Università degli Studi di Napoli Federico II
DiARC
DBE International Master of Science Design for the Built Environment
PROFESSORS
Erminia ATTAIANESE
Alessio BOTTA
Sergio RUSSO ERMOLLI
TUTORS
Morena BARILÀ
Daniele DE PASCALE
Sayna ROTBEI

ATELIER OF INTERACTION DESIGN

Collaborative environment

AA_2023/2024

Mahsa Alipour anvarian

FINAL PRESENTATION - JUNE 25TH 2024

HISTORY

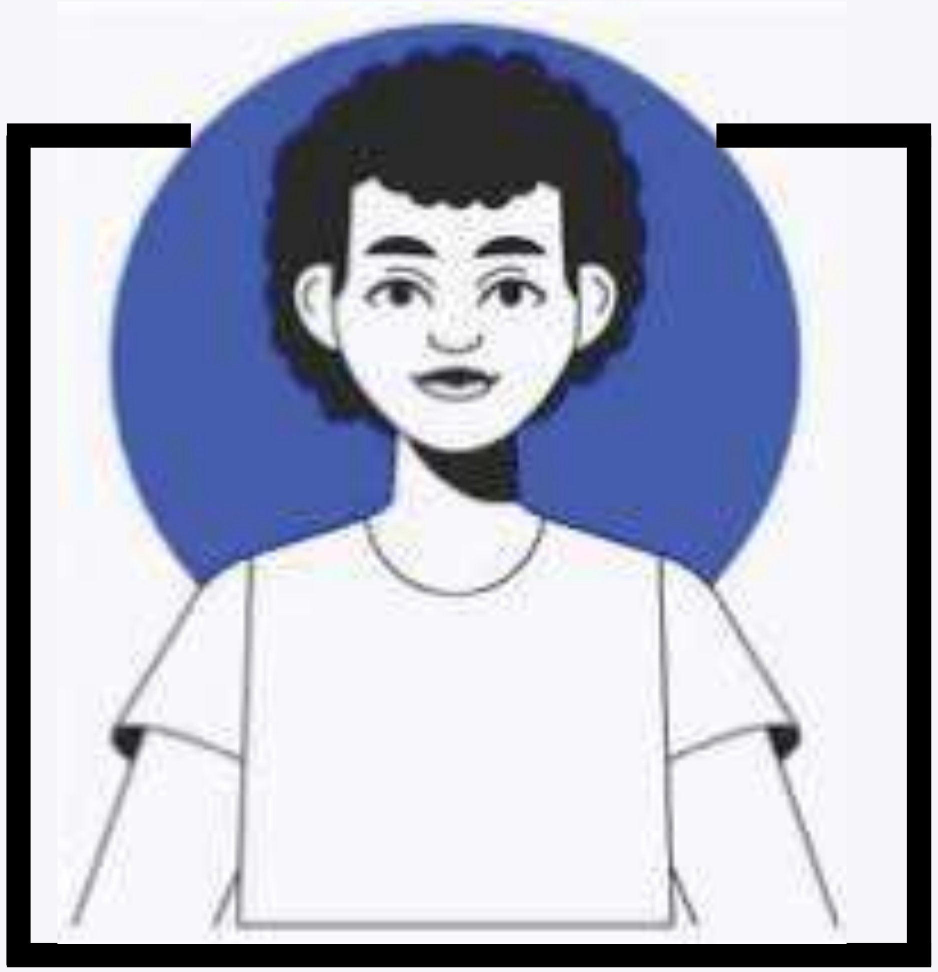
The National Museum of Capodimon-
te is a museum in Naples , located
inside the palace of the same name ,
in the town of Capodimonte : it
houses galleries of ancient art, one of
contemporary art and a historic
apartment.

It was officially inaugurated in 1957.

OUR AIM

Our primary objective in this series is to initially create a dynamic, collaborative, and innovative educational space for students, enabling them to comprehend the essence of a new collaborative and educational environment. Furthermore, through the design of a new space at the heart of this esteemed and historic collection, Capodimonte will become more visible and recognized. Additionally, a fusion of modern space and contemporary style with a completely historical ambiance will be witnessed."

Persona Research



Mark Gugelielmo

Demographic

Age : 32

Gender: Male

Job: Working professional

Family: Single

Limitations

Limited time due to work commit ments,prefer structured learning environments

Capabilities

Strong leadership skills ,experienced in project managements

Interests

Business ,Leadership,pro fessional development

Needs

Flexible learning spaces ,ne working opportunities with peers

Chiara Romano

Demographic

Age : 28

Gender: feMale

Job: student

Family: Married

Limitations

Limited financial resoarces,occasional anxiety in large groups

Capabilities

Tech-savy,creative, good communica- tion skills

Interests

Art,Technology, social media

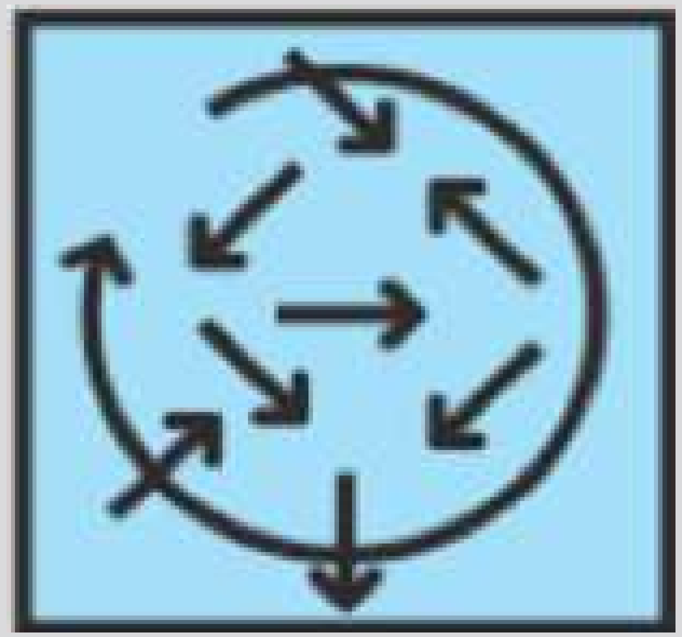
Needs

Quiet spaces for focuse study,access to digital tools.collaborative area for group works

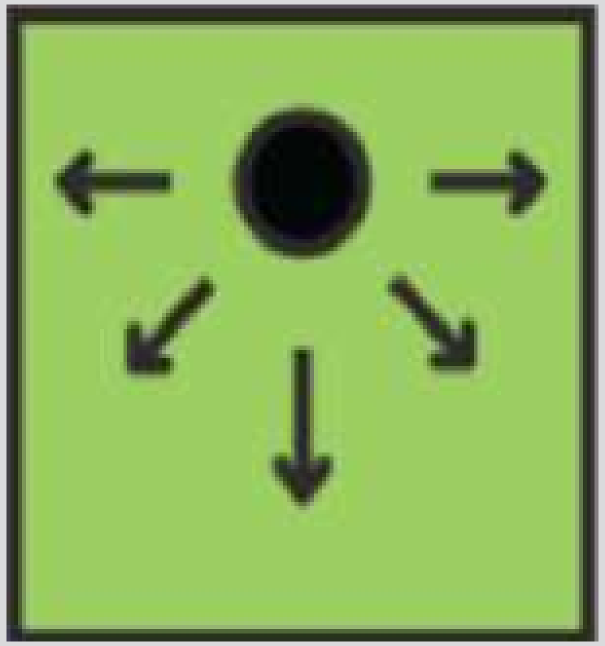
Selective learning environment methods

CAVE

LABORATORY



WATERING HOLE



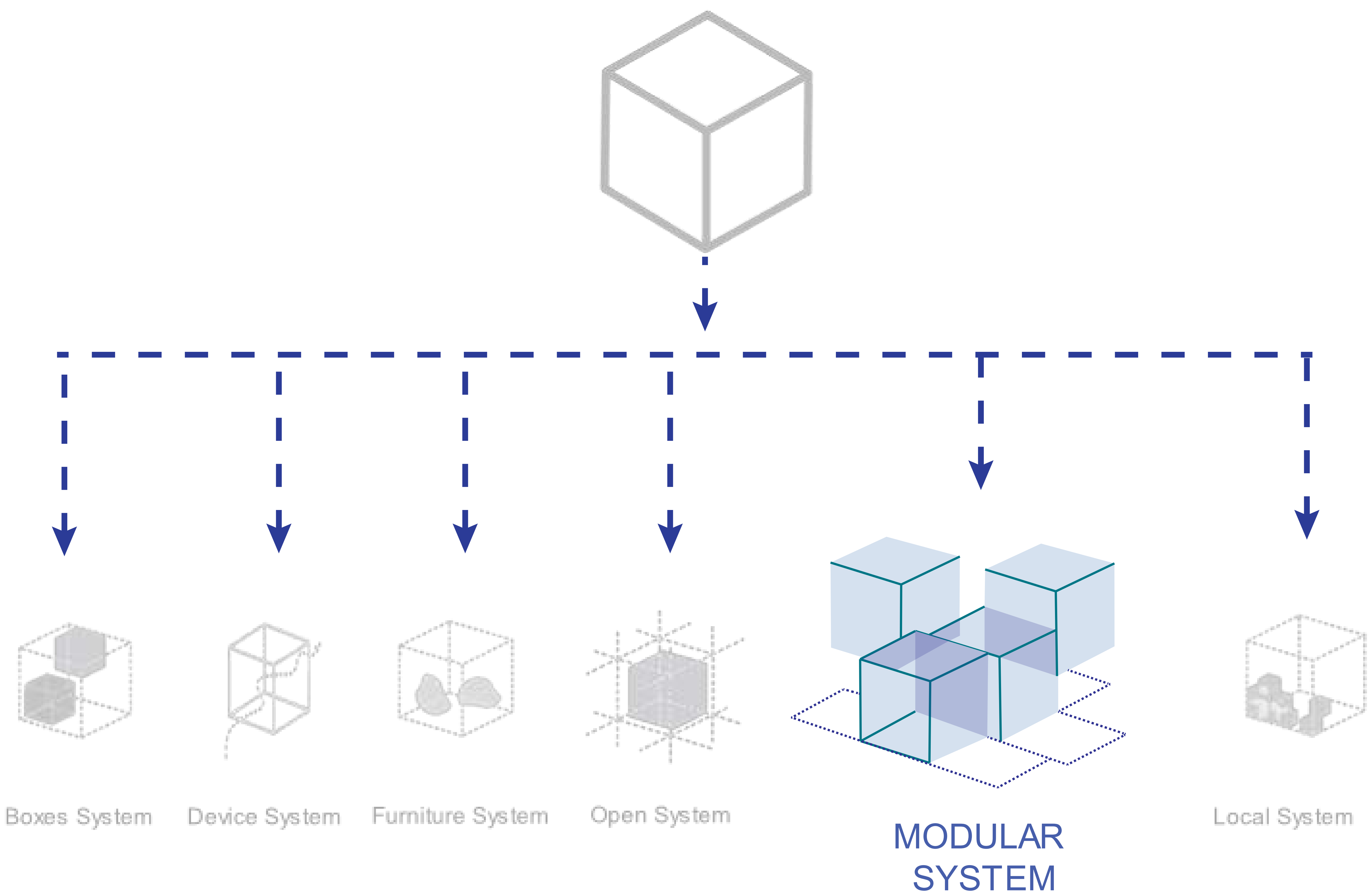
SHOW-OFF

Which kind of learning

Space suitable for our

methods ?

