

MARTIAN RING

the first human colony



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Human civilization has been developing swiftly and steadily. Cities grow, absorbing all on their way; along with them population of our planet also increases, presently it exceeds seven billion people and only 100 years ago total population of the planet made around one billion. In turn the increase in population involves reclaiming of larger territories. Deforestation, marshland reclamation, all these phenomena are the consequences of human being's inexpugnable desire for reclaiming more territories in order to broaden his life surrounding. At such rate in the near future there will be no places on the Earth free from people. Even the most uninhabitable territories will be occupied.

In 100 years major part of the planet will be urbanized and in another 200 years it will be fully covered with megalopolises. Under such conditions people will have to find new territories for reclaiming and further development.

The basis of our concept is a progressive broadening of human habitation boundaries due to exploration of space (other planets). As it is difficult to imagine human life without its natural environment, plants and animals will occupy other planets after people. In future life will prosper in places, where it could not exist before.

Every new stage of human development starts from a scientific or cultural breakthrough. Invention of Internet can serve as an example; its appearance marked the beginning of new stage of human development. And what will follow era of information technologies?

In our opinion, a new step of human evolution, evolution of thoughts is going to come.

In 2023 the first people will set feet on surface of Mars as a research expedition. That will be the first people, from whom a new era in the history of mankind, the period of cosmic exploration will start. This first experimental colony is nothing but one of stages of earthmen's preparation for creation of the first human colony outside their native home – the Earth.

Why did scientists choose exactly Mars? NASA scientists confirmed the theory that water in liquid state had previously been on Mars and even complicated life forms had probably existed, but owing to excursion of the planet orbit all water available on Martian surface went from liquid state to solid, crystalline one. Crystal ice lies under crust of dust and stones at a small depth. Martian climatic conditions, which do not differ from the Earth's ones so much as from other discovered planets, also confirm viability of the planet under consideration.

