

LOSA

Proposal for a logistic hub for the health care market in Piedmont, Liguria and the Aosta valley



With the contribution of:

CAMERA DI COMMERCIO INDUSTRIA ARTIGIANATO E AGRICOLTURA DI TORINO

January 2022

CASE STUDY: THE LOSA LOGISTIC HUB FOR THE HEALTH CARE MARKET IN PIEDMONT, LIGURIA AND THE AOSTA VALLEY



Logistics in Piedmont

In terms of accessibility, the Italian National Institute of Statistics (Istat) ranks Piedmont at 49.9, slightly better than the averages for the North West (50.3) and Italy (51.8).

However, the picture is very uneven : accessibility is best in the South-Eastern district with the best accessibility indices being in Novara and Alessandria, both because their positions as crossroads and because of access to a good motorway network. Turin follows the other two cities.

Existing logistic facilities, as well as growth and development scenarios linked to the completion of European corridors **indicate three clusters**:



The Alessandria District: a natural backport for Liguria, given the number of highly specialised centres for specific goods in Tortona, Rivalta Scrivia and Arquata Scrivia;

The Novara District thanks to its C.I.M. - *Centro Interportuale Merci di Novara*, the highly specialized Novara Goods Interport at the crossroads of two European Corridors and close to the Malpensa airport hub, with ongoing development plans.

The Turin District with SITO, close to the regional capital city and to the Turin-Lyon railway, that could also witness the development of city logistics activities.



LOSA (Hub LOgistico della SAlute)

A Logistics Platform servicing Science Production the Life System and Health Care can find a home in the Region Piedmont, considering the demand for drugs & devices that had been growing even outbreak before the of the pandemic. Specifically, the Province of Turin with its airport and a potential to develop its cargo activities, crossroad between а Piedmont's manufacturing plants, the main heath care providers are connected to Liguria and the Aosta Valley as well as to Malpensa, the main cargo airport of the Northern Italy.

Background 01 POPULATION → Catchment area of 6 million people, 1.5 million being over the age of 65. Ageing population and a growing demand for health services / care → 59 million prescriptions filled in 2019 02 HEALTH SERVICES → Over 120 pubblic and accreditated health facilities throughout the community which means 20.028 standard hospital beds → Concentration of the largest hospitals in the Turin and Genoa metropolitan areas 03 EMERGENCIES Covid-19 Pandemic and the risk of new health emergencies (WHO, 2019, 2021) 04 INDUSTRY → Growing industry with specialized clusters in drug production and device manufacturing in the Ivrea District (Bioindustry Park), Saluggia, Novara and Genoa 05 ACCESSIBILITY & LOGISTICS A Road and motorway networks Railways (Mediterranean and the Rhine-Alps) Corridor) Ports (Genoa, Savona Vado) Airports (Turin Caselle, Milan Malpensa) Available Logistic Facilities: Turin area (the Orbassano Site), the Alessandria Pole, Novara (CIM interport) -

LOSA (Hub LOgistico della SAlute)

ESG (Environmental, Social and Governance)

Image: Construction of the second second

LOSA in PILLS





03 COST ESTIMATES

SIZE (BUILT SURFACE)

→ from 700 to 1000 €/square metre

→ 18,000 to 24,000 square metres

04 TIME LINE

Where do we start

01

02

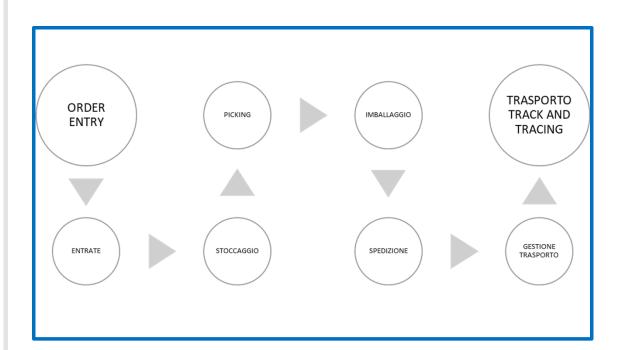
- → 1. Feasibility Study: 9 months including the identification of a financial partner, a costruction partner and one for the logistics management of the platform
- → 2. Executive Project Design : 6 months
- \rightarrow 3. Completion: 12/18 months