Learning methods

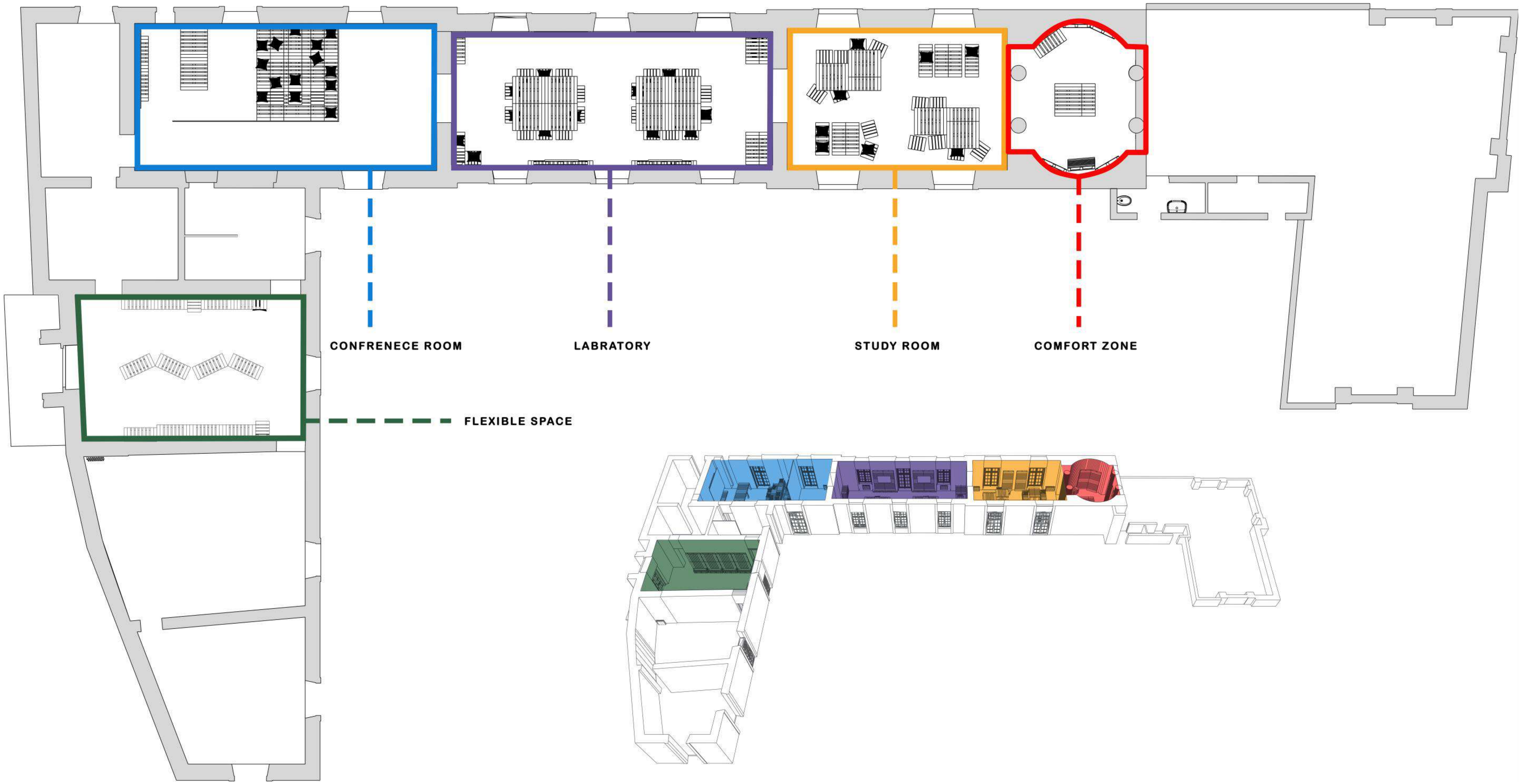


Easy to update and adopt to change

Allow for collaboration

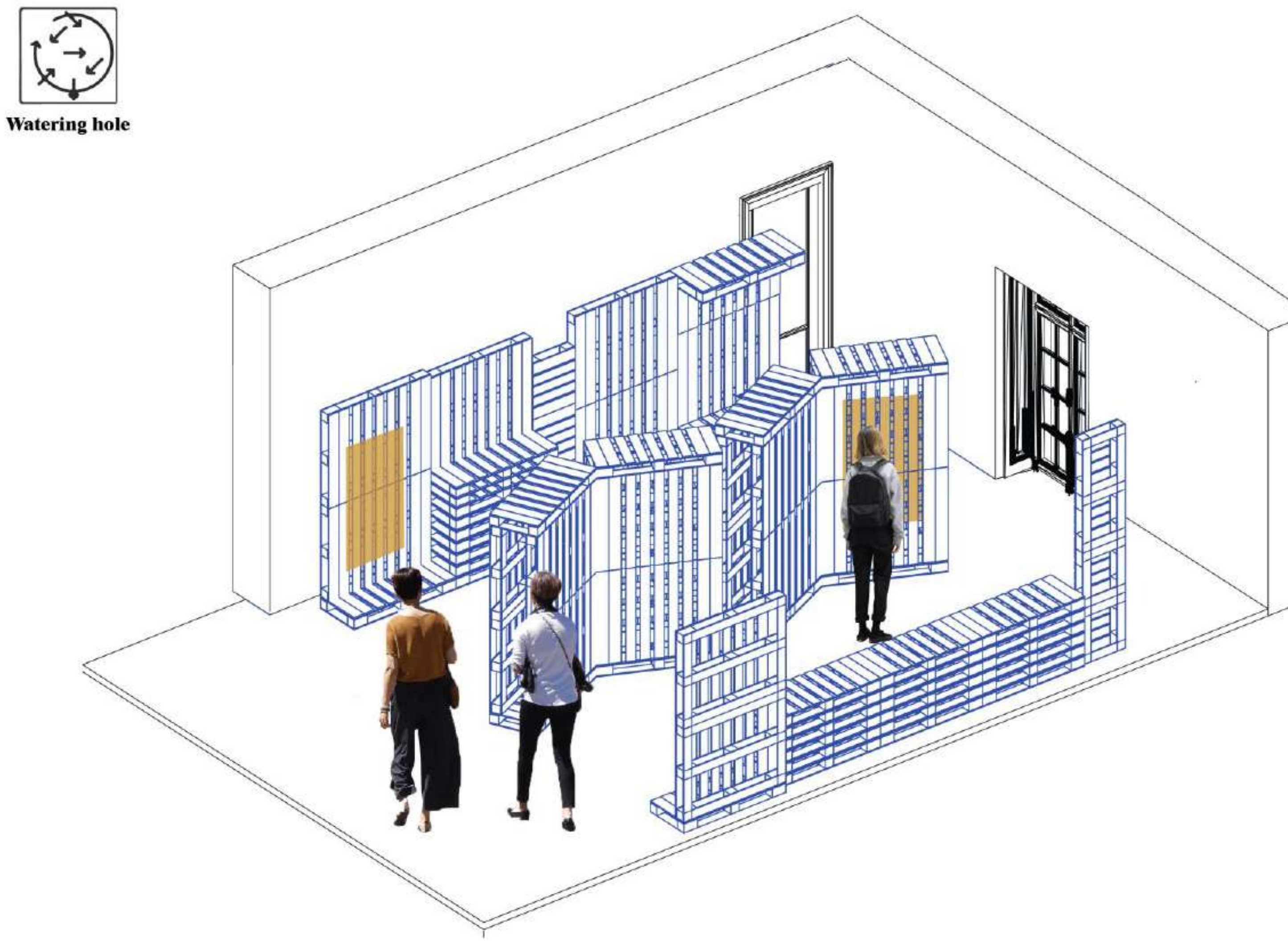
Using as different furniture (desk,chair,board)