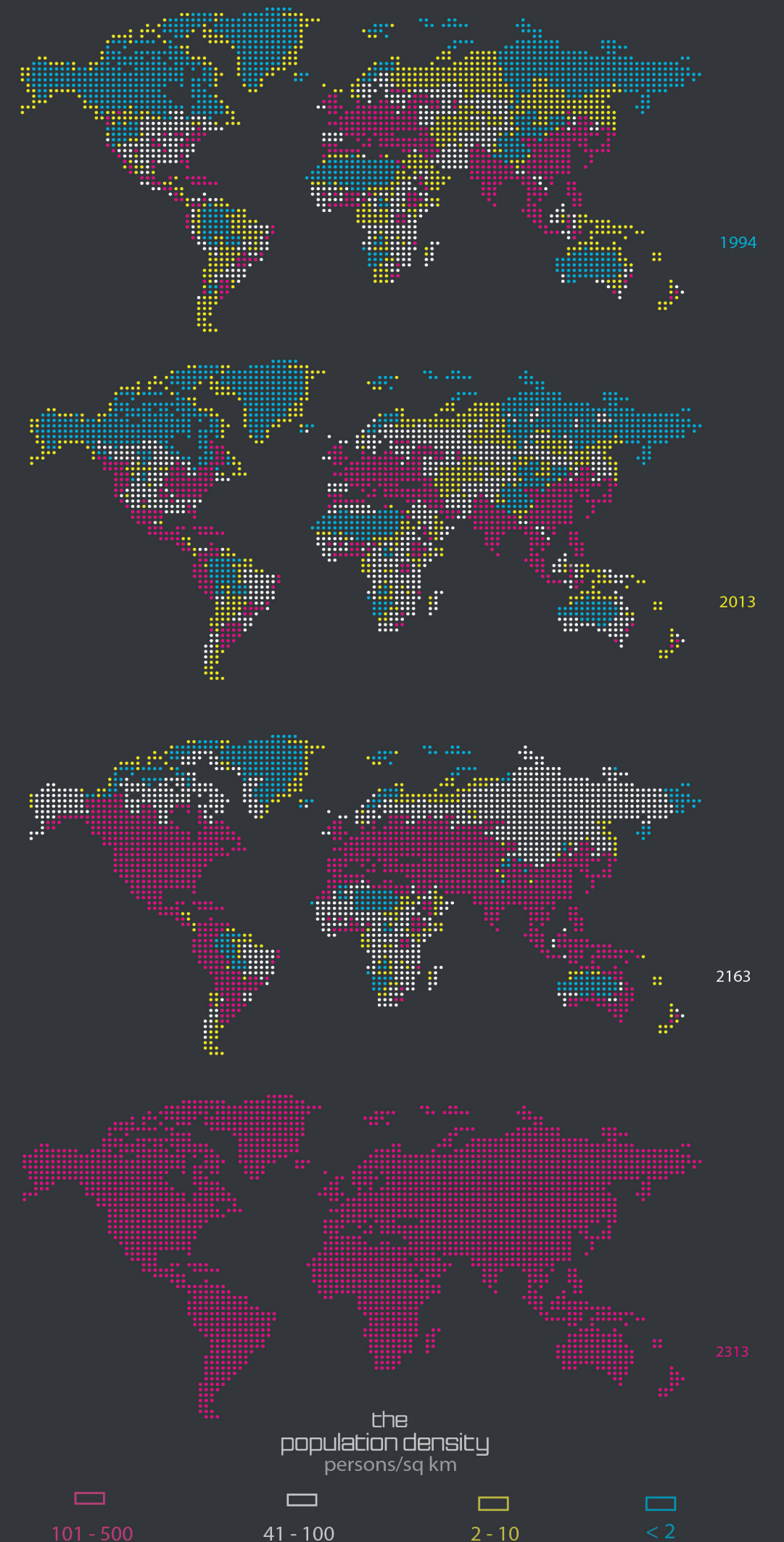
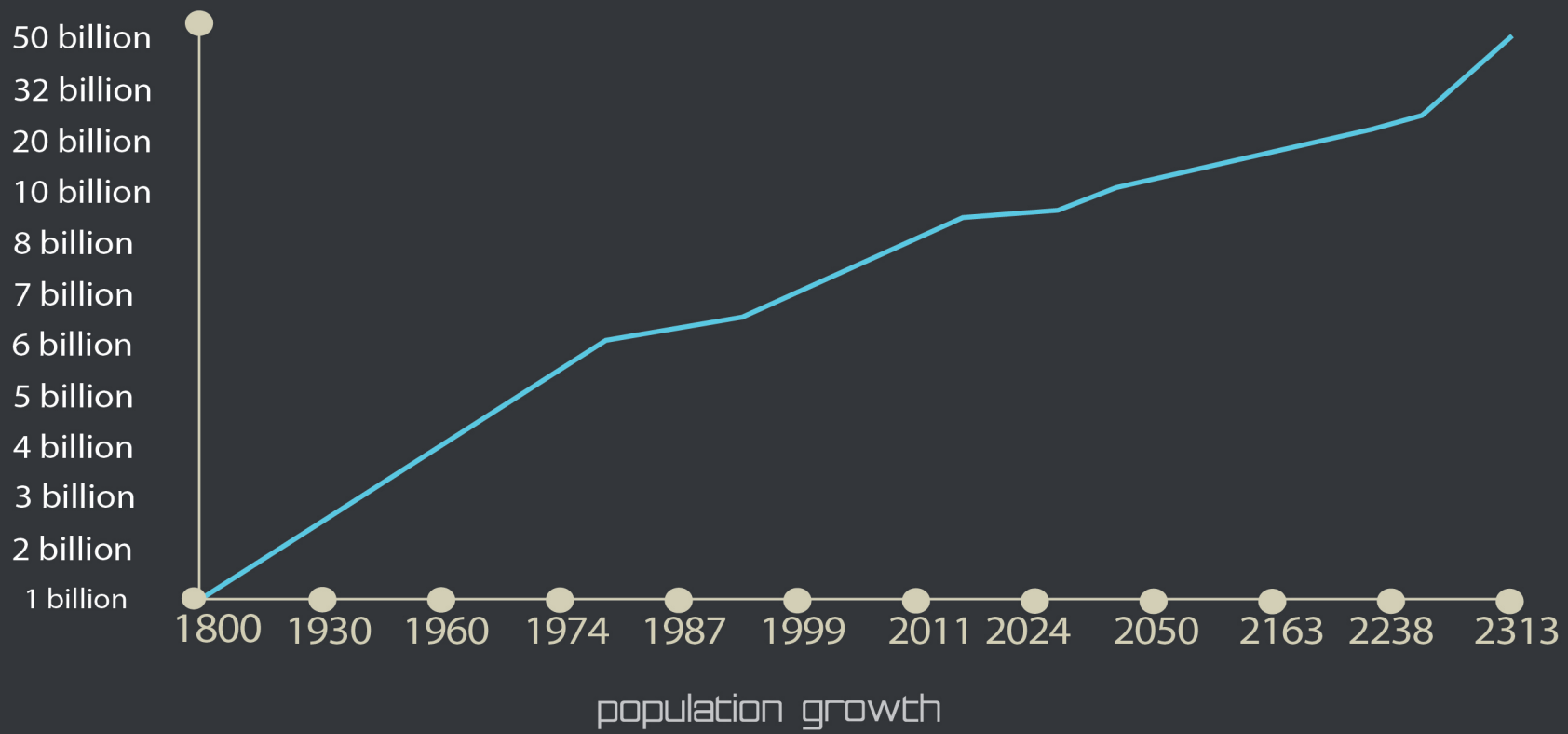
Researching these aspects and taking into account rates of science and technology development, our proposal is a ring around Mars, surrounding the whole planet along the equator.