LOSA (Hub LOgistico della SAlute)

Distribution Flow



Integrated Logistics Services

- → Warehousing: controlled, room or refrigerated temperature for drugs and active ingredients (API system) and transport. Different goods and commodities can be stored at the appropriate temperature and monitored using radiofrequency technology :
 - → 2-8°
 - \rightarrow 20°
 - \rightarrow 15°-25°
- → Packaging of drug production: all packaging will be according to standard GMP (Good Manufacture Practice)
- Warehousing and transport of biological samples
- Urgent 24/7 shipping of life saving products
- → Specialised Home Care Channel
- → Warehousing, shipping and withdrawl of prostheses and devices, instruments and disposables on demand directly from operating theatres (return logistics)
- Direct deliveries to the pharmacy channel
- → Labelling: all labelling according to standard GDP (Good Distribution Practice)

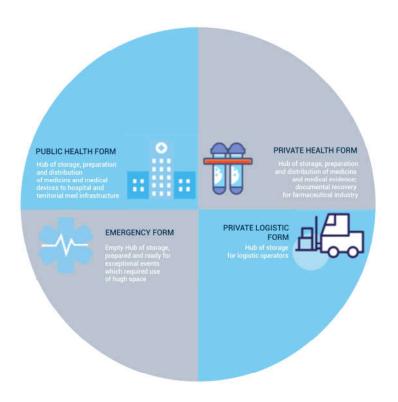








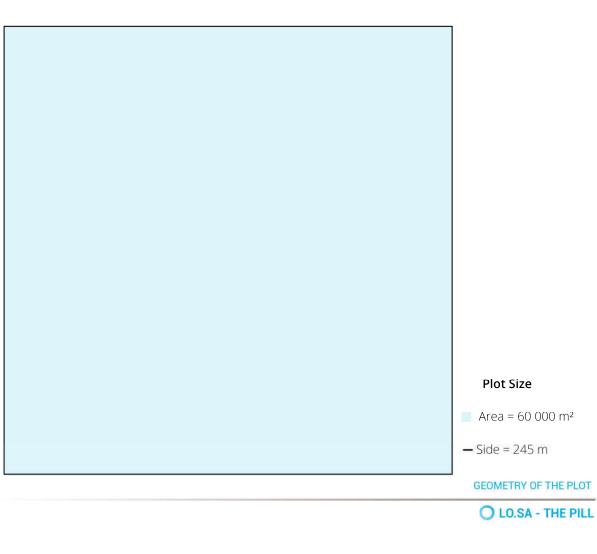
DESIGN SUGGESTION





LO.SA. DESIGN SUGGESTIONS

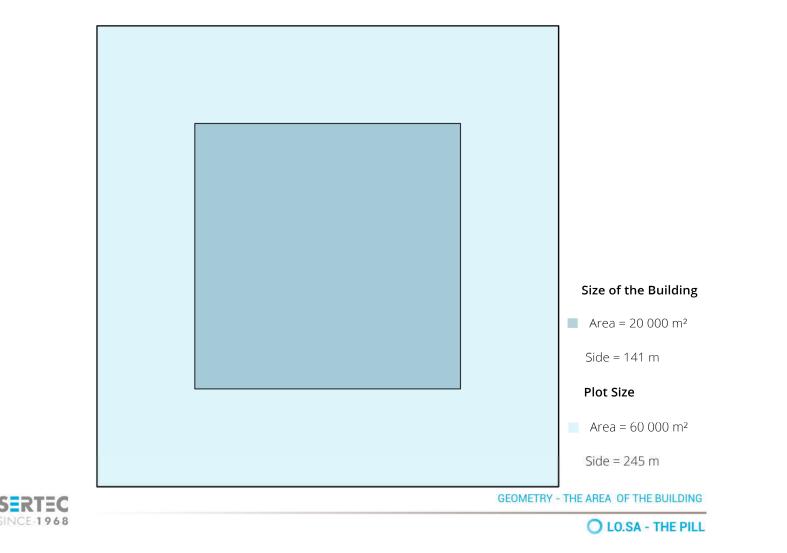






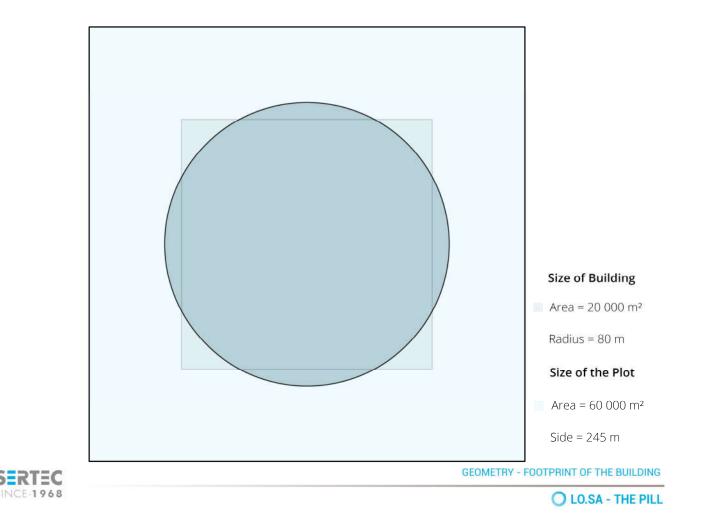
LOSA «The PILL» - Suggestioni progettuali



