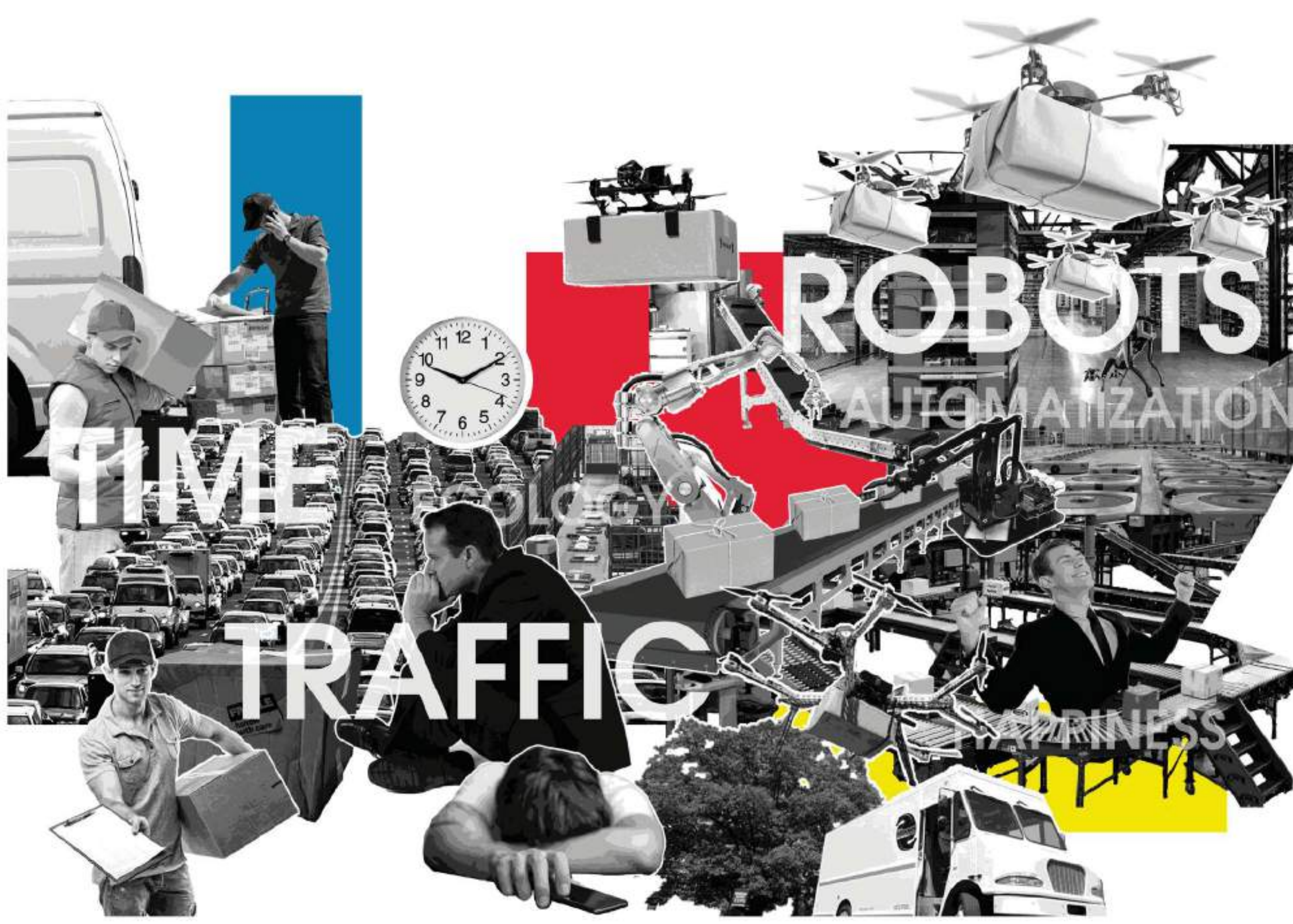TEAM-5
Kazan, Russia

Team leader
Ruslan Mannapov, Russia

Team members
Rezeda Akhtiamova, Russia
Danil Nazarov, Russia
Vladislav Krayushkin, Russia
Artem Sultanov, Russia

