



- ...
- Milano - Headquarter CAP
- Milano "Magnifica Fabbrica"
- Palermo - Centro Direzionale Regione siciliana
- Parco di Bagnoli
- OrbiTexture
- ...



L'ACQUA

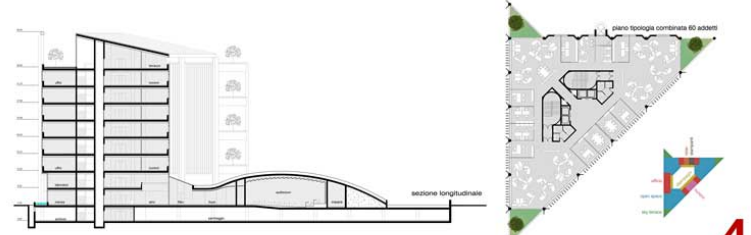
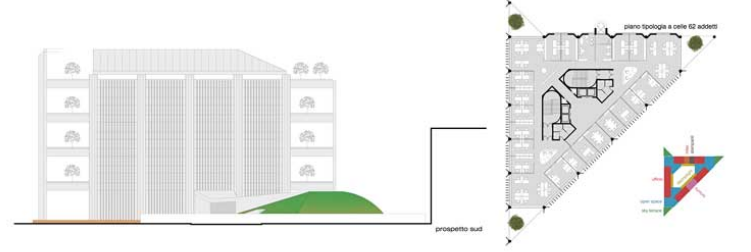
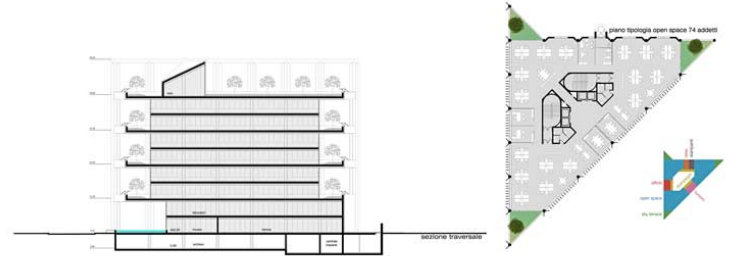
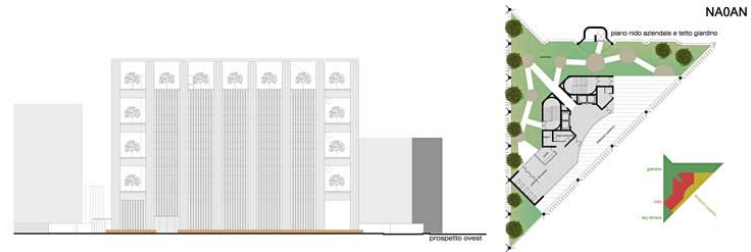
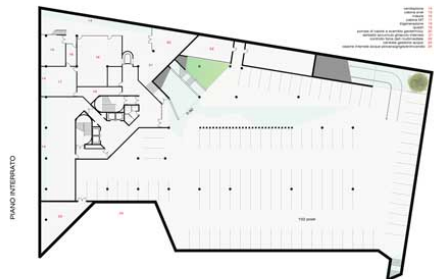
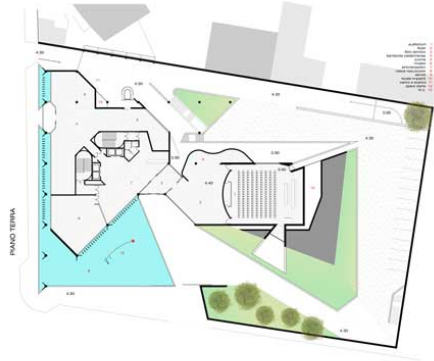
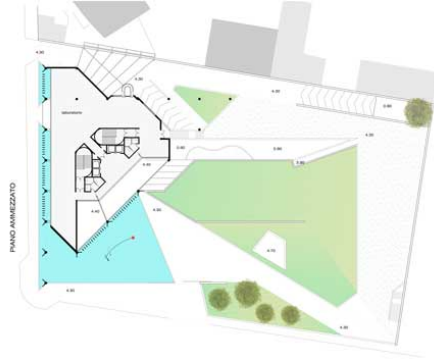
nebulizzata scorre in canali verticali lungo i pilastri,
quindi nella vasca lineare alla base della facciata,
collegata a una vasca più ampia
che accoglie una scultura

