NY SME'S 8TH ANNUAL CURRENT TRENDS IN MINING FINANCE CONFERENCE

Managing Risk and Identifying Opportunities in a Disruptive World
- Where Finding, Financing and Securing Supply is Critical

CONNECTING MINING, FINANCE AND ENGINEERING EXECUTIVES™

Rob McEwen, McEwen Mining

Entering a New Supercycle for Metals Without the Workforce to Maximize the Moment!

MAY 8 – 11, 2023



RPMGLOBAL SHEARMAN & STERLING SLR SME FOUNDATION

Managing Risk and Identifying Opportunities in a Disruptive World - Where Finding, Financing and Securing Supply is Critical

Rob McEwen

Chief Owner, McEwen Mining Inc.

Rob McEwen: Chairman, Chief Owner of McEwen Mining, which has four mines located in USA, Canada, Mexico and Argentina. Associated with the gold industry all his career, first 18 years in the investment industry and since 1990 as CEO of several gold mining companies.

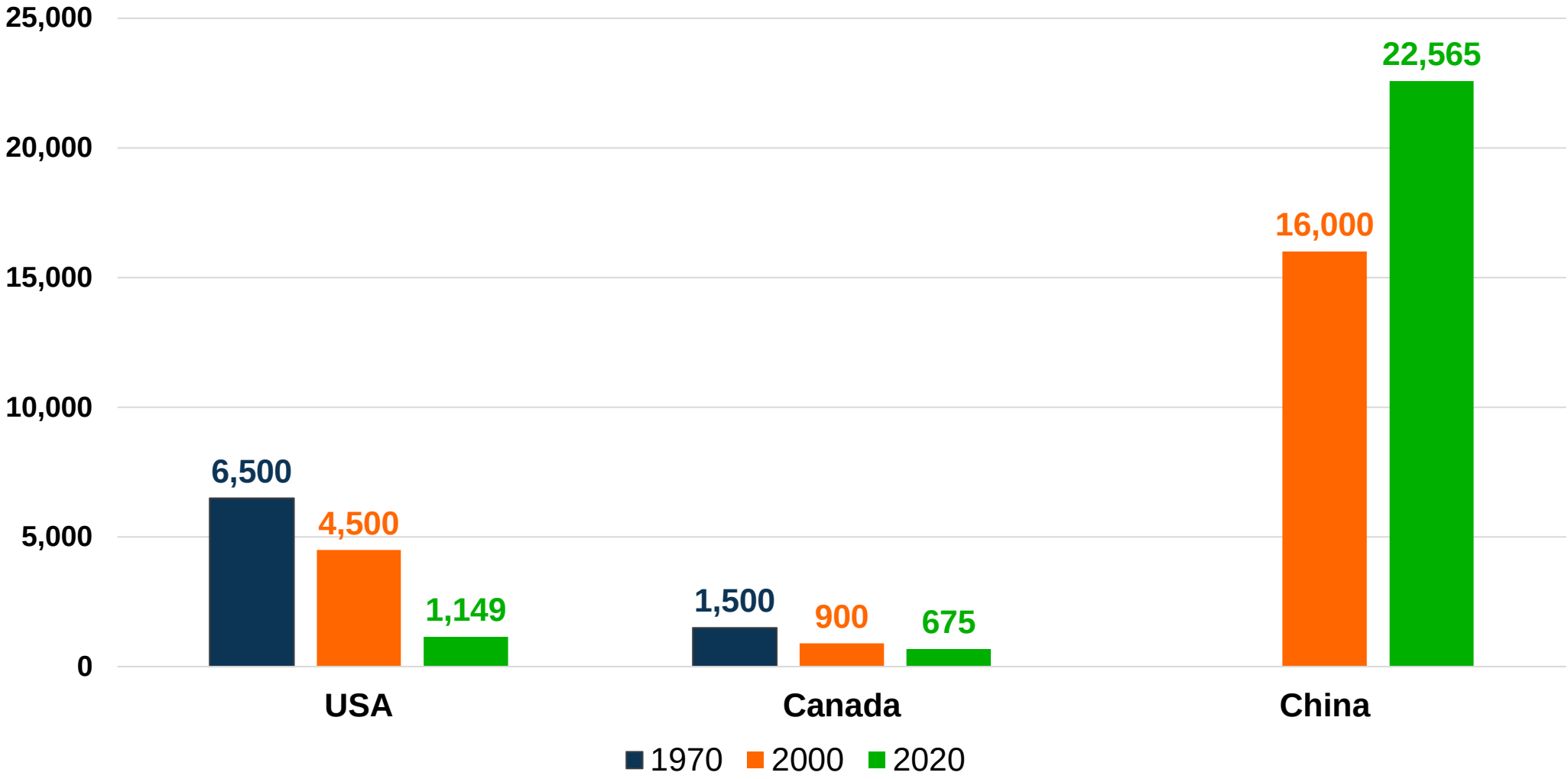
Founder of Goldcorp Inc., where he grew its market capitalization from $50 million to over $8 billion. At McEwen Mining (MUX) he owns 17% of the company, takes a salary of $1/ year and the cost of his investment in MUX and McEwen Copper exceeds US$220 million.