The ring on Mars is a closed self-sufficient off-line megastructure, which contains all functions for comfortable existence and development of all life forms.

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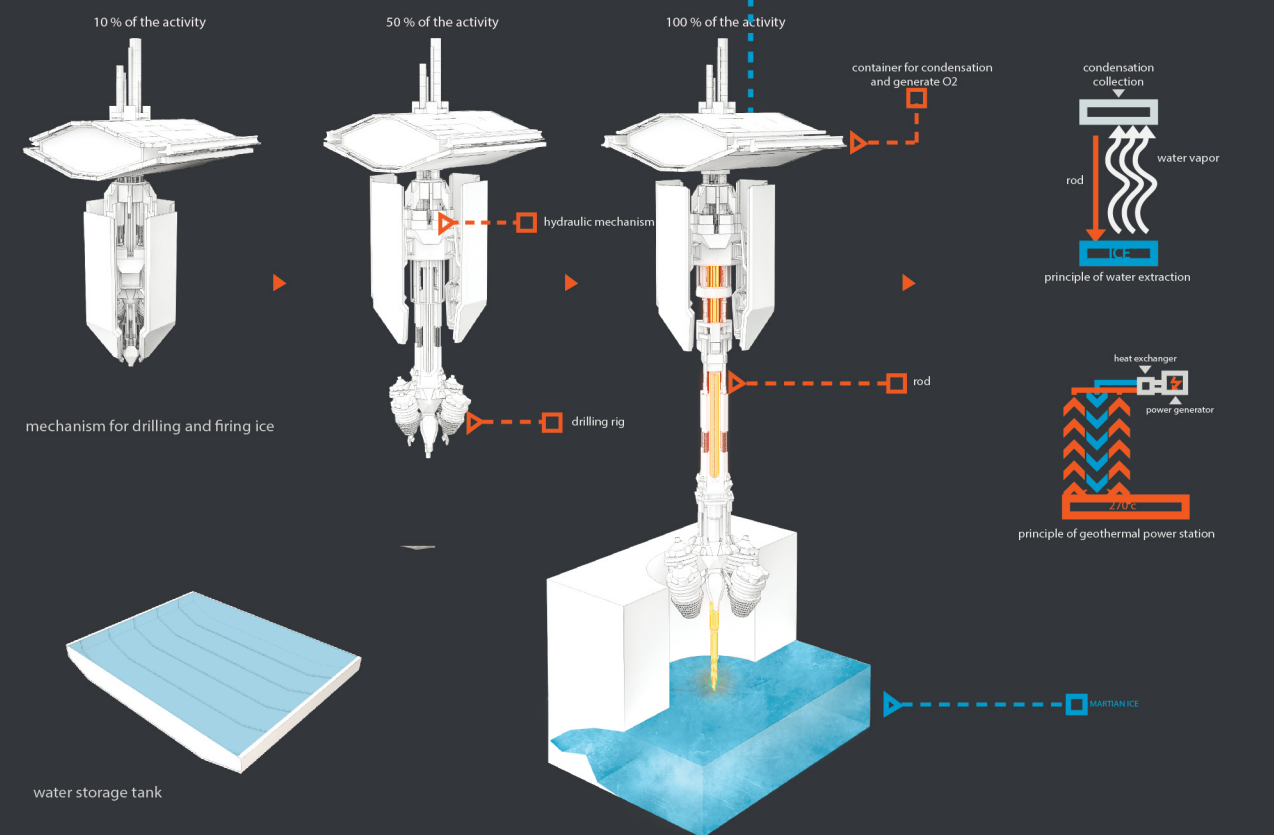
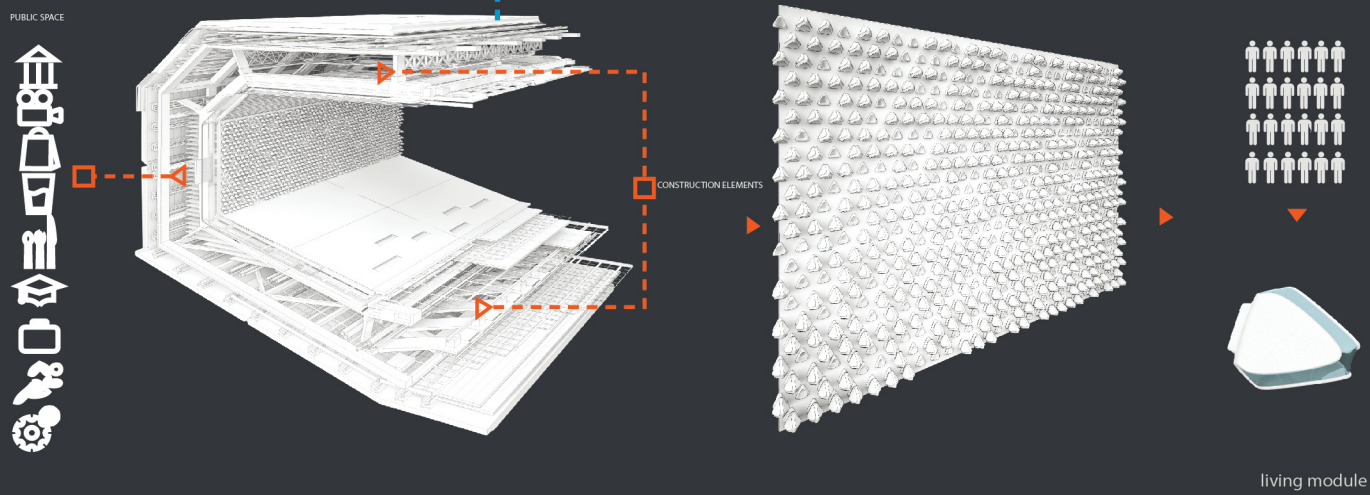
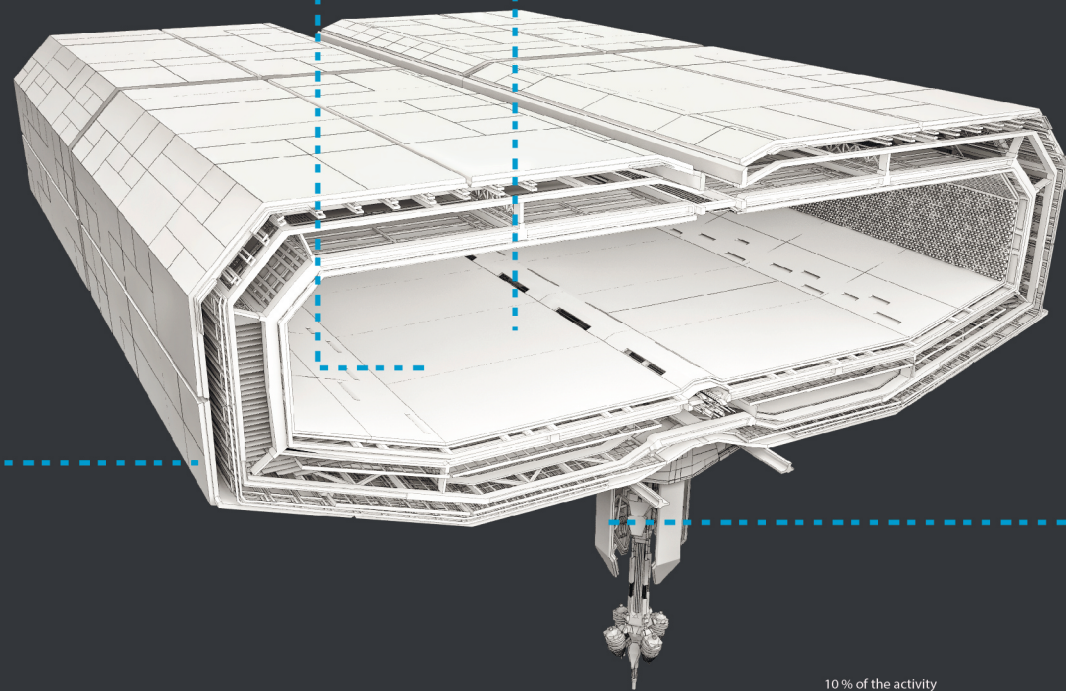
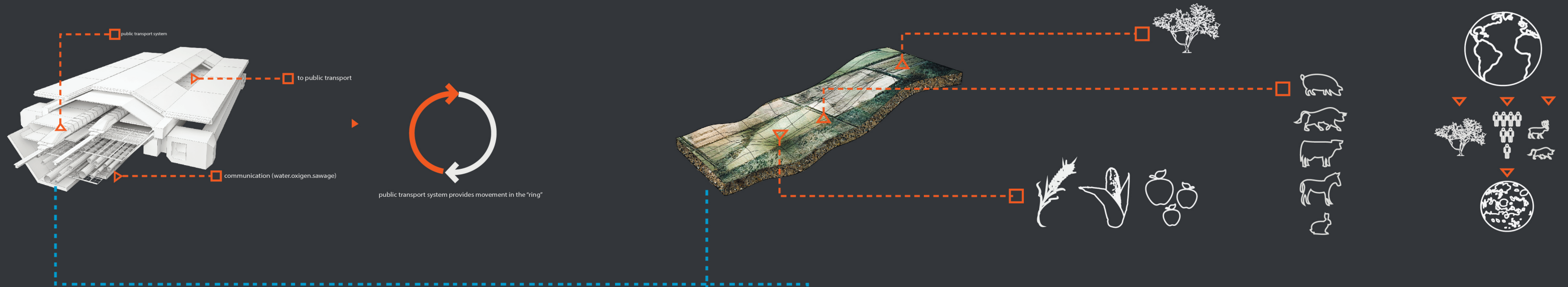
CONCEPT

