



ALL LIFE



מכון
דוידסון
הדעות החינוכיות
של מכון
דוידסון

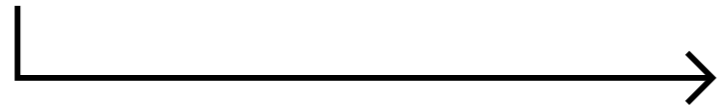
מכון
דוידסון
הדעות החינוכיות
של מכון
דוידסון



Clere Garden
of Science
حديقة العلوم
على اسم كلور

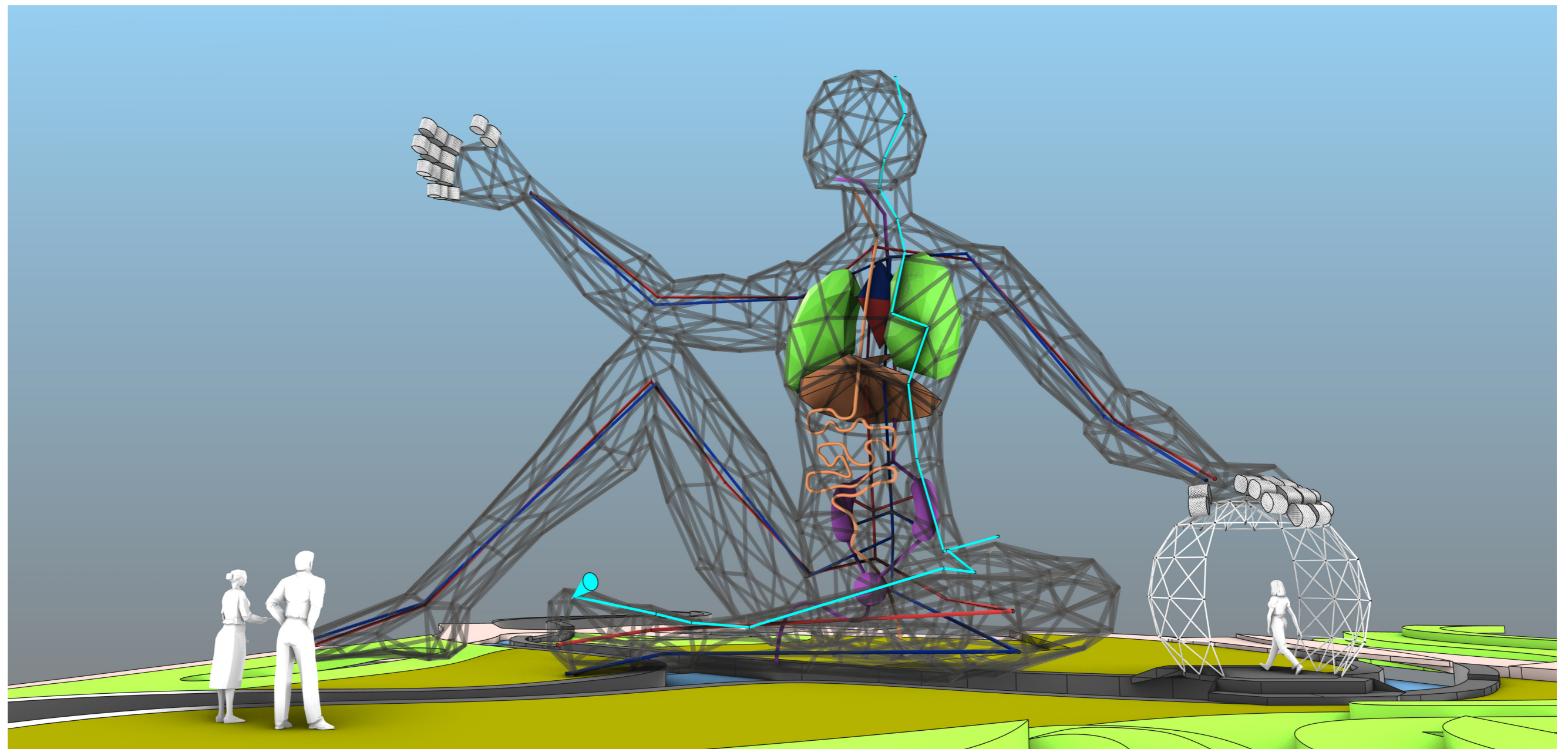
גן
המדע

OVERVIEW

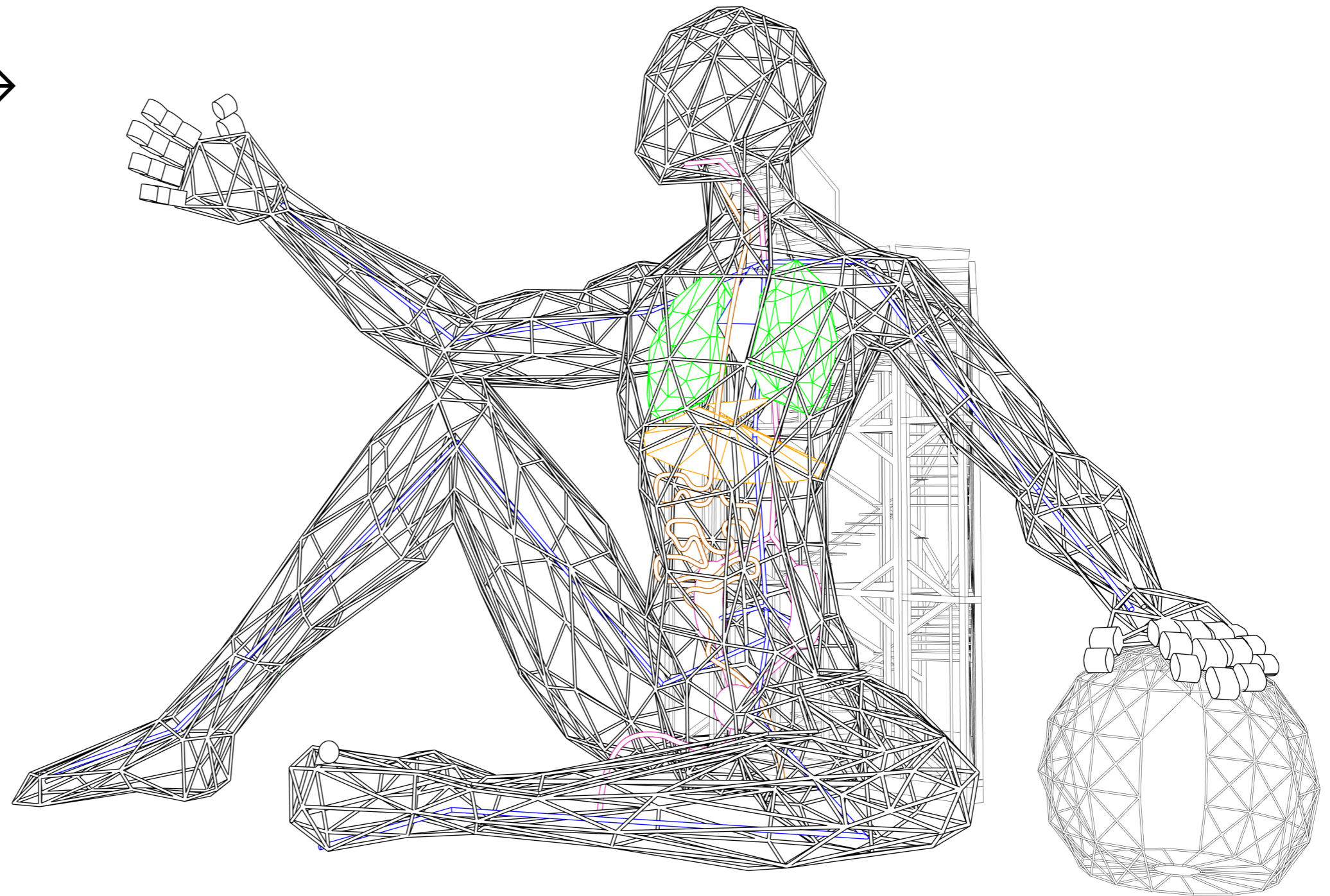
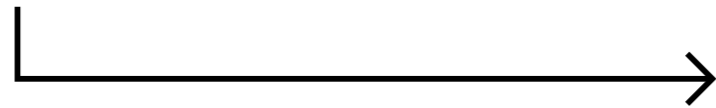