He and his wife have donated over $60 million to encourage excellence and innovation in healthcare and education.

Awards: Order of Canada, Canadian Mining Hall of Fame member, Honorary Doctorate of Law Degrees from York University and Western University.

Member of the Dean's Advisory Board, Schulich School of Business; X Prize Foundation: Vision Circle and Board of Trustees; a member of CEO (Chief Executive Organization) and of WPO (World Presidents' Organization) and serves on the Advisory Board of the McEwen School of Architecture.

The Disappearance of Students in Mining and Geology
1970 – 2020 in USA, Canada and Growing in China

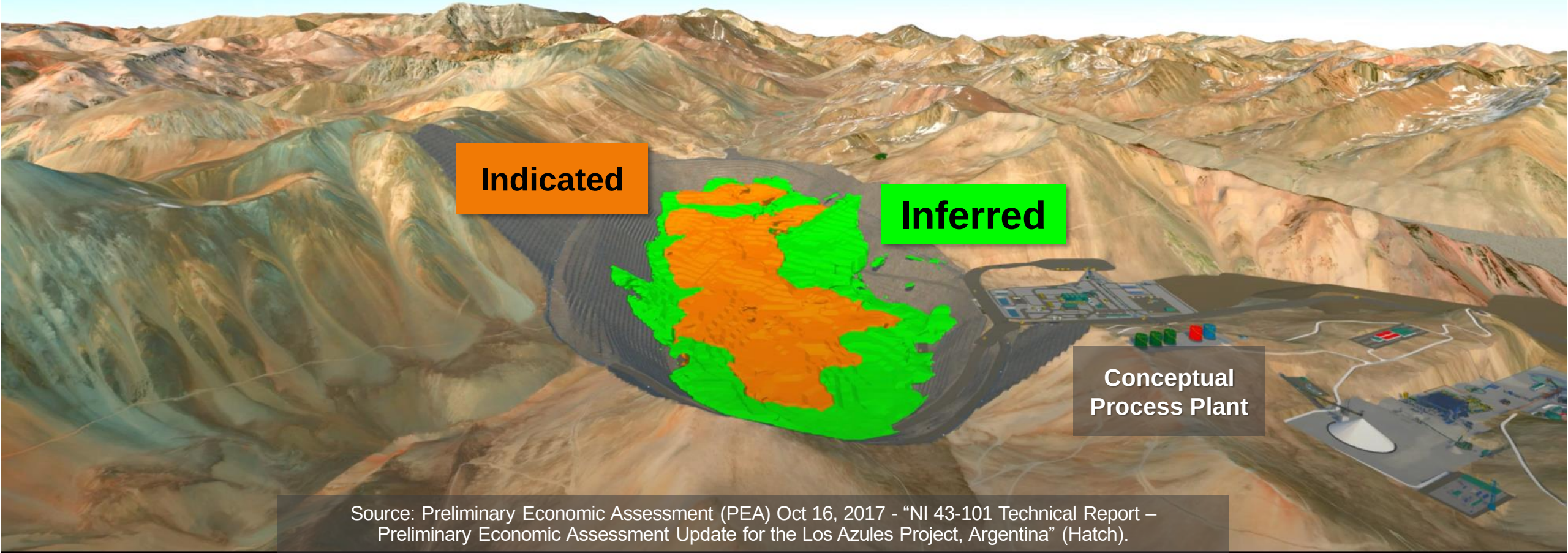


MUX

Source: Data from the World Mineral Production. Number of students enrolled in mining and geology programs in colleges and universities in the USA, Canada and China.

Los Azules: A Significant Copper Resource

	Tonnes	Copper lbs	Gold oz	Silver oz
Indicated	**962 Million**	**10.2 Billion** 0.48%	**1.7 Million** 0.06 g/t	**55.7 Million** 1.8 g/t
Inferred	**2,666 Million**	**19.3 Billion** 0.33%	**3.8 Million** 0.04 g/t	**135.4 Million** 1.6 g/t