INDIGO DPA-X   CAR PARK FUTURES COMPETITION 2022

GIGAHUB

ROBOTS · AUTOMATIZATION
TIME · TECHNOLOGY
TRAFFIC

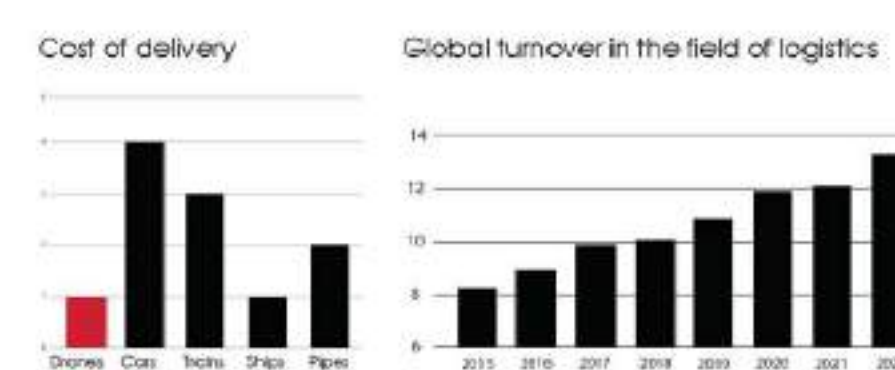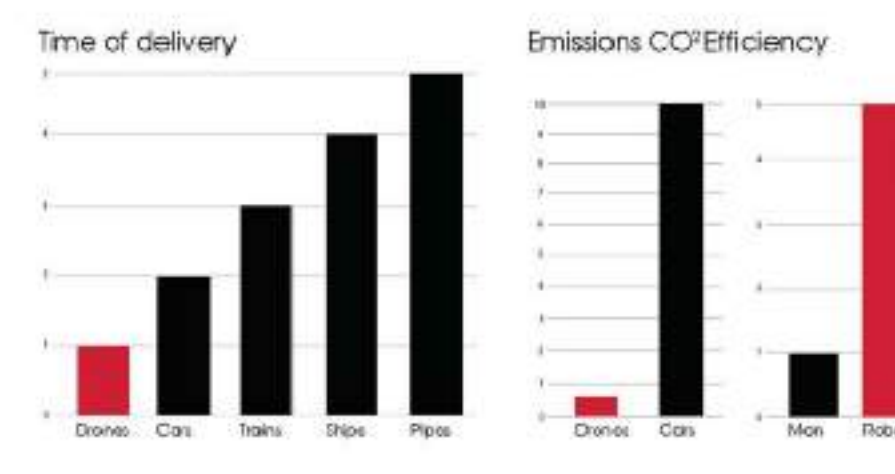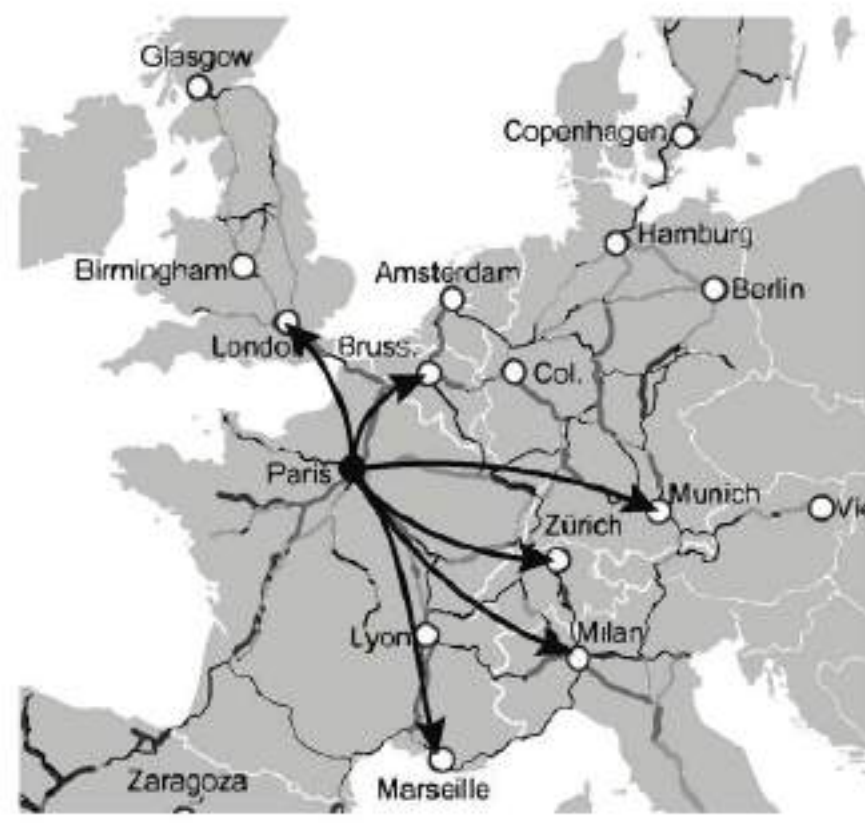## GIGAHUB / EURALILLE LOGISTICS TRANSFORMATION