è raccordo con il contesto
memoria del suo ruolo storico nella città

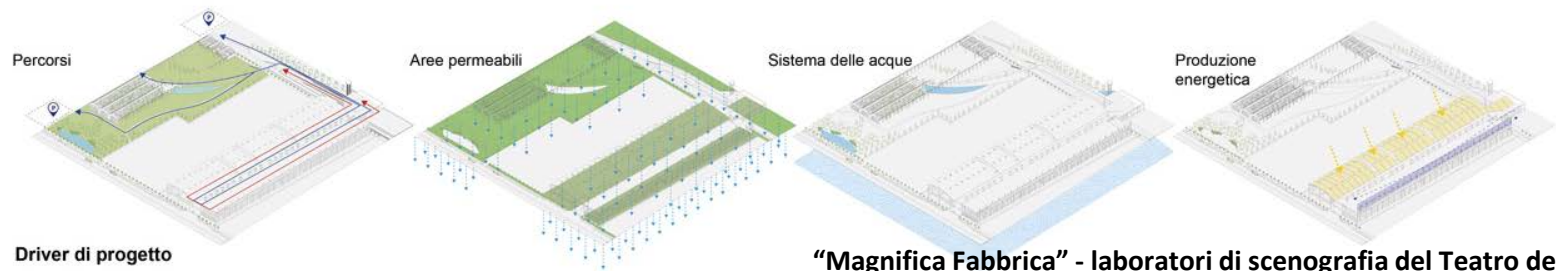




sky-terraces a doppia altezza



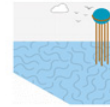




“Magnifica Fabbrica” - laboratori di scenografia del Teatro della Scala di Milano