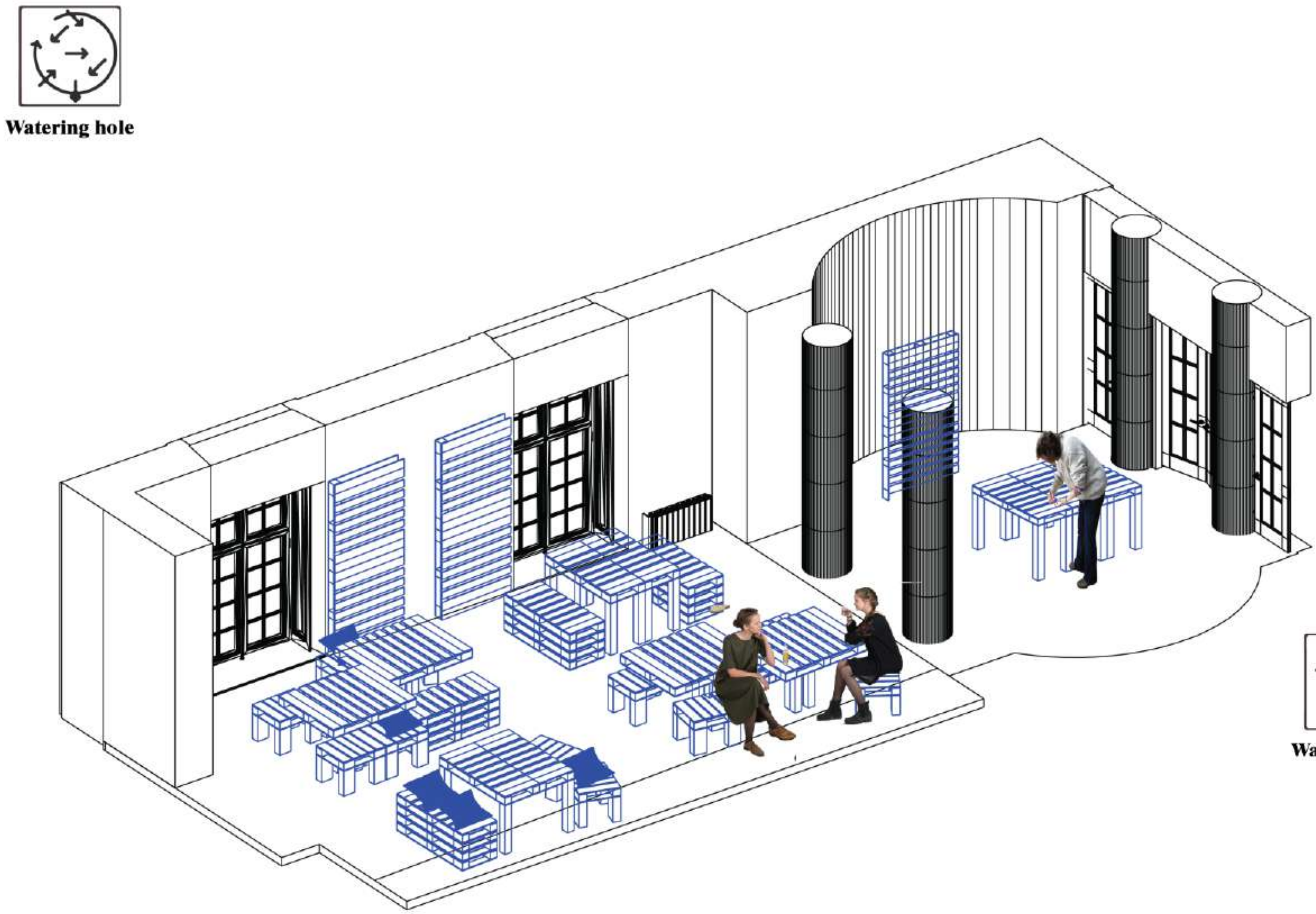
Space zoning

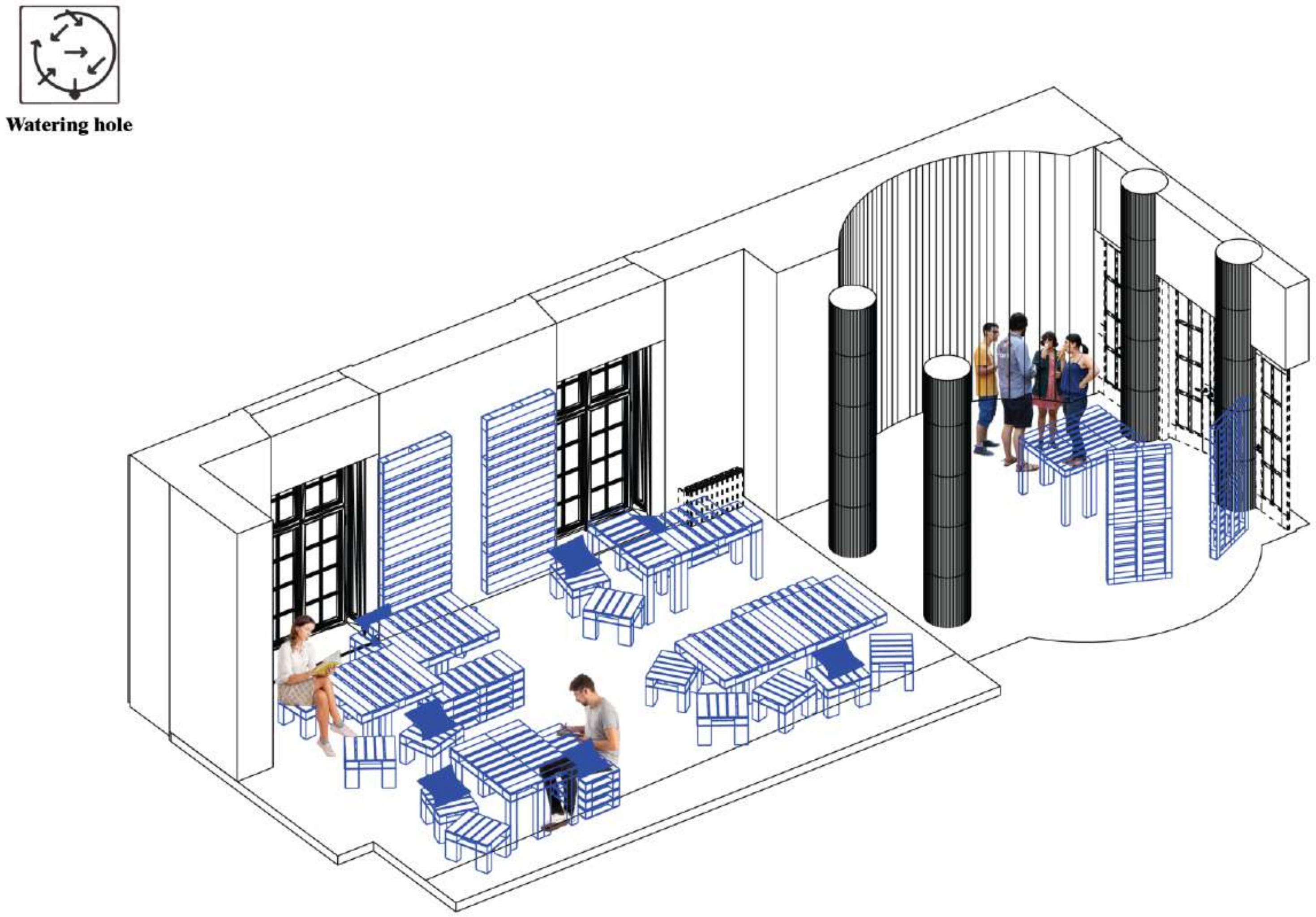


Alternatives

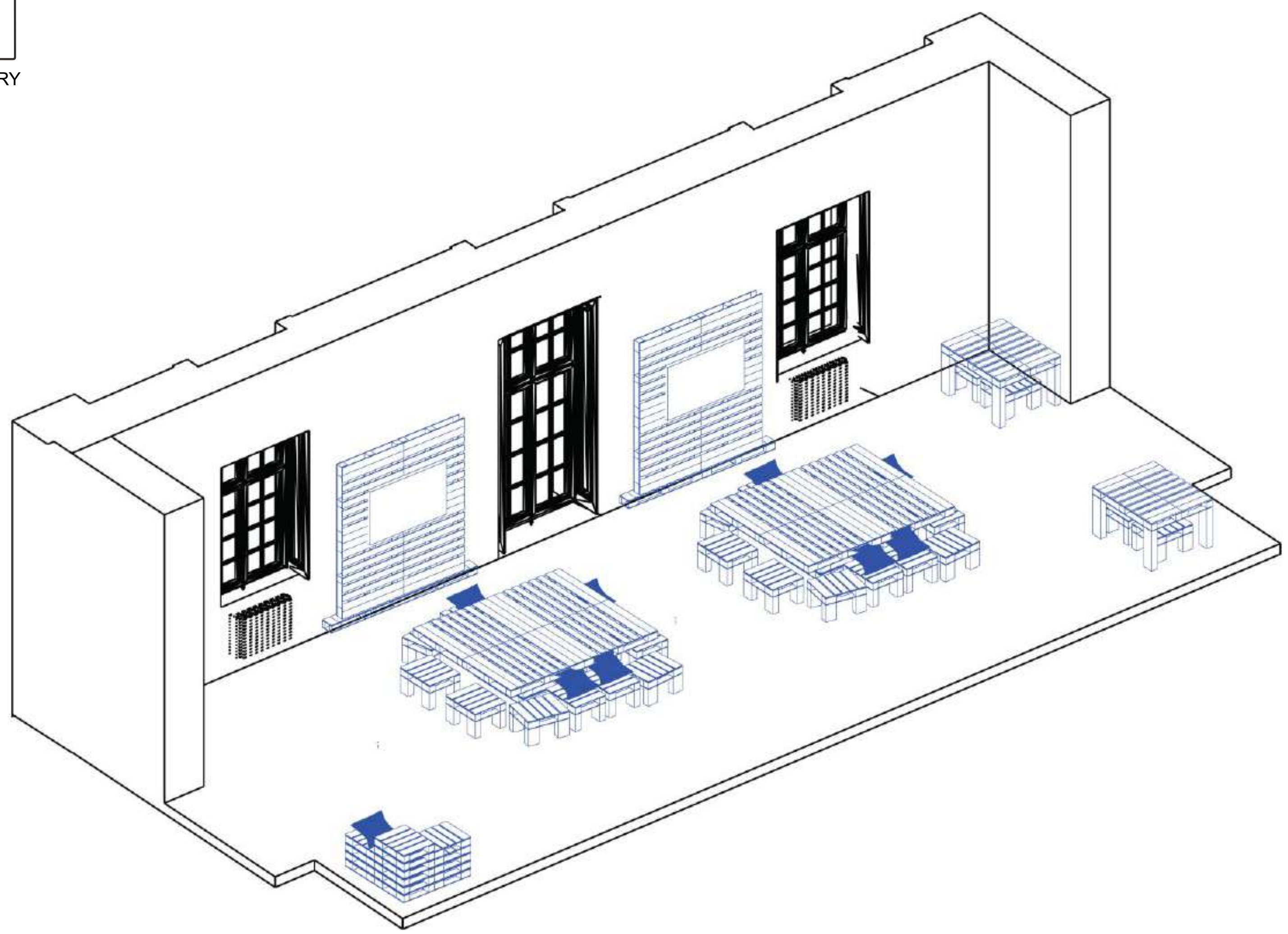

Watering hole


Watering hole

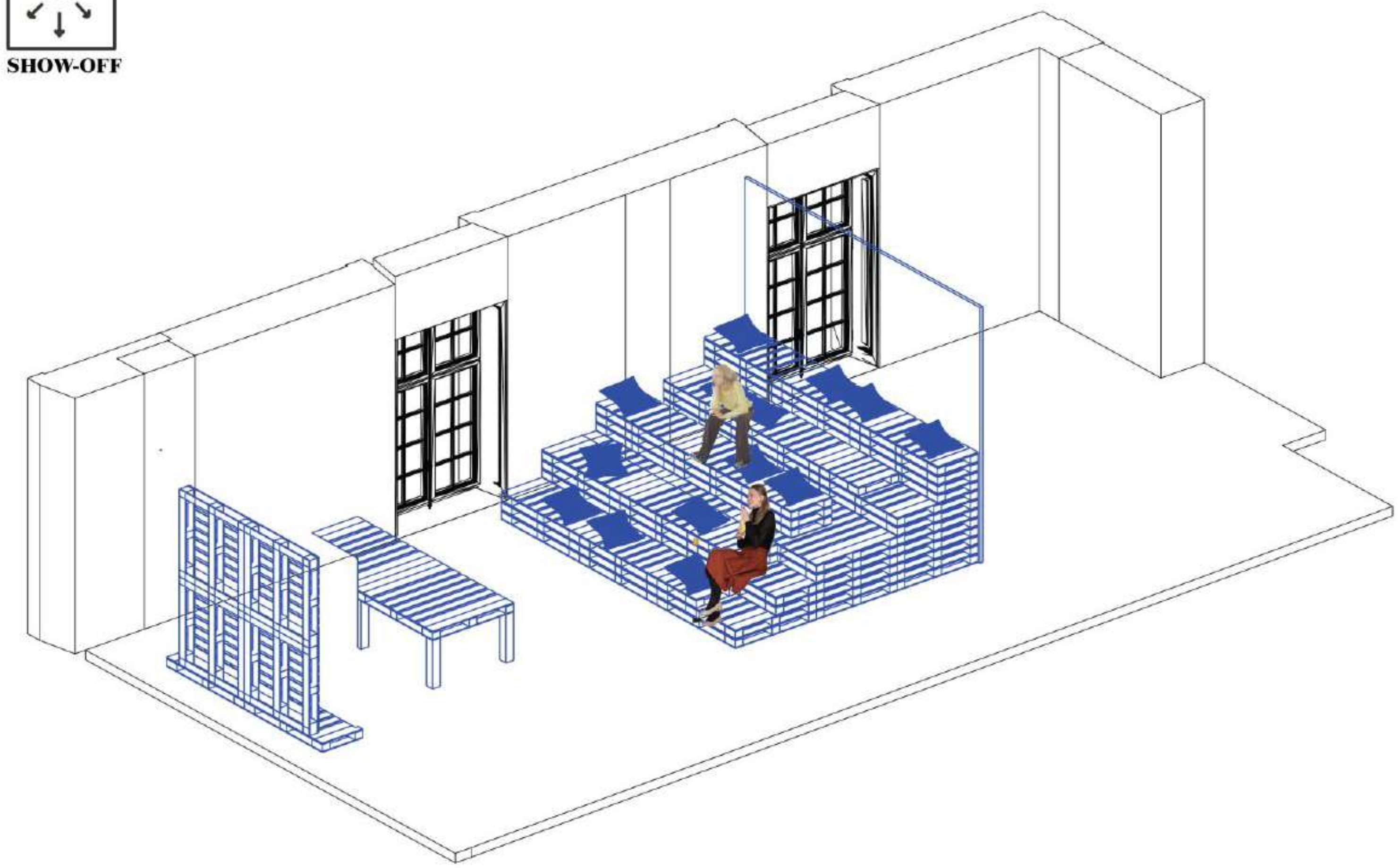

Watering hole


