THE DAYS OF THE PIONEERS ARE NOT IN THE PAST

(EDLER OAKS)

SPACE EXEMPLAR IS A PROPOSAL TO MAKE REAL THE DREAM OF INHABITING THE MOON. RIDING ON THE WINGS OF NASA'S ARTEMIS, THE GATEWAY WILL OPEN TO THE MAKING OF 3D PRINTING PROTOTYPE SHELTERS ON THE MOON, INSPIRED BY THE HUMBLE SEA SHELL AND ANTIQUECAVE THIS HABITAT WILL SUCCESSFUL ONLY USE THE MOONS RESOURCES TO CREATE A PROTECTIVE, SELF-SUSTAINED, LIVEABLE, HAPPY AND UNIQUE ENVIRONMENT.

PROTOTYPE LUNAR HABITATION



THE LUNAR REGOLITH IS A UNIQUE, COMPREHENSIVE ABUN-DANT RESOURCE ESPECIALLY SUITED TO ITS NATIVE ENVI-RONMENT. COMPOSED OF THE MOST VERSATILE MATERIALS; METALS LIKE IRON, ALUMINIUM, TITANIUM; MINERALS LIKE SILICA AND MOST IMPORTANTLY LIFE SUSTAINING OXYGEN, IT IS TRULY COMPREHENSIVE SOURCE FOR CONSTRUCTION! OUT OF IT CAN BE DERIVED REGOLITH CONCRETE, ALUMINI-UM GLASS, METAL ALLOYS AND CARBON FIBRES. PIONEER PROPOSES TO USE THE SHARP, STEADY AND CONSISTENT SUNLIGHT THROUGH A EASY, TIME PROVEN, HEAT GENERAT-ING MECHANISM OF FRESNEL LENS TO DERIVE THESE VARI-OUS ELEMENTS FROM THE REGOLITH. ANOTHER KEY RE-SOURCE IS LUNAR ICE FOUND ON THE MOON SURFACE AS A THIN MIST AT SOME PLACES AND AT OTHER LOCATIONS BURIED UNDERGROUND, IT WILL FORM A SUSTAINED SOURCE FOR WATER, OXYGEN AND FUEL (HYDROGEN). HENCE THE PROJECT IS STRATEGICALLY LOCATED NEAR THE SHACKLE. TON CRATER AT THE LUNAR SOUTH POLE WHERE ABUNDANT SOURCES OF BOTH PERPETUAL SUNLIGHT AND LUNAR ICE ARE AVAILABLE.

PAYLOAD SCHEME TARGETED BY 2024 (FOLLOWING NASA ARTEMIS & FALCON)





1 FULLY FUELLED LUNAR EXCRUSION

. VEHICLE

COURTESY NASA: HTTPS://WWW.NASA.GOV/-PRESS-RELEASE/NASA-TECHNOLOGY-MIS-SIONS-LAUNCH-ON-SPACEX-FALCON-HEAVY

SOLAR PANEL ARRAY

HIGH RATE DATA
COMMUNICATION GEAR

MICROWAVE POWER
BEAMING SET

ELECTROLIS/ REFRI-GIRATION UNIT

CREW VEHICLES

TELEOPERATED ROBOTIC ROVERS

3D PRINTER MECHANISM (INCLUDED)

SPARE SPACE SUITS

TEMPORARY .

