

# HERITAGE AND THE ORDERING RULES OF RAY CEMENT FACTORY'S ATMOSPHERE FOR AN ADAPTIVE REUSE PROJECT



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Approved by: Matteo Robiglio

## Methodology Flowchart: From Flâneuring to Sanjaghi Negari

### 1. ACKNOWLEDGEMENTS

This thesis has evolved from numerous conversations, observations, and moments of quiet reflection that took place within and on the grounds of Ray Cement Factory. First of all, I would like to thank Prof. Matteo Robiglio, who has supported me throughout this thesis and has helped shape it into what it is today. I would like to thank him for his insightful and clear thinking, as well as for keeping me on track and focused on that which is most essential; space, ambiance, and human presence within that space.

Also, I would like to thank people who have helped me comprehend Sanjaghi Negari, especially Sara Rahmati Sayeh, who has helped me formulate this research through her methodology and insight, and through which a doorway opened for me that taught me to learn, perceive, interpret, and express this 'atmosphere' of delicate rigor.

To all of you, members of my precious family and friends, thank you so much for being that one constant in this crazy world that holds me down and grounds me through it all. Your help has made this journey possible every step of the way.

And finally, I would like to thank, personally, the Ray Cement Factory itself; its silence, its dust, its light, its echoes, its memory. This thesis is, above all, a gesture of listening.

Thank you.

### 2. ABSTRACT

#### Heritage and the Ordering Rules of Ray Cement Factory's Atmosphere for an Adaptive Re-use Project

Each space is recognized by its distinct atmosphere. The aura, vibes and the whole body, together which are recognized as a unique atmosphere. Comprehensive sensory perceptions of the atmosphere would enable us to process it thoroughly with our mental abilities (memory, remembrance, and thinking capabilities). The investigation which in turn, prepares us properly to discover and understand the specific space and the distinct atmosphere.

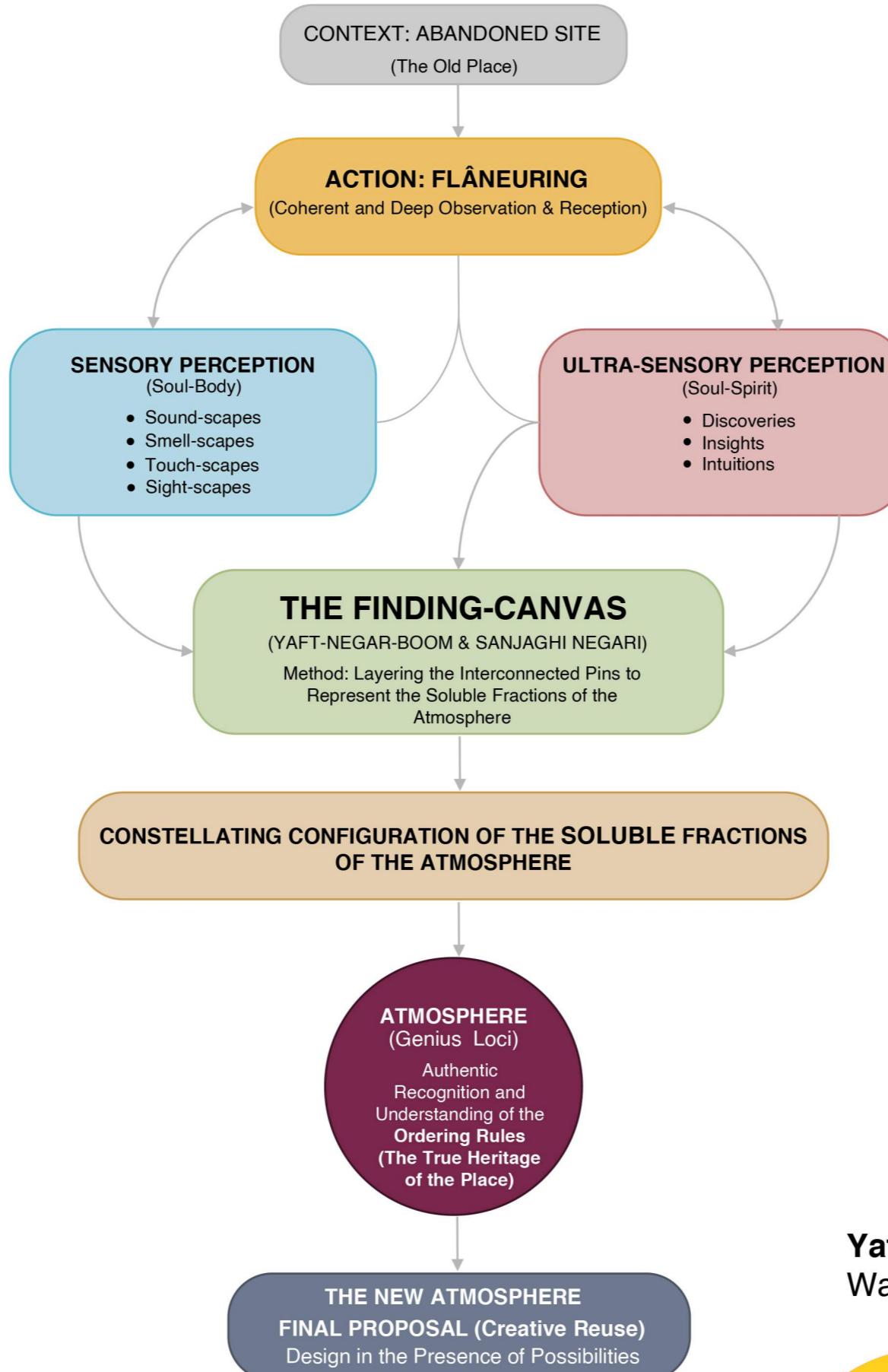
We understand the atmosphere with our 5 senses. The atmosphere is perceived through our senses by practicing flâneuring and being present in the moment. The practice by which we build the capability to understand and represent the atmosphere as it is.

The "Sanjaghi Negari" method "سنجاق نگاری" - meaning evaluation of atmosphere – invented by Sara Rahmati Sayeh is "a means to communicate, a method to organize and combine findings in new rearrangements, and guide decisions for creative design in the presence of possibilities".

**Based on the theoretical foundations of this thesis, heritage is considered to be the ordering rules of atmosphere.** Understanding and applying these ordering rules enable us to adequately (authentically, genuinely, and sufficiently) address any request for the transformation of the current atmosphere into a new atmosphere. As a result, the work of this thesis concludes with discovering, understanding, and presenting these rules.

From the author's standpoint, the body is ordered by aura and atmosphere. So, when we know the ordering rules that serve as the connective way between the current atmosphere and new atmospheres, we can easily understand the arrangement of new possible bodies. Sanjaghi negari is a delicate means through which, discovering and understanding the atmosphere and thereby the ordering rules of the atmosphere are achieved. The insight and understanding which ultimately empowers us to properly reach the purpose of adaptive reuse.

Keywords: Heritage, The Ordering Rules, Ray Cement Factory, Atmosphere, Adaptive Reuse, Senses, Flâneuring, Being present, Represent, Sanjaghi Negari, سنجاق نگاری, Transformation



arrange the graphic

### TABLE OF CONTENTS

1. Title Page
2. Acknowledgements
3. Abstract

#### PART I - INTRODUCTION & CURRENT CONDITION

6. What is Rey Cement Factory?
7. Methodology

#### PART II - INTERVENTION STRATEGY & PROJECT DEVELOPMENT

- Flâneuring around the factory
- Flâneuring inside of the factory
- Flâneuring inside of the factory and south side of the factory
- Flâneuring for sound-scape
- Sound-scape
- Flâneuring for smell-scape
- Sound-scape
- Flâneuring for touch-scape
- Sound-scape
- Flâneuring for sight-scape
- Sound-scape
- Flâneuring for visual-scape
- Sound-scape
- Flâneuring for light-scape
- Light-scape
- Sanjaghi Negari
- Gens
- Senkh
- Atmosphere
- ordering rules
- Sanjaghi Negari
- Gens
- Senkh
- Atmosphere

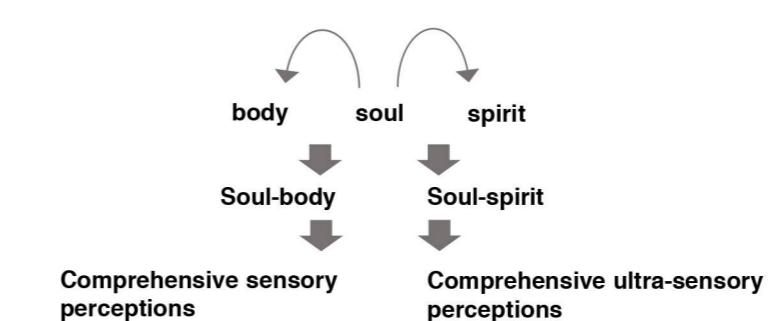
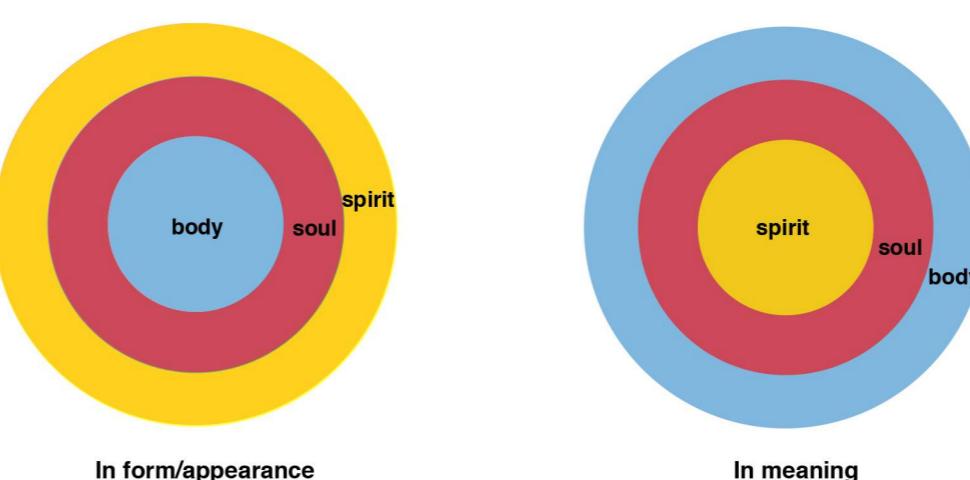
#### PART III - A SUGGESTED ALTERNATIVE

- Flâneuring for the stories of the factory
- Flâneuring of the suggested alternative
- 3D Cuts
- Ground lelev plan
- Facades and sections

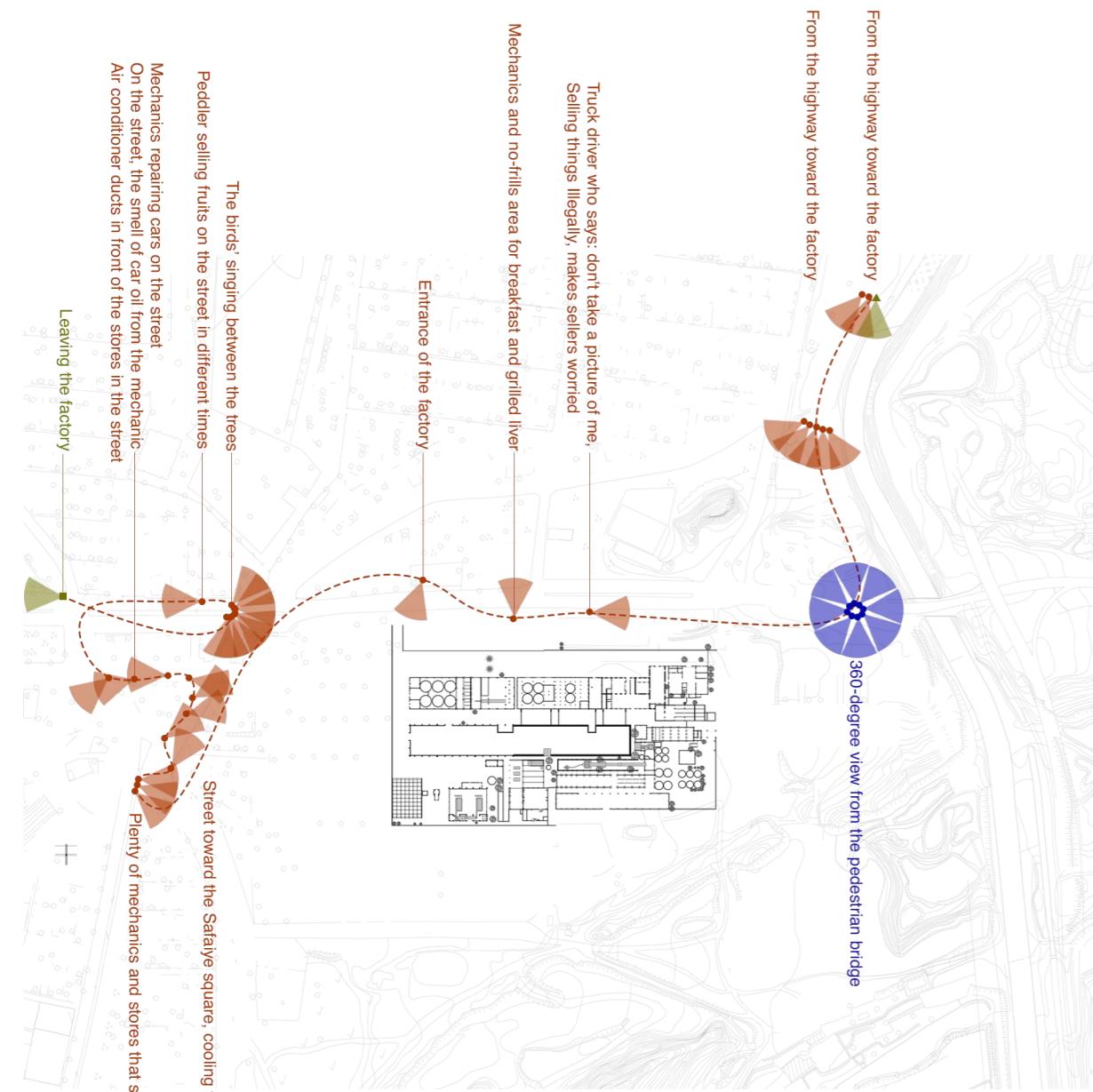
#### PART IV - A SUGGESTED ALTERNATIVE

19. Bibliography
20. Appendices

**Yaft** Simply Means Perception, and this is the Way through which We Perceive the World



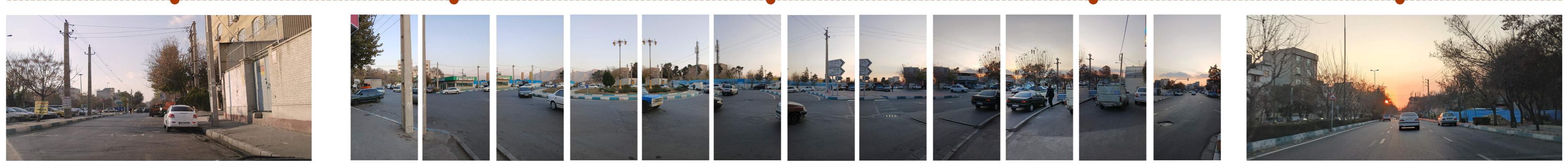
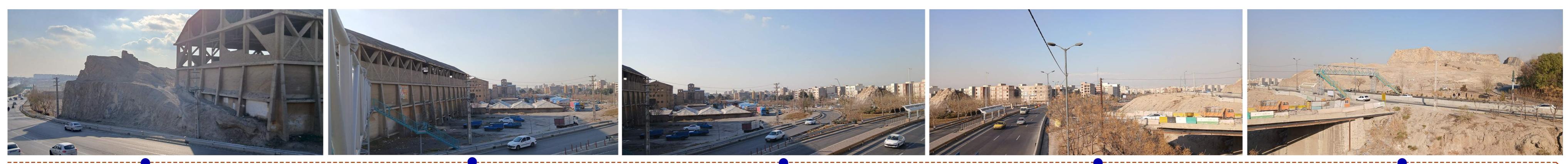
## FLÂNEURING FOR SOUND PERCEPTION



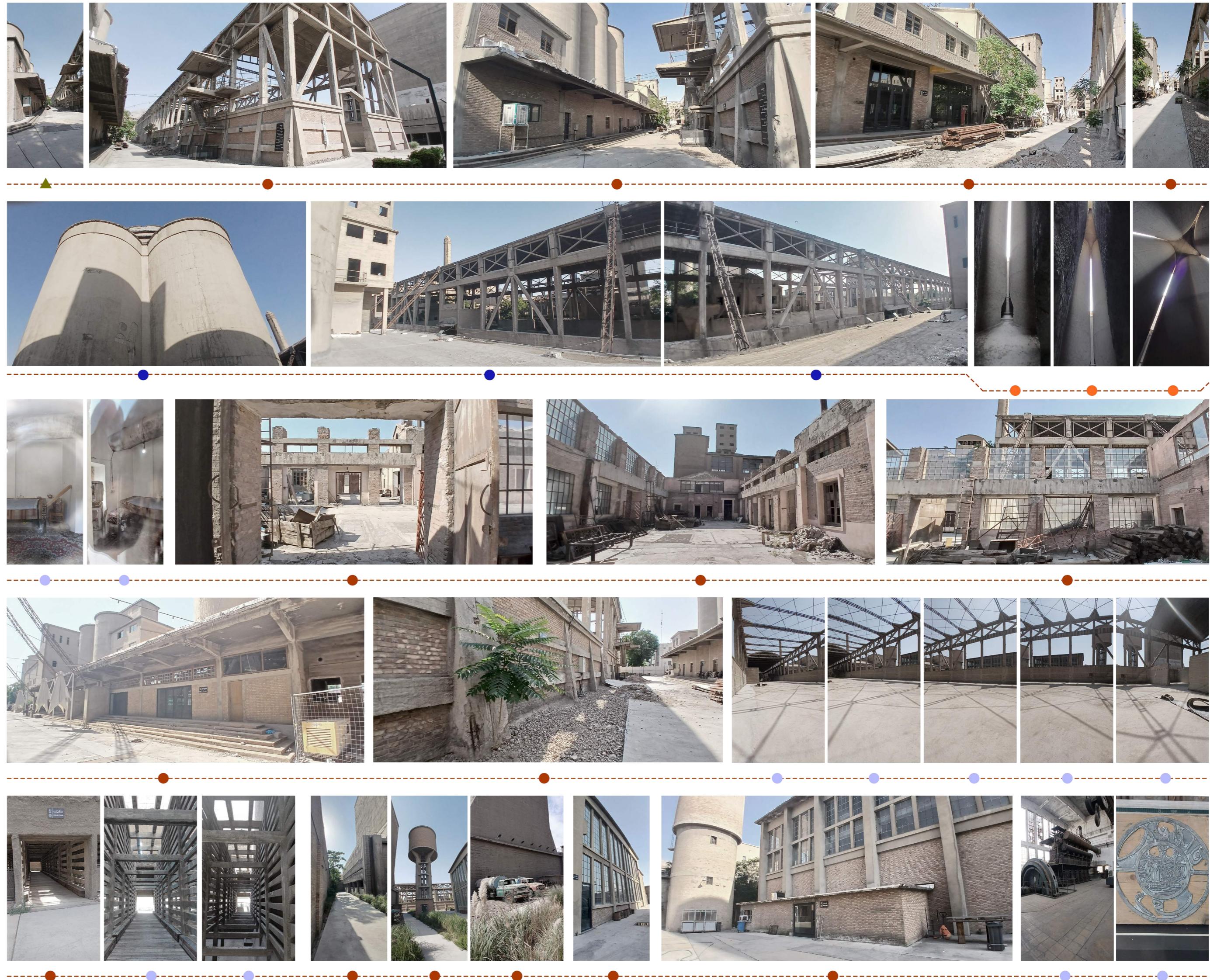
**LEGEND**

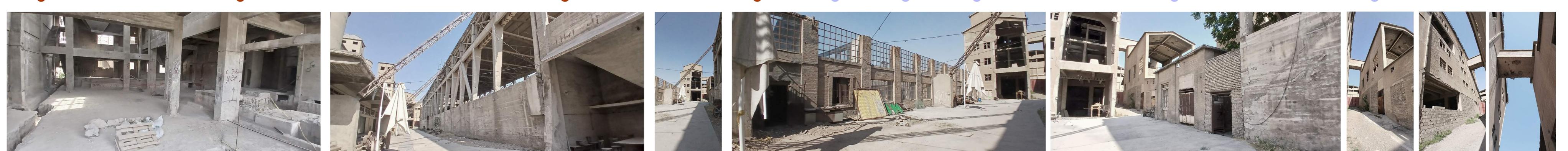
- Flâneuring path
- ▲ Start point
- End point
- View from upper levels
- View from ground level
- View from underground level



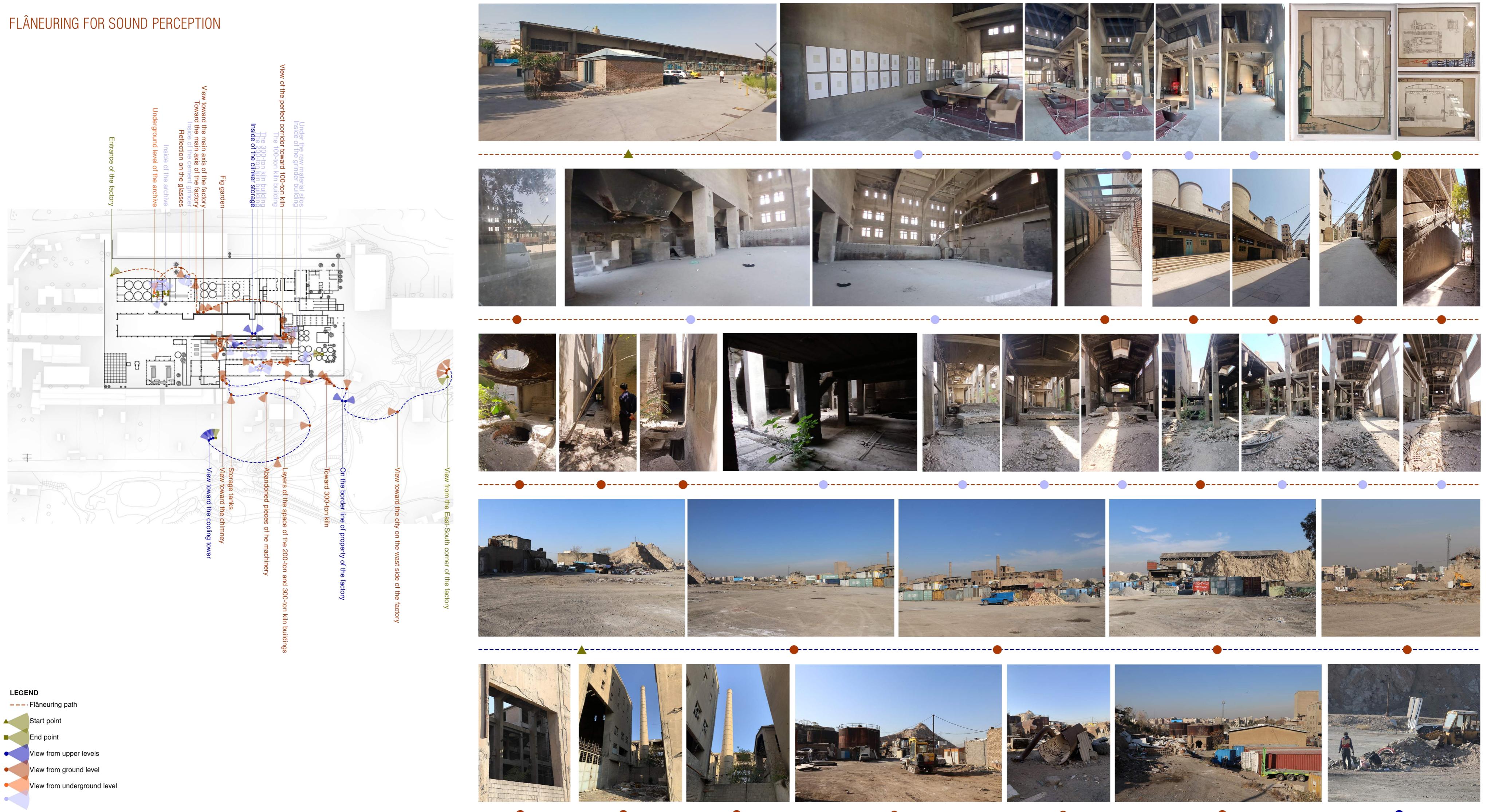


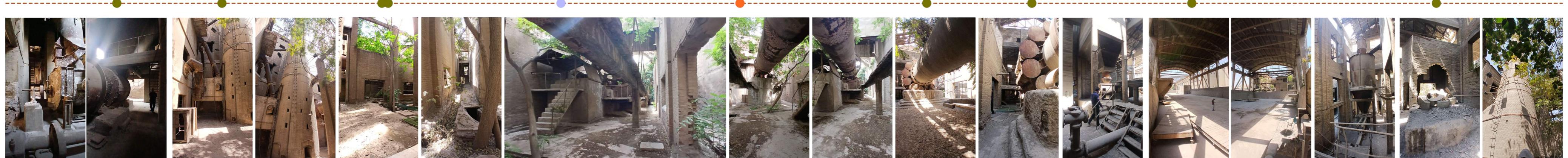
## FLÂNEURING FOR SOUND PERCEPTION



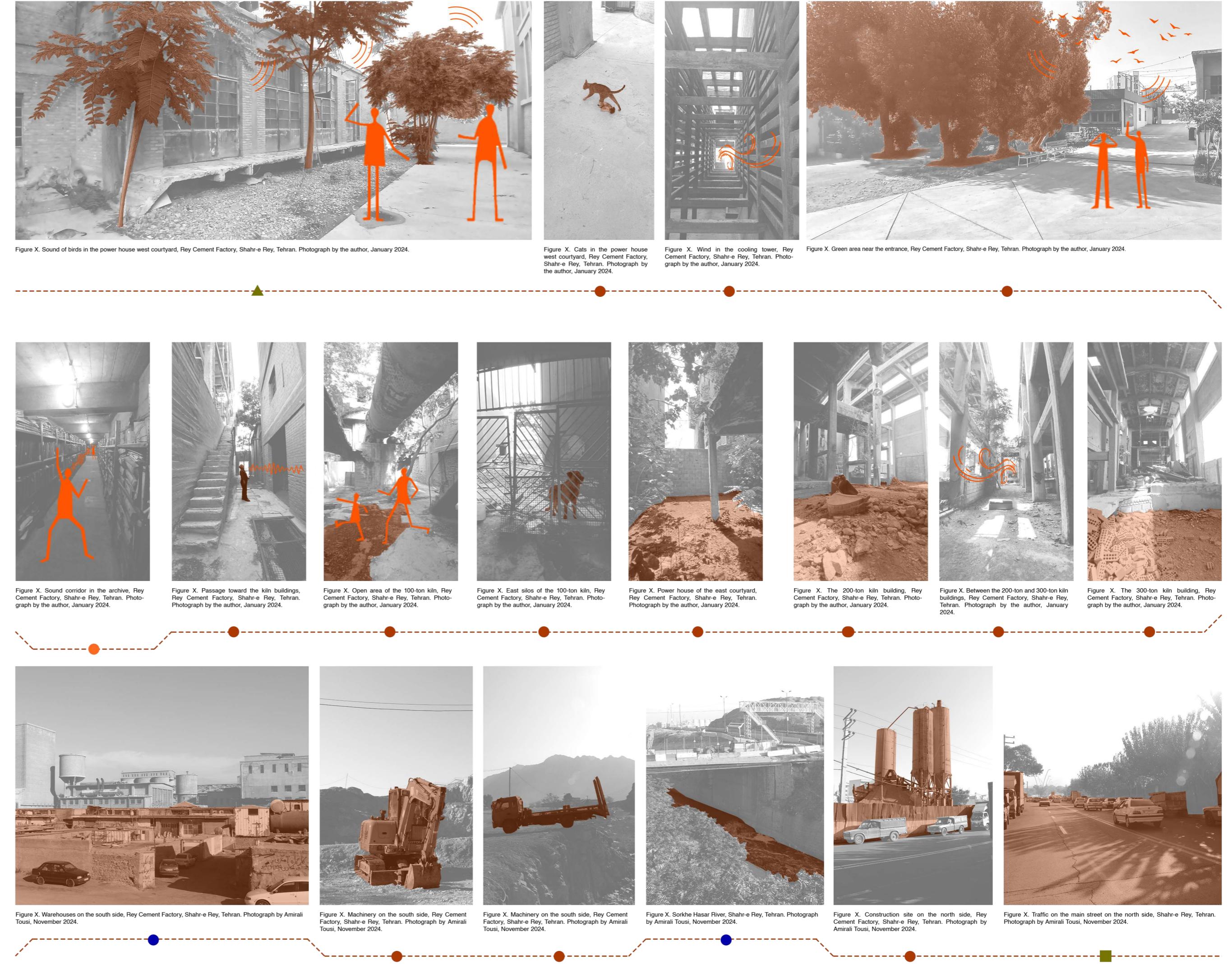
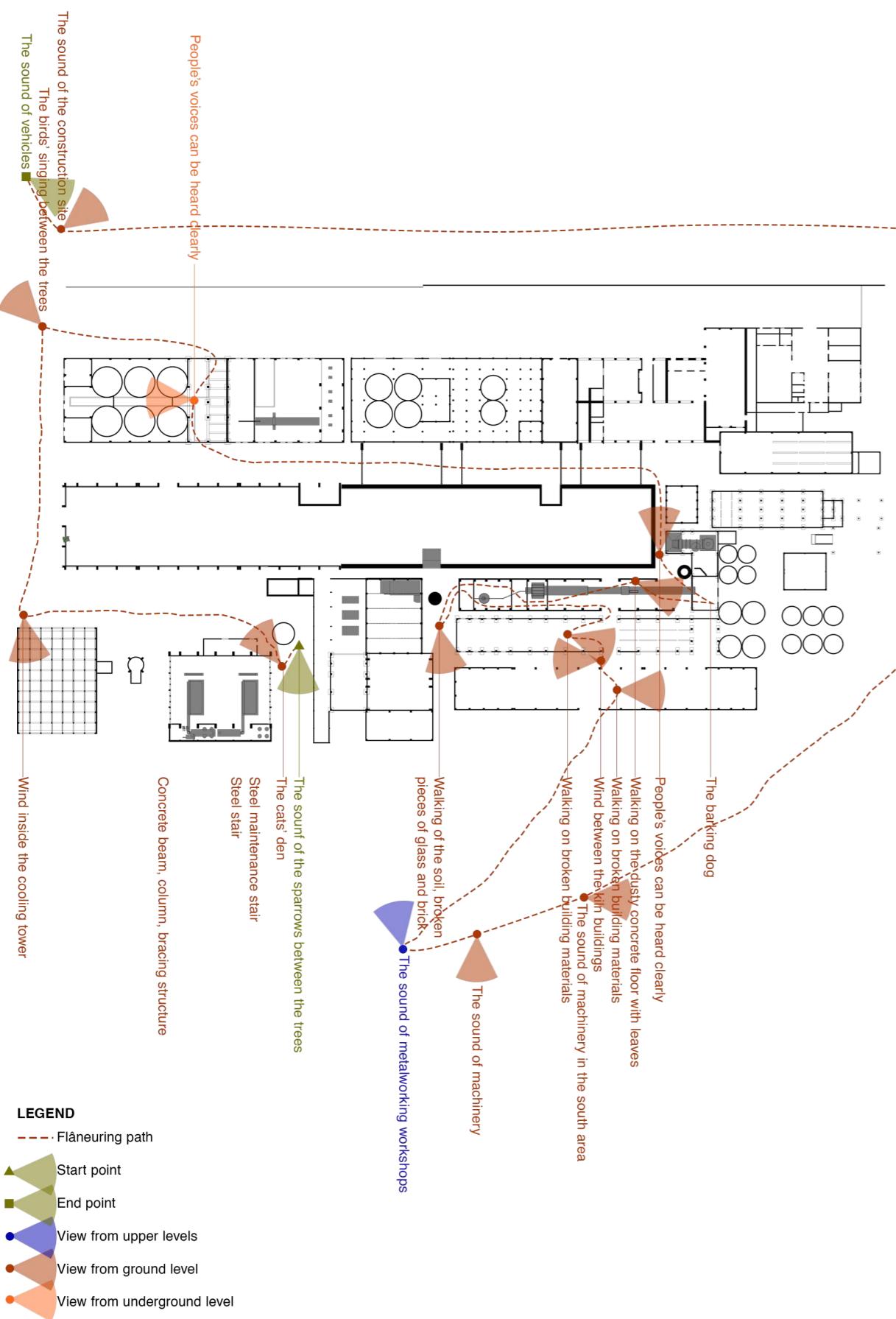