CONCEPT

Delivery... Have you ever wondered how much time in your life you spend waiting for a courier or heading to a pickup point? How long in your life do you wait until the product you need reaches you? A frightening amount of hours you could spend on self-development and a better life.
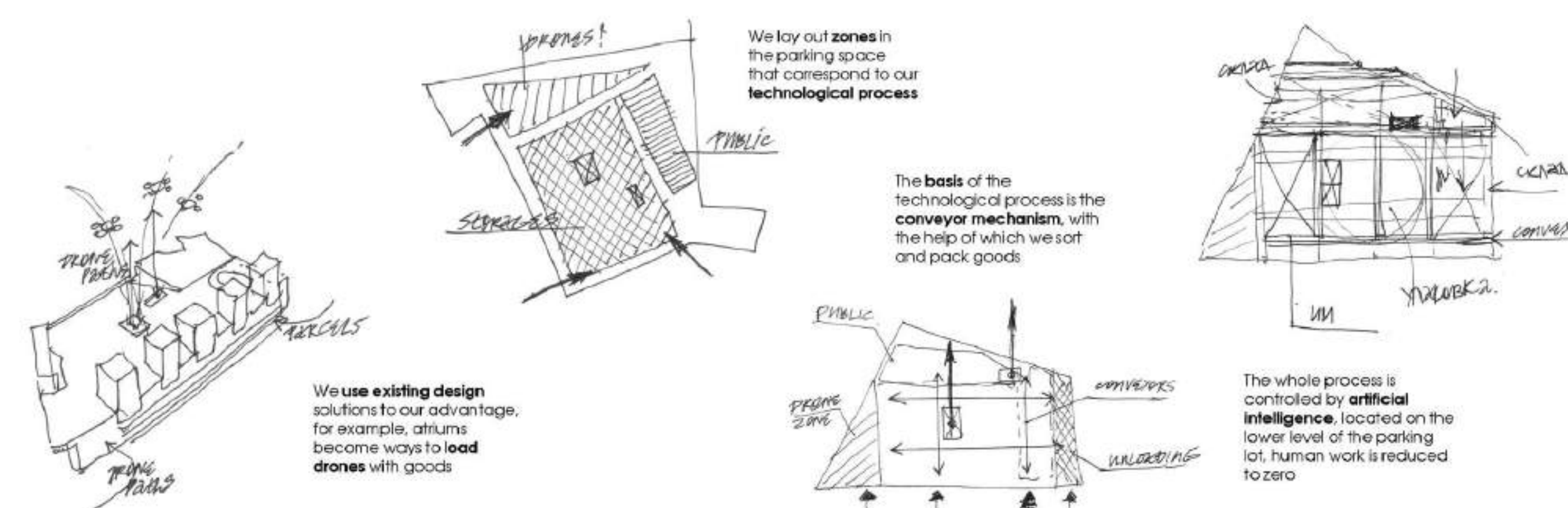
Modern technologies make it possible to speed up the delivery process at times **using automation and drones.** This project proposes the use of underground parking as a space for central warehouses of various distances. Being located in Paris, such a warehouse covers the needs of not only the nearest territories, but can also be used for long-distance shipments.

For a long time, humanity has been busy with the question of how to accelerate its development. The advent of railways, and then cars, led to the acceleration of the development of states and the whole world as a whole. Now we are entering a **new era** where we can use technology to make our lives more efficient.