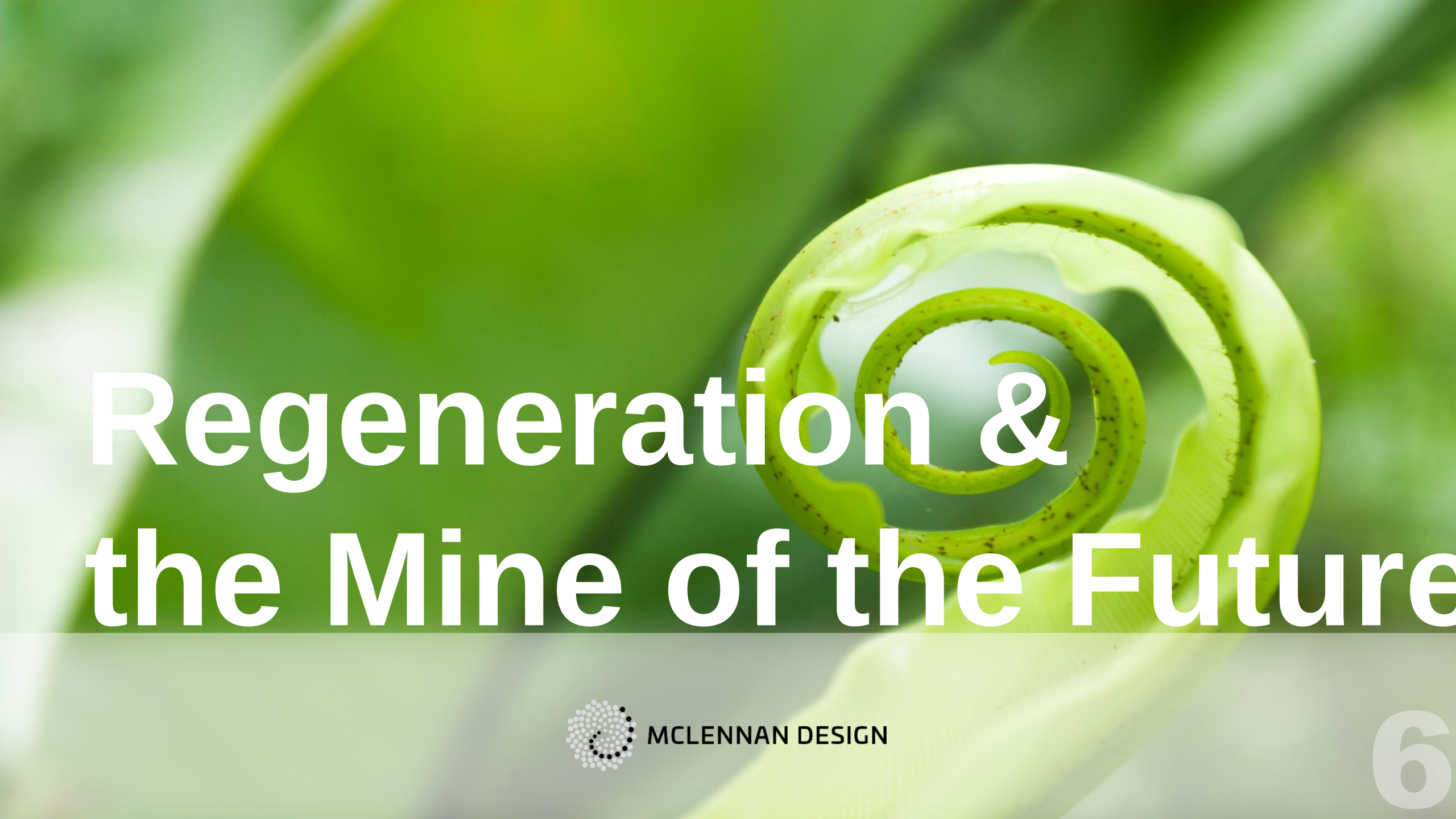


Source: Preliminary Economic Assessment (PEA) Oct 16, 2017 - "NI 43-101 Technical Report – Preliminary Economic Assessment Update for the Los Azules Project, Argentina" (Hatch).

Los Azules Goals and Principles

Imagine traveling thousands of feet up into the Andes to visit one of the world's most important copper mines and finding an experience that is vastly different from any other mine in the world.

Imagine stepping foot into the future of the industry. In a world needing to adjust quickly to tackle climate change and adopt renewable technologies, copper is a fundamental building block. Copper mining has traditionally had a large environmental impact – until now.



