



NEW

HORI-

ZONS

PEM 211E

TES STUDIO 3

PROJECT 3

**Istanbul Technical University,
Faculty of Architecture,
Department of Landscape
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PEM 211E TES PROJECT III

design studio III
landscape

Dr. Meliz Akyol Alay
Res. Assist. Çisem Demirel

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01

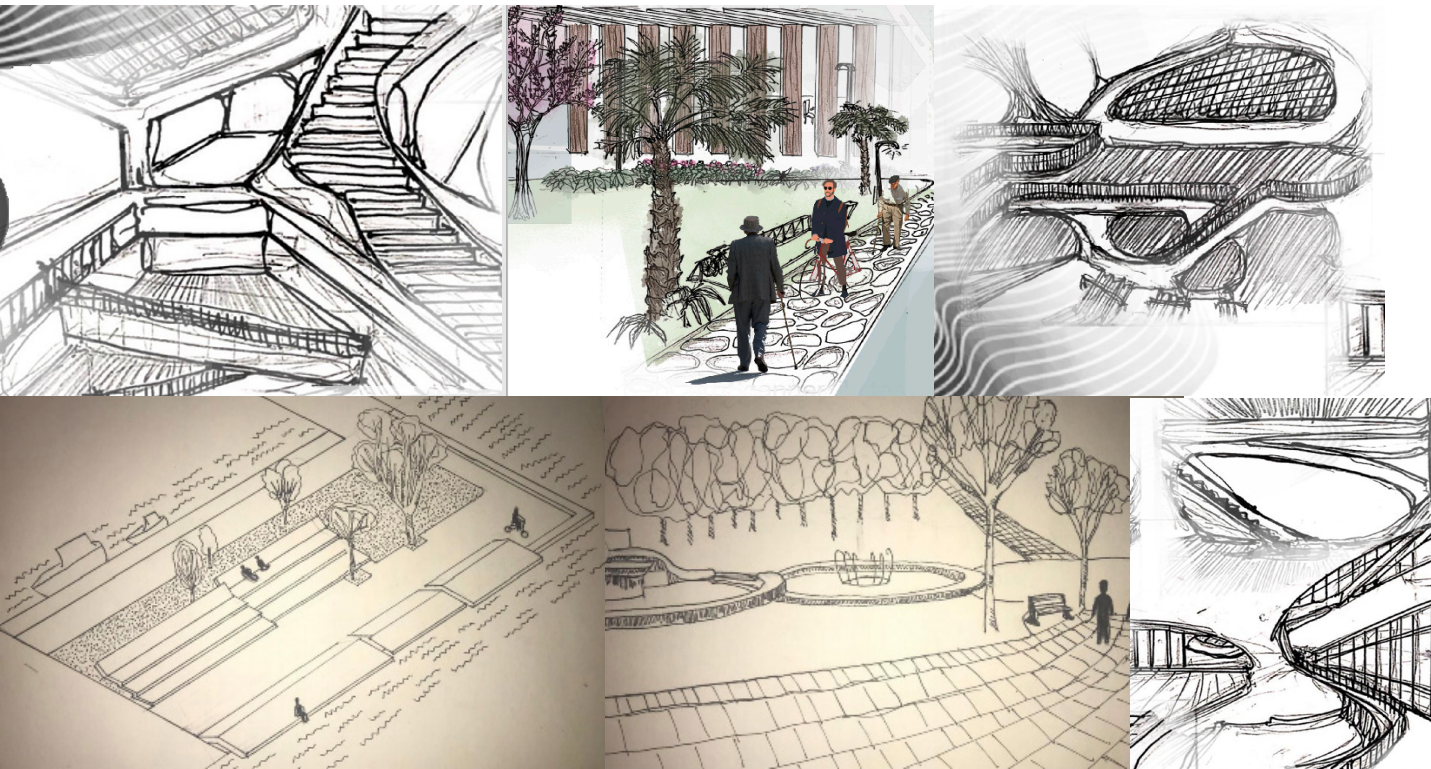
STUDIO

landscape fundamentals

The Project III studio introduces students to the fundamental elements of landscape design at the scale of public space. The studio investigates landscape design methods and approaches, based on morphological, experiential and visual, to develop spatial landscape setting with diverse programs and functions. The studio helps students to develop spatial literacy, ability to represent landscape and critical design thinking. The objective of this studio is to gain an understanding of the design process and hybrid solutions to common conceptual design problems. The 14 week studio program is accompanied by three common workshops and seminars that are organized within an interdisciplinary perspective by the active involvement of instructors and students from urban and regional planning and architecture departments to create an interactive studio environment.

NEW HORIZONS

The perception of landscape architecture changes the shape of our living environments. Cities or rural lands, they are all reflections of cultural and ecological changes through land, vegetation, water, natural and constructed environment. This studio discusses the fundamental design approaches while focusing on the observer and the outer user profile. The studio will be conducted under two main modules "Realizing the Future on Mars" and "Future of Landscape in Historical Reality".



02

NEW HORIZONS

MODULE I

REALIZING THE FUTURE ON MARS

MODULE II

HALIÇ-FUTURE OF LANDSCAPE IN HISTORICAL
REALITY

COMMON MODULE

CONTEMPORARY AGENDA

NEW

HORI-

ZONS

2019-2020 FALL

DR. MELİZ AKYOL ALAY

RES. ASSIST. ÇİSEM DEMİREL

MONDAY - THURSDAY 13:30-17:30
PEM TES211E PROJECT III

MODULE 1

REALIZING THE FUTURE ON MARS

MODULE 2 HALIÇ

FUTURE OF LANDSCAPE IN HISTORICAL REALITY

THE PERCEPTION OF LANDSCAPE ARCHITECTURE CHANGES THE SHAPE OF OUR LIVING ENVIRONMENTS. CITIES OR RURAL LANDS, THEY ARE ALL REFLECTIONS OF CULTURAL AND ECOLOGICAL CHANGES THROUGH LAND, VEGETATION, WATER, NATURAL AND CONSTRUCTED ENVIRONMENT. THIS STUDIO DISCUSSES THE FUNDAMENTAL DESIGN APPROACHES WHILE FOCUSING ON THE OBSERVER AND THE OUTER USER PROFILE.

THE STUDIO WILL BE CONDUCTED UNDER TWO MAIN MODULES "REALIZING THE FUTURE ON MARS" AND "FUTURE OF LANDSCAPE IN HISTORICAL REALITY".

MODULE I

REALIZING THE FUTURE ON MARS

In the context of the first module, students will be dealing with the complexities of the site to develop design ideas based on the local context of the planet Mars. Mars is the most earth-like alien planet in our solar system and facing space exploration in near future. This class will let students study and analyze the environment of this alien planet and will let them select the perfect landing spot for the first expedition team.

The class will give students conditions such as the payload of the rocket, the number of members in the expedition team, the period of the expedition and necessary supplies, etc. Students will be able to use Google Mars-like online service to investigate.

With this module work, students will be able to train how to study and analyze a large-scale site with the perspective of designers. Additionally, there will be no field trip.

Week	Date	Studio Work	
MODULE 1 – MARS			
<i>Realizing the Future on Mars</i>			
1	19 Oct.	Introduction to the Studio / Program and Context	Introduction and Discussions
	22 Oct.	Mars Project. Personal experiences / Site Dynamics / Recording textures / Sketches - Discussion on online lecture and communal production	Studio Work
2	26 Oct.	Reading the topographical landscape of MARS Exploring the landscape models and model materials	Studio Work
	29 Oct.	Understanding & Representing the Landscape Idea	Studio Work
3	2 Nov.	Development of Conceptual Framework / Sketches / Collages / Free scale mapping / Hybrid drafting techniques	Studio Work
	5 Nov.	Landscape Analysis 1/500 Analyzes and assessment examples with Sketch / Section and Plans	Submissions
4	9 Nov.	Landscape design plans 1/100 Sections, perspectives and 3d representations	Studio Work
	12 Nov.	Landscape analysis of MARS (A-1 poster format)/ Photo collage	Pin-up
	26 Nov.	Landscape design plans 1/100 Sections, perspectives and 3d representations	Studio works
7	30 Nov.	Landscape design plans 1/100- 1/50 Sections, perspectives and 3d representations	
	3 Dec.	Landscape design plans 1/100- 1/50 Sections, perspectives and 3d representations	Studio works
8	7 Dec.	Landscape design plans 1/50 Sections, perspectives and 3d representations	Studio works
	10 Dec.	JURY	Jury, Panel and submission

FELICIS

IREM KARABULUTLU

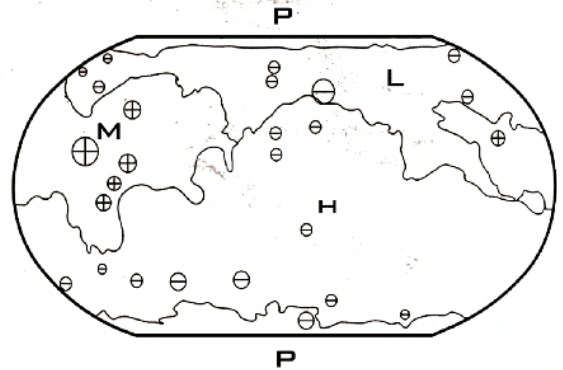
Jezero crater the landing site of the mars, as it may have looked billions of years go on mars, when it was a lake. An inlet and outlet are also visible on either side of the lake.

A key objective for mission on mars is astrobiology, including the search for signs of ancient microbial life. The rovers will characterize the planet's geology and past climate, pave the way for human exploration of the red planet, and be the first mission to collect and cache martian rock and regolith (broken rock and dust)

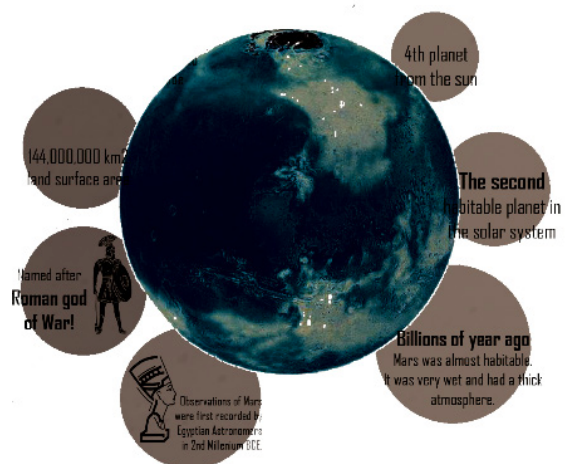
After the team that went to investigate, when the necessary conditions are met, new teams will continue to be sent for mars colonization.

First term: 6 years
Mission deadline: until death

SURFACE CONDITIONS



- ⊕ VOLCANIC AREA
- ⊖ CRATER AREA
- L LOWLAND REGIONS
- H HIGHLAND REGIONS
- P POLAR REGIONS
- M MIXED REGIONS

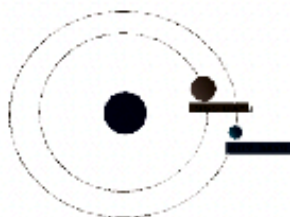


TIME+SPACE

DISTANCE FROM THE SUN : 227 900 000 KM
RADIUS: 3 390 KM
SURFACE AREA: 144 800 000 km²
DAY LENGTH: 1d 0h 45min
ORBITAL PERIOD: 687 days
SURFACE TEMPERATURE: -124 to 20 °C

- Mars will have rings in his future
- Mars have two small moons
- Mars has polar ice caps

TIME



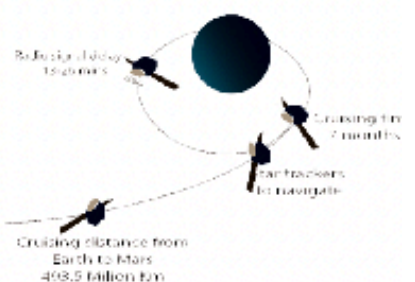
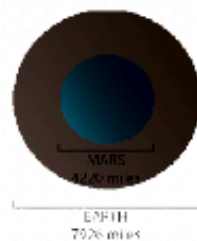
■ MARTIAN YEAR 669 SOLS
(687 EARTH DAYS)



■ EPOCH 24:39:35



SIZE



FEBRUARY 30, 2021

■ OCTOBER 10, 2018 - FELICIS BEGINS SEEKING VOLUNTEERS FOR THE TRIP MORE THAN 900,000 PEOPLE FROM MORE THAN 140 COUNTRIES APPLY. BY THE END OF THE YEAR, THE GROUP OF SIX PEOPLE WAS SELECTED AND LINKED TO TRAINING. THEY WERE TRAINED TO USE AND REPAIR EQUIPMENT, MEDICAL KNOWLEDGE AND DENTAL SKILLS, AND SPACE AGRICULTURE.

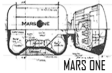
■ FELICIS PLANNED TO SEND EQUIPMENT TO MARS TO TEST WHETHER MANY OF THE SYSTEMS NECESSARY FOR HUMANS WOULD ACTUALLY WORK THERE. A COMMUNICATIONS SATELLITE LAUNCHED INTO ORBIT AROUND MARS TO ESTABLISH A RELAY LINK BETWEEN EARTH AND THE MARTIAN SURFACE.

■ A ROVER AND TRAILER WENT FIRST, LIKE A ROBOTIC SCOUT TEAM, TO FIND AND PREPARE A PLACE FOR THE SETTLEMENT. THE IDEAL SPOT IS FLAT AND SUNNY, WITH SOIL THAT CONTAINS A LOT OF WATER. A SECOND COMMUNICATIONS SATELLITE LAUNCHED INTO ORBIT AROUND THE SUN SO THAT SIGNALS CAN TRAVEL BETWEEN MARS AND EARTH EVEN WHEN THE SUN IS BETWEEN THEM.

■ A FULL-SCALE CARGO MISSION LIFTED OFF, WITH ANOTHER ROVER. TWO "LIVING UNITS," TWO LIFE-SUPPORT SYSTEMS AND A SUPPLY UNIT. THEY USED THE FIRST ROVER'S SIGNAL AS A BEACON TO FIND THE RIGHT LANDING SPOT.

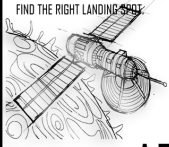


POSITIONS
COMMAND PILOT
PILOT
BIOLOGIST - PLANT SCIENTIST
DOCTOR
AIRCRAFT SPACE ENGINEER
MECHANICAL ENGINEER



■ MARS ONE. FEED SOIL INTO THE SYSTEM THAT WILL EXTRACT AND STORE WATER. ANOTHER SYSTEM MIXED NITROGEN AND ARGON FROM THE MARTIAN ATMOSPHERE WITH OXYGEN FROM THE WATER TO MAKE BREATHABLE AIR.

■ PEOPLE DIDN'T START THEIR JOURNEY UNTIL THE LIVING QUARTERS CONTAIN 3,000 LITERS OF WATER AND 120 KG OF OXYGEN AND HAVE A LIVABLE BAROMETRIC PRESSURE. MARTIAN AIR DOESN'T CONTAIN ENOUGH OXYGEN FOR HUMANS, AND THE AIR PRESSURE IS TOO THIN.



APRIL 20, 2024

■ AFTER A 7-MONTH JOURNEY, THE FIRST TEAM ARRIVES TO MARS. SOLAR PANELS ARE PLACED AND ENERGY BEGINS. THE CORRIDORS BETWEEN THE LANDING TEAMS AND BEGINS AGRICULTURAL WORKS ASAP.

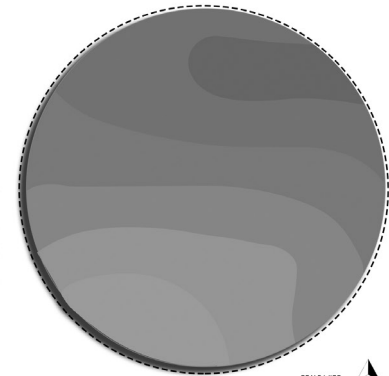
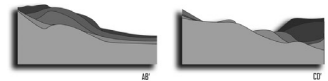
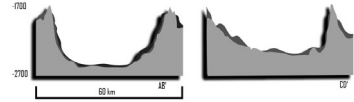
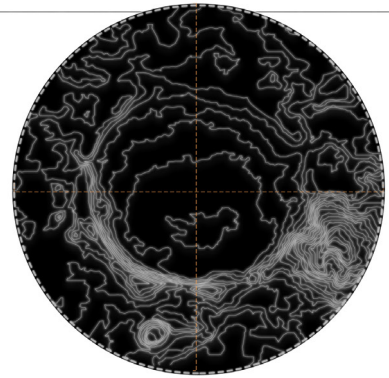


■ THE MARTIANS WILL HAVE TO BE THEIR OWN REPAIRMAN, DOCTORS, DENTISTS AND FARMERS. THEY'LL NEED SPACESUITS TO WALK OUTSIDE.

