



SAINT-GOBAIN ARCHITECTURE STUDENT CONTEST 2024

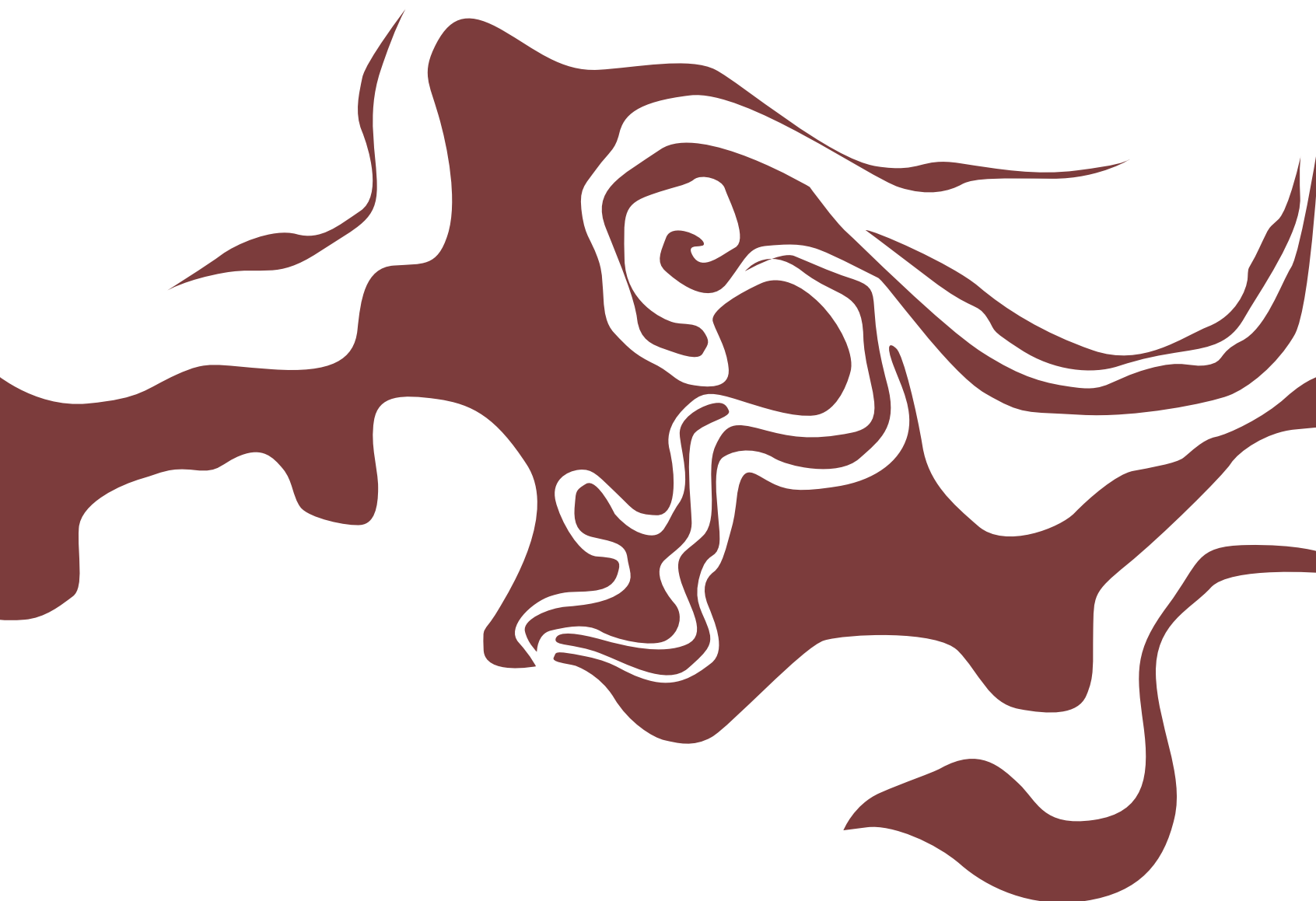
NORD-ISÈRE, FRANCE

RIVIÈRE

RISEBA FAD

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Efe Duyan, Ilze Palkone

RIGA 2024



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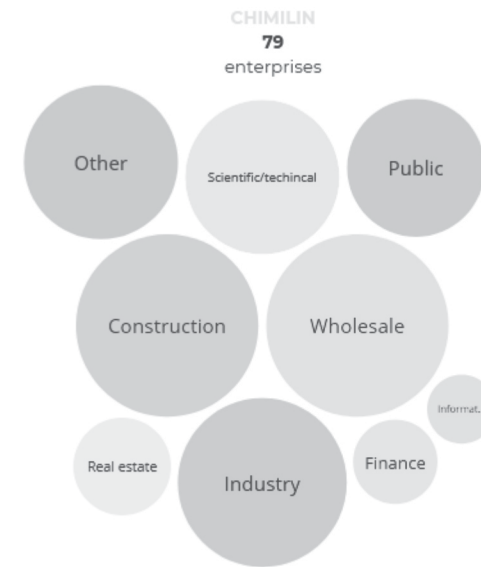
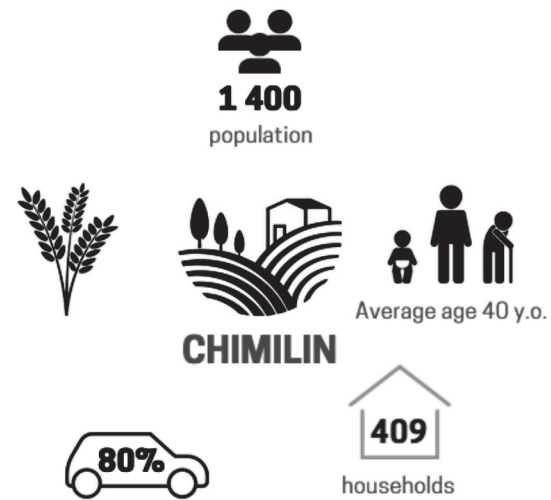
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PART 1: RESEARCH



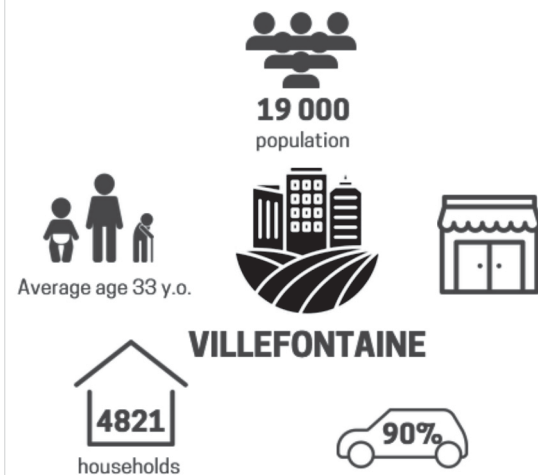
CHIMILIN & VILLEFONTAINE



Villefontaine began as an even less densely populated area than Chimilin, but it experienced a dramatic transformation in the 1970s. Over this period, its population density surged, multiplying 35 times from its original size. In contrast, Chimilin has seen a moderate increase, doubling in size over the same span. Despite this growth, it has remained a small village, especially when compared to the expansive development of Villefontaine.

Villefontaine's housing stock skyrocketed from just 170 units to nearly 8,000, largely due to its incorporation into the new town of L'Isle-d'Abeau in 1968 as part of a State initiative. While Chimilin also experienced growth, its housing numbers have not reached comparable levels, maintaining its identity as a small municipality.

Interestingly, the types of residences differ between the two towns. Villefontaine is characterized by a higher proportion of flats, while Chimilin is predominantly made up of houses. In both towns, the majority of housing units are principal residences, serving as the primary homes for their occupants. Only a small fraction consists of secondary or vacant properties.