Regeneration & the Mine of the Future

MCLENNAN DESIGN

MCLENNAN DESIGN WORK

REGENERATIVE DESIGN ACROSS SCALES

Deep Green Projects Around the World


















Firm at a Glance

Perkins&Will

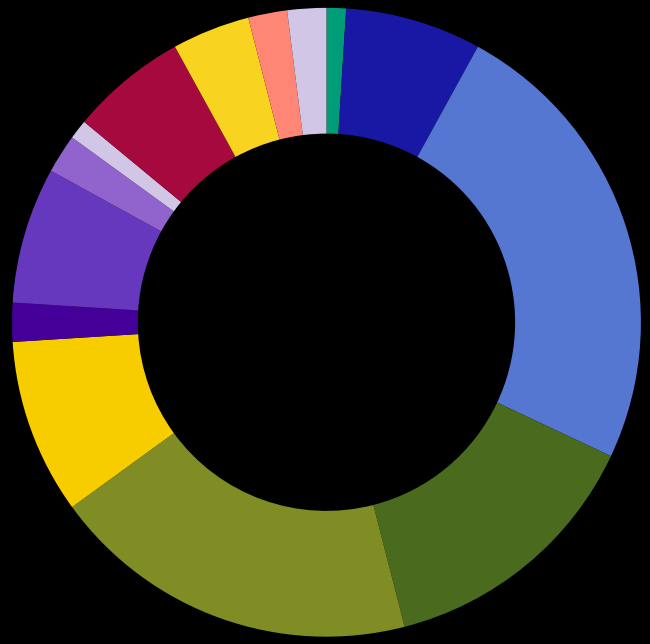
Founded in
1935

Total Staff
2700+

Areas of Practice
14

Studios
25

Aarhus
Atlanta
Austin
Boston
Charlotte
Chicago
Copenhagen
Dallas
Denver
Dubai
Durham
Houston
London
Los Angeles
Miami
Minneapolis
New York
Ottawa
San Francisco
São Paulo
Seattle
Shanghai
Toronto
Vancouver
Washington, DC



- Branded Environments
- Civic and Cultural
- Corporate and Commercial
- Corporate Interiors


'IN SUPPORT' OF THE MCEWEN
EVERGREEN VISION
VISION
THE CREATION OF THE
WORLD'S GREENEST MINE

Electrification of Everything

VISION

THE CREATION OF THE
WORLD'S GREENEST MINE

'IN SUPPORT' OF THE MCEWEN
EVERGREEN VISION

MISSION

- THE FIRST **ZERO CARBON** COPPER MINE IN THE WORLD
- THE **SAFEST & HEALTHIEST** MINE IN THE WORLD
- THE **MOST PROFITABLE** COPPER MINE IN THE WORLD (BY CREATING ADDITIONAL VALUE)
- THE CREATION OF A **POSITIVE & HIGHLY DESIRABLE PLACE TO WORK**, THAT IS AN ASSET TO ARGENTINA AND ITS PEOPLE
- TO **INSPIRE CHANGE** TO THE MINING INDUSTRY THROUGH DEMONSTRATION OF INNOVATION, RESPONSIBILITY AND PROFITABILITY
- TO BUILD THE MOST **TECHNOLOGICALLY ADVANCED** MINE THAT UTILIZES APPROPRIATE TECHNOLOGY, AUTOMATION AND ENABLING TECHNOLOGIES

VISION

THE CREATION OF THE
WORLD'S GREENEST MINE

'IN SUPPORT' OF THE MCEWEN
EVERGREEN VISION

MISSION

- TO HAVE A NET-POSITIVE ECOLOGICAL IMPACT THAT IS **PROTECTIVE OF HABITAT, WATER QUALITY & LOCAL SPECIES**
- TO CLEARLY **DEMONSTRATE MCEWEN MINING'S LEADERSHIP** AND TO CREATE POSITIVE BRAND IMPACTS FOR ALL ITS PARTNERS
- TO PRODUCE ABUNDANT AMOUNTS OF VALUABLE COPPER AND ASSOCIATED METALS TO HELP **WITH THE WORLD'S TRANSITION TO RENEWABLE ENERGY**
- TO BECOME APPEALING TO A WIDER AND MORE **RESPONSIBLE** INVESTOR AUDIENCE WITH A FOCUS ON **ETHICAL MINING & ESG OUTCOMES**.


LOS AZULES
GUIDING PRINCIPLES
REGENERATION VISION

Guiding Principles

Principle 1: Think in Terms of Regeneration, Not Mere Reduction
Principle 2: Solve for Essence
Principle 3: Nature Runs on Sunlight
Principle 4: “Order of Operations” Thinking
Principle 5: Plan with End Game in Mind
Principle 6: Backcast to Success
Principle 7: Question Rules of Thumb and Ask ‘Five Whys’
Principle 8: Think in Terms of Wholes, Not Parts
Principle 9: The Circle of the Known
Principle 10: Look for Nested Solutions
Principle 11: Harness the Power of Limits
Principle 12: Use a Holistic ROI Filter