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STRUCTURAL FEATURES

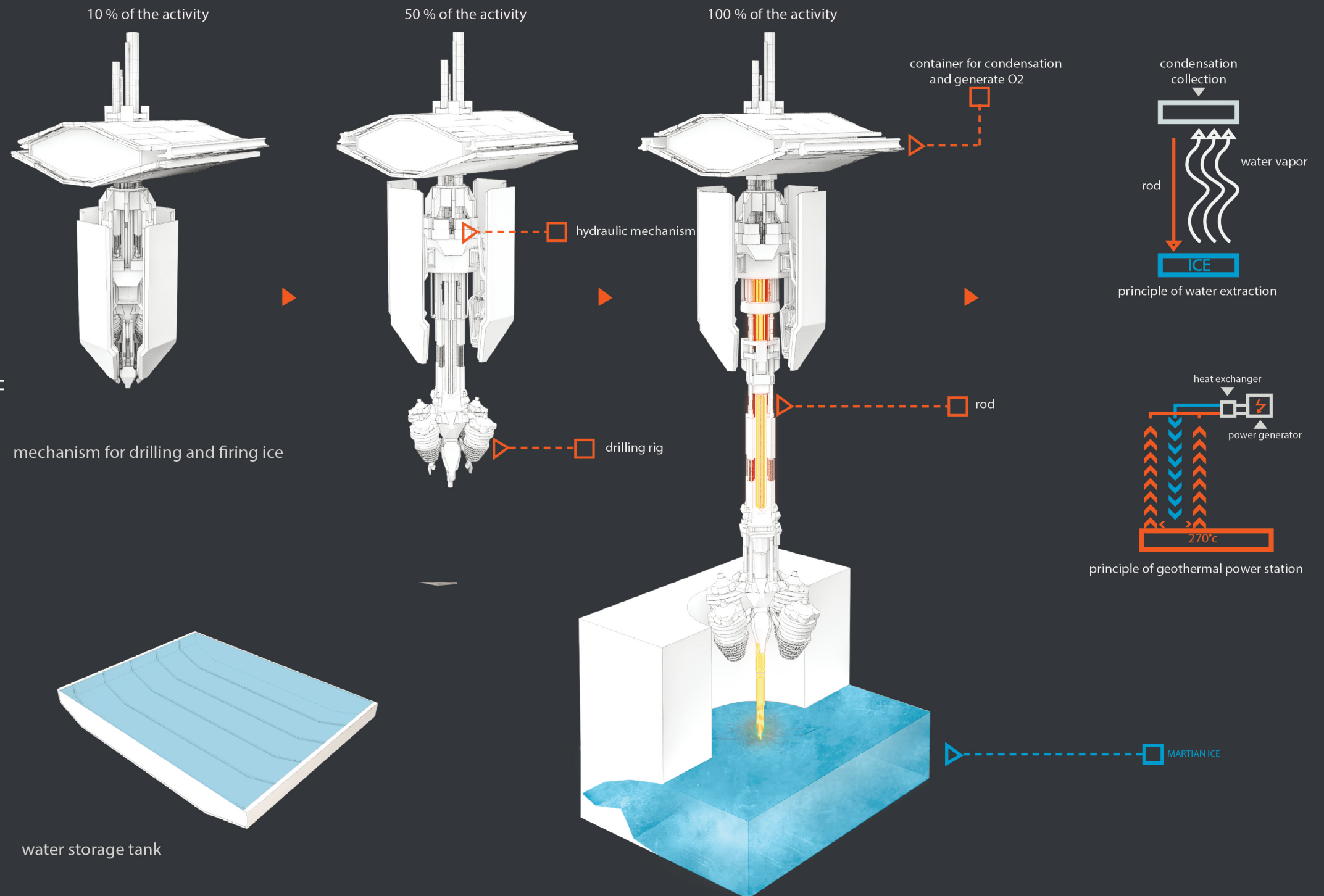
production and storage of water
 production of energy
 +
 production O₂

Drilling rig moves on rails and manufactures drilling operations in places, most favorable for this.

Drill creates a funnel into which the rod is immersed in order to insert ice and to provide further condensation into water. Decomposition of water by an electric current lead to release of oxygen

In addition to drilling and extraction of water drilling rig is capable to perform the function of energy producing (geothermal energy). This type of energy is practically inexhaustible and environmentally friendly.