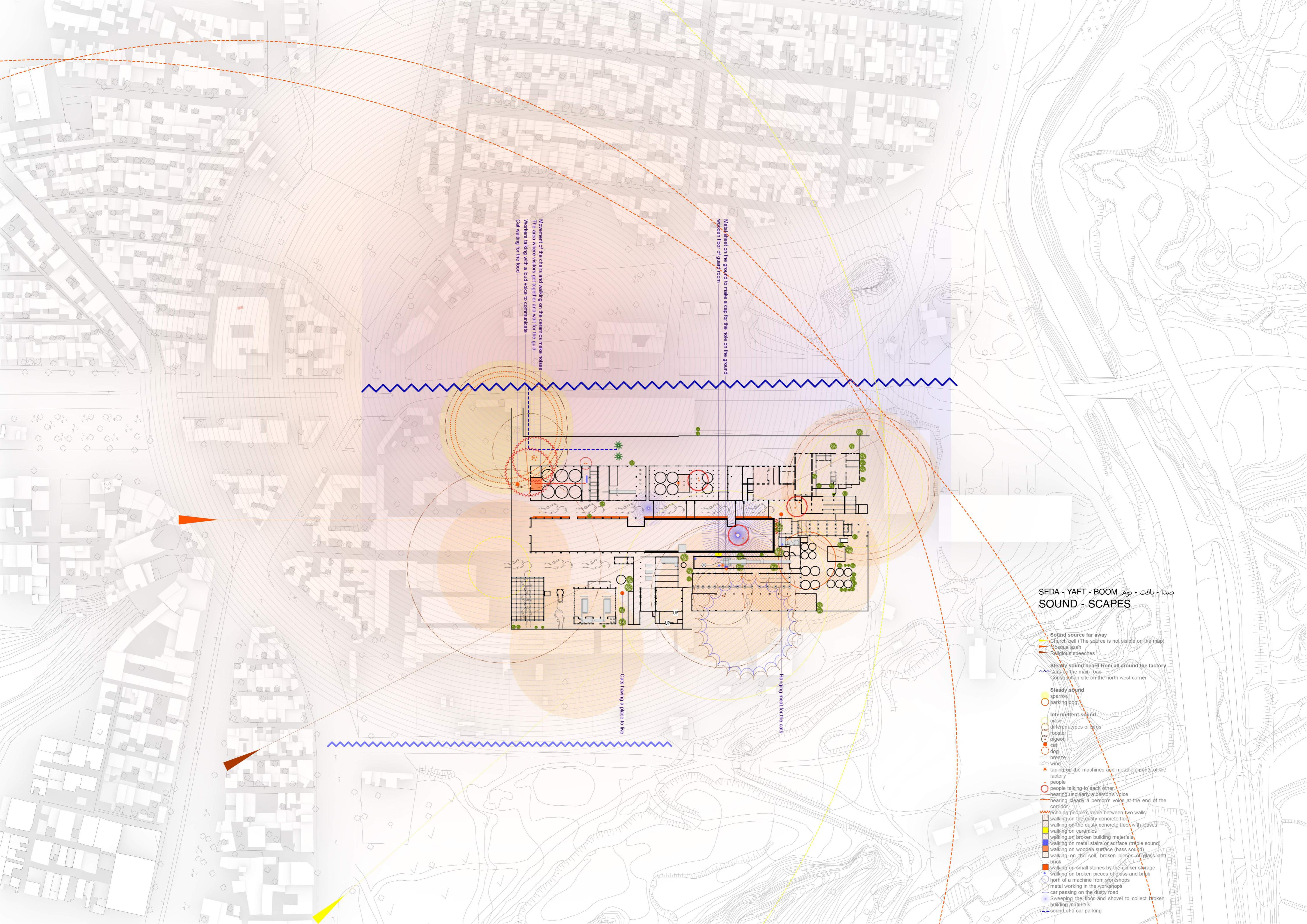
## FLÂNEURING FOR SOUND PERCEPTION





## FLÂNEURING FOR SOUND - SCAPE





## FLÂNEURING FOR VISUAL - SCAPE

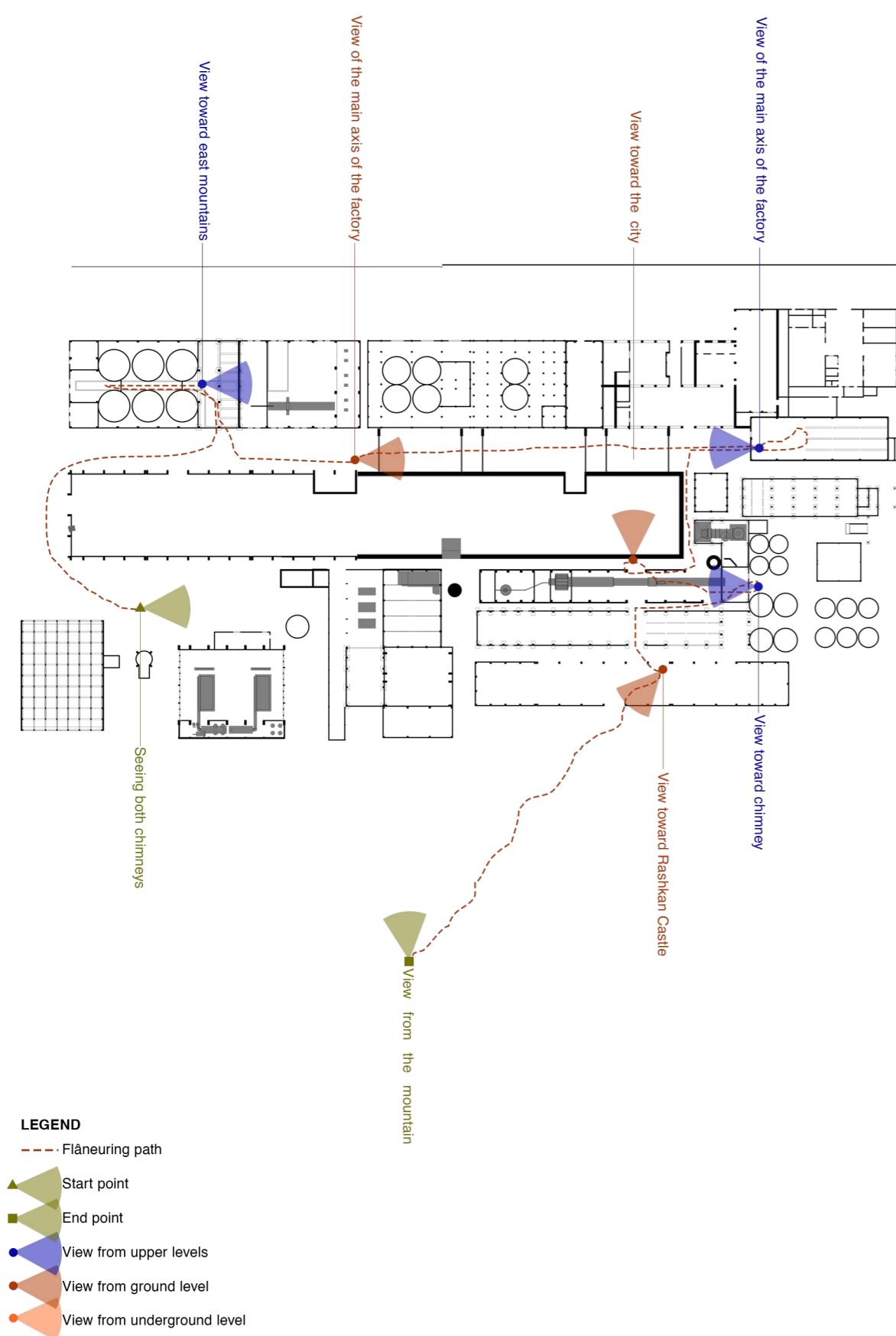


Figure X. View of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Moslem Zare, December 2022.



Figure X. Interior view of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph published by BORNA News. Accessed December 16, 2025. <https://borna.news>



Figure X. View of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Seyyed Bahaein Banitaba, published by Mashregh News, April 23, 2018. <https://cdn.mashreghnews.ir>

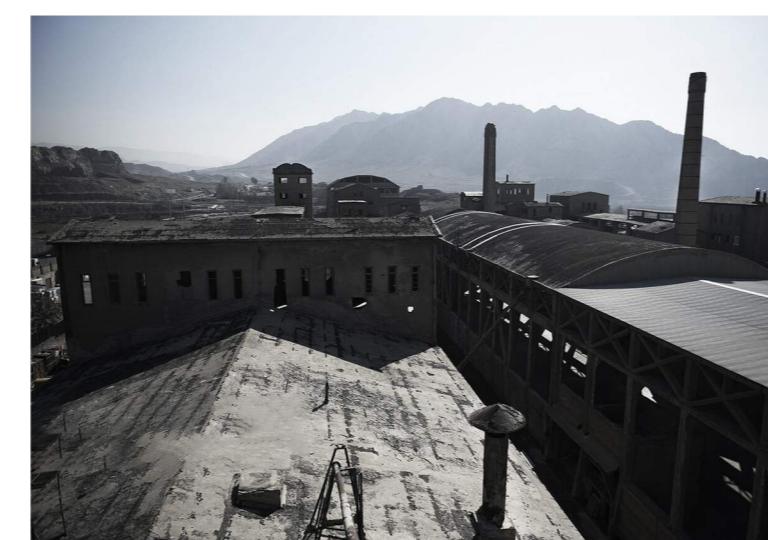


Figure X. Rooftop view of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph published by Mehr News Agency, February 27, 2022. <https://media.mehrnews.com>

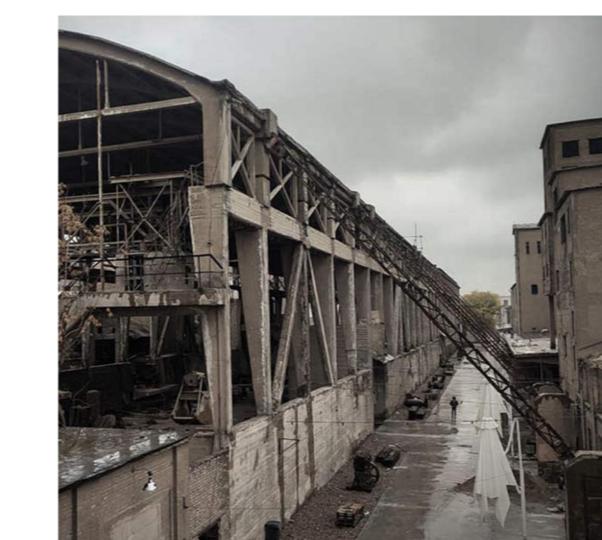


Figure X. Interior view of the Rey Cement Factory, Shahr-e Rey, Tehran. Image sourced from Di-bats.com, accessed December 2024.

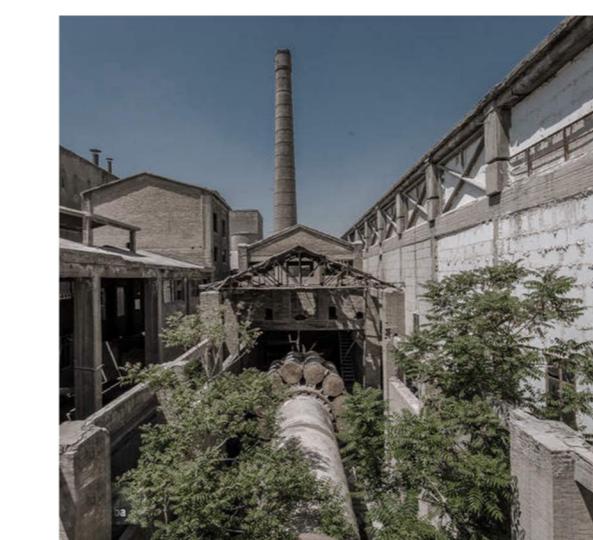


Figure X. View of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Seyyed Bahaein Banitaba, published by Mizan News Agency, 2018. <https://cdn.asiran.com>

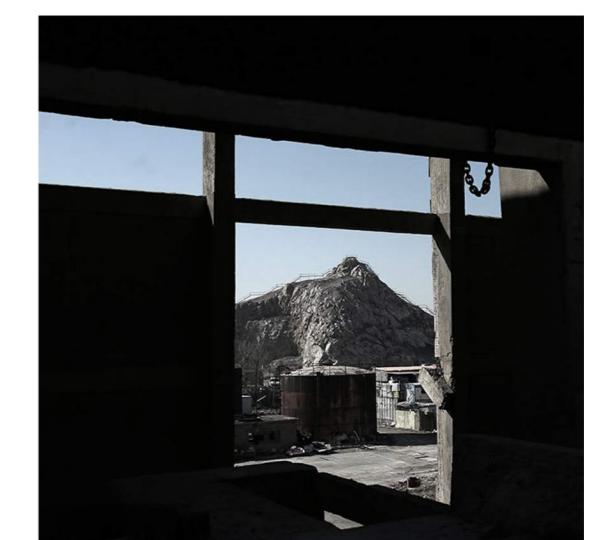
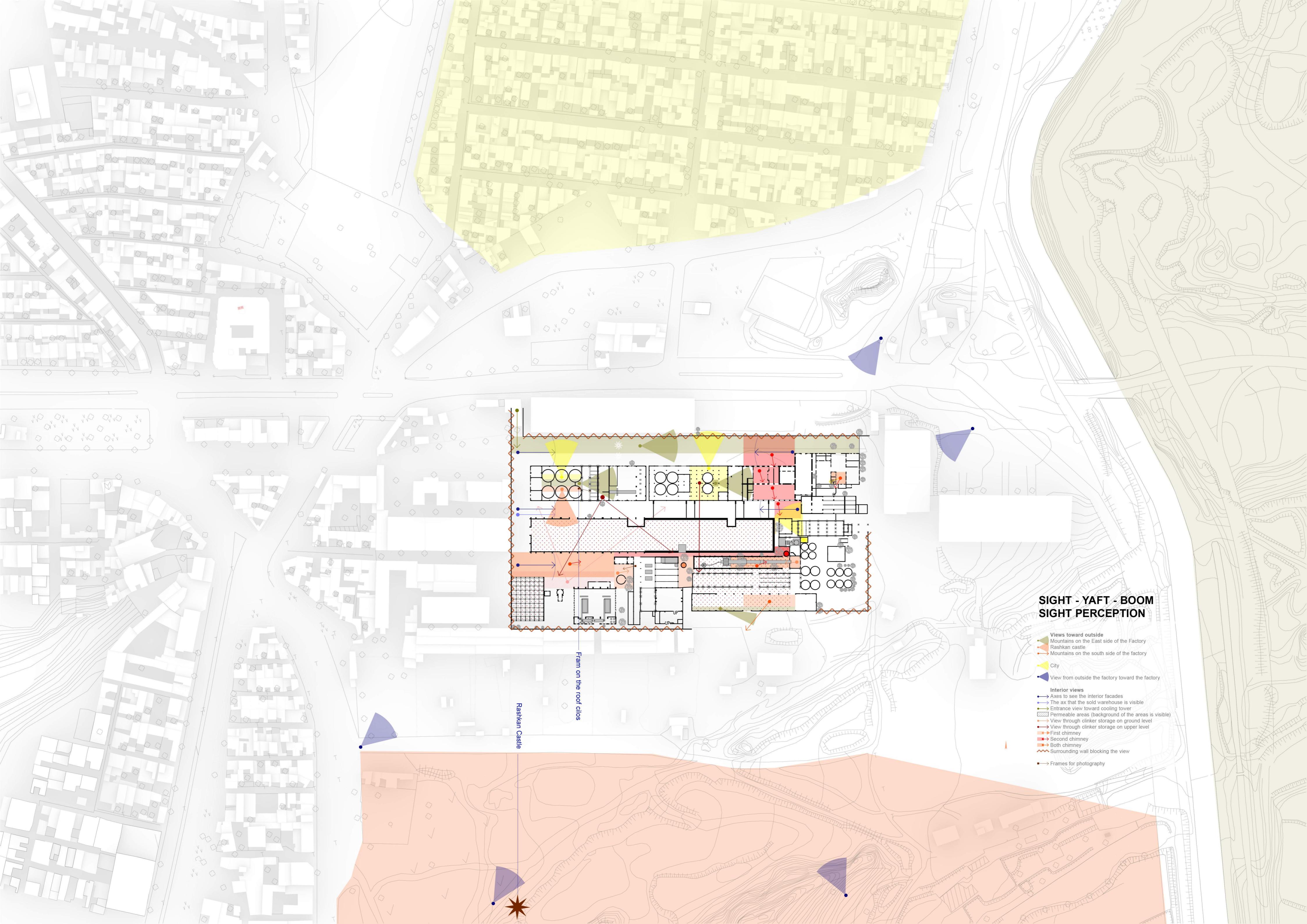


Figure X. View of the Rey Cement Factory and nearby quarry, Shahr-e Rey, Tehran. Photograph published by BORNA News, 2022. <https://borna.news>



Figure X. Aerial view of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph published by ISNA (Iranian Students' News Agency), April 9, 2018. <https://cdn.isna.ir>



## FLÂNEURING FOR LAND - SCAPE

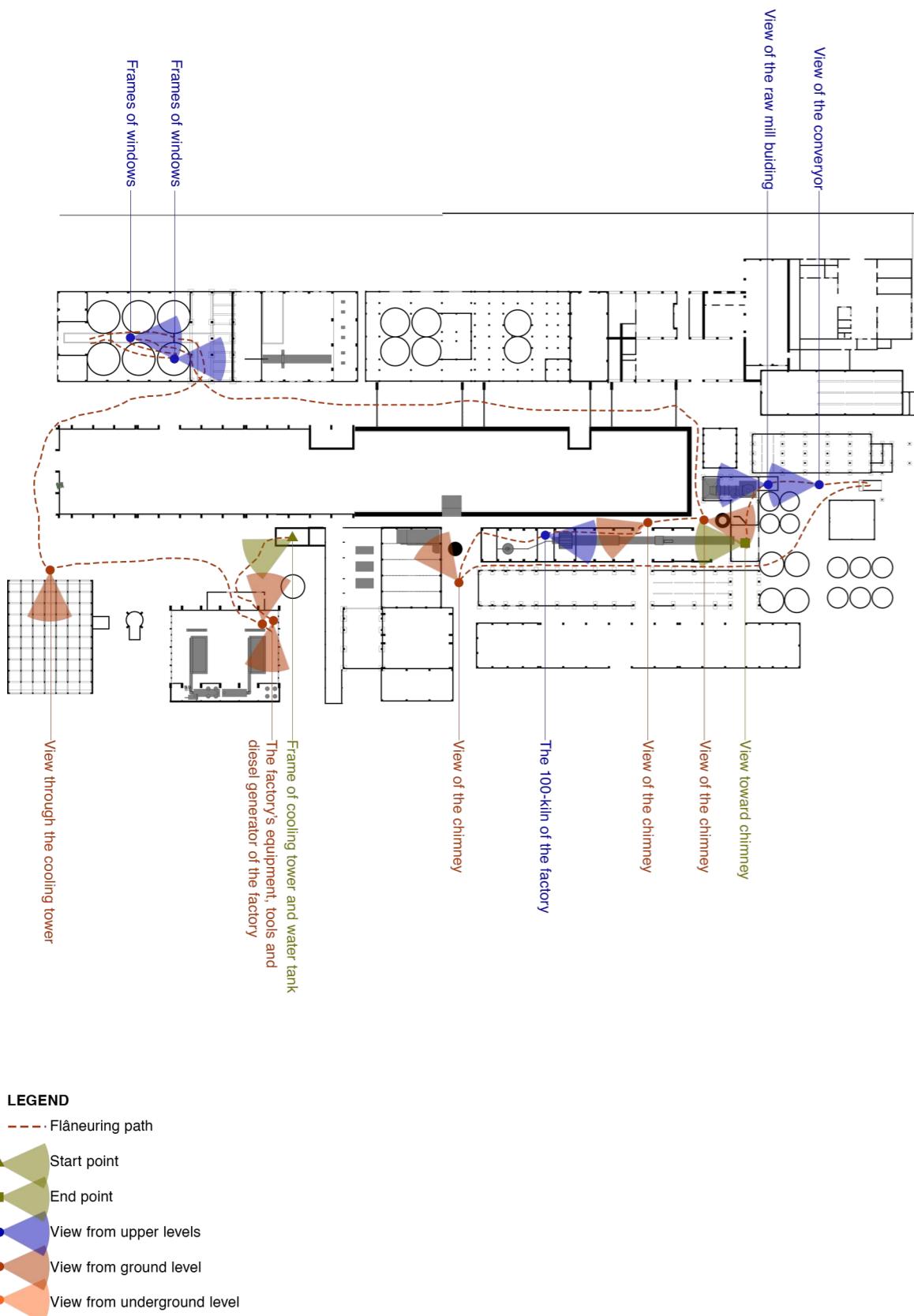


Figure X. View from power house and turbine hall of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Mostafa Roudaki, published by Mizan News Agency, n.d. <https://mizanonline.ir>



Figure X. Diesel Generator Building of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Hadi Zand, published by ISNA (Iranian Students' News Agency), 2022. <https://cdn1.ruydadiran.com>



Figure X. Tools of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Amirali Tousi, November 2024.



Figure X. Interior corridor of the Rey Cement Factory, Shahr-e Rey, Tehran. Image published by Dibats.com, n.d. <https://dibats.com>, accessed December 2024.



Figure X. The 300-ton Silos of Rey Cement Factory, Shahr-e Rey, Tehran. Photograph published by ISNA (Iranian Students' News Agency), February 28, 2022. <https://cdn.isna.ir>

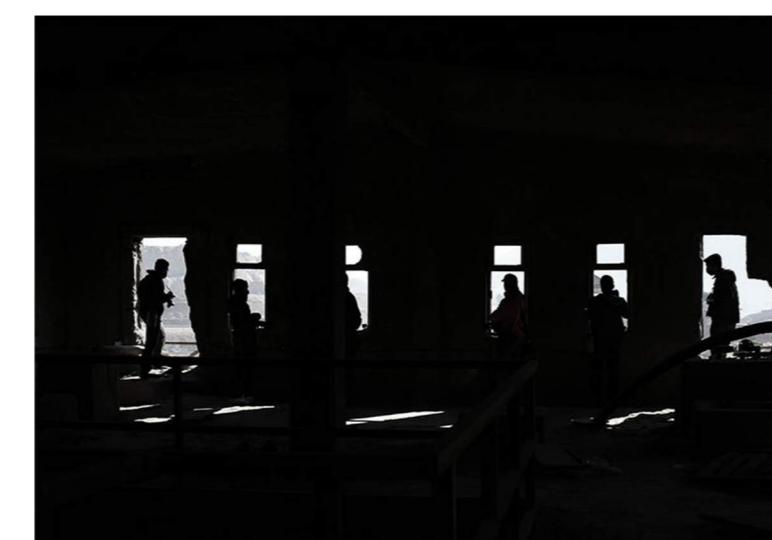


Figure X. Above 300-ton Cement Silos of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph published by BORNA News, n.d. <https://cdn.borna.news>

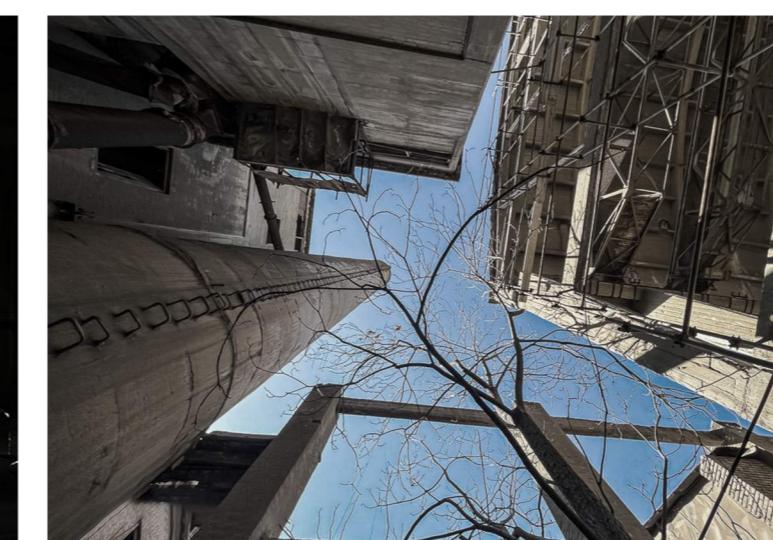


Figure X. The Passage toward 100-ton Kiln of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Mostafa Roudaki, published by Mizan News Agency, n.d. <https://www.bultannews.com>



Figure X. The Chimney of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Moslem Zare, December 2022.