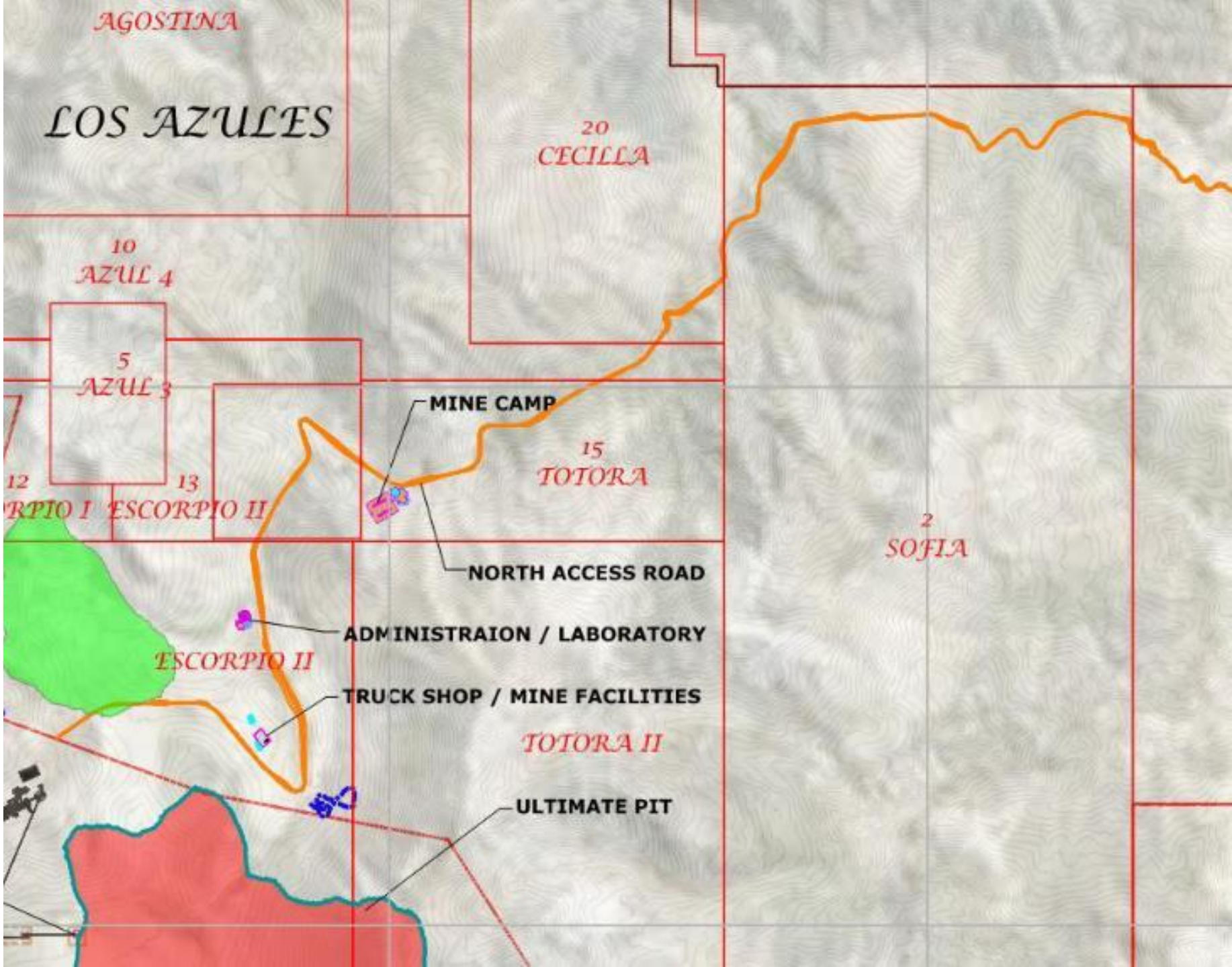
November 15th, 2022

LOS AZULES | CAMP VISION

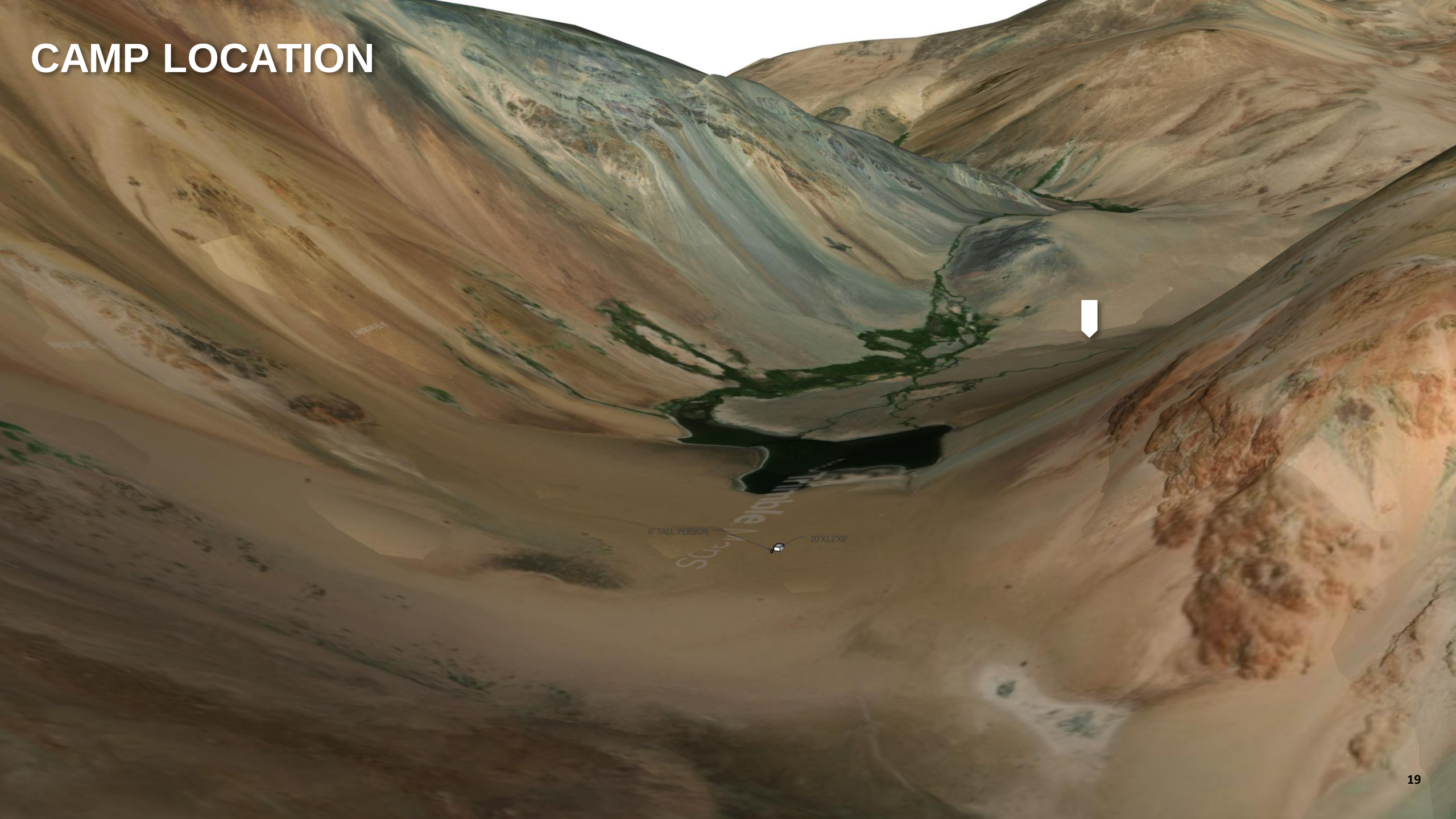