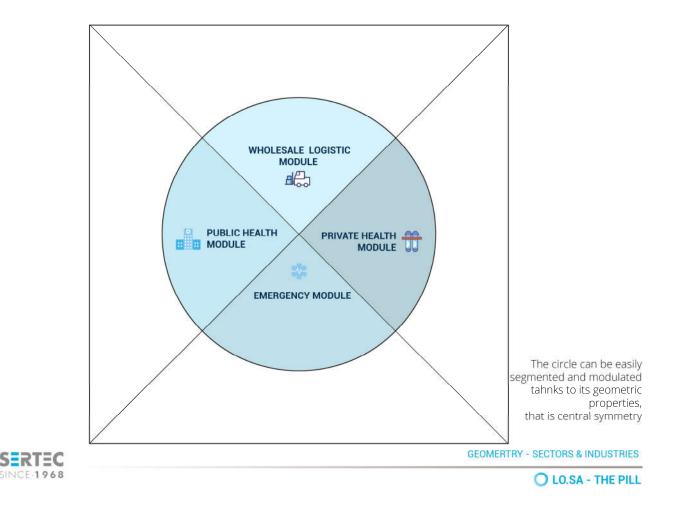




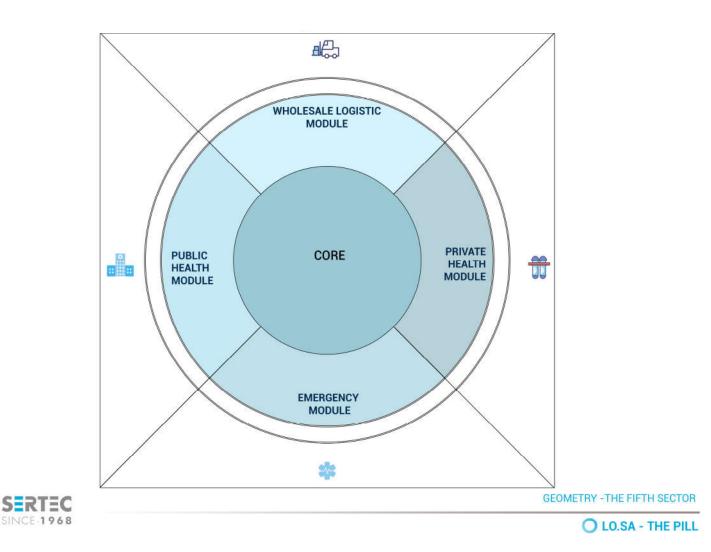






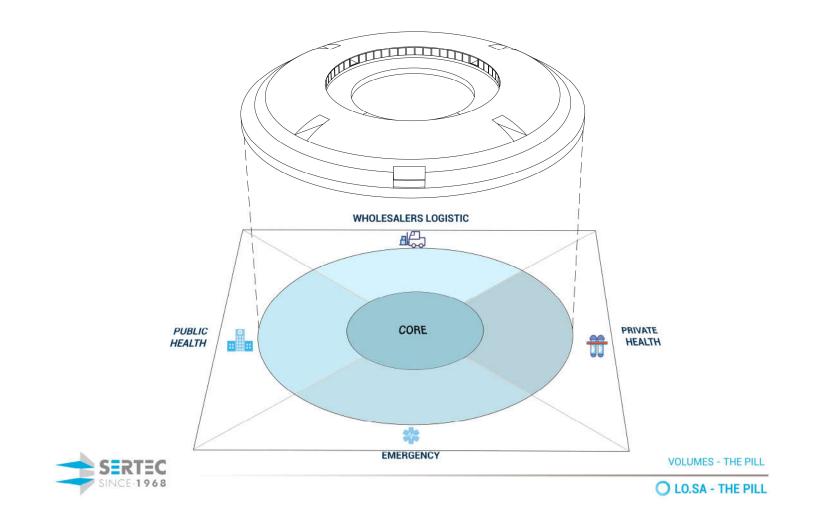




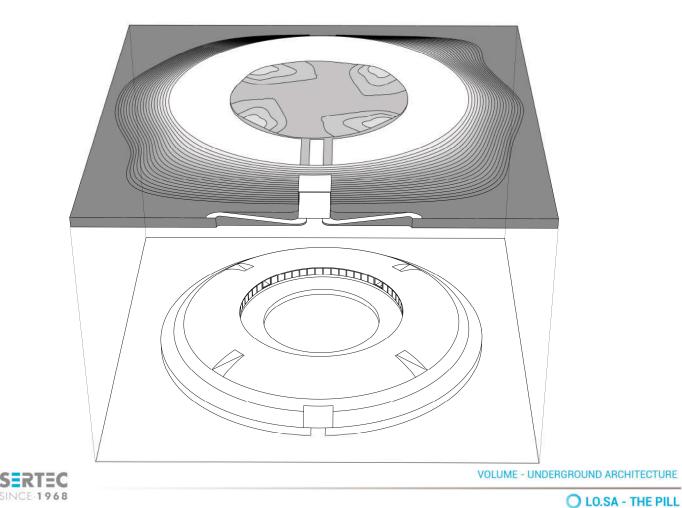


12



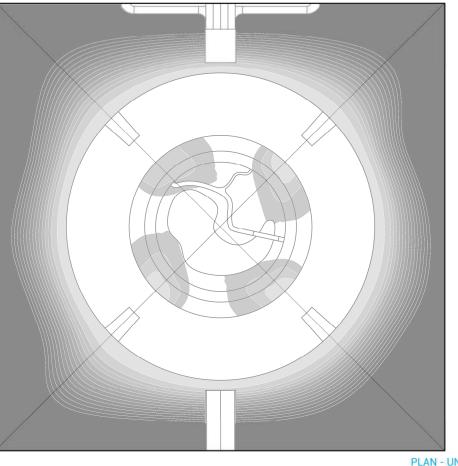








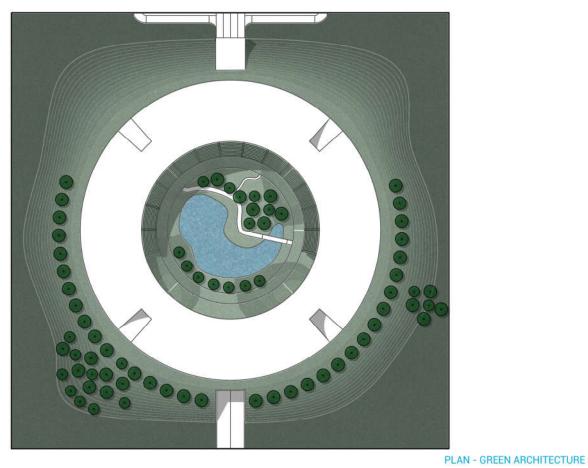




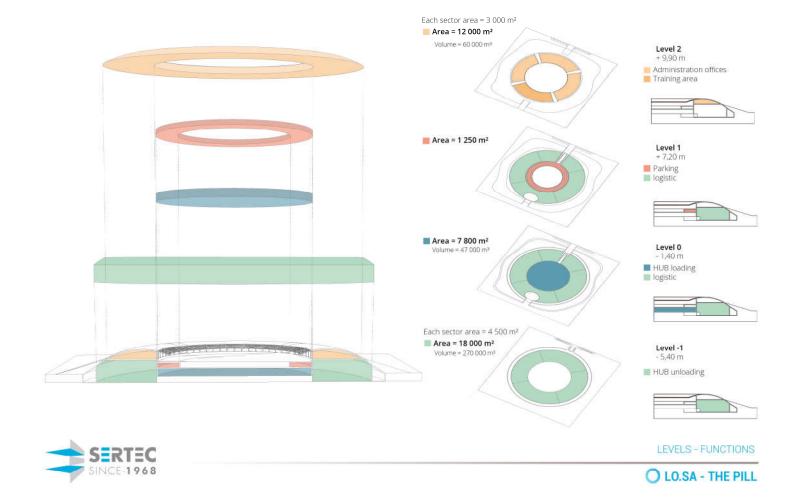