Figure X. Machinery and stacked kiln sections inside the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Amin Ahouei, published by Tasnim News Agency, February 24, 2022. <https://newsmedia.tasnimnews.com/>



Figure X. View of The Chimney of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Seyyed Bahaein Banitaba, published by Mizan News Agency, n.d. <https://mizanonline.ir>



Figure X. Conveyer corridor inside the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Shayan Mehrabi, published by Tehran Picture Agency, 2021. <https://www.tehranpicture.ir/>



Figure X. Conveyer corridor inside the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Shayan Mehrabi, published by Tehran Picture Agency, 2021. <https://www.tehranpicture.ir/>



Figure X. View from Raw Mill Building of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Shayan Mehrabi, published by Tehran Picture Agency, 2021. <https://www.tehranpicture.ir/>



دید - یافت - بوم  
LAND - SCAPE  
ANGLE OF PHOTOS TAKEN BY PEOPLE

Unaccessible parts of the building to the public

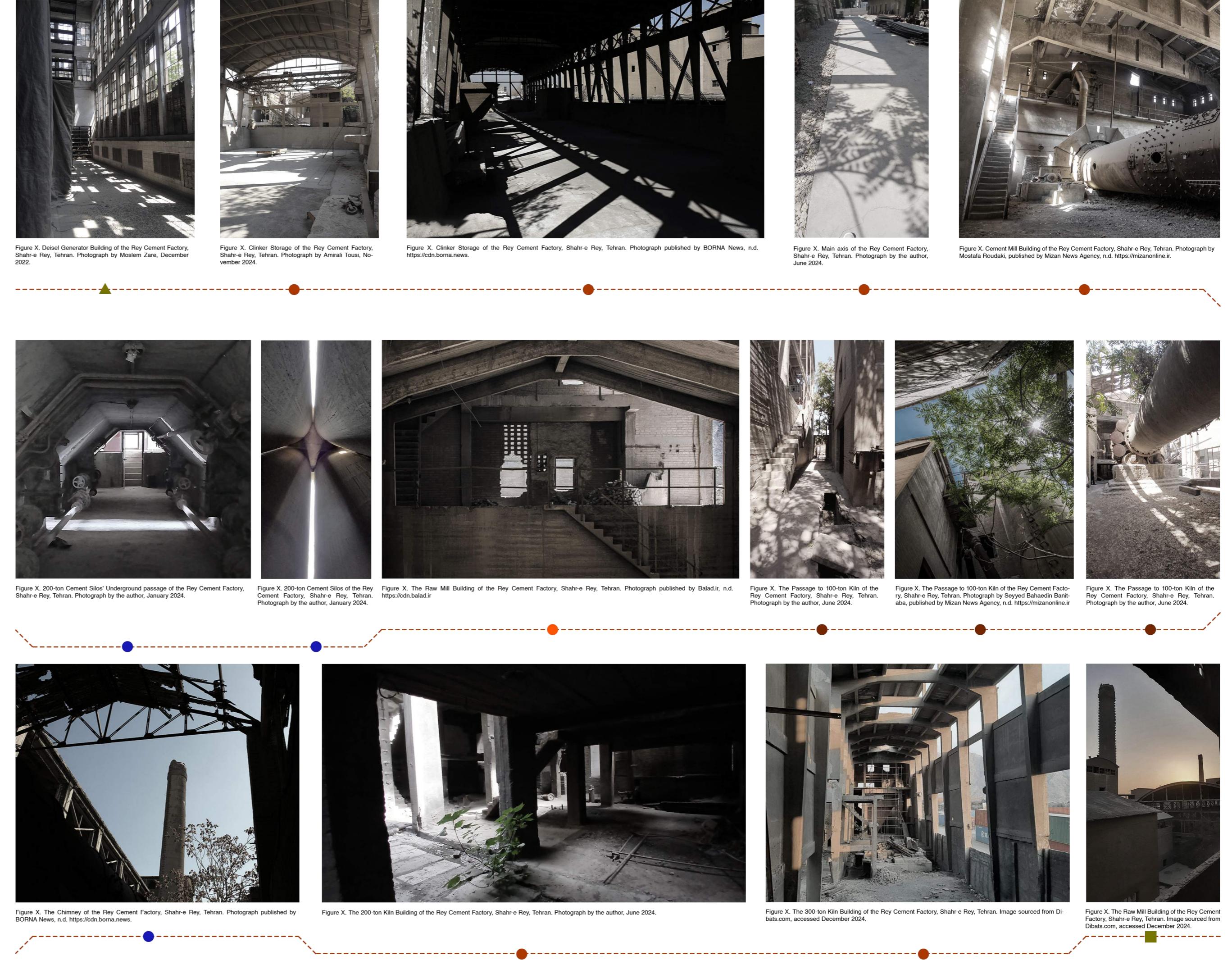
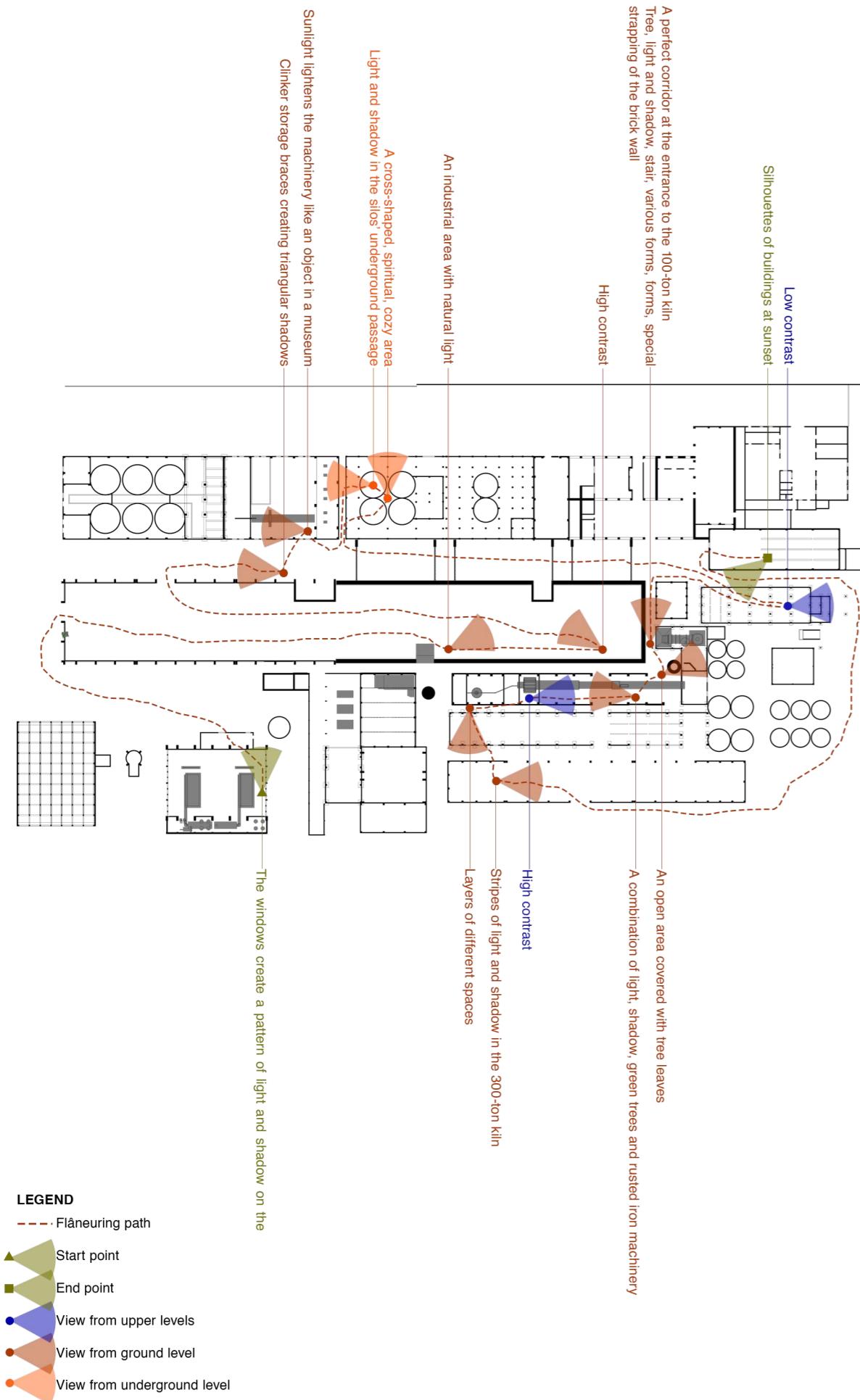
**Ground level**

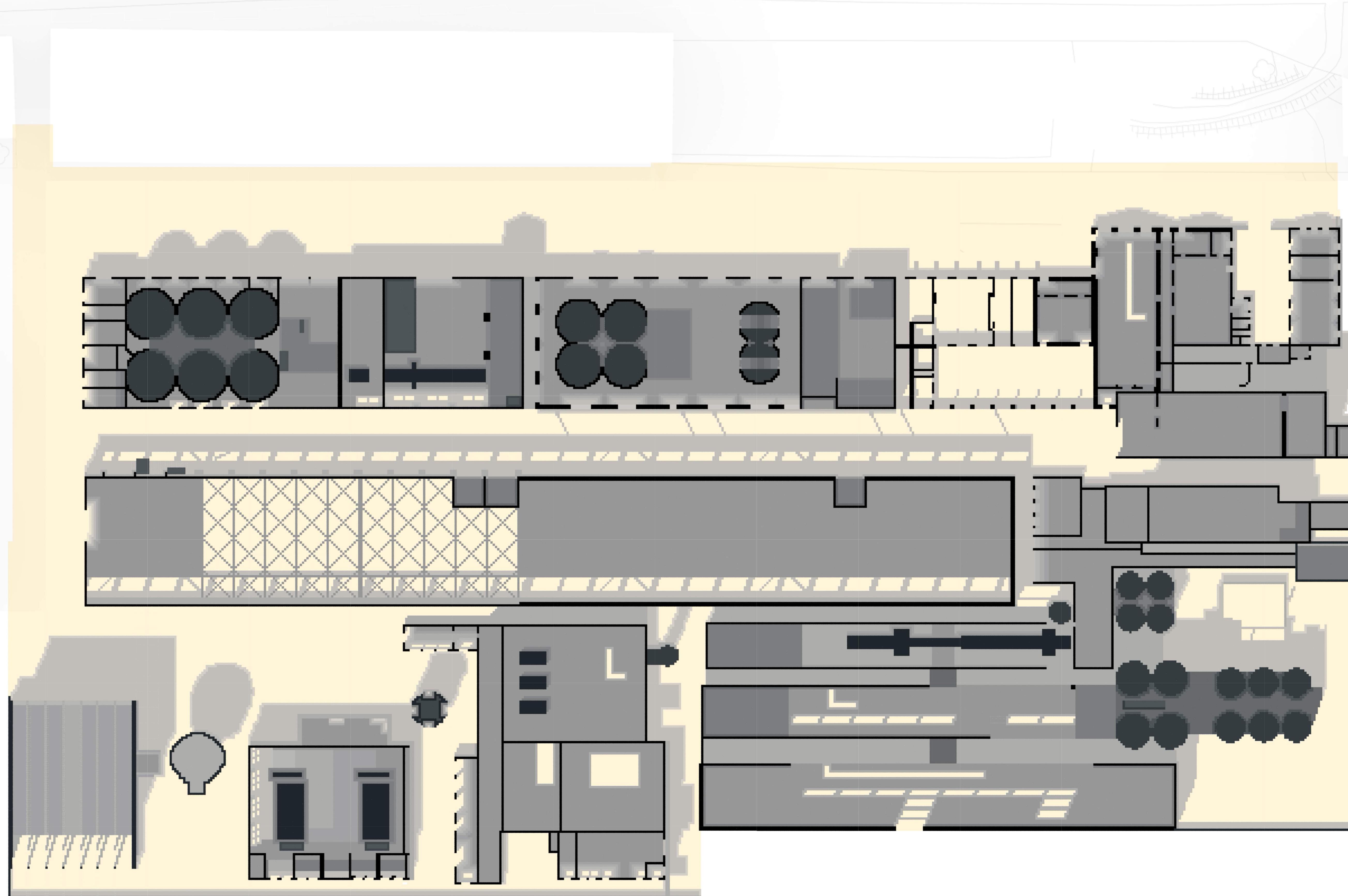
- person on the knee
- person standing looking parallel to ground surface
- person looking upward
- person looking downward
- photo of fixed machinery
- photo of moveable furniture, equipment, old cars of the factory

**Upper level**

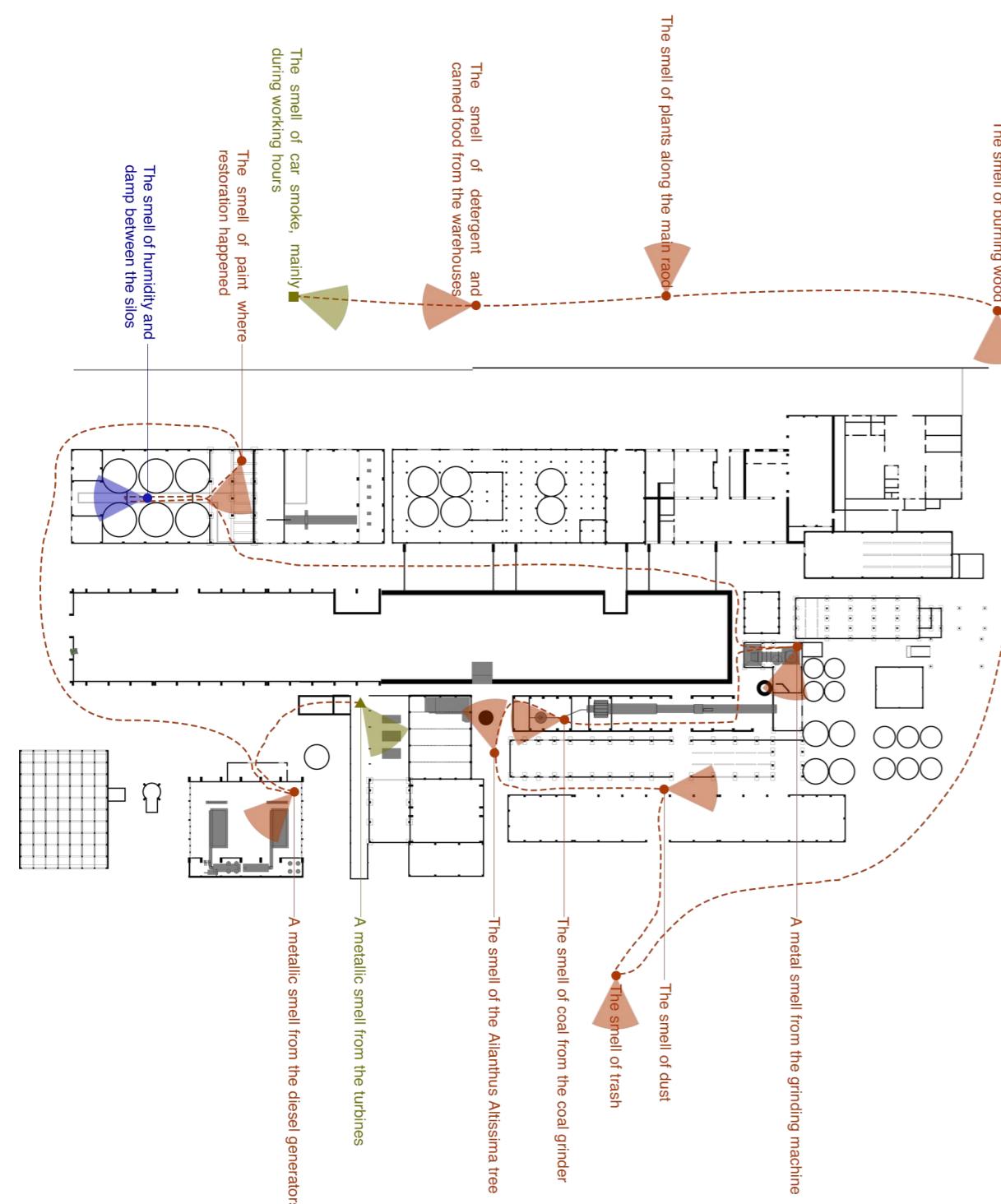
- Aristic photos
- Architic angles for light and shadow
- Frames to take photos
- Old photos

## FLÂNEURING FOR LIGHT - SCAPE





## FLÂNEURING FOR SMELL PERCEPTION



**LEGEND**

- Flâneuring path
- ▲ Start point
- End point
- View from upper levels
- View from ground level
- View from underground level

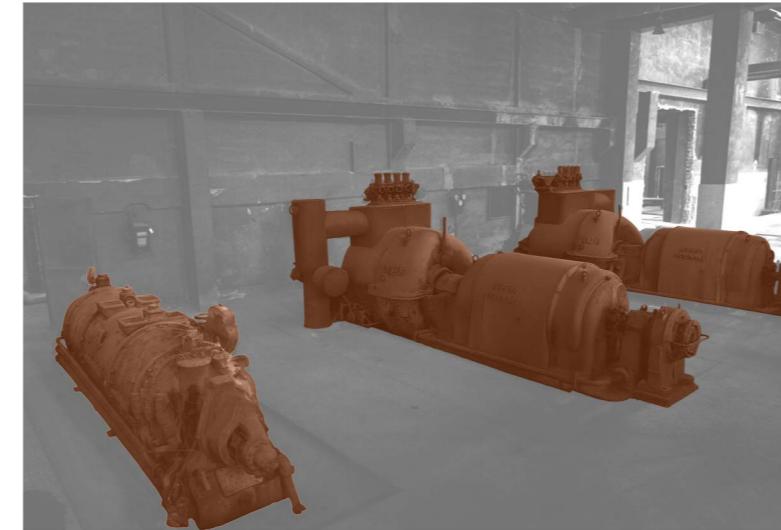


Figure X. Power House and Turbine Hall of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph published by IranTourismOnline, n.d. <https://irantourismonline.com>

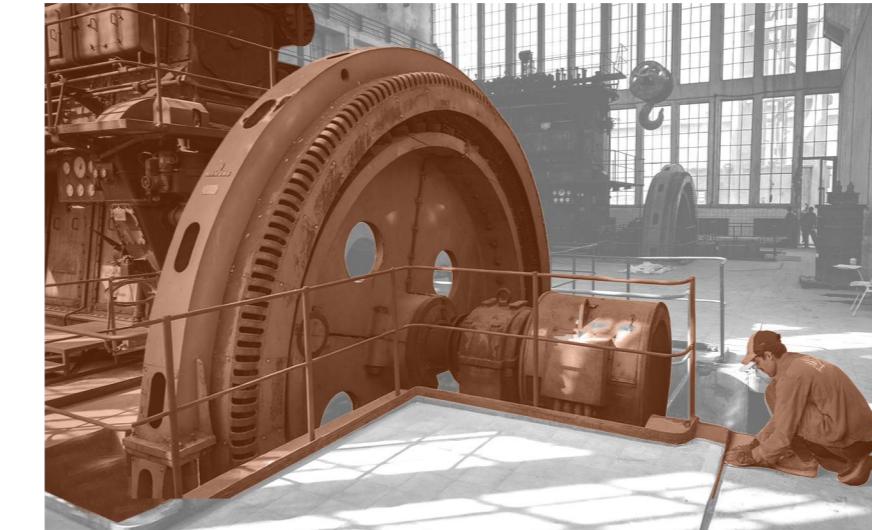


Figure X. Diesel Generator Building of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Paniea Gharbani, published by Tehran Picture Agency, n.d. <https://tehranpicture.ir>



Figure X. The 300-ton Cement Silos of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Amirali Tousi, November 2024.



Figure X. Interior stair and platform between silos at the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Shayan Mehrabi, published by Tehran Picture Agency, February 17, 2021. <https://www.tehranpicture.ir>

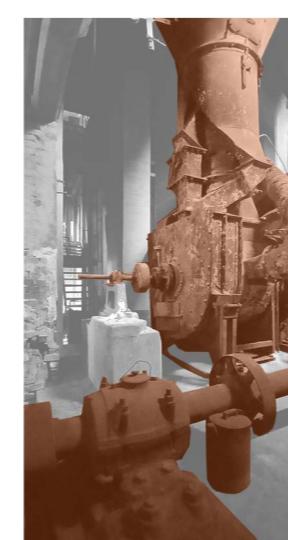


Figure X. Main axis of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by the author, June 2024.



Figure X. The Coal Grinder Machine of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Amirali Tousi, November 2024.

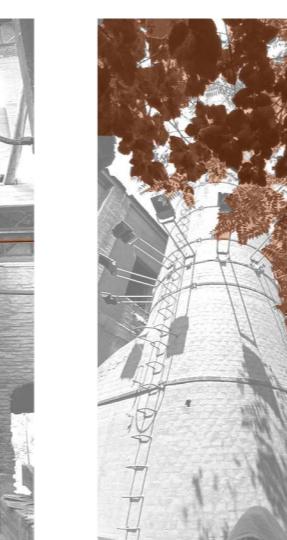


Figure X. Interior Courtyard of The Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by the author, June 2024.



Figure X. Between Kiln Buildings of The Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by the author, June 2024.



Figure X. The Coal Grinder Machine of the Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by Amirali Tousi, November 2024.



Figure X. The North Side of The Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by the author, January 2024.



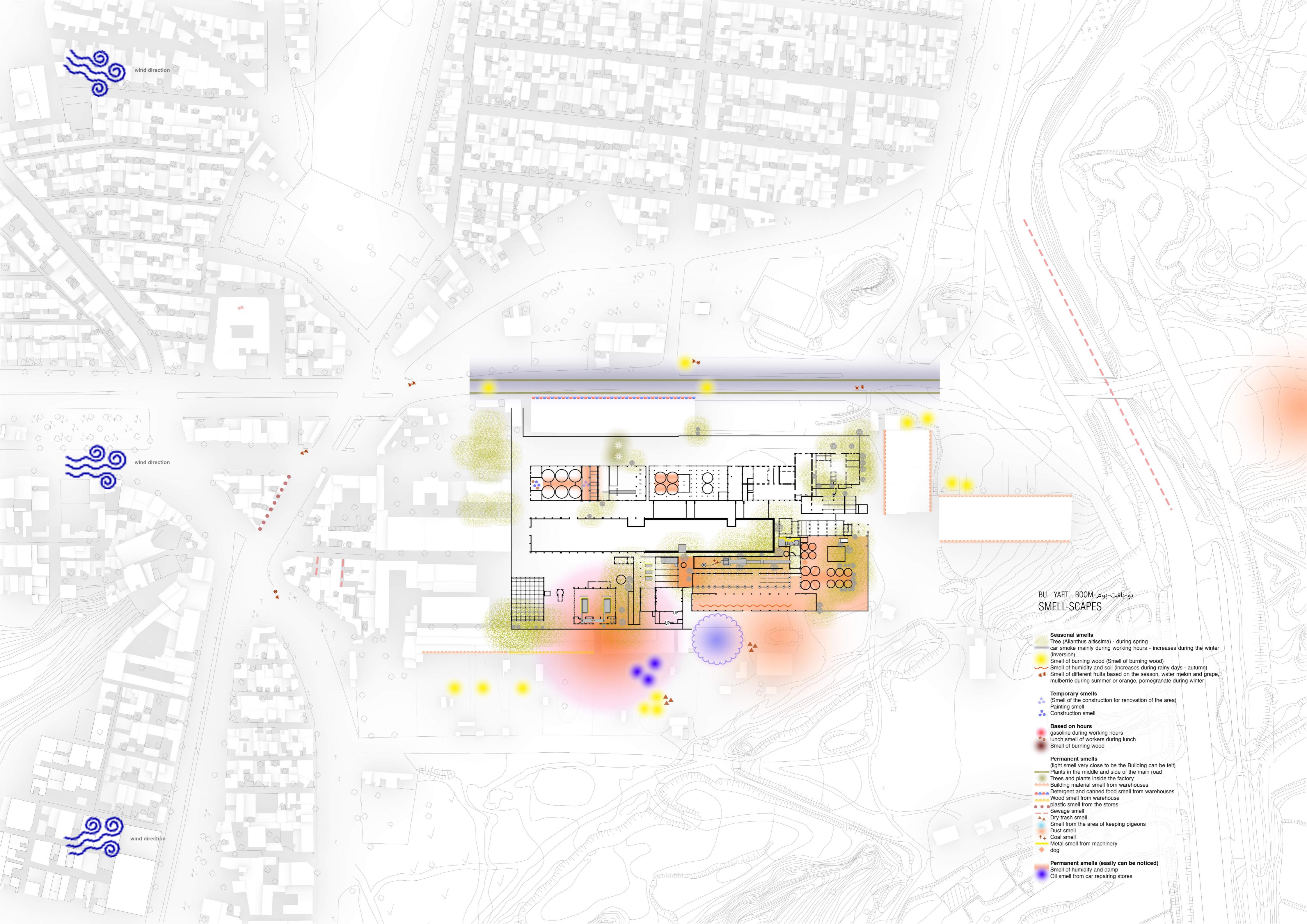
Figure X. Vegetation on The North Road of The Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by the author, January 2024.



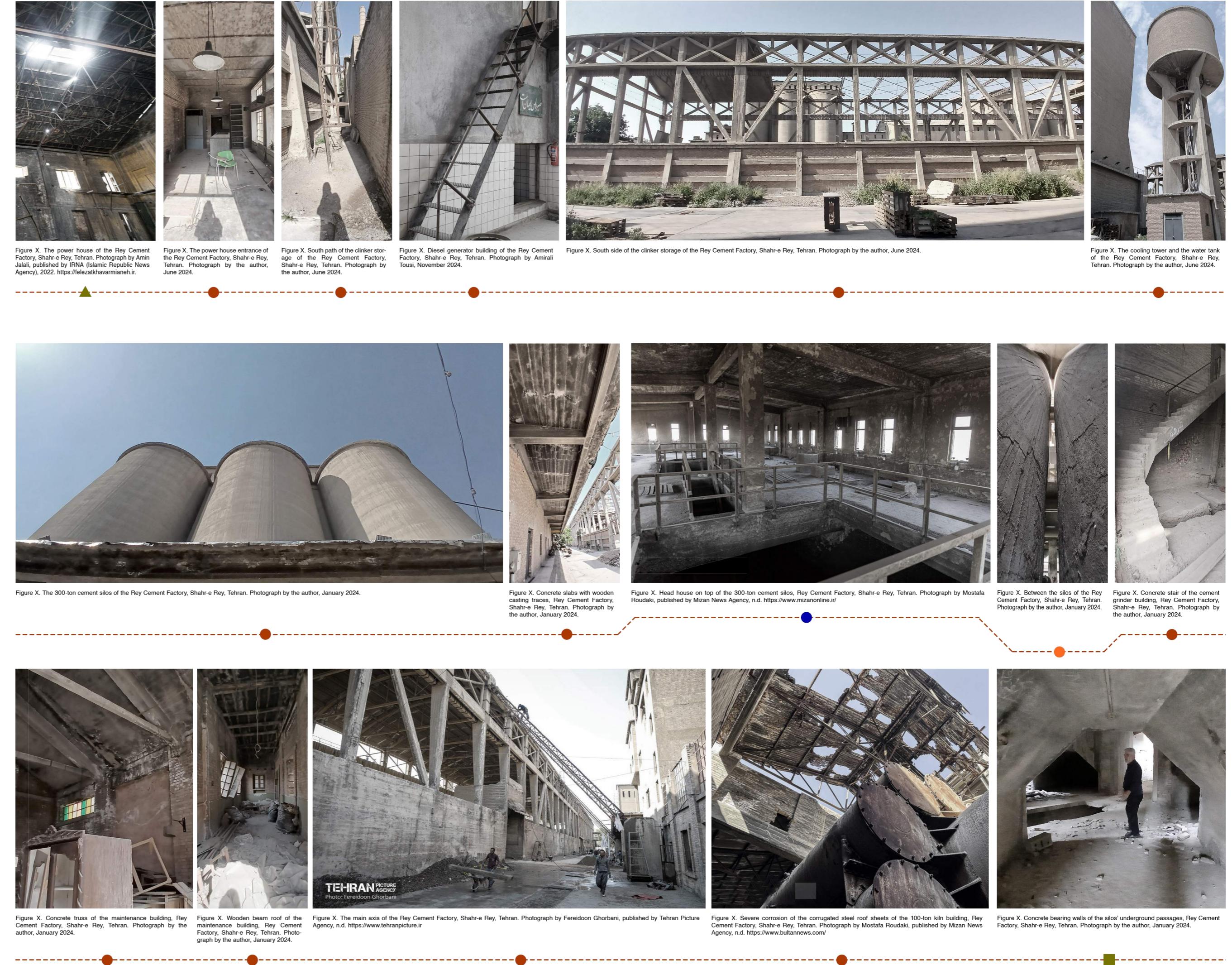
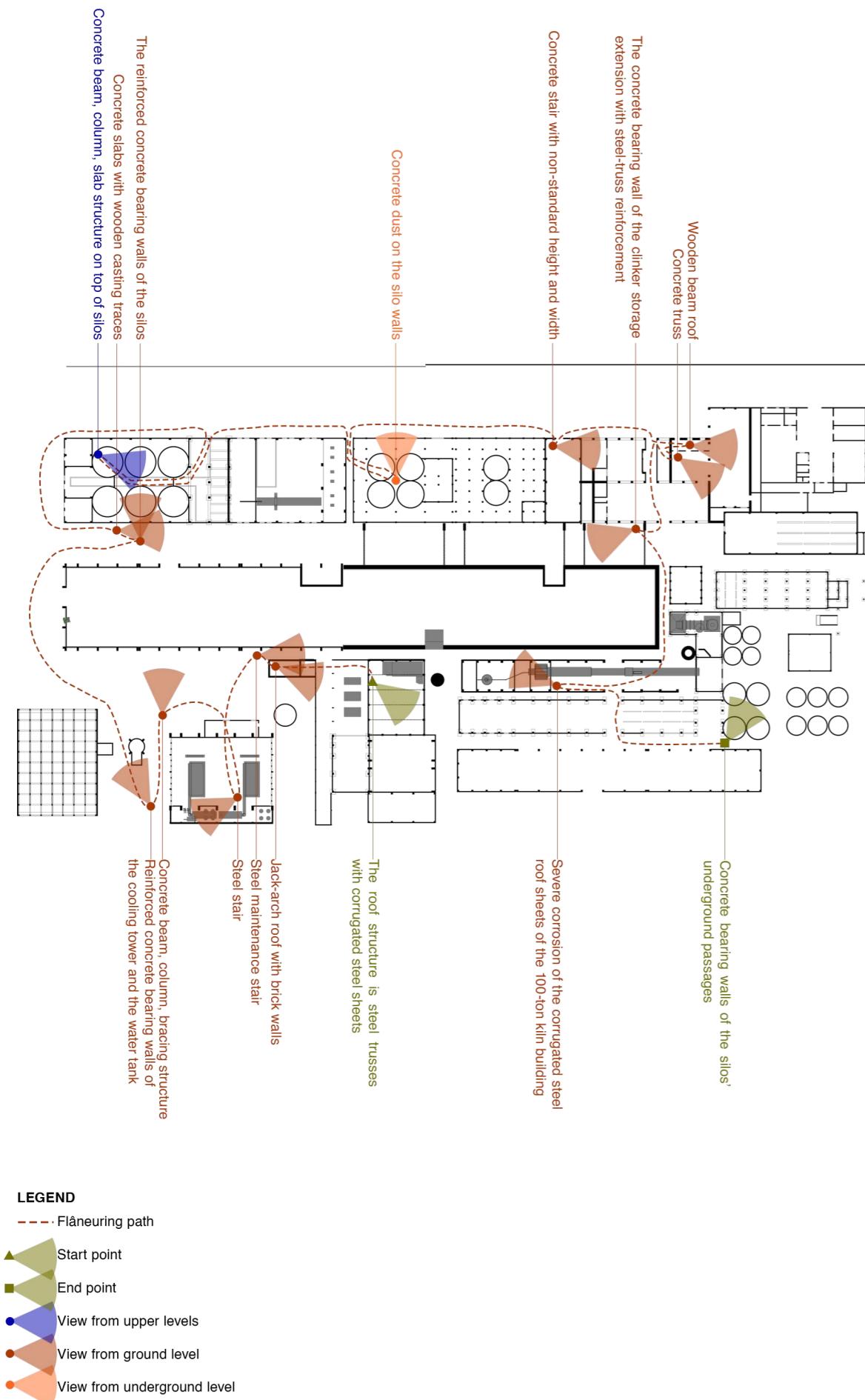
Figure X. The North Warehouse of The Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by the author, January 2024.



Figure X. The North Road of The Rey Cement Factory, Shahr-e Rey, Tehran. Photograph by the author, January 2024.