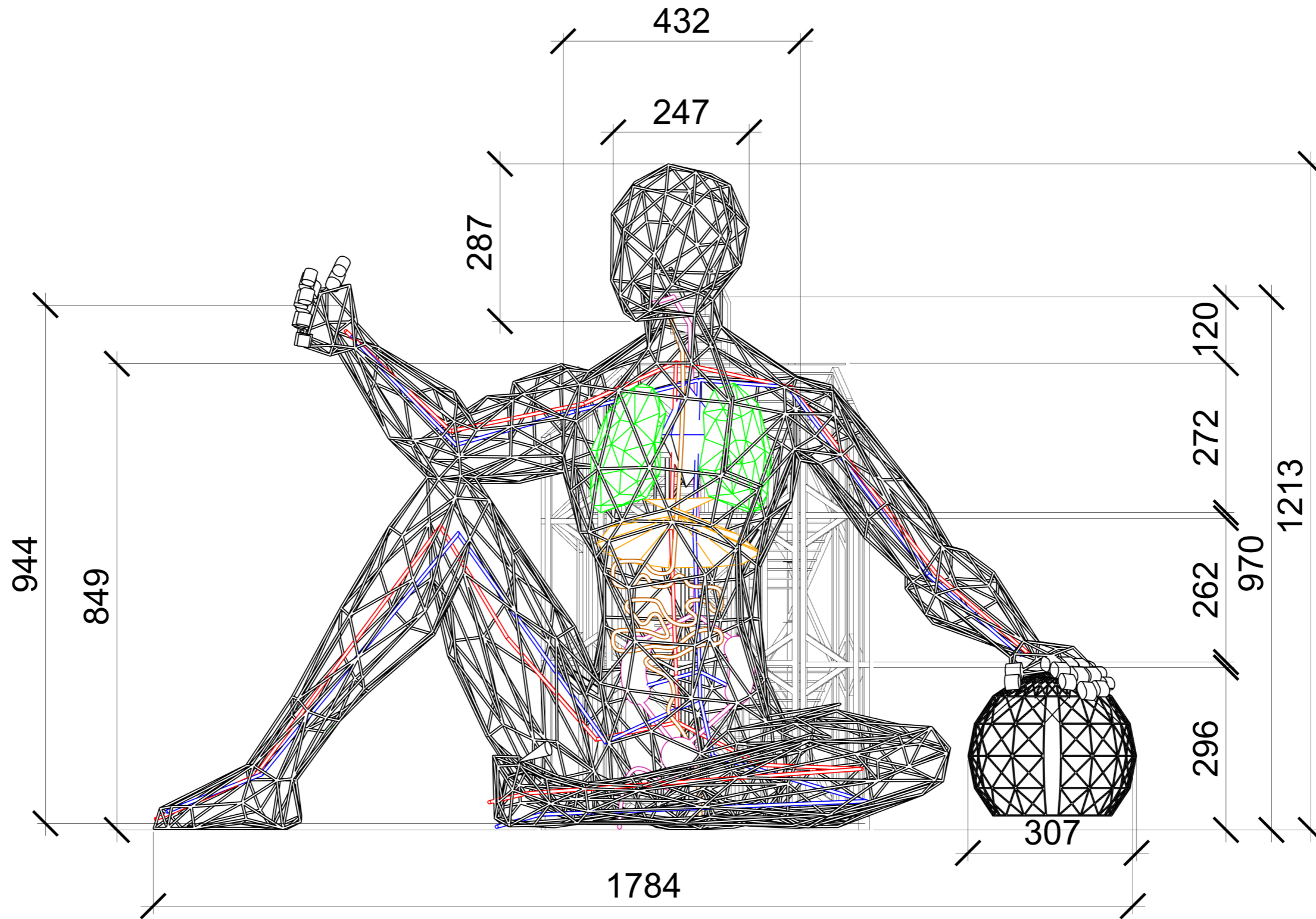
The All Life complex features an inside look of living organisms; in its center stands a 12 meters high human body sculpture. The sculpture exhibits organs such as lungs, diaphragm, digestive system, kidneys, heart, and eyes. The organs are mechanically designed in a schematic manner.

The sculpture's back is a tower with three levels and a staircase that allows visitors to access, interact with the various features and exhibits.

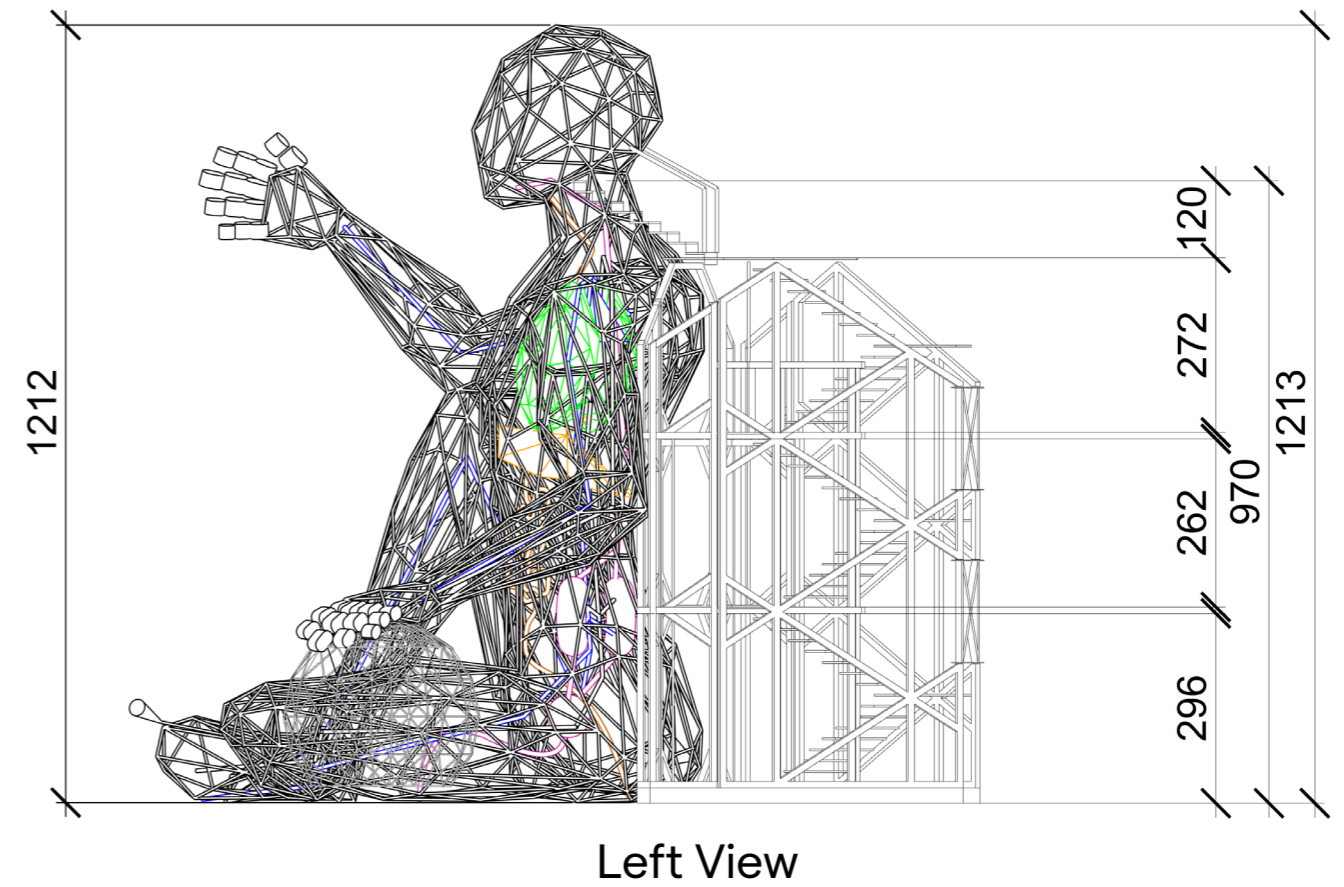
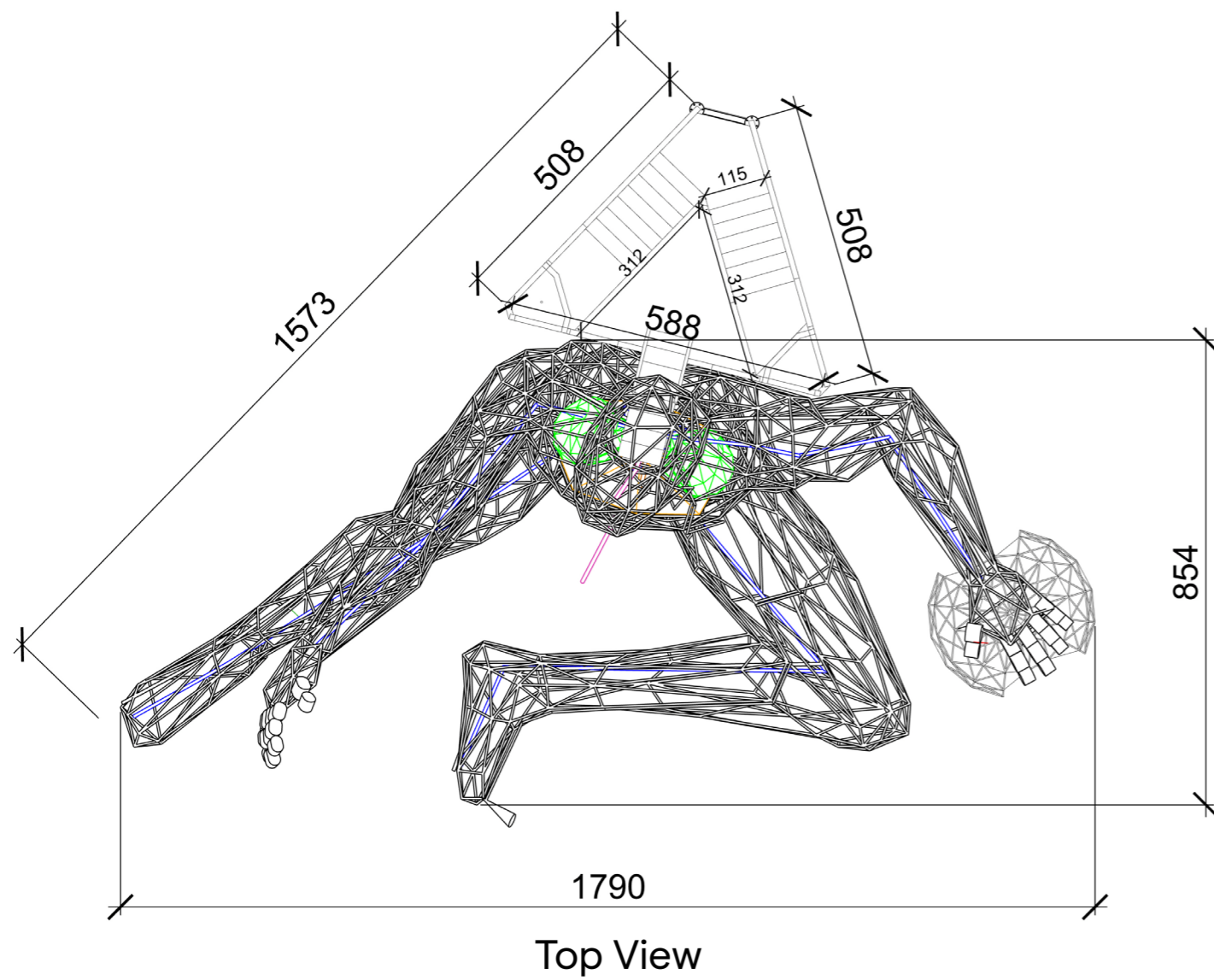