Watering hole

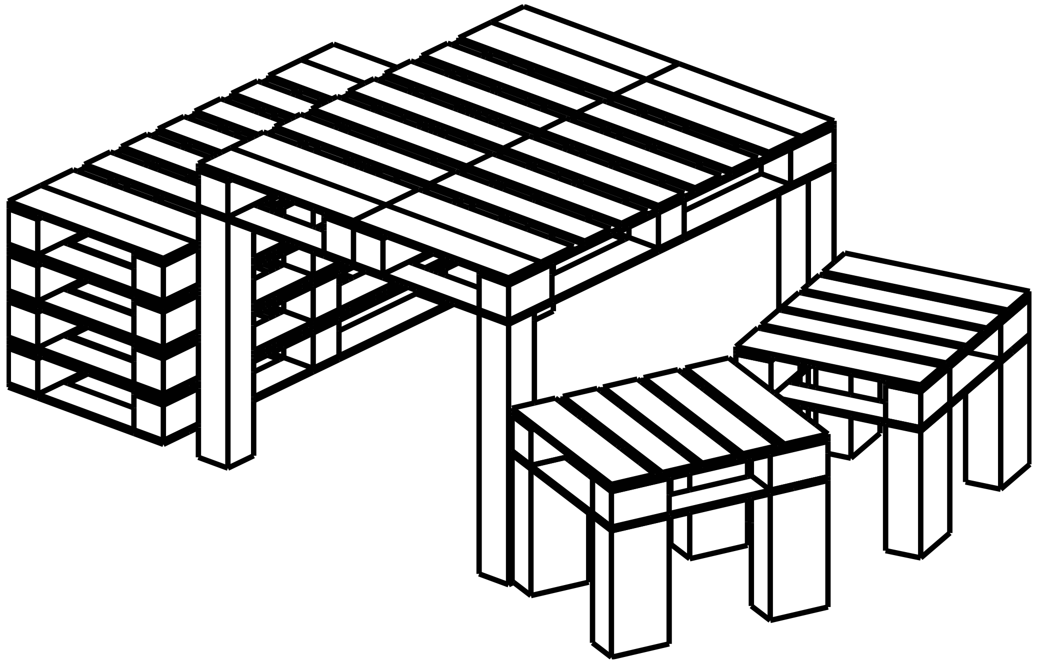
LABORATORY



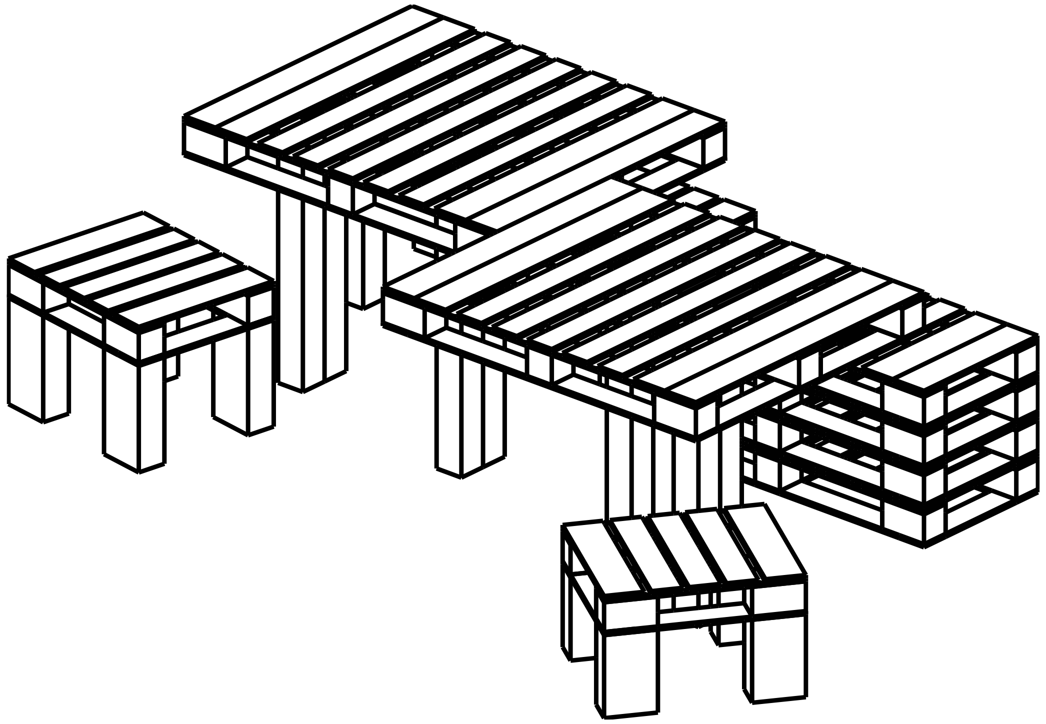
SHOW-OFF

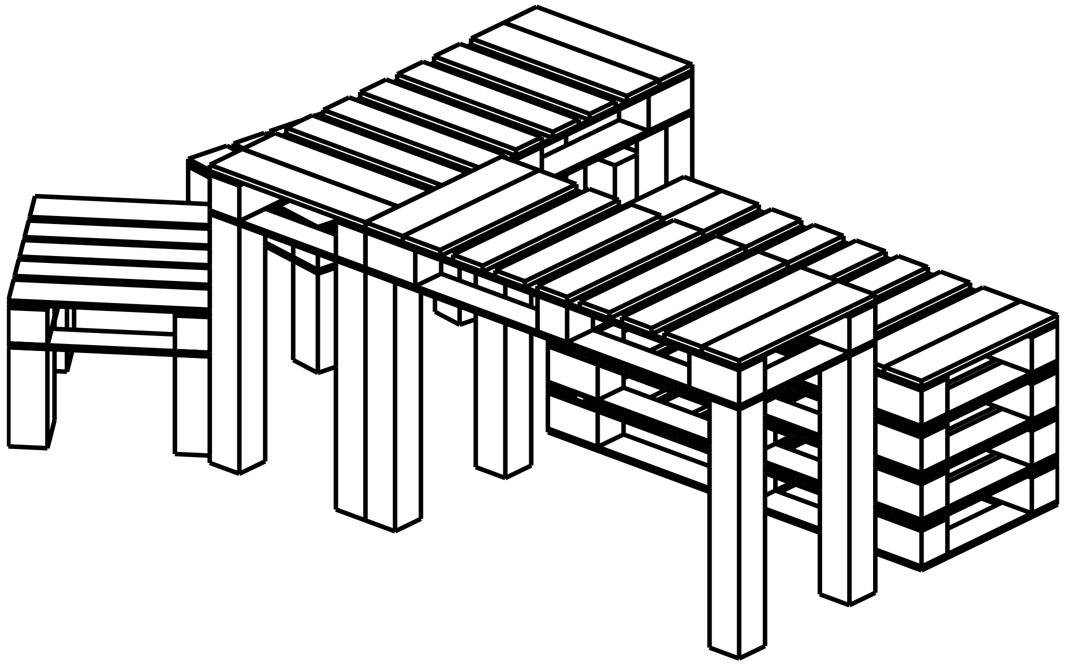


Pallet configs



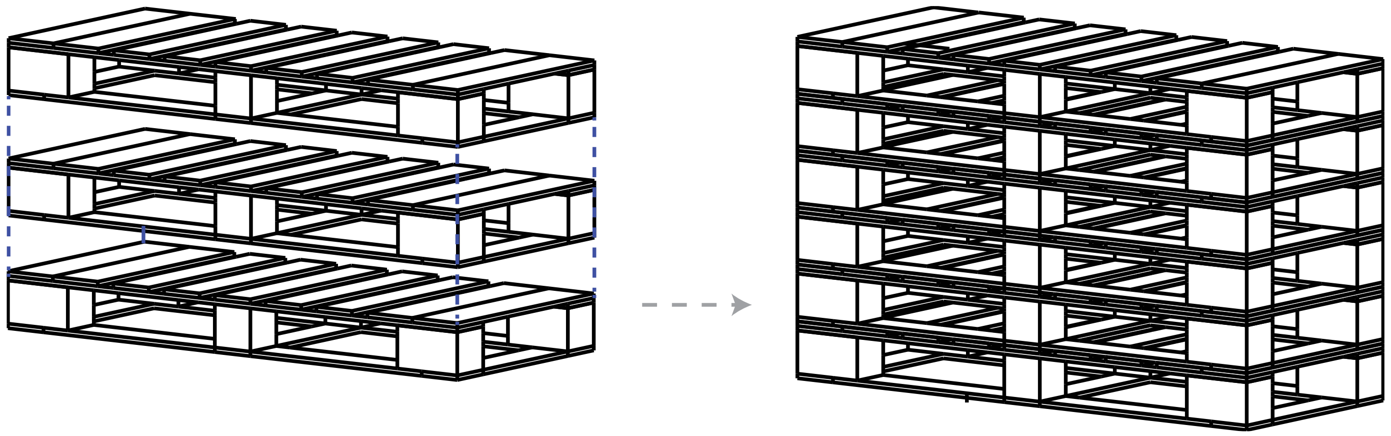
Individual/ Group study