Usi del parco

a piazza dell'acqua



b terra preta



c teatro all'aperto



d rain garden



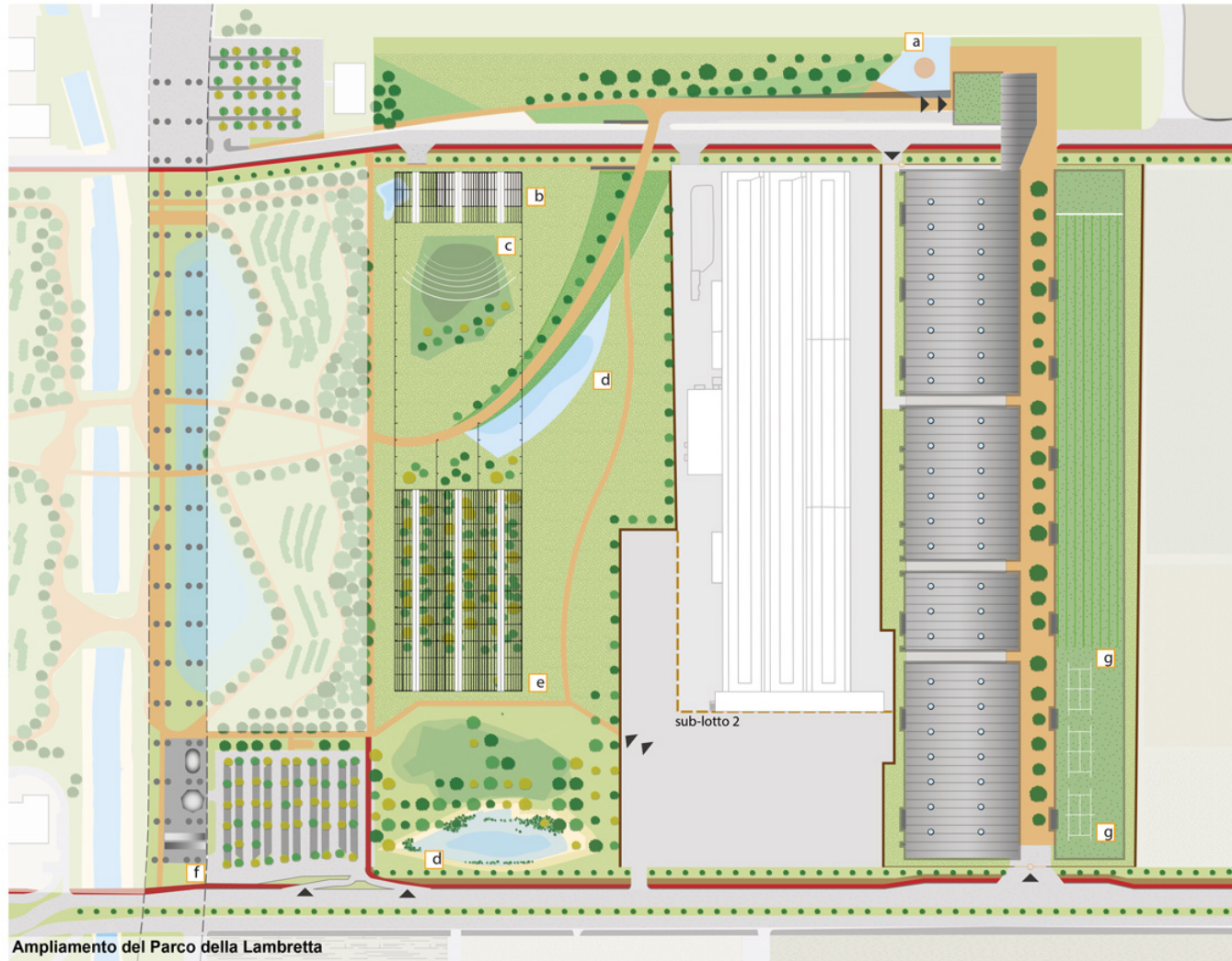
e orto botanico



f skatepark

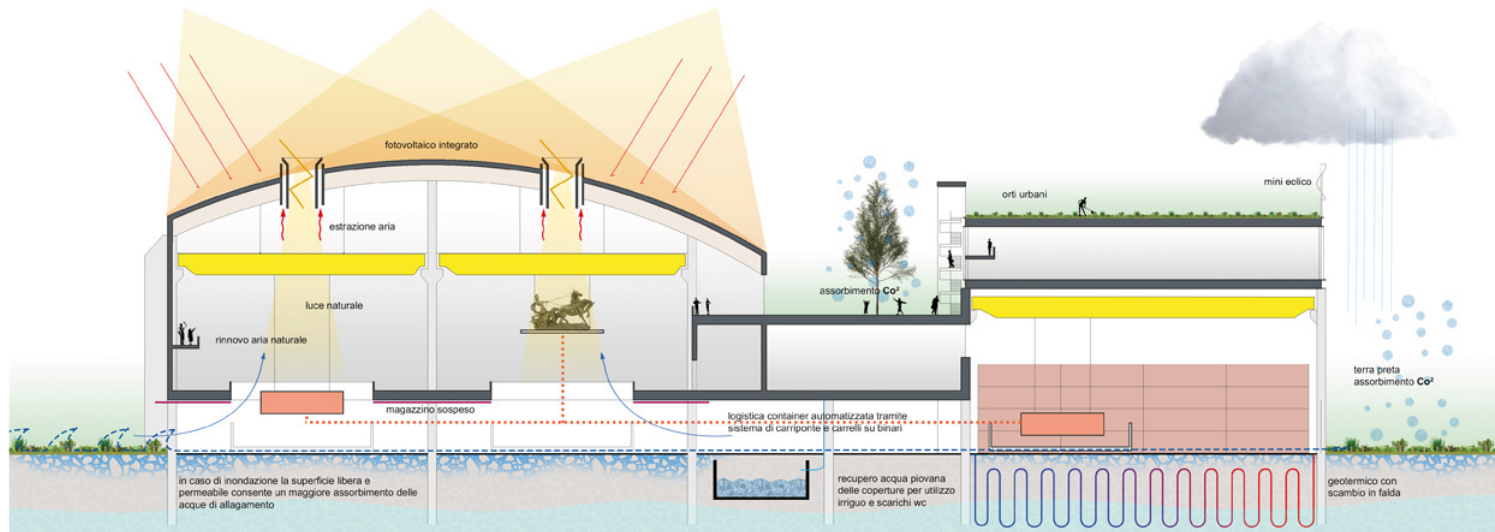


copertura:
g orti urbani-sport

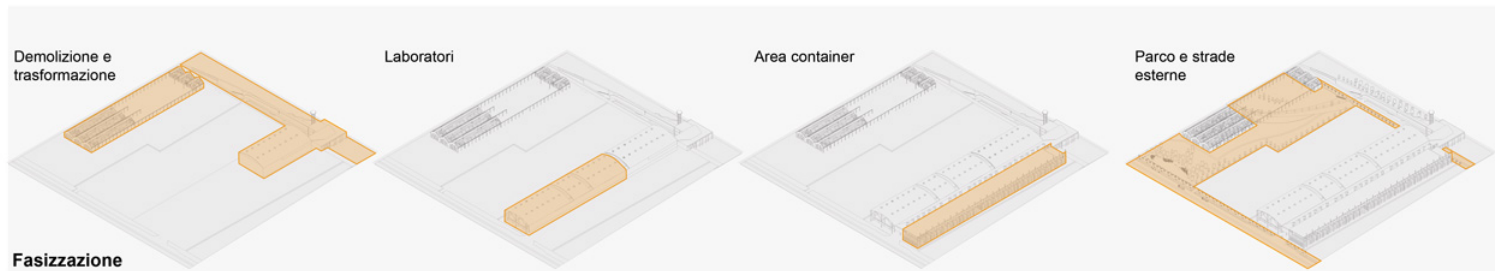




Sezione longitudinale



Sezione trasversale









Palermo - Centro Direzionale Regione siciliana



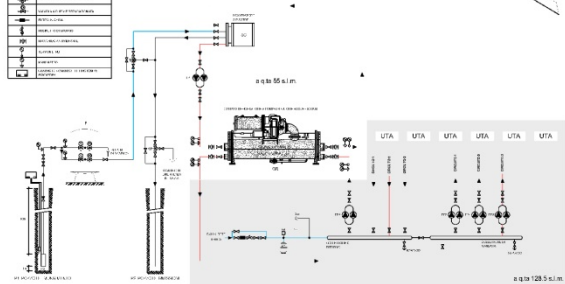
SIVIBUS
Office Assistance
IVECO

COMERCIAL

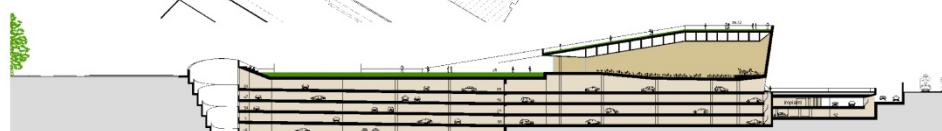


LEGENDA

	SERVIZIO ACQUEDOTTI
	SERVIZIO FOGNARI
	SERVIZIO GAS
	SERVIZIO ENERGIA
	SERVIZIO RISCALDAMENTO/RAFFRESCAMENTO
	VENTILAZIONE
	SCALE
	LIFT
	RAMPANTI
	PARCHING
	VIA
	CONFINI
	VEGETAZIONE