TECHNICAL DRAWINGS

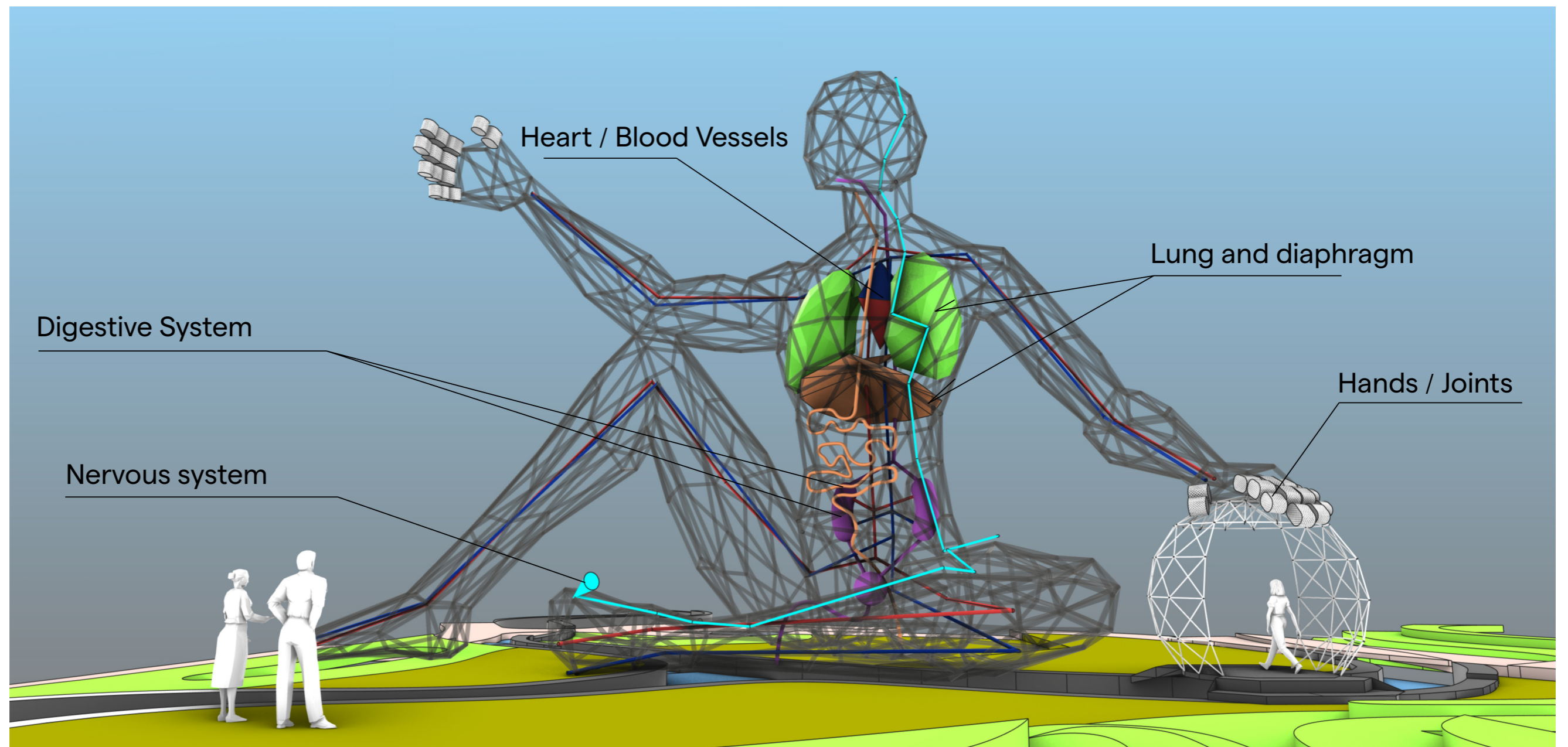




Front View



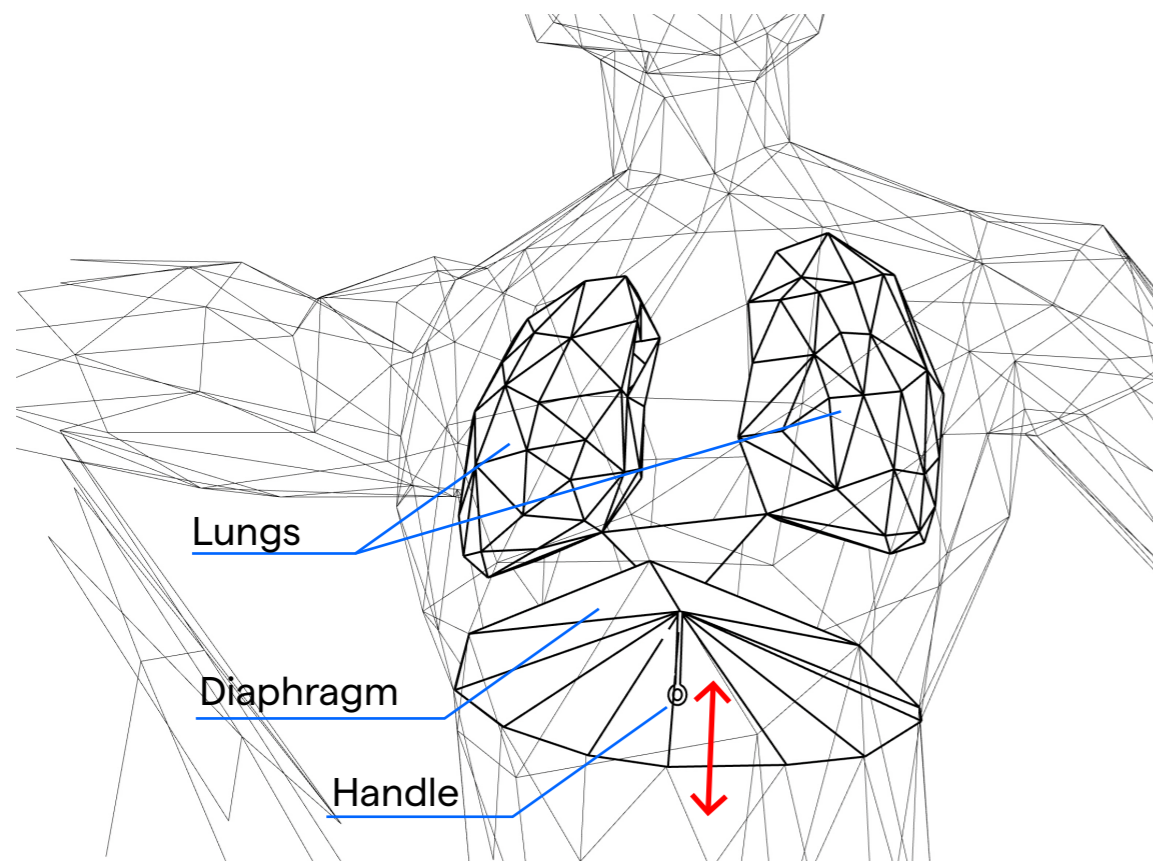
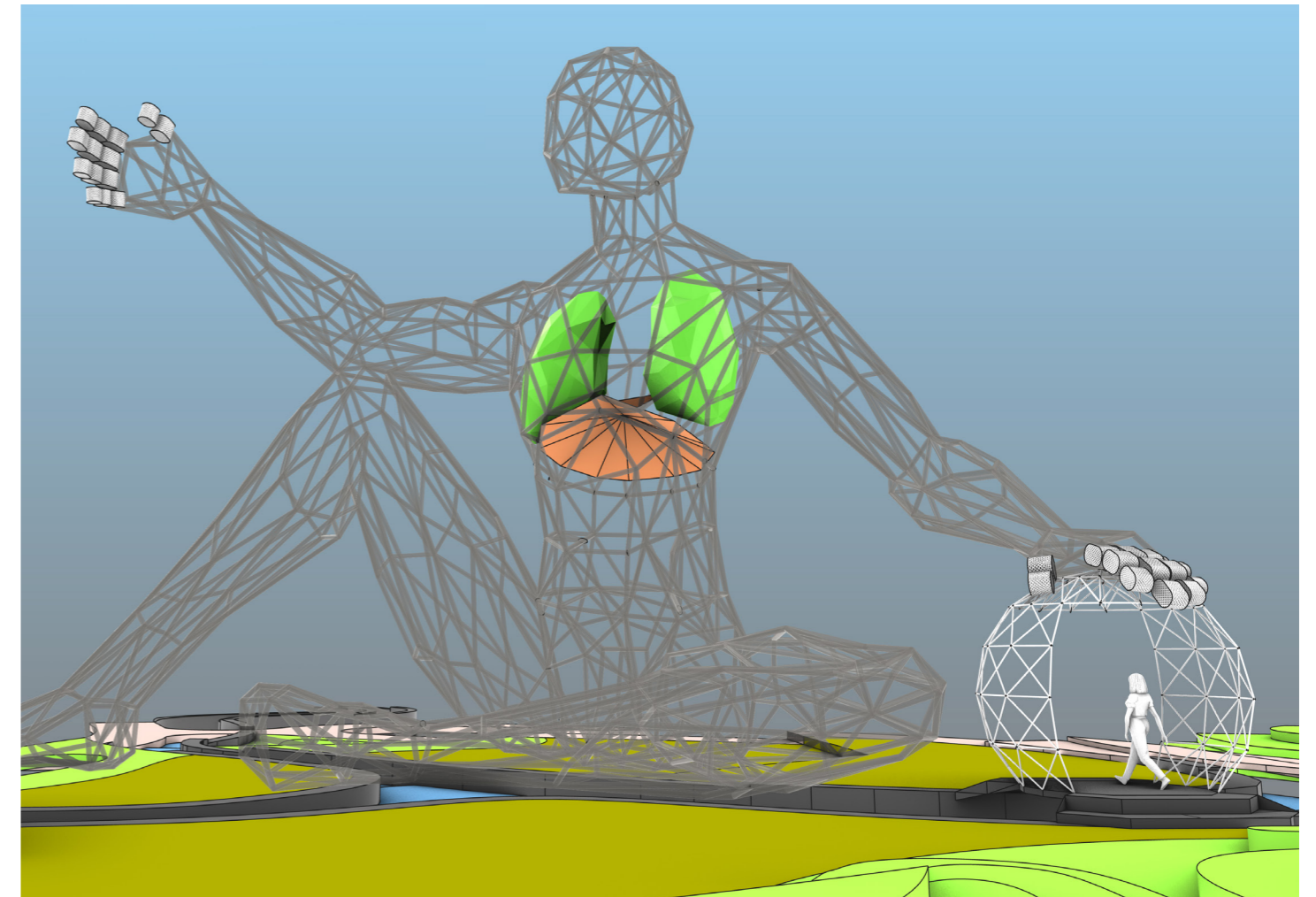
ORGAN SYSTEMS EXHIBITS



Lung and diaphragmatic system

→ The stairway behind the sculpture allows visitors access the lung. By pulling a net/string attached to the diaphragm and lungs, visitors trigger an action that simulates a breath.