## FLÂNEURING FOR TOUCH - SCAPES



CHANGE COLORS  
FOTS



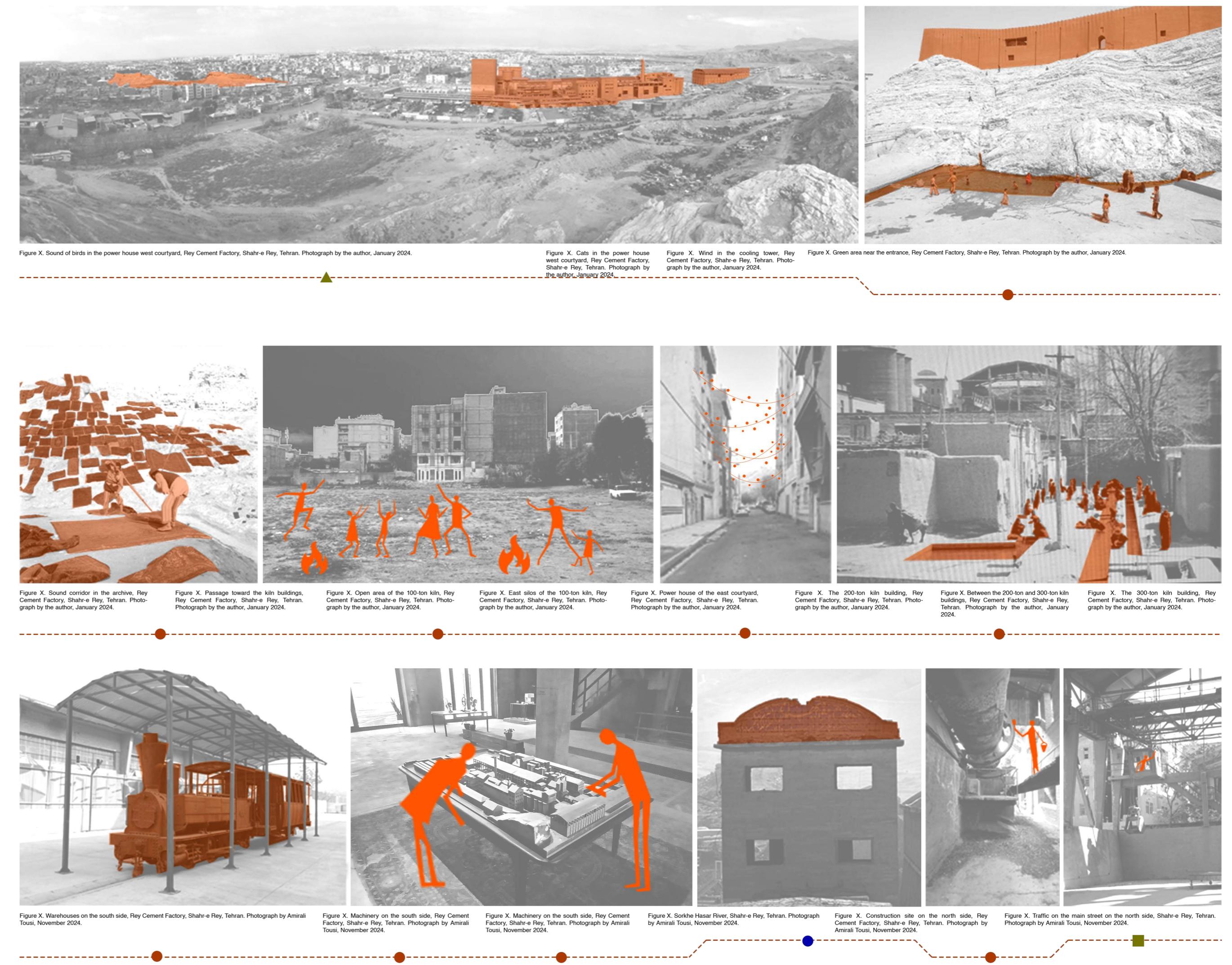
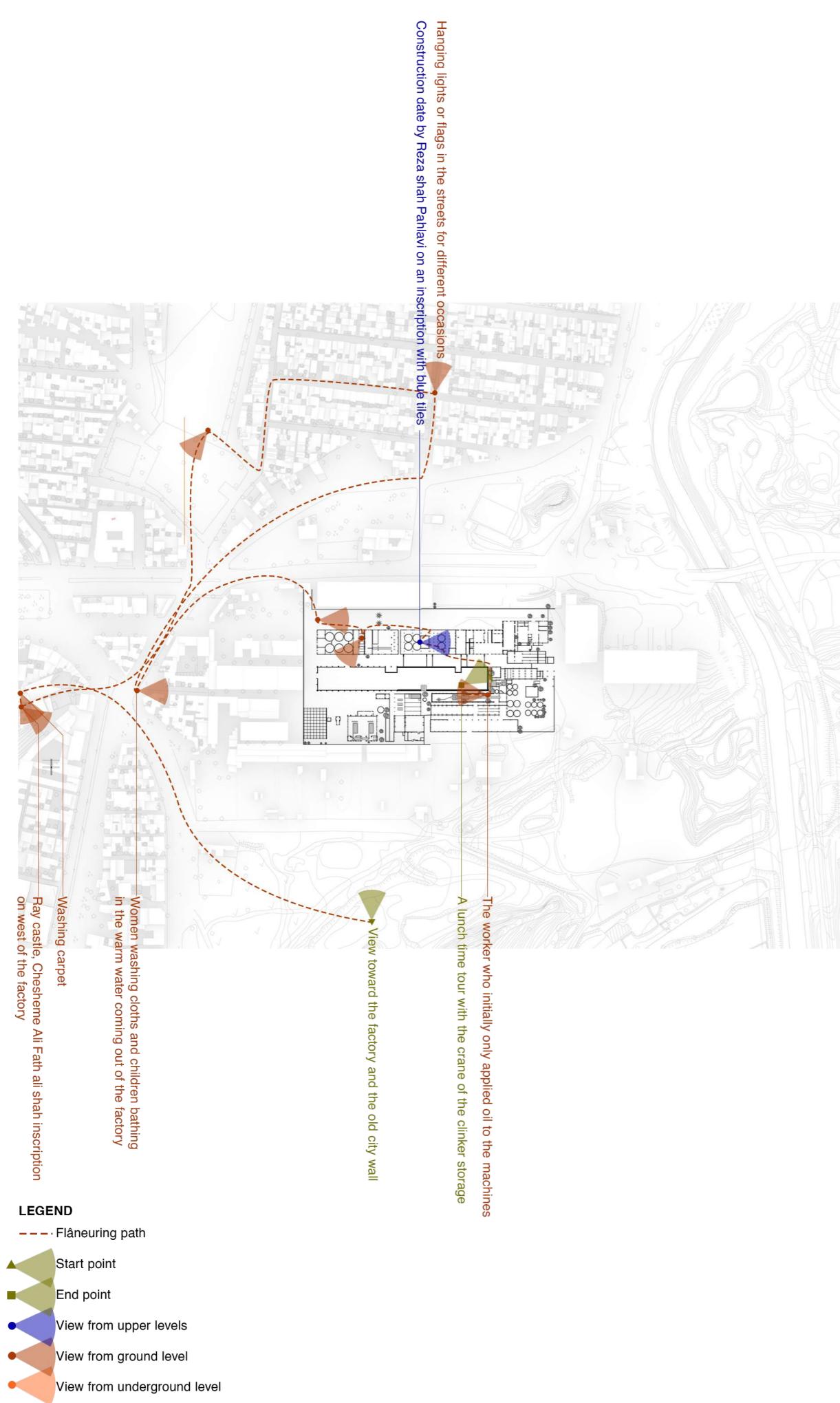
لامسه - یافت - بوم  
LAMESE-YAFT-BOOM  
TOUCH-SCAPE

- Steel structure
- Galvanized sheet metal roof stairs
- Steel stairs
- Steel maintenance stairs
- Machinery and equipment
- Concrete structure
- Concrete roof
- Concrete wall
- Concrete stairs
- Machinery and equipment
- Concrete and steel roof
- Brick wall
- Brick and concrete wall
- Wood floor
- Concrete and wood stairs
- Ailanthus altissima tree
- Date tree
- Fig tree

Colder temperature compared to other places  
Warmer temperature compared to other places  
New mechanical system to provide cold temperature  
New mechanical system to provide cold and warm temperature

Breeze  
Wind

## FLÂNEURING FOR HERITAGE - SCAPE



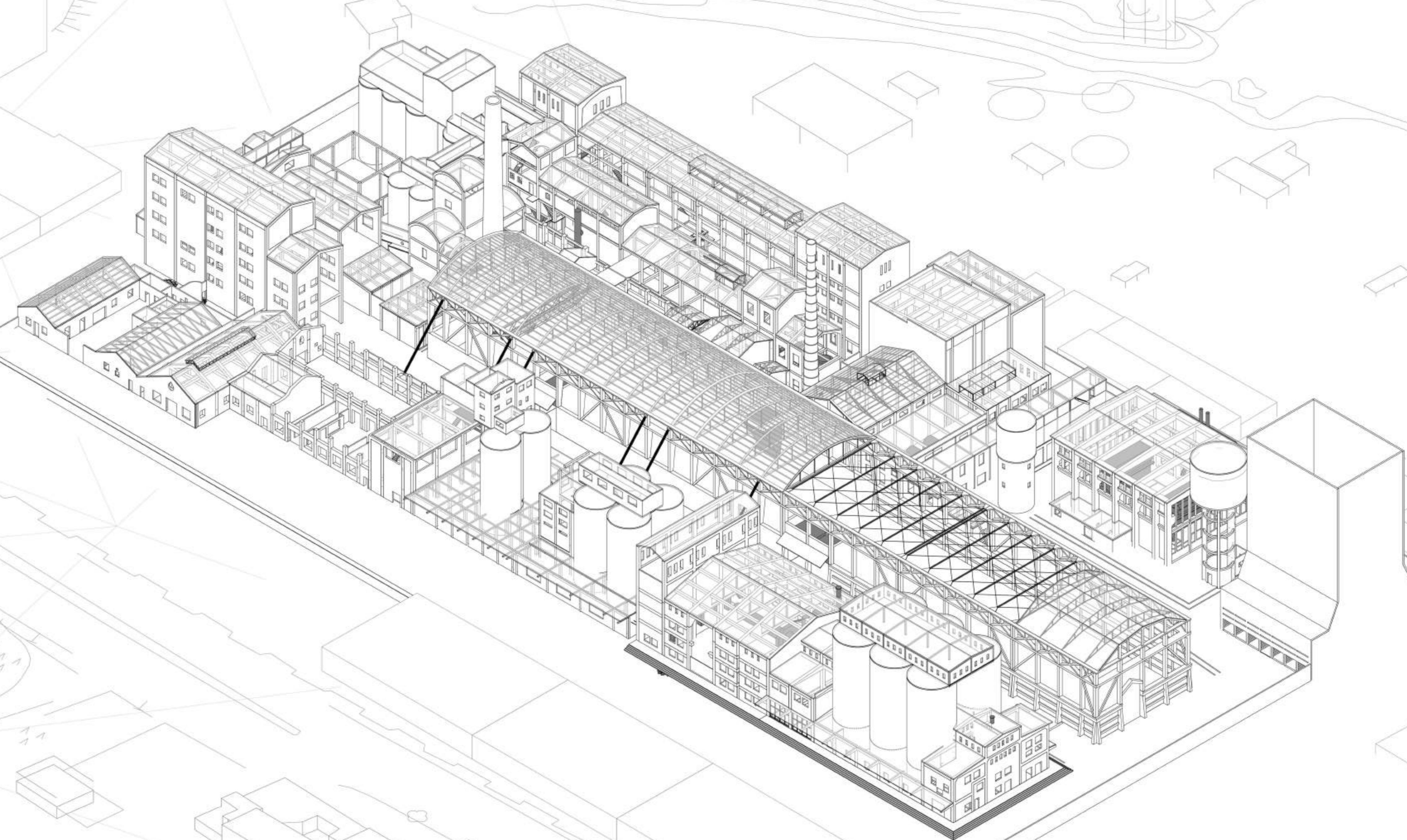
FONT TYPE AND SIZE  
CHANGE THE PLACE  
OF LEGEND




CHANGE COLOR



REPLACE WITH THE LAST VERSION



REPLACE WITH THE LAST VERSION



## SANJAGHI NEGARI

Piled up pieces	Church bell	Barking dog at the end of the factory	Broken wooden boxes	Cement cup conveyor	Air conditioner ducts in front of the stores in the street	No announcement for hiring	Scattered part of machinery on the south of the factory	Small from warehouse around the factory	Being caution in the first run test of 100 ton cement per day	Unity cement blocks on the underground canals	Mozaffar ad-Din Shah mosque built a mosque with the cement	Independency	Building arrangement based on the production process	Main materials: concrete, brick, steel	Mountains on the east and south side of the factory	Strengthening the cinder storage	Roosters' crowing	First path to the shrine constructed Mr. Pedestrian	Air pollution and lack of waste recycle	3 main levels visible from the mountains	Broken pieces on the floor	Having more than 1000 workers in 1951	Modern forms without ornament	Agricultural area on the south	Rebuilding broken chimney																	
Wooden rail traverse, wooden pillars, wooden frame, bricks, industrial equipment, iron pieces	Sloped roof	Round and colorful windows, sloped maintenance area reminder of church	People visiting the factory as a museum	One from kiln to kilner storage, and one hidden in the wall	Allianthus altissima tree	Completed brick walls with another type of brick	Perforated wall of kiln	Making fire with wood and gas from the mechanics, ...	The stones from the mountains, sustenance	Factory supporting the protection of national heritage	Safayeh Square, the old center of Kashan Gate	Form follows function	Wind condition between two kiln buildings	Archeology: the history above the source of stones	experimental instead of engineers	At the explosion time, people were asked to close their ears, and shelter	Explosion of the mountain	Groups of different views	Excavation the foundation and realization that it was missing and filling it	Trucks of the factory	200 ton silos interlaved area of canals and structures	2 cheese-like tower / silos, sold water, water storage, electrical room	A light coming in from the diesel building's roof	Today's cinder storage	Cube, cylindrical form of the factory's buildings	Water storage	mainly vegetables and fruits (tomatoes, cucumbers, lemons, oranges, limes, potatoes, onions, grapes)	Mainly buildings with integrated spaces														
Very low price of cement	Cultural, religious activities during Ramzan, Ashura / Mawlid, visiting classes, workshops, cultural events / shopping / family activities (Playing chess, games, sports (soccer, cycling, walking) / social, family activities	Life expectancy of concrete	Children bathing in the water coming out of the factory	Maintenance area, live	Announcement of Karbala, funerals, ceremonies on houses' walls	German company	On the north-west corner of the factory	Gap between silos	Narrow alley between the factory's buildings	Structural grid inside structural grid	Carriage in the dusty path to the factory	Arranged letters and documents, drawings of the factory	Scattered trash (wires, pipes, tire, clothes, plastic bags) ...	Garbage collector	Curtain wall	On east side most of the pictures were looking up, while on the west side, the photos were aligned with people's eye level	insufficient high-quality, safe, recreational spaces	The factory's condition after being abandoned	Religious, Historical, 25 industrial buildings	Large semi open area of cinder storage	Detached wires	Frosts' smell in the street	In different colors, some programs with a temporary scene	Reasons of the factory's closure	Lack of management, air pollution, failure of the machinery, dept	Cats	Mezzanine															
Skyline going up and down	Covered holes on the ground with wooden/ metal sheets	Cement producing process shows on the diesel building's wall	Silence of the factory	Provided diesel for the factory	Mine lights of the archive	Façade color similar to its background mountains	Older doing sports in the parks	Decreasing the cultural differences	The selected path saves the spirit of the factory for the end (100ton kiln)	Between 10 ton kiln and storage, between silos	Visit path	If people did not have money, they got up on the back of the carriage.	Loading and unloading trucks and vans	Back to back layers of silos	Pozzolanic cement made by Davarband's ash making Shahrrood	Cement sampling	Houses rented by students	Triangular iron elements on the walls to carry wires or shelves	Foxes	Accumulation of garbage, goods' storage, people of homeless and addicted people, during abundance	New small pots of flowers in diesel building	On the North East side, holding path for the surprises	Teaching skills	Pedestrian setting fruits on the street in different times	Old wooden frame windows	Save face	At first chimney, then sold storage, then the rest of the factory															
Special connection of the beams to the columns	Concrete triangles used for the connections	Preservation of industrial and cultural heritage	Fabric covered folders in the archive	Underground water, electricity, sewage canals	Being abandoned for 37 years	Building with its architecture makes it blend with its environment	Huge and massive structure	The cultural differences between literate workers and educated workers are decreased by educating workers	Temporary center of political economy and culture	3 cement production line	The worker who is interested in applying to the machines	Historical embossed stone	Being surrounded mainly with the old dormitory in the factory	Doing their best to finish the work	Clinker storage, spine of the factory	Sound proof	Old furnished of the factory became museum objects	Empty space under the silos	Sunlight passing through dusty air	Buying 18 HA, farmer using 12 HA to build the factory	The smell of the Allianthus altissima tree during spring	Foreigners were in ten houses while to train the workers	Buying 18 HA, farmer using 12 HA to build the factory	Large spans of the beams	Before there was a tradition of harvesting grapes	First sight of the factory form the north and south																
A high school on the west side of the factory	FL Smith company sent a person (Mr. Federer)	Removed railways in the diesel building	Empty place of coal grinder of kilns	Shah Abdol-Azim proveit	More than 750 workers in accommodation	Height slenderness ratio in silos of the elements	Colorful glasses of the skylights	Concrete stairs with steel handrails	Reprising the story telling the factory without expense	International airport, a significant economic role	Sun heat outside	Intentional destruction	Structures do not flow the same grid	Modernity	The holes in the concrete frames for photos	Rock	With the exception of the city center, the factory became part of the city	Contrast	Seeing and being seen	To move so close to it, to not separate and stick together	Producing electricity	Opposite direction of site visit and cement production process	Loft space	A civil Engineer, a chemist, a technician	Documents & Letters																	
To locate the factory and the buildings with training architects	Demolished congested metal road due to natural forces	Storage	Steel grid bridge for the entrance of diesel building	Inviting the guest to stay longer, knowing that they could not leave the limited train transportation (operating only twice per day).	Getting land to the factory or money to build a house	The factory is turned to storage area, the materials have been stored and creates an unsafe area	New wooden window frame	Delicacy	For a more some colorful glasses added to skylights	Title of "Payment" in the old documents	Decay of the factory because of aging	Renovation of Tehran	Margin of small stones on the floor	During abundance, the wall was demolished to steal the machine.	Soft cement powder	On the opening day, at 4 p.m., Reza shah gave oranges to the workers, they didn't know what an orange was.	Orange	Structures do not flow the same grid	Modernity	Structural frames	Scattered cinder, dust and stone	Habit of storing more	An old woman who slowly goes shopping, so her legs get tired, to buy a small bag of flour	Reza's main products were textile, sugar, cement	Symbol of the factory's spirit, it makes us feel sublime																	
New added tents for shading	Texture of wooden board decking on the concrete	Illiterate workers	Surrounding's reflection on the windows, trees, buildings, ...	Water cycle	Diesel generator building in industrial area	Sounds of tapping on the windows or playing with pencils	Delicate iron stains on the facade	People sell salt, salt, needs with sellers worried	The veins of the factory are the underground canals	Tianic	Cooling tower, inner garden, like a small garden entrance between silos	Photo taking points	Wind through the cooling tower	2000 package per person	Hanging 3 m entrances	On the opening day, at 4 p.m., Reza shah gave oranges to the workers, they didn't know what an orange was.	On the opening day, at 4 p.m., Reza shah gave oranges to the workers, they didn't know what an orange was.	Exposed structure	Plans for the factory	With the building forms	The huge mosque of the cement production	Perfect corridor on the entrance of 100 ton kiln	Perfect corridor on the entrance of 100 ton kiln	Old woman swimming in the air	Electricity wires along the north side of the cinder storage	Limited axes from north to south	Symbol fruits, the gas cylinder in vans															
Close to the railway	Permeability of the kilns spaces	Attending the courses to become literate, writing the funding for the food	Income sources	Stop teller used for the machine, typewriter to show how they worked	Observing points	Finger print teller, finger signing for the literate workers	Broken beams hanging from their place	New furniture	worker's housing area	Sun rays on the brick walls	Piled up abandoned furniture	Age of the child when playing football	Ageless, spalling, efflorescence, broken edges, and cement of the facade	Concrete structure creating a frame for the trees	View from the Rashkan castle	On north east, north west, west, south west	Drainage system of outdoor areas	1932 construction of the factory	Shrine ray district, a poor area	Shrine ray district, a poor area	On the south east of the factory	Iran's revolution	On the south of the factory, ...	Children and teenagers playing in the local parks	1295 The first idea for building a factory																	
Workers camping package to the trucks	From one space, one bedroom behind the wall can be seen in XY2 direction	Different investors	Irrelevant wall softbiles	Top of silos and building building at the end of main ax	1983 construction of the kilns	Piled up iron pieces with a potential to be turned to installations	Irregular finishing of the office, frames of the windows and attachment of the new wall with cylindrical silos	Windows in high levels without floors to see through	Tehran municipality of monopoly of the factory	Concrete's decay	Guide signs on outdoor signs	Windows in high levels without floors to see through	Concrete structure creating a frame for the trees	View from the Rashkan castle	On north east, north west, west, south west	Drainage system of outdoor areas	1932 construction of the factory	Iran's revolution	Traffic, machines on the south of the factory, ...	Shadow of trees on the walls	3 mass of buildings	The first import of cement to Iran is not known	Children and teenagers playing in the local parks	at first, Reza Shah suggested to build a cement plant, then instead of importing from Russia to reduce the price to 6%																		
On the street, the smell of oil from the mechanics	Empty cement platforms for the machines	Old cracked wooden stairs	Shah Abdol-Azim proveit	Heaving spaces with various dimensions, height and area	Transportation in the factory	Silos with similar shape but unique passage underneath	Religious traditions	Remaining parts of steel pipe of the machines in the ceiling	Clean and dusty floors	Stories and architectural features of the factory	Shopping at the produce market with the rattle of a shopping cart	Circular holes in the roof	Cold cement	Bird singing	On the south west of the factory	Combination of machinery, and minimum distances in underground	Iran's revolution	On the south of the factory	Paint peeling off the wall	Landscape of work shops, warehouses on the south	Construction of subway station on the north west of the factory	Shrine ray district, a poor area	Shrine ray district, a poor area	Iran's revolution	Construction of subway station on the north west of the factory	Yellow caution tape	Contract for the construction of the factory	Stamping minuscule tag on the packages	1295 The first idea for building a factory													
Clinker storage	Marble chalk silica	The last managers' lack of understanding of the cement industry	Starting Iran's industrial revolution	Heaving spaces with various dimensions, height and area	Transportation in the factory	Similar shape of steel pipe of the machines in the ceiling	Religious traditions	Fishes coming from water can be caught by the workers	Clean and dusty floors	Stories and architectural features of the factory	Shopping at the produce market with the rattle of a shopping cart	Circular holes in the roof	Cold cement	Bird singing	On the south west of the factory	Combination of machinery, and minimum distances in underground	Iran's revolution	On the south of the factory	Paint peeling off the wall	Landscape of work shops, warehouses on the south	Construction of subway station on the north west of the factory	Shrine ray district, a poor area	Shrine ray district, a poor area	Iran's revolution	Construction of subway station on the north west of the factory	Yellow caution tape	Contract for the construction of the factory	Stamping minuscule tag on the packages	1295 The first idea for building a factory													
Being present and expanding in all 4 periods, being an element, connecting diverse cultures in its background	Newly built buildings in the old neighborhood	Old broken windows, cracked light and shadow pattern on the floors	converted places	Asked for a job, people were living in 350-500 workers by the opening day	Braking down the rocks	Making fire for the heating during the winter	Bricklaying and study circles, giving food for their merit	Special shape of concrete frames	The kilns, the stomachs	Existence of Zoroastrianism <=> Persianism in the neighborhood	Reasons of using base material for other products, construction by hand, high demand and lack of enough cement	Access to the subway and highways	Between 4 silos, a small cozy spiritual area with yellow light on gray silos	Grooves stars are visible from most of the part of the factory	Various functions in the area	Renovation organization of Tehran	1932 construction of the factory for 30 years	Huge industrial machines	17% waste of raw material in the cement production by wind	The factory without any renovations after the competition	Tell noises to release sound and heat of machinery	Movie science	Huge grinding machine in a small room	Archae, cooling tower, under the silos, 300 ton, cinder storage	not complying standards of the stars	Goals of reuseing factory	Sobered wild trees have become dense at the west south corner	Repetitive cylindrical shapes stars on the facade	Plenty of mechanics and stone pieces for cars	Open, close, semi-closed areas												
Cooling tower, heating of the factory	Tehran theater, Verez bridge, ministry of communications, telecommunication, building, of Tehran, Tehran contemporary art museum	Vegetation on brick wall	Development of Tehran's east-west axis	Bricklaying of outerwod stars	Sloped edge of columns	A budget to build the factory	Brown foots, half of the facade is ruined	Thin roof's slabs visible from outside	Street-side newsstand	World war II	Fishes of many drawings on achieve wall	Cement Kilns	Baker, butcher, markets, restaurants, cafe, shops, mechanics, beauty salons, educational areas, shops, restaurants, areas, schools, gym, water source	1450 centrifuge degree	During the absence of building time stopped for the fall of 1979, it's continued for the nature	Mr. Hosseini Farahani and mr. Rahnemanian	Construction of subway station on the north west of the factory	Yellow caution tape	Old building becomes more bright	Rain in the cooling tower	Old building becomes more bright	Construction of subway station on the north west of the factory	Yellow caution tape	Contract for the construction of the factory	Stamping minuscule tag on the packages	1295 The first idea for building a factory	Contract for the construction of the factory	Stamping minuscule tag on the packages	1295 The first idea for building a factory													
Wedding or birth or death of a religious figure	The north and south walls, the shortest buildings	The path on the North side of clinker storage	Natural light on the machinery	Mechanics repairing cars on the street	The facade, skin	Till 1937 the only source of cement production	Relaxed the big filters of the kilns	The wind went into the house	Relaxing classes, holding classes to literate workers	Concrete walls, long length, minimum width and thickness	Seems that the factory full of many pipes did not have clear path for movement.	Recently Germans wanted to buy the diesel	Brake haars, tires passing on the east side	All Ghoshan Sepah, manager of the factory	Fishing about the 70% of the building for the third line before the war. Due to the lack of shipping, some ships were damaged by the sun and rain.	Area without considerable water and plants	Welding of the old machines for their cracks	Large area and size of the factory	Railway on the north of clinker storage	Inner yards	Light weighted roofs	Researched engineer with the culture and social knowledge	German Tabas company built the first production line	Stealing some stuff during abundance of the building	Previously cement silos had small stars in them	Braces, beams, columns, truss, stairs in clinker storage	Stealing	Denmark, Germany, Sweden, Belgium, Austria	Cheshme Ali Fountain 	The first cement factory in the Middle East	Underground cement canals	Excavating from east to south, digging from west to north	Old ruins	Passing fast through the monitory area of archive	Turkey under silos disconnect from the factory inside space between silos	Dusty furniture become a part of the museum	Ray Cheshme Ali Pahal shah inscription on west of the factory	Clinter storage's braces, cooling tower's structure, iron truss	Handicrafts and special dishes entrance area	Chimneys, mouths of the factory	Clinter storage's braces, cooling tower's structure, iron truss	Ray Cheshme Ali Pahal shah inscription on west of the factory
Stone iron roof of maintenance area	Working for 6 months, collecting money, then returning to their village	Outdoor tall iron lamps	Runned roofs which are spotted sunlight, enter the sunlight when the machinery like an object in a museum	Wild trees growing in the ground in inner garden of banyan trees	Breaking down the extracted stones from the mountain	Deaf and mute workers	People collect sand and garbge for a living	Visiting the factory with a supervisor	Crack between two type of material	People collect sand and garbge for a living	Recently Germans wanted to buy the diesel	Brace, beams, columns, truss, stairs in clinker storage	From stone to stone	Rock tender	Stealing all of the packaging machines but one for debt	Accumulated garbage, construction waste, sand, iron, being abandoned were sent to other places of stored	In old photos, a old man under a car carried rocks from the mountain to the factory	From stone to stone	Stealing	Traces of evanescence of watermills in, washing carpets, bathing	Modular	Previously cement silos had small stars in them	Archae, cooling tower, under the silos	Cheshme Ali Fountain 	The first cement factory in the Middle East	Underground cement canals	Excavating from east to south, digging from west to north	Old ruins	Passing fast through the monitory area of archive	Turkey under silos disconnect from the factory inside space between silos	Dusty furniture become a part of the museum	Ray Cheshme Ali Pahal shah inscription on west of the factory	Clinter storage's braces, cooling tower's structure, iron truss	Handicrafts and special dishes entrance area	Chimneys, mouths of the factory	Clinter storage's braces, cooling tower's structure, iron truss	Ray Cheshme Ali Pahal shah inscription on west of the factory					
Mr. Turbo came to build the foundation	Distributing food for free to special merit	Runned roofs which are spotted sunlight, enter the sunlight when the machinery like an object in a museum	Wild trees growing in the ground in inner garden of banyan trees	Breaking down the extracted stones from the mountain	The neighborhood cells, lying under the sun	Till 1937 the only source of cement production	People collect sand and garbge for a living	Visiting the factory with a supervisor	Crack between two type of material	People collect sand and garbge for a living	Recently Germans wanted to buy the diesel	Brace, beams, columns, truss, stairs in clinker storage	From stone to stone	Rock tender	Stealing some stuff during abundance of the building	Moved from other places to their original places	In old photos, a old man under a car carried rocks from the mountain to the factory	From stone to stone	Stealing	Traces of evanescence of watermills in, washing carpets, bathing	Modular	Previously cement silos had small stars in them	Archae, cooling tower, under the silos	Cheshme Ali Fountain 	The first cement factory in the Middle East	Underground cement canals	Excavating from east to south, digging from west to north	Old ruins	Passing fast through the monitory area of archive	Turkey under silos disconnect from the factory inside space between silos	Dusty furniture become a part of the museum	Ray Cheshme Ali Pahal shah inscription on west of the factory	Clinter storage's braces, cooling tower's structure, iron truss	Handicrafts and special dishes entrance area	Chimneys, mouths of the factory	Clinter storage's braces, cooling tower's structure, iron truss	Ray Cheshme Ali Pahal shah inscription on west of the factory					