SPECIAL PROTECTIVE SUITES
PRESSURE
TEMPERATURE
BREATHING
RADIATION
DUST SENSITIVITY

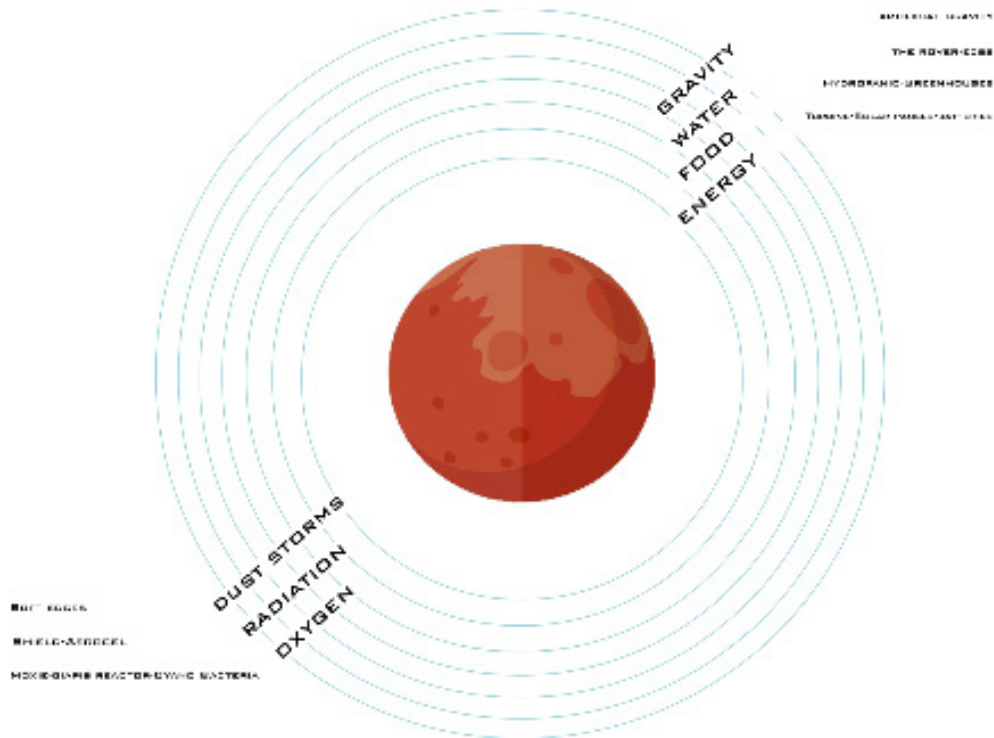


■ AFTER THE FIRST TEAM REACHES THE LEVEL TO MEET THEIR LIFE NEEDS, THE SECOND TEAM WILL START SETTLEMENT WORKS. WHEN SUCCESSFUL FOOD PRODUCTION FROM MARS SOIL AND EXTRACT ENOUGH WATER FROM THE CRATER, THE SECOND TEAM WILL BE SENT TO MARS AFTER A 6-YEAR PROCESS.



SCALE 1/100





FOOD

HYDROPONIC AGRICULTURE

is a method used for growing plants in a soilless environment. Hydroponic cultivation is easy, besides professional greenhouses, it is an agricultural method that you can do on your balcony and terrace, as well as it is a good method for growing healthy plants.

Some of the vegetables commonly grown with this system are: tomatoes, sweet peppers, cucumbers, zucchini, sultan peas, beans, spinach, lettuce, chard, hot pepper, basil and broccoli. Apart from these, you can grow medicinal and aromatic plants, flower and houseplants.

Using synthetic biology to create Martian-adapted crops

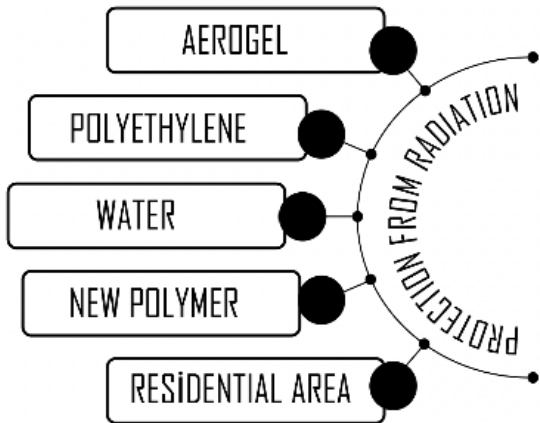
MICROBIAL CROPS:

The future of life off (and on) Earth. The ideal microorganism candidates are yeast and algae. Both can readily withstand harsh conditions on Earth and are relatively easy to engineer. They are nutritious, reproduce rapidly, and take up far less space than traditional crops.

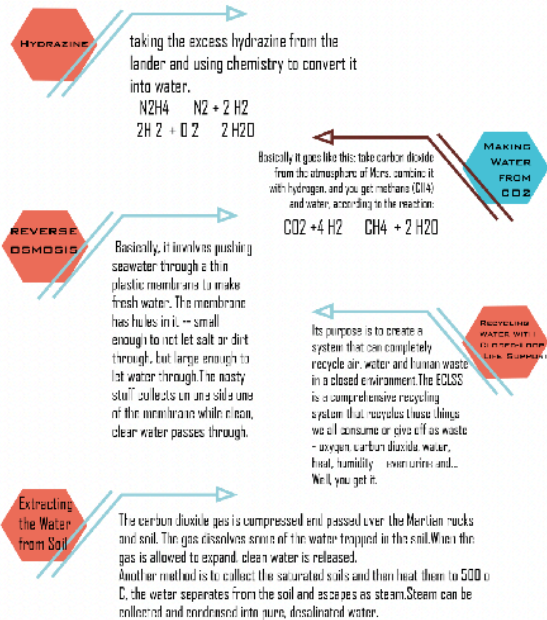
PSEUDOMONAS PUTIDA

is a Gram-negative, saprotrophic soil bacterium. It has a diversified metabolism which allows it to degrade organic compounds and it also has a great capacity to tolerate heavy metals and metalloids.

RADIATION



WATER



ENERGY

NICKEL-HYDROGEN BATTERIES

During each two-hour orbit around Mars the spacecraft experiences a "day" and a "night."

BIOGAS

Move over solar and wind power, there's another renewable energy source: stool.

SOLAR PANELS

At Mars, the two panels together produce 1,000 watts of power.

MARS TURBINE

These extremely mobile energy generators, christened with the acronym MARS, will float high in the air at altitudes ranging from 600 to 1,000 feet

Architectural Design Principles based on well being

Personal Spaces

Every person requires private spaces for sleeping, working and spending their time, whenever they want to do these things, should be encouraged and facilitated.



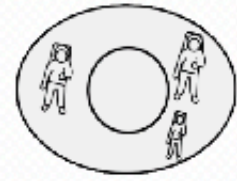
Common Spaces

Common spaces should allow for meeting, group activities, recreation, etc.



Semi-Private Spaces

Semi-private spaces for small groups to relax and and eat or otherwise assemble.



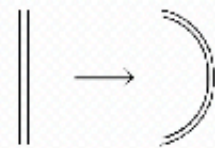
Complex Spaces

Psychologically, because of the fact that a complex space, where more than one space exists.



Derived Walls

Derived walls increase the perception of a space as it is deeper than it actually is, and the perceived boundaries of the walls, planes and vertical walls, decrease.



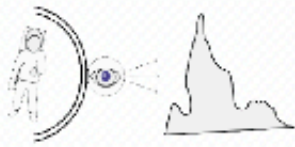
Multifunctional Spaces

Spaces should not be predefined, they should be flexible and could be reprogrammed for multiple uses.



Interaction With Exterior

Creating connection with outside decreases the perception of being confined.



Biophilic Design

Psychologically, making nature, biophilic, decreases stress, stress, and can increase productivity.



Stimulation of Senses Through Design

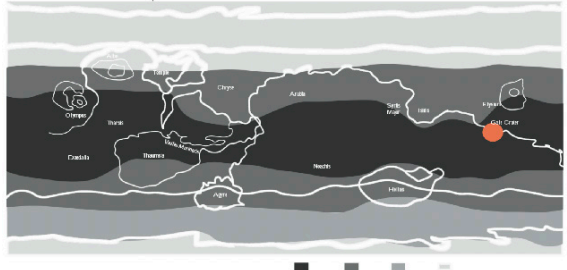
To prevent sensory deprivation, it is essential to design a space, design things are like full.



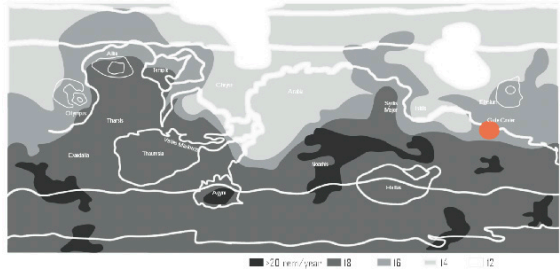
HABITAGALE ALMIRA ENDICAN

Gale Crater is potentially great place to be explored and inhabited by the Martians. It has mountained layered of materials could be observed which is called Mount Sharp, about 5 km at height. Layers of the Mountain could give us a hint about the history of the Red Planet. Based on the height, there are different materials exposed. The bottom layers consist of clay minerals. Above them, there are sulfur and oxygen bearing minerals exist (NASA, n.d). Gale Crater's diameter is about 150 km. It is predicted that, crater is about 3.5 million to 3.8 million years old. This also makes the crater interesting place to be explored (Mars Odyssey Themis, n.d). According to scientists, potential of the water's existence makes the area very favorable area. This also creates the possibility of microbial life (Mars Odyssey Themis, n.d). On September 26, 2013, NASA scientists reported that Curiosity detected "abundant, easily accessible" water (1.5 to 3 weight percent) in soil samples at the Rocknest region of Aeolis Palus in Gale. This is a favorable situation for future Martians. Since Gale Crater is located in Equatorial climate zone, this makes the crater human friendly.

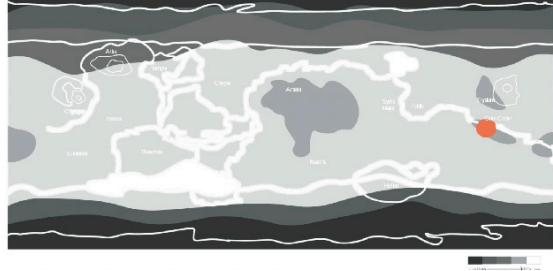
How is the temperature on Mars ?



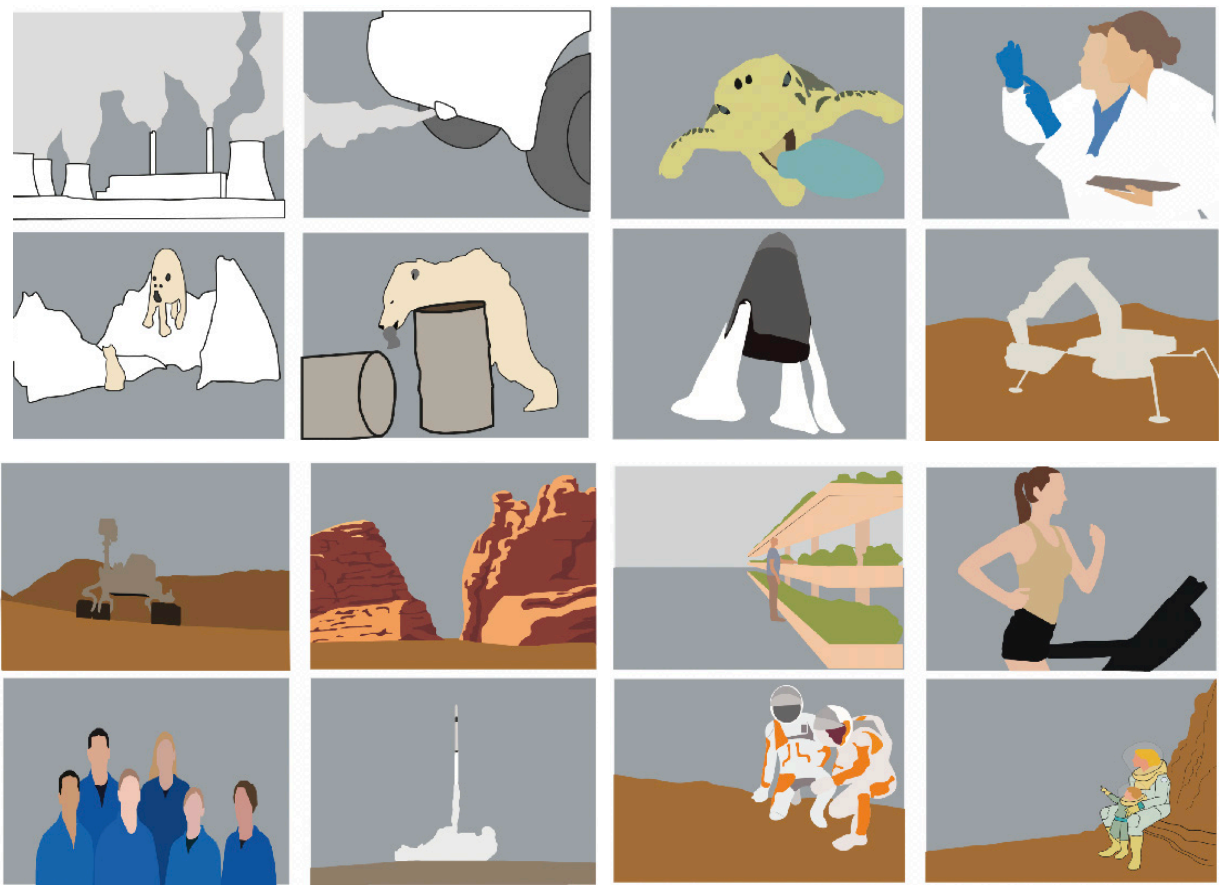
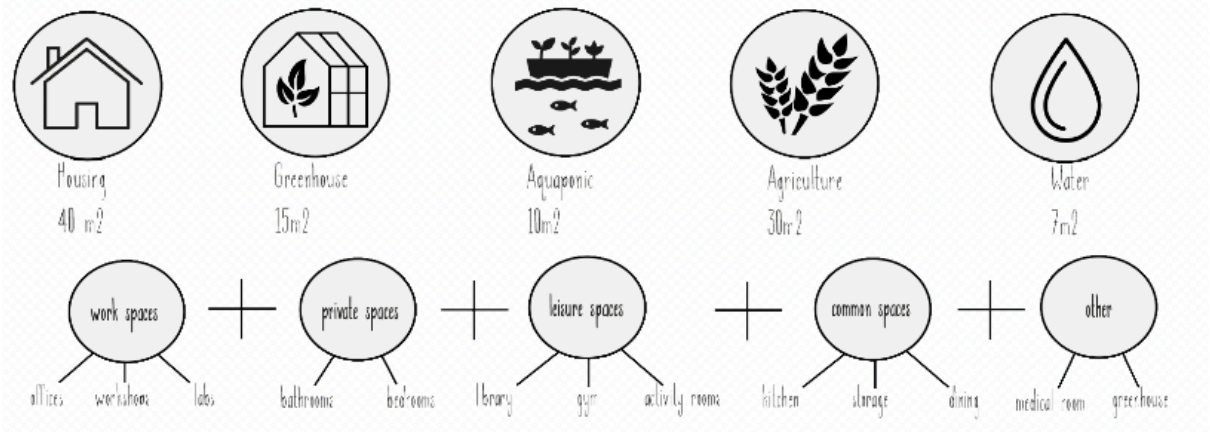
How is the radiation distribution on Mars ?



How is the water distribution on Mars ?



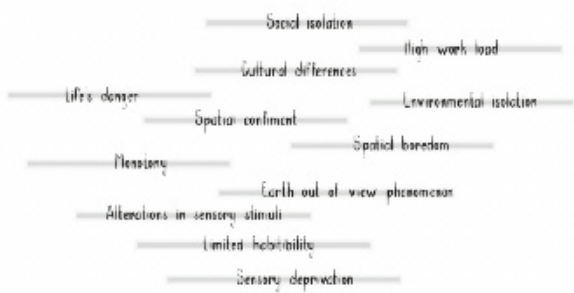
Resources required in 1 year for 1 person



Psychological Stressors



Psychological Effects





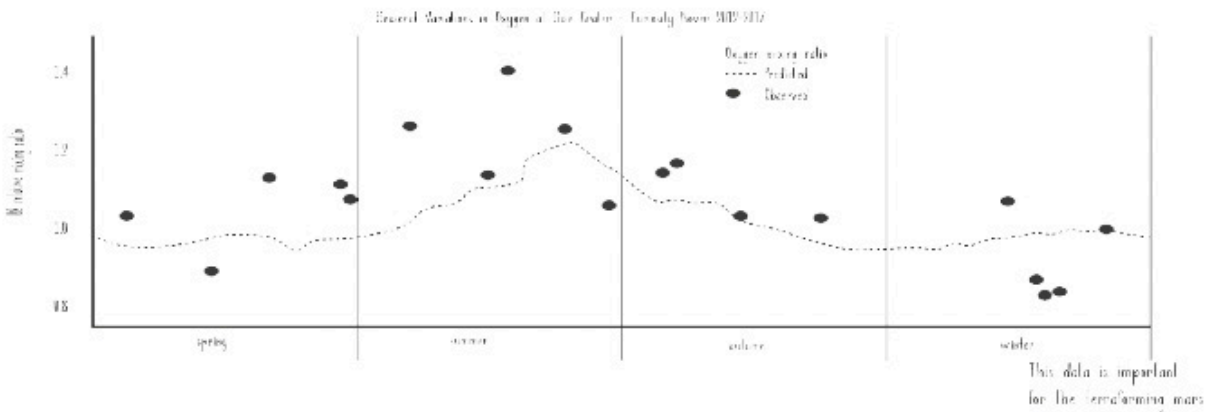
Crater wall and crater floor



Crater rim and crater floor



Mountains Compared
Mount Sharp is like India
as seen in the Himalayas
United States

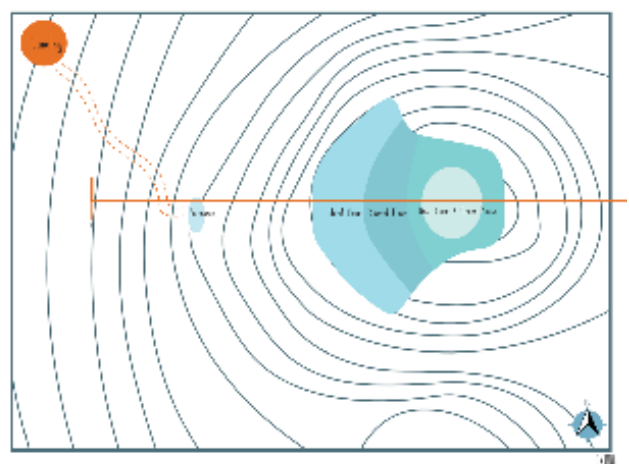
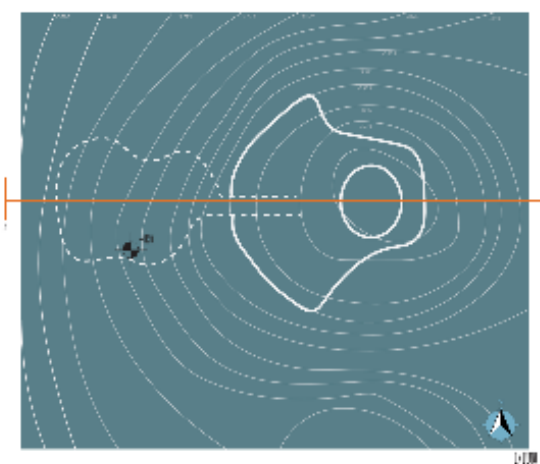