HABITATION MODULE

FOOD

SCIENTIFIC EQUIPMENT

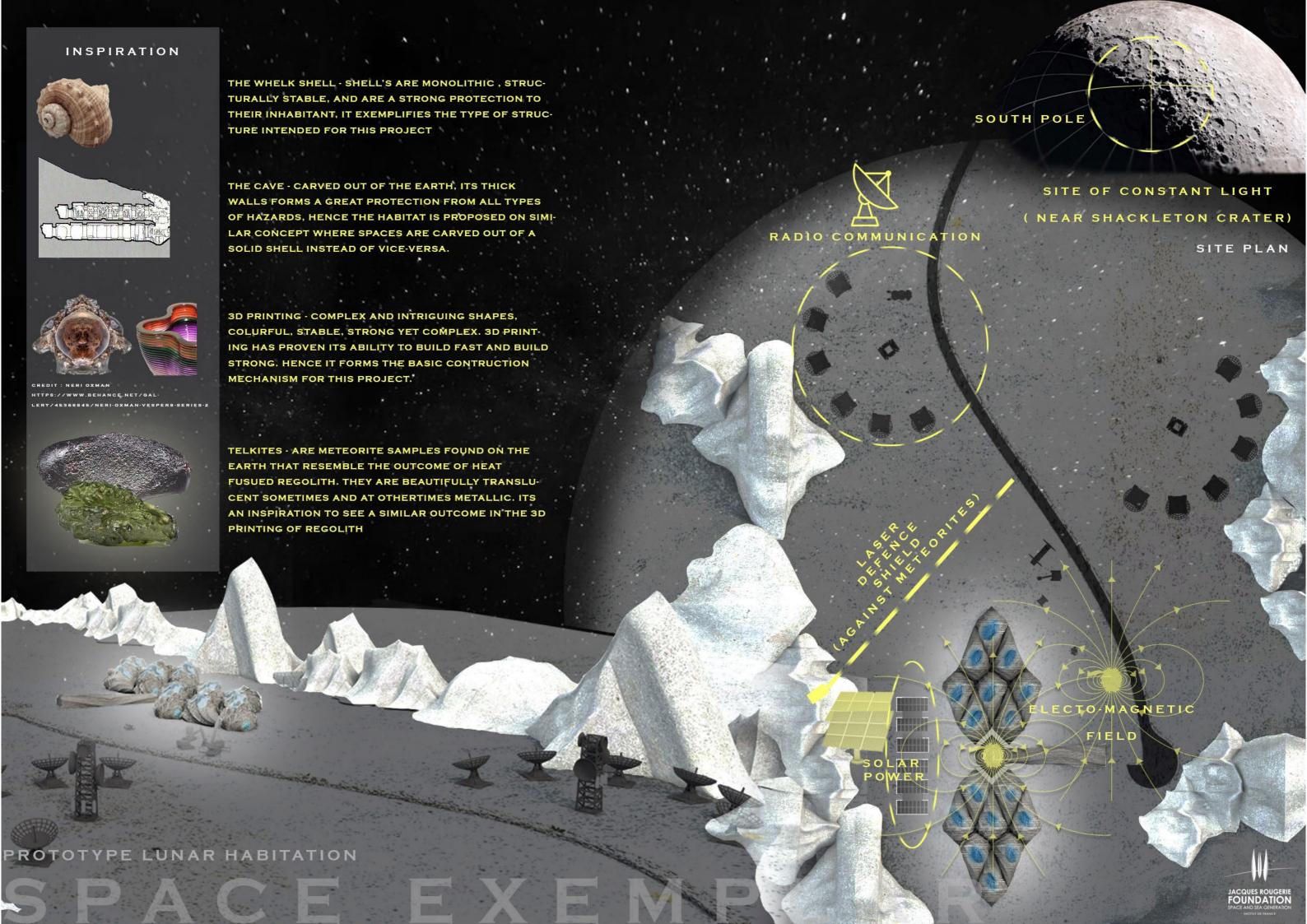