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## 1. ANALYSIS

### X.X. RAY CEMENT FACTORY - NEGAR - BOOM ATMOSPHERIC LAYERS / (GENS / جنس)

Piled up pieces	Church bell	Barking dog at the end of the factory	Broken wooden boxes	Cement conveyor	Air compressor at the front of the stores in the street	No announcement for morning	Small part of instruction on the south of the factory	Small from warehouse around the factory	Being caution in the first run of the cement per day	Untidy cement blocks on the south of the canals	Mosqueh Ad-On - Shah daughter mosque with the cement	Independency	Building based on the south of the factory	Main materials: concrete, brick, steel	Mountains on the east of the factory	Strengthening the cinder storage	Rooftops crossing	Air pollution and lack of waste recycle	3 main levels of the mountains	Broken pieces on the floor	Having more than 1000 workers in 1987	Modern without ornament	Agricultural area on the south	Replacing broken chimney			
Wooden rail traverses, windows, windows' frames, bricks, iron, equipment, iron pieces	Sloped roof	People consider factory as a museum	One kiln to clinker storage, and one hidden in the wall	Alnithus alessae tree	Completed brick walls with another brick	Perforated wall of kiln	Making fire with wood and gas, and oil with the mechanics, ...	The stones from the mountains, suspense	Being caution in the first run of the cement per day	Untidy cement blocks on the south of the canals	Mosqueh Ad-On - Shah daughter mosque with the cement	Independency	Building based on the south of the factory	Main materials: concrete, brick, steel	Mountains on the east of the factory	Strengthening the cinder storage	Rooftops crossing	Air pollution and lack of waste recycle	3 main levels of the mountains	Broken pieces on the floor	Having more than 1000 workers in 1987	Modern without ornament	Agricultural area on the south	Replacing broken chimney			
Very low price of cement	Children & Adults' free time in Ashur	Connecting the abandoned industrial area, and people with the industrial heritage	Maintenance area, liver	Factory supporting the preservation of industrial heritage	Safatayh Sepahan old center of Roshkan Gate	Form follows function	Wind corridor between two kilns	Arranged letters and documents of the factory	Garbage collector	Workers caught fish for the meals from the canals	Chimney	Workers caught fish for the meals from the canals	Independency	Explosion of the mountain	Groups of different workers	Excavation of the foundation and rest of the kiln was missed and filling it	Important buildings of Ray area	200 ton silos for cement and water storage, electrical room	Today's storage	Water storage	Mainly vegetables and fruits, cucumbers, Potatoes, figs, melons, pomegranates, grapes	Mainly buildings with integrated spaces	Hand holding the machines in achieve				
Skyline going up and down	Empty Industrial area in the city	German company	Announcement of Karbala, kilns, cemeteries on houses' walls	Broken notes on the wall	Between 100 ton kiln and clinker storage between silos	Visit path	If people did not have money, they got up on the truck carriage.	Back to back layers of kilns and walls	Back to back layers of kilns and walls	Precociate cement made by the Damavand's salt mine	Cement sampling	Houseworn by students	Garbage collector	On east side of the kiln, people were informed to come and shelter	Religious, Historical, 25th National buildings	Large semi-enclosed areas of cinder storage	Detached wires	Fruit in the street	Reserves of the factory's closure	Save face	Lack of management, air pollution, failure machinery, dept	Cats	Mezzanine				
Covered holes, all closed with wooden/ metal sheets	Cement producing processes in the diesel building's wall	Silence of the factory	Provided diesel for the factory	Mine lights of the archive	Elderly sports in the parks	Decreasng the cultural differences	The selected visiting path of the factory for the visitors (the kiln)	Light frame of the dark room	Decreasing the colors on the upper levels	The possibility of getting the solid parts of the factory	In one place various spaces are back to back to be able	Green, blue, cream, gray, brown	Garbage collector	On east side of the kiln, people were informed to come and shelter	Religious, Historical, 25th National buildings	New small pots of flowers in diesel building	Teaching skills	Pedler selling fruits in different frame windows	Old wooden frame windows	Pedler selling fruits in different frame windows	Save face	First sight of the factory from the south	At first chmeyers, then old storage, then the rest of the factory				
Special connection of the beams to the columns	Concrete being used for the connections	Silk road passed from the city	Hanging lights or flags in the streets on different occasions	Underground storage tanks cause	Empty factory in the storage area, the machine have been closed and creates an unsafe area	Huge and safe structure	The cultural differences between elderly workers and managers decreasingly educating workers	Future center of politics and culture	3 cement production line	Building with kilns makes it blend with the environment	Building with kilns makes it blend with the environment	Garant Uz	Flying blind	Red sharp edge of new concrete stairs	Doing their best sampling	Foxes	Sound proof	Empty space under the kiln	Old fashioned factory became	Buying 14 kilns through HAs	Relaxing intense workers on the opening day of the factory	Large spans of the kilns	Before the harvesting grapes	At first chmeyers, then old storage, then the rest of the factory			
A high school on the west side of the factory	Removed parts in the diesel building	Emergency of cost kilns	Shah Abas-Amin proved	More than 1750 workers accommodation	Hight slenderness rate of the elements	Colorful glasses of the skylights	Concrete stairs with their hands	regarding the story later of the factory without experience	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant				
FL Smith company sent a person Mr. hood to the factory	Storage	Steel grid bridge for the entrance of the diesel building	Inviting the guest to stay longer, knowing that the train does not due to limited train transportation (operating only twice per day).	Getting land close to the factory or money to build a house	For a move some colorful skylights have been added to the skylights	New furniture	Photo taking points	Photo through the cooling tower	Photo through the cooling tower	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant	Iranian International Airport is significant				
To locate the factory and the buildings with the help of an architect	Destroyed corrugated iron panels to natural force	Reflection on the glass	Inviting the guest to stay longer, knowing that the train does not due to limited train transportation (operating only twice per day).	Small of the dust	Reflector brick for inside 1400 degree oven	Finger print instead of the finger print	For a move some colorful skylights have been added to the skylights	Photo taking points	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower	Photo through the cooling tower				
New added parts for shading	Texture of wooden decking on the concrete	Illustrate workers	Surrounding's reflection on the windows (trees, buildings, ...)	Tapping on the windows or playing with pencils	Water cycle	Drone generator on industrial area	Selling things on the facade	The veins of the underground caravans	Titanic	Cooling tower's inner garden, stairs, entrance, between silos	3000 packages per person	On north east, north west, west, south west	Drainage system of outdoor areas	TESS Construction of the factory	Structural frames	Orange	Structures do not have the same grid	Modernity	Plans for the factory	Variety of the building forms	The huge mosque of the cement production	Parts weren't produced in the kilns	Limited kilns towards south	Symbol of the factory, it makes us feel sublime			
Close to the railway	Permeability of the kiln spaces	Affording the courses to become literate, funding for the food	Story teller used the terminology, however show they worked	Observing points	Printed on the kiln	Broken beams hanging from their places	New administration office of the factory	Piled up abandoned iron stars	4 German, 2 in Iran, 1 in Turkey, 1 in Tannic	The sound of children playing football	Allowance of filling 2000 kilns per day by each kiln	On the opening day of the kiln, Reza Shah gave orange to the workers, they didn't know what is orange	On the opening day of the kiln, Reza Shah gave orange to the workers, they didn't know what is orange	On the opening day of the kiln, Reza Shah gave orange to the workers, they didn't know what is orange	On the opening day of the kiln, Reza Shah gave orange to the workers, they didn't know what is orange	On the opening day of the kiln, Reza Shah gave orange to the workers, they didn't know what is orange	On the opening day of the kiln, Reza Shah gave orange to the workers, they didn't know what is orange	On the opening day of the kiln, Reza Shah gave orange to the workers, they didn't know what is orange	On the opening day of the kiln, Reza Shah gave orange to the workers, they didn't know what is orange	On the opening day of the kiln, Reza Shah gave orange to the workers, they didn't know what is orange	On the opening day of the kiln, Reza Shah gave orange to the workers, they didn't know what is orange	On the opening day of the kiln, Reza Shah gave orange to the workers, they didn't know what is orange	On the opening day of the kiln, Reza Shah gave orange to the workers, they didn't know what is orange				
Workers carrying cement packages on the trucks	From one space, other spaces behind it can be seen XYZ direction	Different investors	Trade, business, agriculture, animal husbandry, the main sources / the main parts of the International Tehran refinery, industrial and cultural sites, small-scale (mechanics, local markets)	Top of silos, and the end of main ax	1983 Closing the factory	Reliant finishing of the office, frames of the kilns, doors, windows, and the new wall with cylindrical silos	Windows in high levels without floors see through	Silence of kiln having 30 years of monopoly of the factory	Concrete's guide signs on the outer floor	Concrete's guide signs on the outer floor	Portland cement	Agas, spalling, broken edges, broken edges, cement of the facade	Silice without windows	Stories and architectural features of the factory	Shopping at the produce market for a shopping cart	Circular holes in the roof	Cold cement	Bed singing	Empty of the windows	Black steel doors	Tree, shadow, stairs, forms, special brick wall	Electricity wires on the alloy on the south of the factory	Selling fruits, filling the gas cylinder in tanks	all phishan separate to build a cement factory instead of buying from Russia to reduce the price to 6%			
On the street, the small car and the mechanic	Empty cement platforms for the machines	Old cracked wooden outdoor stairs	The test kiln had no understanding of the cement industry	Having spaces with various height and area	Transportation in the factory	Religious traditions	Remaining part of steel pipe of the ceiling	Clean and dust floors	Cross between silos	Remaining holes of the canals passing through the roof	Access to the subway and highways	Grooves that stay from the ceiling	Various functions in the area	Reinforcement of the bridge with steel truss	Between 4 silos, a small cozy spiritual area with yellow light on gray box	Bedroom	Renovation competition	No one was left. Some left by themselves, been transferred to other places, paid for few months and then left	Shah Abas-Amin	Outside sound source	Black stairs to the kilns	Few people in the building	Employees' allowances	Stamping usually the logo on the packages	1250. The first idea for a factory		
Clinker storage	limestone chalk silica	The test kiln had no understanding of the cement industry	Starting Iran's industrial revolution	No required need for firing	Donkey, ralls, and workers	Strengthening the existing structure	Religious traditions	Reza Shah	4 Period of the expansion of the factory	Access to the subway and highways	Grooves that stay from the ceiling	Various functions in the area	Reinforcement of the bridge with steel truss	Between 4 silos, a small cozy spiritual area with yellow light on gray box	Bedroom	Renovation competition	No one was left. Some left by themselves, been transferred to other places, paid for few months and then left	Shah Abas-Amin	Outside sound source	Black stairs to the kilns	Few people in the building	Employees' allowances	Stamping usually the logo on the packages	1250. The first idea for a factory			
Being present and expanding in its area, a strong element connecting diverse volumes in its background	Newly built buildings in the old neighborhood	Fig tree in the inner garden	Construction of railways, shared work documents, archive, building on building.	Scattered leaves	Palm tree	Strengthening the existing structure	Religious traditions	Reza Shah	4 Period of the expansion of the factory	Access to the subway and highways	Grooves that stay from the ceiling	Various functions in the area	Reinforcement of the bridge with steel truss	Between 4 silos, a small cozy spiritual area with yellow light on gray box	Bedroom	Renovation competition	No one was left. Some left by themselves, been transferred to other places, paid for few months and then left	Shah Abas-Amin	Outside sound source	Black stairs to the kilns	Few people in the building	Employees' allowances	Stamping usually the logo on the packages	1250. The first idea for a factory			
Cooling tower freshness of the factory	Tehran theater, Varsak bridge, education, culture, on building.	Old broken windows and shadow on the floors	Construction of railways, shared work documents, archive, building on building.	Development of Tehran's east-west axis	Bricklet of outdoor wooden stairs	Sloped edge of columns	Pattern of cement powder in the silos	Thin roof's slate visible from outside	Street-side newstand	World war II	Frames of mirrors, drawings on active wall	Cement kiln	Today in different majors' students doing activities on the factory	Parts of sky between buildings	Residential buildings	Parts of sky between buildings	Old kiln's Payment	Old kiln's Payment	Old kiln's Payment	Old kiln's Payment	Old kiln's Payment	Old kiln's Payment	Old kiln's Payment	Old kiln's Payment	Old kiln's Payment		
Wedding or birth of a religious figure	The path on the North side of clinker storage	Main ax of the factory	Cement first product with standard size	Based on Tehran's nature and the rivers and the city should have developed on north-south axis.	Scattered leaves	Palm tree	Seems that the factory full of the life before the war, did not have clear path for movement.	The manager of the kiln's manager of the factory	Fishing hasil river passing on the east side	Without considerable water and plants	Welding of the kilns for the steel frame	Bricklet of outdoor wooden stairs	Second chimney	Bricklet of outdoor wooden stairs	Jack arch roof	Children walking back from school	Rock tender	Various countries played a roll in the construction	Various countries played a roll in the construction	Various countries played a roll in the construction	Various countries played a roll in the construction	Various countries played a roll in the construction	Various countries played a roll in the construction	Various countries played a roll in the construction	Various countries played a roll in the construction		
2000 Seasonal workers from various origins	Natural light on the machinery	Mechanics repairing cars on the street	The facade, the skin	Deaf and mute workers	Rained roofs from the sun	Spotted sunlight enter the building	the machinery like objects in a museum	Deaf and mute workers	Waste picker	Crack between two type of cement	People collect and sell garbage for a living	Visiting the factory with a supervisor	Braces, beams, columns, stairs in clinker storage	Scattered dust collector filters in the tailor shop	Braces, beams, columns, stairs in clinker storage	Stones and trees in the middle of the street and on the sidewalk	Shapes of light on the 300 ton kiln	Cooling tower	Stealing	Stealing some from the stone blocks and turns to stone at the end	Rain water pipe	Trance of entrance of washing carpers, bathing	Previously cement silos had been stored in the entrance	Concrete structure	Concrete structures and special dishes and sweets of the factory	Chimneys, iron structures, iron truss	Bricklet of outdoor wooden stairs
working for 6 months collecting money, then returning their village	Outdoor tall iron lamps	Rained roofs from the sun	Spotted sunlight enter the building	Deaf and mute workers	Deaf and mute workers	Deaf and mute workers	Deaf and mute workers	Deaf and mute workers	Waste picker	Crack between two type of cement	People collect and sell garbage for a living	Visiting the factory with a supervisor	Braces, beams, columns, stairs in clinker storage	Scattered dust collector filters in the tailor shop	Braces, beams, columns, stairs in clinker storage	Stones and trees in the middle of the street and on the sidewalk	Shapes of light on the 300 ton kiln	Cooling tower	Stealing	Stealing some from the stone blocks and turns to stone at the end	Rain water pipe	Trance of entrance of washing carpers, bathing	Previously cement silos had been stored in the entrance	Concrete structure	Concrete structures and special dishes and sweets of the factory	Chimneys, iron structures, iron truss	Bricklet of outdoor wooden stairs
Mr. Tuber came to Iran to build the machineries' foundations	Distributing food for free spiritual meat	Breaking down the stones from the mountain	The neighborhood cats, lying under the sun	Silver light, diesel generator building's blue light	Deaf and mute workers	Deaf and mute workers	Deaf and mute workers	Deaf and mute workers	Waste picker	Crack between two type of cement	People collect and sell garbage for a living	Visiting the factory with a supervisor	Braces, beams, columns, stairs in clinker storage	Scattered dust collector filters in the tailor shop	Braces, beams, columns, stairs in clinker storage	Stones and trees in the middle of the street and on the sidewalk	Shapes of light on the 300 ton kiln	Cooling tower	Stealing	Stealing some from the stone blocks and turns to stone at the end	Rain water pipe	Trance of entrance of washing carpers, bathing	Previously cement silos had been stored in the entrance	Concrete structure	Concrete structures and special dishes and sweets of the factory	Chimneys, iron structures, iron truss	Bricklet of outdoor wooden stairs

SSIMILAR DIMENSIO NS TO THE PREVIOUS ONE

SURROUNDING WORLD
BETWEEN WORLD
INSIDE WORLD
UNDERGROUND WORLD
RULES AND PIECES OF GAME
PLAYFULNESS
FACTORY'S HARD SPACES
FACTORY'S SOFT SPACES
BRIGHT AND DARK
RAY FACTORY IN THE IMAGE OF LIFE
ABANDONED
USED WHAT WAS AVAILABLE
DECAY
HARMFUL INTERVENTIONS
BENEFICIAL INTERVENTIONS

## 1. ANALYSIS

## X.X. ATMOSPHERIC LAYERS / (GENS / جنس) IN UPPER LEVEL FOR EXISTING

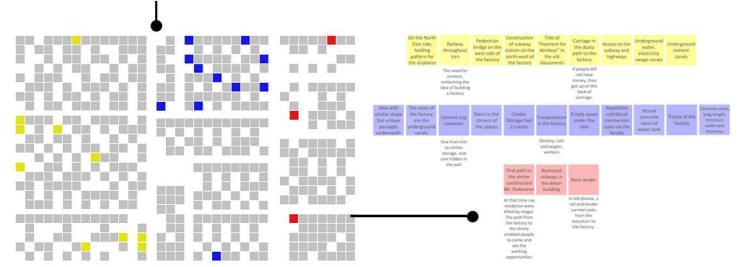


## ATMOSPHERIC VARIABLE TYPES (SENKH - سنه)

The atmosphere of  
Ray Cement Factory  
in soluble phase (A)

A portion of "A"

Disclosure of the content of a portion of "A"

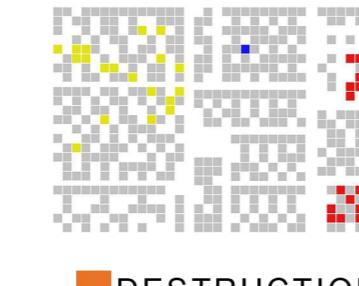


Guide to Color  
Combination Ratios

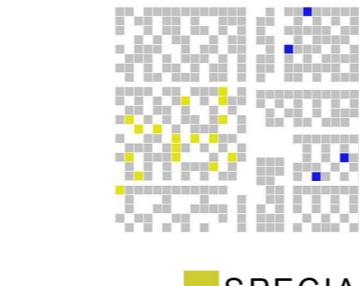
Combination Sanjaghi

Sanjaghi's constellation

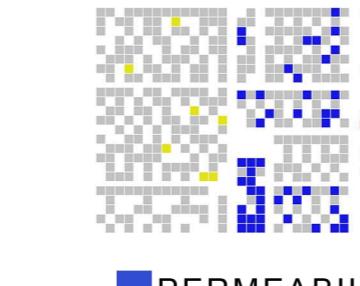
TRANSPORTATION



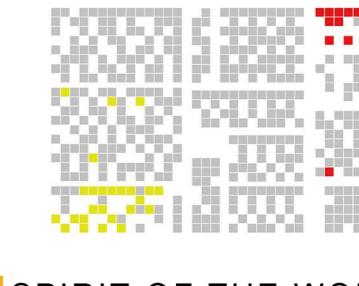
DESTRUCTION



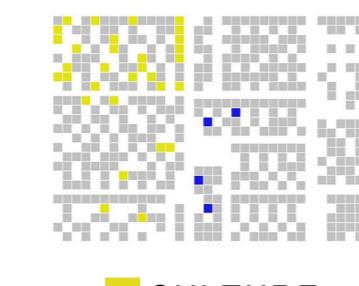
SPECIALS



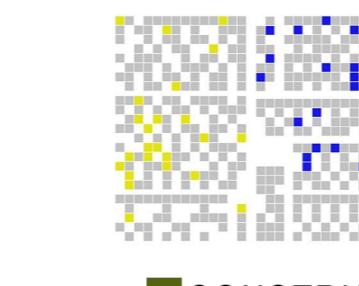
PERMEABILITY



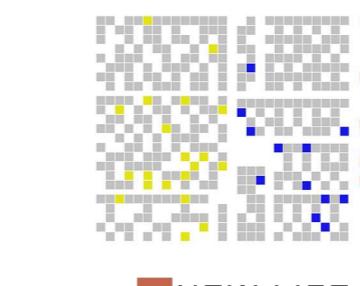
SPIRIT OF THE WORKERS



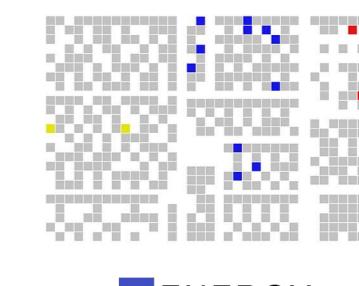
CULTURE



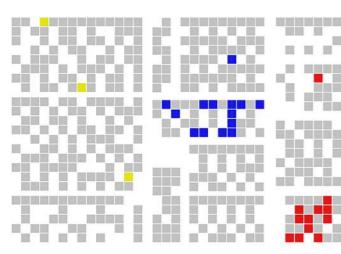
CONSTRUCTION



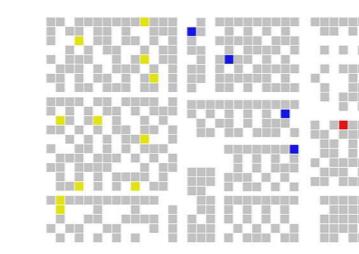
NEW LIFE



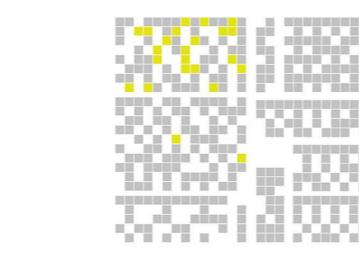
ENERGY



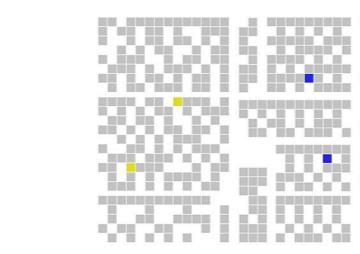
NATURE



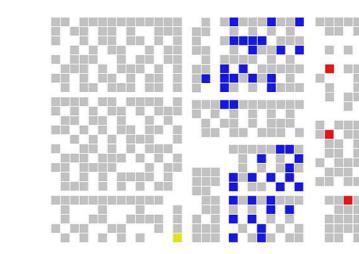
WATER



ENVIRONMENT

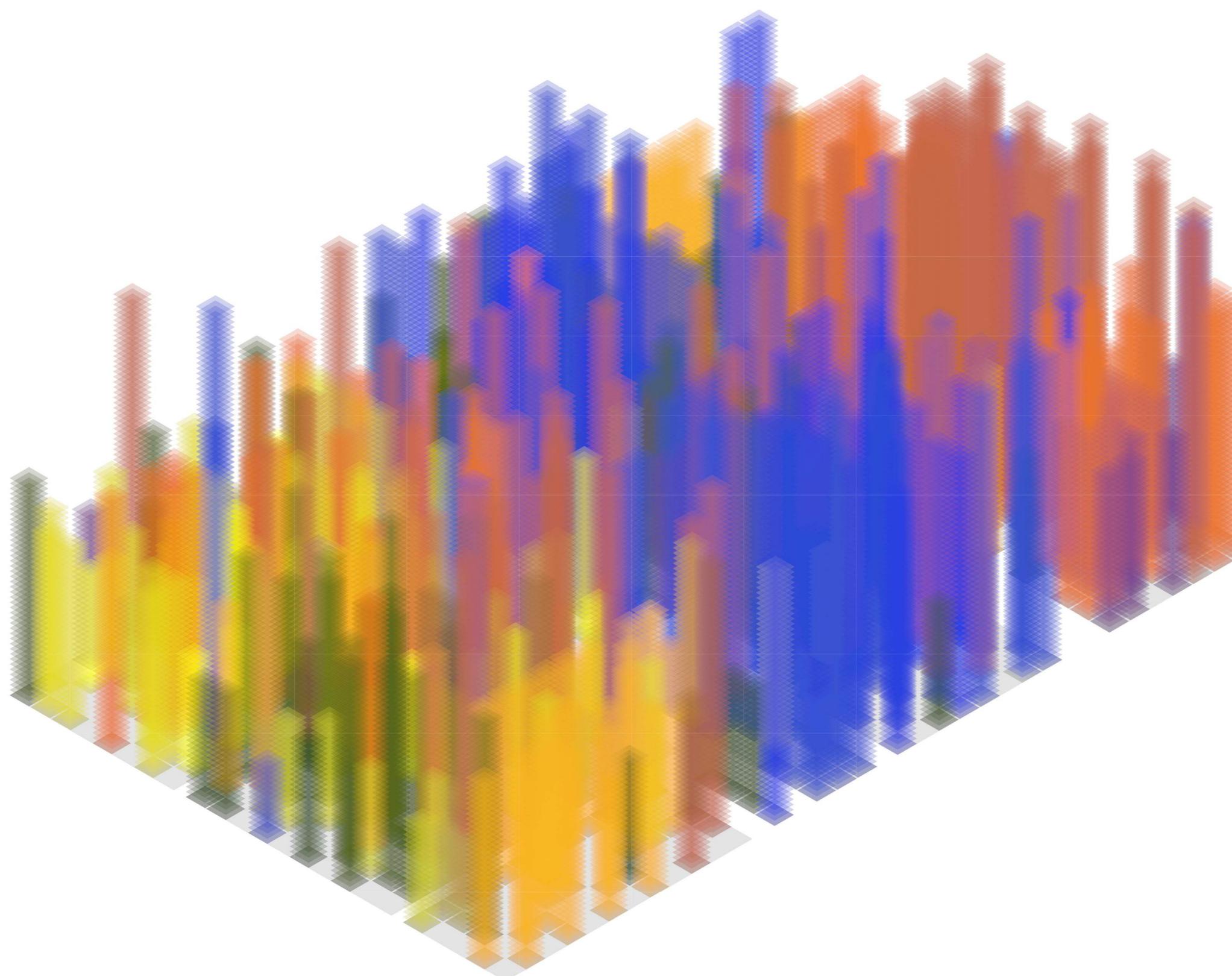


TRIPLE



STRUCTURE

EDIT  
FONT  
TYPE  
AND  
SIZE



#### REPRESENTING CONSTELLATION OF THE RAY CEMENT FACTORY ATMOSPHERE

##### 6 ORDERING RULES RESULTED FROM UNDERSTANDING THE FACTORY'S ATMOSPHERE

- 1 - GROWTH AND DEVELOPMENT (CULTURAL DEVELOPMENT)
- 2 - JOINT CONNECTION (PERMEABILITY)
- 3 - TRIPLE
- 4 - NATURE, WISDOM, AGRICULTURE
- 5 - INTERCONNECTED DOMESTIC AND INTERNATIONAL RELATIONS AND EFFECTIVENESS
- 6 - TECHNOLOGY IN THE SERVICE OF THE HUMANITY

The ordering rules or in other words **heritage**, is the constant part of the atmosphere upon which different appearances are formed.

Based on the theoretical foundations of this thesis, heritage is considered to be the ordering rules of atmosphere. Understanding and applying these ordering rules enable us to adequately (authentically, genuinely, and sufficiently) address any request for the transformation of the current atmosphere into a new atmosphere.

From the author's standpoint, the body is ordered by aura and atmosphere. So, when we know the ordering rules that serve as the connective way between the current atmosphere and new atmospheres, we can easily understand the arrangement of new possible bodies.

The atmosphere is a unified and omnipresent entity, only a part of which is represented here.

## 1. ANALYSIS

# X.X. NEW RAY CEMENT FACTORY - NEGAR - BOOM ATMOSPHERIC LAYERS / (GENS / جنس)

Roof's holes become skylights	Informal education	Seeing and being seen	Planting flowers to sell in for the new year	Haji firuz dances and plays with children		Having international programs with Turkey, Japan embassy	Keeping the residential area on the west of the factory as it is	Changing galleries and interior of the museum frequently	Azad University is willing to give the area back to the factory	Using underground tunnel for light installations		Natural light on the machinery	Open to television program studios or movie scene	Cultural, artistic, and recreational hub from local to international scales	Weekly bazar and charities for traditional events	Roof's holes become skylights	Informal education	Seeing and being seen	Planting flowers to sell in for the new year	Haji firuz dances and plays with children		Having international programs with Turkey, Japan embassy	Keeping the residential area on the west of the factory as it is	Changing galleries and interior of the museum frequently	Azad University is willing to give the area back to the factory	Using underground tunnel for light installations		Natural light on the machinery	Open to television program studios or movie scene	Cultural, artistic, and recreational hub from local to international scales	Weekly bazar and charities for traditional events		
Gathering places	Depending on the (story telling, reading books, discussion, painting, self development ) some specific parts can be used.	Sound of crowd	Green house and planting classes	A character for the new year that dances and sings in the streets	Interventions	Usually one day workshop, held in clinker storage, kiln area	Children's voice while playing	Showcase	Event-oriented public spaces	The sound of autumn leaves underfoot	Electrical building	Embracing building decay to open up spaces for visibility	With audience from Tehran and Iran	Storage to store furniture when not needed	Norouz Yalda Chaharshame souri <small>چهارشنبه سوری</small> Valentine days <small>(in foreign culture)</small> <small>نوروز یالدا چهارشنبه سوری</small>		Gathering places	Depending on the (story telling, reading books, discussion, painting, self development ) some specific parts can be used.	Sound of crowd	Green house and planting classes	A character for the new year that dances and sings in the streets	Interventions	Usually one day workshop, held in clinker storage, kiln area	Children's voice while playing	Showcase	Event-oriented public spaces	The sound of autumn leaves underfoot	Electrical building	Embracing building decay to open up spaces for visibility	With audience from Tehran and Iran	Storage to store furniture when not needed	Norouz Yalda Chaharshame souri <small>چهارشنبه سوری</small> Valentine days <small>(in foreign culture)</small> <small>نوروز یالدا چهارشنبه سوری</small>	
Movable furniture, mechanical system	Semi open area of kiln 200 and 300 ton are appropriate for this purpose	Qanat	Tehran's north south ax	Mainly are inside the buildings and minor changes would appear on the facades	Closing the clinker storage with movable panels	How the classes are set up	Transparent facades with lighting at night, people seeing art and culture	Cleaning wall scribbles	To prevent gentrification locals' cultural development is need	The big area is appropriate to have TV programs and theater salons, the south part has different levels for interactive theater of light performances	One of the branches of book store chain <small>کتابخانه های اینترنتی</small>	Sustainability	Parts of sky between buildings			Movable furniture, mechanical system	Semi open area of kiln 200 and 300 ton are appropriate for this purpose	Tehran's north south ax	Mainly are inside the buildings and minor changes would appear on the facades	Closing the clinker storage with movable panels	How the classes are set up	Transparent facades with lighting at night, people seeing art and culture	Cleaning wall scribbles	To prevent gentrification locals' cultural development is need	The big area is appropriate to have TV programs and theater salons, the south part has different levels for interactive theater of light performances	One of the branches of book store chain <small>کتابخانه های اینترنتی</small>	Sustainability	Parts of sky between buildings					
Providing people with some furniture and allow them to use the area as they want	Improving the culture of protecting heritage	Emphasizing on the entrance point and circulation's story of water	Changing office of the museum	Emphasizing more the ax with the factory's and area's development	Children's workshops	The factory's development would increase the land's price in the neighborhood	Administration office can hire teachers and enroll students or rent out the class to workers who have their own students, but looking for a place to set up a class	Connecting and strengthening green layer	Protecting the machinery moved to open area	The mechanic lab	Protect the 100 ton kiln	Production and self-sufficiency, social life, local economy	Installation layer	Sound performances		Providing people with some furniture and allow them to use the area as they want	Improving the culture of protecting heritage	Emphasizing on the entrance point and circulation's story of water	Children's workshops	The factory's development would increase the land's price in the neighborhood	Administration office can hire teachers and enroll students or rent out the class to workers who have their own students, but looking for a place to set up a class	Connecting and strengthening green layer	Protecting the machinery moved to open area	The mechanic lab	Protect the 100 ton kiln	Production and self-sufficiency, social life, local economy	Installation layer	Sound performances					
Adding elevator for the boxes on top of silos	By creating spaces that people do their activities close and inside the machinery and areas	Sun rays on the brick walls	Attaching small areas of existing offices and turns to a larger area with some dividers that do not attach to silos	Dynamism and vitality	Workshop of painting and storytelling from Shahname <small>شاهنامه</small>	The cube on 6 cement silos turns to observation point	Holding classes for mechanic student, and workshops for people	Using light weighted material like tent, balloon, glass	Skylights	Expanding the museum	Night lightening	Machinery as sculptures in the area	Part of south storages for the installation's materials, access to all over the factory	3 theater salon		Adding elevator for the boxes on top of silos	Sun rays on the brick walls	Attaching small areas of existing offices and turns to a larger area with some dividers that do not attach to silos	Dynamism and vitality	Workshop of painting and storytelling from Shahname <small>شاهنامه</small>	Small areas for selling local foods, snacks, sweet	Covering broken roof with semi transparent colorful material, to have natural light inside	Skylights	Expanding the museum	Night lightening	Machinery as sculptures in the area	Covering broken roof with semi transparent colorful material, to have natural light inside	3 theater salon	Protecting strengthening heritage is deeply rooted in people's souls				
Small areas for selling local foods, snacks, sweet	In a new machinery and areas	Coffee shop		Productivity			Movable panels to close and divide the areas	Cozy botanical garden	Self-organization	People singing and dancing		Multifunctional purpose for reusing the factory		Protecting, strengthening heritage is deeply rooted in people's souls																			
corn, beetroot, soups, ash <small>آش</small> , different foods prepared by local woman	Plants with pots in kilns' areas		Having variety in sitting areas, sitting on the ground, lying on a couch or sitting behind a table, with cozy ambience. For example the open area in front of grain building is for coffee shop, 2 of them serve fast food, and one is a juice bar.	Having classes in the maintenance area's gardens	Producing agricultural goods (fruit and vegetable), artworks by locals	Small of sweets, homemade food, agricultural goods	Cement silos turn to galleries	For children and interested individuals, with educational purpose	Giving an artist look to the store selling mechanical system canals	Different paths for different festivals	Raw material silos turn to small private cinema	Covering factory's expenses with the factory's own programs and activities	Using cement bases for showing artworks	Factory's annual birthday party	Yoga days																		
Vibrant environment	Projecting movies and images of the museum on the walls																																
Event oriented - museum																																	
No specific limitation for the museum, the museum is not just for preserving the machinery, is allocated to the various events for the public and artists	Allocating some parts of the factory to the city without security	minimizing added new walls that divides spaces	Planting trees and harvesting	Based on the existing condition, first the ground expands and then some cultural areas will be added.	Creativity	Birds' singing	Removing barriers, canal street, linking green areas, linking historical area	Using the same parking area for the workers	Linking the store selling mechanical system canals to the factory, with some designed colorful canals starting from the stores and ending in the factory	Expanding through time and attaching sold parts to the factory	Using audios to tell the stories of the factory	Keeping achieve area as it is designed	A large controlled area for a gallery	Telling the factory's story with the workers silhouette...	Achievement and capability	Tehran's yoga day could happen in the open or closed area of the factory	Vibrant environment	Projecting movies and images of the museum on the walls	Keeping the spiritual area between 4 silos	Reusing the factory through time	Improves cultural awareness, boosts community spirit	Small areas for selling local foods, snacks, sweet	Having classes in the maintenance area's gardens	Smell of sweets, homemade food, agricultural goods	Cement silos turn to galleries	For children and interested individuals, with educational purpose	Giving an artist look to the store selling mechanical system canals	Different paths for different festivals	Raw material silos turn to small private cinema	Using cement bases for showing artworks	Factory's annual birthday party	Yoga days	Tehran's yoga day could happen in the open or closed area of the factory
Emphasizing on historical points	New experiences	The empty south area will turn back for this purpose.	Colorful interior	Gathering places, workshops, event-oriented public spaces	Urban agriculture	Planting mainly grapes needs small amount of water	Bike and walk path	Recovering the factory's connection with the context	Connecting with traditional places in the area	Light and shadow	By attaching 100 and 200 ton cement silos to cement grinder	Jobs opportunities, productivity, financial independency	Getting back south side			Event oriented - museum	Completing the machinery with wire	Based on the existing condition, first the ground expands and then some cultural areas will be added.	Plants with pots in kilns' areas	Having classes in the maintenance area's gardens	Smell of sweets, homemade food, agricultural goods	Using patterns and colorful glass to form the sight passing through the holes in walls and roofs	During abundance, to use the factory as a storage, some spans and windows were closed, such as 100 and 200 ton kiln, the corridor in the raw material grinder	Factory's annual birthday party	Using cement bases for showing artworks	Factory's annual birthday party	Yoga days						
Getting back the old cement producing moquette	Connecting historical and cultural areas with creating an area for the windows that historical places are visible from.	Projecting football matches in clinker storage		Ticket office	Streets musicians are welcome to use the area	People's participation in urban agriculture and protecting green area specially elderly	Adding plants with pots to the main ax	Changing to a specific function as a tea house	Tranquility																								
Cooperation with local for the installations	Creating frame on the windows with special views	Performance's lighting is visible from outside	For the museum, small botanical garden, cinema	Getting back the storage and open area on the north																													
Artists getting experienced locals (tailors, carpenters) to make their idea	Local library	Considering the fifth facade	Buildings look like a light box in the night	Keeping the existing museum area as they are																													
Using triple in the interventions																																	
3 interior gardens	Accommodation for artists coming from long distance or abroad	Checking the strengthen of the structure	Mainly outside of the factory, and they send to the coffee shops	Night life	Colorful furniture	TV shows, open gathering areas, event-oriented spaces...	Installation/ galleries with the theme of each festival	Keeping the new glass roof behind the diesel generator	That move and show traditions	Open area on north of the factory becomes a public place	Selling handmade artworks for different festivals	One day workshops	Providing more cultural and welfare facilities	Connecting welding area on the south with the installation programs	Water show	Raising people's awareness about organic cultivation		Using triple in the interventions	Using triple in the interventions	View toward Reshan Castle from electrical building's roof, ...	People being present in urban areas	Gift shops	Sound of water	Movable structure for the theater	Storing areas for waste iron pieces								