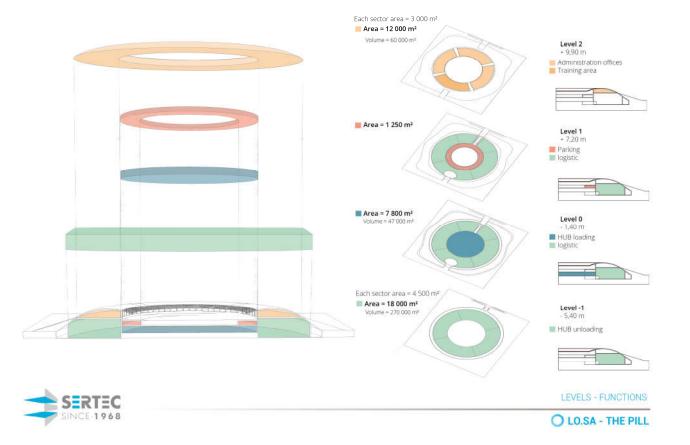
PLAN - UNDERGOUD ARCHITECTURE





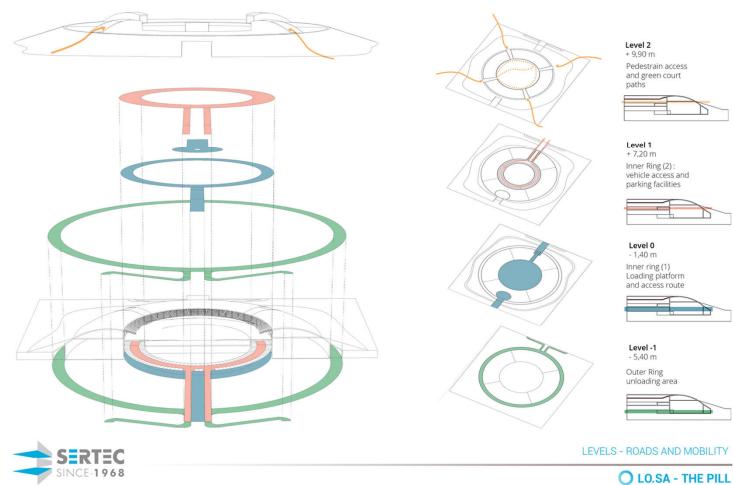


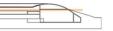




Logelico dela SAute









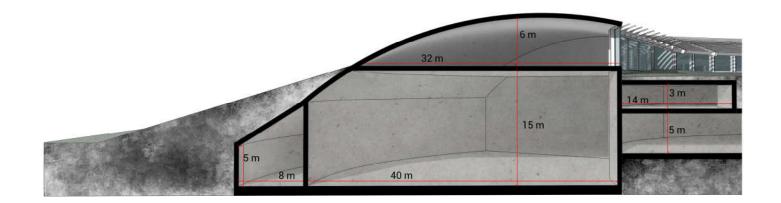




LEVELS - ROADS AND MOBILITY



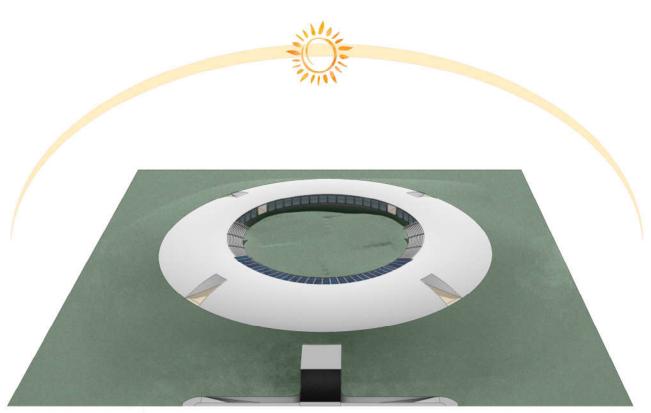