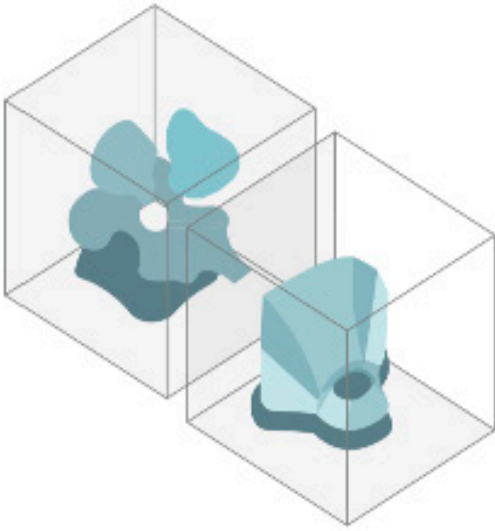
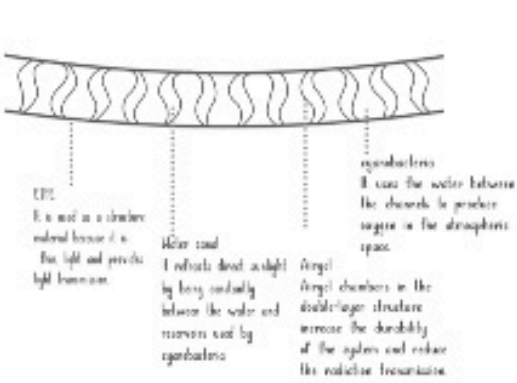
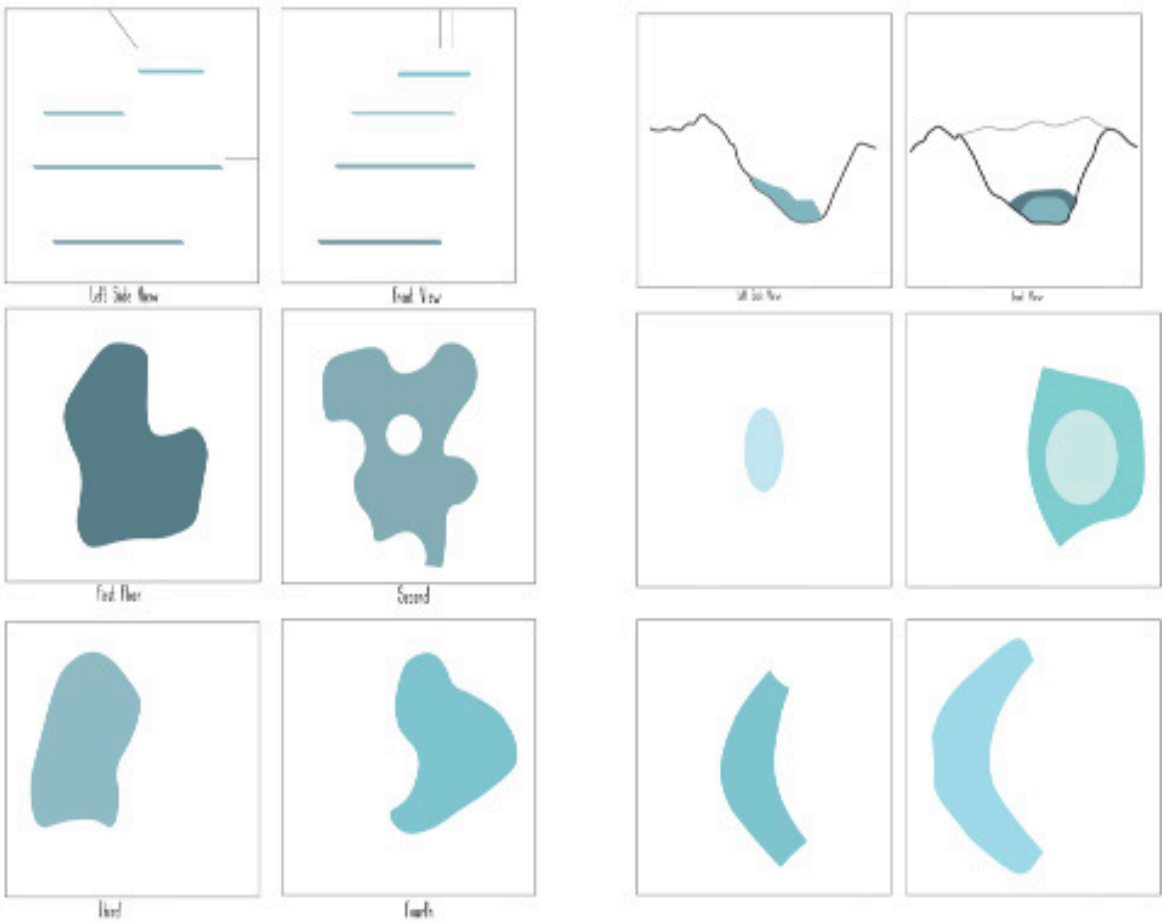
Why Gale Crater?

In order to create a sustainable life on Mars, factors such as radiation, water and air temperature must be taken into account.

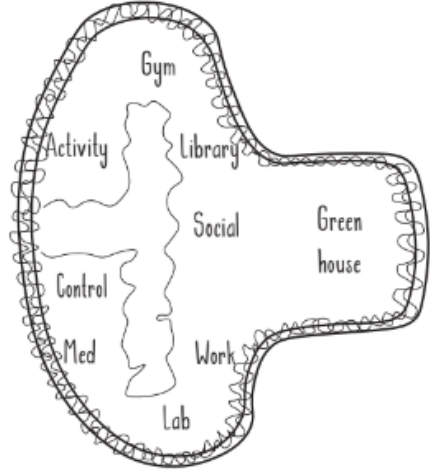
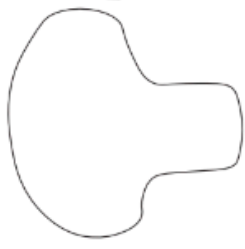
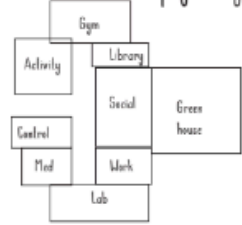
Gale Crater is an area that has potential in terms of these factors and is one of the focal points of NASA. The fact that it is located in the Northern Hemisphere, its proximity to other potentially habitable areas, and the presence of a lake in the past are also important factors affecting the selection.

Since the basic and most important priority of this design is safety, the desire to avoid unknown factors and dangers, thanks to many researches and data found on Gale Crater, also influenced the decision of Gale Crater.





Form work for psychology



A NEW HOME

ÖZGE NAZ GÜLER

The pit for landing and settlement site is it takes place in the northwest of The Gale Crater.To land depth has important advantages for thespaceship's more atmosphere above. The landing site must be safe and lat surface to land, low altitudes are better since we will have more tmosphere above us. Near Equator can be preferred for solar power to get more sunlight and moderate temprature.

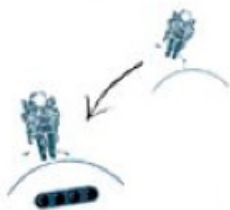
DUST STORMS



OXYGEN



GRAVITY



RADIATION



ENERGY



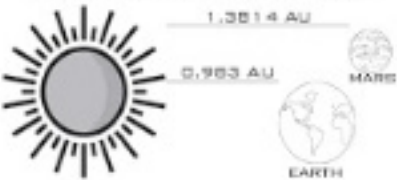
FOOD



SIZE



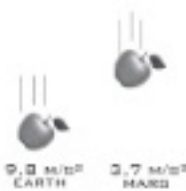
DISTANCE TO SUN



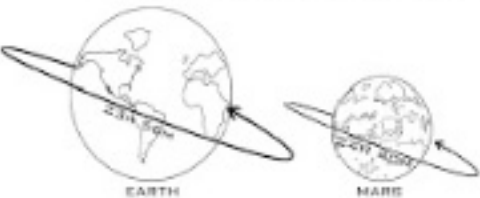
ORBITAL PERIOD



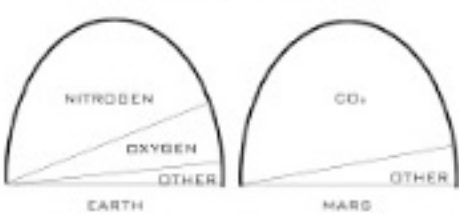
GRAVITY



SIDEREAL ROTATION



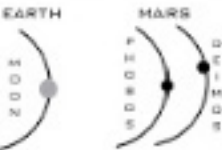
ATMOSPHERE



CLIMATE

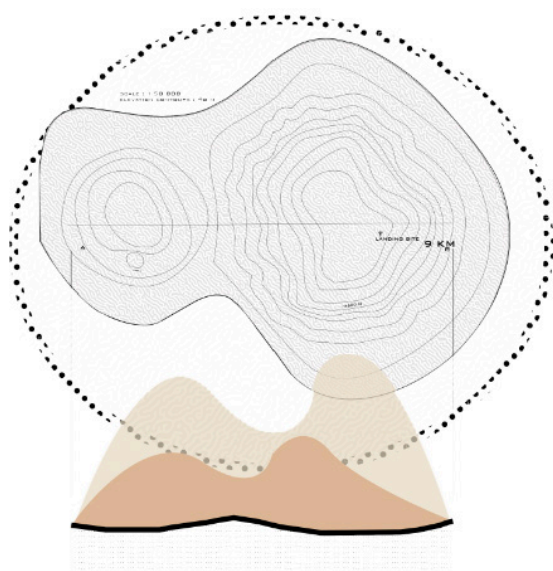
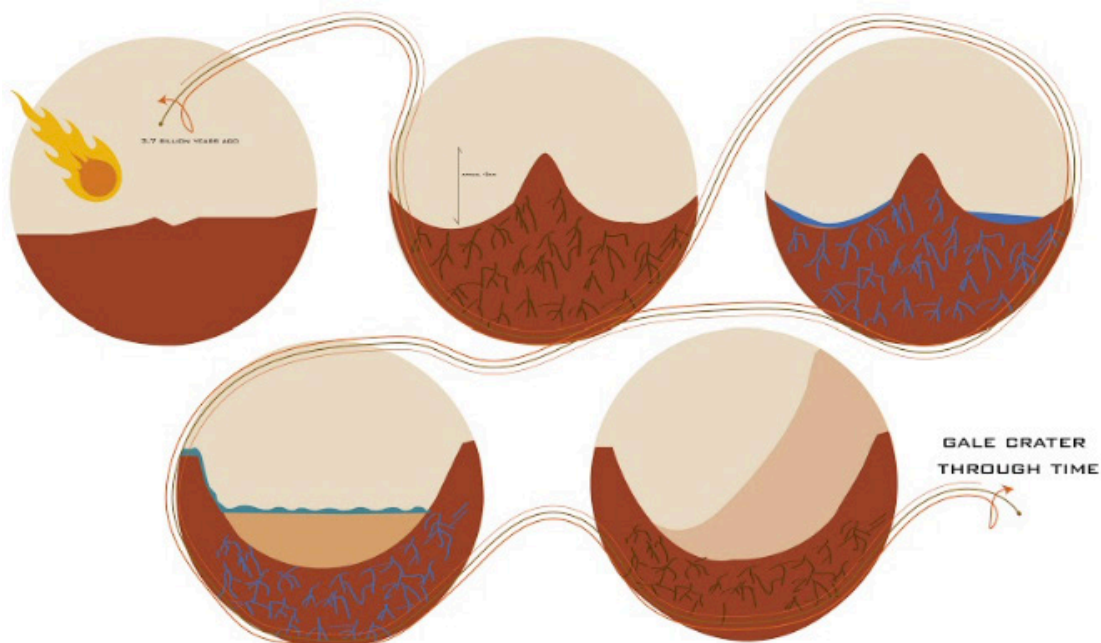


SATELLITES



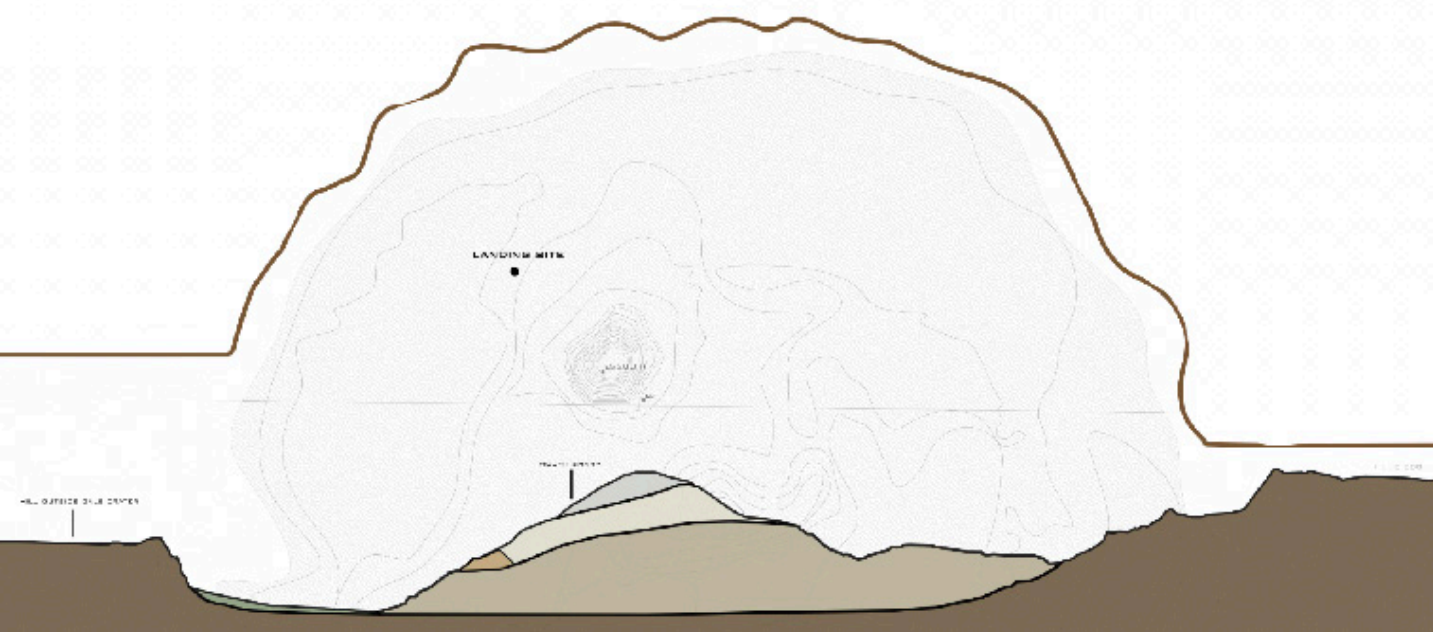
GEOGRAPHY





COLONIZING MARS

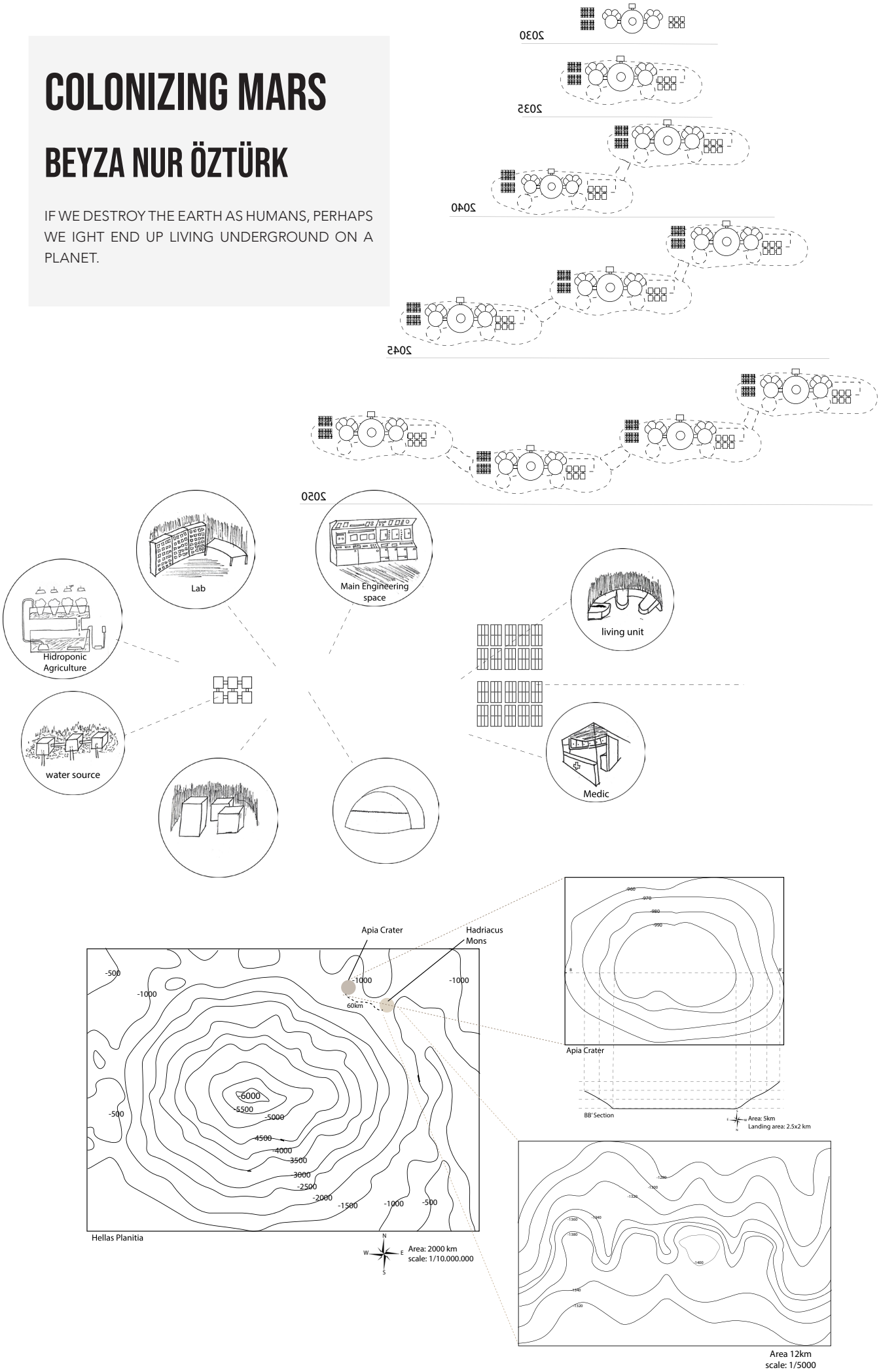
FIRST MISSION TO EXTRACT OR FIND WATER AND FOSSILS BENEATH THE GROUND. EXTRACTED WATER WILL BE CONVERTED TO OXYGEN AND HYDROGEN FOR A SUSTAINABLE LIFE. FOR PROTECTING ABOVE GROUND HABITATS FROM RADIATION, MARTIAN SOIL WILL BE CONVERTED TO THE IN FLATABLE MODULES ENCASED IN CERAMICS WITH 3D PRINTING TECHNIQUE. GREENHOUSE AREA WILL HAVE ARTIFICIAL LIGHTNING FOR GROWING PLANTS. LABS WILL WORK ON MARTIAN SOIL TO MAKE IT USEFUL FOR GROWING PLANTS. IN THE BEGINNING NUTRIENTS FOR THE PLANTS COULD COME FROM RECYCLING HUMAN WASTE. RYE, CRESS AND ALGAE WILL BE FIRST TO PLANT IN LABS.