In order for a person to **be happy**, he needs to devote more time to himself and his loved ones.
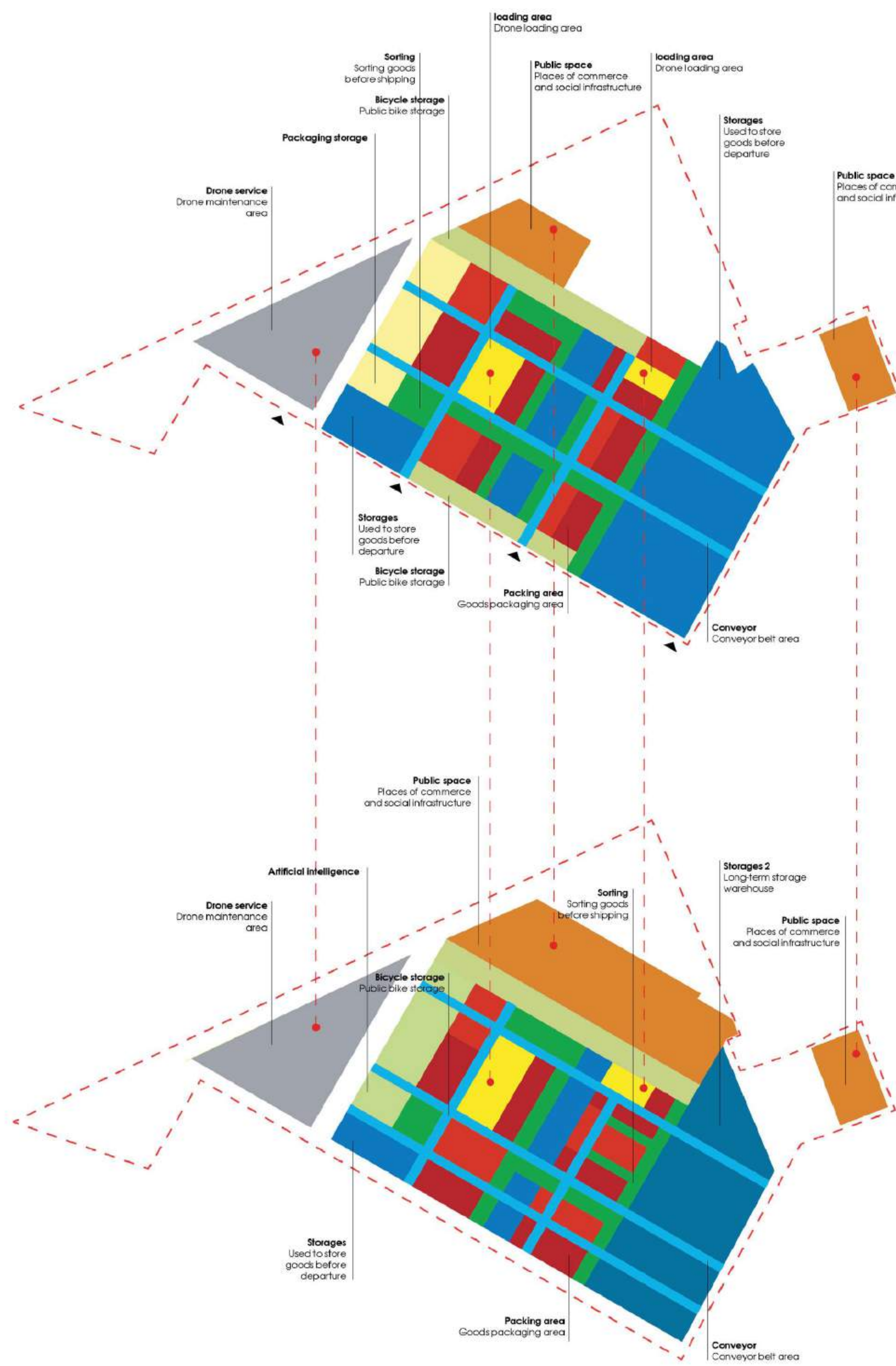