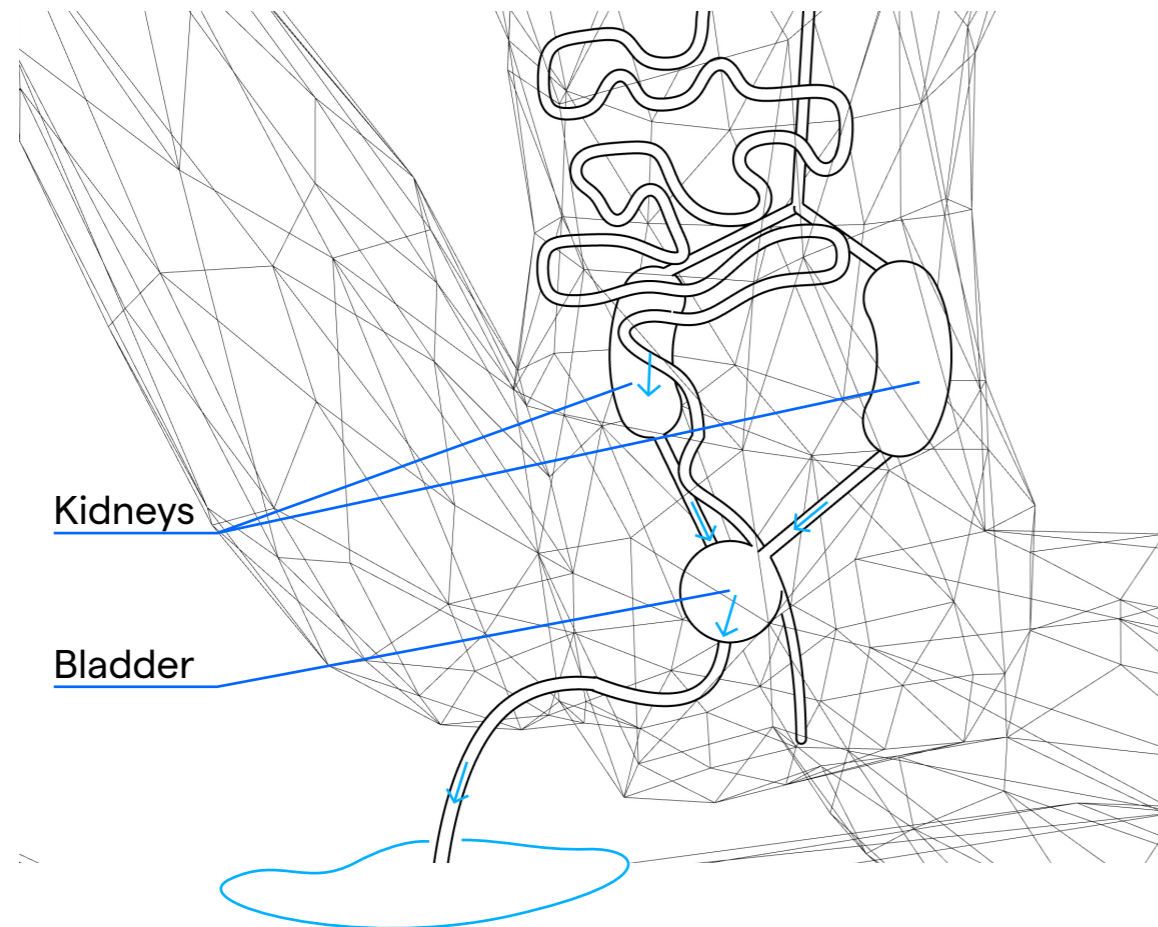
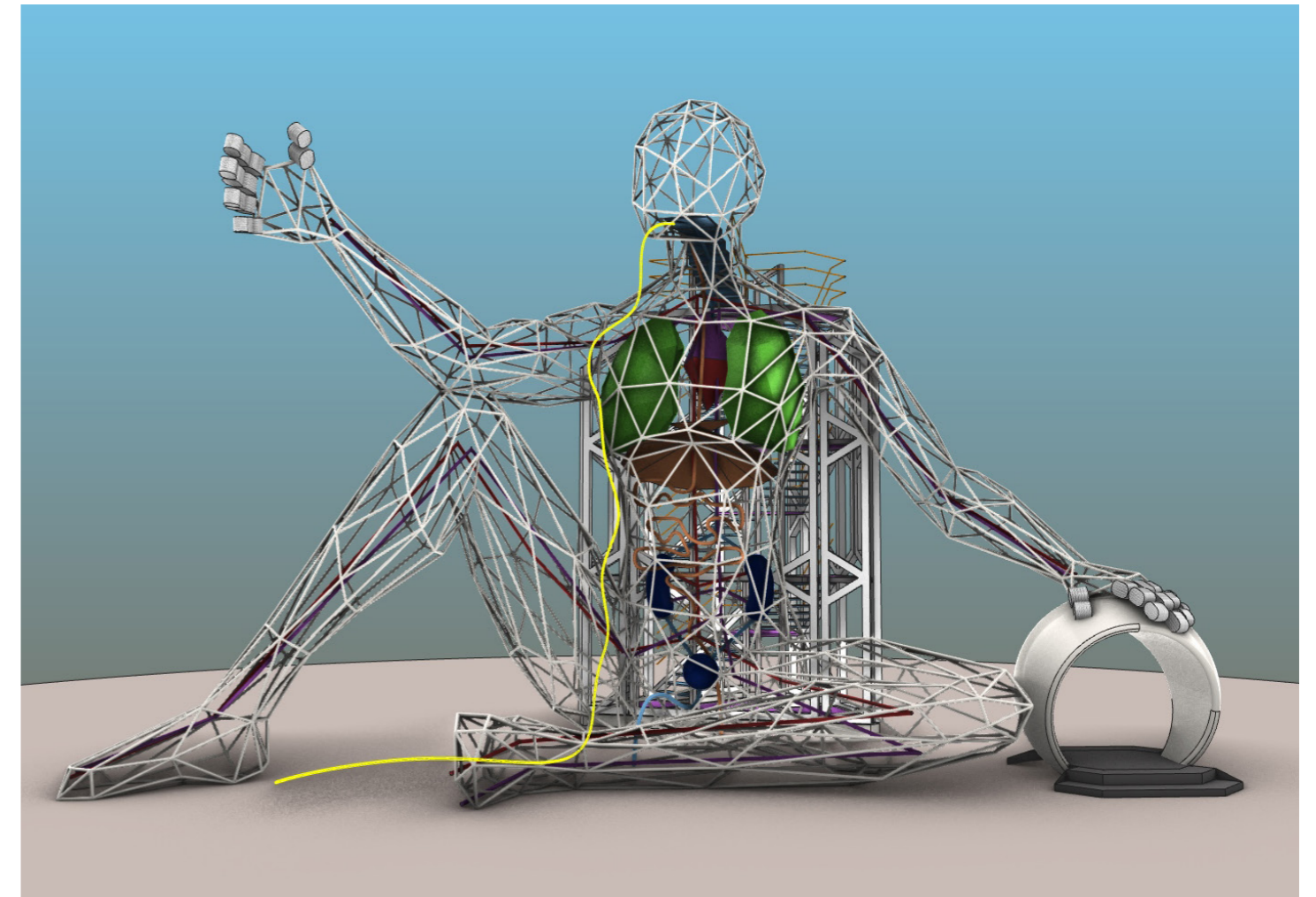
This action of the net/strings is mechanical; the lungs expand and contract in correlation with the user's behaviour.



Digestive System

→ An exhibit simulates a partial operation of the digestive system (drinking only). The human body sculpture is drinking water using a straw coming from the canal, using a manual pump, the visitor's shirts water to the sculpture's mouth.

The water flows through a transparent curled tube from the "mouth" to the "kidneys" and from there to the bladder that eventually drains to the canal.