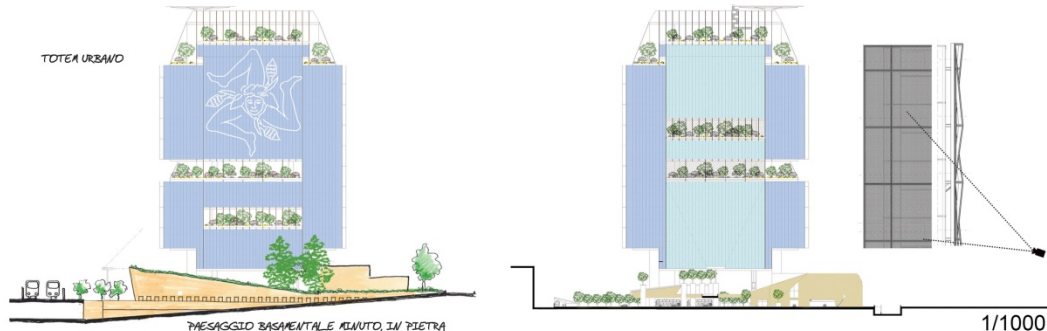
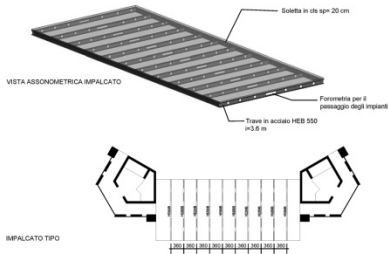
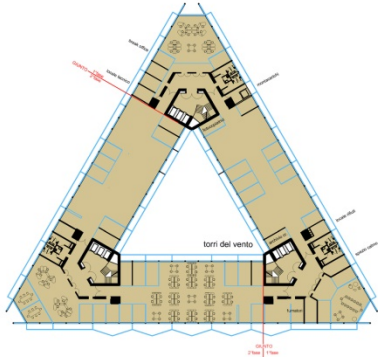
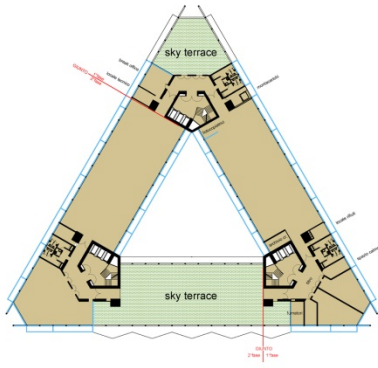
SCHEMA CENTRALE TERMOFRIGORIFERA



