

# WANGZHAI INDUSTRIAL PARK



**Site Location:** Wangzhai Village, Wenzhou, Zhejiang, China

**Problem:** Population loss, low economic and cultural vitality, need new drive for the revitalization of the village.

**Description:** Wangzai village is adjacent to WKU and in the planning area of Kean Town. However, due to the governmental planning and economic reasons, most of the villagers have moved away from the village, only some of the elder people left, which make the village aging and lack young or new vitality.

Target Users	Requirements	Potential Solution	Urgency
Villagers	Preserving rural memories, agricultural farmland, spiritual and cultural sustenance	Cultural center. Farm. Ancestral hall.	*****
Tourists	Service requirements during visit: accommodation, food, etc.	Service hall. Hotel(Homestay). Restaurant.	****
Workers	Lunch break during work day to relax, business neogiation	Office. Restaurant. Coffee shop.	***
Students	Specific major students, like biology students to do experiments	Experimental classroom. Lab.	**
Residents	Cultural needs, activity space	Cultural center.	**

Target People



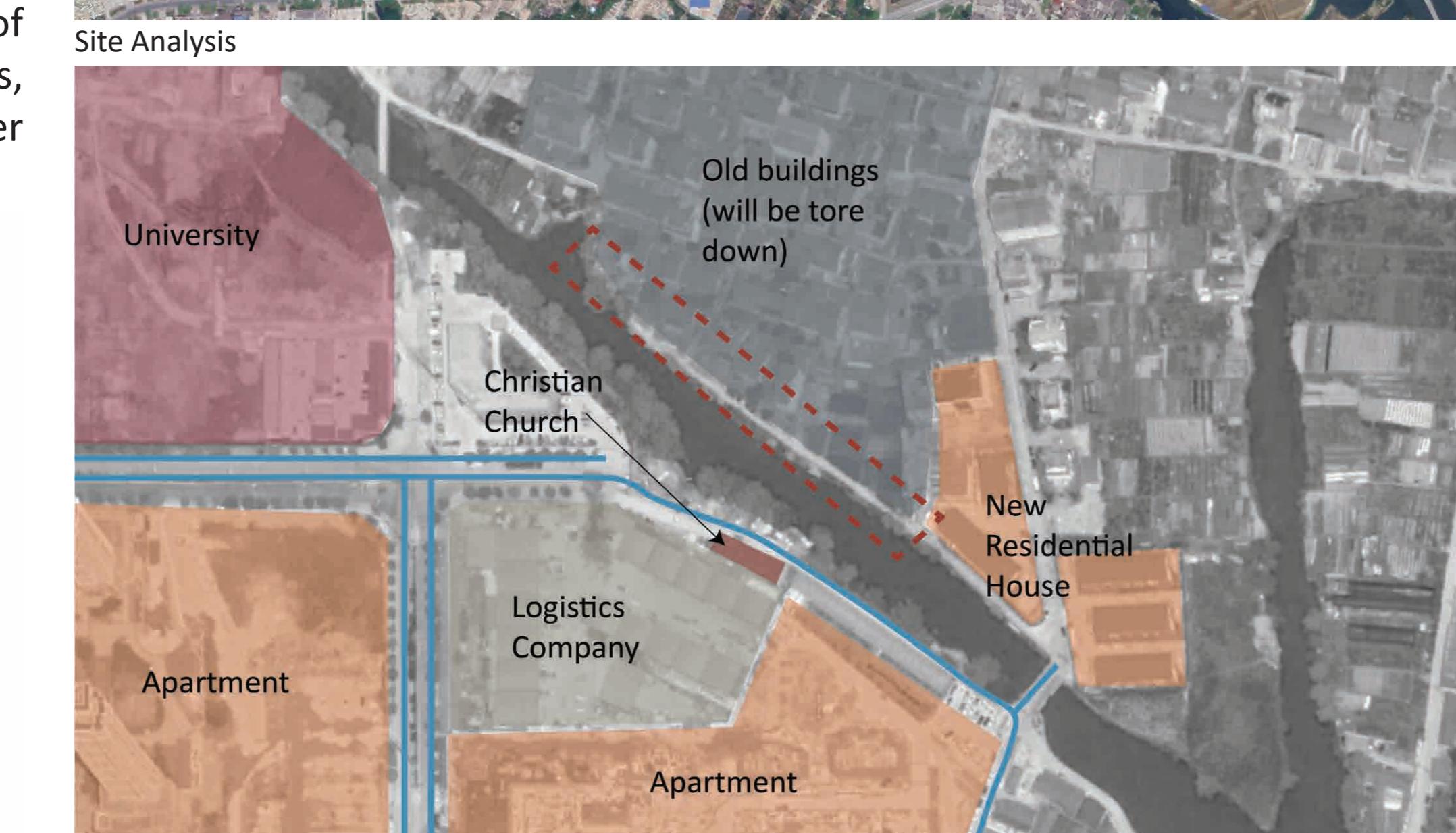
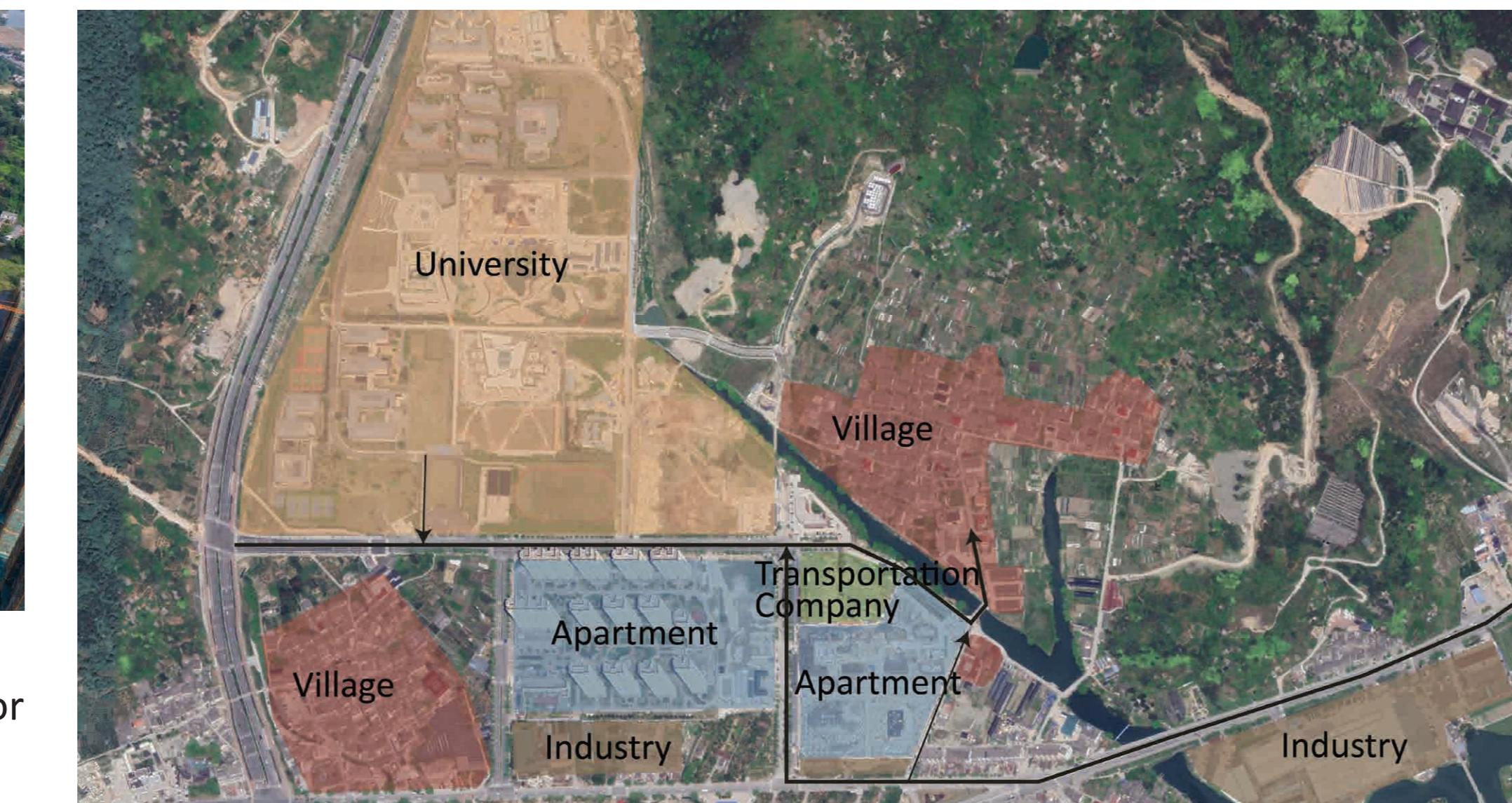
Structural Analysis