MCLENNAN DESIGN

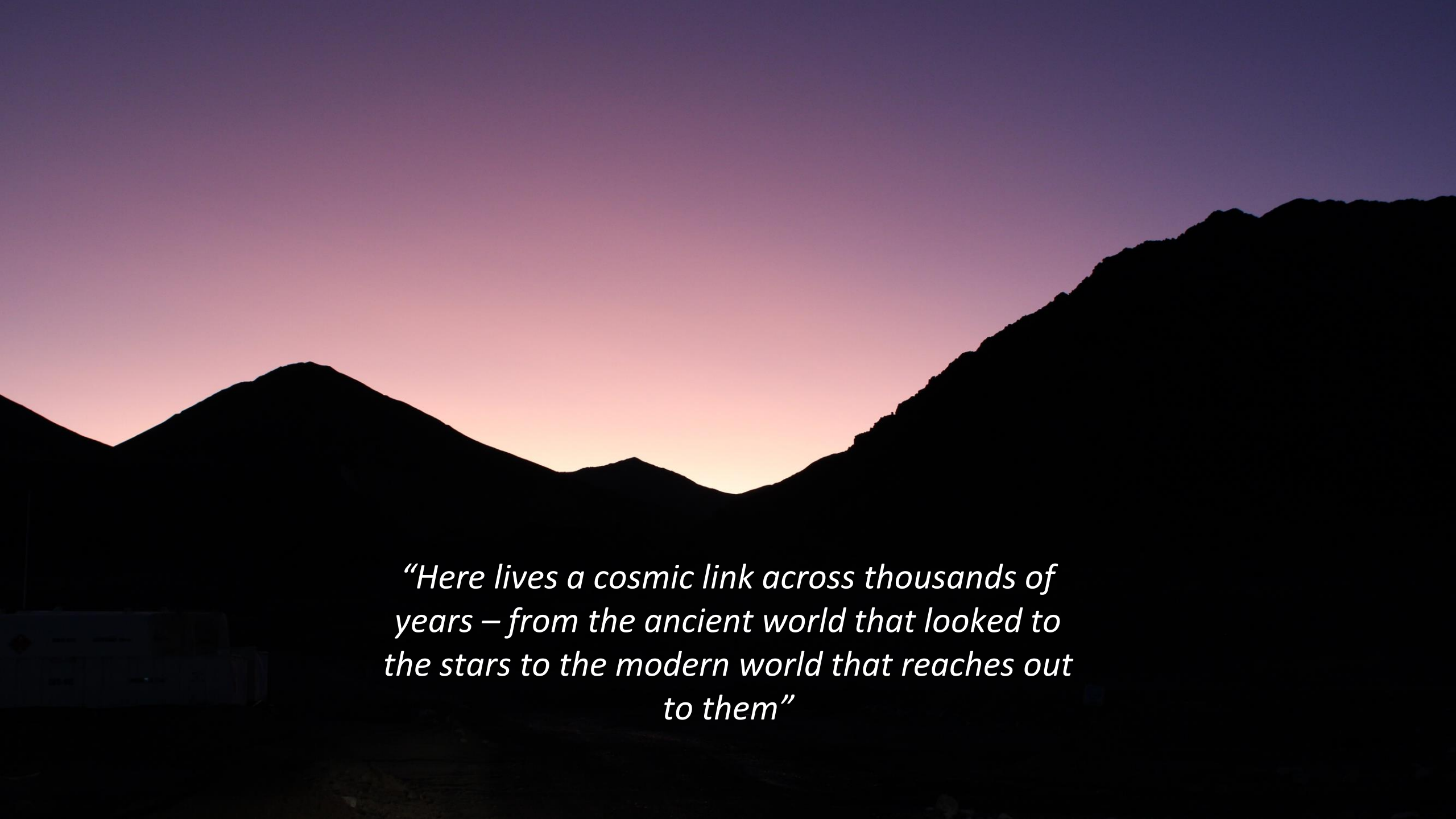

How do we create an iconic and innovative environment for Los Azules workers?