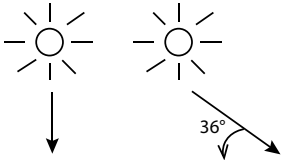
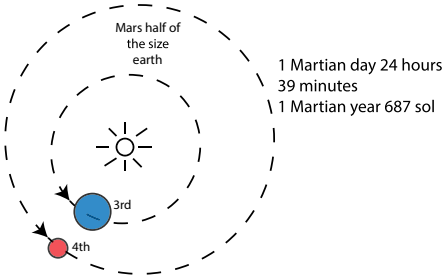
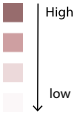
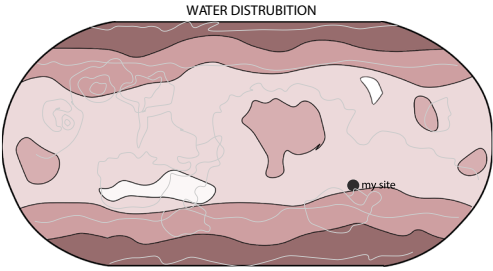


COLONIZING MARS

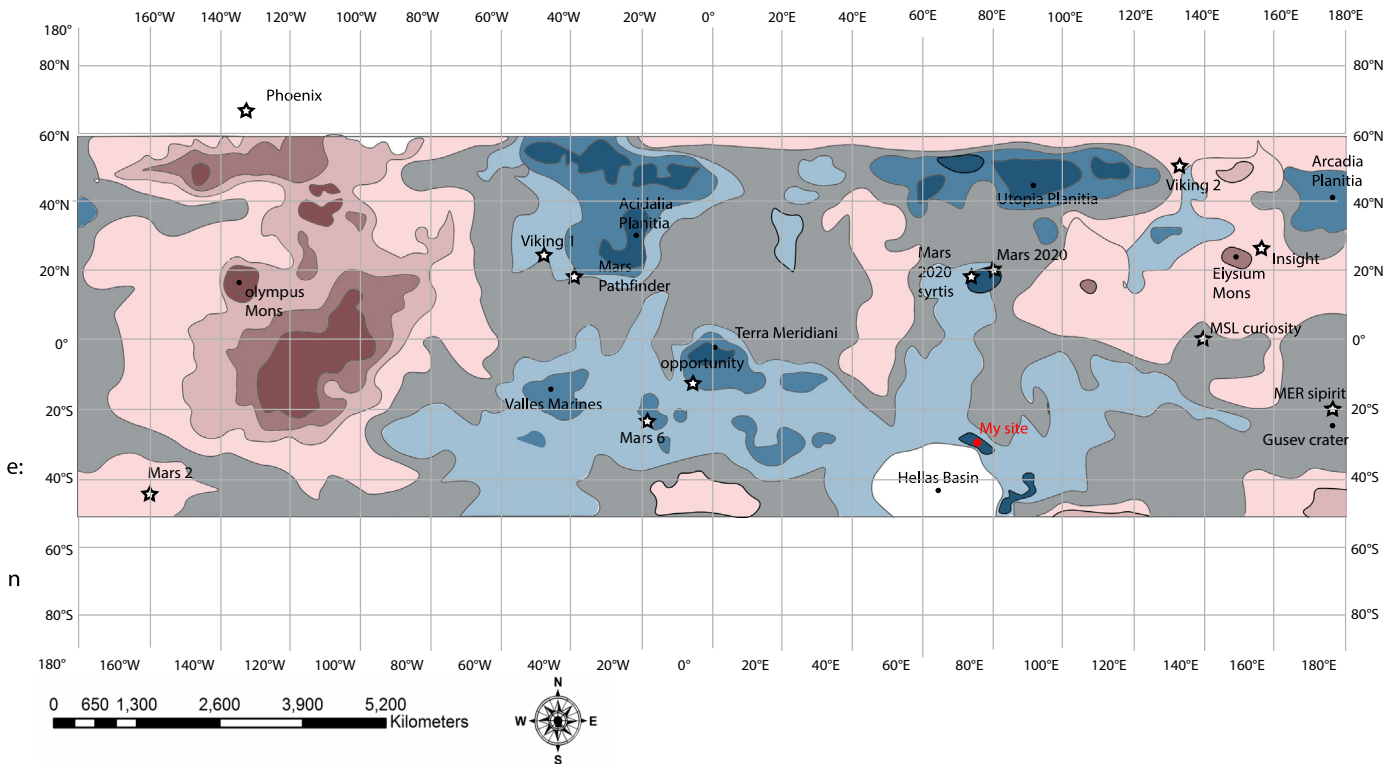
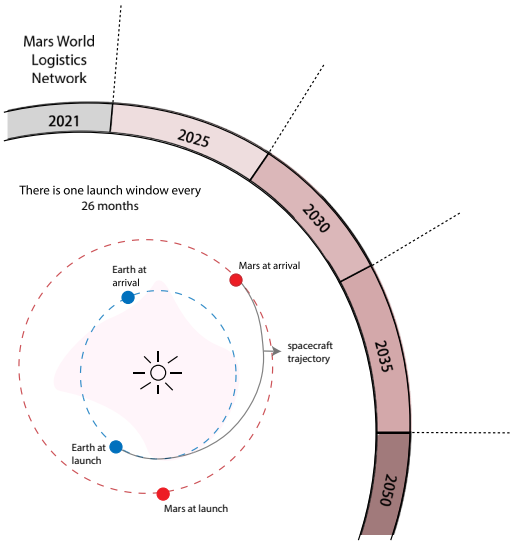
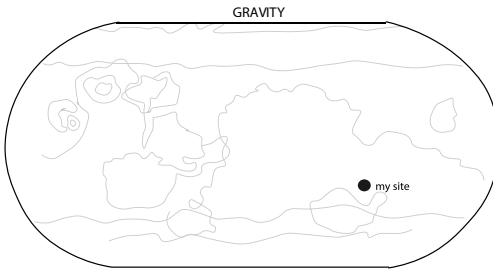
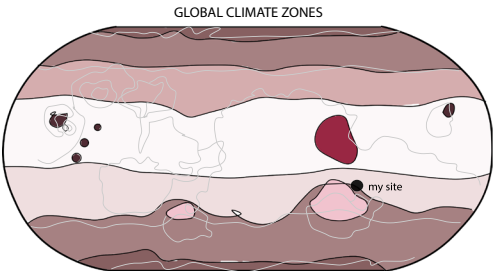
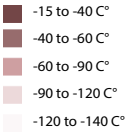
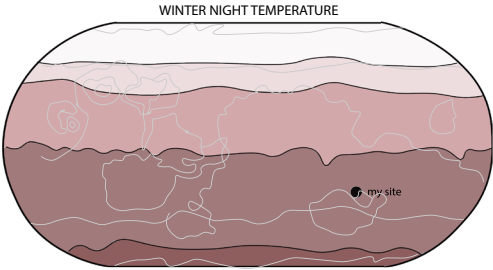
BEYZA NUR ÖZTÜRK

IF WE DESTROY THE EARTH AS HUMANS, PERHAPS WE IGT END UP LIVING UNDERGROUND ON A PLANET.



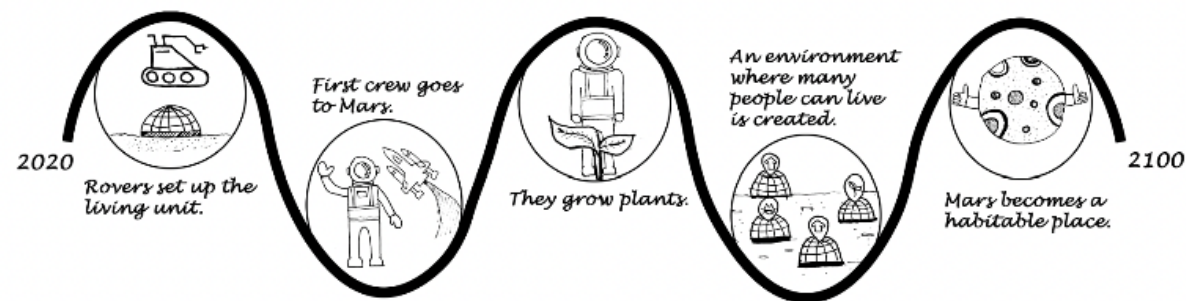


The Maximum Intensity of = The Intensity of the Sun on the noonday sun on mars Earth at 36°

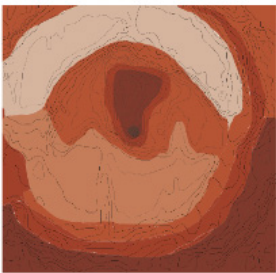
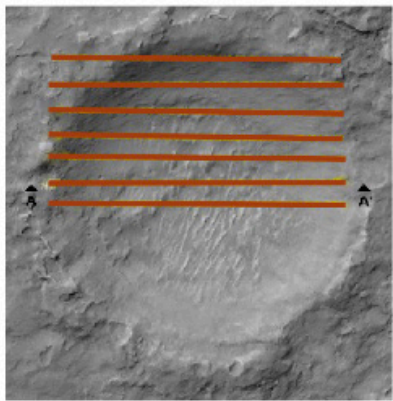


MARS

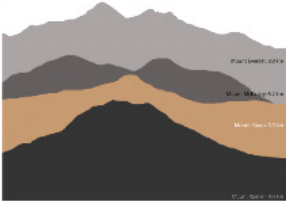
AYŞENUR ERASLAN



Project Area

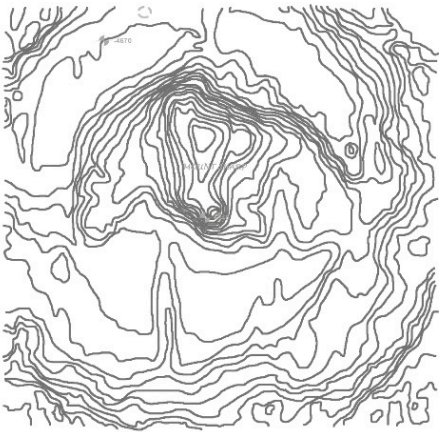


Gale Crater equals approximately 21 football fields.

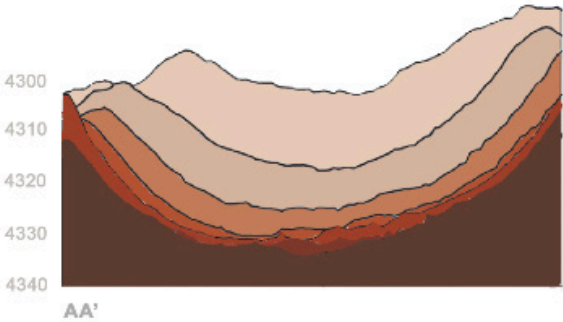


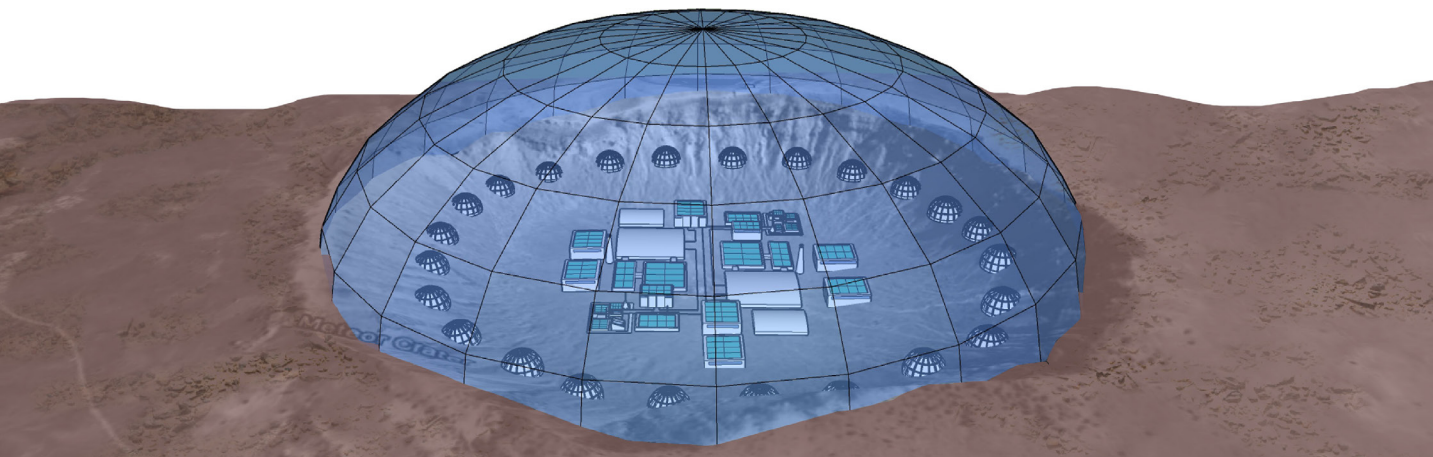
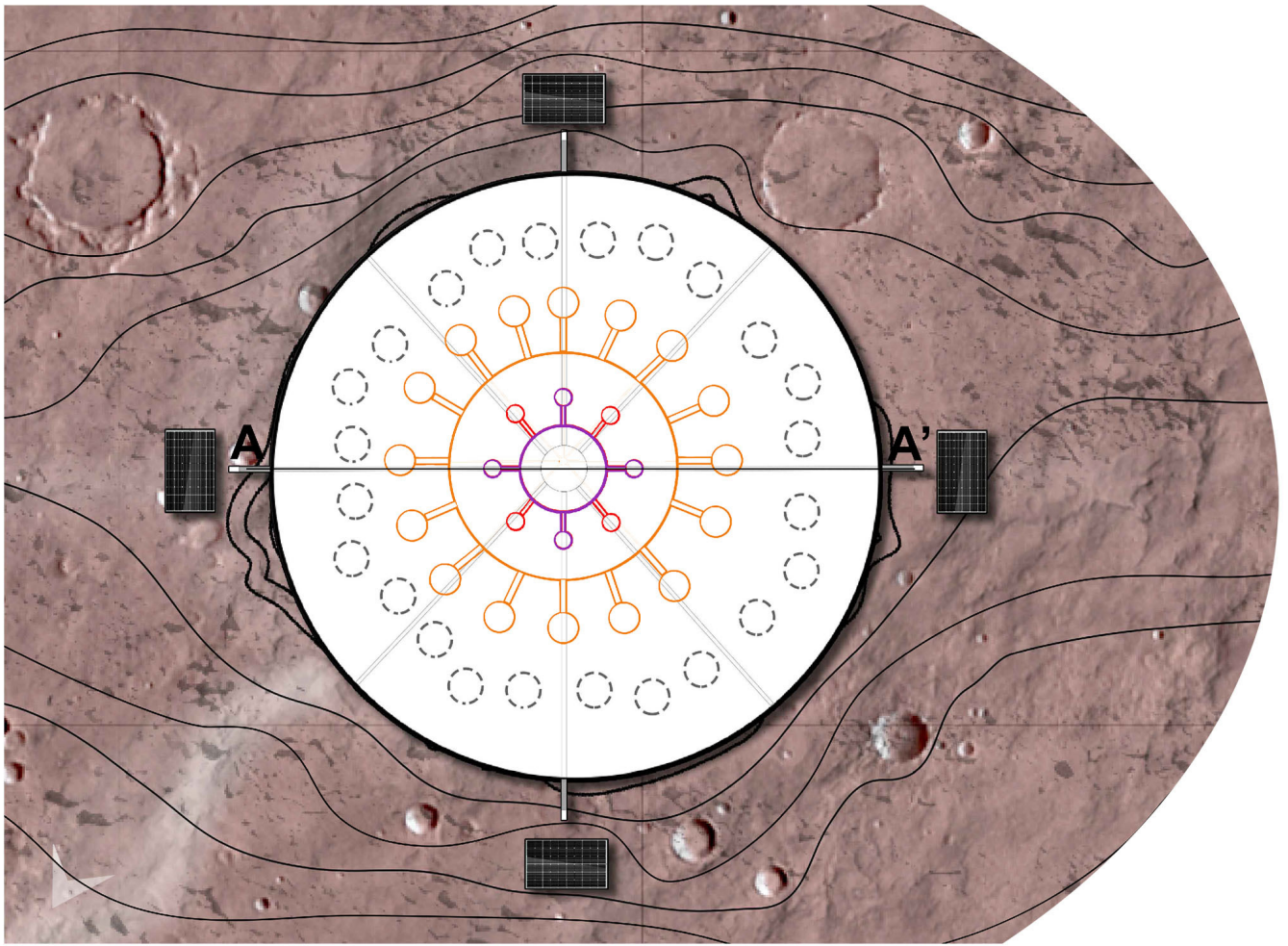
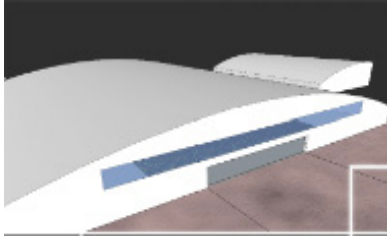
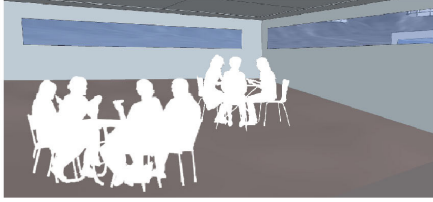
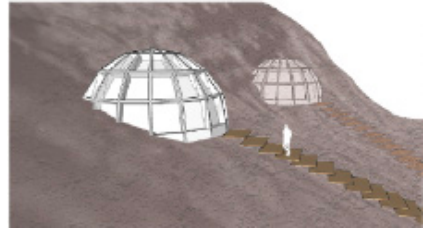
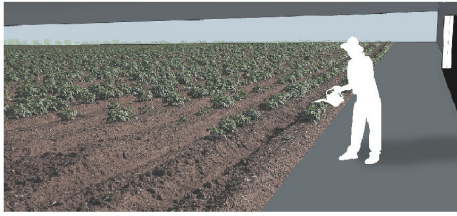
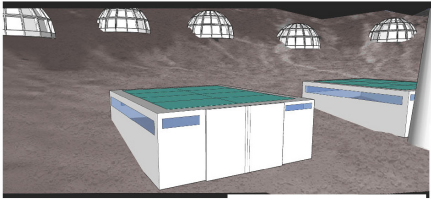
-4700 +850