11 * M1

SEZIONE X scala 1/500

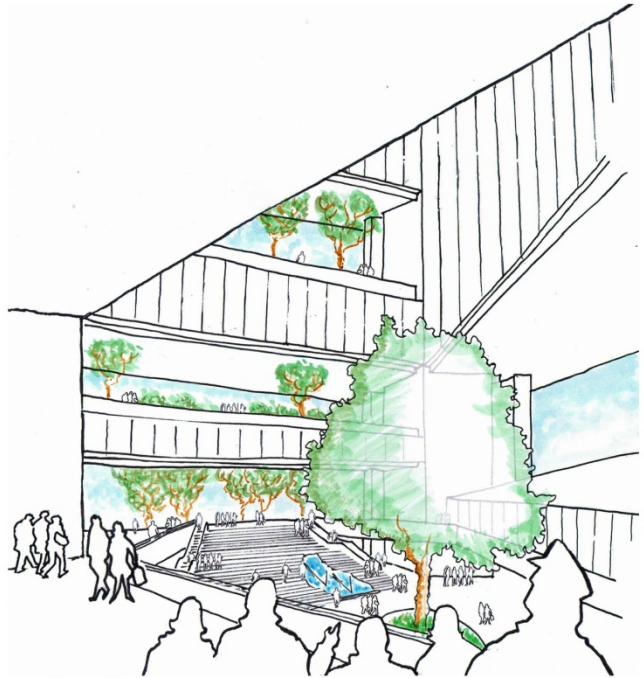
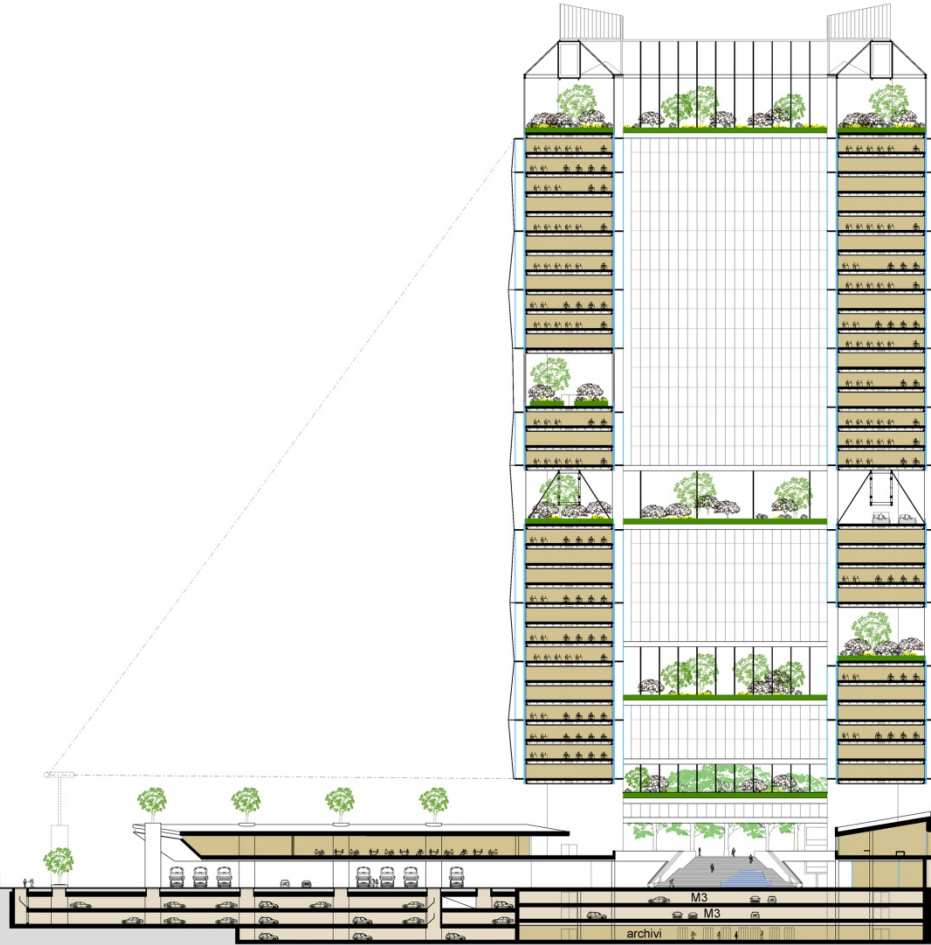
POSSIBILITÀ ALTERNATIVE DI DISTRIBUZIONE scala 1/500



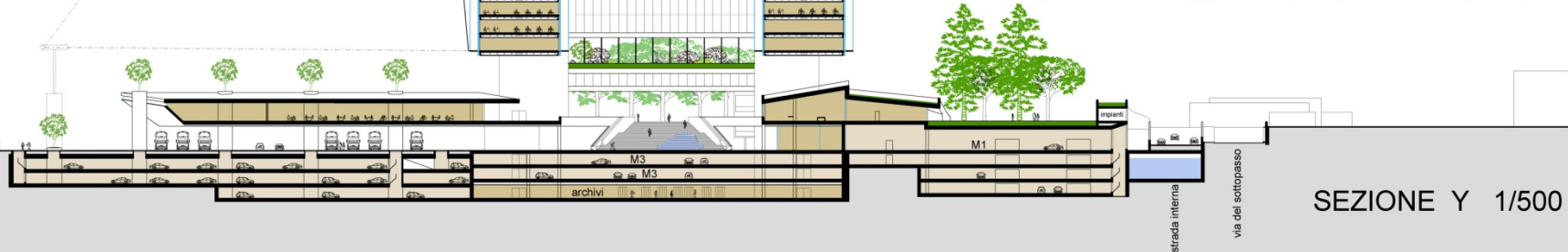
B 12AAXYZW

SEZIONE Z scala 1/500

1/1000



la corte interna



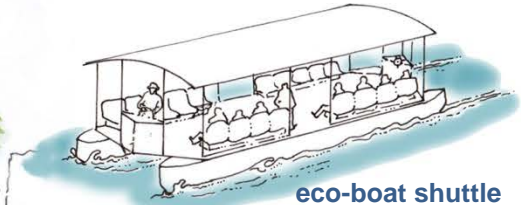
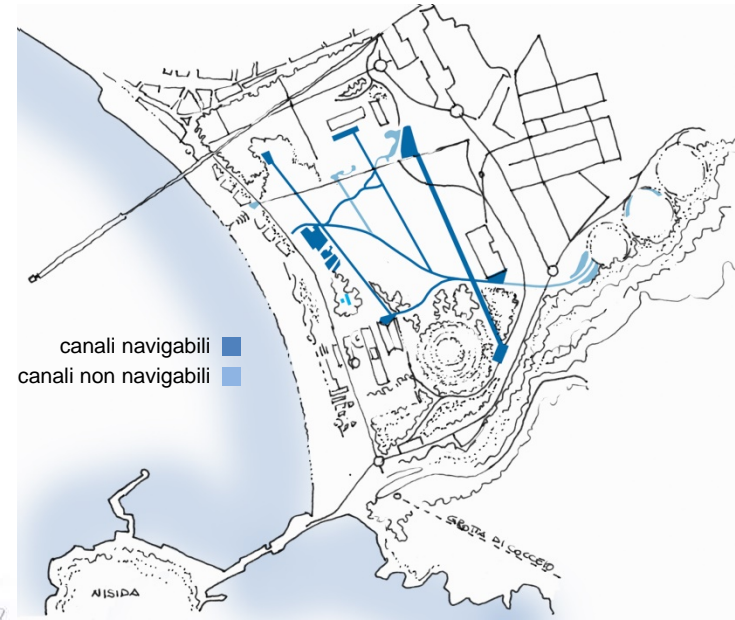
SEZIONE Y 1/500