River View in the Village



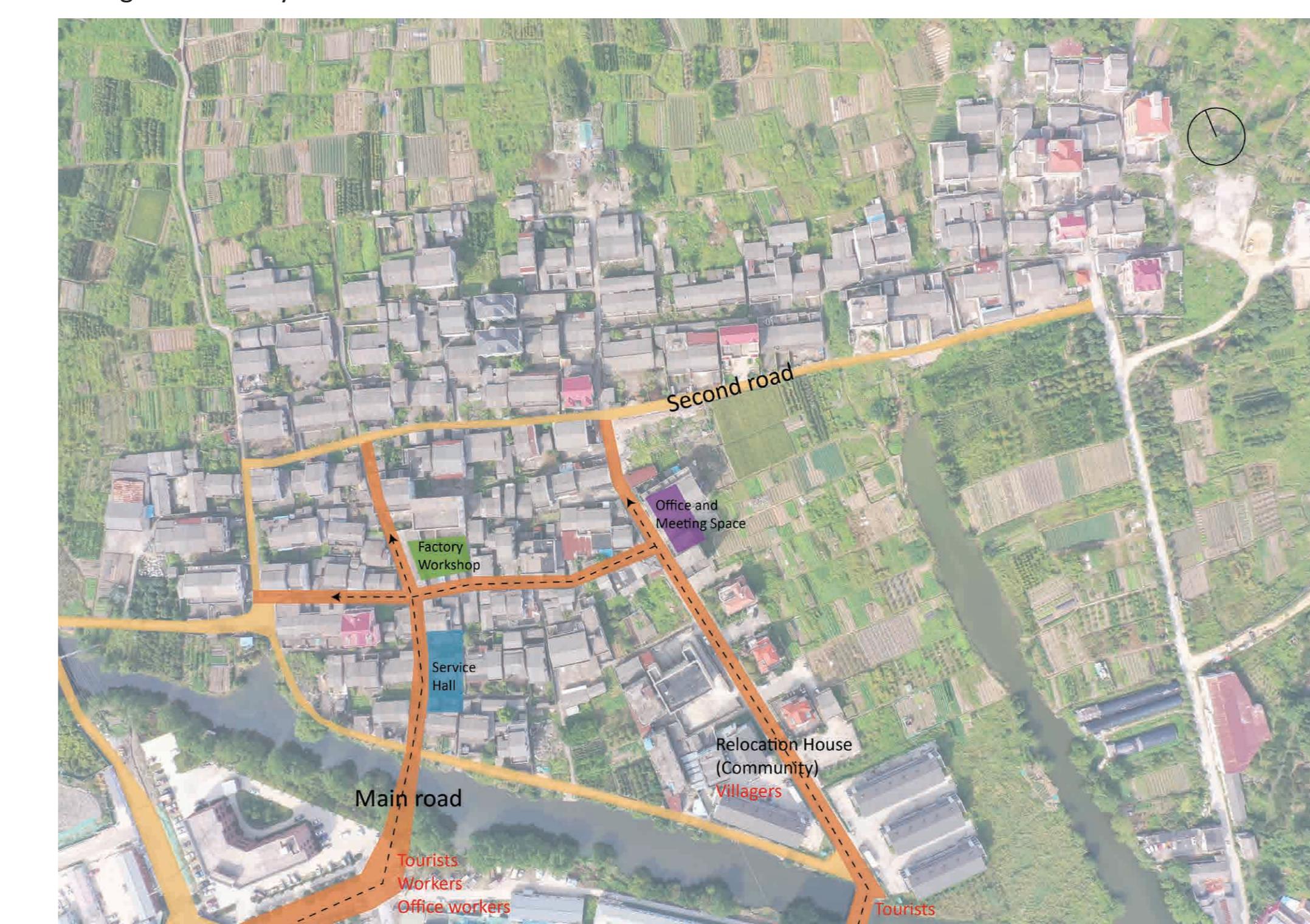
Relocation Building in the Village



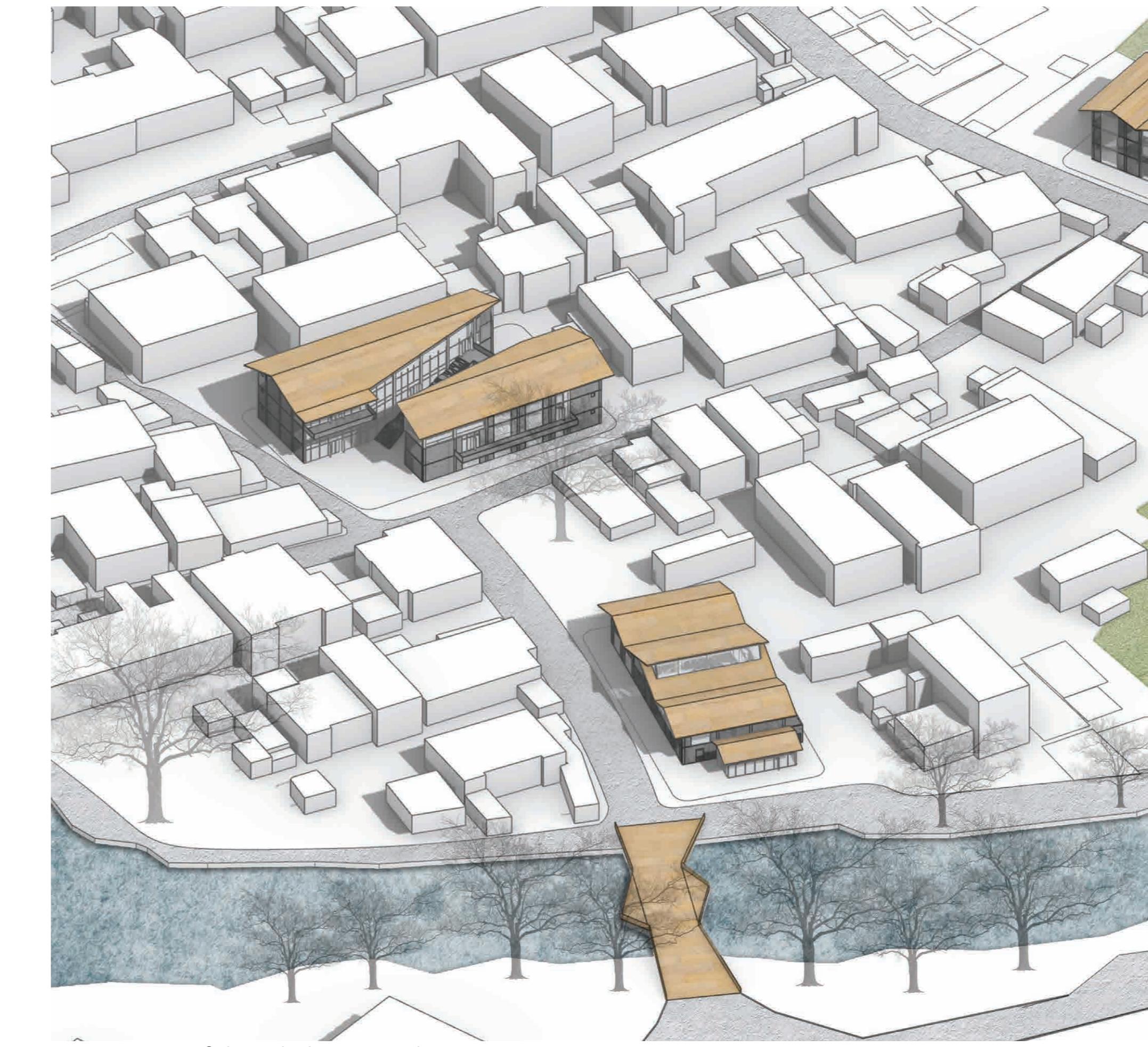
Zoom In Site Analysis



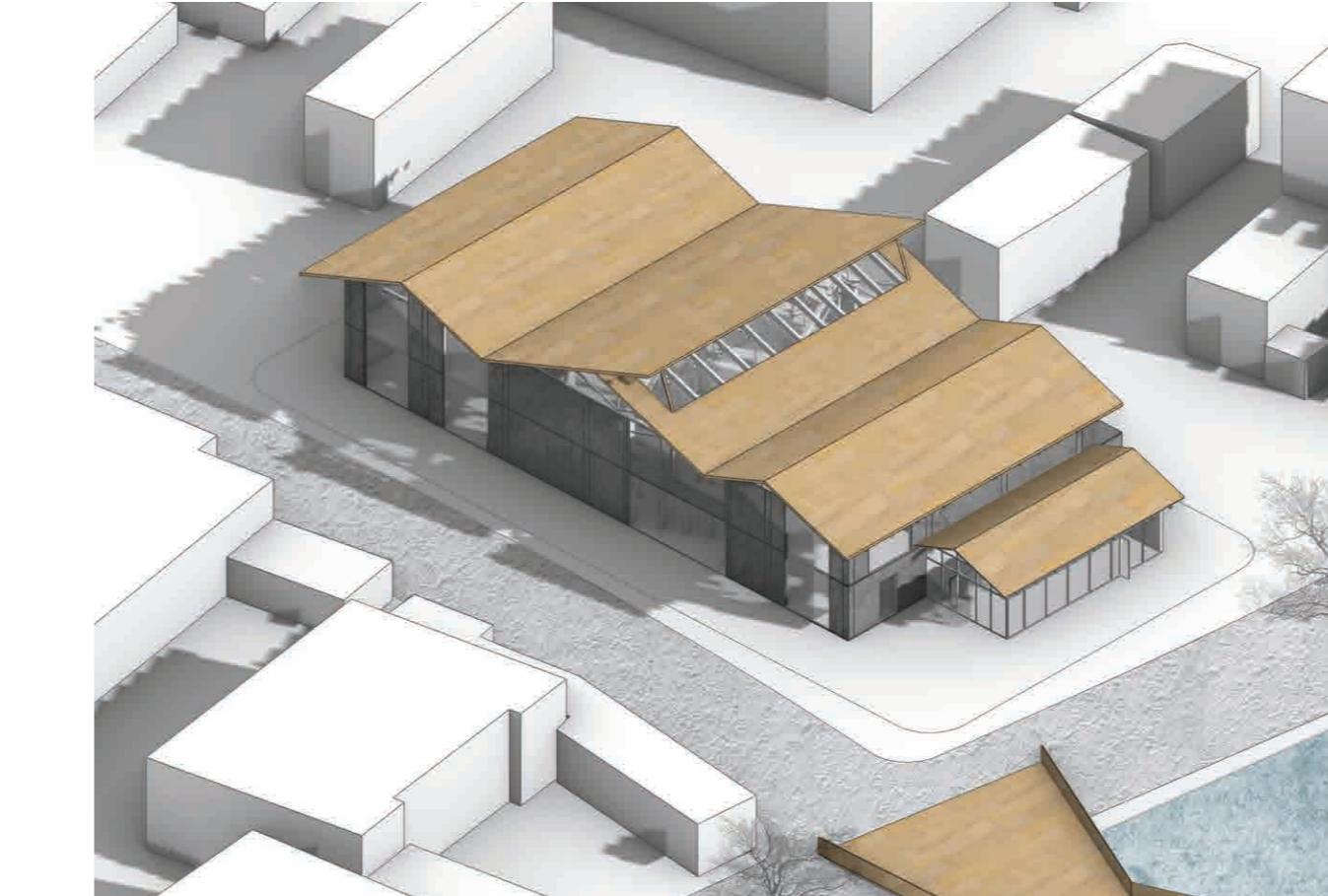
Configuration Analysis



Program Analysis



Axonometric of the Whole Proposal



Axonometric of the Service Hall



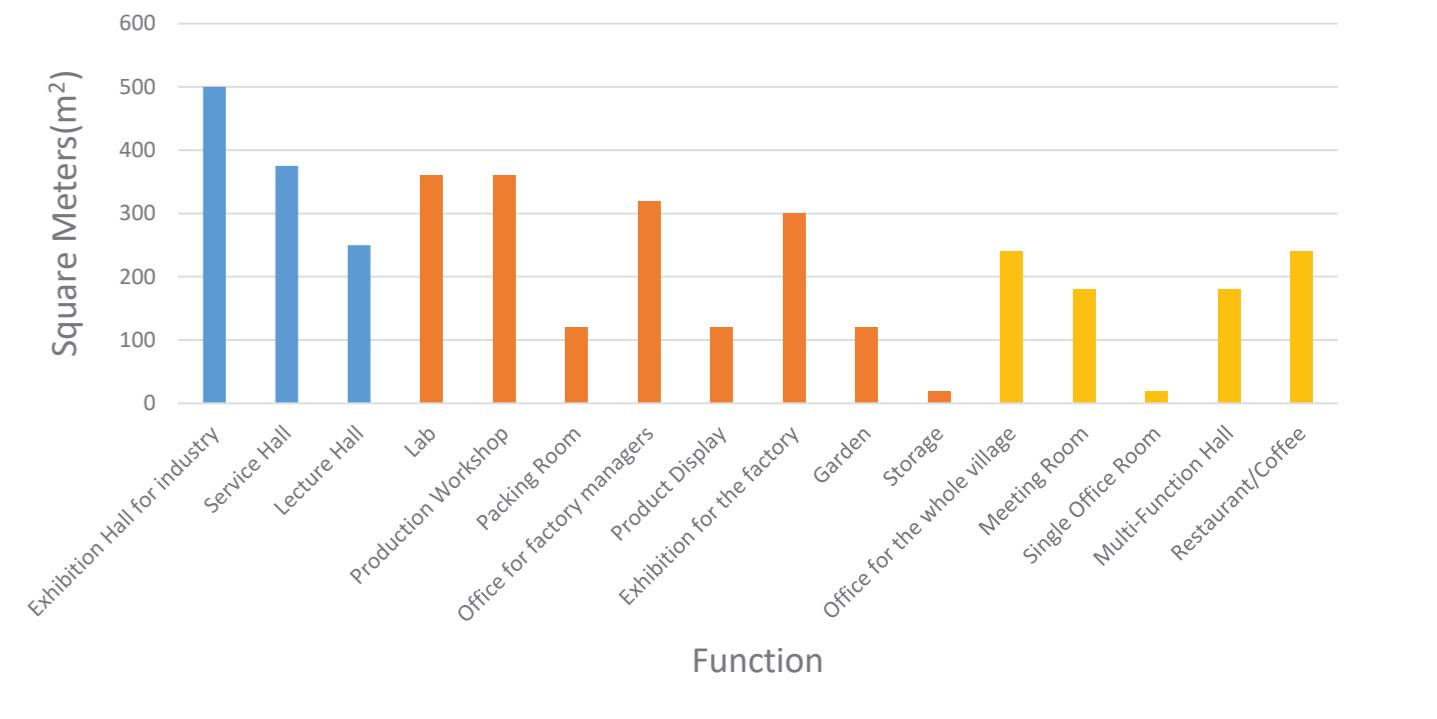
Axonometric of the Factory Workshop

This configuration is mainly for the villagers, the tourists, and workers. Keep the original largest road goes into the village from south to north, enlarge the road that is perpendicular to it at the center east-west axis of the village, enlarge and create an across-over road from one side of the