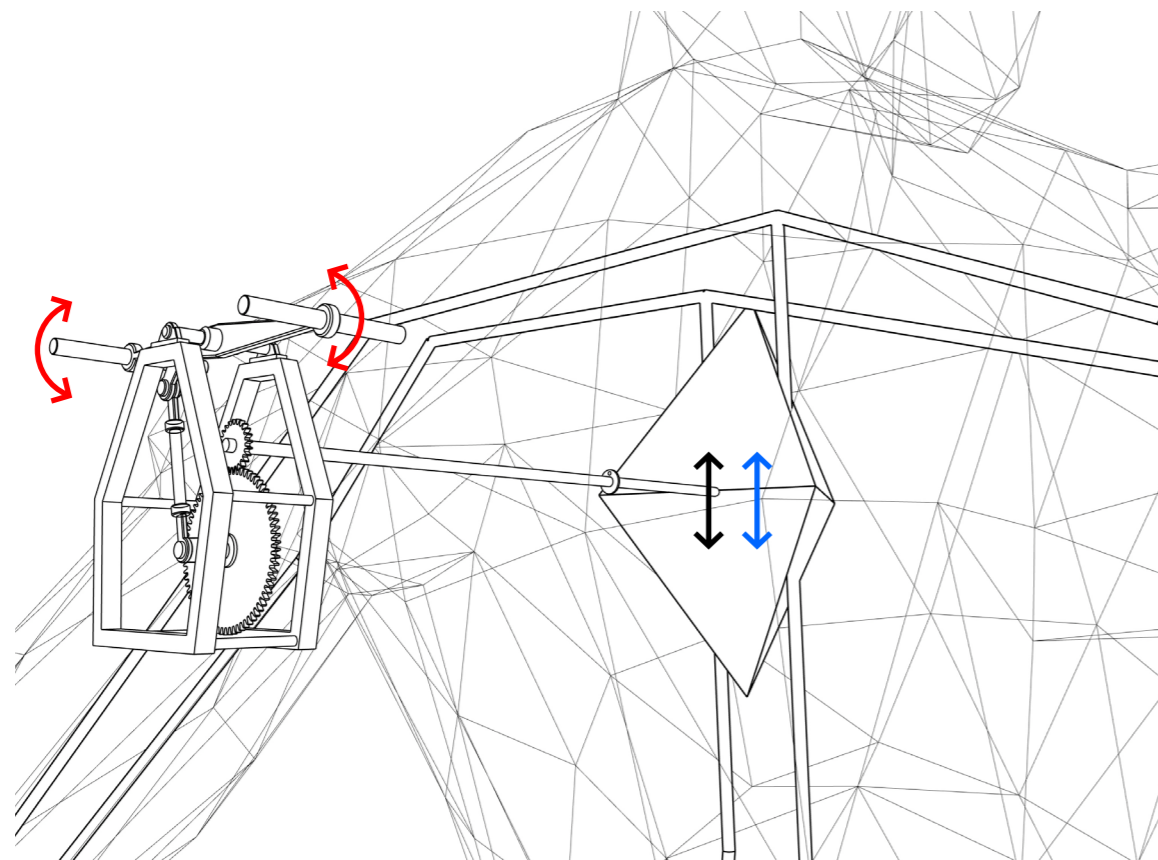
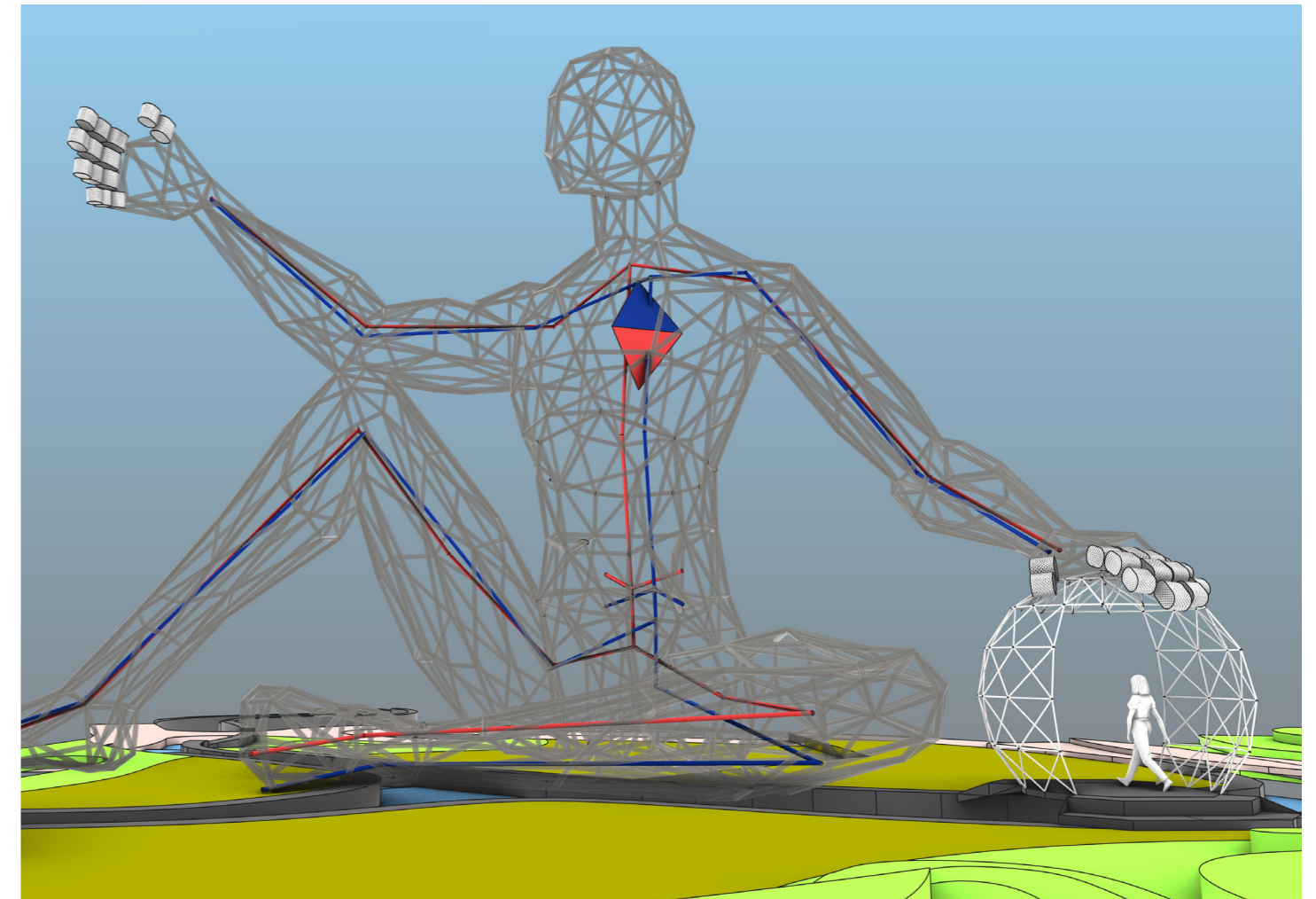


Heart / Blood Vessels

→ This exhibit simulates the fluids in the human body.

Two visitors hold a pump from the side; the movement of the pump causes blue and red fluids to travel in the blood vessels.

The manual pump is located on the second platform in the back of the human body (near the heart).



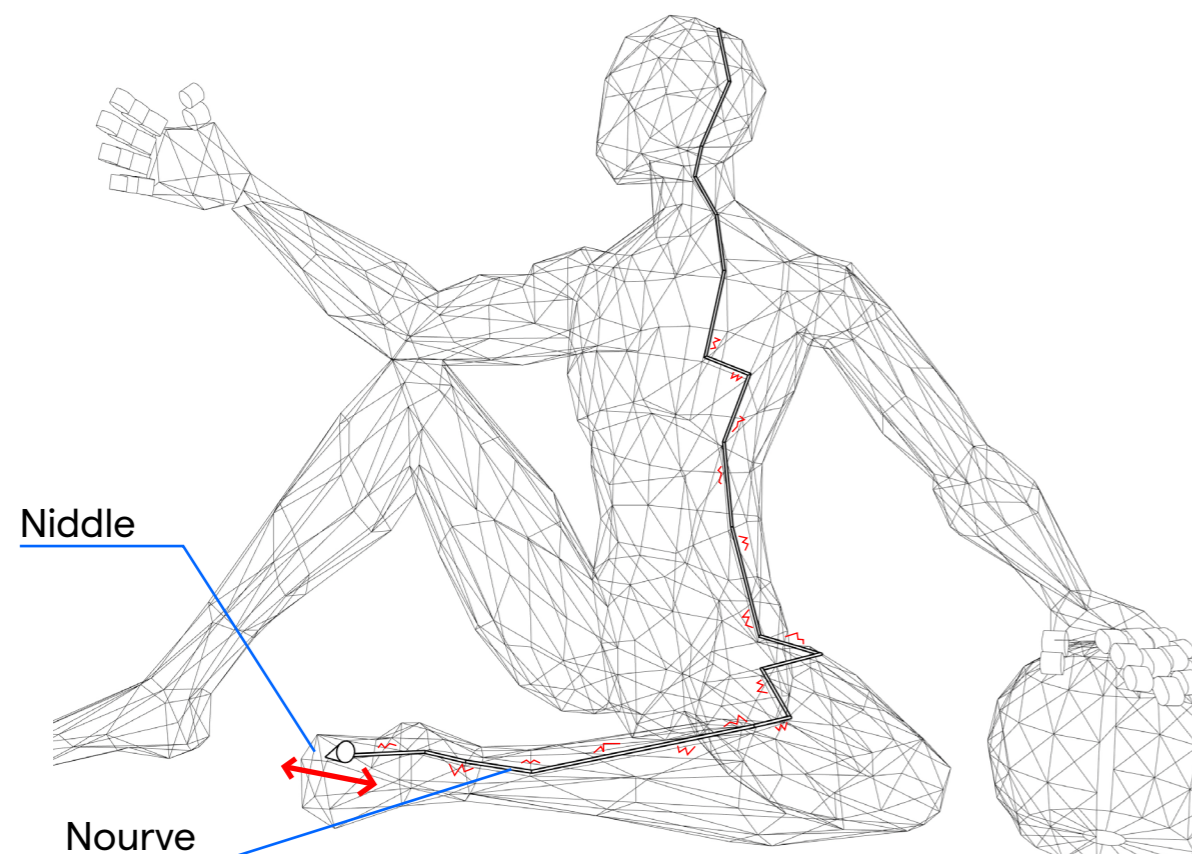
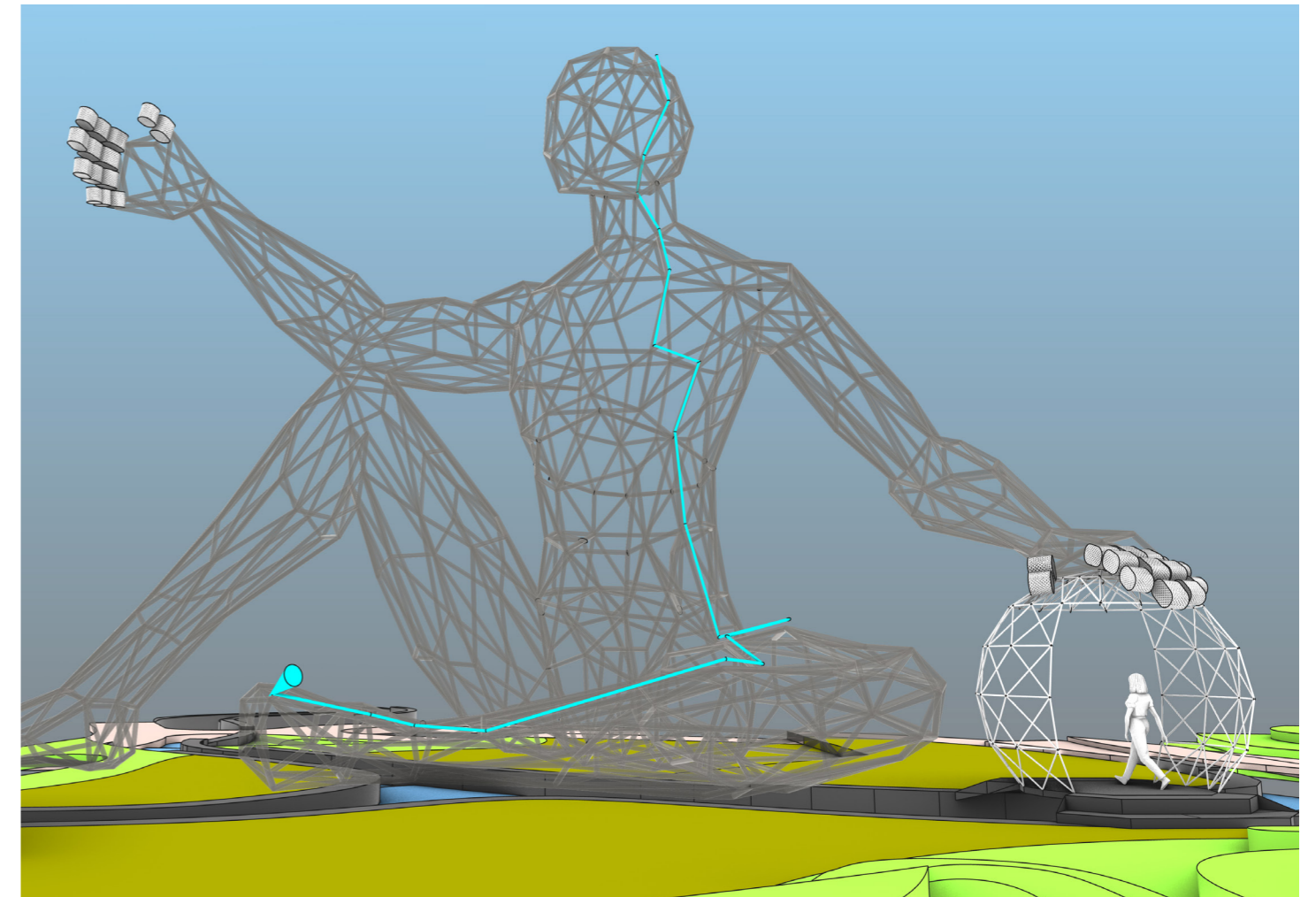
Nervous system

