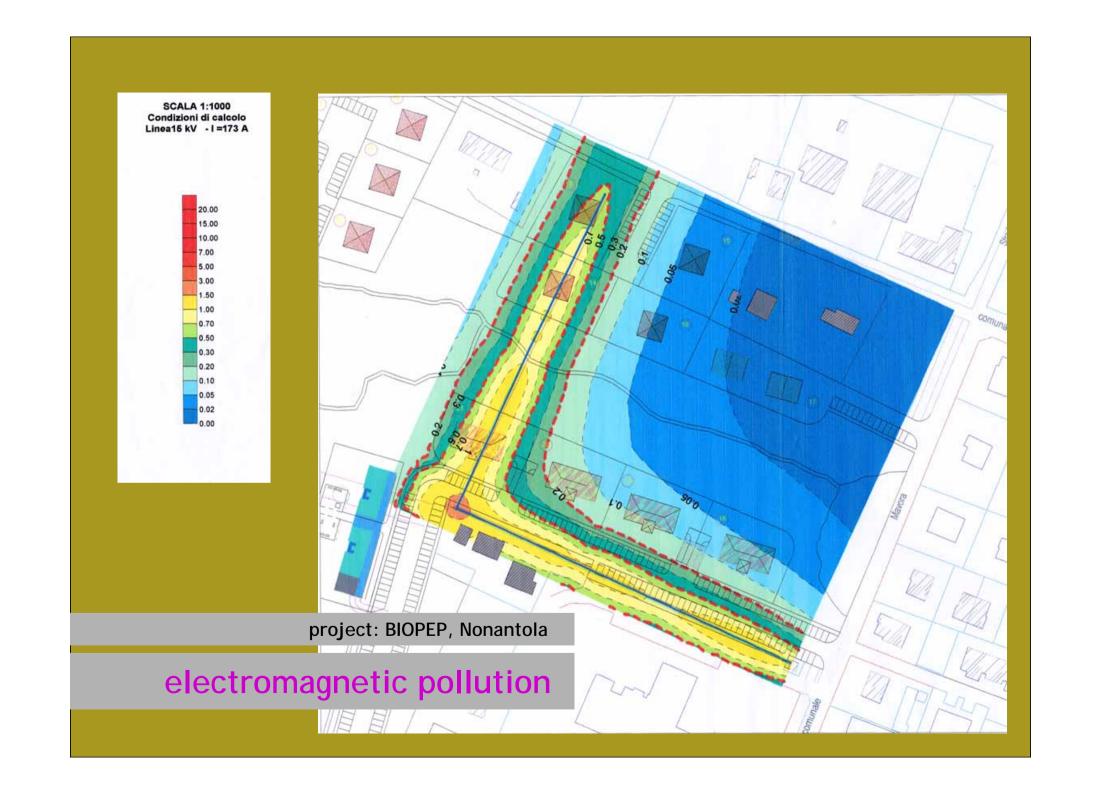


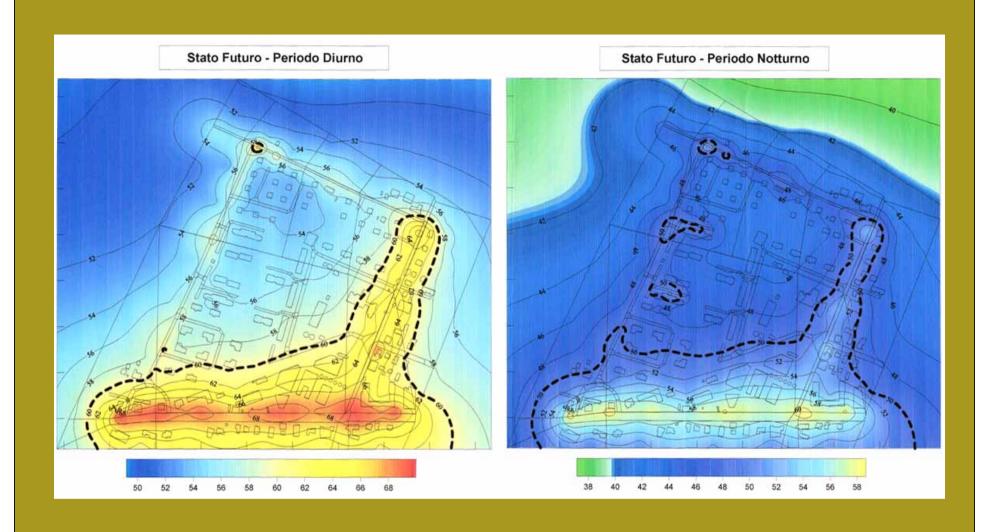










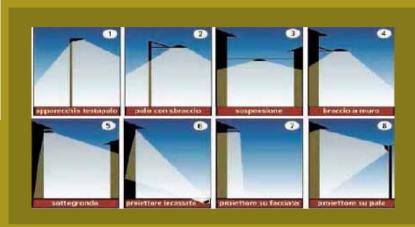


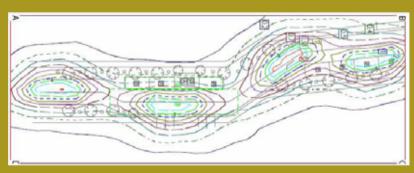
project: BIOPEP, Nonantola

acustic pollution









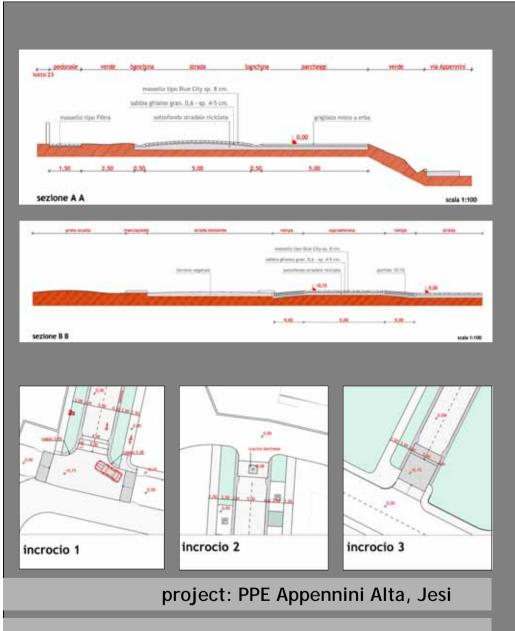


project: PPE Appennini Alta, Jesi