Gale Crater



Project area





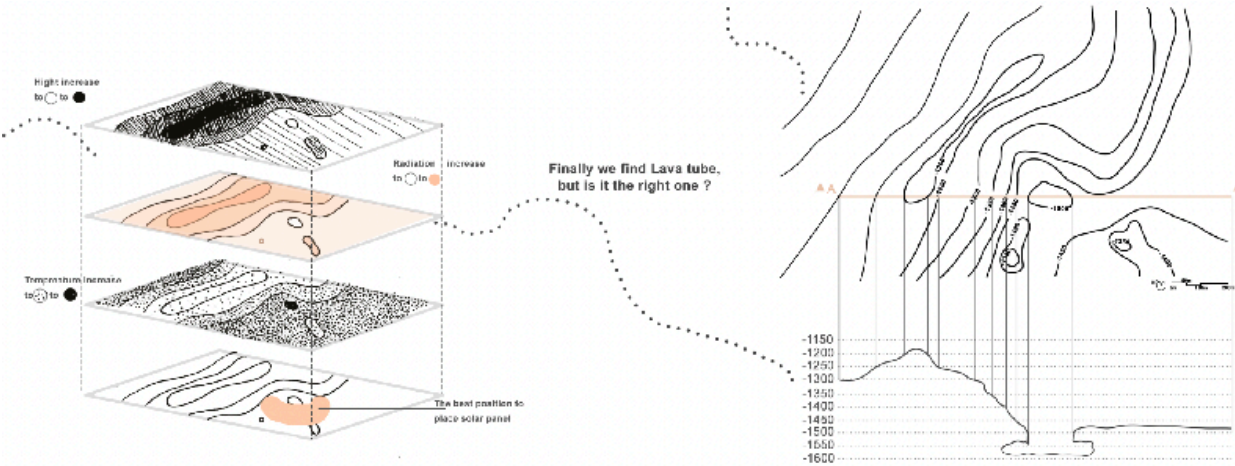
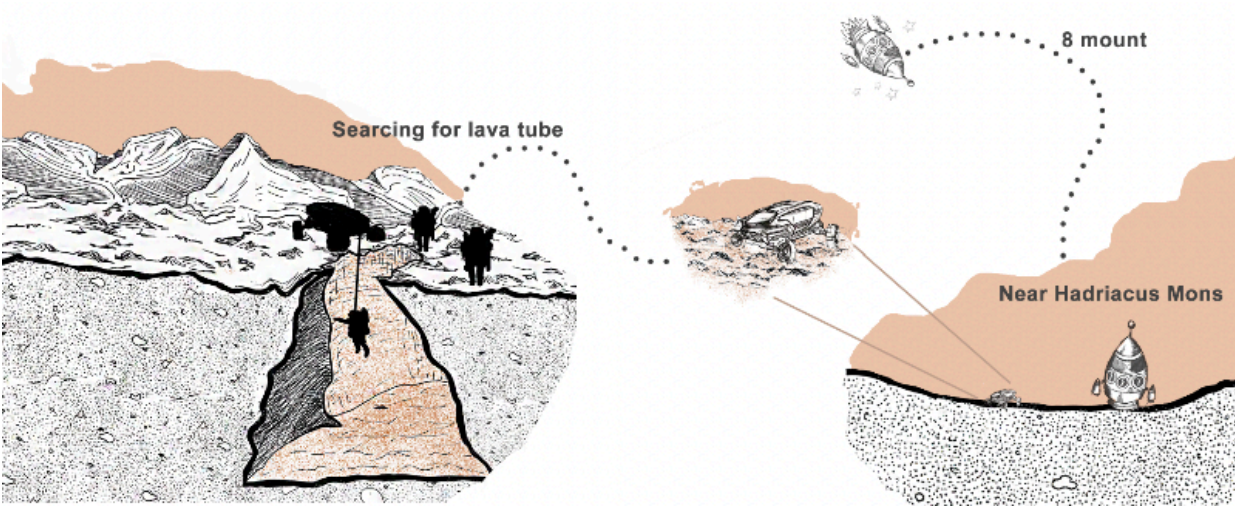
CIRTRIO COLONI

NERGIS ŞENKAYA

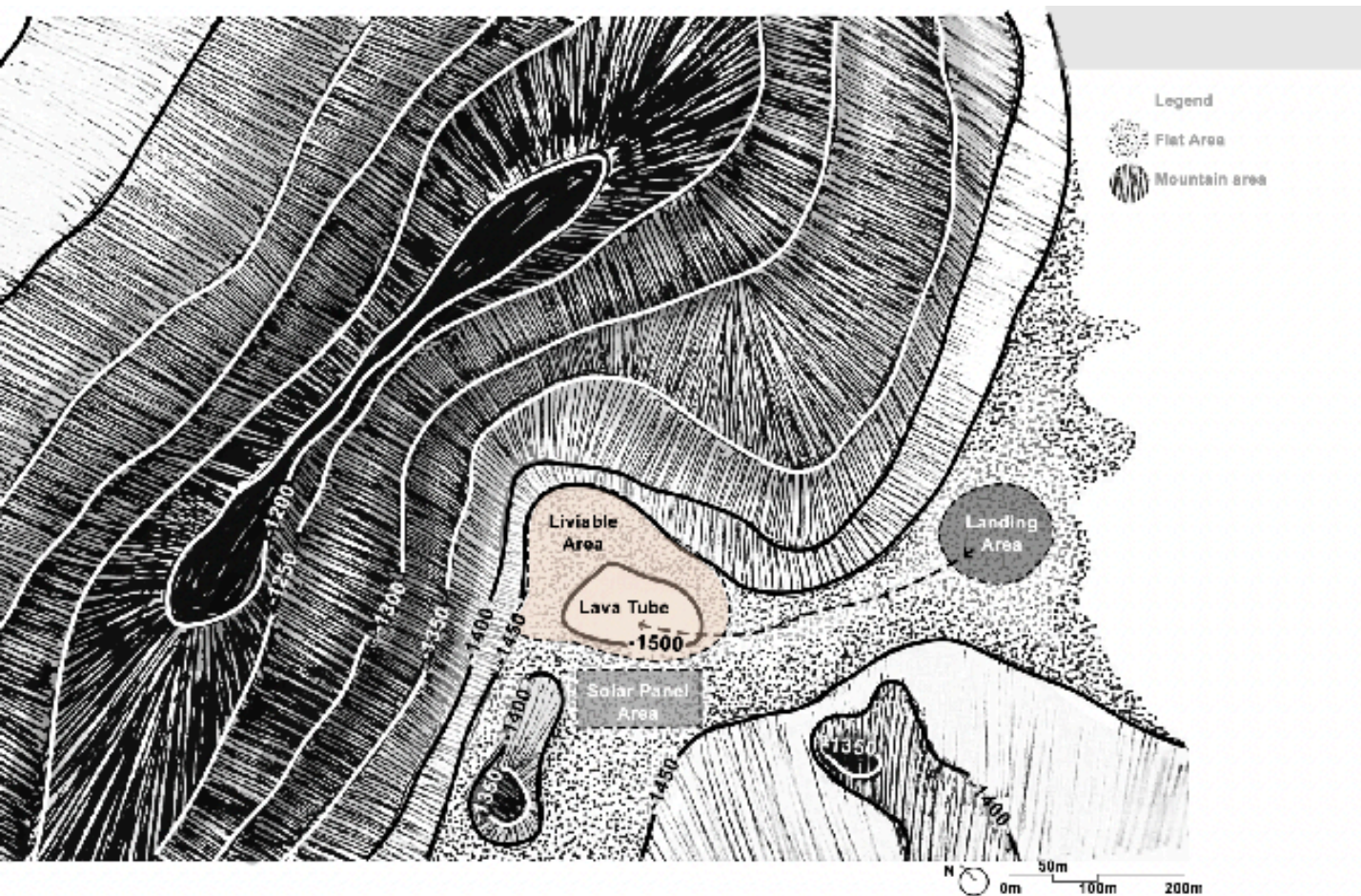
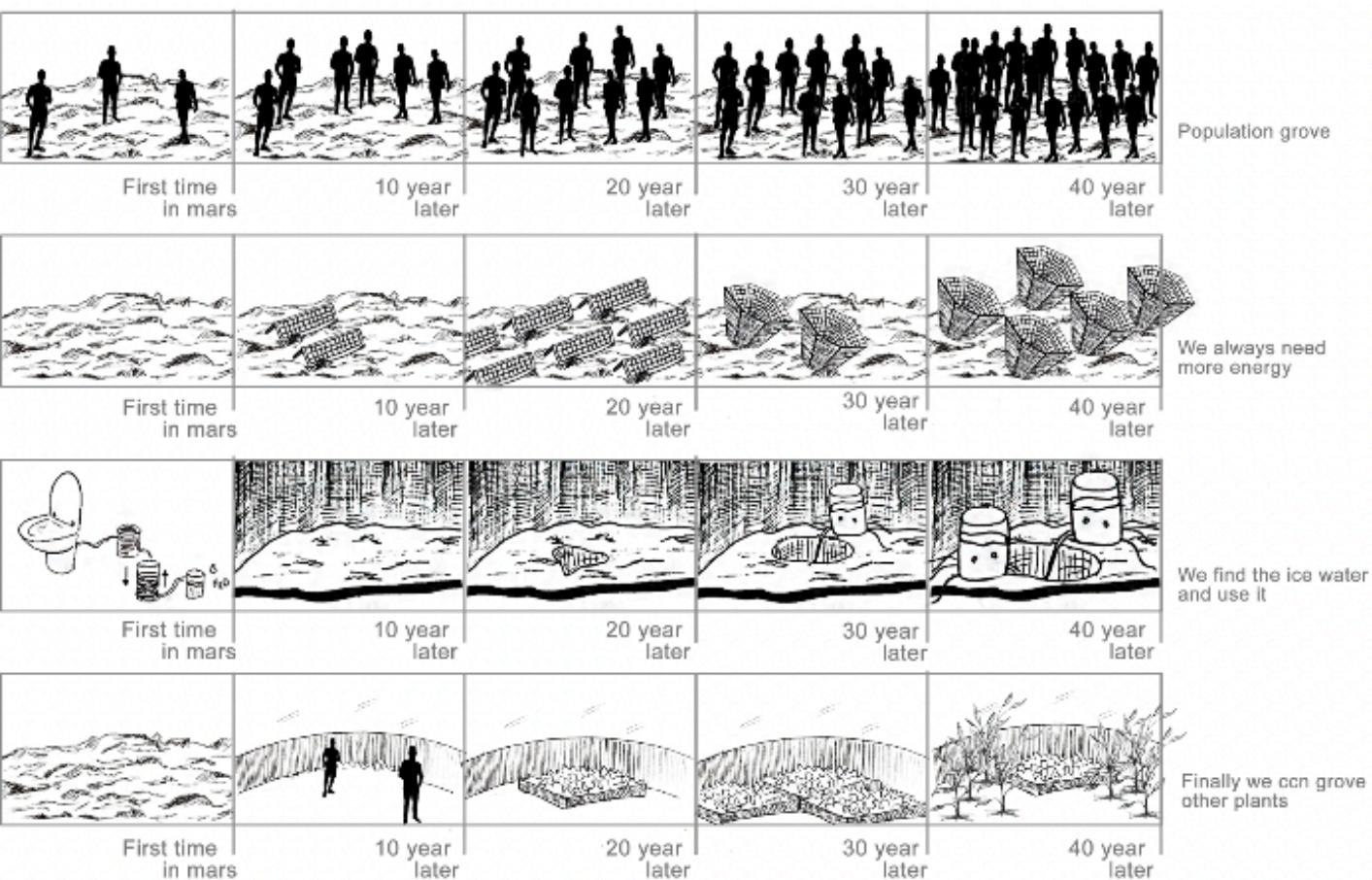
Why Mars

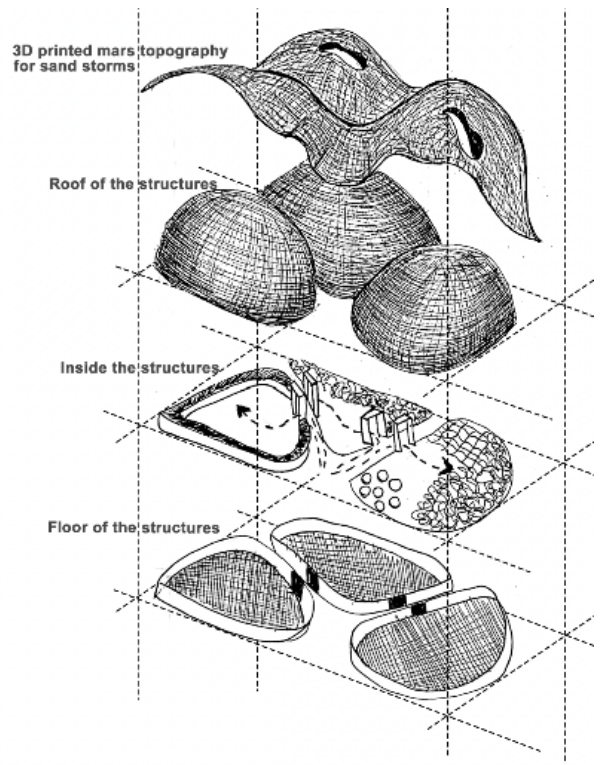
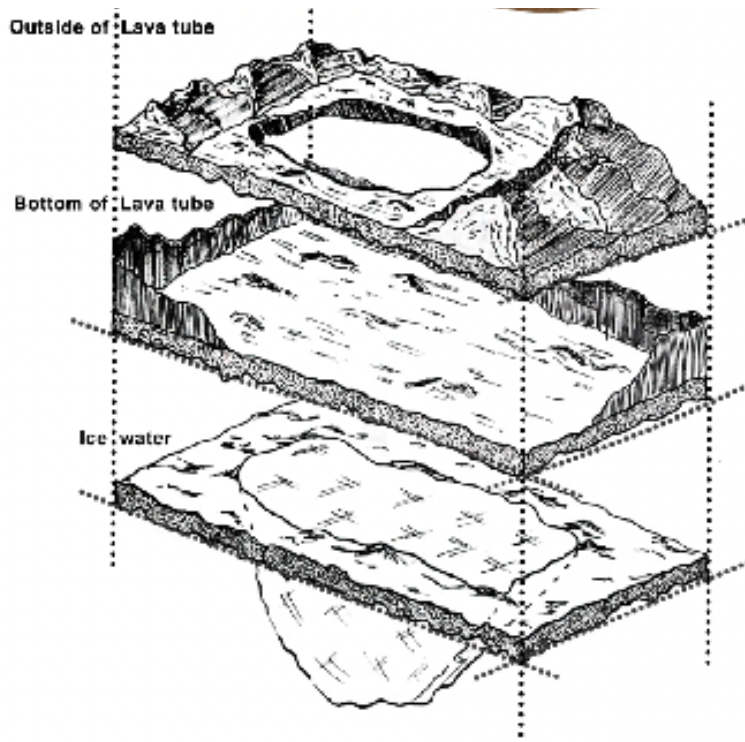
Mars know as the similarty with the earth. Mars has waters, dry ices which are importnt for live. Mars also has minerald soils and different soil types that maybe enables to grove plant. But Mars has really huge radiation affect that makes people cancer or die. Also Mars was really cold planet that human can not stay at outside without special cloth and Mars does not have enough O2 to breath.