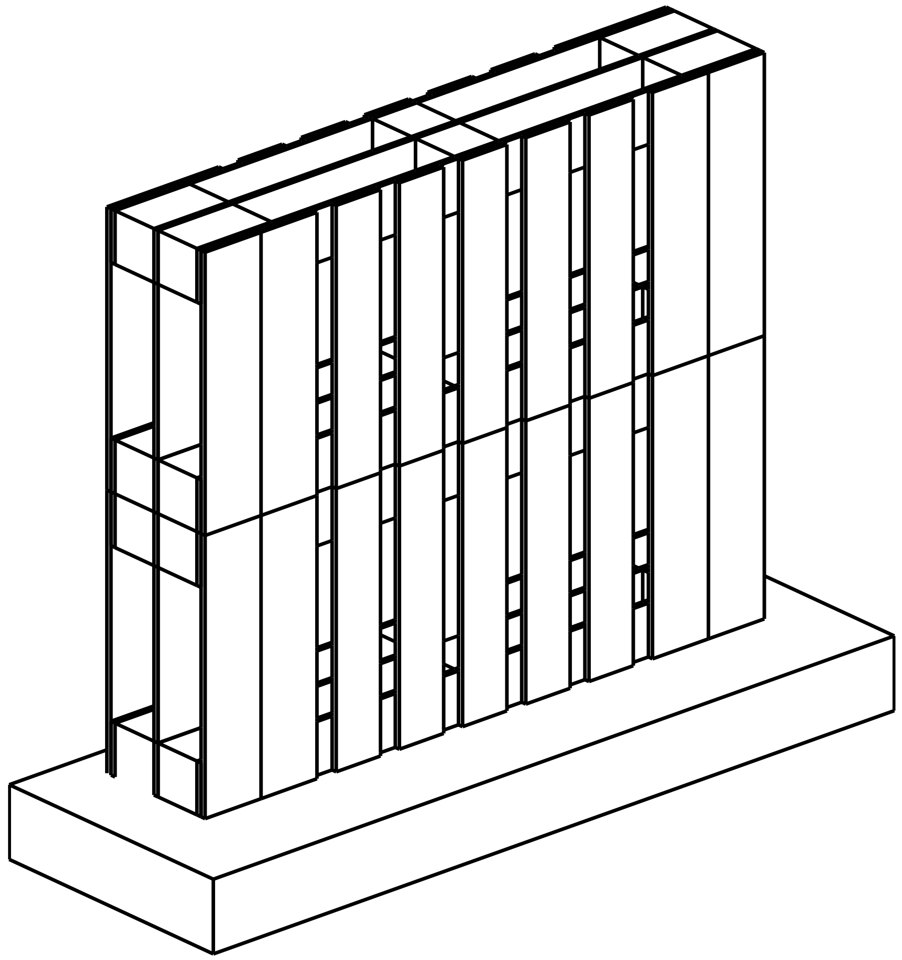


Group works

Pallet configs



Use as stand



Use as Board

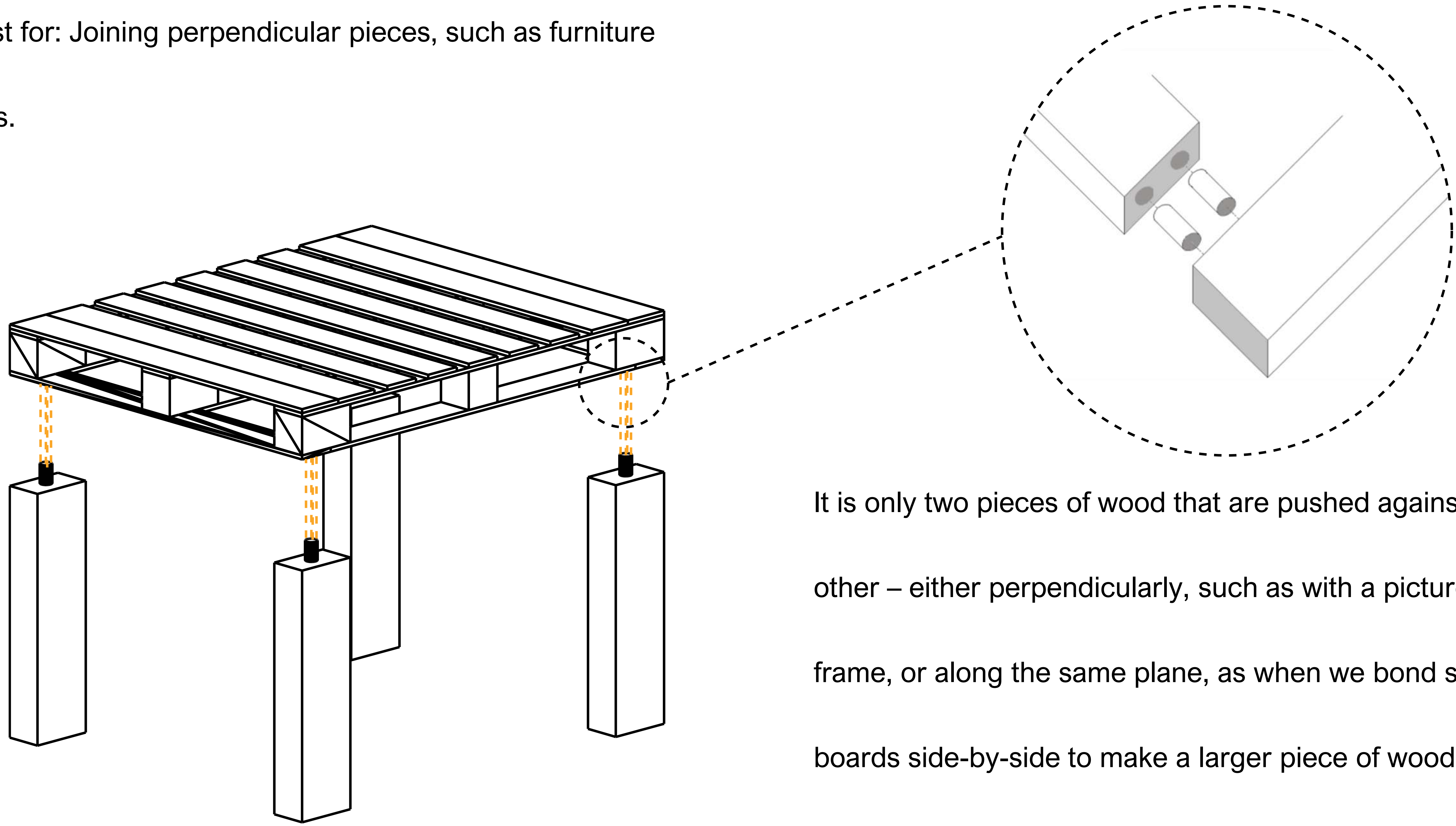
Installation

Solutions

Butt Wood Joints

Best for: Joining perpendicular pieces, such as furniture

legs.