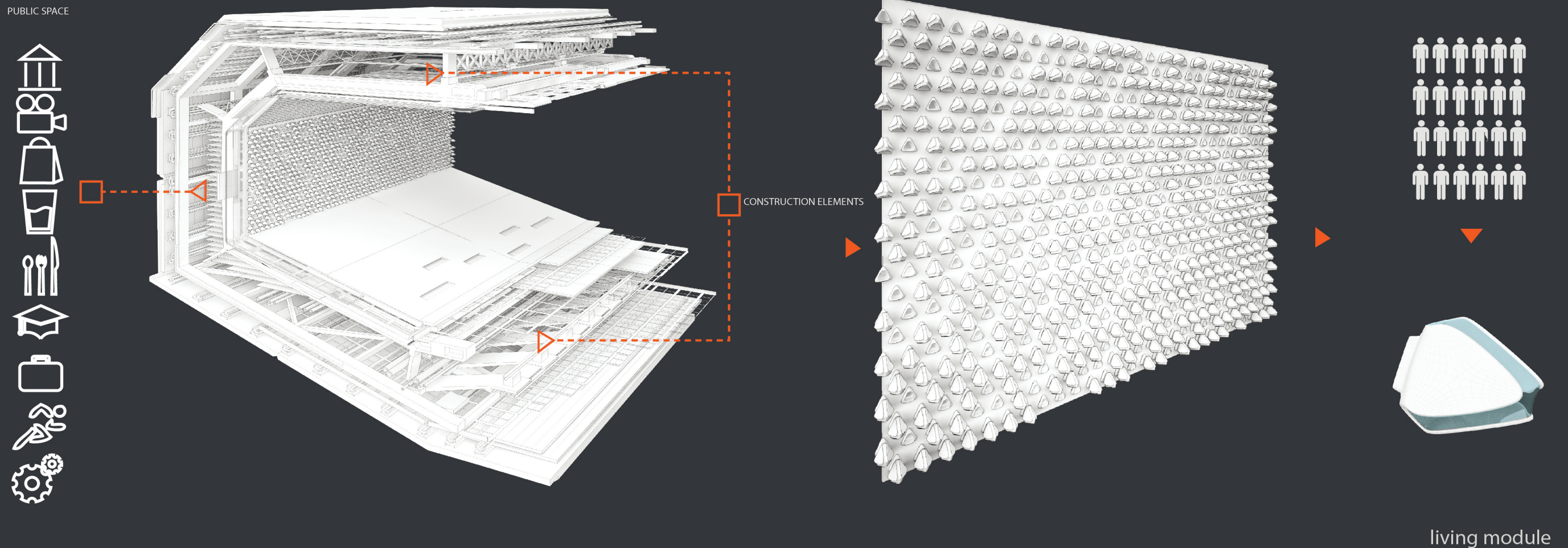
water storage tank serves as a storage and further distribution of water