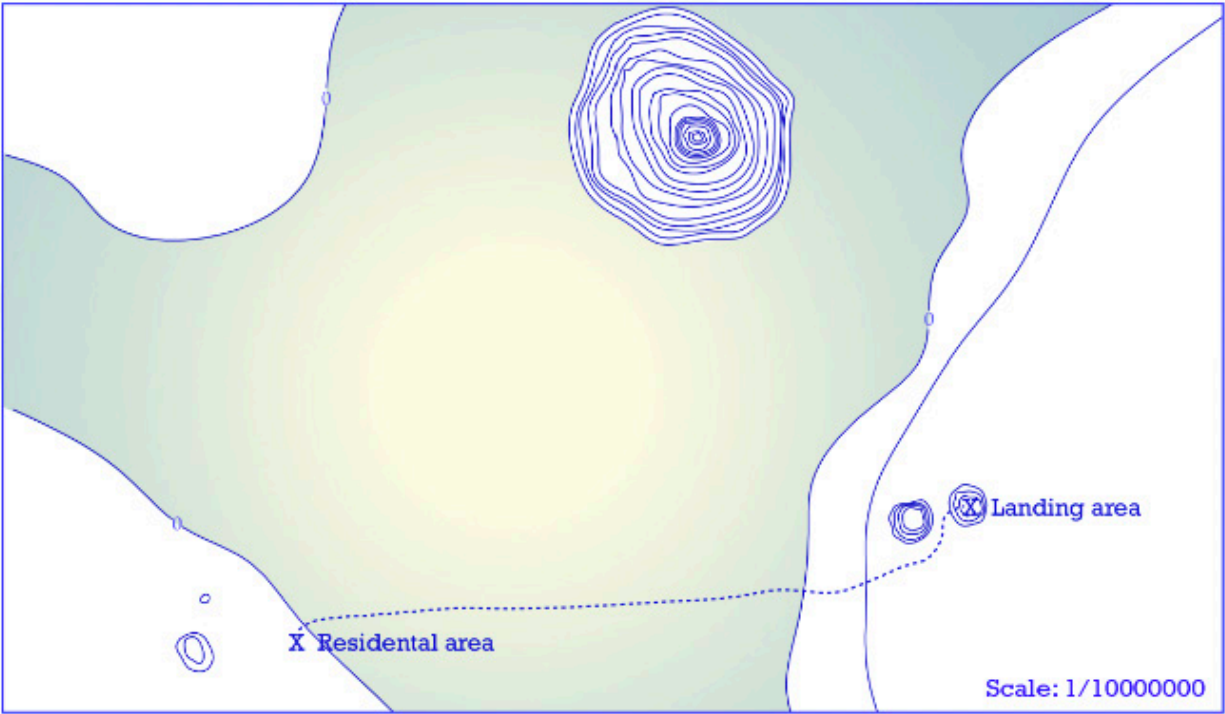
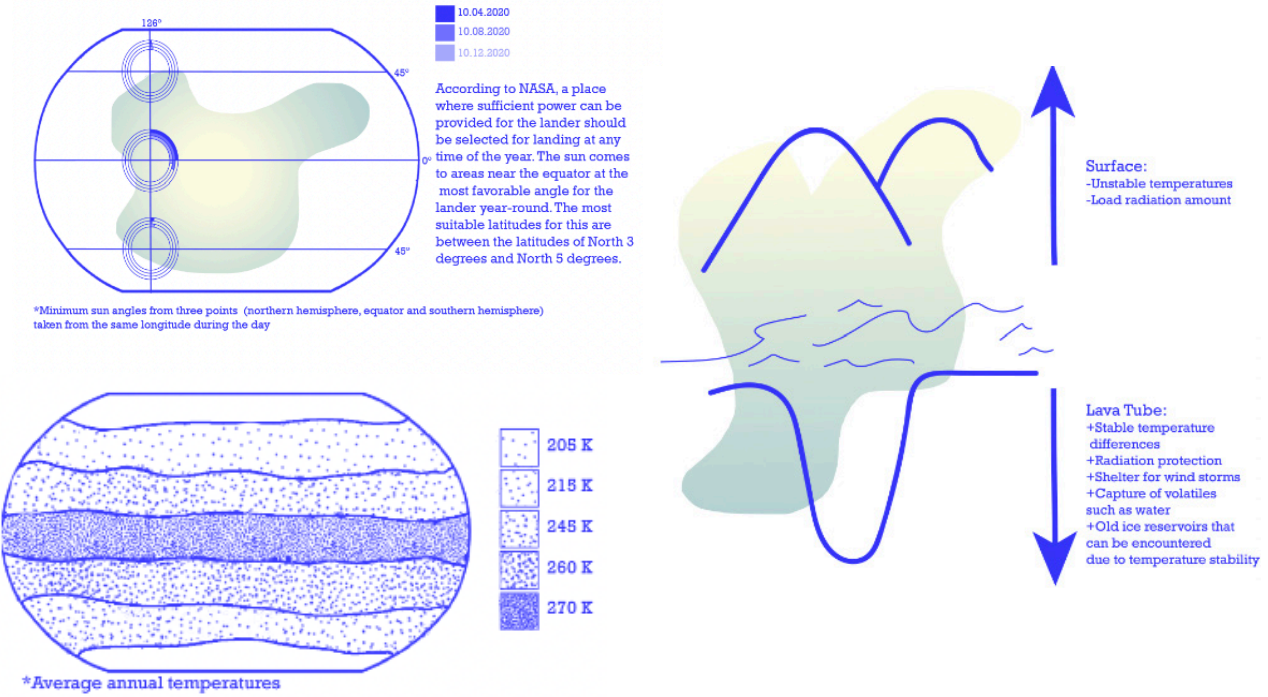
So, How we can find the best place to live?



In Mars;
We need to find water or ice water for our life. Also we need energy for electric and machines. We need places that which can carry our foods and water. We need greenhouses to produce O2 and later we can grove another plants and creater our organic foods. Finally and most important thing is we need a place to be our home...



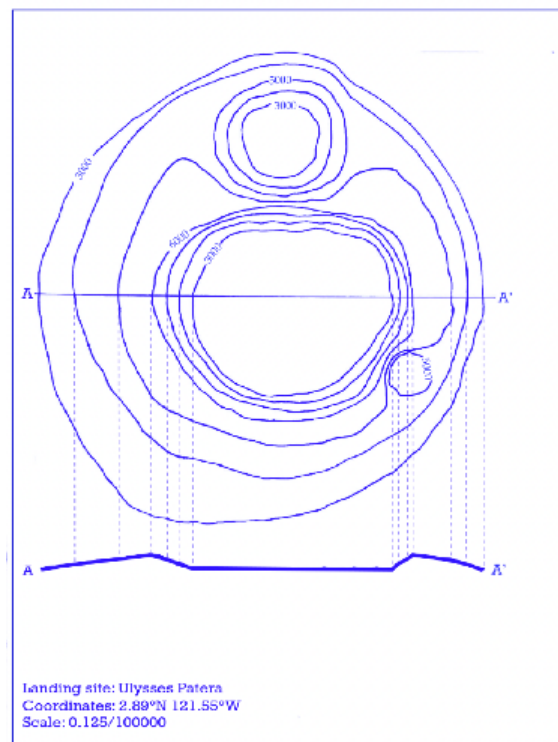
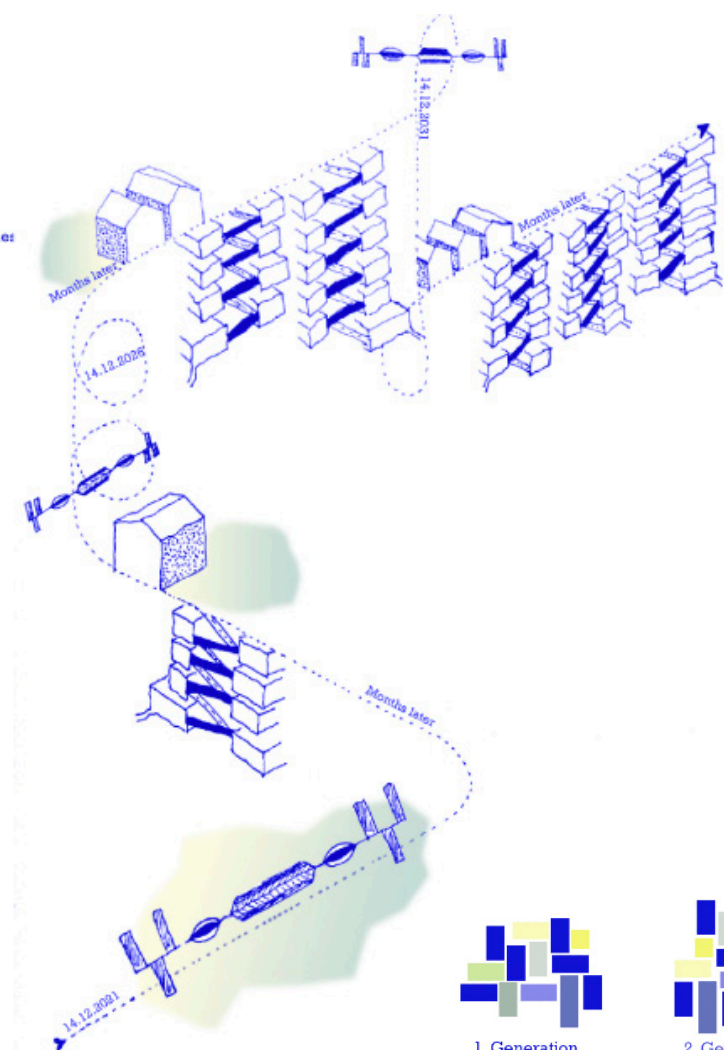




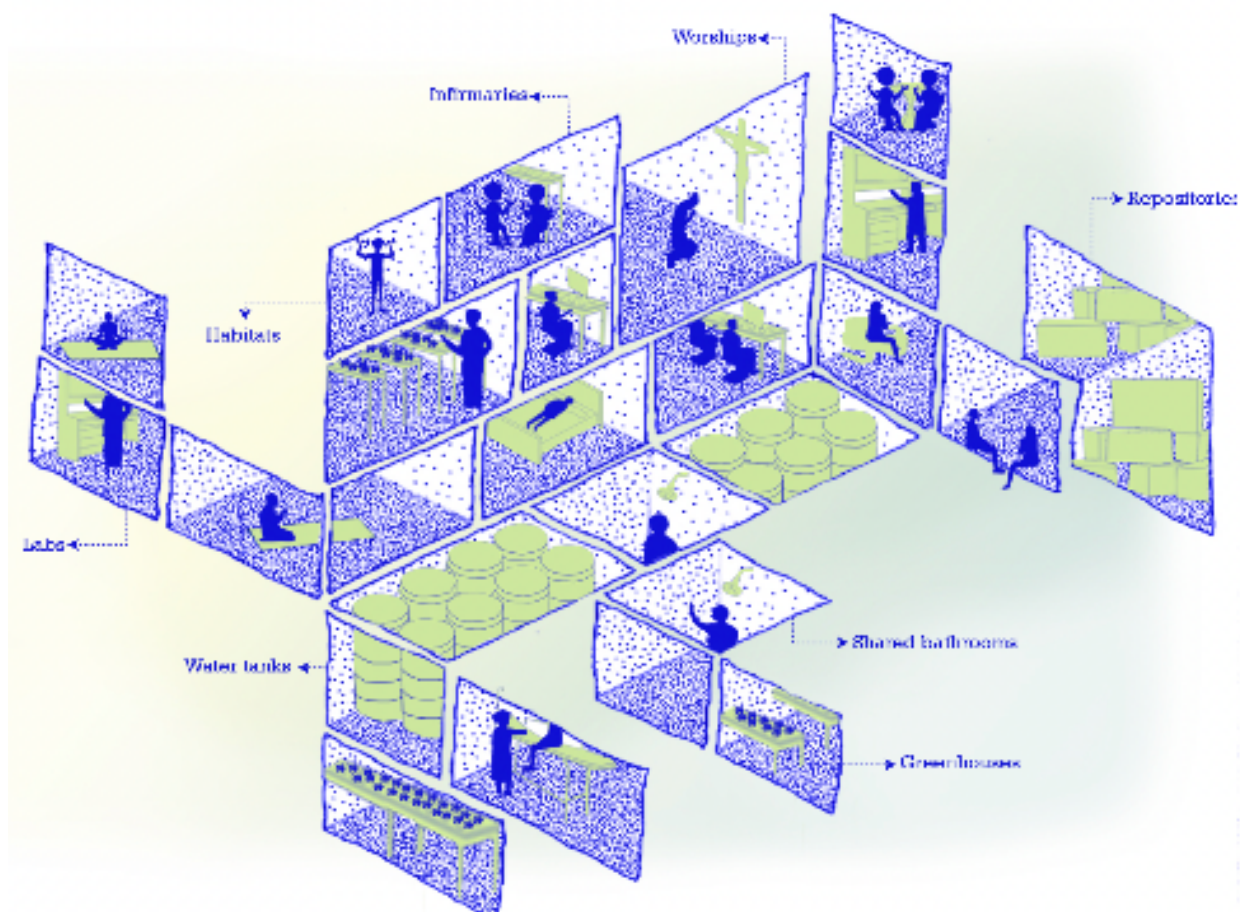
DEEP IN MARS

RÜMEYSA YAPAR





- Habitats
- Greenhouses
- Water tanks
- Infirmaries
- Labs
- Worships
- Shared bathrooms
- Repositories



MODULE II

FUTURE OF LANDSCAPE IN HISTORICAL REALITY

The second module of the studio includes development of design ideas with respect to preliminary investigation of the site. With this perspective the main goal of the second module is to develop small scale design interventions which are going to be attached to the existing spatial setting of the Haliç. The rich historical background of this unique estuary and ecological structure of the landscape will be scrutinized in this module. Site specific design regarding these cultural settings, geographical context and topography will be expected from students.

The design proposals will be developed for the sites which will be chosen by students in the light of their individual assessments. The potentials of the land, topographical advantages, vista points, natural setting, usage behavior, existing spatial layout, historic and cultural characteristics will be leading parameters for site selections.

The decisions on landscape design, the location, spatiality, materiality, structural composition and its relation to topography will be precisely defined by the student.

Following issues should be answered with landscape representation techniques (plans, sections, drawings, axons, isometrics, photo collages, models).

The main purpose, and context of design,

The correlation of the design idea with human and nature,

The unseen historical walls of the city and their relation with public spaces,

The coastal landscape and public usage,

The landmarks in the urban context,

The silhouette of the urban fabric.

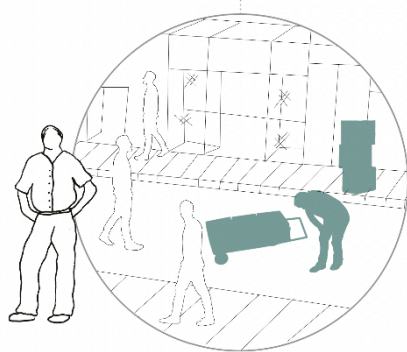
Finally, what is your contribution to this valuable landscape with your design.

MODULE 2 | The Historical Port of Istanbul –HALIC

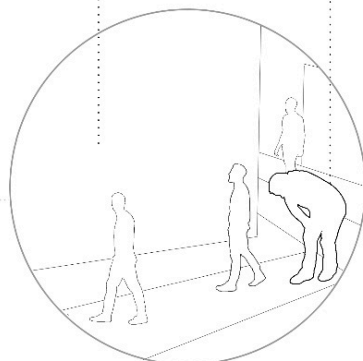
Future of Landscape In Historical Reality

9	14 Dec.	Introduction to the Studio / Program and Context	Studio works
	17 Dec.	Understanding & Representing the Landscape Idea	Studio works
10	21 Dec.	Development of Conceptual Framework / Sketches / Collages / Free scale mapping / Hybrid drafting techniques	Studio works
	24 Dec.	Development of Conceptual Framework / Sketches / Collages / Free scale mapping / Hybrid drafting techniques	Studio works
11	28 Dec.	Through Conceptual Thinking to Design Thinking / Landscape Design Plan & Sections / Scale 1/500	Studio works
	31 Dec.	Through Conceptual Thinking to Design Thinking / Landscape Design Plan & Sections / Scale 1/500	Studio works
12	4 Jan.	Through Conceptual Thinking to Design Thinking / Landscape Design Plan & Sections / Scale 1/500	Studio works
	7 Jan.	Landscape Design with Model / Structures in landscape/ 1/200 scale landscape design	Studio works
13	11 Jan.	Landscape Design with Model / Structures in landscape/ 1/200 scale landscape design	Studio works
	14 Jan.	Landscape Design with Model / Structures in landscape/ 1/200 scale landscape design	Studio works
14	18 Jan.	Detail Design in Landscape / Materials, point details. Urban furniture	Studio works
	21 Jan.	Detail Design in Landscape / Materials, point details. Urban furniture	Jury, Panel and submission

COSTA VERDE NERGİS SENKAYA



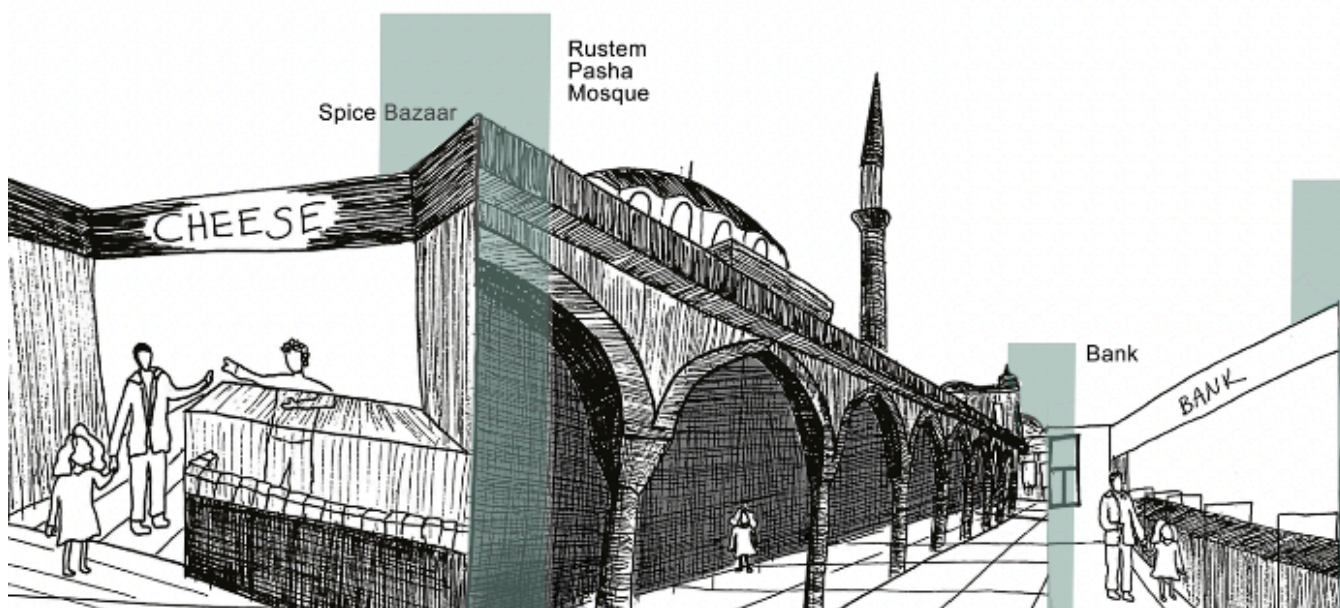
It is very difficult to carry goods due to the bad road and the slope.