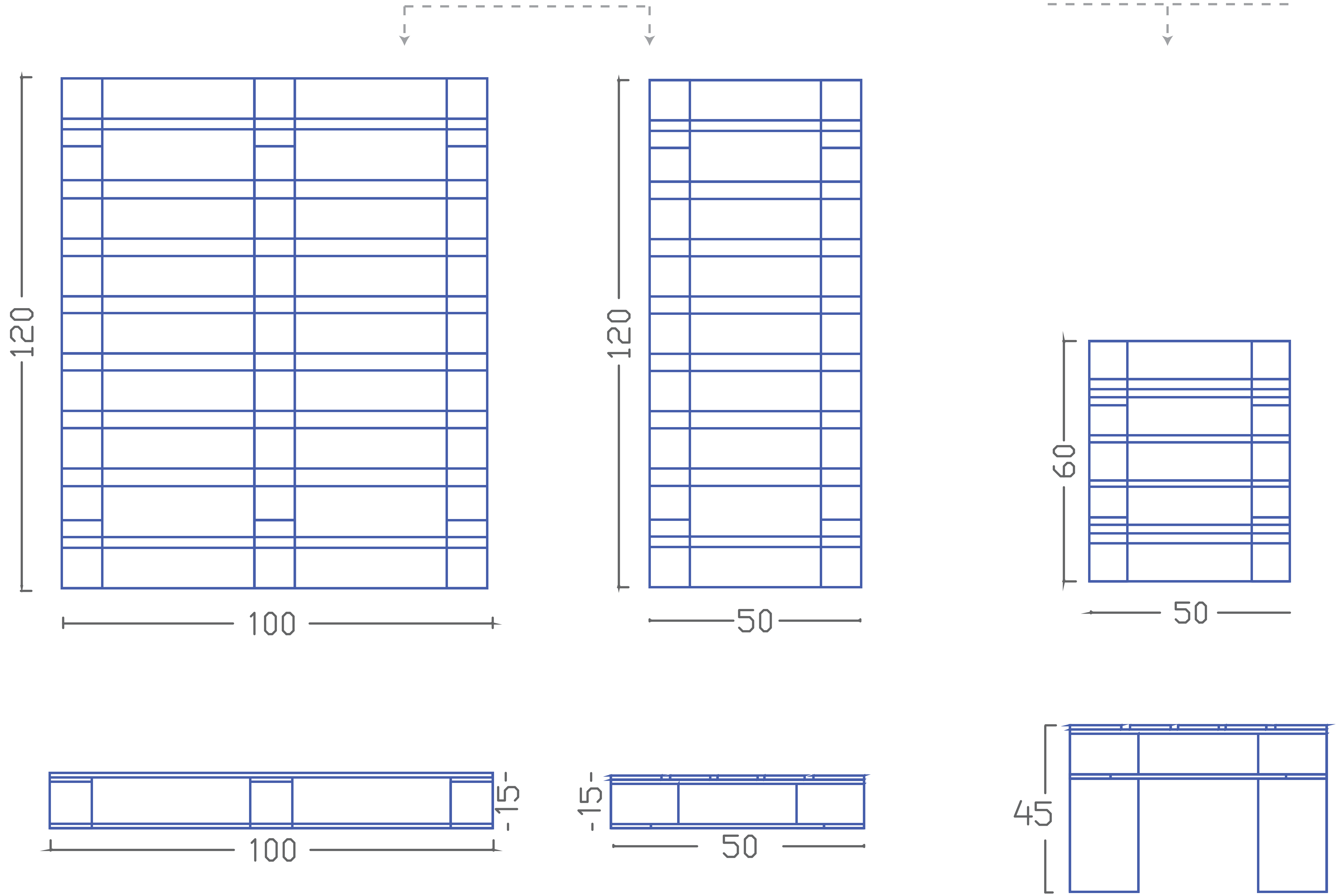
It is only two pieces of wood that are pushed against each other – either perpendicularly, such as with a picture frame, or along the same plane, as when we bond several boards side-by-side to make a larger piece of wood.

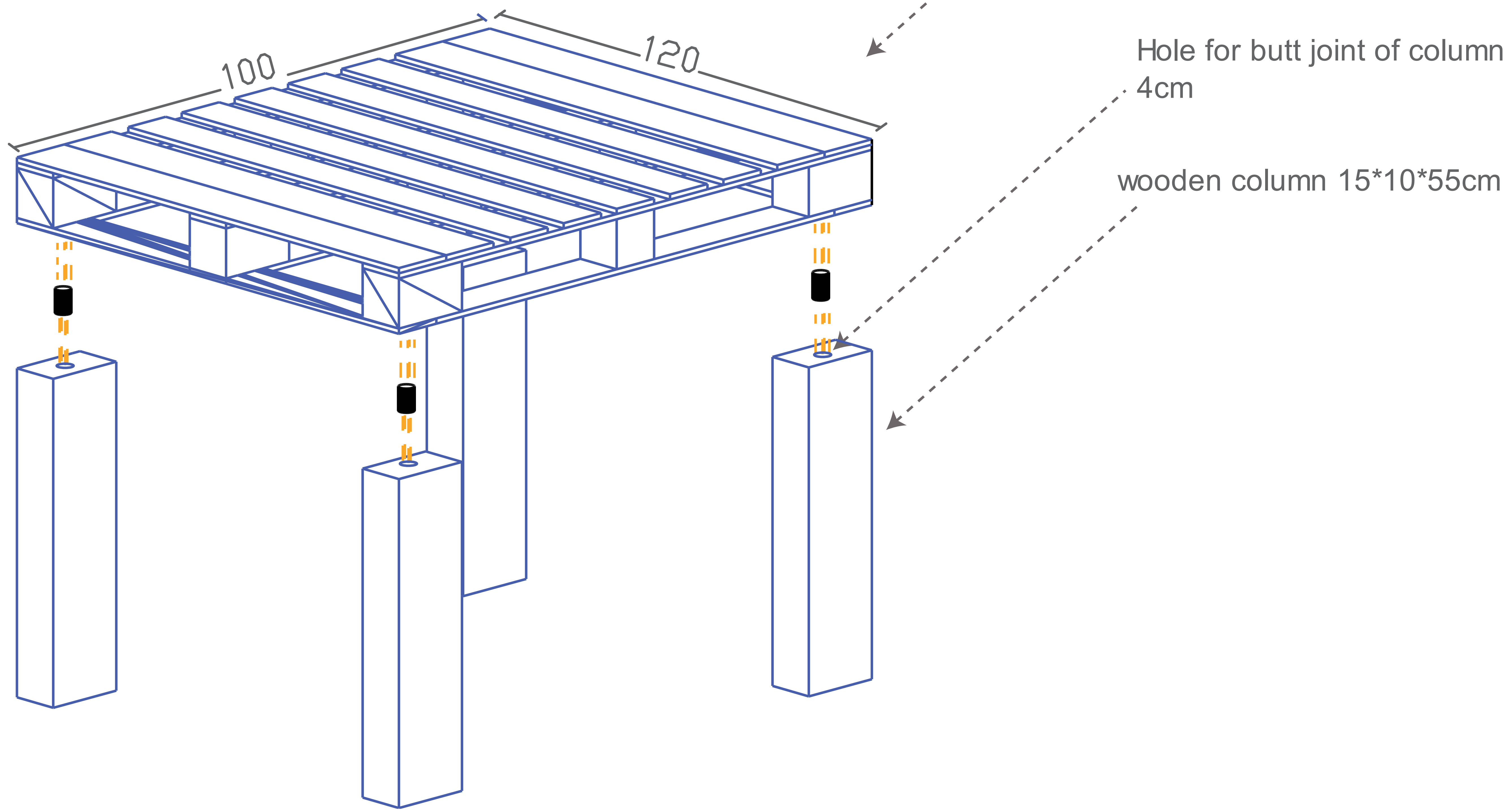
DIMENSIONS

BY CM

Pallets for desk

Pallets for chair





4-way entry pallet
100
120
Hole for butt joint of column
4cm
wooden column 15*10*55cm

Flexible

electrical idea

Extention cord reel

Utility Hook

Track-mounted power outlet system

. Adaptive design ⟶ Install on wall or ceiling ,allowing easy movement for different outlet positionir

. Modular configuration ⟶ snap-in modules can be moved along the track ,facilitating quick adjusments

. Safety ⟶ include circuit breakers and surge protection,with easy accessibility

. cable managemnet ⟶ integrated system keeps wiring oranized and concealed.

How we can improve the management of our space?

Problem Identification

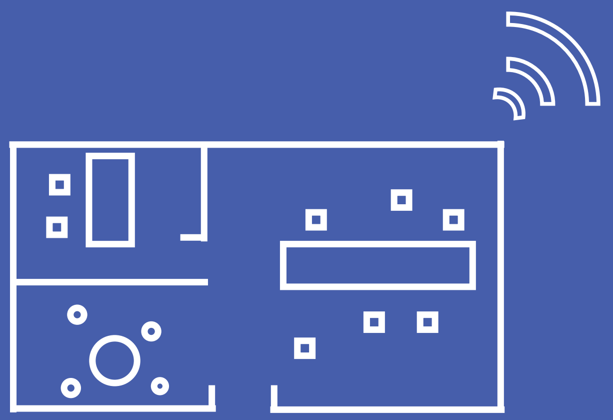
In the current educational landscape, managing learning environments poses significant challenges. Traditional methods often lead to inefficient use of space, conflicts in room booking, and a lack of resources that cater to the diverse needs of students and teachers. This results in a fragmented and static learning experience that hinders the dynamic flow of education.

Work smarter not Harder.