PART 2: CONCEPT

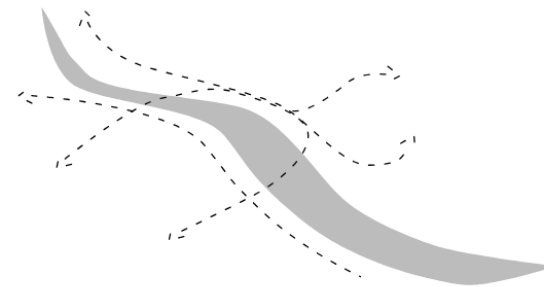
Rivers are associated with community, growth, and life in many cultures. The first villages formed around rivers for several essential reasons, all linked to the fundamental needs for survival, agriculture, transportation, and societal development. Rivers played a key role in enabling agriculture by irrigation of crops.

Rivers once were lifelines that facilitated the exchange of goods, ideas, and cultures. Therefore, our project emphasizes connectivity as a central theme. The goal is to create both spaces and interspaces that invite people to collaborate and exchange ideas, by playing with the flow through the building.

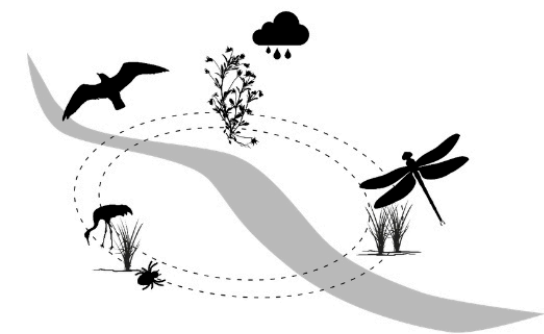
The physical layout of the program symbolizes a flowing stream of a river, and inspiring a dynamic movement of people. Three elongated blocks are interconnected, referencing the rapid river banks. Along the stream, there are three main meeting points and outdoor communal spaces or “pools” that seamlessly merge the workshop spaces and the living areas and enable a free idea flow between residents, students, and participants. We aim to make multi-functional spaces that can evolve over time, much like river systems that shift and adapt to new conditions