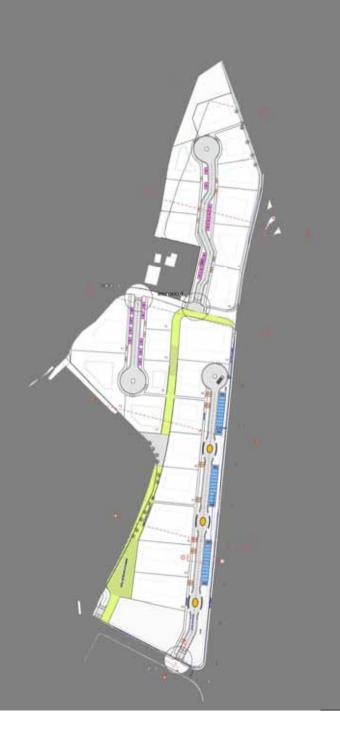
**luminosity** pollution



# control of the technological components and systems



# mobility

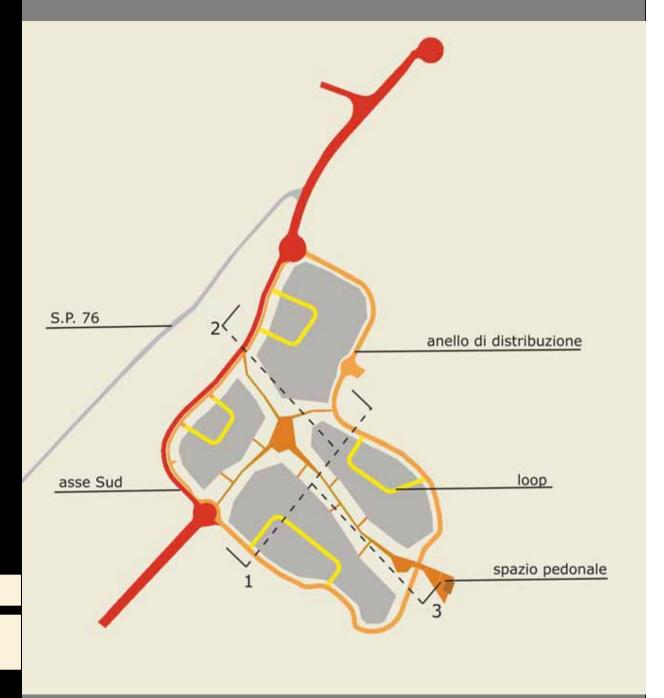


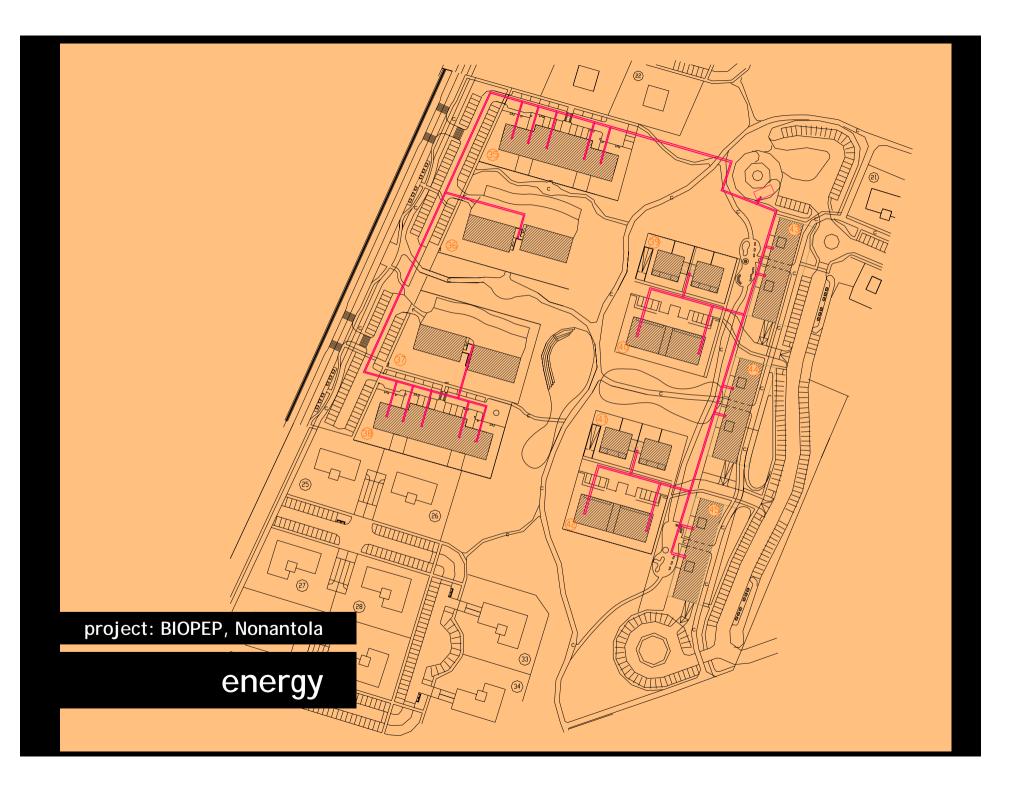




project: Zipa Verde, Jesi

# mobility

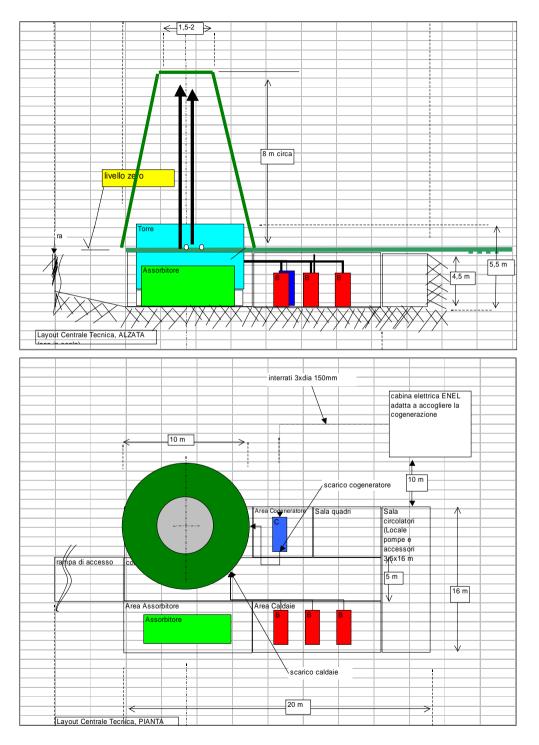


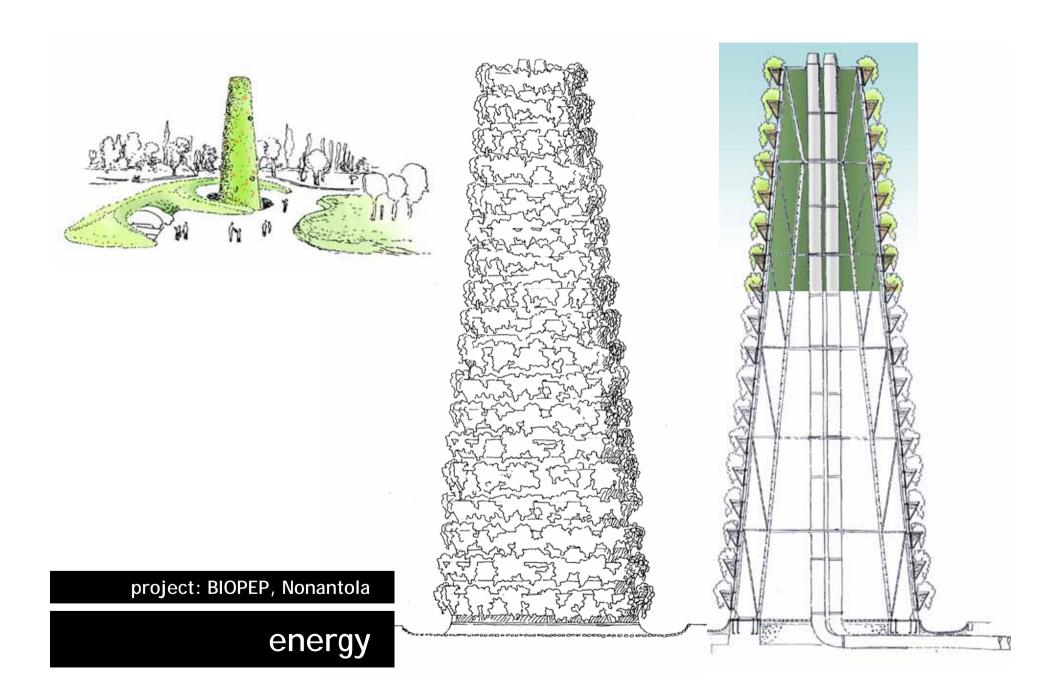