Where fixed workplaces and rigid structures used to dominate office landscapes, more and more companies are now benefiting from the advantages of the smart working concept.have a solution that can provide easy access to have look to available space and furnitures also in remote way is main feature for our project.

Improving management by Occupancy Sensors

WHY OCCUPANCY SENSORS ?



Enhanced connectivity

Seamless device integration

Data analytics

Remote monitoring

Transform building to smart environment

WHY OCCUPANCY SENSORS ?

Enhanced connectivity

Data analytics

nsights from sensor data

Remote monitoring

Transform building to smart environment

WHY OCCUPANCY SENSORS

Enhanced connectivity

Data analytics

Remote monitoring

Manage from anywhere

Transform building to smart environment

WHY OCCUPANCY SENSORS

Enhanced connectivity

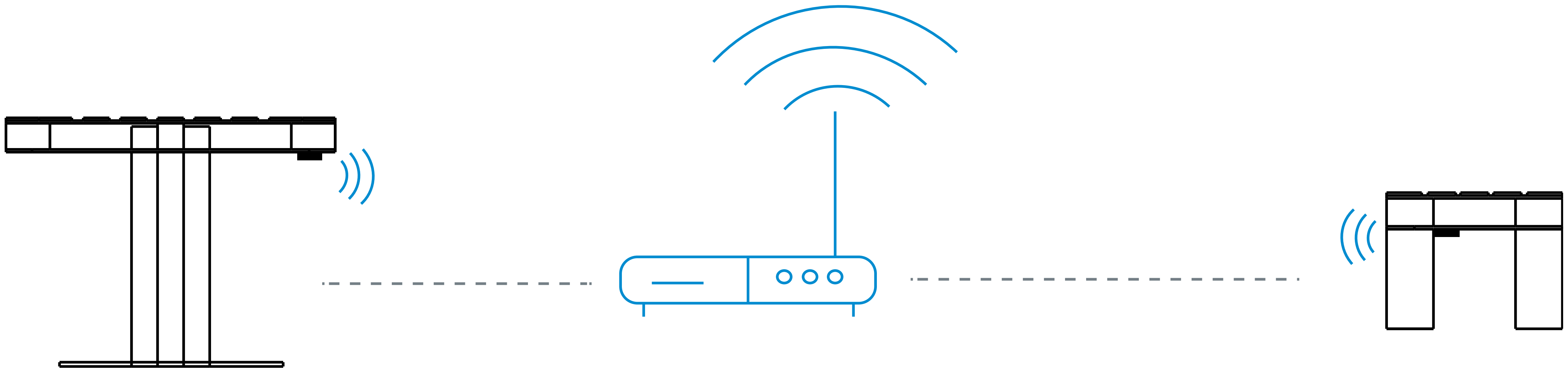
Data analytics

Remote monitoring

Transform building to
smart environment

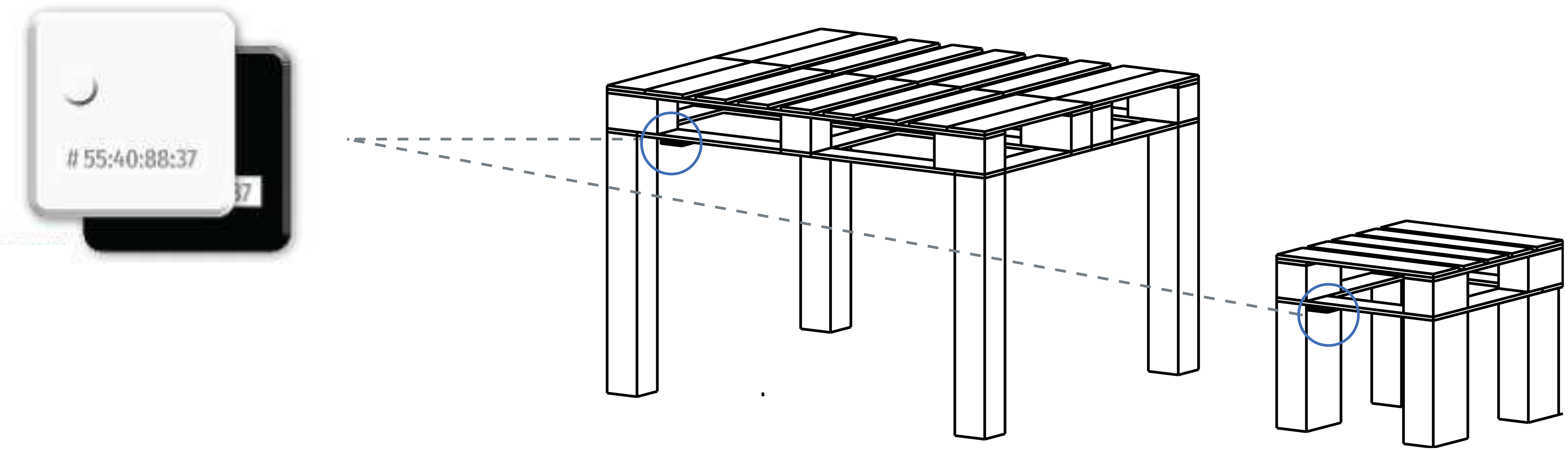
Smarter, efficient environments

How it works ?



The gateway receives the data from the sensors and sends it directly to the cloud.

All sensors and receivers can be installed inconspicuously on furniture. The sensors are extremely small . They are installed on chairs and tables. The data is collected in the gateway and sent to the cloud so that the app can read it.



Brand Introduction

MILESIGHT

designed for bringing higher accuracy and quick occupancy status

detecting for more specific applications.

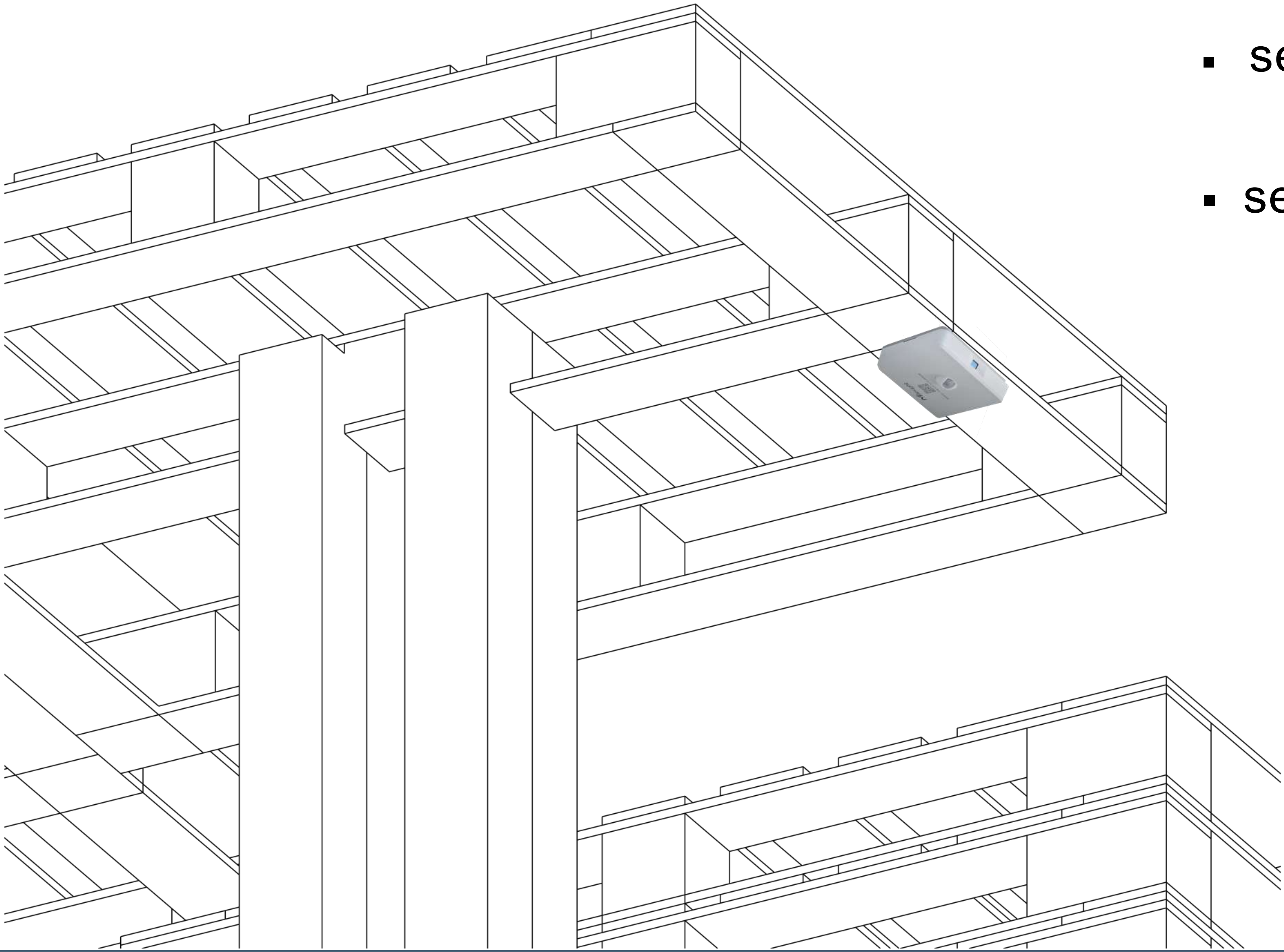
Price : 19 $

FEATURES:

convenient wireless setup without network complexities.is up to 5 meters.

Easy Deployment: Thin, lightweight design with peel-and-stick mounting for bulk deployment.

Long Service Life: With low power consumption, the sensor's LoRaWAN® technology ensures a battery life of up to 5 years.