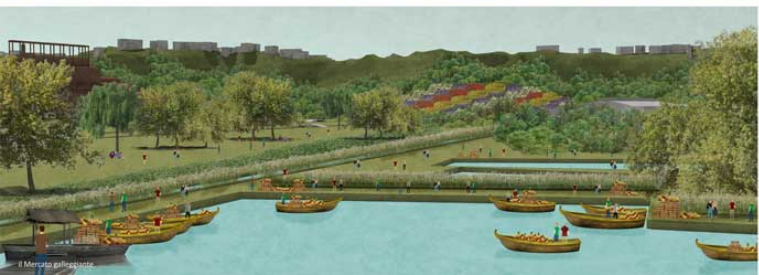
Parco di Bagnoli

NAVETTE ECOLOGICHE

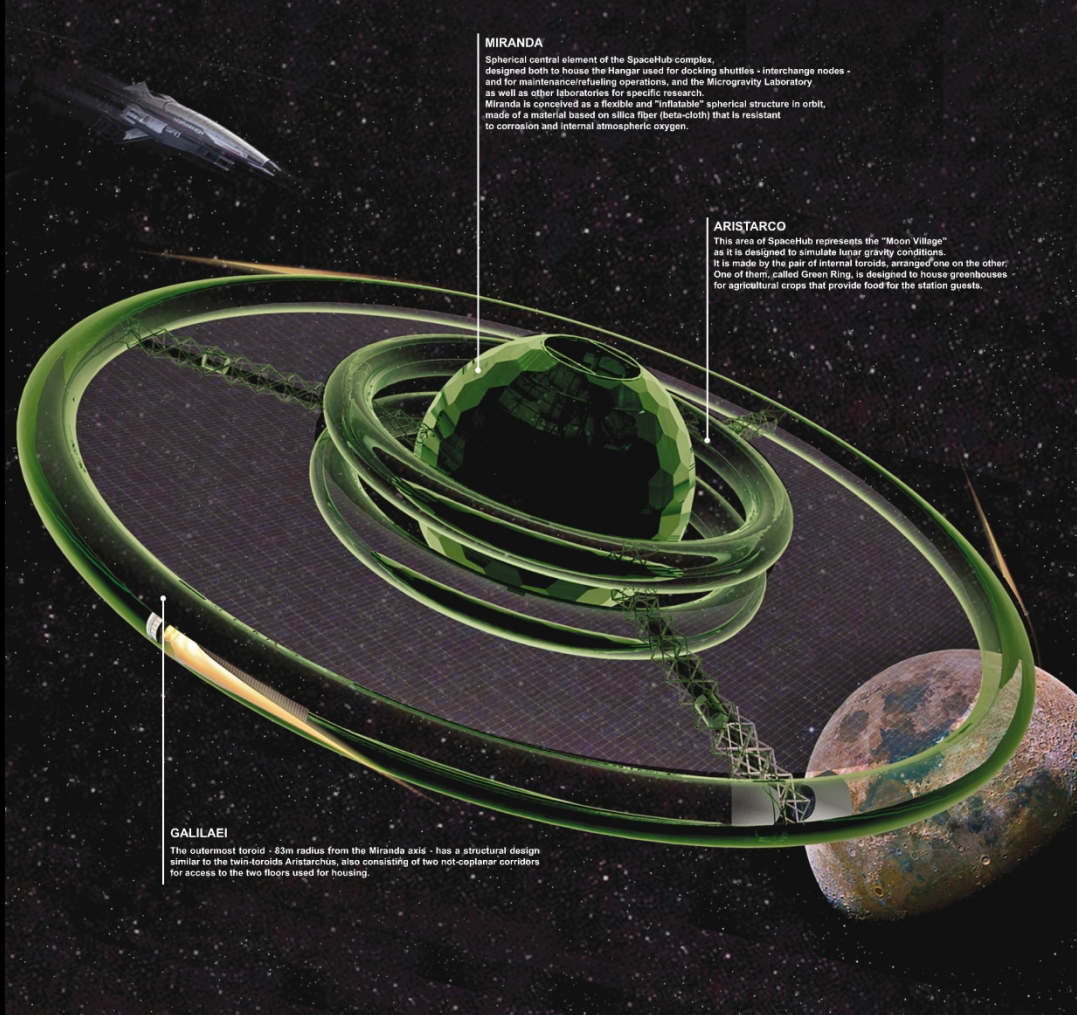
ecoboat



eco-boat shuttle
Parco di Bagnoli



Parco di Bagnoli



MIRANDA

Spherical central element of the SpaceHub complex, designed both to house the Hangar used for docking shuttles - interchange nodes - and for maintenance/refueling operations, and the Microgravity Laboratory, as well as other laboratories for specific research. Miranda is conceived as a flexible and "inflatable" spherical structure in orbit, made of a material based on silica fiber (beta-cloth) that is resistant to corrosion and internal atmospheric oxygen.