REPRESENTING C  
ATMOSPHERE OF  
The atmospheric transform  
Ordering rules.  
The new atmosphere is  
atmosphere

REMAINING THE SAME
BODY CHANGES
FLEXIBLE CHANGES
SENSORY CHANGES
FUNCTIONAL CHANGES
EFFECT

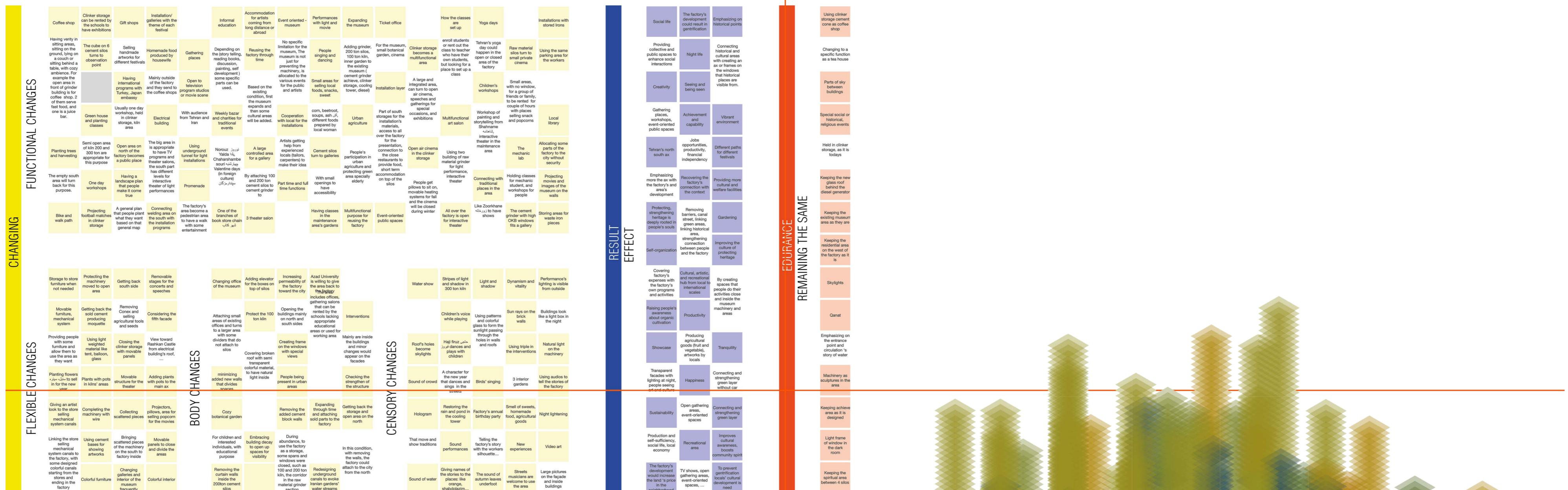
# REPRESENTING CONSTELLATION OF THE NEW ATMOSPHERE OF RAY CEMENT FACTORY

The atmospheric transformation that is represented is in accordance with ordering rules.

The new atmosphere is created through the same way as the existing atmosphere

# 1. ANALYSIS

## X.X. ATMOSPHERIC LAYERS / (GENS / جنس) IN UPPER LEVEL AFTER INTERVENTION



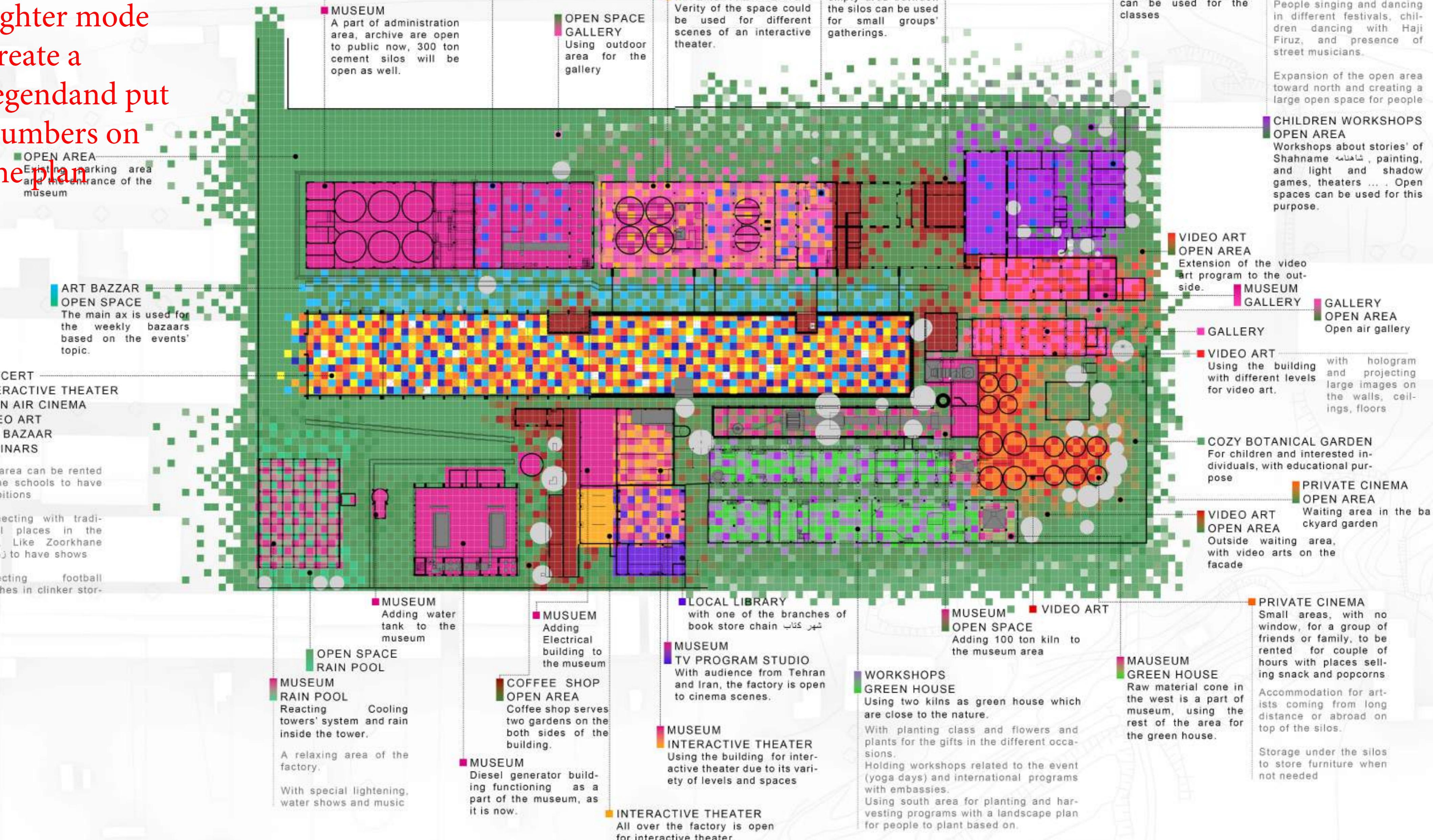
### REPRESENTING CONSTELLATION OF THE NEW ATMOSPHERE OF RAY CEMENT FACTORY

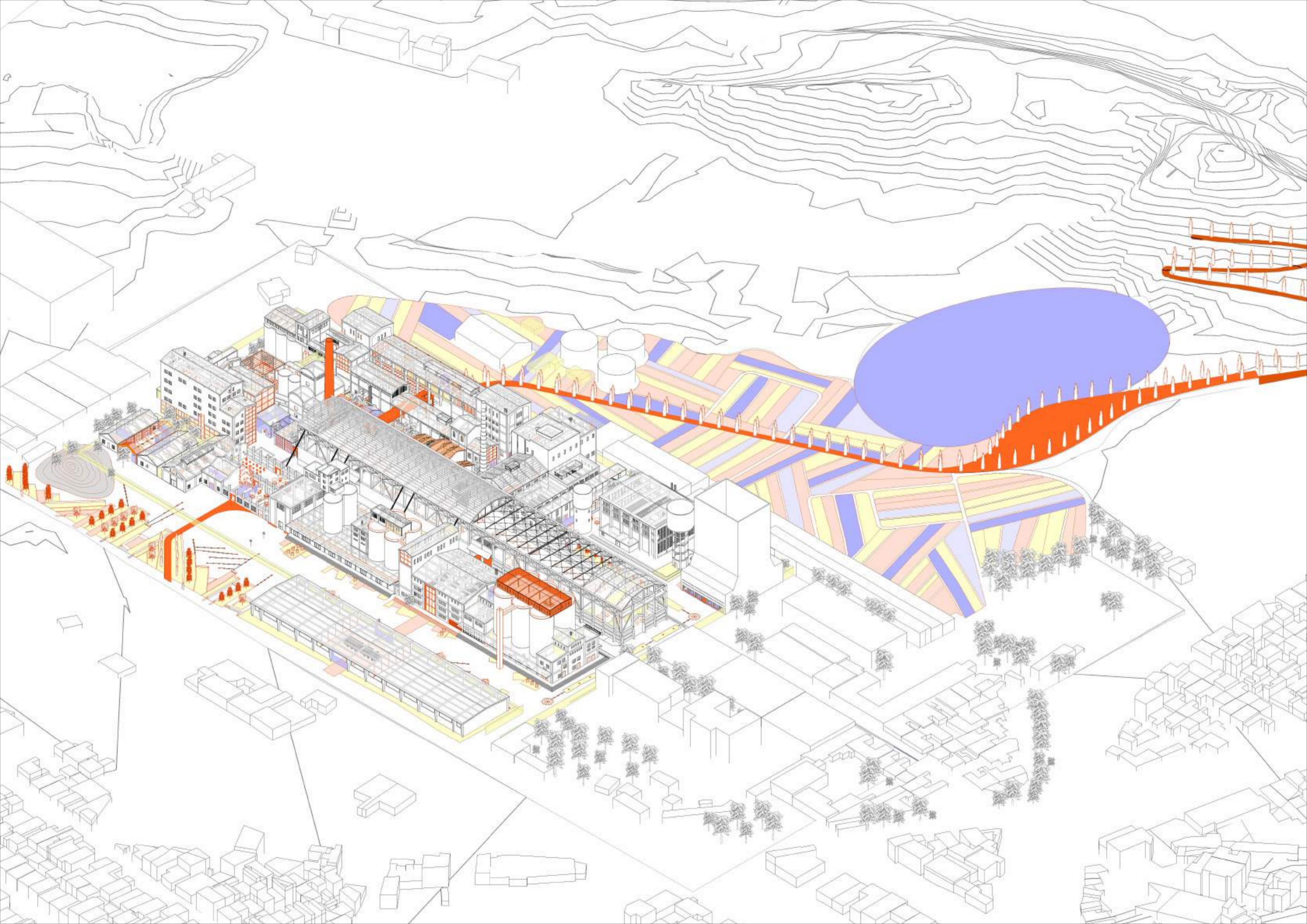
The atmospheric transformation that is represented is in accordance with ordering rules.

The new atmosphere is created through the same way as the existing atmosphere

## ALLOCATING FUNCTIONS

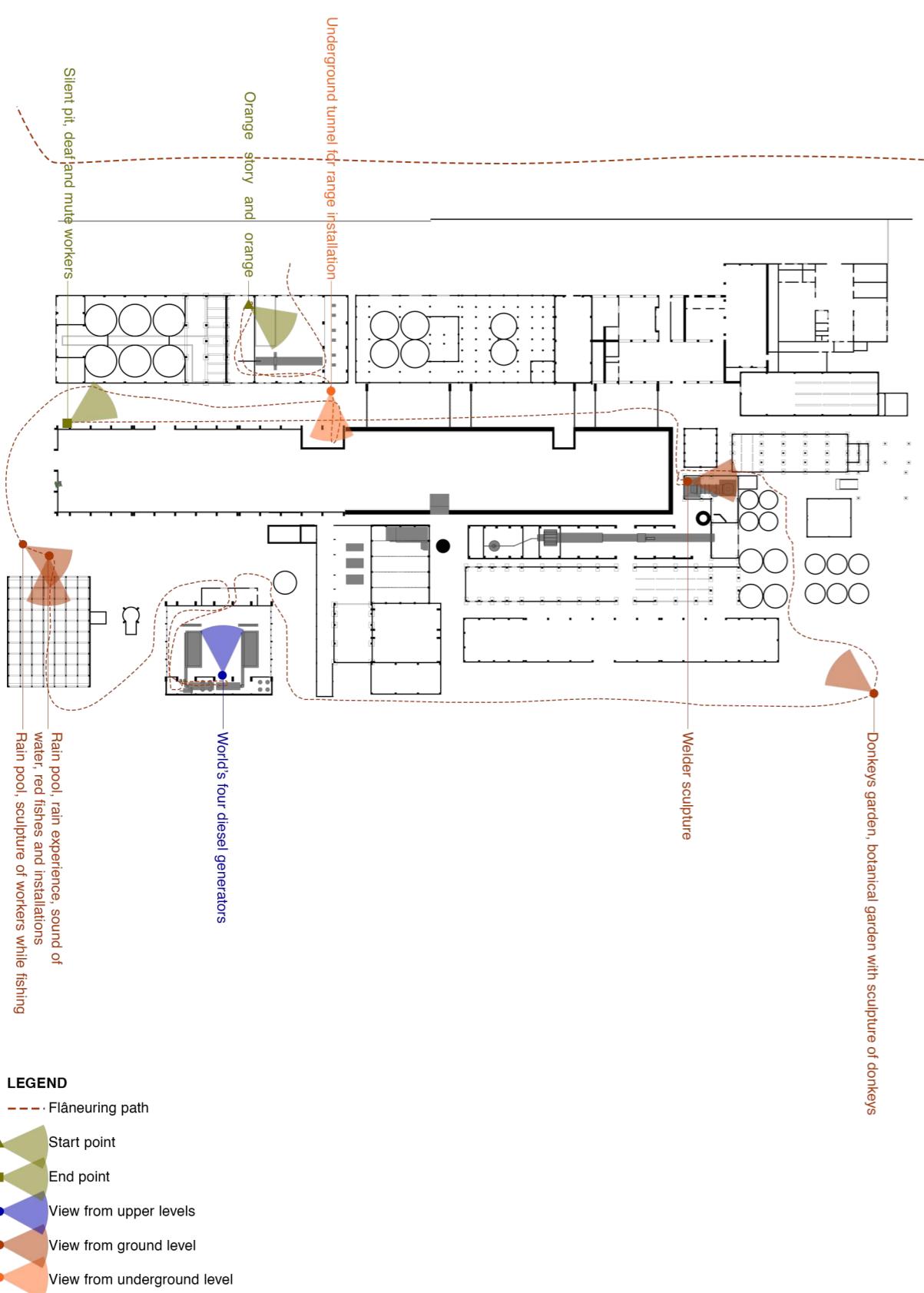
change to the colors to lighter mode  
create a legend and put numbers on the plan





# EDIT IMAGE

## FLÂNEURING FOR STORIES OF THE FACTORY



### ORANGE STORY

**STORY:**  
On the opening day, at 4 p.m., Reza shah gave some oranges to the workers, and they didn't know what an orange was. They smelled and someone told them how to eat the orange.

### NARRATIVE:

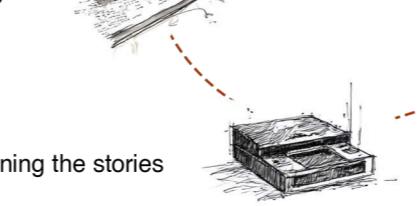
Having an artificial huge orange tree in the building.



Visitors writing down their stories or experience about the factory



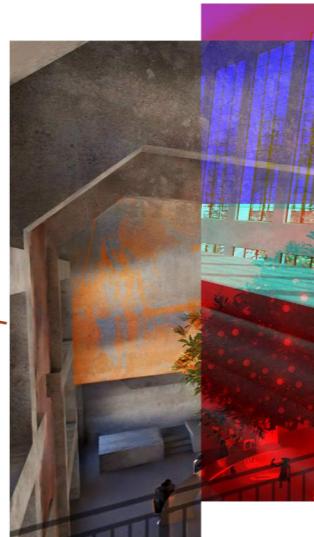
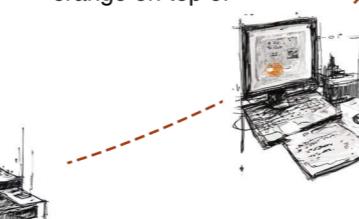
### Scanning the stories



### The orange with a story will lit.



### Linking stories to the orange on top of the tree



### FOUR DIESEL GENERATORS

**STORY:**  
There are two diesel generators in the factory. Only two of these four are generators of this types in the world. One sank with the ship.

### NARRATIVE:

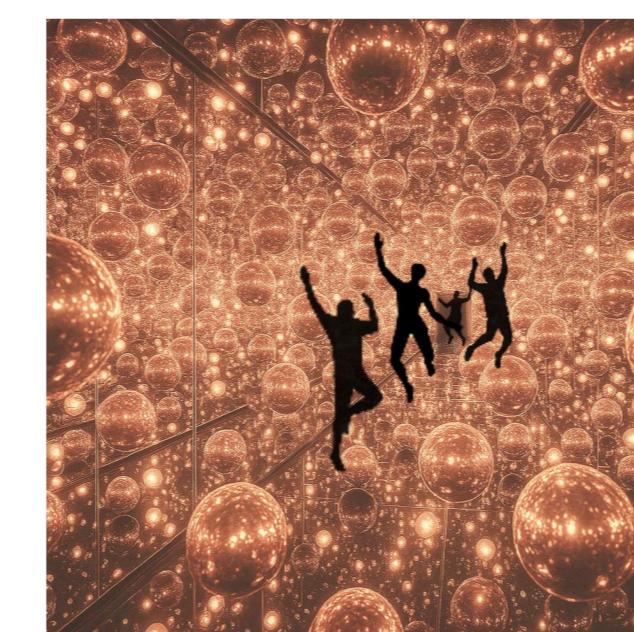
Two concave mirror will be installed in front of the four diesel generators. On one mirror, there is a smaller image of them. On one mirror, there is a sentence stating that one of the four diesel generators is located here. On the other one, there is another sentence explaining that one of the four diesel generators is located here. People will notice that the remaining diesel generators are still working.



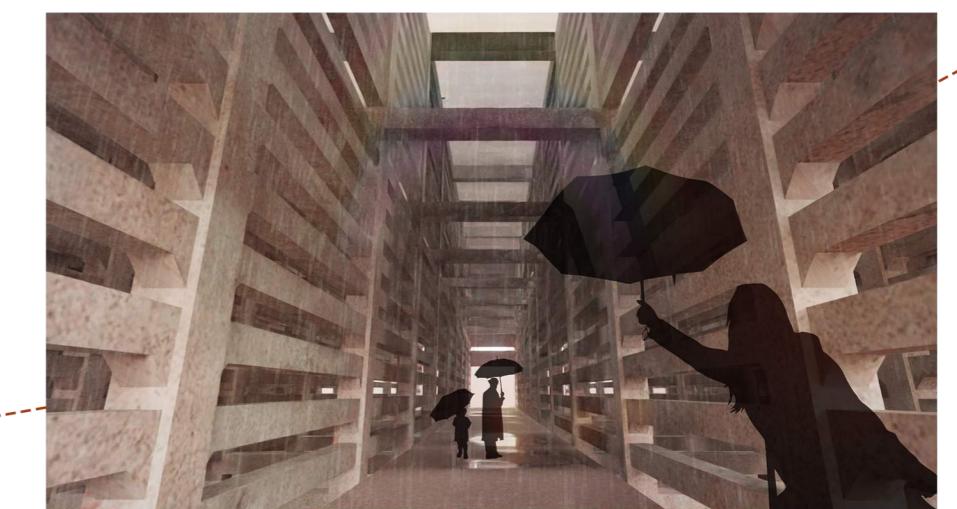
installations in the factory and based on the people's experiences some development can happen throughout the factory.

**NARRATIVE:**  
There is an underground passage full of floating balls. The balls are floating with a gentle blow of mechanical system.

When people touch the balls, they release orange scent and light up.



**NARRATIVE:**  
Restoring the cooling tower to its original condition, creates the rain effect inside and sometimes rainbow as sun ray passes through the droplets.

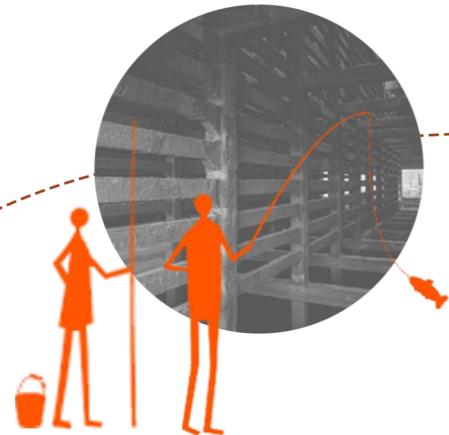


### RAIN POOL

**STORY:**  
Water was poured down into the cooling tower to be chilled, creating a scene that looked like it was raining.



RAIN POOL  
STORY:  
Fishes coming from qanat were caught by the workers



NARRATIVE:  
Red fishes with their cultural significance in Iran inside the pool evokes the fishing memory  
There are sculptures of works while fishing. Empty sculpture that people can take picture with.  
There can be voice of the workers talking about catching fish and installations of red fishes, or projection of the walls.



FOUR DIESEL GENERATORS  
STORY:  
There are two diesel generators in the factory. Only there are 4 diesel generators of this types in the world. One sank with the Titanic; and one is in Turkey.

NARRATIVE:  
Two concave mirror will be installed in front of the generators to reflect smaller image of them. On one mirror, there is an outline of Turkey country's border with the sentence stating that one of the four diesel generators is located here. On the other one, there is an image of Titanic, with the sentence explaining that one of the four diesel generator was aboard the ship. People will notice that the remaining diesel generators are the ones behind them.

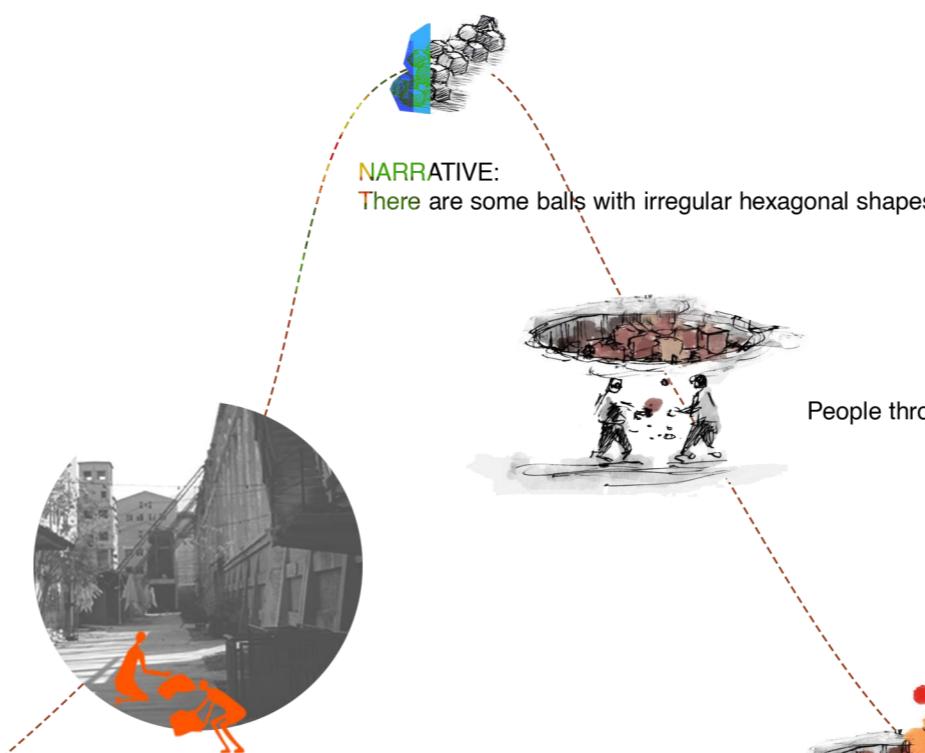
SCULPTURES  
STORY:  
Illiterate workers become experienced expert. initially a worker just put oil on 100ton kiln. A worker become so experience that repaired a grinder machine with welding. Donkeys of the factory were used for transportation.



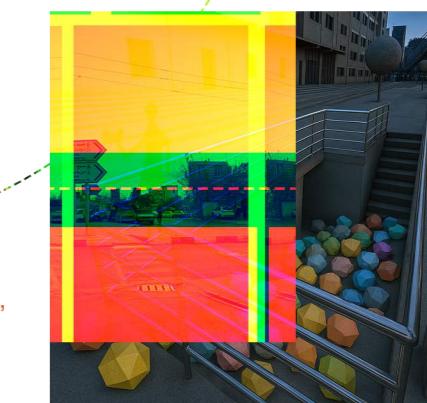
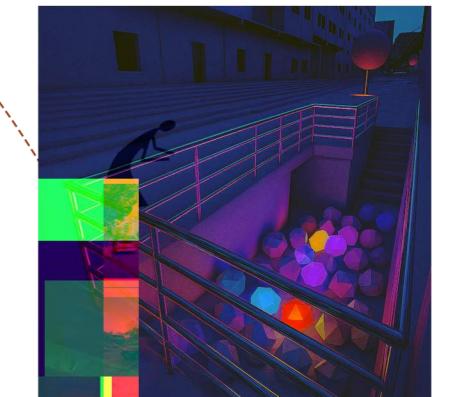
NARRATIVE:  
short stories will have a sculpture that people can use the sculpture to be in their position to take a picture to experience the existing memory and create a new memory for themselves.