LEVELS - EXEMPLE OF A SECTION





CLEAN ENERGY : SOLAR PANEL GEO-THERMAL PROBES ENERGY EFFICIENCY : CIRCULAR PERIMETER - SMALLER DISPERSION SURFACE SHADOW THANKS TO BRISE-SOLEIL STABLE INDOOR TEMPERATURE 40 000 m2 of green asurface, 1200 trees - 52 500 kg / year of CO2 HIDDEN ROADS,FILERING TO EXHAUST FUMES



SUSTAINABILITY - STRATEGIES















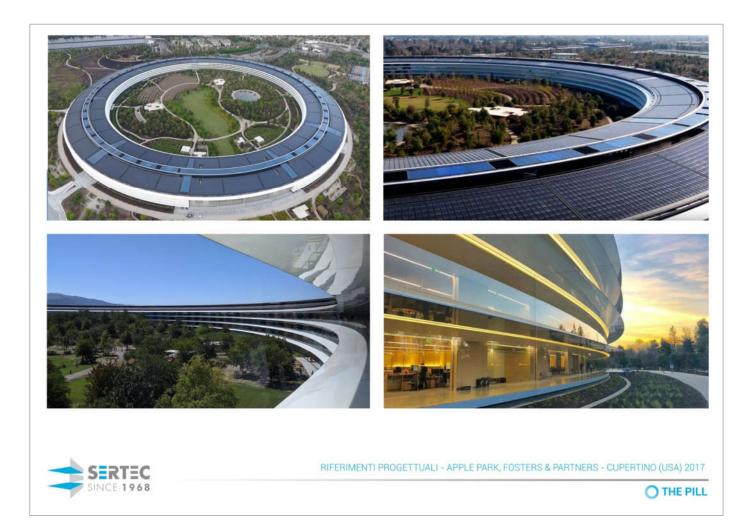






25







Project by



With the contribution of the Turin Chamber of Commerce, Agriculture and Crafts



CAMERA DI COMMERCIO INDUSTRIA ARTIGIANATO E AGRICOLTURA DI TORINO

In cooperation with









27