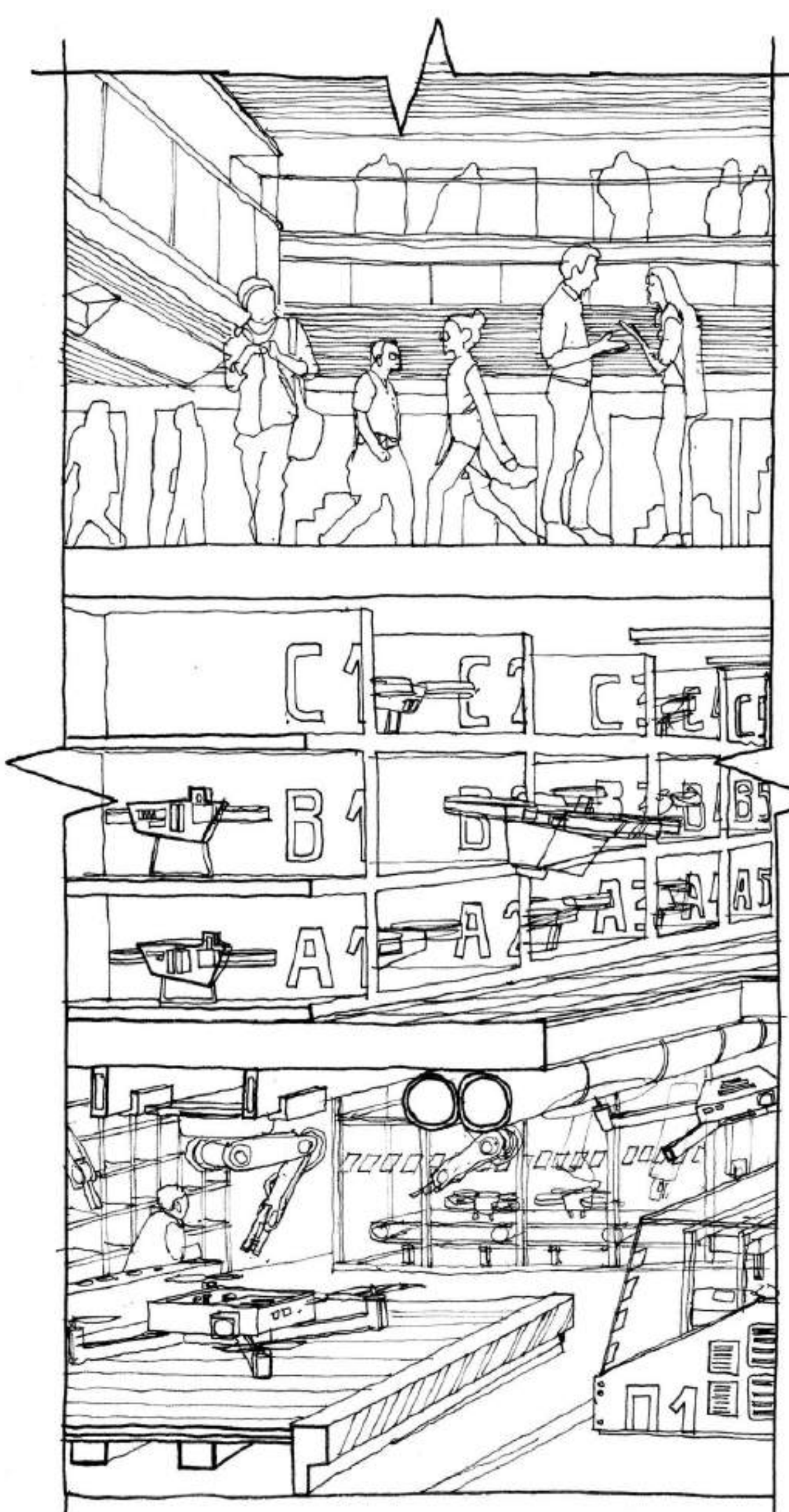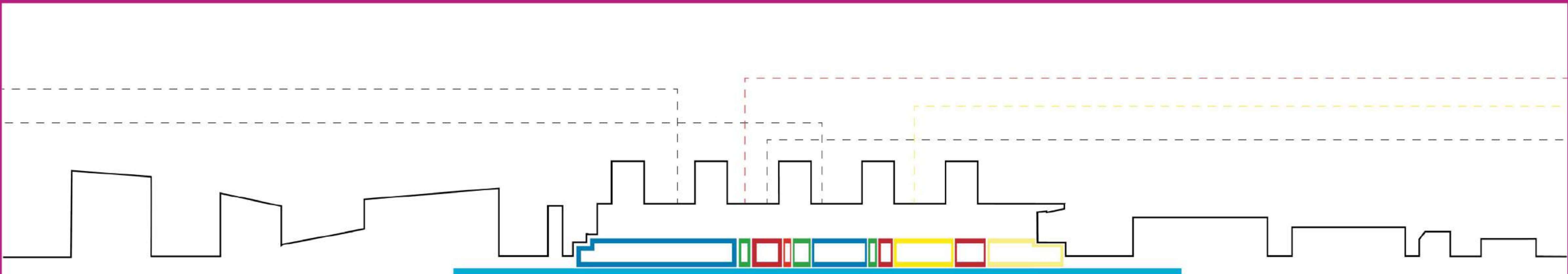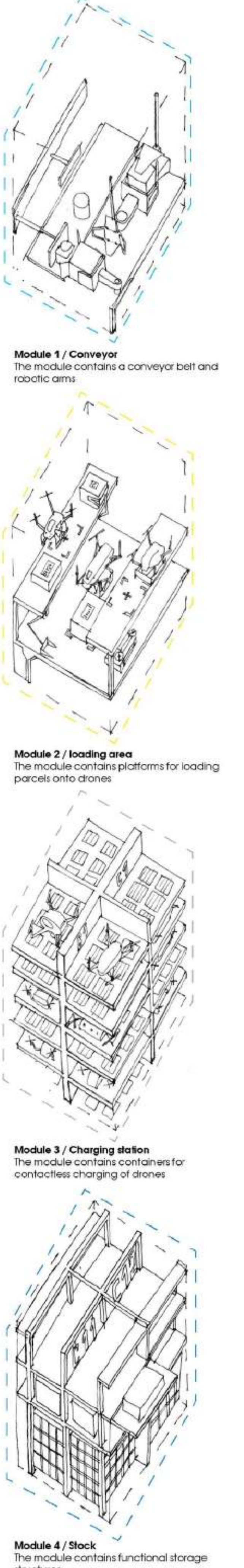
ARCHITECTURE STRATEGY