SILENT WELL  
STORY:  
A deaf and mute workers broke down the extracted stones from the mountain

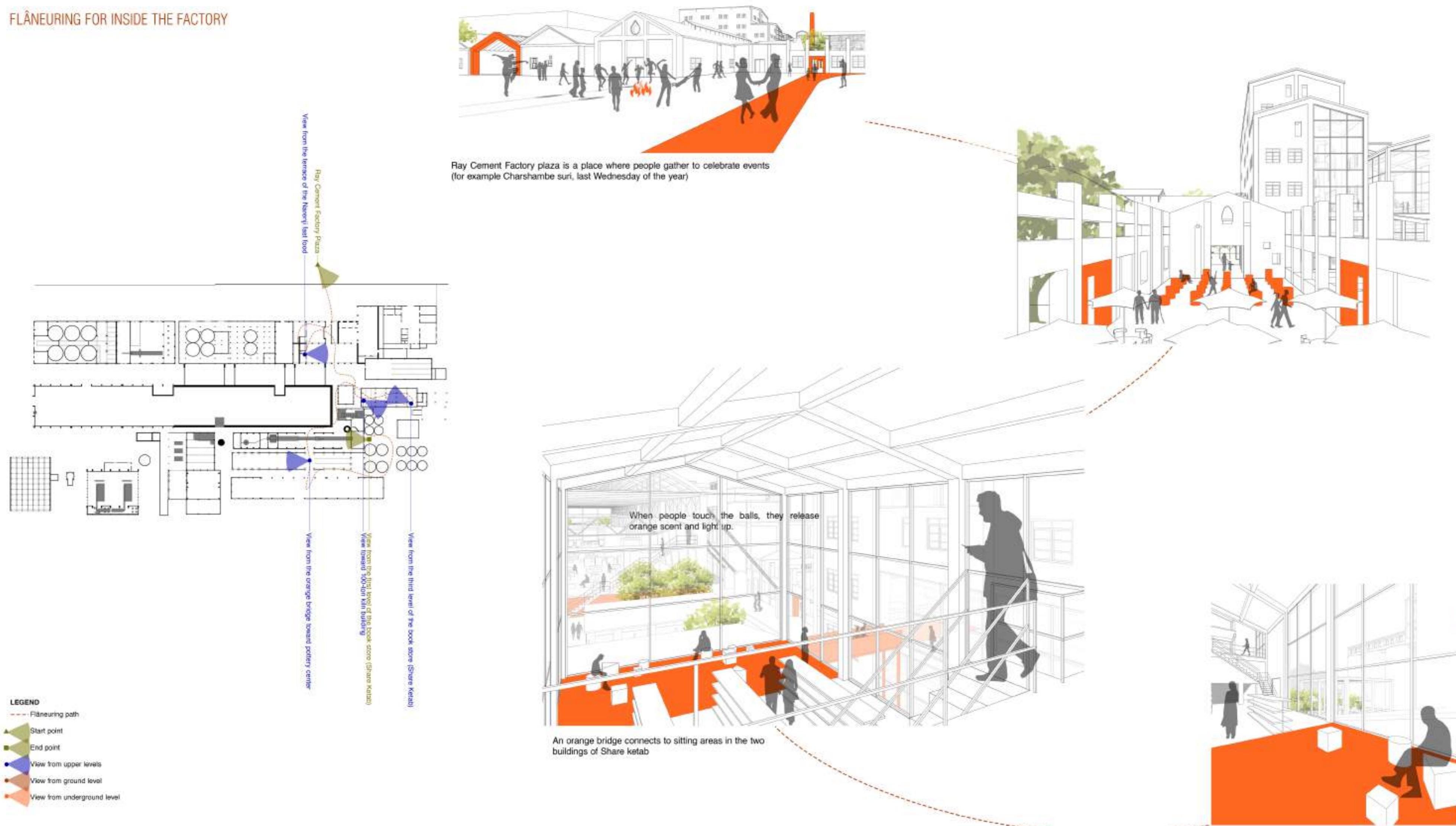


The silent balls illustrate the silent world of the deaf and mute workers, and when they glow, it shows the value of their work.

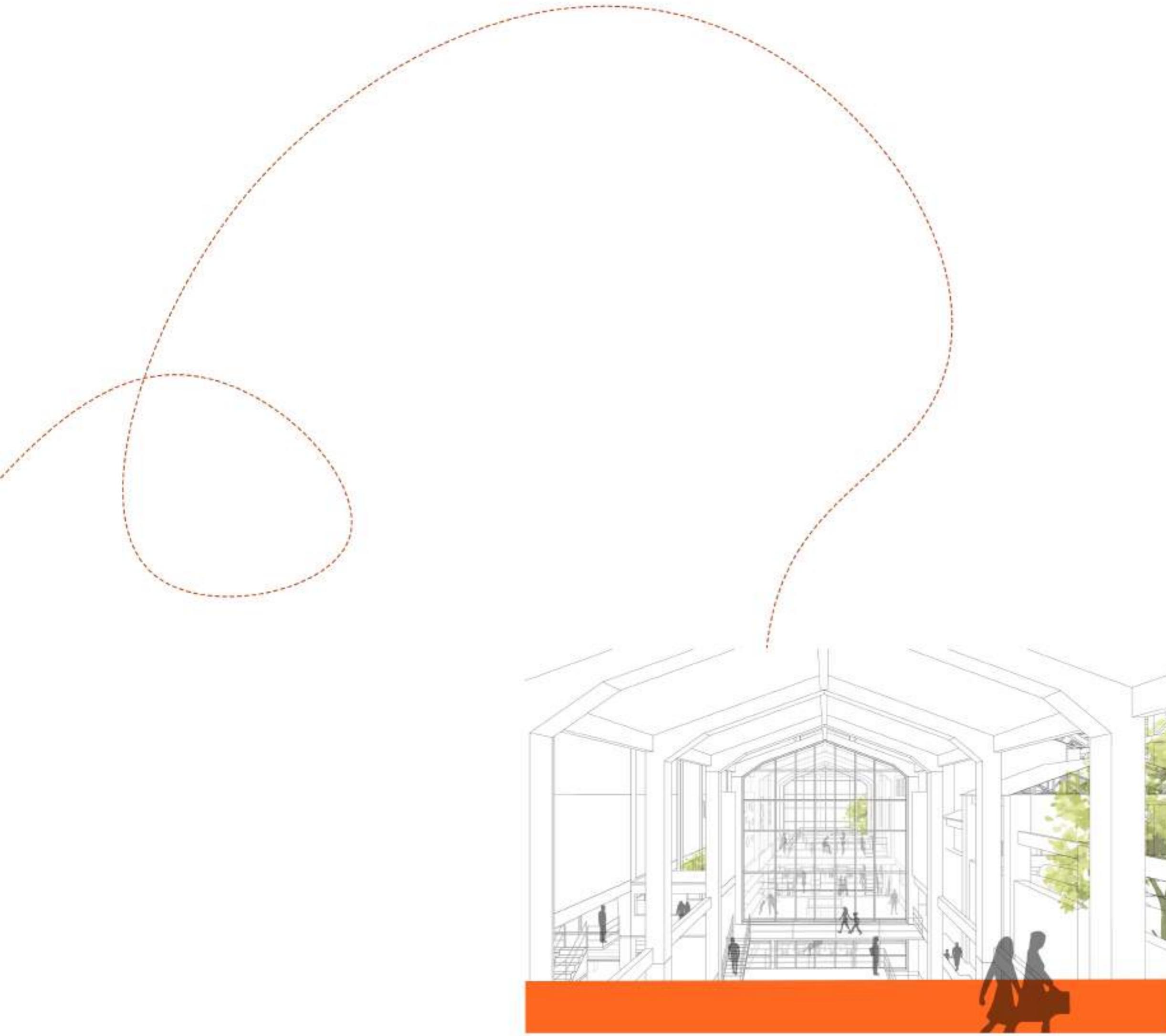


EDIT IMAGE

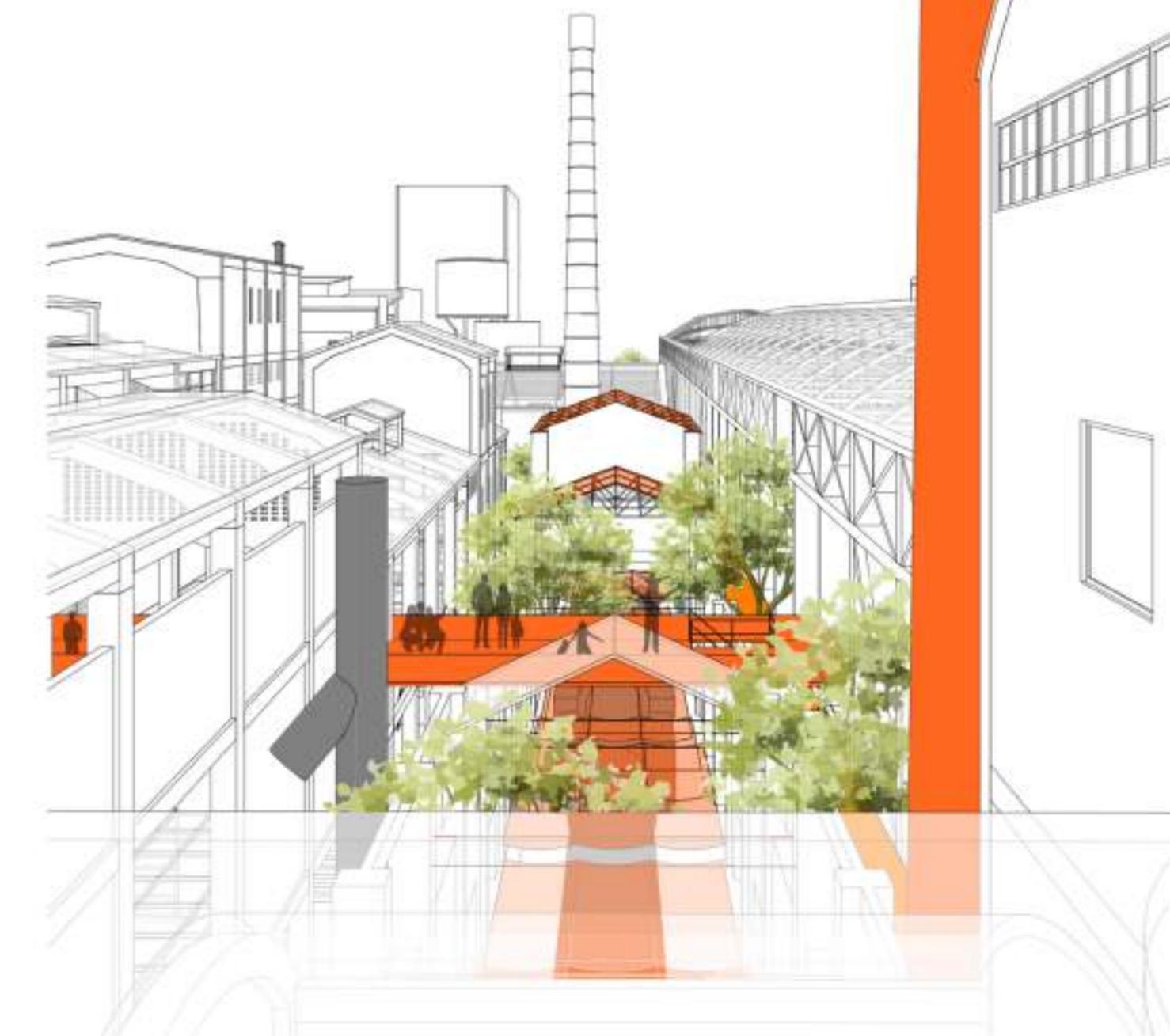
## FLÂNEURING FOR INSIDE THE FACTORY



add more  
images



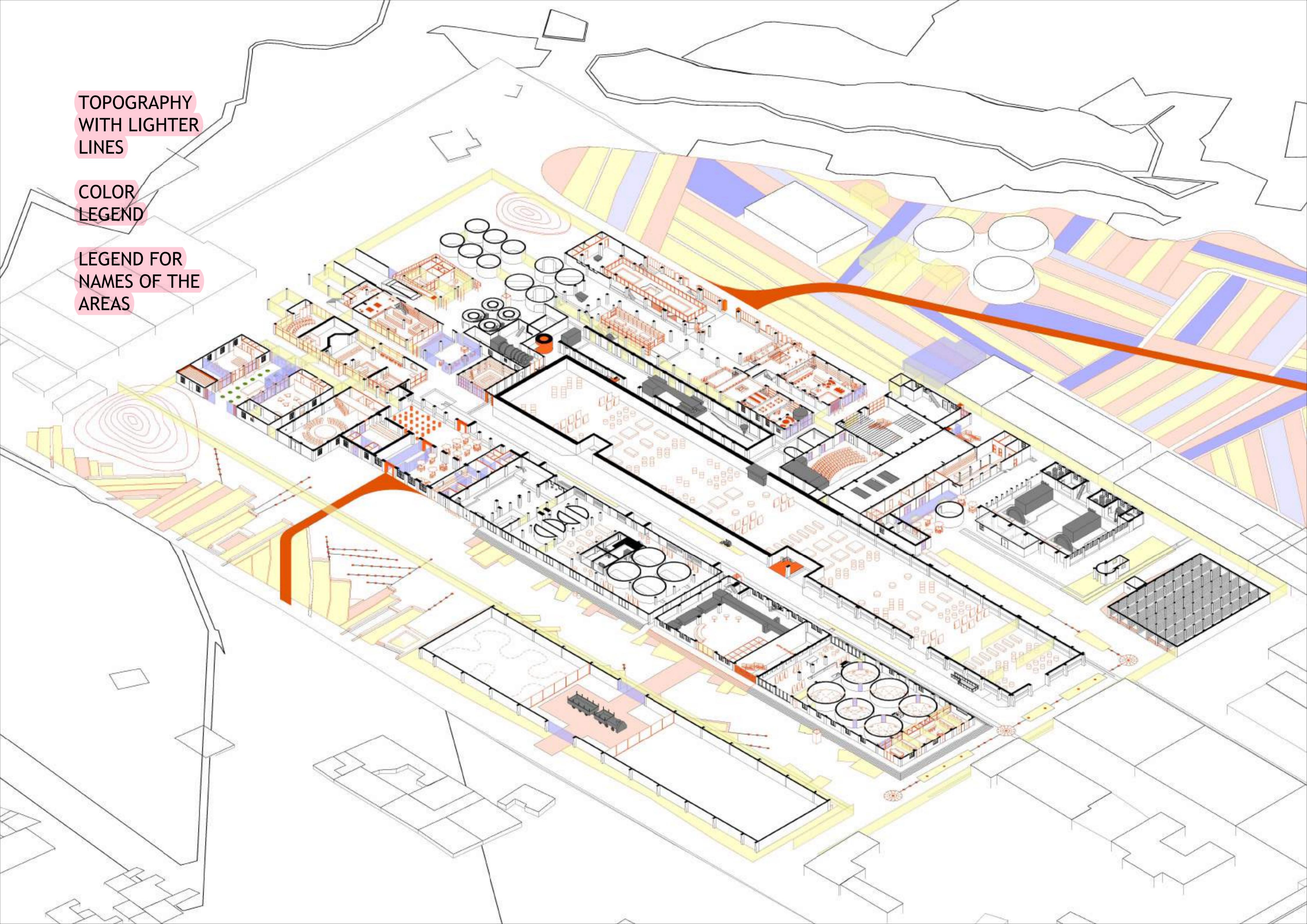
This area is the symbol of the factory's spirit, it makes us feel sublime. the k100-ton kiln will be protected with some removable sheets

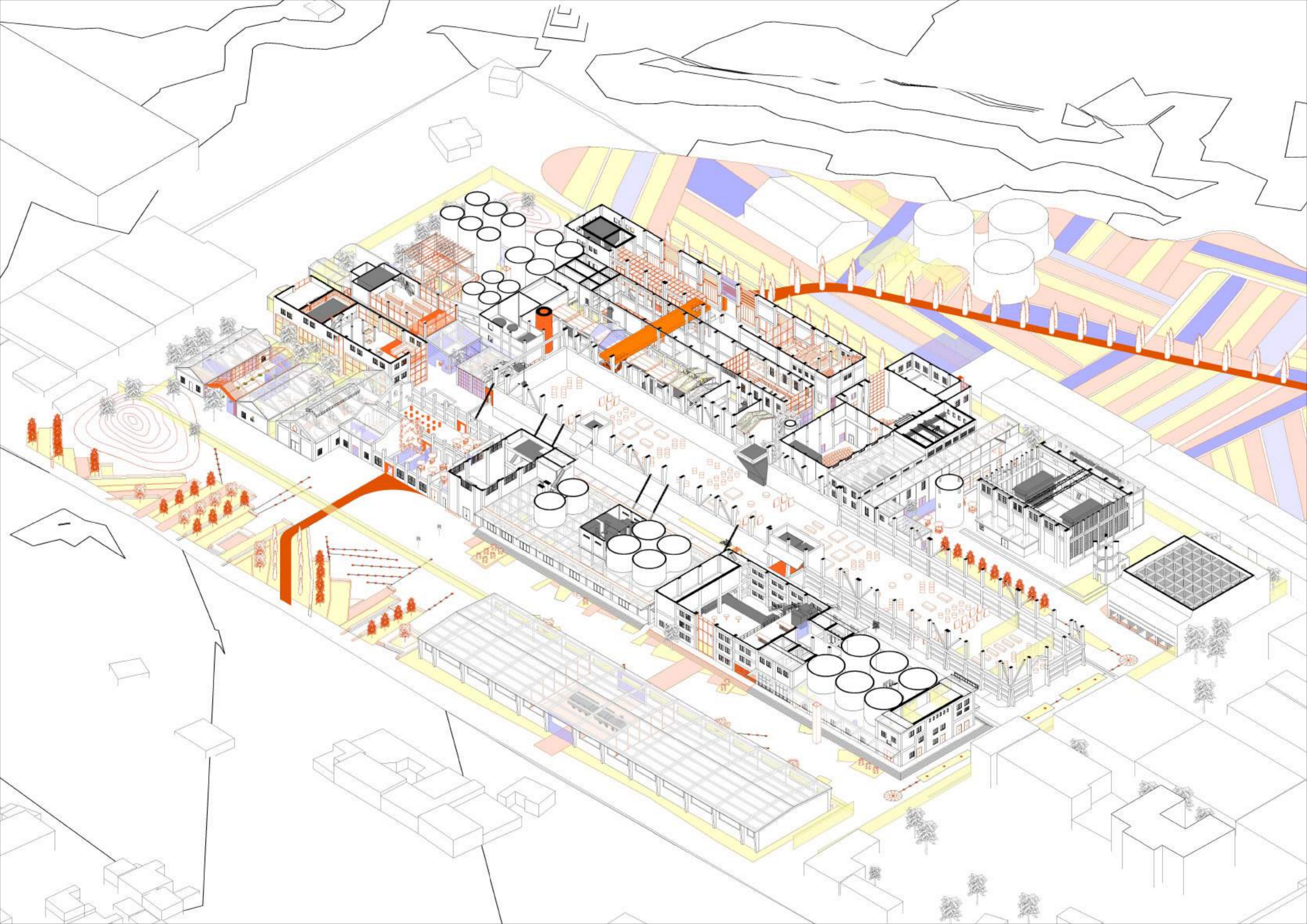


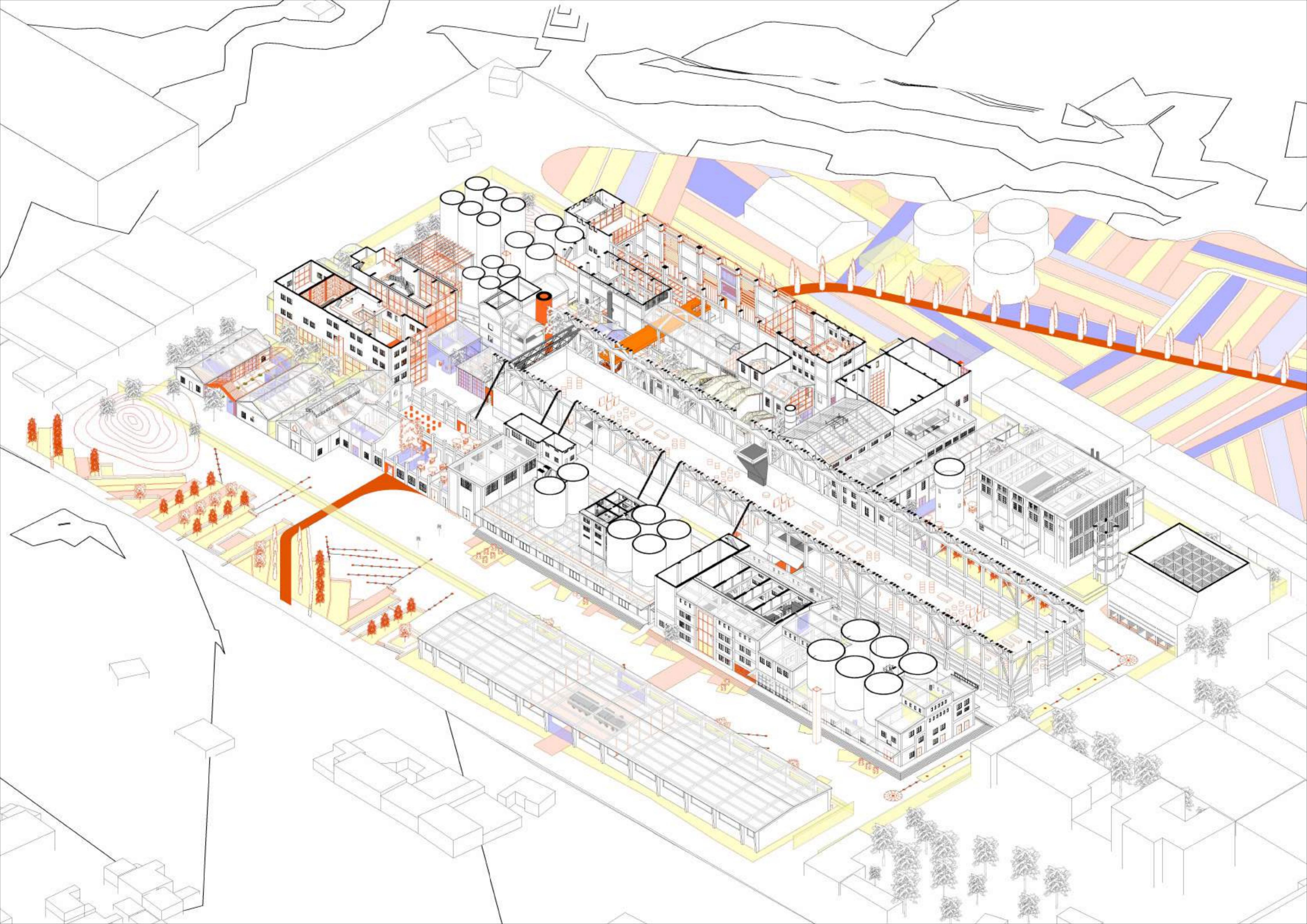
TOPOGRAPHY  
WITH LIGHTER  
LINES

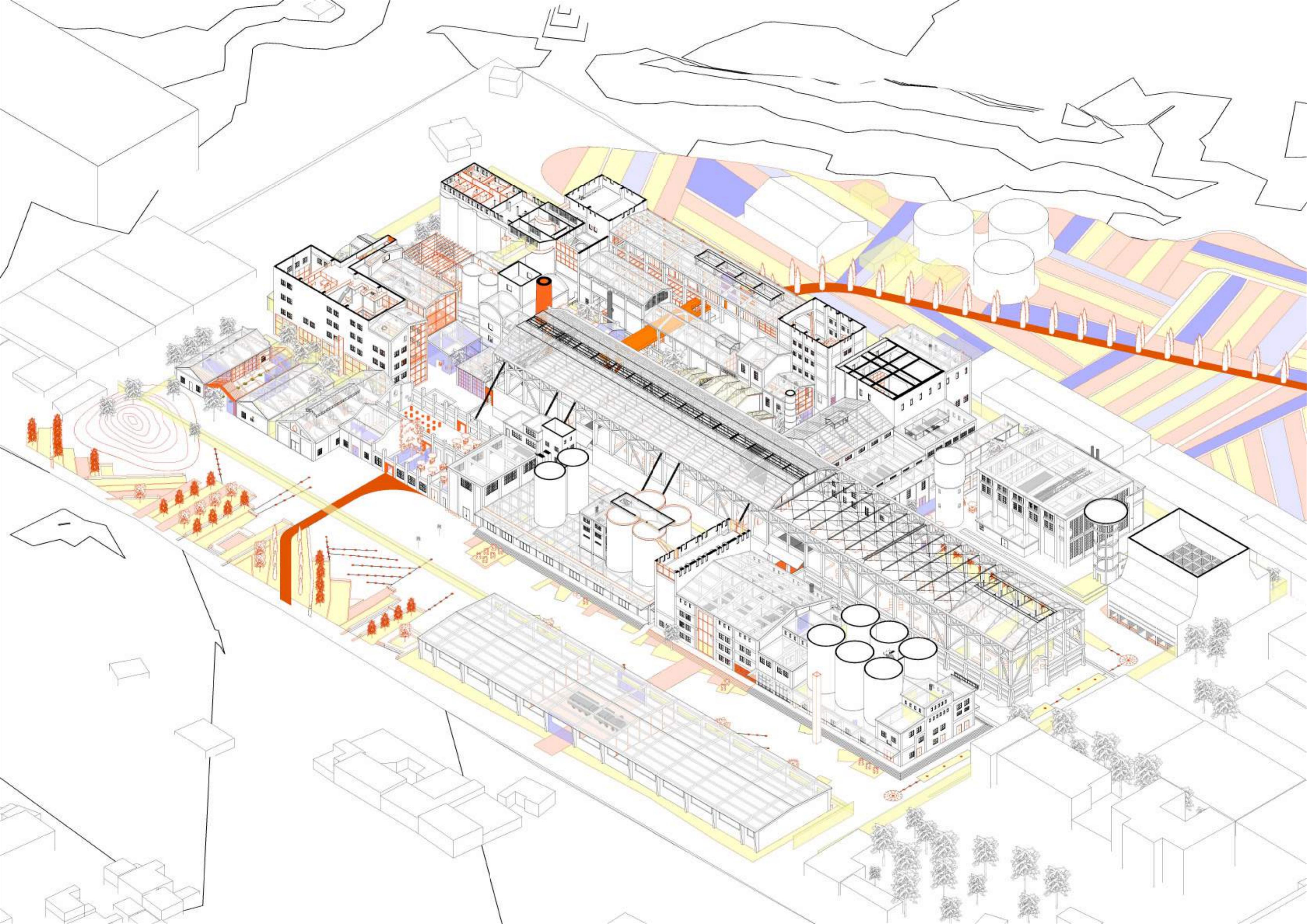
COLOR  
LEGEND

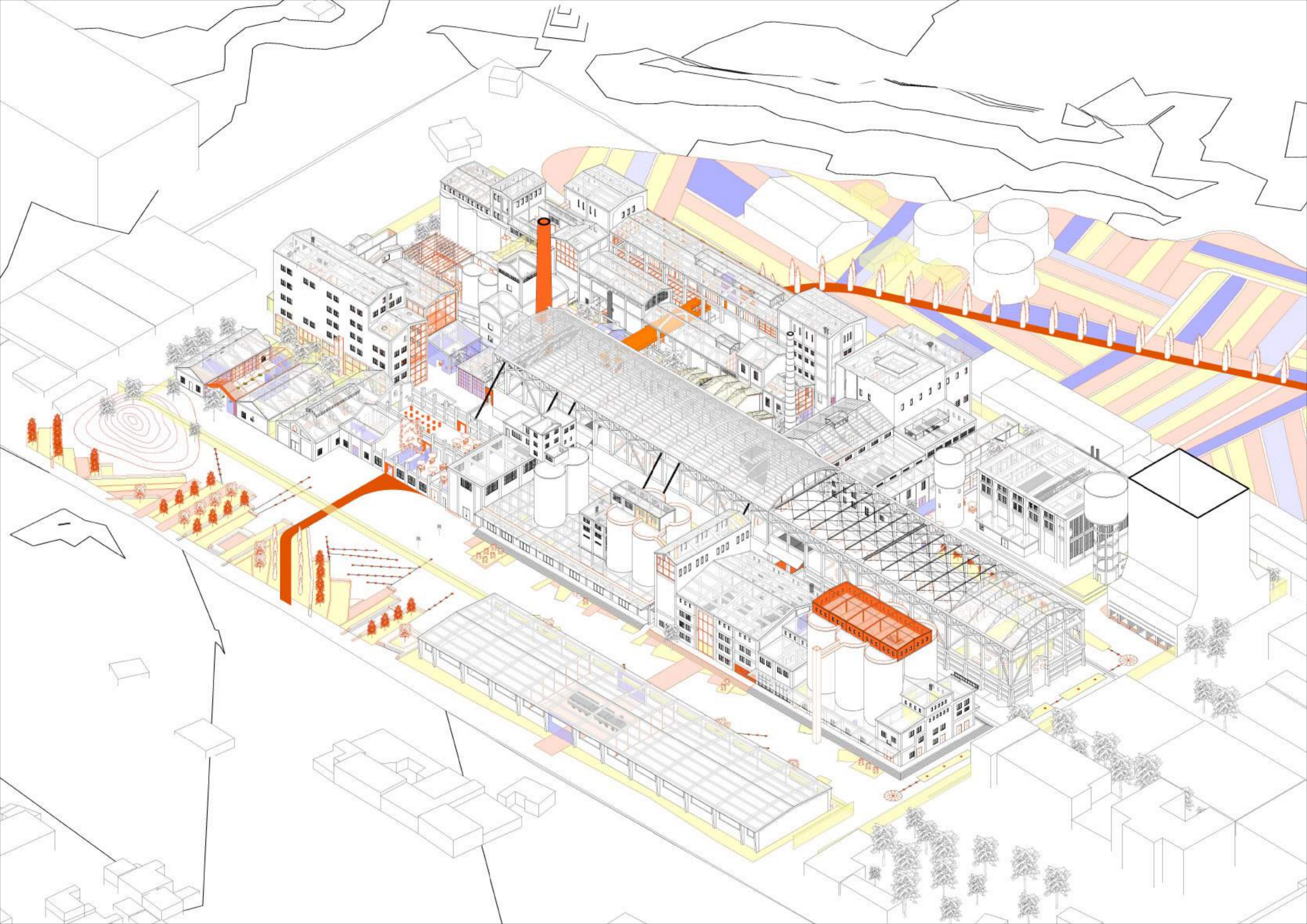
LEGEND FOR  
NAMES OF THE  
AREAS













REY MUSEUM  
1 Ray history museum  
RAY CEMENT FACTORY FORECOURT  
2 Temporary open-air exhibitions based on the events

300-TON CEMENT SILOS  
3 Site-view stage  
4 Cement museum

RAY CEMENT FACTORY STREET  
5 Stem pit (in memory of the deaf and mute worker)

CLINKER STORAGE  
6 Multi-functional area for installations, exhibitions, concerts, gatherings

RAIN COURTYARD  
7 Outdoor sitting area

COOLING TOWER  
8 Rain experience, red fish pool and installation area (in memory of the fishing story)

CRAFT WORKSHOPS AND STORAGE  
9 Mechanical and fabrication, sewing, carpentry ...

URBAN FARMING  
10 Planting area for citizens

LAKE  
11 Existing excavation pit used to collect water for the urban farming

add key plan

REY MUSEUM  
1 Teharn first train  
2 Sculpture of playing children (in memory of the first train)  
RAY CEMENT FACTORY FORECOURT  
3 Temporary open-air exhibitions based on the events

300-TON CEMENT SILOS  
4 Site-view stage toward the old city wall  
5 Museum corridor  
6 Cement museum (movie and photo presentation area)

7 Archive corridor

RAY CEMENT FACTORY STREET  
8 Main axis of the factory toward the city  
9 Presenting machinery of the factory

CLINKER STORAGE

10 Existing concrete hopper  
11 Multi-functional area for installations, exhibitions, concerts, gatherings

RAIN COURTYARD

12 Outdoor sitting area

DIESEL GENERATOR MUSEUM  
13 Siemens diesel generator

14 Mirror installation (in memory of Titanic and the four diesel generators)

CRAFT WORKSHOPS AND STORAGE  
15 Mechanical and fabrication, sewing, carpentry ...