→ This exhibit simulates a nerve response in the human body.

A button located at the foot of the sculpture simulates a stab/touch of a nerve. The action activates servo motors that initiate a chain reaction of different ropes that connect other points in the body.

The system also incorporates an indication of the movement using sounds and lights.

At the top of the statue, a speaker is installed.

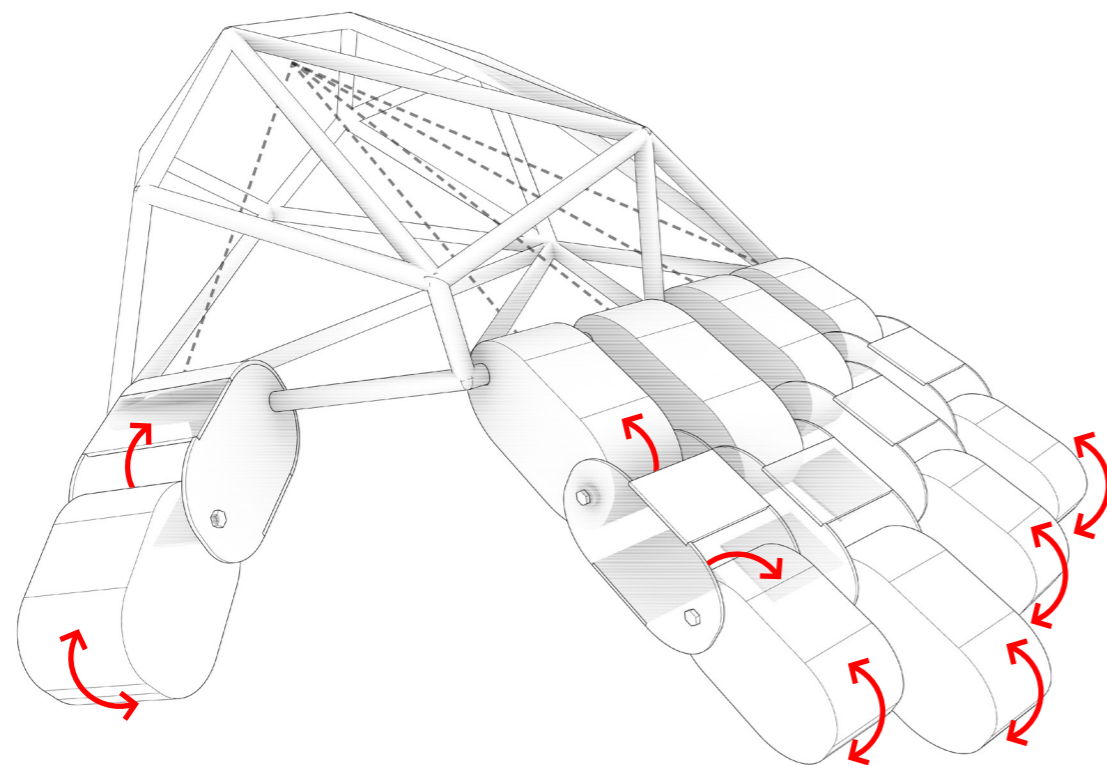
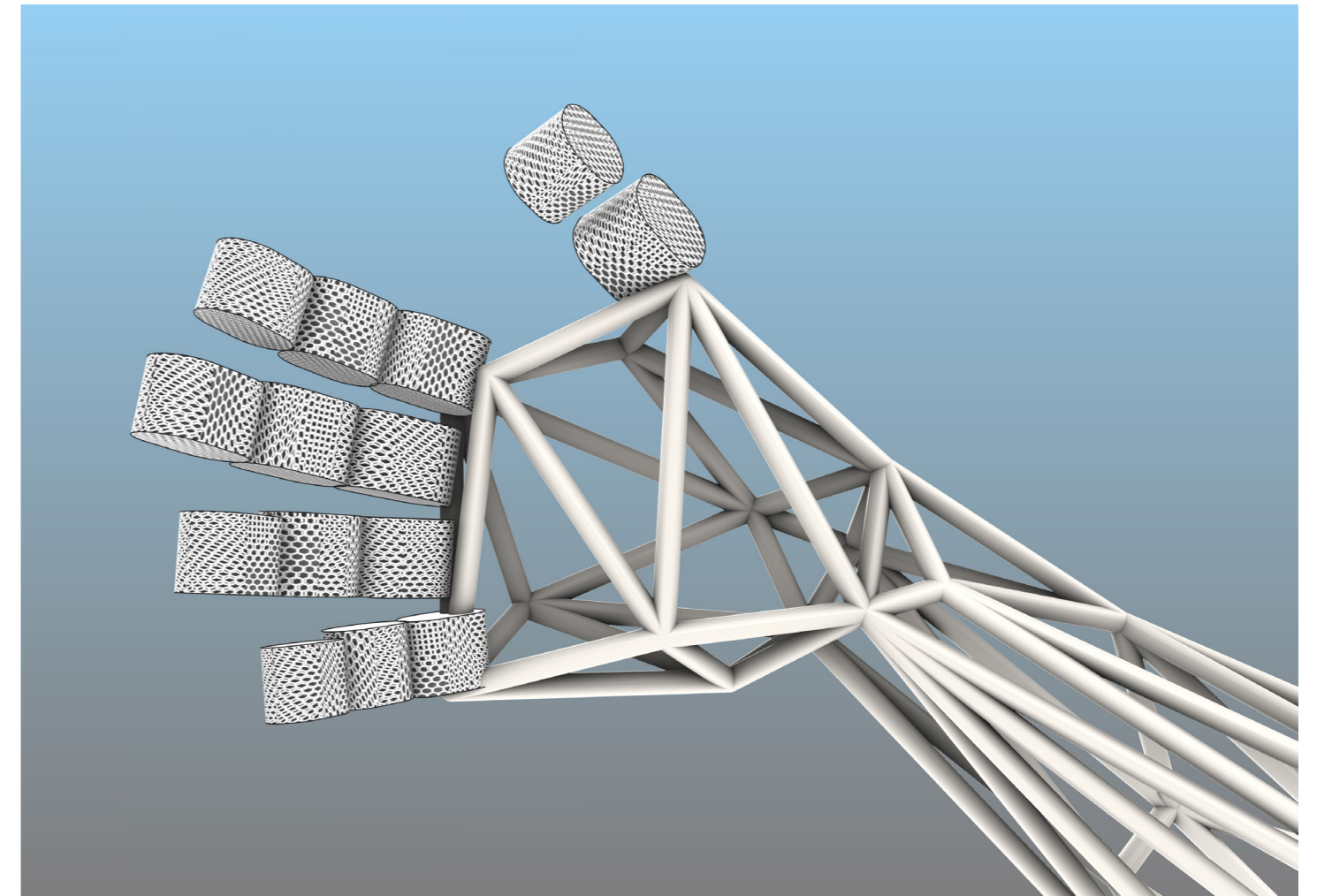


Hands / Joints

→ By pulling a string/rope behind the sculpture, visitors can affect the fingers movement of the sculpture's hands.

Pulling different ropes will influence other fingers; releasing them will turn the hands to their default position.

The ropes action is mechanical.