Community & connectivity



Flow & accessibility



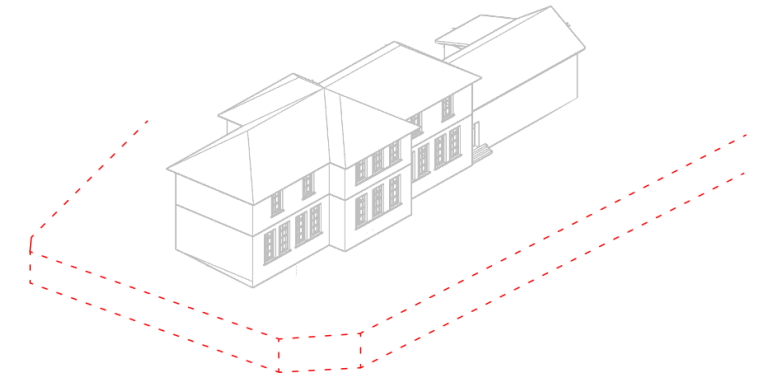
Ecosystem

PART 3: BUILDING A

Diagrams
Masterplan
Floor Plans
Elevations
Section Cuts
3D Rendered Images

Existing situation

Opening up the building for Chimilin community by demolishing the concrete wall around the plot. This way we achieve the connection between space and people.

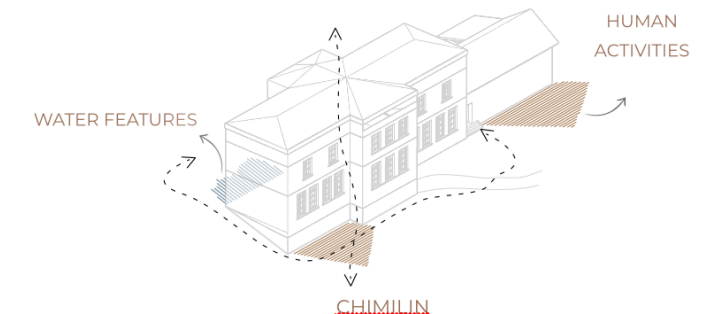


Existing → Proposal

Opening up the basement and creating a new usable attic floor

Concept implementation

Creating water features such as rain gardens, rainwater collecting systems throughout the building and re-using the collected water. Designing spaces around the building for human activities



Renovation of an Existing Building in Chimilin

Chimilin, France
Ground floor area 250m 2
Floor count - 4

The village of Chimilin is undertaking several construction projects to enhance its appeal to visitors. To meet tourist demand, a 40-room hotel with an adjoining restaurant is being constructed near the highway toll. There is significant support at the territorial level for Auberge-style restaurants, or Farm Inns—working farms that dedicate a substantial portion of their activities to catering or, in some cases, hospitality. These establishments offer a unique experience for tourists seeking an authentic taste of the region. Chimilin is committed to preserving its existing building stock while incorporating modern construction to boost the village's attractiveness.

The building used to be a school that was abandoned due to existence of cracks in its facade. Since the building is important to the Chimilin community due to it's history, we propose to take full advantage and offer the building to be used from the basement floor to the attic.



Within our proposal, we have included dedicated spaces for various functions such as an administrative area, a cafeteria, meeting rooms, leisure spaces, storage for associations' materials, playrooms, and offices to support the village's associations and community activities.