structural element
includes residential units,
structural elements, public space

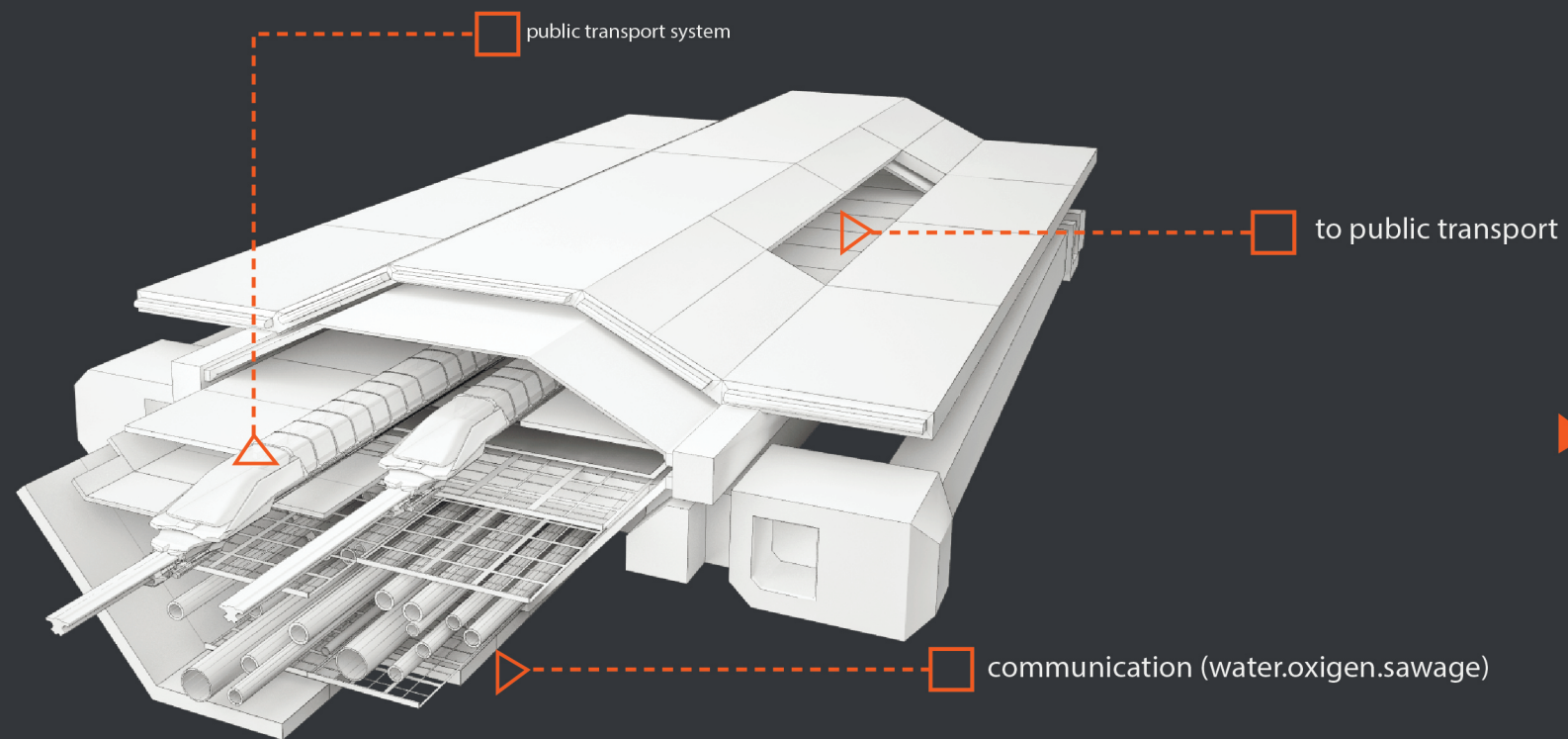
Public space includes shops, theaters, cafes,
museums, libraries, recreation space and
premises for living cells maintenance.

Living cells can accommodate up to 30 people
This is an automatically piloted aircraft
launched from Earth which serves as home.



communication System

Communications provide inhabitants of cells with all necessary Facilities For normal existence
Public transport provides a comfortable and rapid locomotion of people within the



public transport system provides movement in the "ring"

Earth space

maximally simulates conventional
natural conditions of Earth.

Functions:

the provision of Food+second
production of O₂ by plants
sanctuary for Flora and Fauna of the earth
For protection of rare species



the process of building a ring



10 %

2023



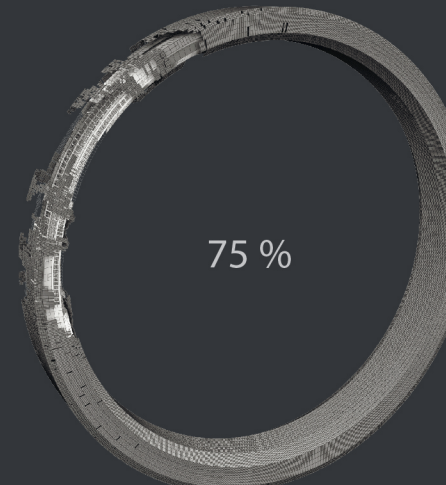
25 %

2088



50 %

2163



75 %

2238



100 %

2313