river to another side. These three road will become the main road that leads people into the village from two opposite directions.

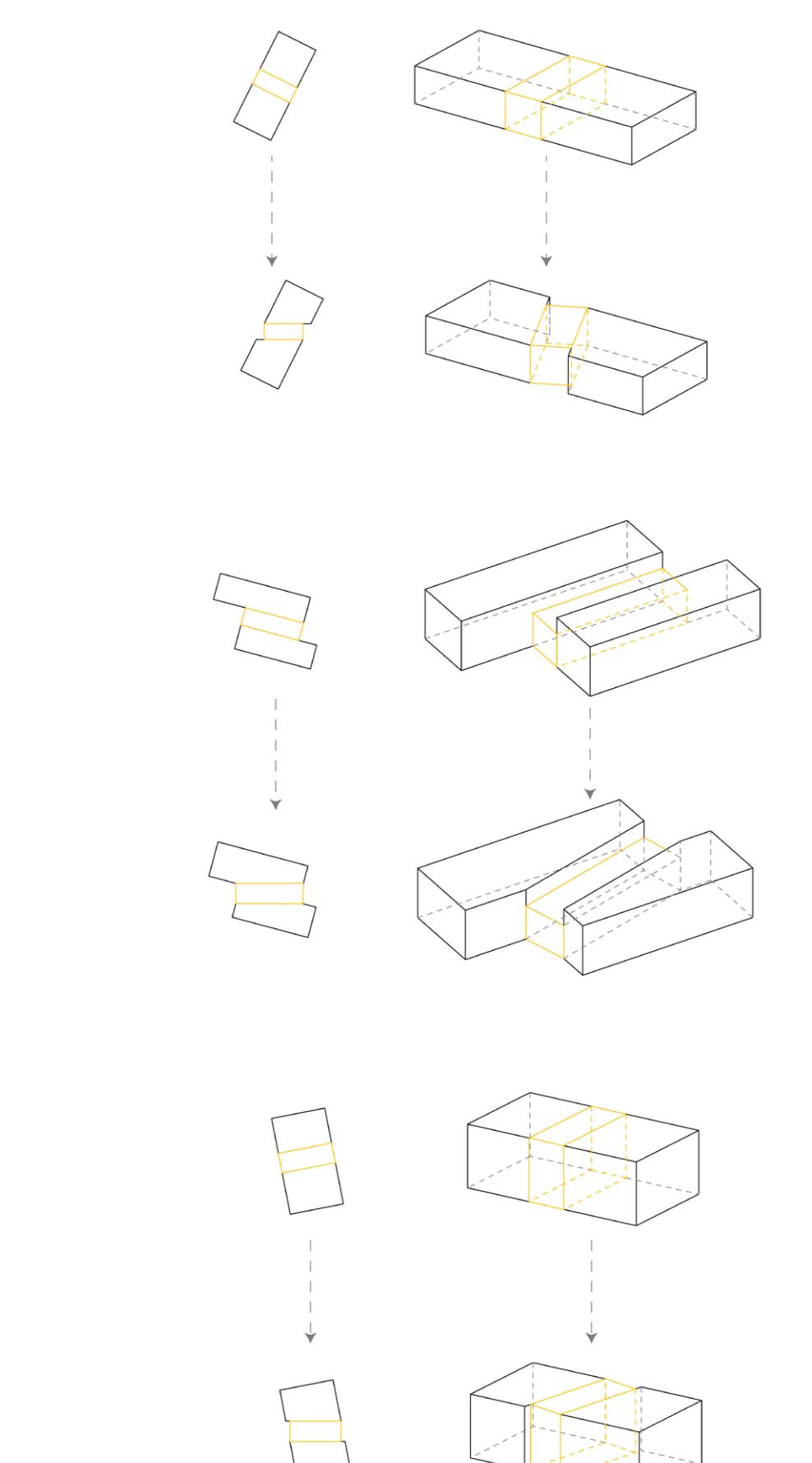
Workers and even students are more likely to go into the village from the left road, villagers are more likely to go from the right road, while tourists could choose one they are more convenient.

Important functional buildings settled along these main roads while the two junction area are more distinguished because of the location. Since different groups of people will come from different direction, then the programs might have different focus, one is more for commercial and office, another is more for cultural community space.

Program	Functional Space	Person	Square meters	Numbers of Space	Area	Total Area	Total Area for the Building
Entry Building	Exhibition Hall for industry	250	1	2	500	1125	1350
	Service Hall	250	1.5	1	375		
	Lecture Hall	250	1	1	250		
Factory(Making space)	Circulation				225		
	Lab	20	3	6	360		
	Production Workshop	30	2	6	360		
	Packing Room	20	6	1	120		
	Office for factory managers	40	2	4	320		
	Product Display	40	3	1	120		
	Garden	40	3	1	120		
	Storage	5	2	2	20		
	Circulation				344		
	Office for the whole village	30	2	4	240		
Meeting Space	Meeting Room	30	2	3	180	860	1032
	Single Office Room	1	10	2	20		
	Multi-Function Hall	100	1.8	1	180		
	Restaurant/Coffee	80	1.5	2	240		
	Circulation				172		