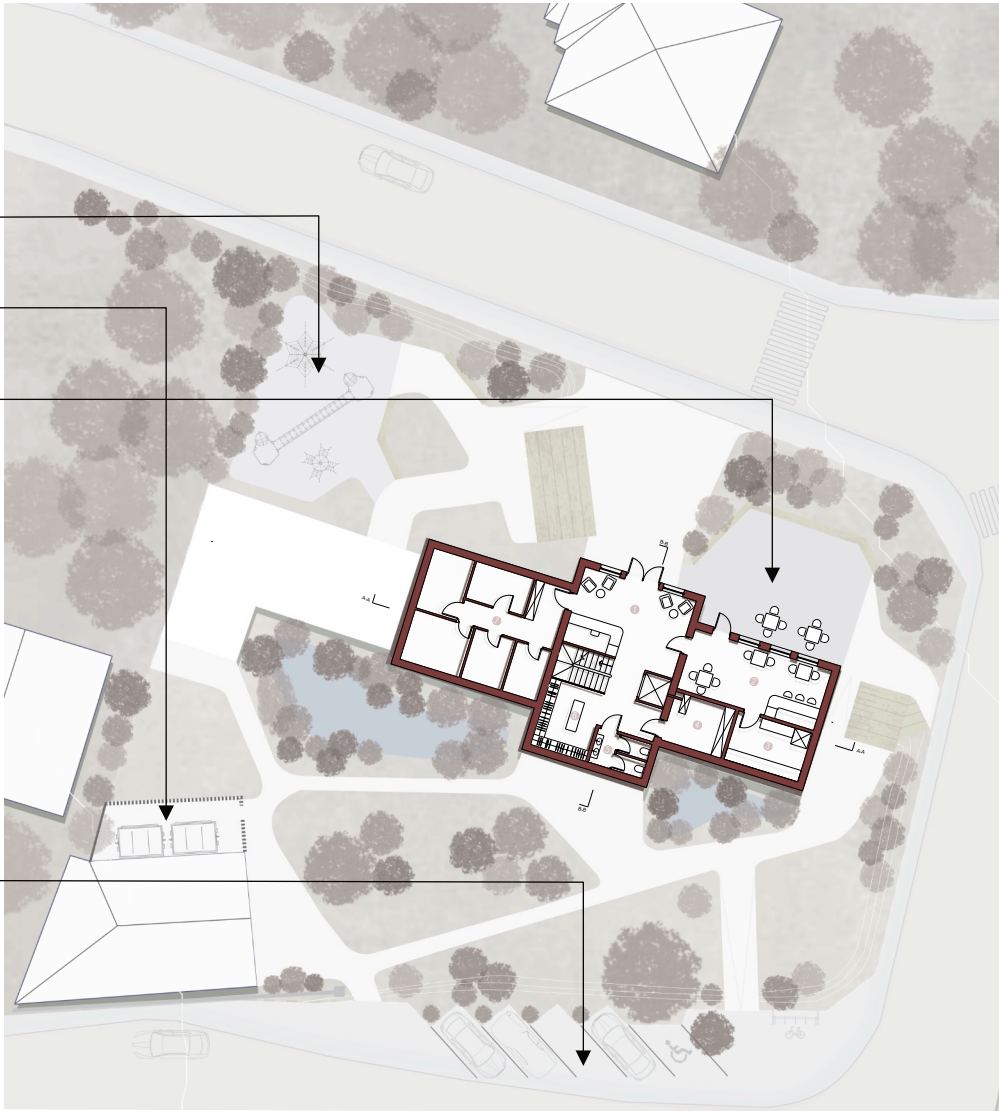
DESIGN

PLAYGROUND

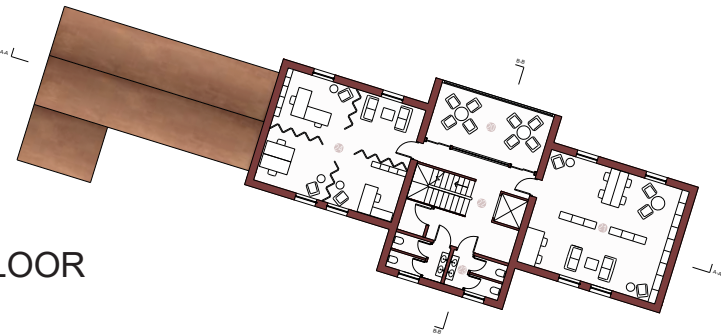
WASTE SHED

TERRACE

PARKING

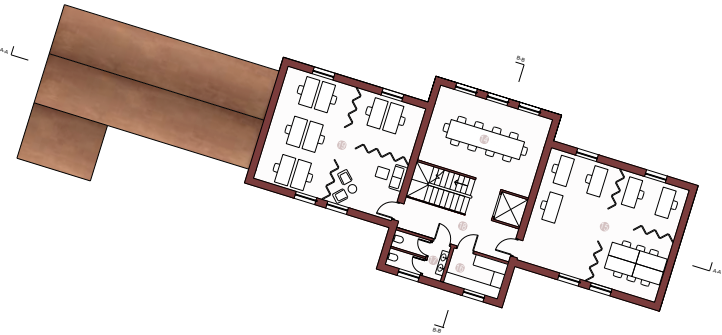


THIRD FLOOR



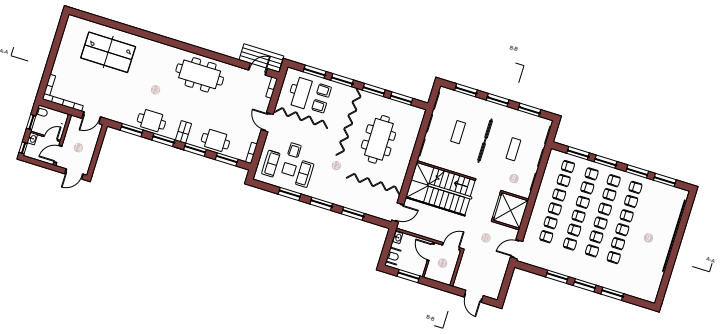
NO.	ROOM NAME	M ²
20	BALCONY	22
21	LIBRARY	52
22	CORRIDOR	20
23	WC	14
24	ADMINISTRATION	52