There are blank walls in the area. Urban furniture can be made for people who get tired on the empty walls in the area.

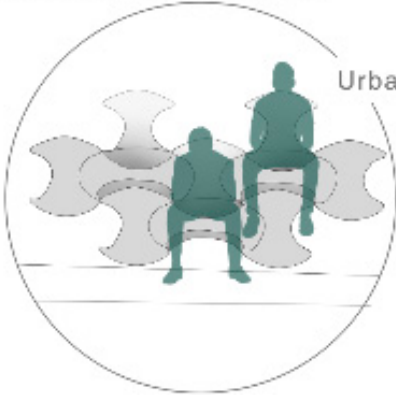


Climbing the hill is very tiring, no place to rest



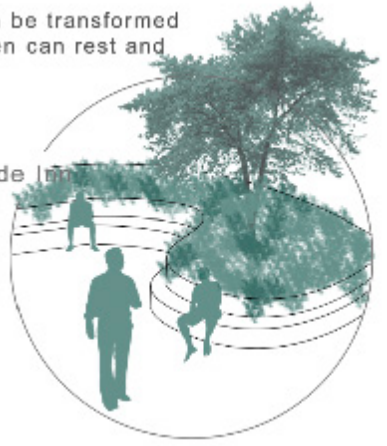
The courtyard of the inn can be transformed into an area where tradesmen can rest and tourists can also listen.

It would be more efficient to use urban furniture attached to the wall in narrow streets.

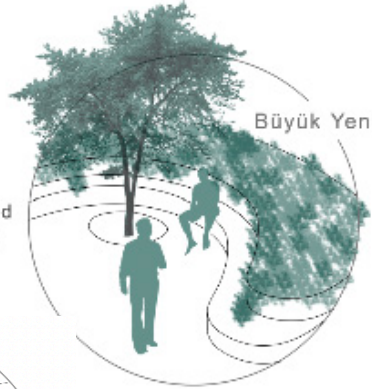


Urban furnitures

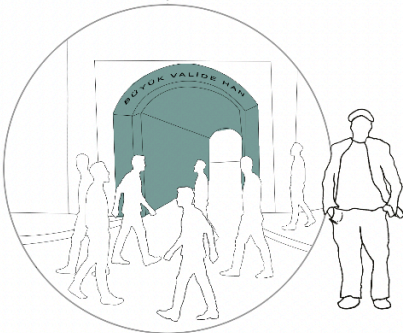
Büyük Valide Inn



Büyük Yeni Inn



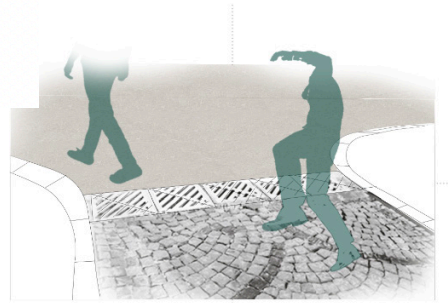
The courtyard of this inn can be transformed into an area where tradesmen can rest and tourists can also listen.



There is an inn in the middle of the slope at the closest distance to each road, but its courtyard is only a parking area



People can fall due to the bad designed and crowded roads.



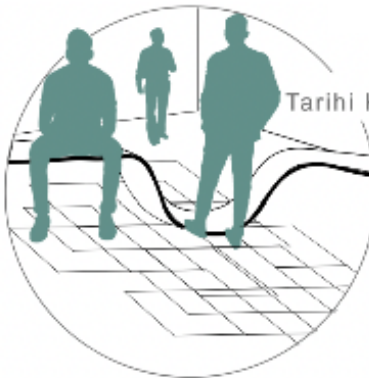
Roads

Some parts of the roads are rough and make walking very difficult. In some areas, the road suddenly turns asphalt. Roads must be designed.

Fabric shops-My grandfathers friend

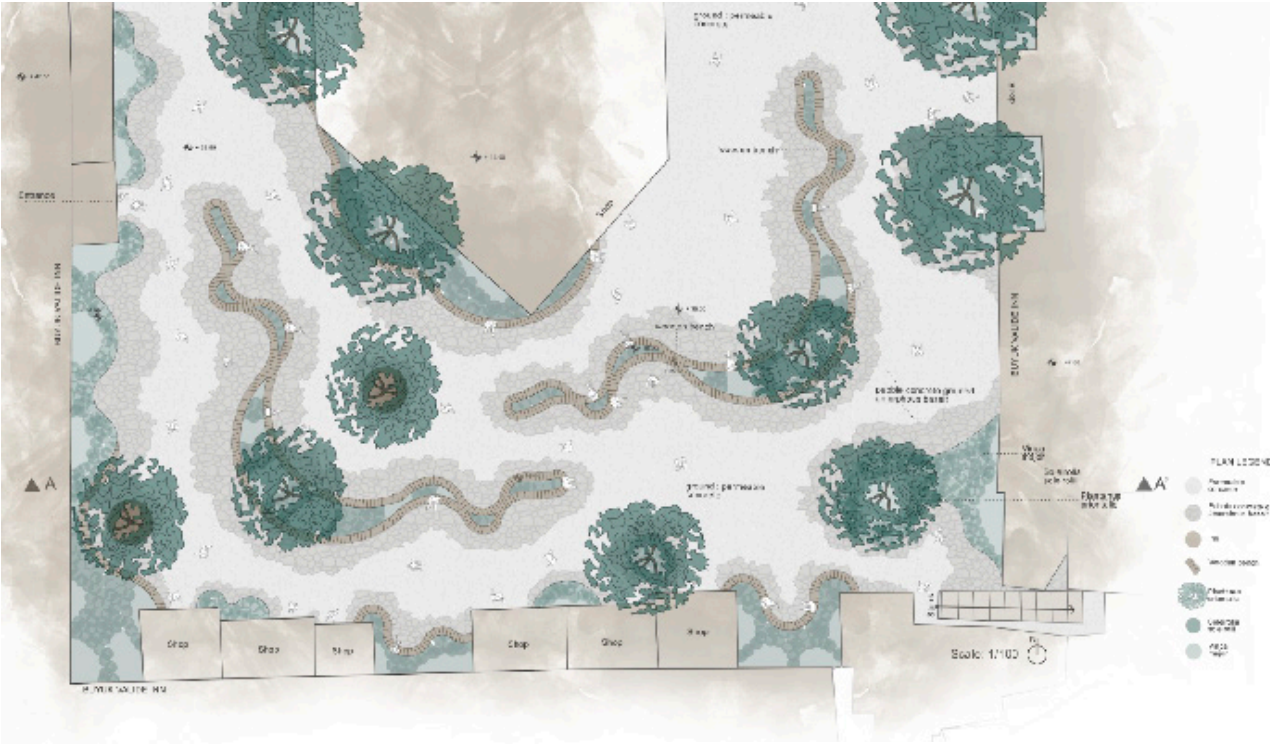


Tarihi Kürkçü Inn



This area is still busy but there is still no place to rest while shopping in the area.

I designed urban furniture for this inn and wanted to take attention with flooring to the furniture.



Scale: 1/500



Plantanus orientalis



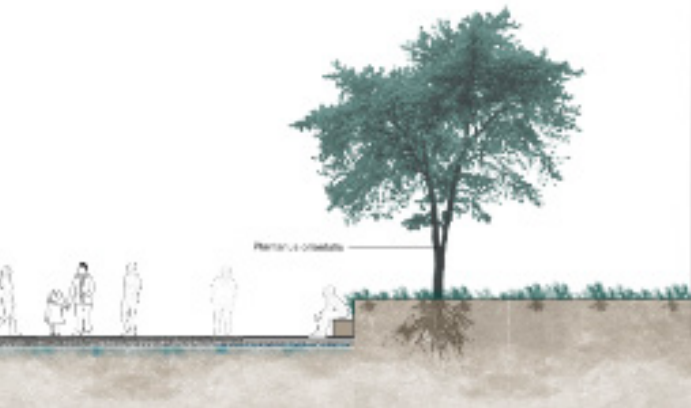
Vinca Soleirolia major soleirolii



Winter



Happy End



Scale: 1/100
AA' Section



BÜYÜK VALİDE İNN

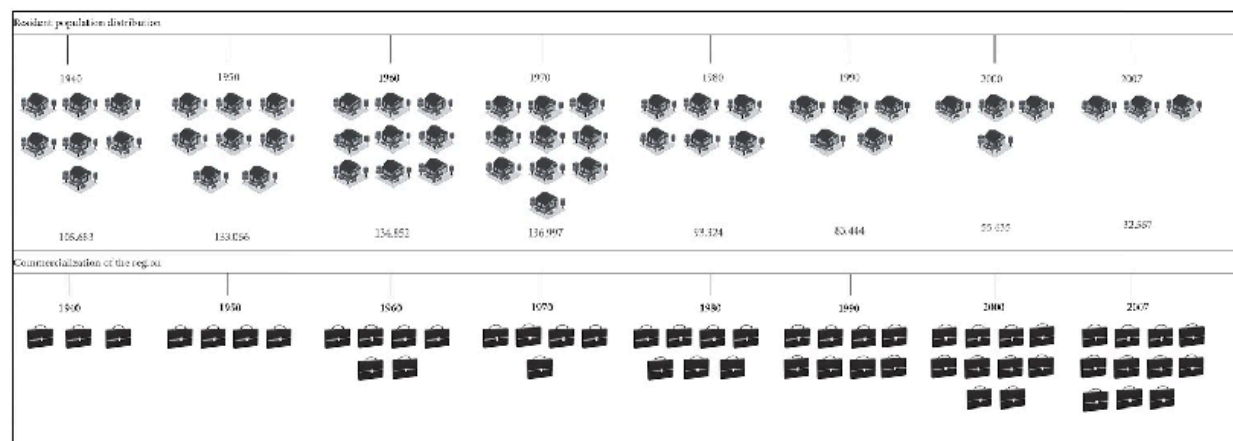
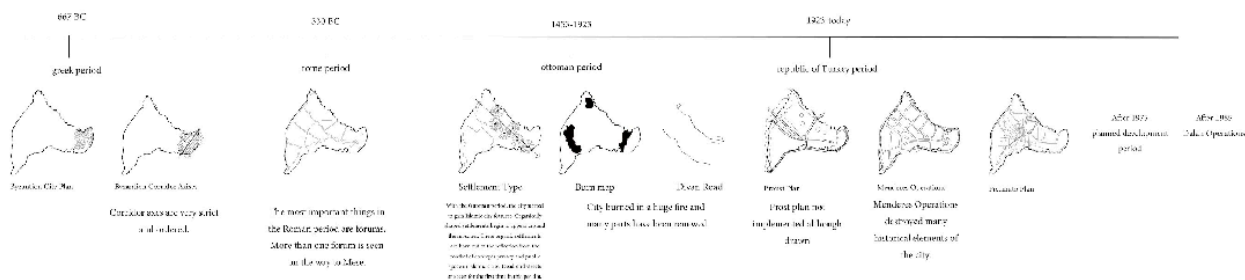
SECTION LEGEND

- Permeable concrete
- Pebble concrete grouted amorphous basalt
- Inn
- Wooden bench
- Plantanus orientalis*
- Soleirolia soleirolii*
- Vinca major*