Program Area Organization and Analysis



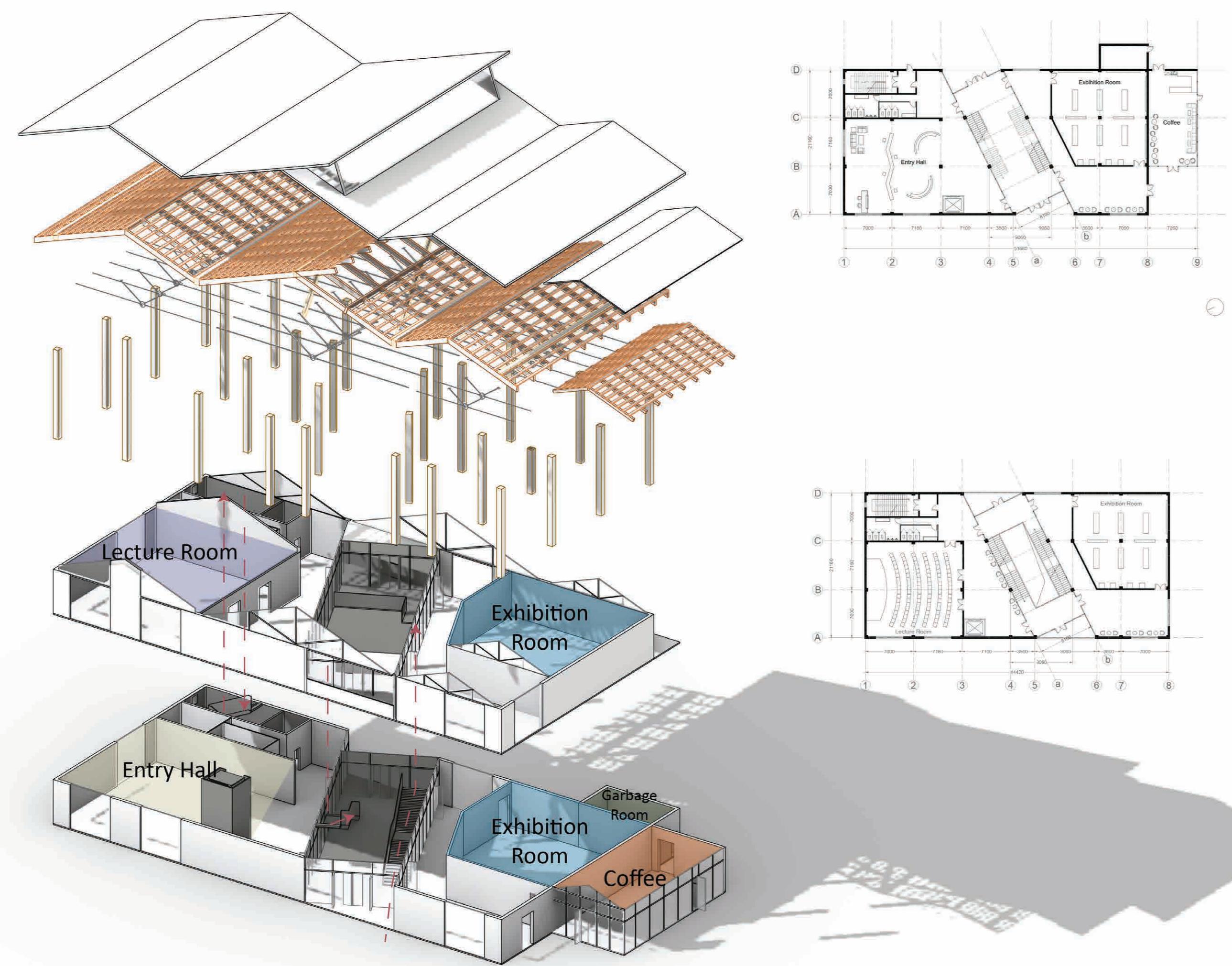
Study Model



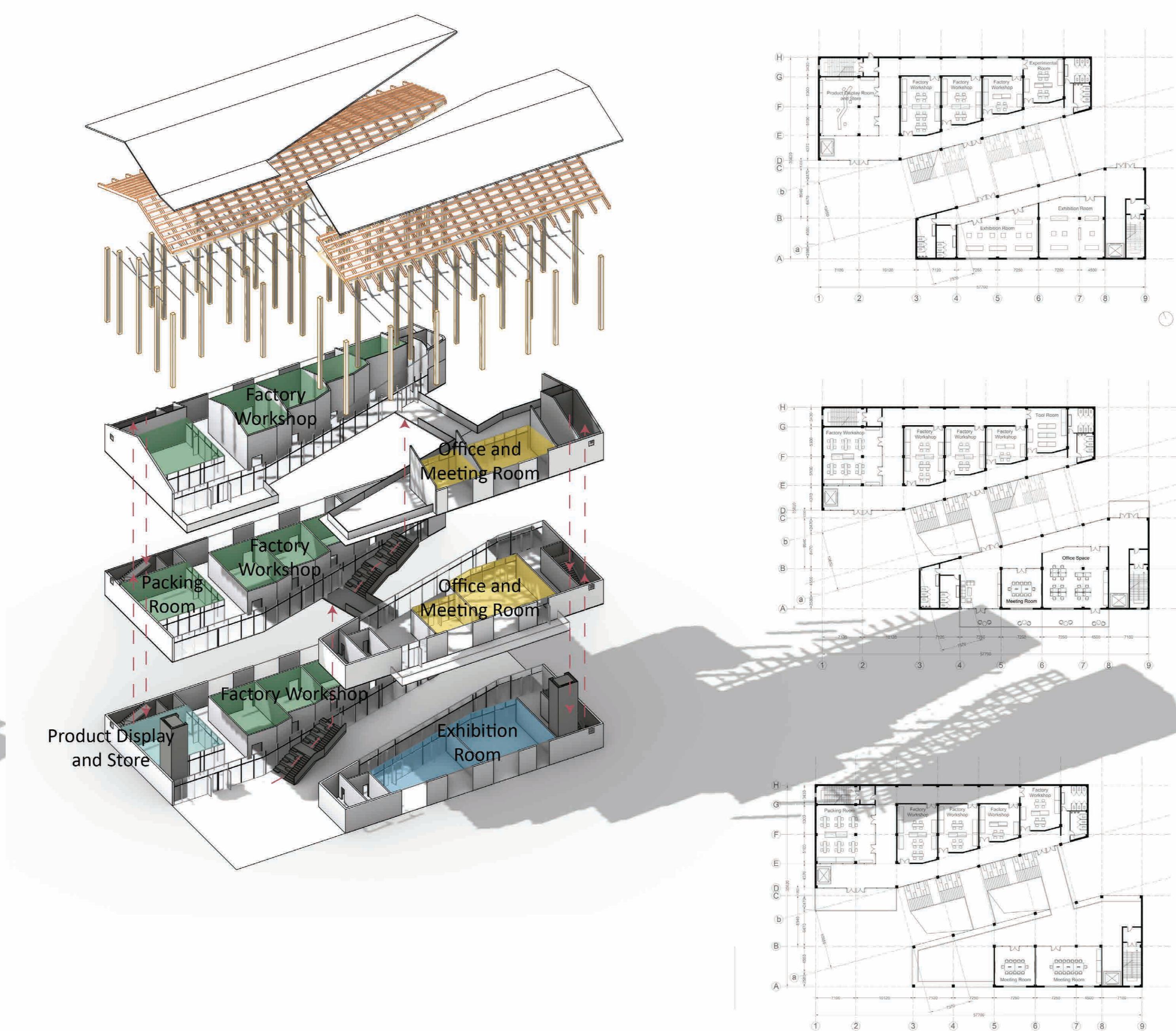
Axonometric of the Office and Meeting Space