SECOND FLOOR

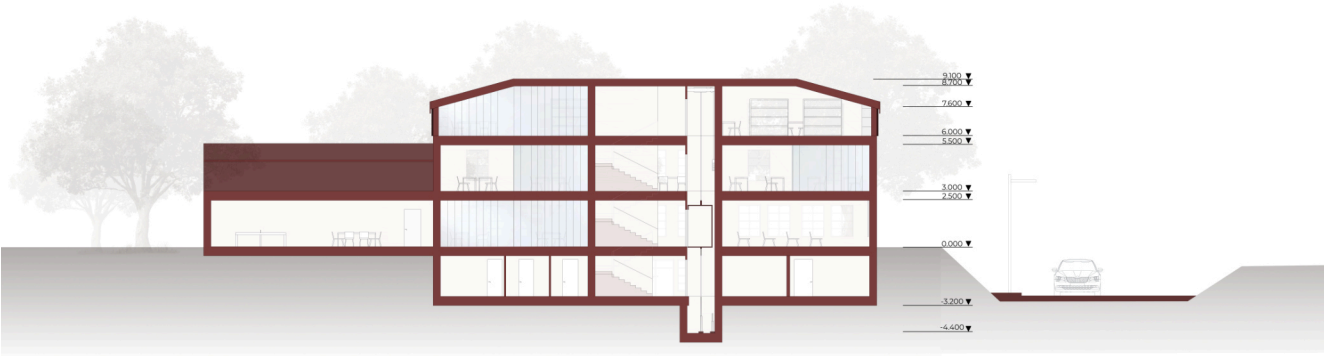


NO.	ROOM NAME	M ²
14	MEETING ROOM	30
15	CO-WORKING ROOM	52
16	STORAGE	7
17	WC	7
18	CORRIDOR	15
19	CO-WORKING ROOM	52

FIRST FLOOR



NO.	ROOM NAME	M ²
8	EXHIBITION ROOM	30
9	MULTIPURPOSE ROOM	52
10	CORRIDOR	15
11	WC	7
12	CO-WORKING ROOM	52
13	WC	11



PART 4: BUILDING B

Diagrams
Masterplan
Floor Plans
Elevations
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3D Rendered Images

New Construction and Volumetry Proposal for Les Grands Ateliers Campus Building B

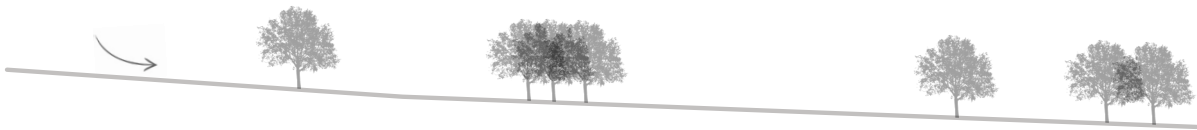
Villefontaine, France
floor area - 1 180 m²
floor count - 1

Our proposal envisions a new campus designed to facilitate the work of students and professors while also welcoming visitors to engage with their activities and exhibitions. The centerpiece of the campus will be a new multi-functioning building, accommodating approximately 64 students and researchers while also housing a "laboratory for co-creation," equipped with office spaces and meeting rooms to foster collaborative innovation. The design of the accommodation includes essential living spaces such as a shared living room area, leisure and play spaces and other communal amenities. The laboratory for co-creation will be fully accessible, with direct entry points from both the Astus platform slab at ground level and the nearby road and parking area.