We lay out **zones** in the parking space that correspond to our **technological process.**

The **basis** of the technological process is the **conveyor mechanism,** with the help of which we sort and pack goods.

We use existing design solutions to our advantage, for example, atriums, become ways to **load drones** with goods.

The whole process is controlled by **artificial intelligence,** located on the lower level of the parking lot, human work is reduced to zero.

TEAM-5 (Reference: 3a8eccf36a / Candidacy N°: 368)

PROGRAM DIAGRAM

Drone service — Drone maintenance area
Packaging storage
Sorting — Sorting goods before shipping
loading area — Drone loading area
Public space — Places of commerce and social infrastructure
Bicycle storage — Public bike storage
loading area — Drone loading area
Storages — Used to store goods before departure
Public space — Places of commerce and social infrastructure
Storages — Used to store goods before departure
Bicycle storage — Public bike storage
Packing area — Goods packaging area
Conveyor — Conveyor belt area

Public space — Places of commerce and social infrastructure
Artificial intelligence
Drone service — Drone maintenance area
Sorting — Sorting goods before shipping
Storages 2 — Long-term storage warehouse
Public space — Places of commerce and social infrastructure
Bicycle storage — Public bike storage
Storages — Used to store goods before departure
Packing area — Goods packaging area
Conveyor — Conveyor belt area

MODULARITY

Module 1 / Conveyor
The module contains a conveyor belt and robotic arms.

Module 2 / loading area
The module contains platforms for loading parcels onto drones.

Module 3 / Charging station
The module contains core containers for contactless charging of drones.

Module 4 / Stock
The module contains functional storage structures.

Section fragment 1, M1:30
The fragment shows drone maintenance areas

Section fragment 2, M1:30
The fragment shows the areas for loading goods onto drones and artificial intelligence servers