Site Plan with Design Proposal

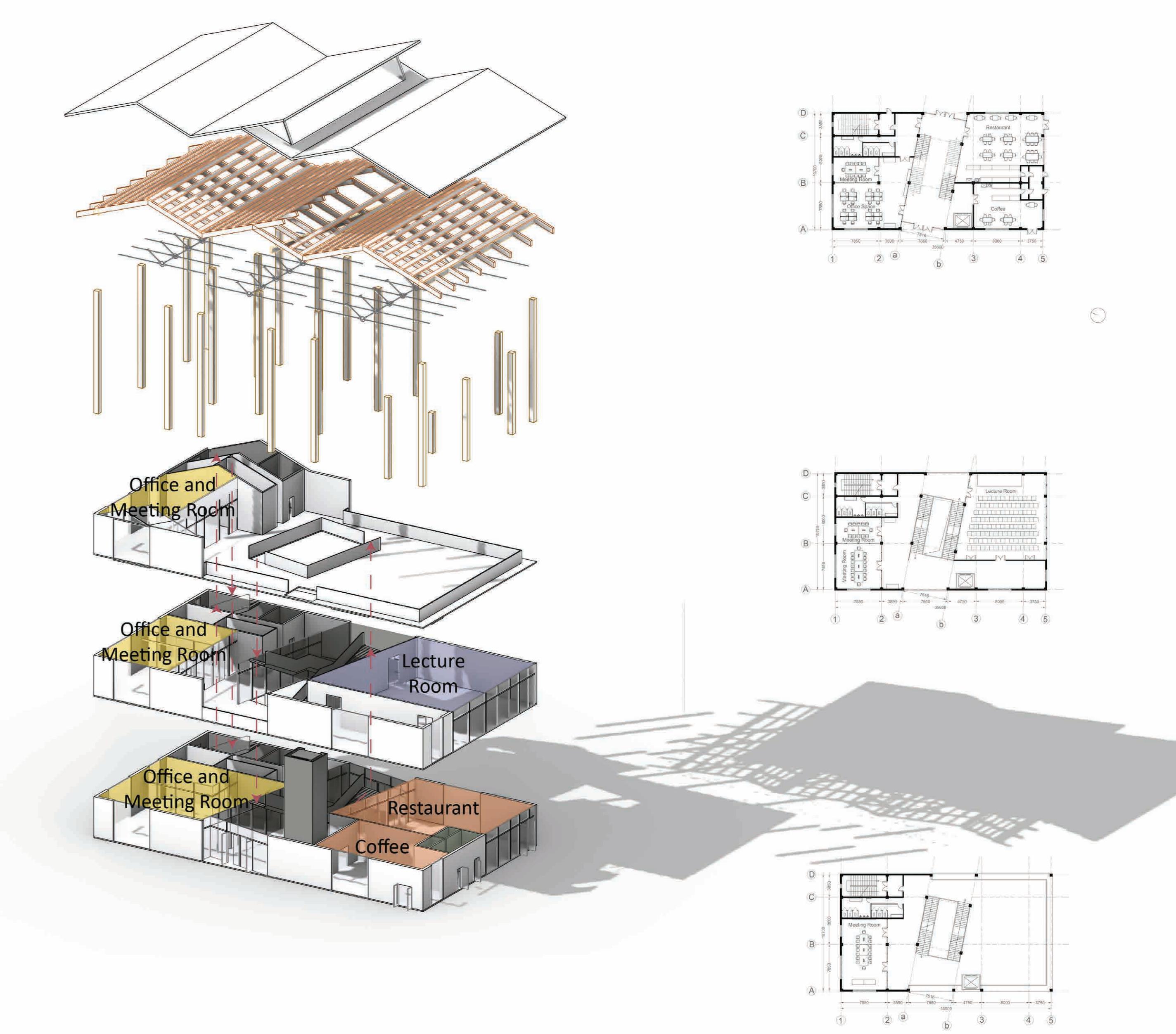
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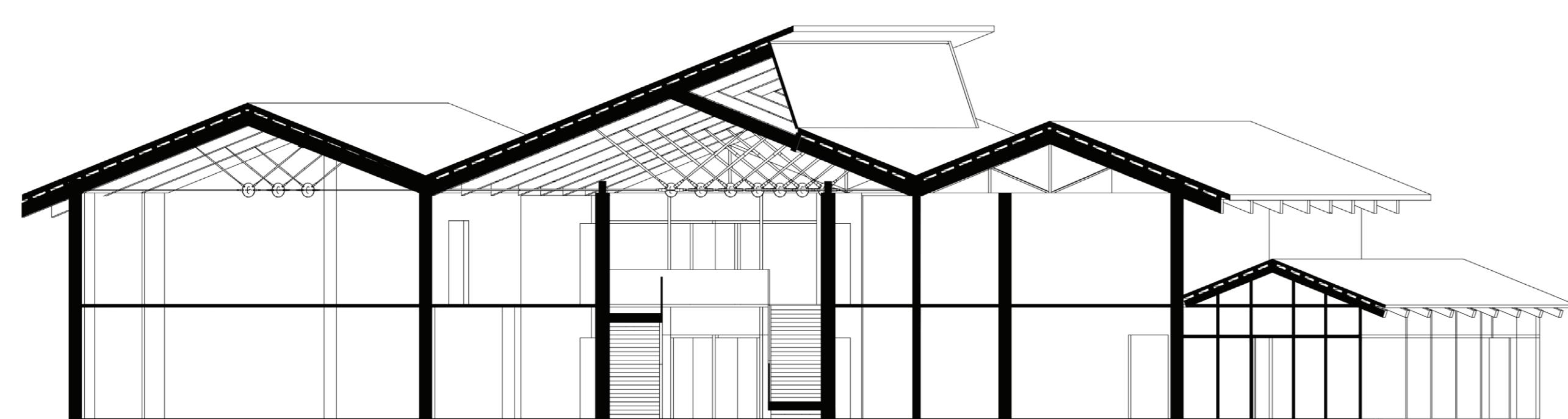
Functional Organization of Plan of the Service Hall



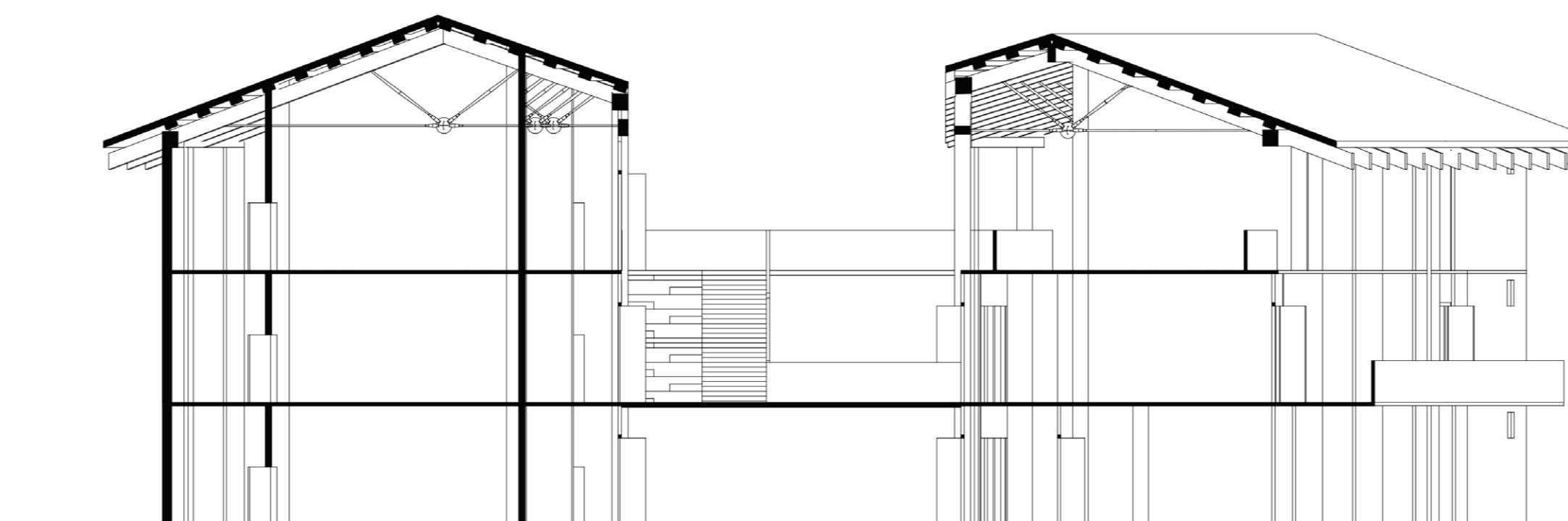
Functional Organization of Plan of the Factory Workshop