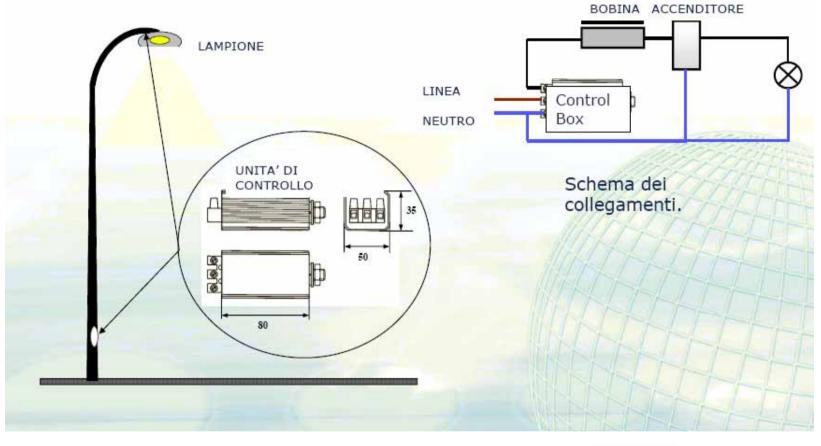
project: BIOPEP, Nonantola

energy





## Posizione dell'unità di controllo.



project: Appennini Alta, Jesi

public illumination

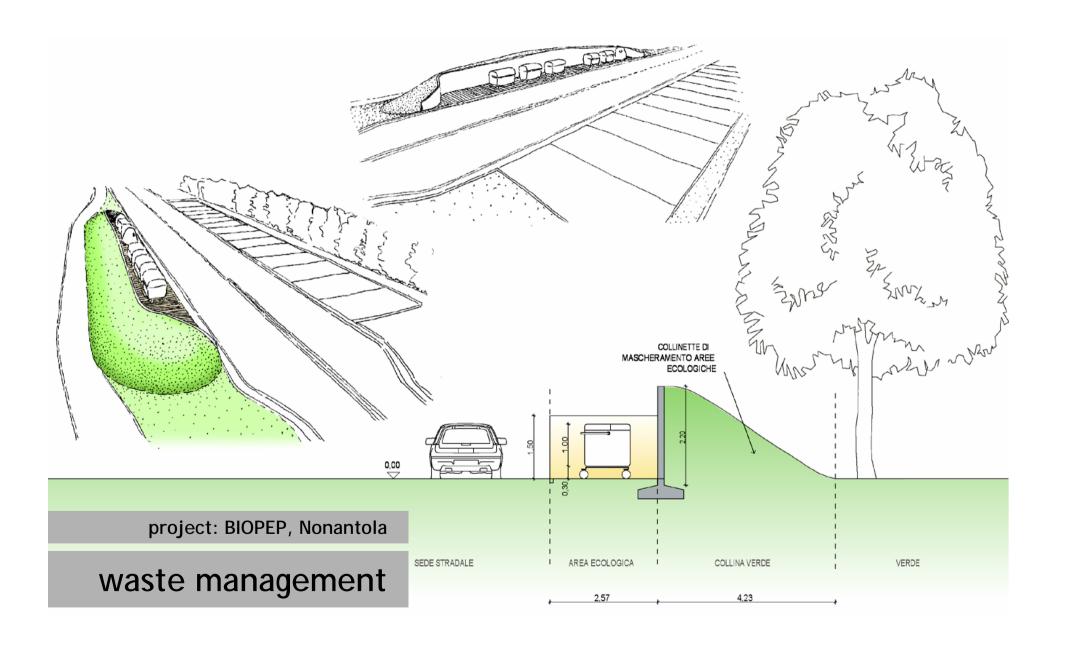


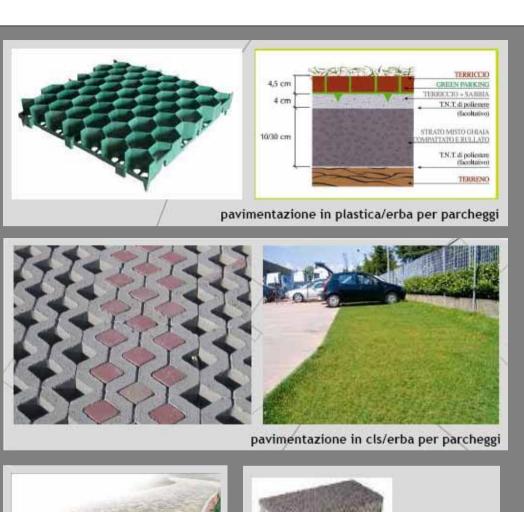