ARISTARCO

This area of SpaceHub represents the "Moon Village" as it is designed to simulate lunar gravity conditions. It is made by the pair of internal toroids, arranged one on the other. One of them, called Green Ring, is designed to house greenhouses for agricultural crops that provide food for the station guests.

GALILAEI

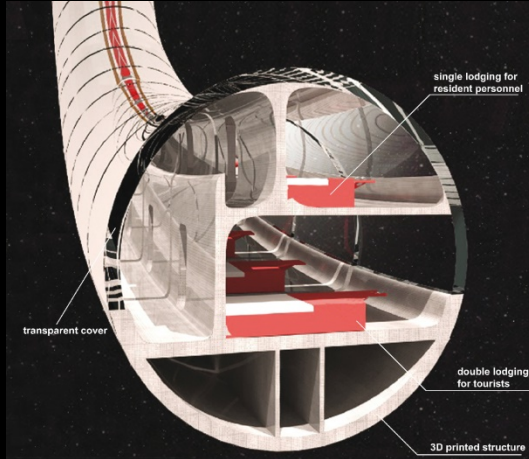
The outermost toroid - 83m radius from the Miranda axis - has a structural design similar to the twin-toroids Aristarchus, also consisting of two not-coplanar corridors for access to the two floors used for housing.

SpaceHub

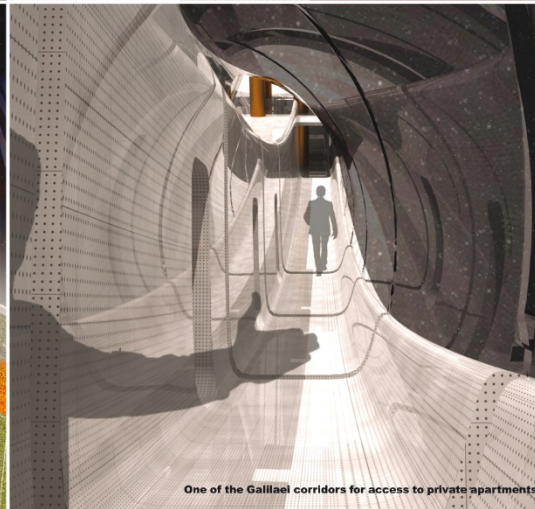
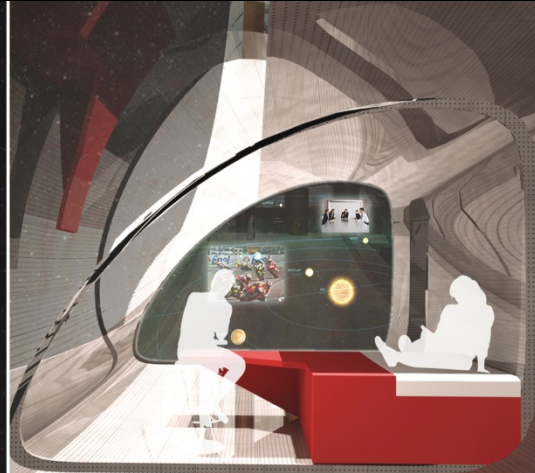
main features

Design criteria for continuous presence in space :

- hosts 100 people, including operators, researchers and tourists
- rotates around its axis at 2 rpm to produce different values of centrifugal acceleration simulating different gravitational conditions.
- has a planetomorphic concept :
 - **Miranda**, the central sphere of 44m in diameter, houses the hangar for spaceships docking and the microgravity laboratory. Connected by 3 "capsules/elevators."
 - **Aristarco**, at 38m of distance from the axis, two overlapping toroids with moon Gravity.
 - **Galilaei**, at 83m from the axis, toroidal element with gravity Martian.
- manufactured and assembled in situ, with inflatable structures technologies and additive manufacturing (3D printing) processes with metallic and non-metallic materials.
- for the livelihood of the inhabitants, includes 6.000 m² of edible crops in addition to green areas for a comfortable and a better life habitat on board.
- in order to support missions to Mars and Moon, has training rooms.