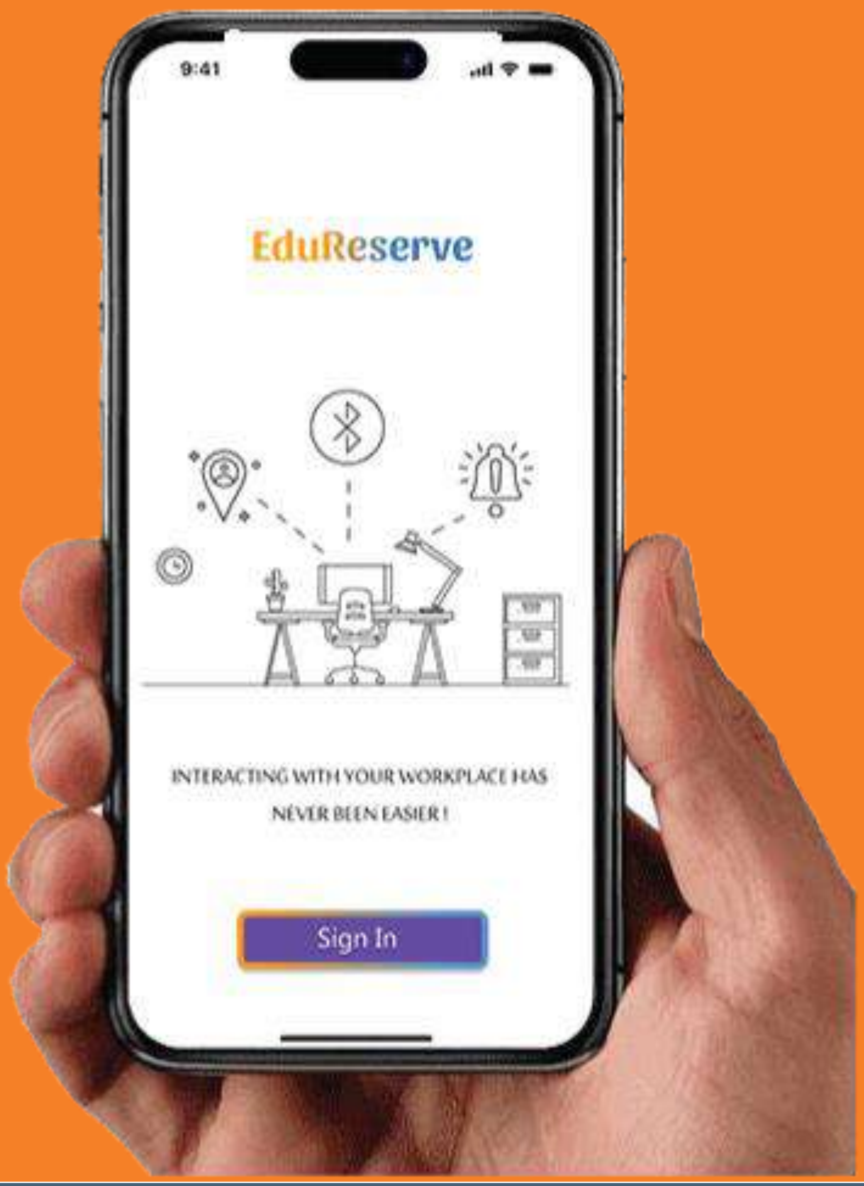


Perfect for :

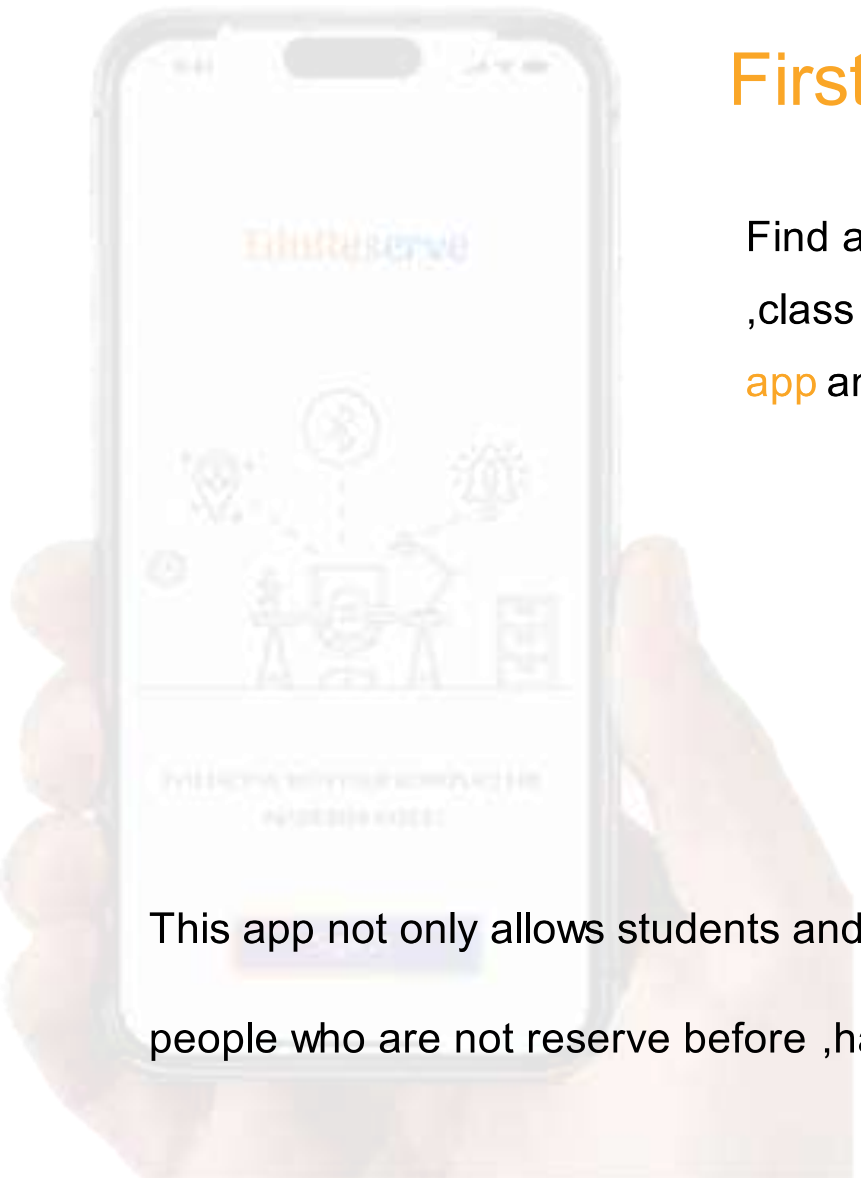
- Desk monitoring
- seats allocation
- seats utilization maximizing

EDURESEVE

Management system for smart working



EDURESERVE



First scenario

Find and Book work place ,class via app and smart phone

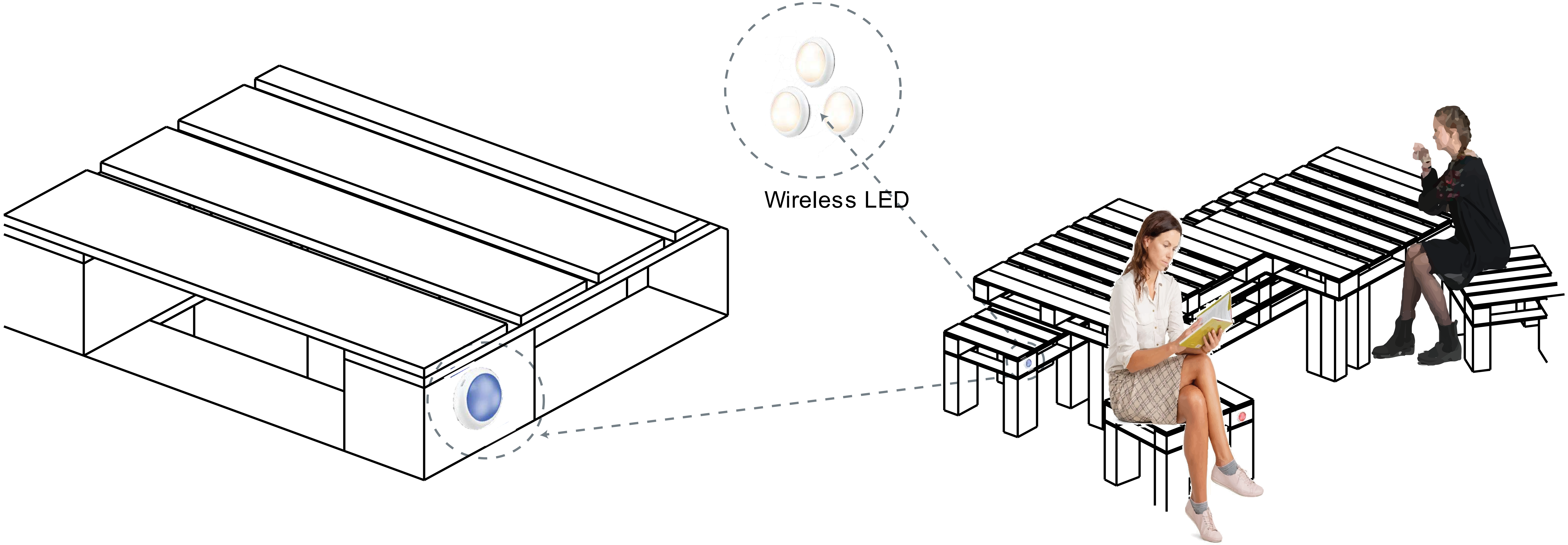
Second scenario

Show Real-time availabilities for who haven’t made reservation by Sensor.

enable to see available furnitures on the spot,also see availablities by lights on furnitures.

This app not only allows students and professors to reserve spaces and furniture but also it can provide a facility th

people who are not reserve before ,have a look to available spots in Real-Time and use it.



Placement: Simply place the Philips Hue Go on the desk or attach it to

The Philips Hue Go is a versatile, wireless light that can be easily installed on desks or chairs to indicate availability through color changes. This smart light can connect to occupancy sensors via Wi-Fi, eliminating the need for cables

. Easy Installation: Portable and compact, it can be placed anywhere.

. Wi-Fi Connectivity: Connects seamlessly with IoT devices, including occupancy sensors.

. Color Indication: Can display various colors to indicate the status of availability (e.g., green for available, red for occupied).

LETS DIVE INTO THE APP

SCAN ME