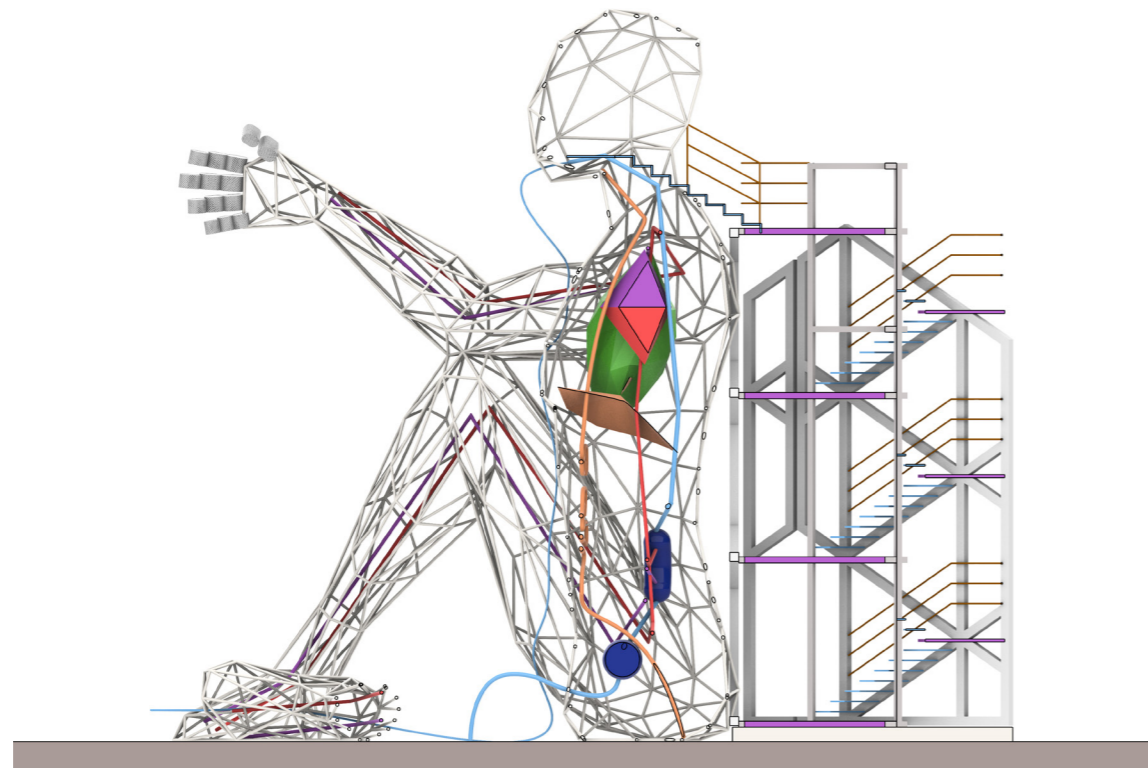
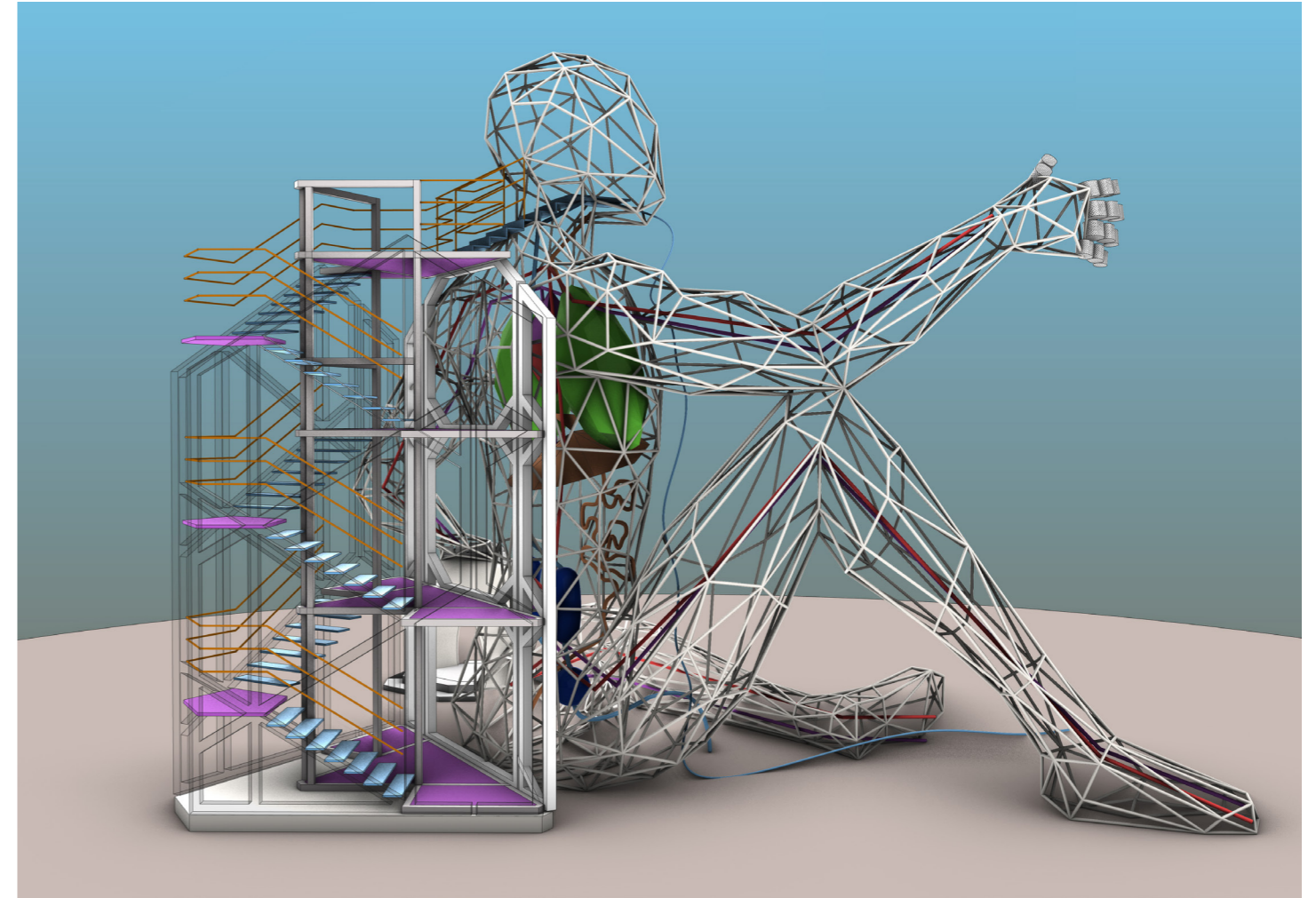


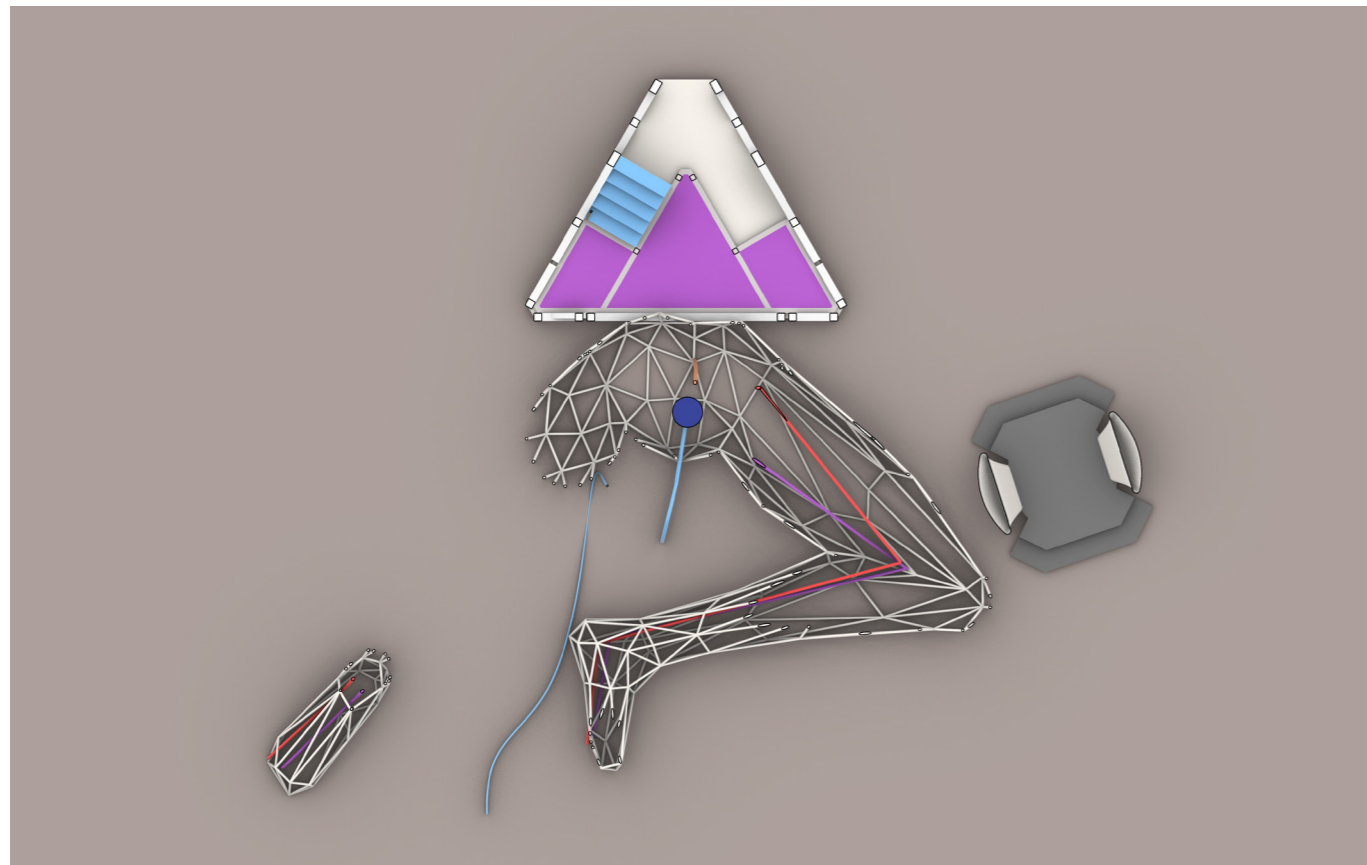
Back Tower

→ The rear tower is responsible for the sculpture structure support and allows the visitors to access the internal organs exhibits.