Section fragment 3, M1:30
The fragment shows parcel sorting zones

Section fragment 1, M1:30
The section shows the areas for unloading parcels and their storage
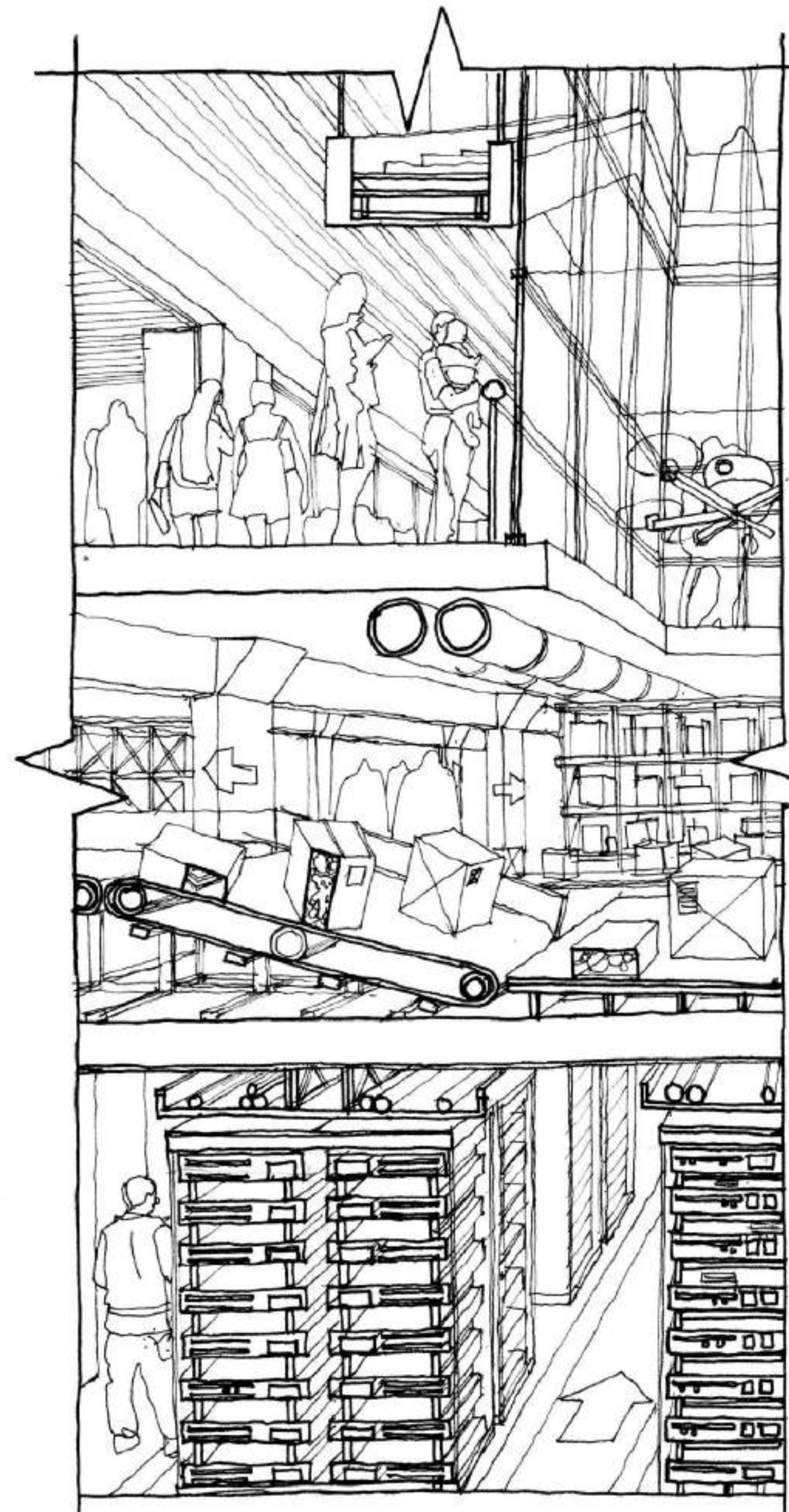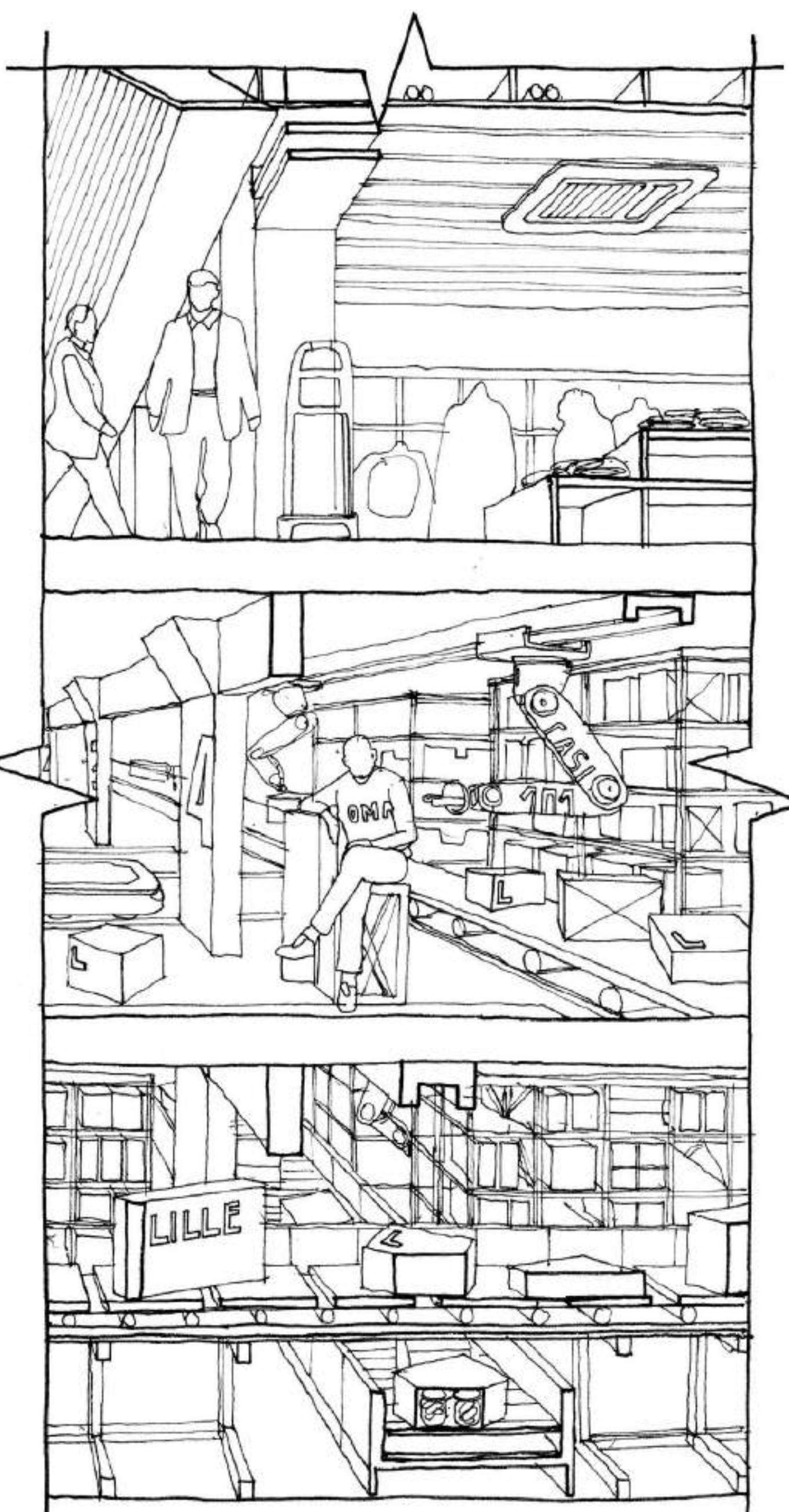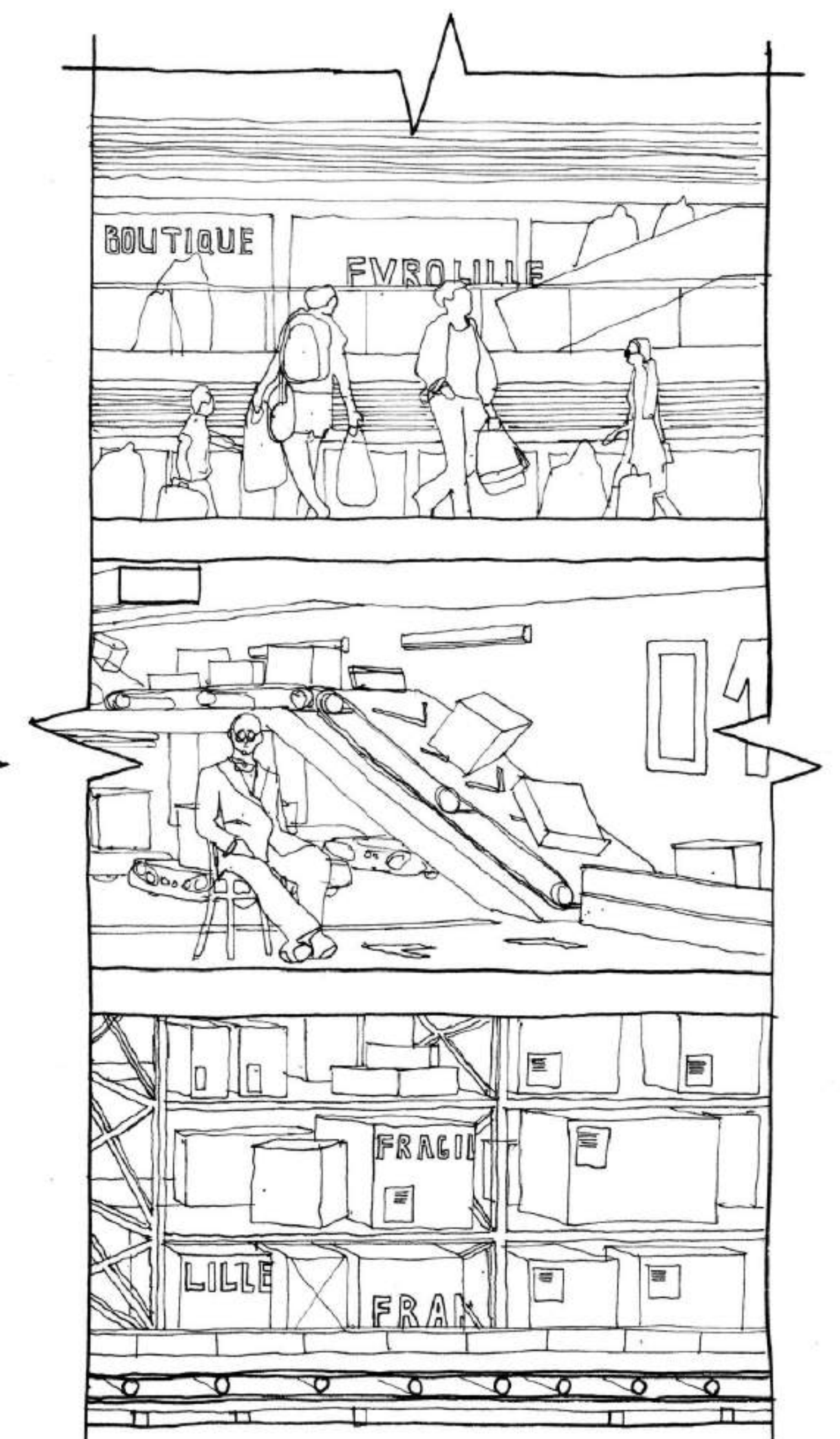
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