TOOLS AND OTHER SUPPLIES

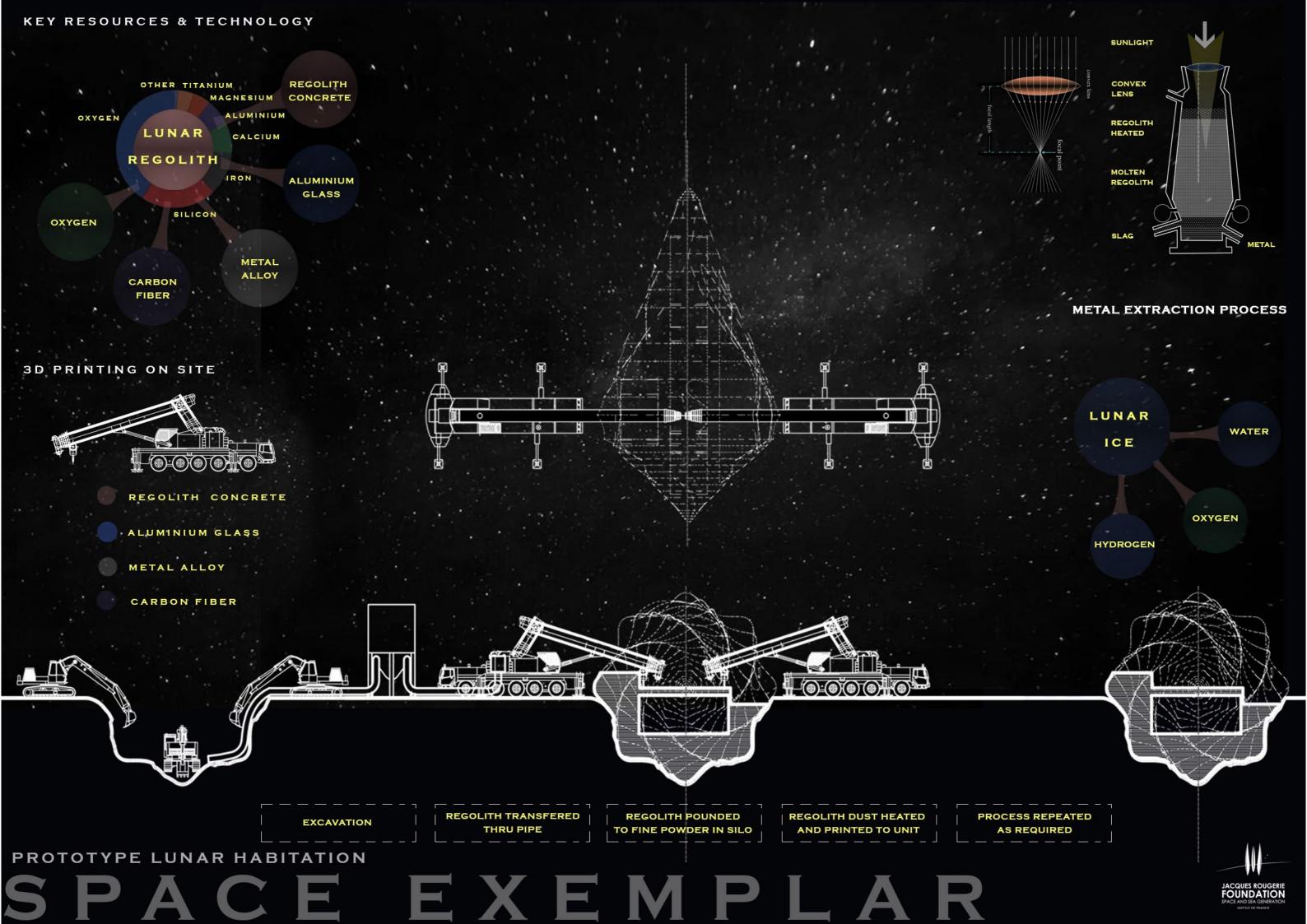
CONSTRUCTION
EQUIPMENT(INCLUDED)