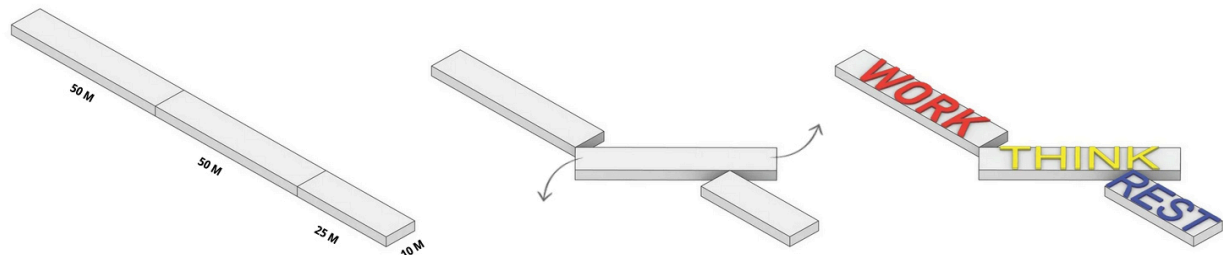


Existing situation

The plot has a slope of about 4,33%



Volume



Dividing the total area of a narrow slab in three main parts

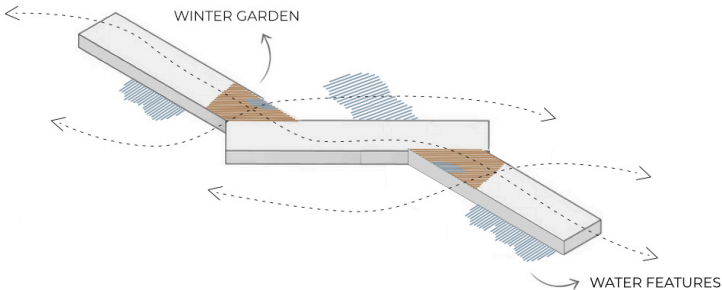
Rotating the middle part to mimic the river curves

Three main functions in each block



Concept implementation

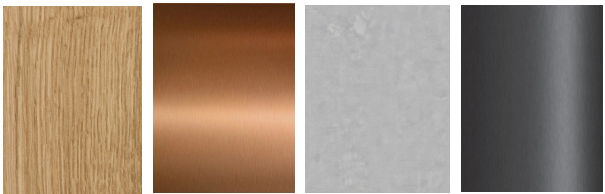
Creating water features such as rain gardens, rainwater collecting systems throughout the builgn nd re-using the collected wtaer. Creating winter gardens in the connection points og the rhree blocks



DESIGN



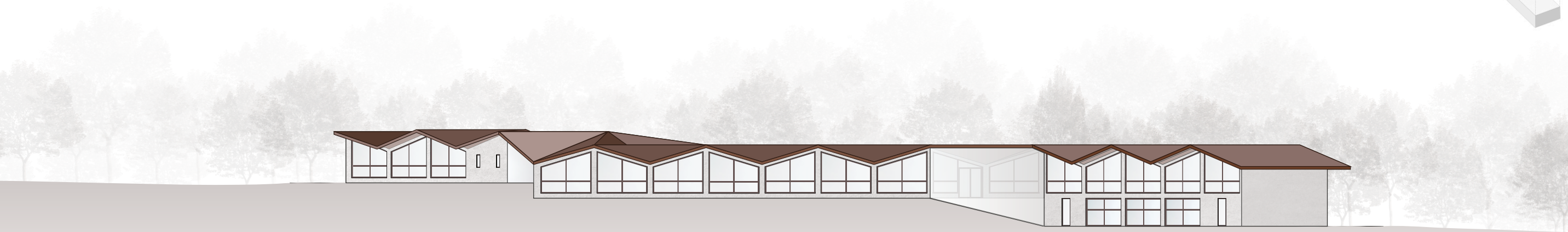
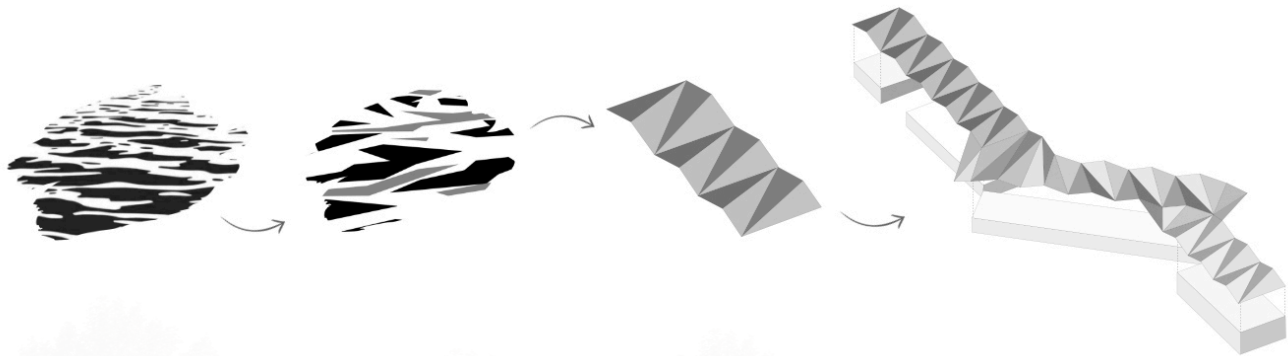
The proposal also addresses accessibility and mobility, with thoughtful designs for entrances connecting the campus to nearby routes. This ensures seamless connectivity and promotes efficient internal movement throughout the campus. By integrating these elements, the proposed campus will serve as a vibrant, functional, and forward-looking space, meeting the diverse needs of its users while fostering collaboration and innovation.