CAMP LOCATION

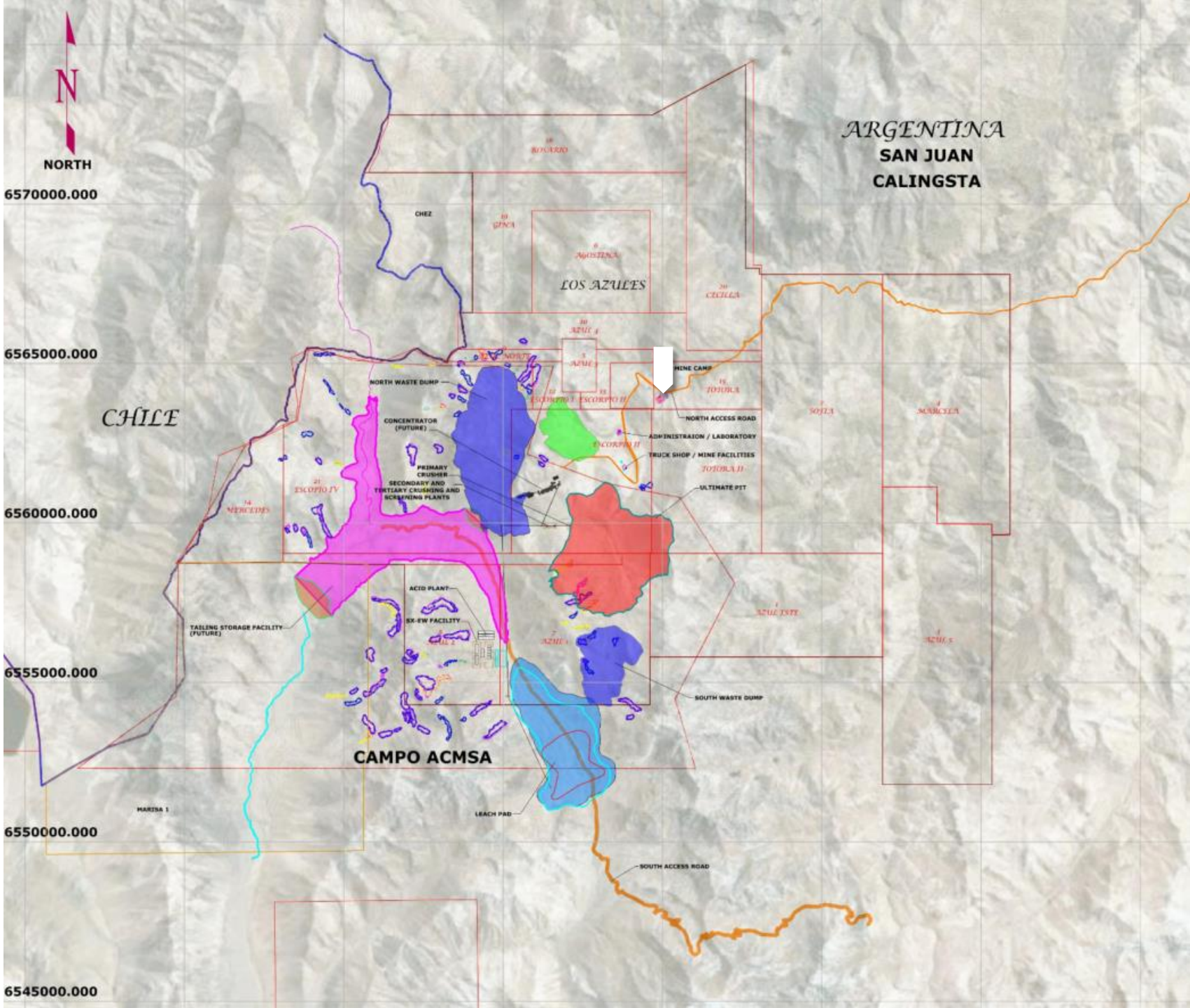


CAMP LOCATION




“Here lives a cosmic link across thousands of years – from the ancient world that looked to the stars to the modern world that reaches out to them”

CAMP LOCATION



CAMP LOCATION


Inspiration