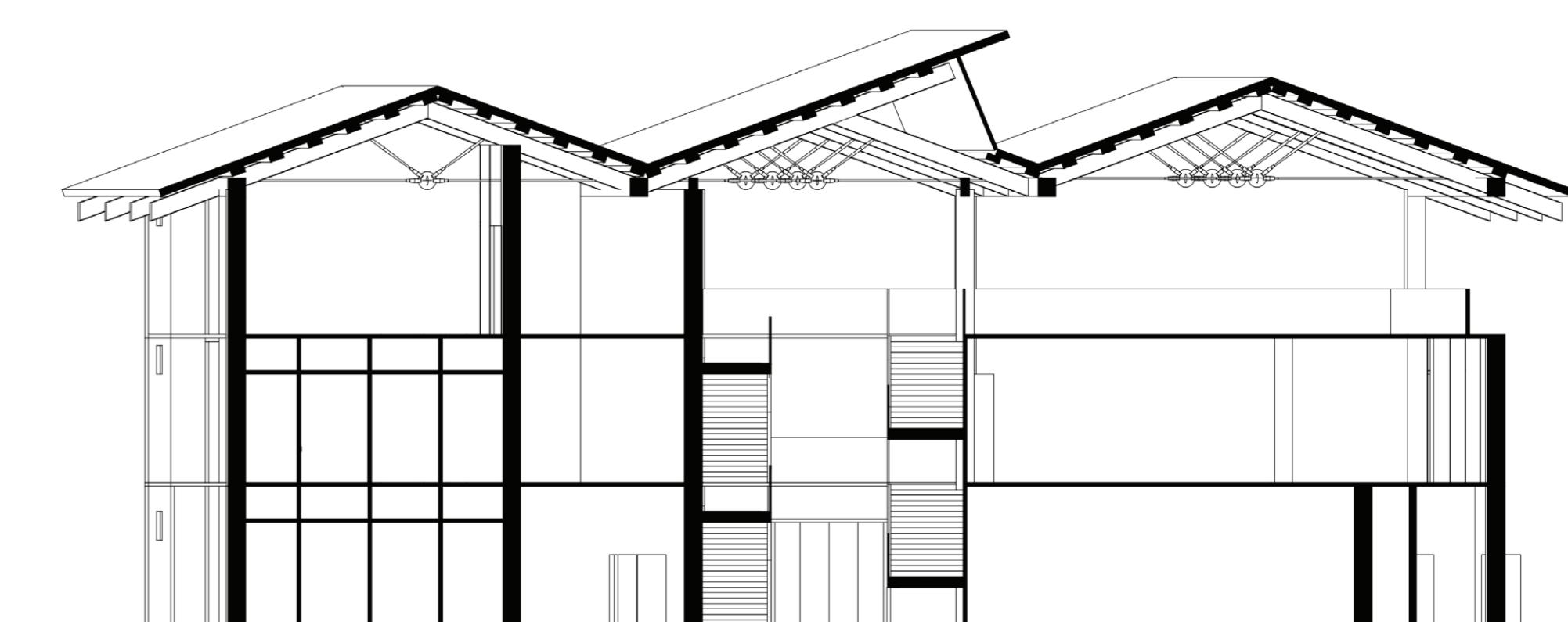
Functional Organization of Plan of the Office and Meeting Space



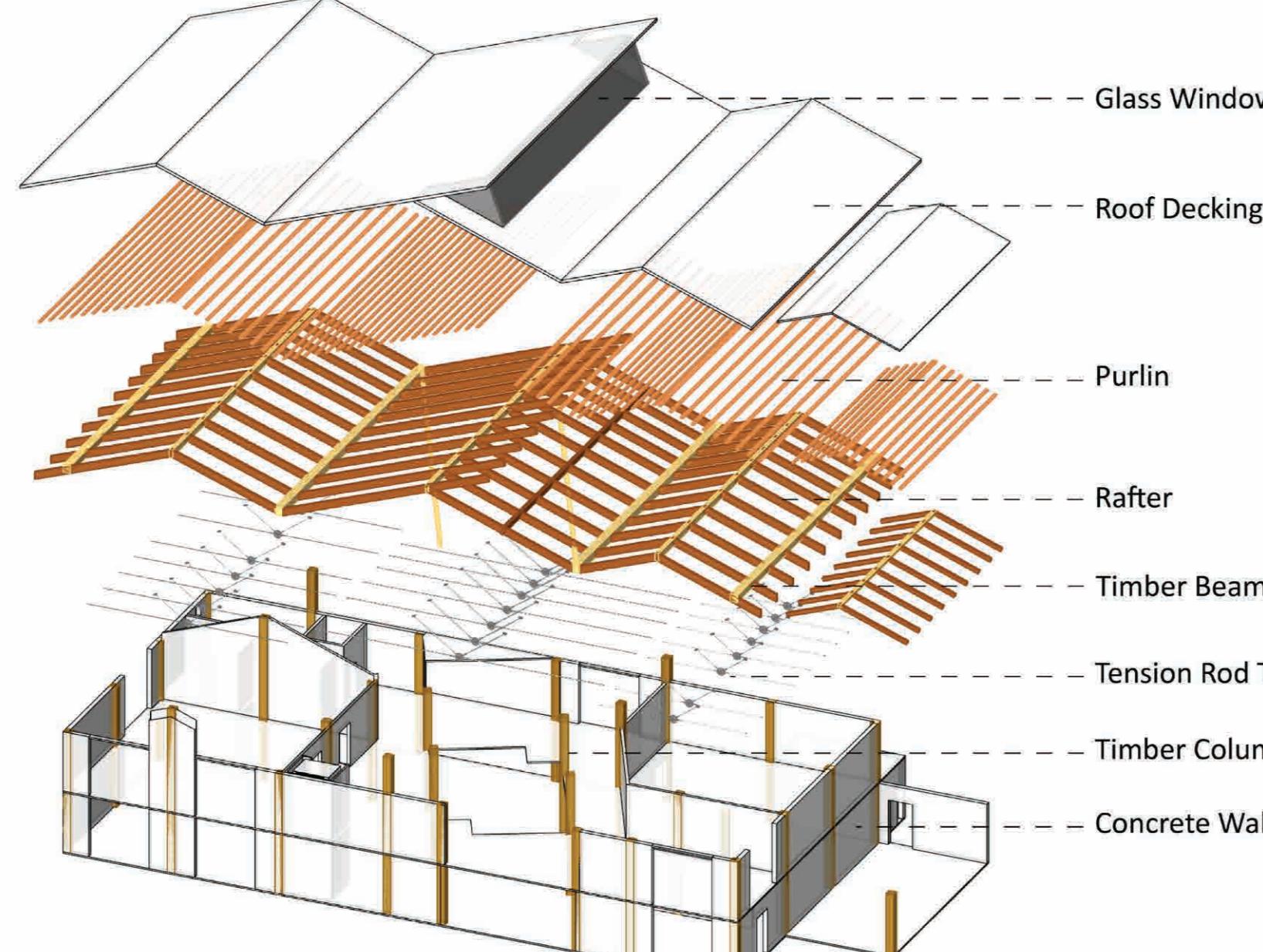
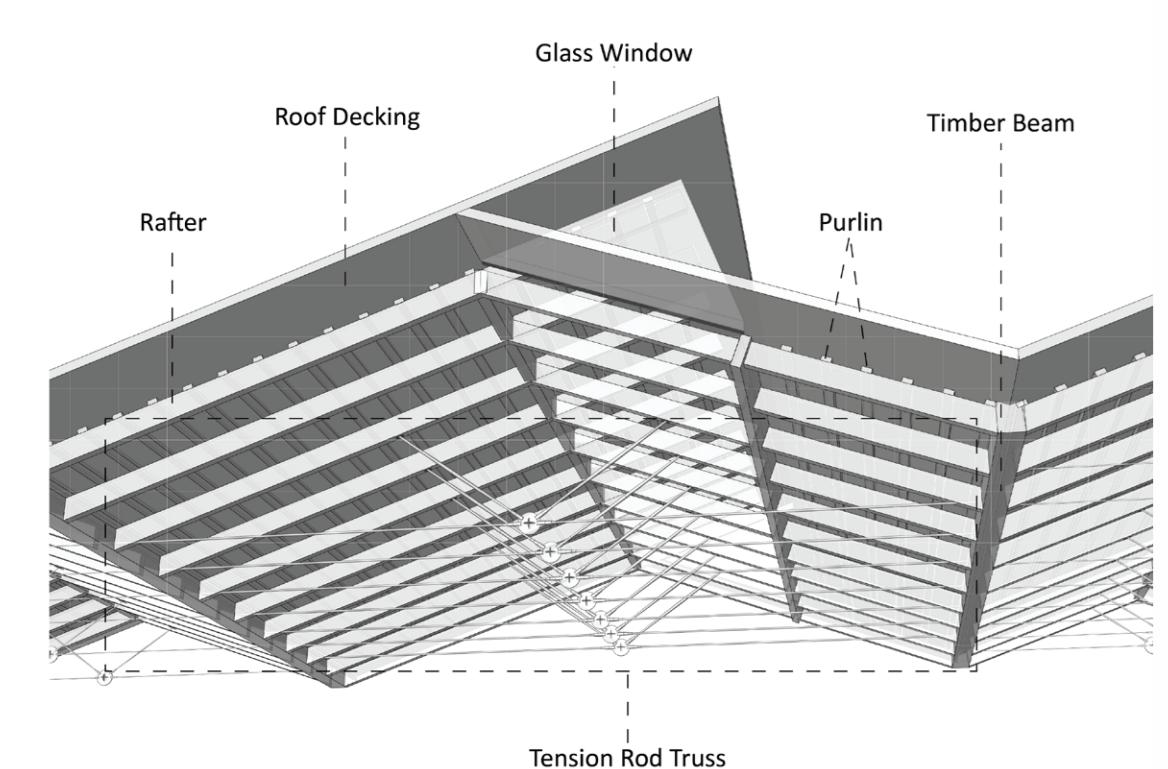
Section of the Service Hall