# ecological "islands" behind vegetation hills





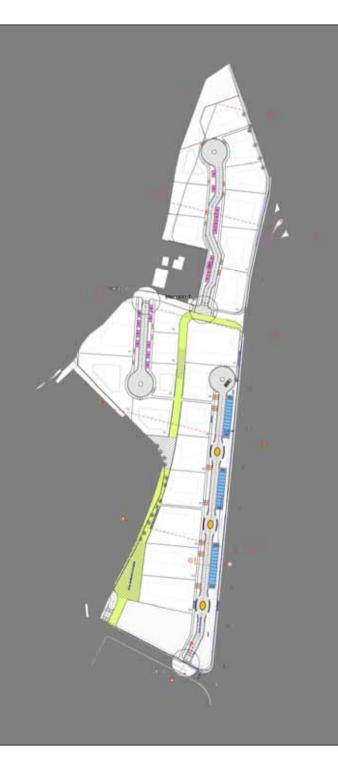


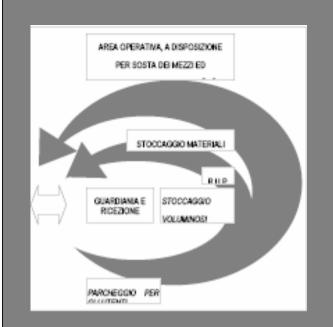


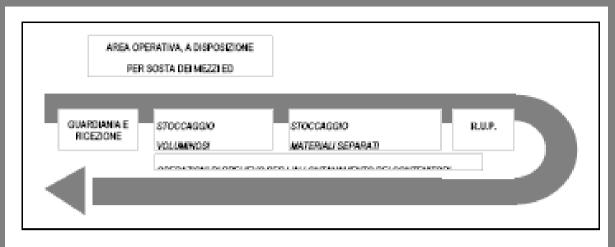
pavimentazione per percorsi pedonali

project: PPE Appennini Alta, Jesi

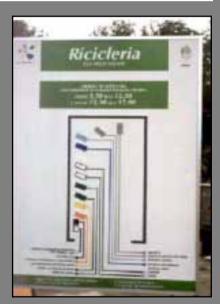
materials for urban works











project: PPE Appennini Alta, Jesi