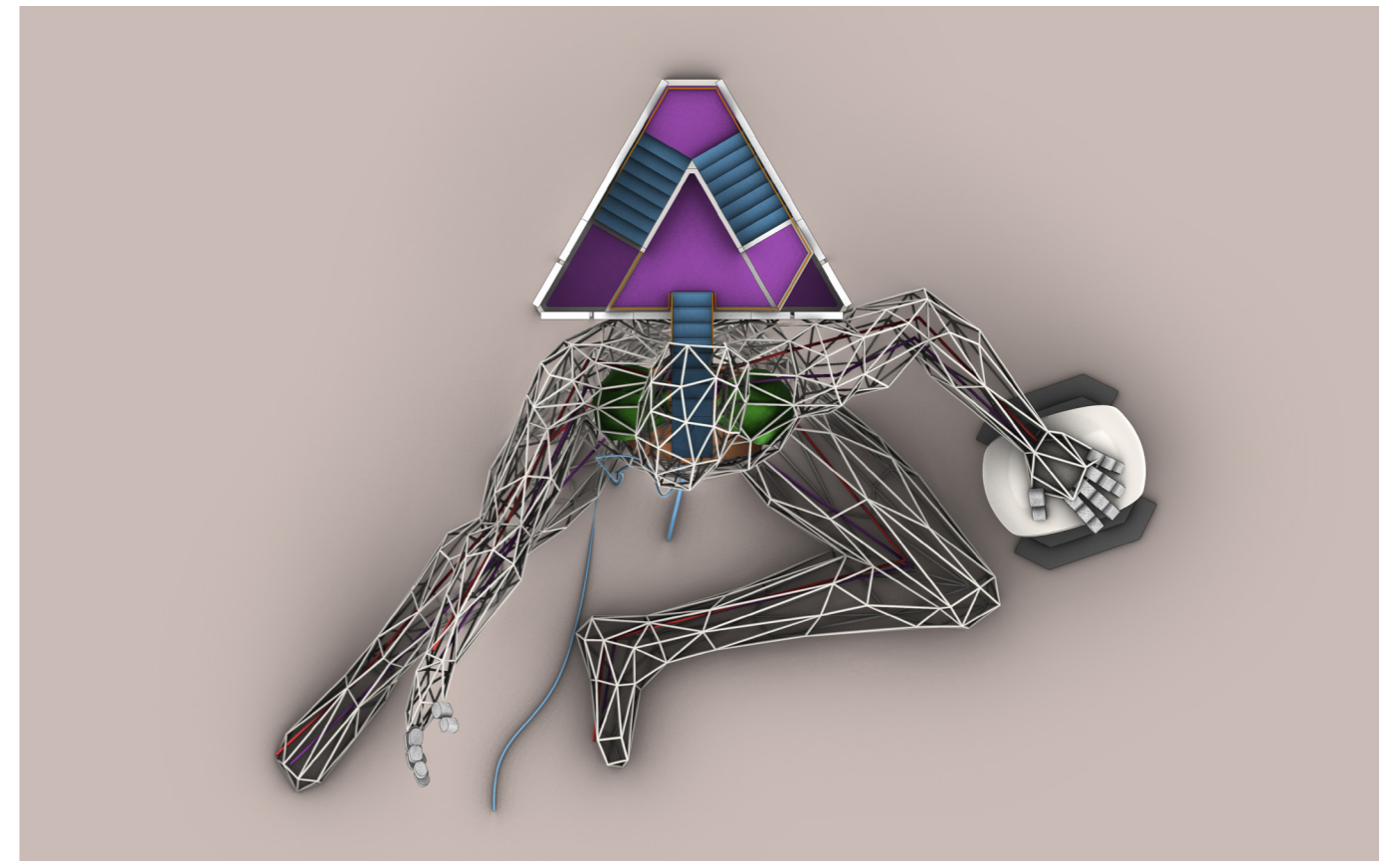
The ground floor provides access to the bladder exhibit.
The second floor provides access to a diaphragm and kidneys exhibit.
The third floor provides access to the heart and lungs exhibits.

Access to the head of the sculpture is on the top floor.

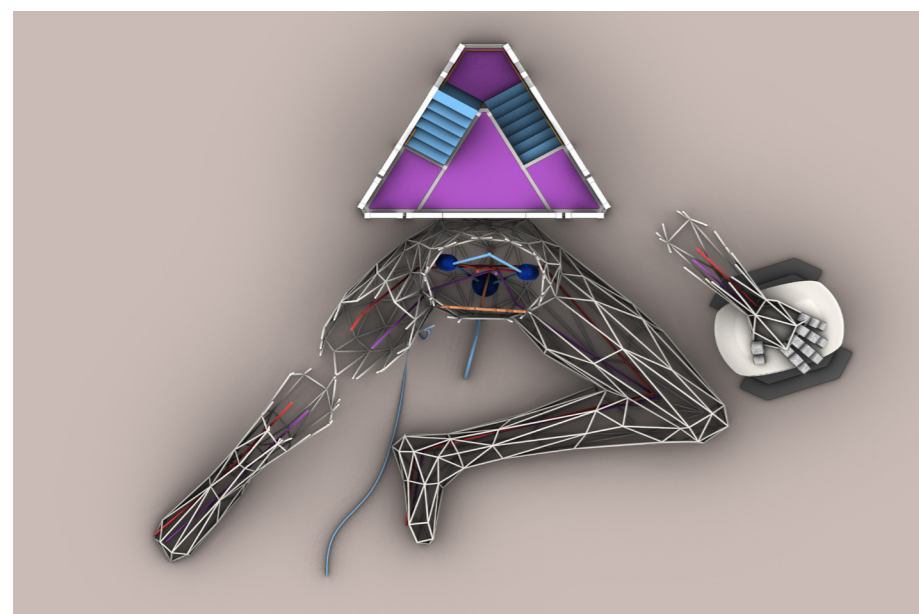




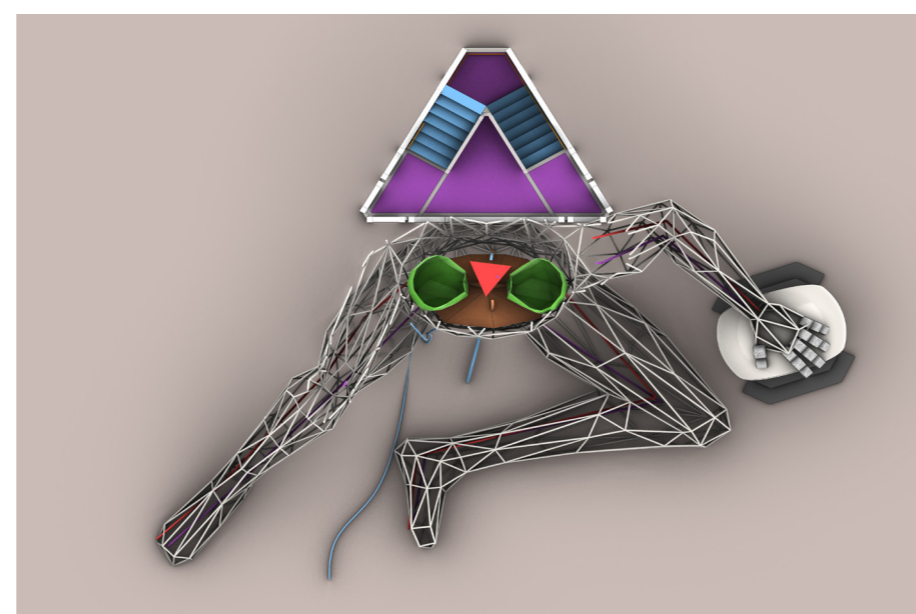
Ground Floor



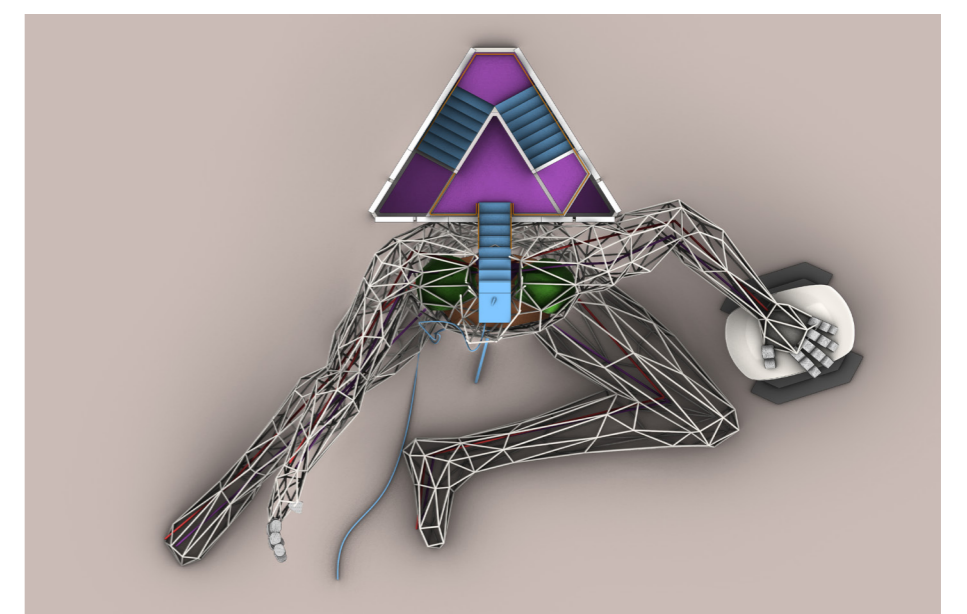
Top View



First Floor



Second Floor



Third Floor