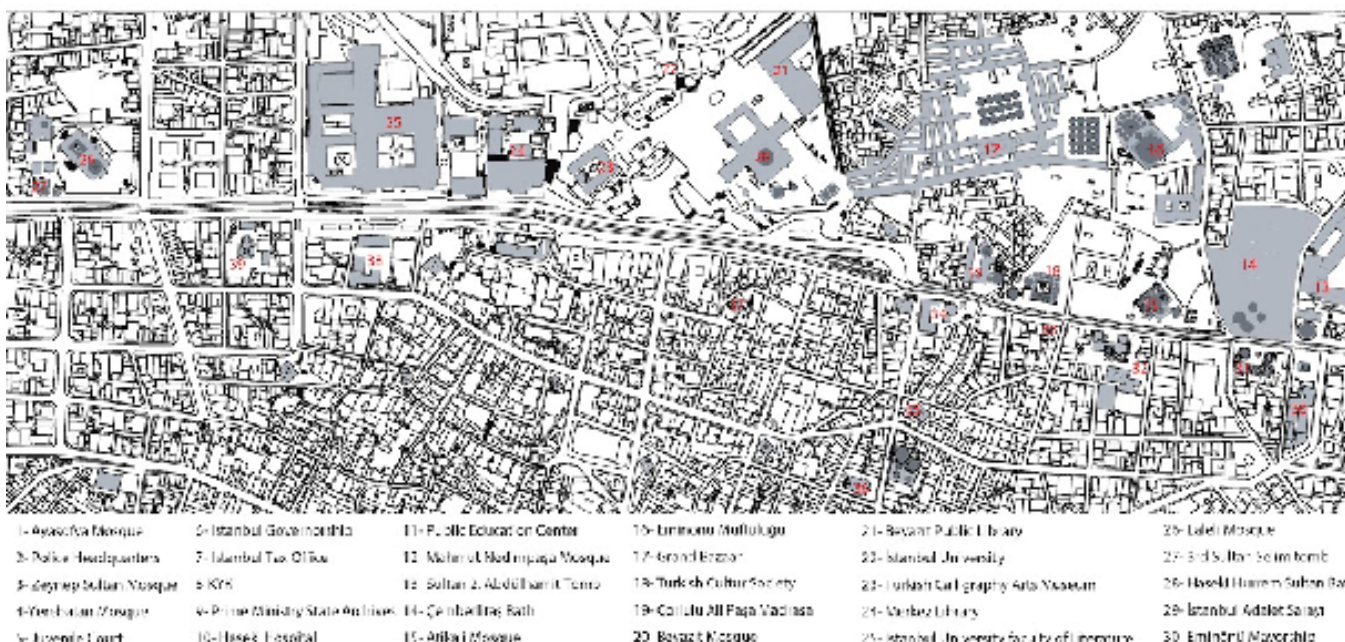
AN ISTANBUL STORY: DIVAN YOLU

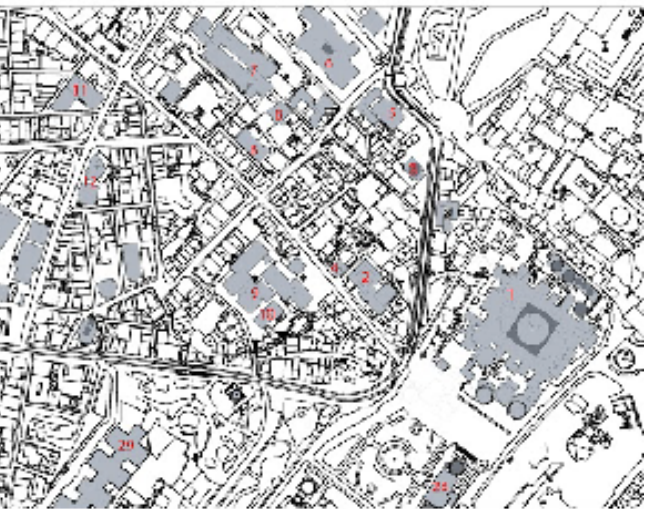
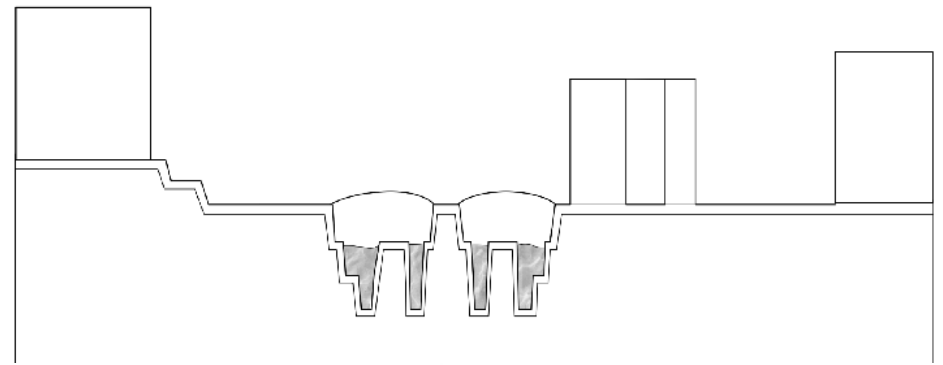
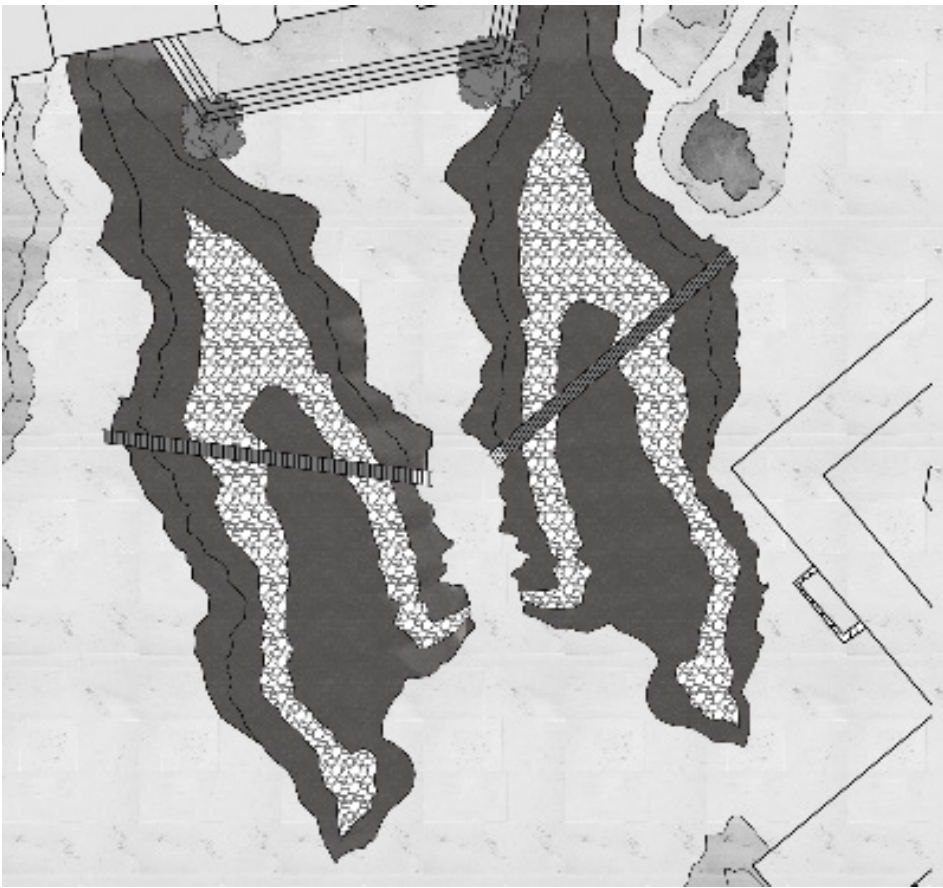
IREMNUR ALACA

Figure 1 consists of four maps of the city of Zurich, arranged in a 2x2 grid, showing the evolution of the power grid. The maps are labeled with years: 1859 (top left), 1864 (top right), 1896 (bottom left), and 1906 (bottom right). The maps show the increasing density and complexity of the power lines over time. The 1859 map shows a simple line connecting a power station to a few buildings. The 1864 map shows a more complex network with multiple lines and buildings. The 1896 map shows a dense network of lines and buildings. The 1906 map shows a very dense network of lines and buildings, with a transformer station indicated by a small circle and labeled 'transformator'.



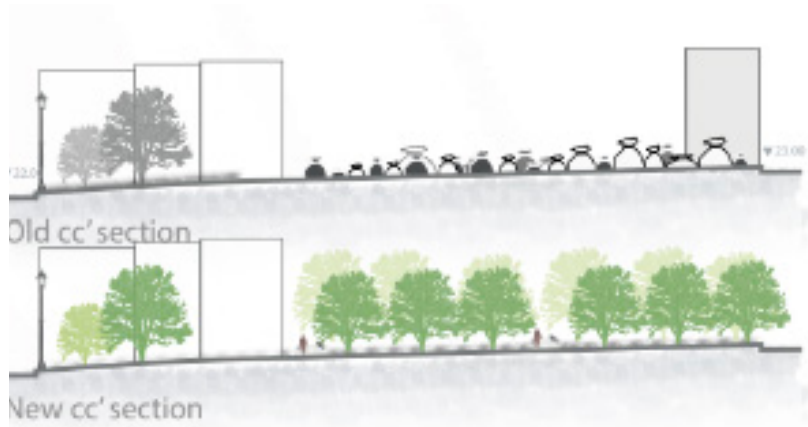
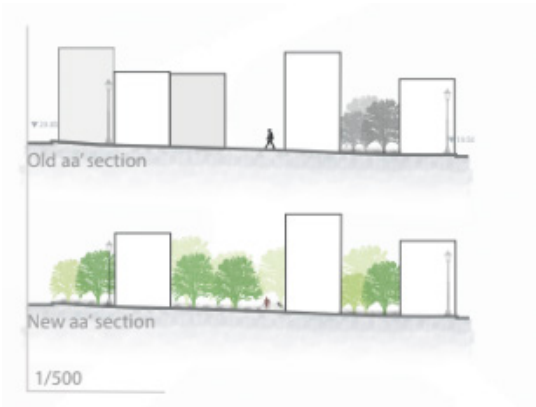
Today's Condition





- | | |
|--|--|
| 31- Koca Çiğirli Mehmet Paşa Mosque | 36- Çelebi Mehmet Armenian Protestant Church |
| 32- Çelebi Mehmet Armenian Protestant Church | 37- Dikilitaş Ermeniler Mosque |
| 33- Nispetiye Hippodrome Mosque | 38- Gedik Paşa Elementary School |
| 34- Koca Mustafa Paşa Mosque | 39- Hacı Bektaş Veli Mosque |
| 35- Koca Mustafa Paşa Mosque | |

A NEW HALIÇ TUGBA KURT

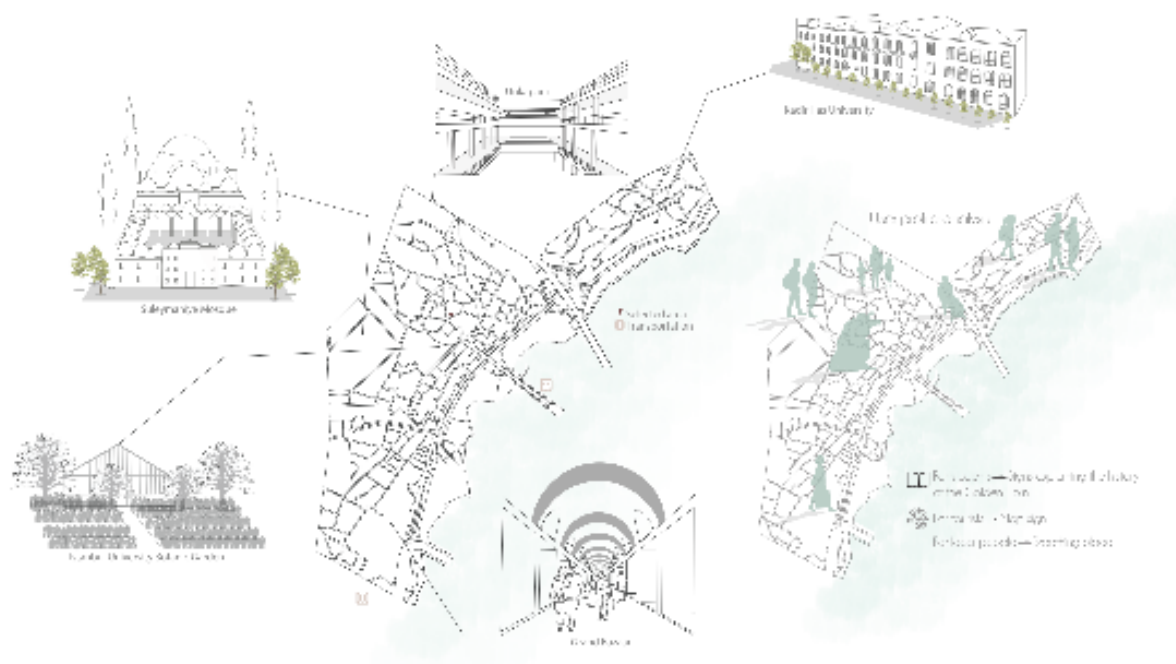


Sulhanevler Mosque

İstanbul University Historic Garden

Selected area







COMMON MODULE

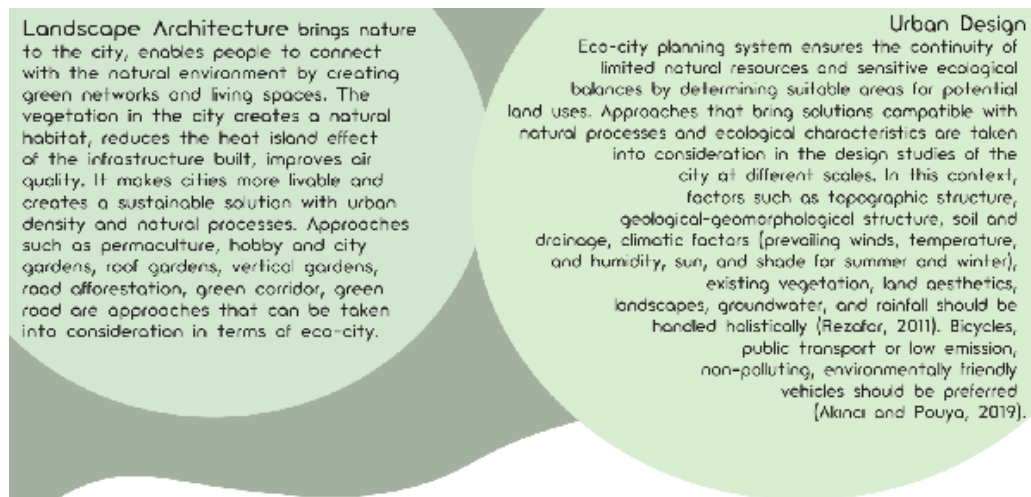
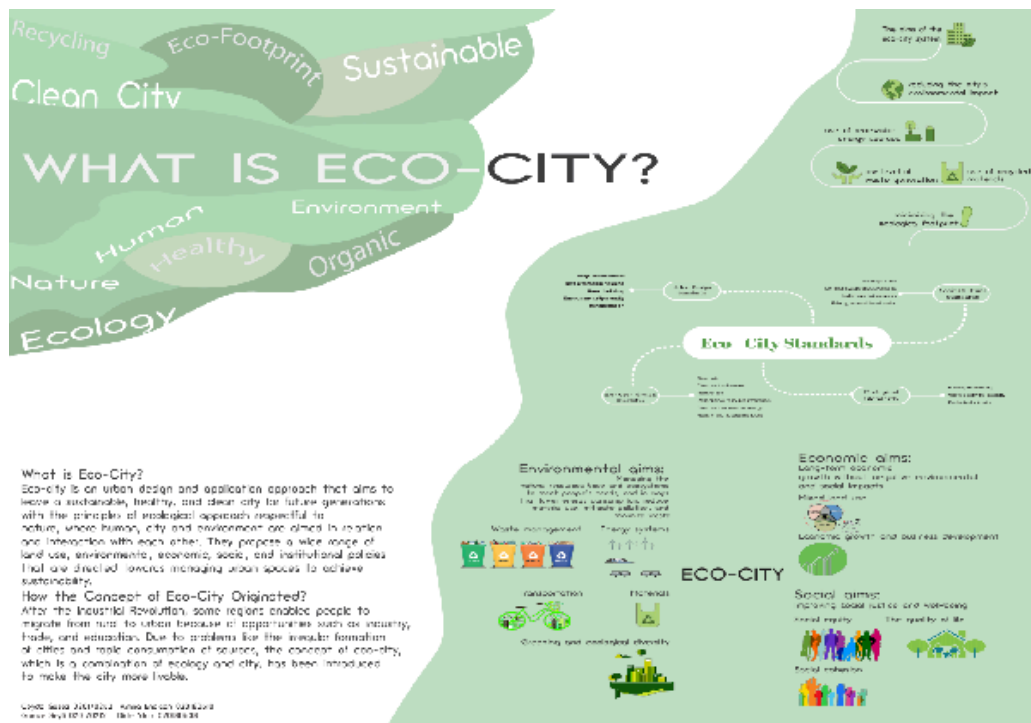
COMMON MODULE

Contemporary Agenda | Observing emerging environmental issues with design

This common module will be held within Project III of the Foundation Studio for three studio meetings of the Fall semester of the 2019-2020 academic year. The activities of Common Module– Contemporary Agenda are designed to bring an approach towards the definition and perception of “ecological issues”, “environmental change” and the “virtual design” in the disciplines including urban and regional planning, and landscape architecture. These topics include Climate change, International migration, Smart city, Eco-city, Universal design, Foot security, Virtual landscape, etc.

Altogether, the instructors will provide a learning environment for students from these departments. Attendees will work on common design problems, be expected to apply the knowledge and use the skills acquired via their respective experiences of their previous and current semesters.

5	16 Nov.	COMMON MODULE <i>Seminars on Landscape Architecture and general information on common module process.</i>	Seminar
	19 Nov.	COMMON MODULE <i>Seminars on Urban and Regional Planning and information about term paper and study groups and student distributions.</i>	Seminar
6	23 Nov.	COMMON MODULE <i>JURY: Final Panel of the workshop productions and critics</i>	Jury, Panel and submission



VIRTUAL LANDSCAPE

Following the etymological definition, the word "virtual" originally denoted by a simulated or mediated by computer software. In definition, and "landscape" means form and forms of a region in the geographical. In a combination of these two words, it was a virtual landscape means the forms and components of a region in geographic, virtual or temporarily simulated or mediated by computer software."



Figure 1: A person standing in a virtual landscape environment, possibly a simulation or game.

VR has been known all the recent years, and it has been used in a variety of different fields, including military training, education and sport. VRSA uses VR software to control the robots or Mars. It has been argued to be used to treat mental health conditions by modeling related mental experiences, times of relaxing spaces and visually. This software (3D virtual landscape) is particularly helpful in being the way used in architecture and garden design.

WITHOUT VIRTUAL LANDSCAPE	WITH VIRTUAL LANDSCAPE
<ul style="list-style-type: none"> • Absence of sufficient maps • Plans are hard to understand for a client • Absence of working drawings, causing neither the stakeholders nor the public 	<ul style="list-style-type: none"> • Real-time virtual landscapes enable the inclusion and participation of a diverse population • Better manipulation of landscape elements • Increased educational rendering • The ability to choose and change designs immediately • The ability to switch between any previous iteration



Figure 2: A virtual landscape environment showing a large, curved, white structure, possibly a building or a landscape feature.

3D Landscape models include:

- Digital terrain model (DTM)
- 2D imagery data, such as aerial photography or topographic maps
- 3D point cloud data, such as airborne laser scanning data
- 3D building data
- 3D landscape and vegetation data

The landscape model can be implemented by graphics objects (textures, wire, volume, sky, legend).

VR means a digital 3D experience that we can see, hear, and allow the user to instantly engage with the space. They can explore and visualise designs by walking through gardens to see their future building has been begun. VR gives the design process a head-to-toe as the design develops, rather than producing photographs of a scene. This can be achieved by adding sound, which is often, allowing the user to hear the sound of the garden changes through the seasons.



Figure 3: A screenshot of a 3D landscape model software interface showing a virtual garden design.



Figure 4: A virtual landscape environment showing a large, curved, white structure, possibly a building or a landscape feature.

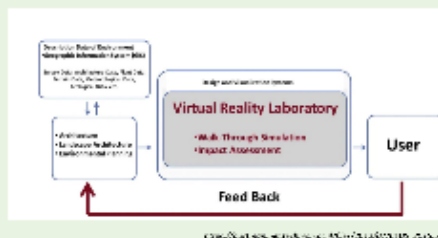


Figure 5: A flowchart diagram showing the process of a Virtual Reality Laboratory.

THE IMPORTANCE OF ARCHITECTURE IN VIDEO GAMES

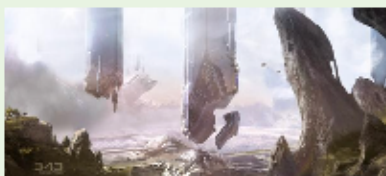


Figure 6: A screenshot of a video game environment showing a large, curved, white structure, possibly a building or a landscape feature.

Video game architecture can be perceived as dynamic, potentially shifting shape around real-time inputs and conditions. It can be based on movement features, bringing the architecture to the ways in which physical building could ever achieve.



It can therefore add a lot of variety to game environments and perspectives throughout the world, and it can be used to create a sense of place and atmosphere. Video game architecture can be used to create a sense of place and atmosphere, and it can be used to create a sense of place and atmosphere.

SANSSOUQ PARK

A prominent use case for implementation of real-time virtual landscapes has been implemented by reconstruction of a "New garden", the former "British cultural spaces". It was largely arranged by Peter Joseph Turner (1759–1865).



Figure 7: A map of Sanssouci Park showing the layout of the garden and the location of the 'New garden'.

The garden was laid down in 1834 to the west of the Roman Baths in Sanssouci Park. Within only 57 years after its creation, the garden was closed to the public due to money or the garden was not well-maintained in the end of the 19th century.



Figure 8: A screenshot of a video game environment showing a large, curved, white structure, possibly a building or a landscape feature.

In 2004, more than 20,000 people visited the exhibition "Prussian Garden: From Royal Court Gardens to Cultural Spaces". The exhibition was held in the former "British cultural spaces". It was largely arranged by Peter Joseph Turner (1759–1865).