site management







# control of building performance characteristics

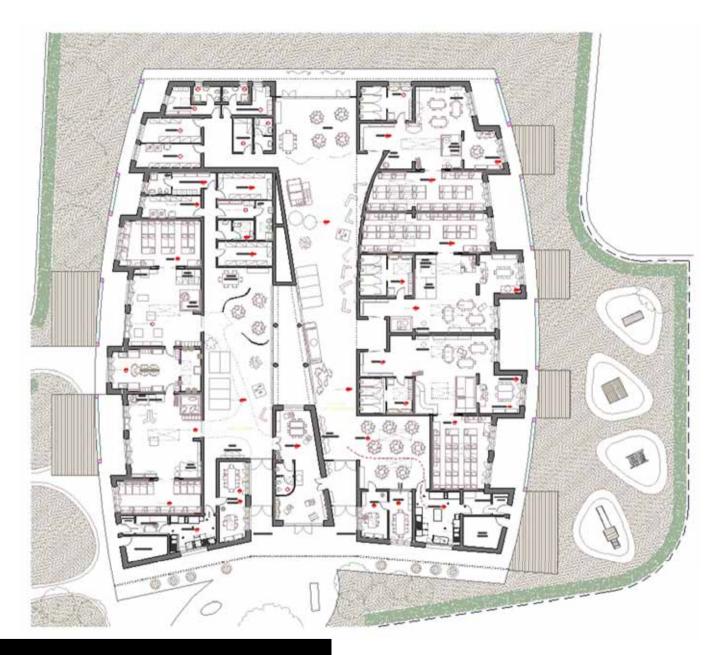
# Functional characteristics of low-cost buildings:

- 1. Walls with windows
- 2. Passive solar systems and direct gains
- 3. Alternative energy
- 4. Reduction of energy consumption
- 5. Energy efficiency
- 6. Use of rain water
- 7. Reduction of hydrical consumption
- 8. Electrical installation
- 9. Calculation of useful surface
- 10. Ecological materials

project: Compartment C6, Monte San Vito

building performance characteristics





general planimetry





















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