Galliaei external toroid section, single and double rooms arranged on two floors



SpaceHub

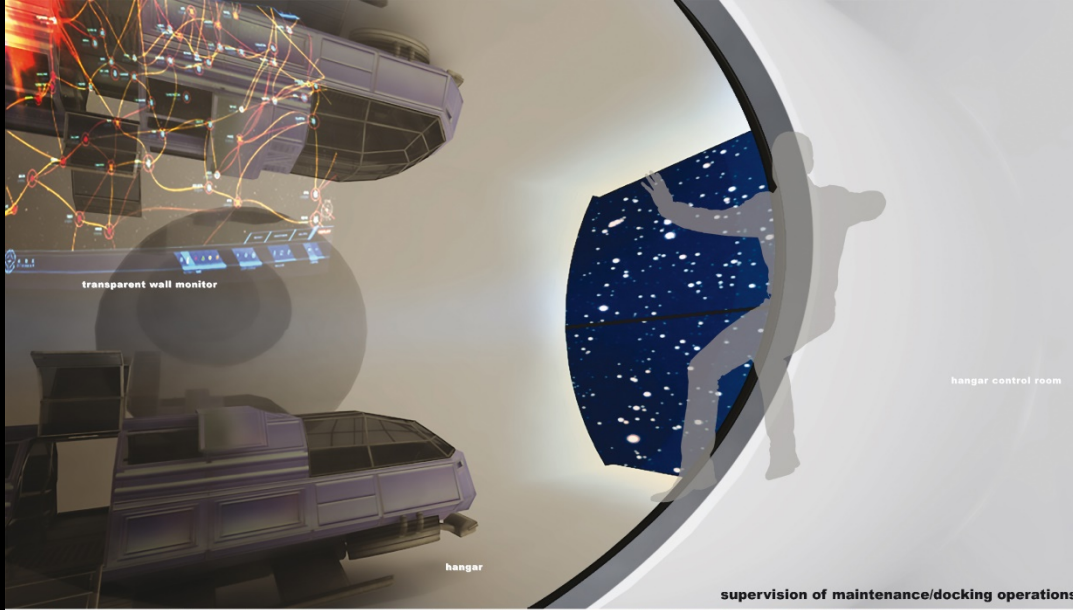
internal livability environments

Spaces for research :

- 70% of the laboratories are within Miranda, in reduced gravity.
- the "microgravity laboratory", connected to the structure with bearings, remains inertially steady without being affected by the centrifugal force produced by rotation.
- several laboratories are located in Aristarchus and Galliaei to study situations related to lunar and Martian environments.

Spaces for tourism and relax :

- Aristarchus and Galliaei contain spaces of stay and socialization equipped with pieces of artwork, local of refreshment, religious spaces, green areas and areas for sports.
- single rooms for the crew and long-stay operating staff; double rooms for tourists.
- 30-40 resident tourists are expected for limited periods - hosted in mini-apartments of approximately 25 m².
- an environment is provided in Miranda for holographic cinema and theater.



transparent wall monitor

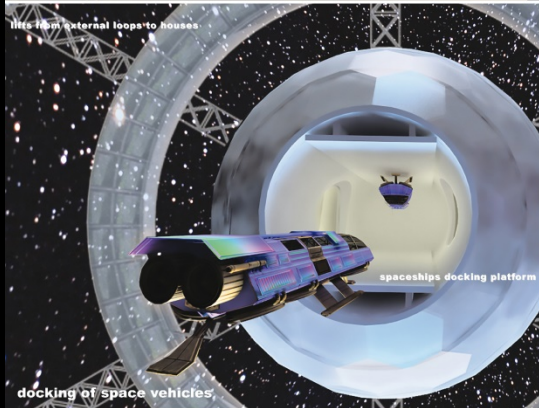
hangar

hangar control room

supervision of maintenance/docking operations

SpaceHub

technical and support spaces



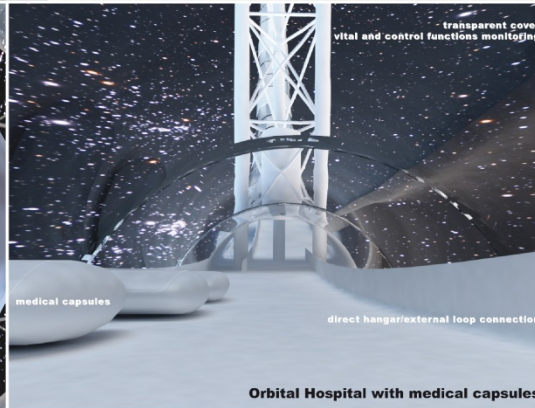
hangar external loops to houses

spaceships docking platform

docking of space vehicles

CENTER FOR NEAR SPACE

SpaceHub



transparent cover
vital and control functions monitoring

medical capsules

direct hangar/external loop connection

Orbital Hospital with medical capsules

hangar

- handles arrival/departure function and traffic management, maintenance/refueling and access to the structure. True heart of the Spacesub. Interior characterized by two platforms of opposing moorings that allow approach and subsequent anchoring of spaceships for boarding operations, refueling and maintenance

hangar control room

- control room located outside of the hangar (inside Miranda); the monitor window allows the supervision of the operations of docking and maintenance with the aid of AI (artificial intelligence) and AR (augmented reality). The space is such that it can accommodate at the same time 4 specialists in microgravity condition

medical room

- equipped with 5 beds and an emergency room. Located on Anarchus; guarantees the health control of the occupants and constant monitoring of patients in different conditions from the terrestrial environment, in addition to the usual intervention practices