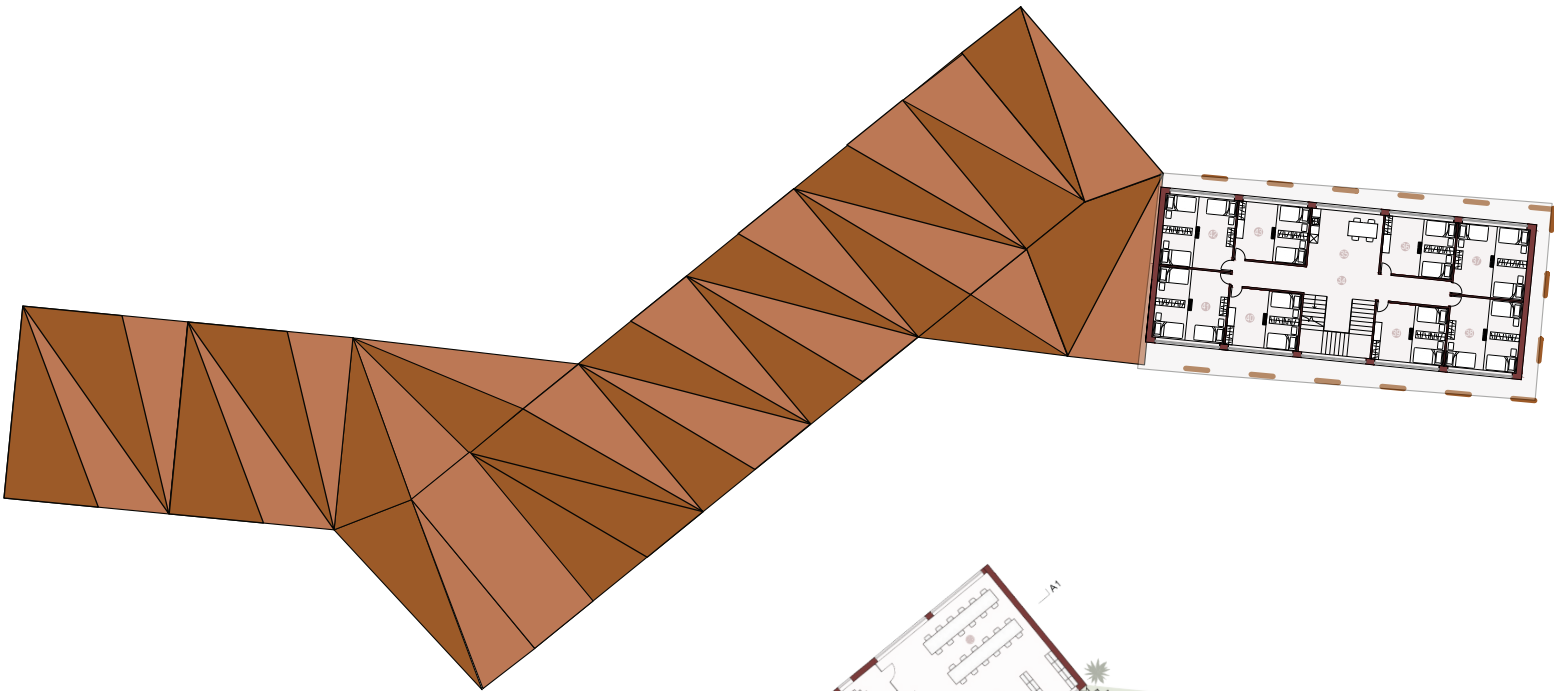
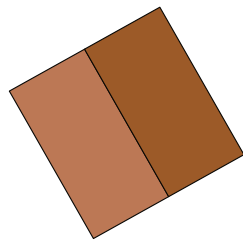
In our proposal, we have carefully selected materials that balance functionality, aesthetics, and sustainability. The primary materials include wood, concrete, copper roofing, and colored stainless steel. Each of these materials has been chosen for its unique properties and its contribution to creating a sustainable and enduring campus.

Together, these materials not only ensure the campus's resilience and visual appeal but also support sustainable construction practices. By prioritizing renewable, recyclable, and low-impact materials, the design aligns with contemporary environmental standards and fosters a responsible approach to building for the future.