PROPOSED CONSTRUCTION BEGINS IN LINE WITH NASA'S FALCON TIME-FRAME. CONSTRUCTION PER UNIT EXPECTED AT 1 - 2 MONTHS PER UNIT.

PROTOTYPE LUNAR HABITATION

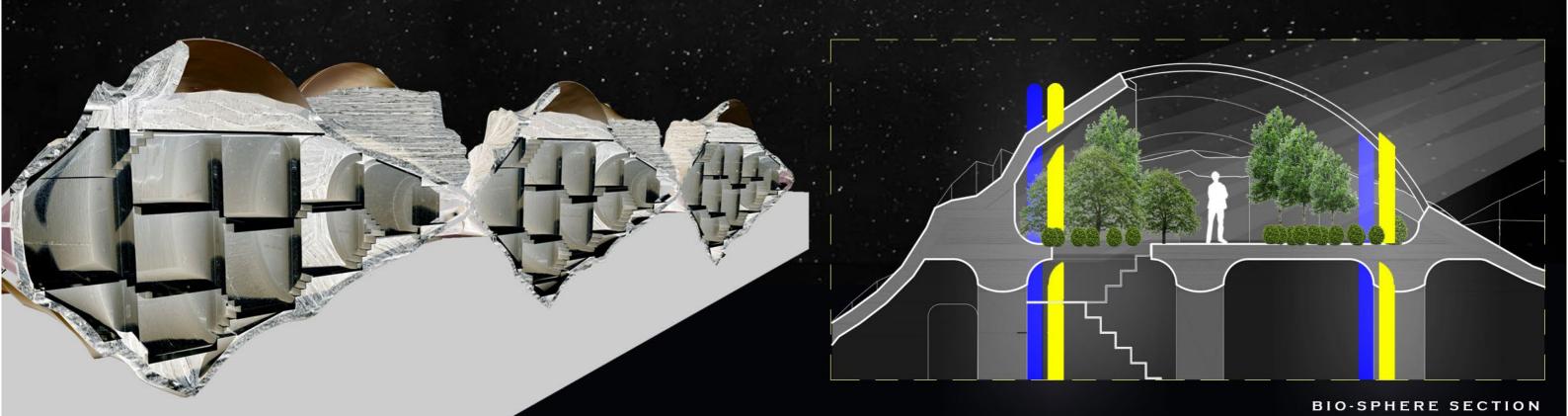












ISO SECTION

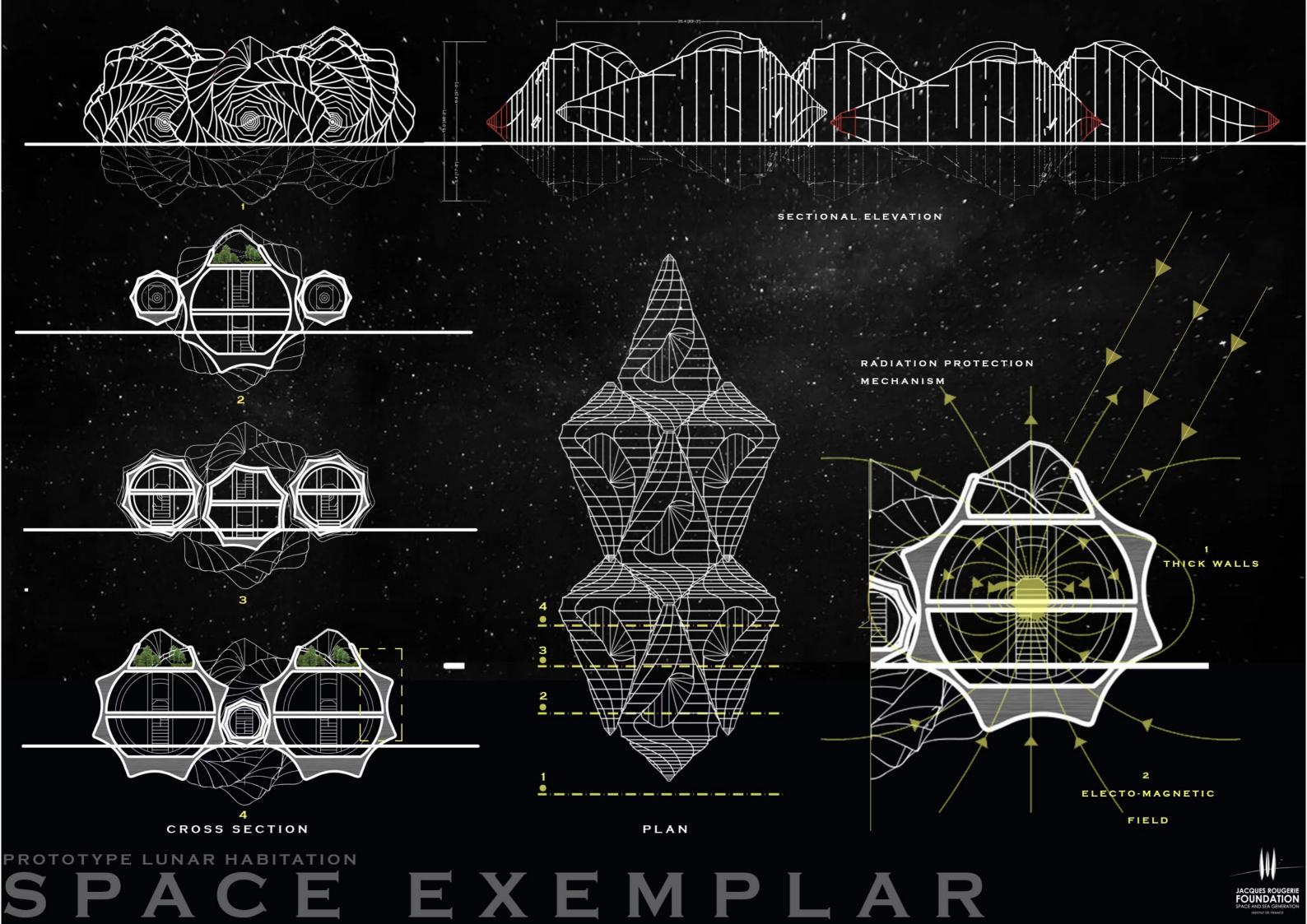
PROTOTYPE LUNAR HABITATION





PROTOTYPE LUNAR HABITATION







PLANTS GROW ON

NUTRIENT ENRICHED WATER (HYDROPHONIC
SYSTEM) AND SUNLIGHT. IT IS A SIMPLE TECHNOLOGY AND CAN BE USED IN A VARIETY OF SITUATIONS
AND SPACIAL CONFIGURATIONS

THE PROJECT PROPOSES MODULAR REGOLITH
PIPES WITH WATER DERIVED FROM LUNAR ICE. NUTRIENTS CARRIED FROM EARTH IN TABLET FORM
WILL BE ADDED TO THE WATER. SUNLIGHT IS
NEARLY PERPETUAL AT THE LUNAR SOUTH POLE
(SHACKLETON CRATER)

TRANSLUCENT CONCAVE GLASS SKYLIGHTS ARE PROPOSED TO DIFFUSE THE SHARP SUNLIGHT OF THE MOON

IMAGE COURTESY: FREE PIC

HTTPS://WWW.FREEPIK.COM/PREMIUM-PHOTO/ROW-PIPE-PLANTA
TION-HYDROPHOBIC_2512608.HTM

PROTOTYPE LUNAR HABITATION

SPACE