Section of the Factory Workshop



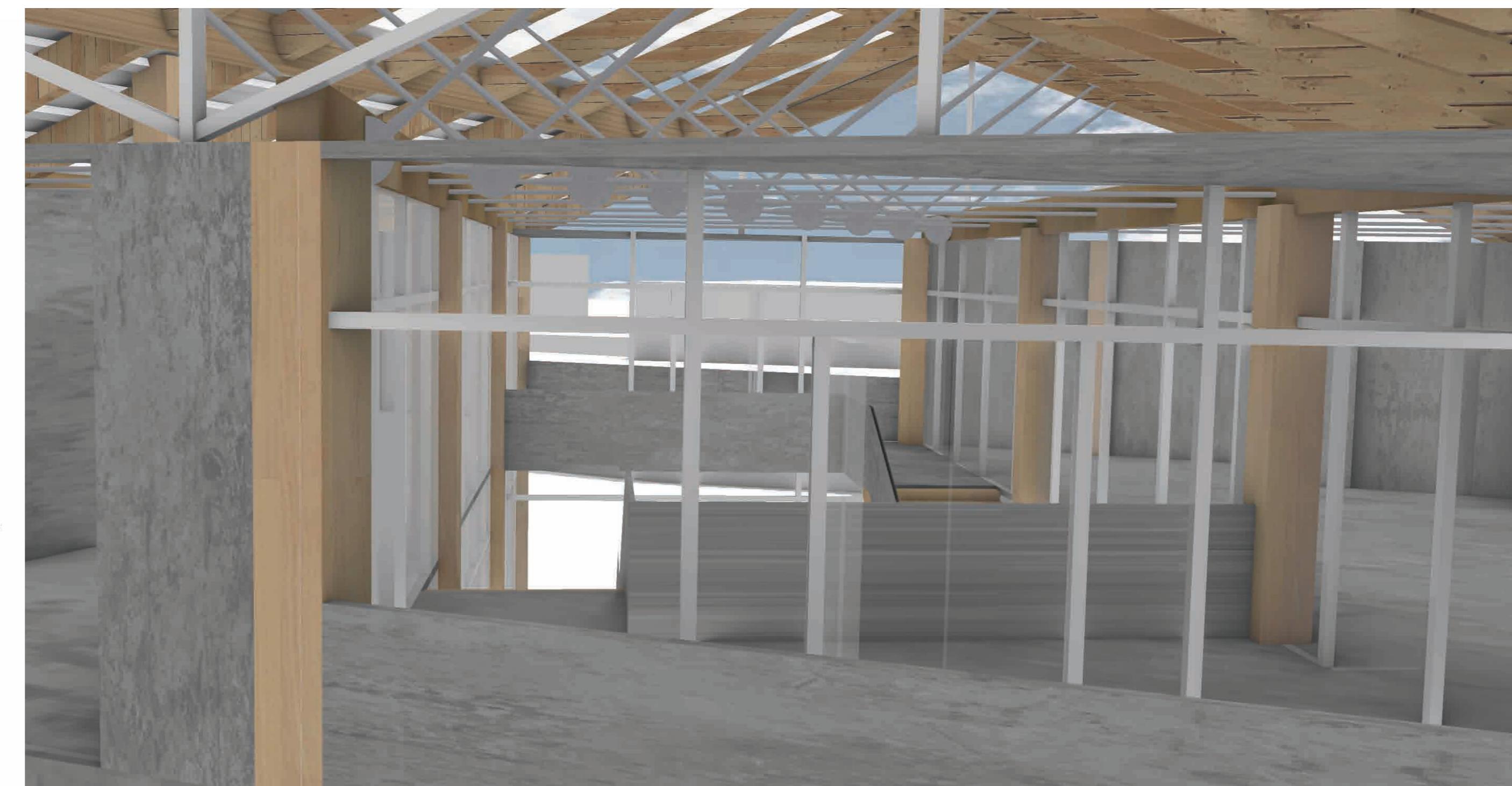
Section of the Office and Meeting Space



The structure of the roof learns from the original timber structure that is common in the village. It has the basic structure including the timber beam, rafter, purlin, and roof decking. Besides, apply the tension rod truss to allow more openness for the roof.

Structure Detail of the Roof

Structure of the Service Hall



Interior of the Service Hall



Exterior of the Factory Workshop