URBAN FARMING  
16 Planting area for citizens



Dry Deck Fountain  
create freshness and an interactive space



Fish installation (Architect: Xu Bing – Phoenix installation at St. John's Tower, New York, 2022. Accessed Nov 2025)



Water effect for the whole tower (teamLab: Universe of Water Particles in the Tank, TANK Shanghai, 2019)



Art installation for different events (StarsSystem Magazine, Stephen Knapp – Lightpainting installation, July 2025. Accessed Nov 2025 )



Red fish for new year (iStock / Getty Images, View of fish swimming in lake, accessed Nov 2025 )



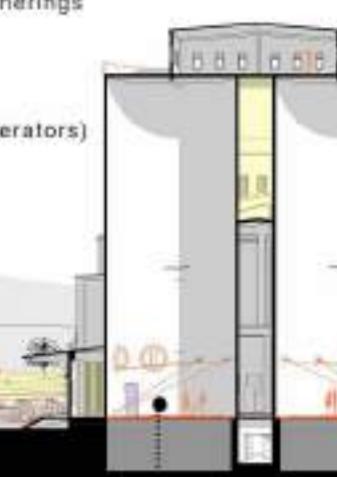
Interactive instalation in which fishes are attracted to the coins thrown in the pool



Borage Cornflower Cotton Lavender Peppermint Verbena



Play and entertainment space between agricultural plots



Curved panel to present the movies and photos of the factory in the museum (EIKI Projectors, Curved projection setup with immersive digital scene, 2021. Accessed Nov 2025 )



Jujube Shrub



Grape Sunflower Tomato Cucumber Eggplant Common mallow Hyssop

REY MUSEUM  
1 Ray history museum  
RAY CEMENT FACTORY FORECOURT  
2 Temporary open-air exhibitions based on the events

CEMENT MILL BUILDING  
3 Site-view stage  
4 Memory installation

5 Existing concrete hopper

RAY CEMENT FACTORY STREET  
6 Presenting machinery of the factory  
7 Orange underground passage (in memory of the orange story)

8 Orange Bar (orange juice, cake, chocolate ...)

CLINKER STORAGE

9 Multi-functional area for installations, exhibitions, concerts, gatherings

10 Existing concrete hopper

POWER HOUSE AND TURBINE HALL  
11 Turbine (existing machinery of the factory)

12 Waiting area

13 Mechanical room and storage

14 Backstage

15 Theater hall

16 Open-air waiting area

CRAFT WORKSHOPS AND STORAGE  
17 Mechanical and fabrication, sewing, carpentry ...

URBAN FARMING

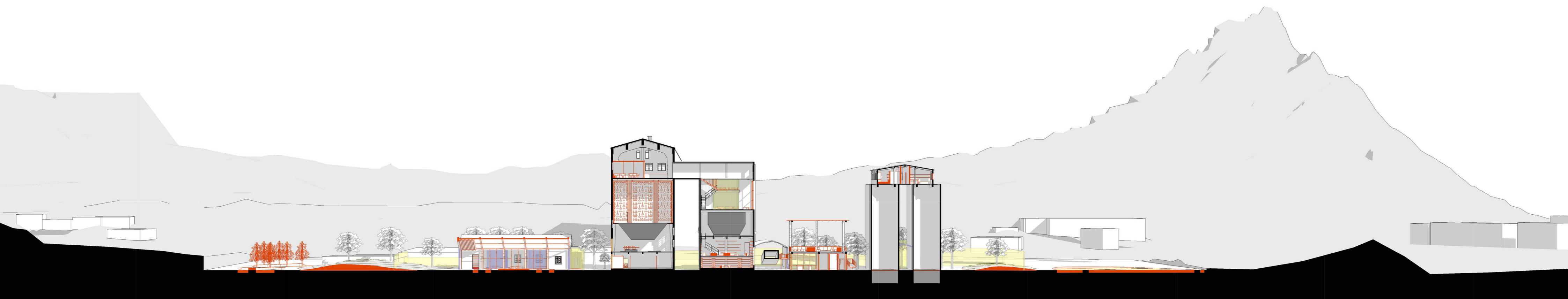
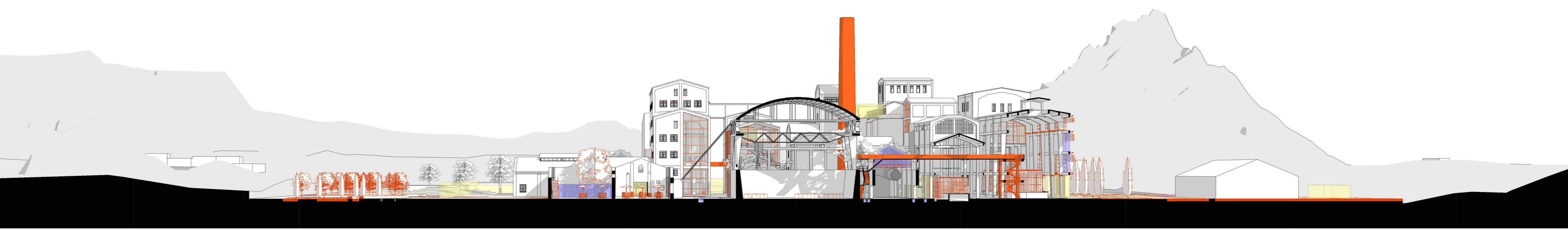
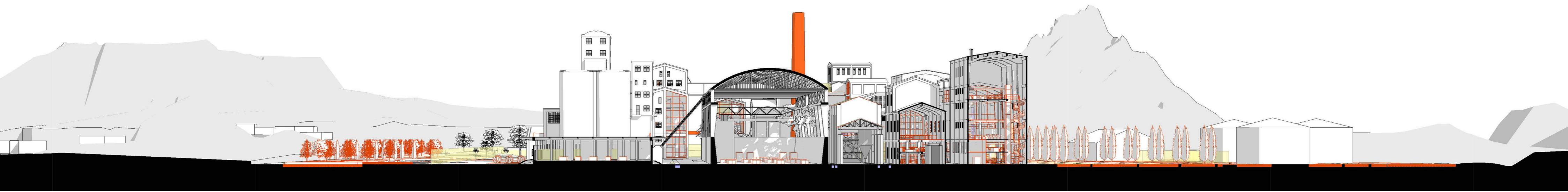
18 Planting area for citizens

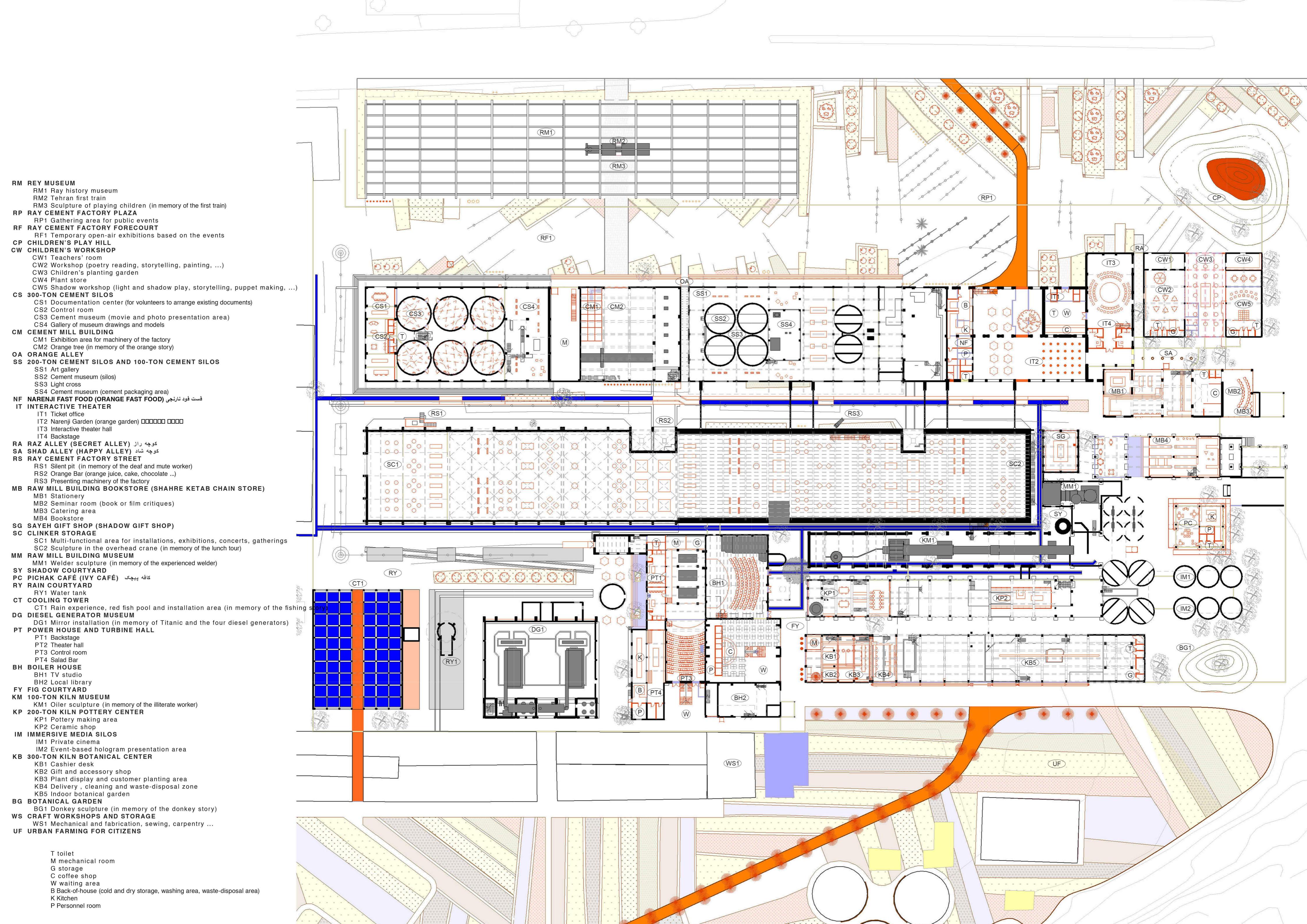


Immersive installation for the Orange Story (teamLab, Phenomena Abu Dhabi – Morphing Continuum, 2024. via Abu Dhabi Department of Culture and Tourism, accessed Nov 2025 )



Chamomile Lemon balm Linseed





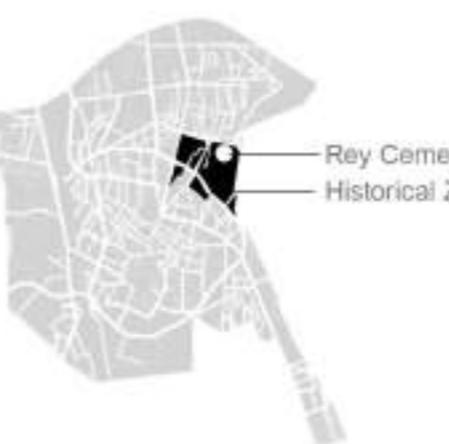
Cement Factory is in on South of Tehran



Tehran province

Ray district

Regarding Land use zoning of Tehran the factory is in the historical zone of Tehran



Rey Cement Factory  
Historical Zone

# APENDIX ADD REFERENCES

to the last sheet

## TEHRAN CITY DEVELOPMENT



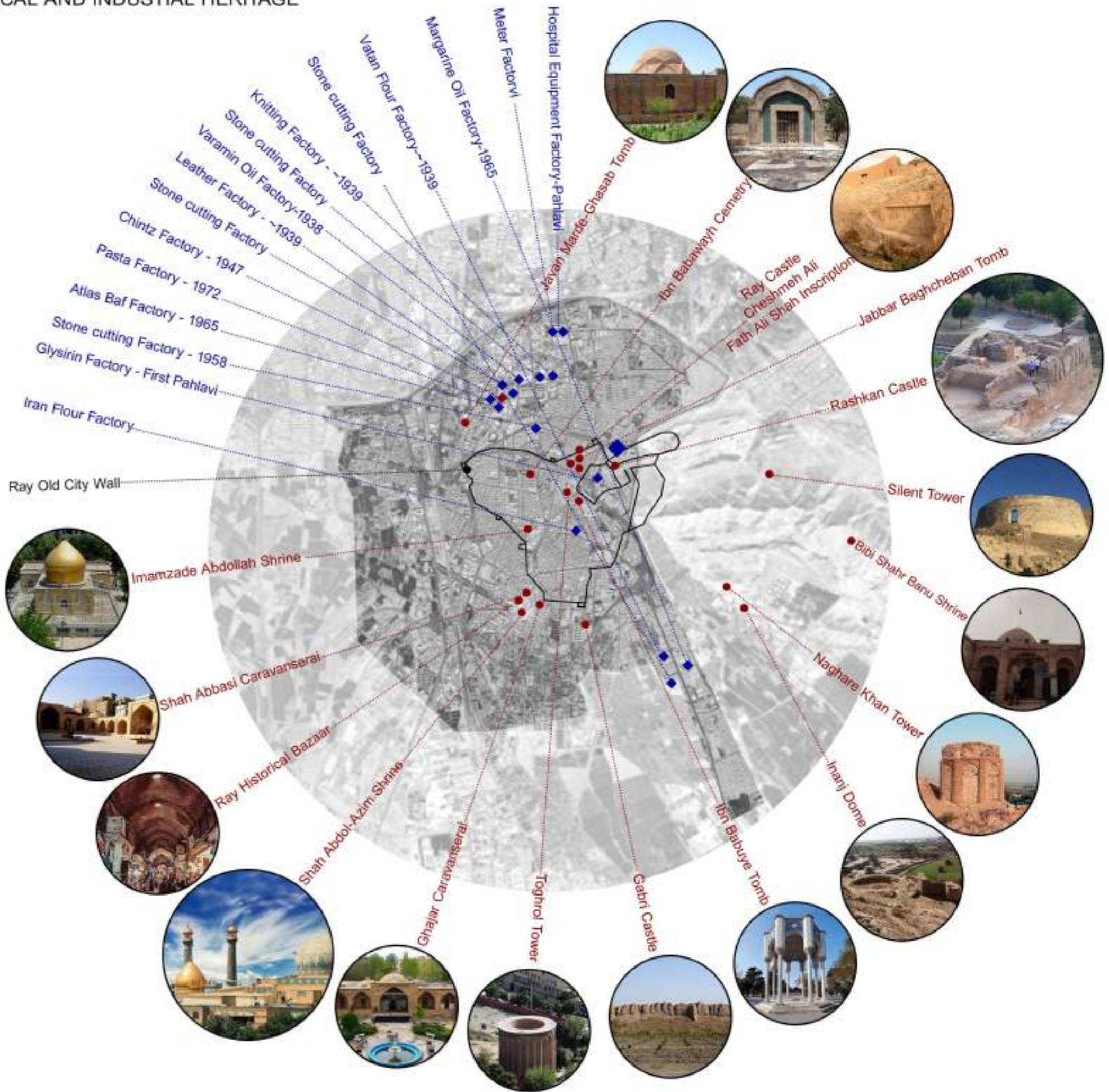
## TRANSPORTATION

15minutes distance by private car, cab, bus and metro have been shown on the map. Due to heavy traffic jams, moving from northern or western parts of Tehran to the factory would take more than 1 hour, therefore the new function of the factory should be something that serves more the people living close to the factory and people in the 220th region of Tehran.



remove this

## HISTORICAL AND INDUSTRIAL HERITAGE



Google maps

Tehran Industrial Heritage, Dr.Somayeh Fadaeinezhad Bahramjerdi, Dr. Sara Teymourtash, Tehran University, 2021  
Documents of International competition for the adaptive reuse and renovation ideas for the Rey Cement Factory

<https://farsnews.ir/tehran/news/>

<https://www.donyayemadan.com>



■ RAY CEMENT FACTORY  
 ● RELIGIOUS AREA  
 ● FOOD MARKET  
 ● RESTAURANT and COFFEE SHOP  
 ● EDUCATIONAL AREA  
 ● ADMINISTRATIVE CENTER  
 ● HEALTH CARE CENTER  
 ● CULTURAL CENTER

● SHOP  
 ● SUPERMARKET - BAKERY - BUTCHER - CANDY STORE - FRUIT AND VEGETABLE STORE  
 ● SCHOOL - KINDERGARTEN - HIGH SCHOOL - CONSERVATORY - TAILORING SCHOOL - DRIVING SCHOOL  
 ● BANK - INSURANCE - GOVERNMENTAL OFFICE - PRIVATE OFFICE - REAL ESTATE - CHARITY ORGANIZATION - TELECOMMUNICATION COMPANY  
 ● HOSPITAL - CLINIC - PHARMACY - HEALTH CARE EDUCATIONAL CENTER  
 ● CLOTHING - BUILDING MATERIALS SUPPLIER - AUTO GALLERY - MOTORCYCLE - ELECTRICAL - COMPUTER EQUIPMENT - GAME - PHOTO TAKING - TAILORING - STATIONERY - LEATHER GOODS  
 ● SPORT CENTER  
 ● BEAUTY SALON  
 ● MECHANIC AND AUTOPART STORE  
 ● VEHICLE REPAIR SHOP - OIL CHANGE SERVICE - MOTORCYCLE REPAIR SHOP - AUTO PARTS STORE - GLASS STORE - LOCK STORE - ALARM SYSTEM STORE  
 ● INDUSTRIAL AREA  
 ● GLYCERIN FACTORY - WAREHOUSE - AGRICULTURAL MACHINE REPAIR CENTER - MOBILE PHONE REPAIR



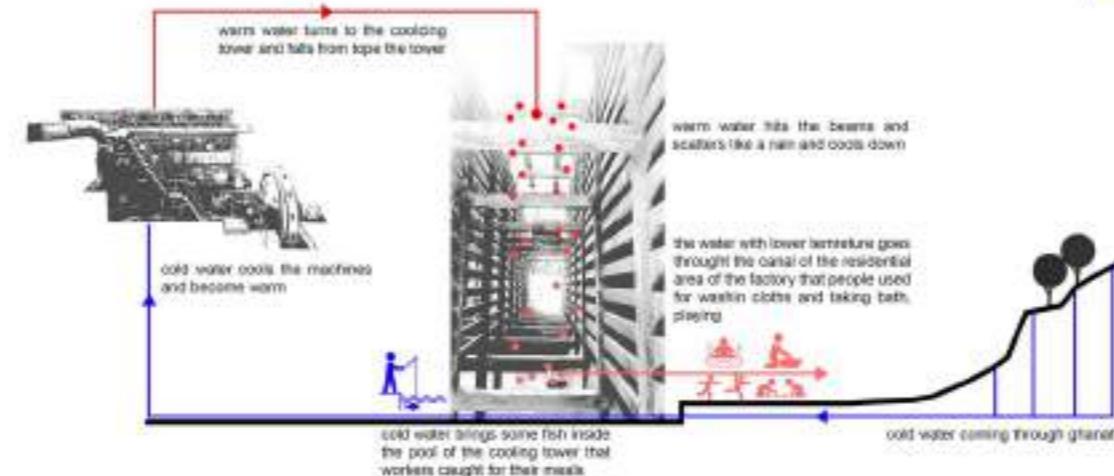
■ Factory area  
 monopoly of municipality for 30 years  
 ■ Property of Azad University of Tehran  
 Negotiated to be sold to municipality  
 ■ Property of citizens  
 The need for negotiation and making decision



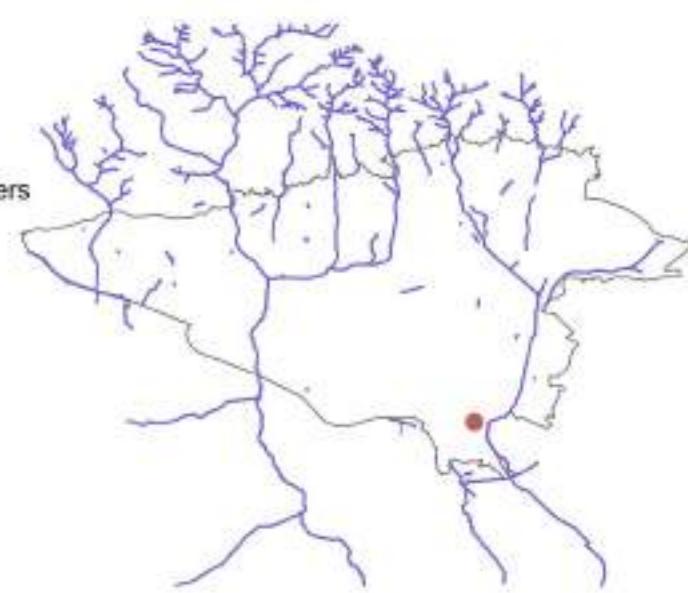
■ Factory area  
 ■ Highway  
 ■ Main Road  
 ■ Secondary Road  
 ■ Dirt Road  
 ▲ Main Entrance  
 ▲ Entrance  
 P Parking Area

charge this with its recent versio

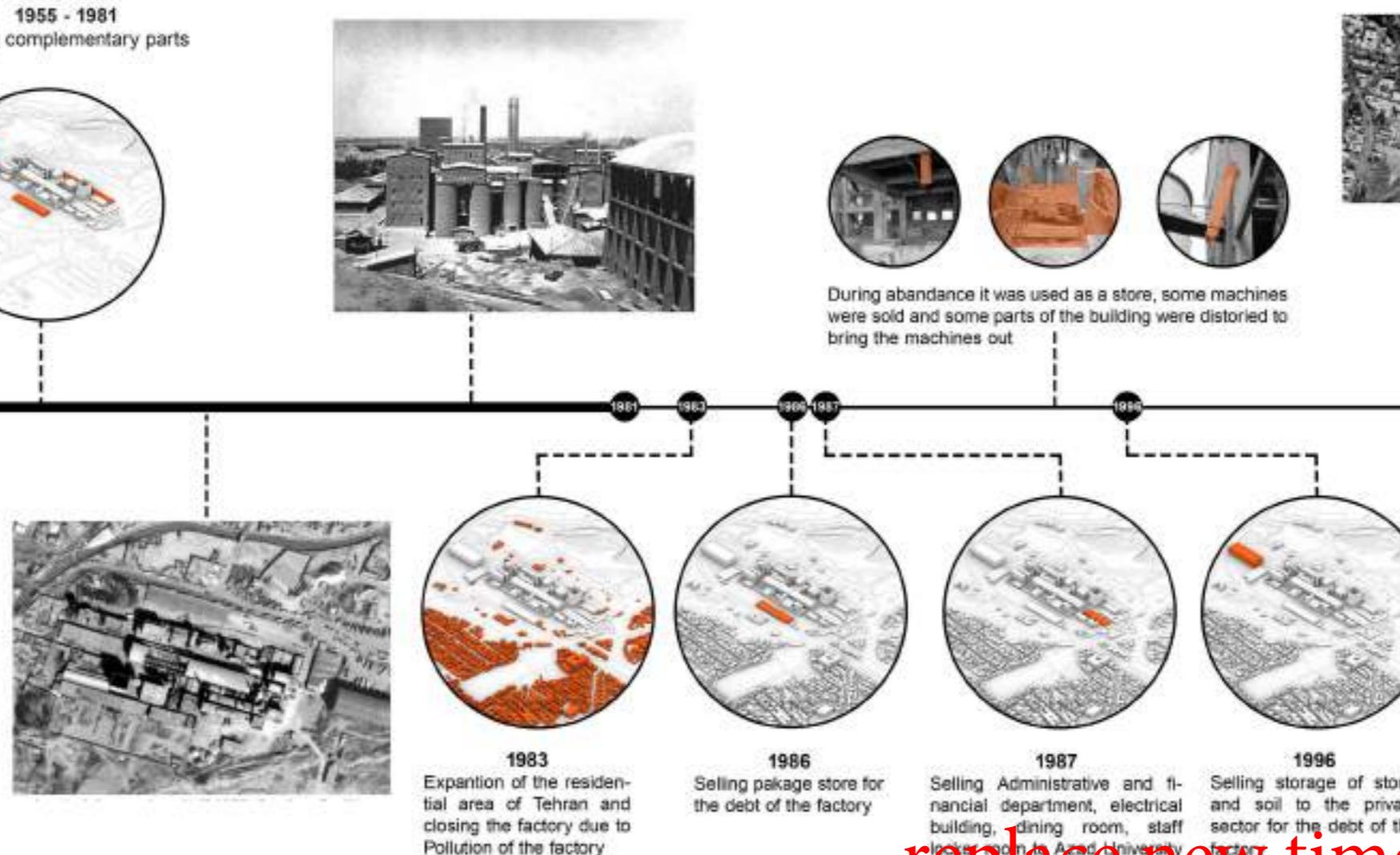
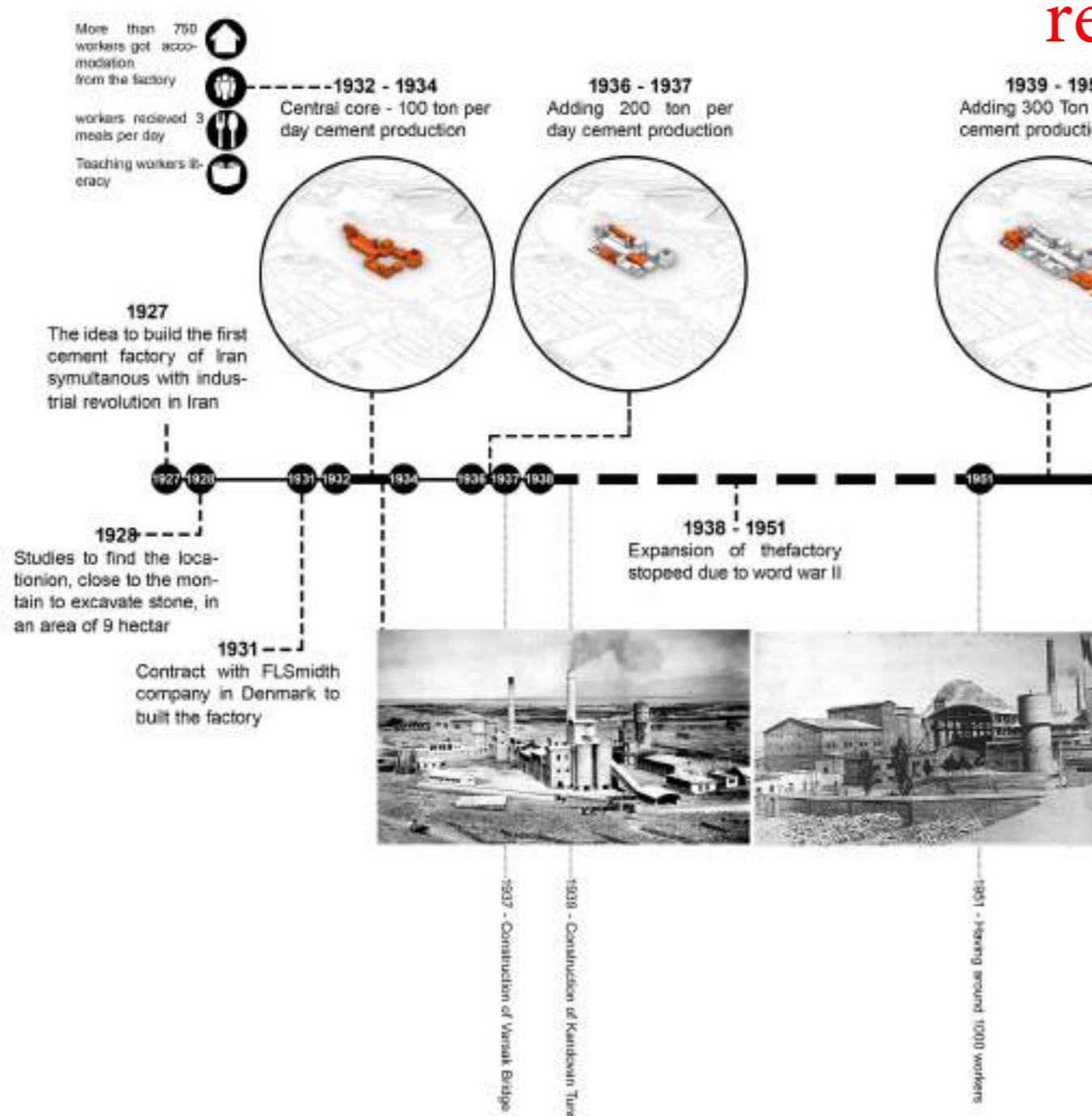
WATER SOURCE OF THE FACTORY  
 With a qanat water reached to the factory. There are underground canals to access water to the different parts of the factory to cool the machines. The cycle of the water has been shown in the diagram.



LEGEND  
 Tehran city  
 Cement Factory  
 Tehran province rivers



remove these two



replace new time line with the existing condition of the factory

The ax that Tehran was planned to develop along

The ax of Tehran's development

**TEHRAN'S DEVELOPMENT**  
Emphasizing on the north south ax of Tehran with the development of the factory,

#### TEHRAN'S MUSEUMS

**EXISTING MUSEUM**  
Keeping existing museum as it is. (Guard, 300ton cement silos, clinker storage, cooling tower and diesel generator)

#### TEHRAN'S CULTURAL CENTERS

**ADDITIONAL PARTS TO THE MUSEUM**  
Adding 100 and 200 ton silos, 100 ton kiln, water tanks.

#### TEHRAN'S CINEMAS AND THEATER

**MULTI FUNCTIONAL AREA**  
Tehran's third open air cinema of in the clinker storage, and exhibition, concert, seminars area

#### TEHRAN'S GALLERIES

#### TEHRAN'S EMBASSIES

**GALLERY AND WORSHOP**  
Being held by embassies and private sectors in the 100 and 200 ton cement silos.

**CULTURAL CENTER**  
Having classes, coffee shops, TV program salon, local library, to improve culture and educate workers.

**GARDEN CENTER**  
Teaching planting skills in 200 and 300 ton kiln's semi open areas with connection to the south, and workshop area

**PRIVATE CINEMA**  
In raw material silos, being rented by families and group of friends

**INSTALLATION AREA**  
Availability of the factory in all of the stages for installations.

#### TEHRAN'S PARKS AND AMUSEMENT PARKS

**UNITING AZAD UNIVERSITY**  
Having working areas and being rented by the schools that have insufficient spaces.

**UNITING THE NORTH STORAGE**  
Multifunctional area (Theater, seminar, cinema saloon)

**UNITING THE SOUTH STORAGE**  
Shopping areas for agricultural tools and working area for fruit and vegetable products

**UNITING EAST STORAGE**  
Arranging mechanics and creating lab

**TEHRAN MAPS' LEGEND**  
• Most popular places  
• Hidden gems  
• Less popular places

**OPEN TO THE CITY**  
Removing the barriers and opening the factory to the public from west

**ATTACHING TO THE CITY**  
Giving courts to people to plant

**ATTACHING TO THE MOUNTAINS**  
Planting for private purpose or to sell

**EAST OPEN AREA**