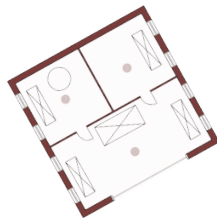
ROOF DIAGRAM



SECOND FLOOR



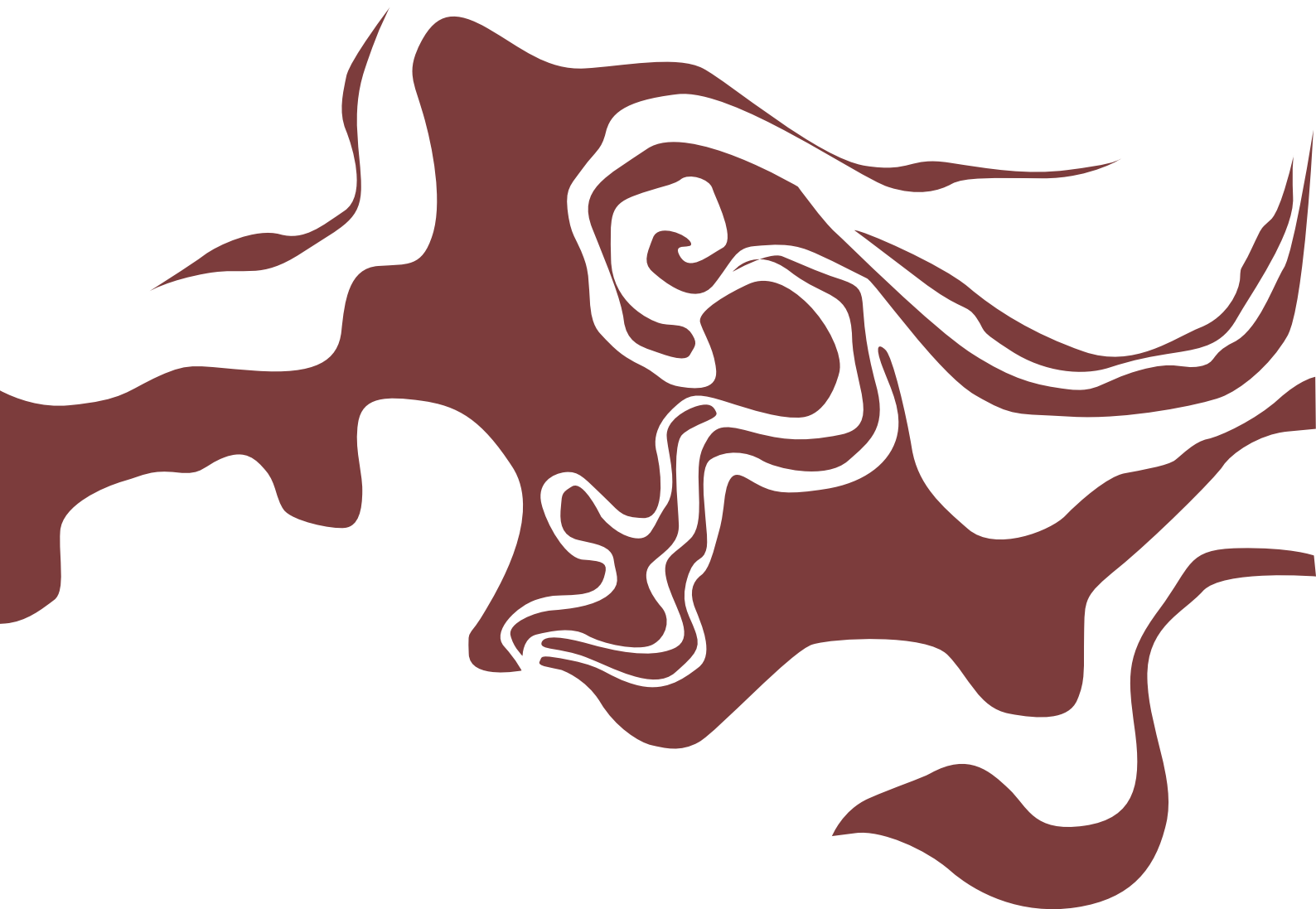
GROUND FLOOR



NO.	ROOM NAME	M ²
1	SILLO	40
2	SHREDDER SPACE	20
3	BOILER ROOM	20
4	PROTOTYPING AREA	50
5	LABORATORY	100
6	WC (WM)	6
7	MACHINE ROOM	6
8	CHANGING ROOM (M)	12
9	CHANGING ROOM (W)	12
10	RECEPTION/ WINTER GARDEN	
11	ENTRANCE	25
12	MULTIPURPOSE ROOM	100
13	KITCHEN	12
14	OPEN OFFICE	150
16	WC (W)	12
17	WC (M)	12
18	MACHINE ROOM	12
19	MEETING ROOM	25
20	MEETING ROOM	25
21	MEETING ROOM	12
22	MEETING ROOM	12
23	OPEN OFFICE	100
24	WINTER GARDEN	
25	PLAYROOM	50
26	DOUBLE BEDROOM	20
27	DOUBLE BEDROOM	20
28	COMMON AREA	20
29	SINGLE BEDROOM	20
30	SINGLE BEDROOM	20
31	WC/SHOWERS (W)	25
32	WC/SHOWERS (M)	25
33	CORRIDOR	30
34	CORRIDOR	30
35	KITCHEN	20
36	8 BED ROOM	30
37	8 BED ROOM	25
38	8 BED ROOM	25
39	8 BED ROOM	20
40	8 BED ROOM	20
41	8 BED ROOM	25
42	8 BED ROOM	25
43	8 BED ROOM	20



5.700 ▼
4.500 ▼
3.000 ▼
0.000 ▼
-2.500 ▼



RIVIÈRE