Incan Inspiration

Incan Empire | A nod to historic custodians

Place Making

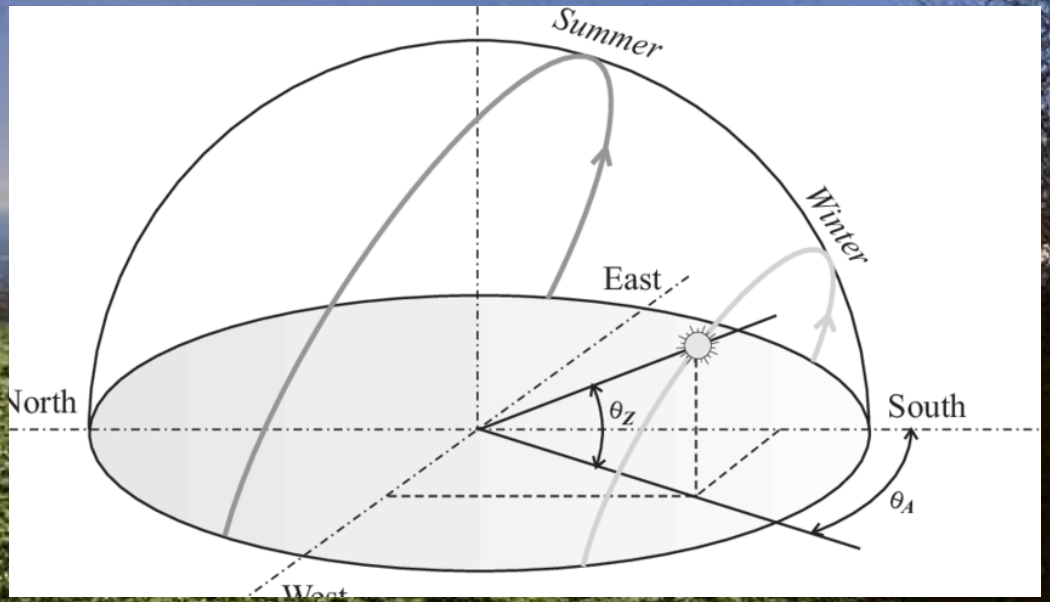
Inti the Incan Sun God| The Sun In Architecture

Incan Sun Temple | Qorikancha

Incan Sundial

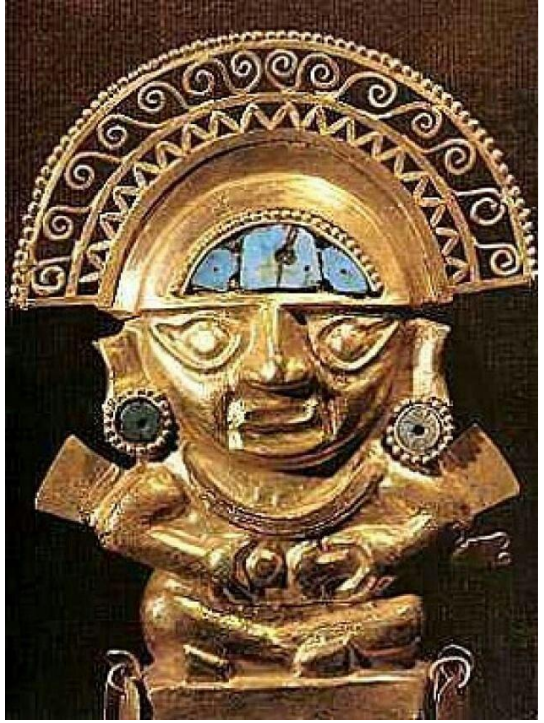
Place Making

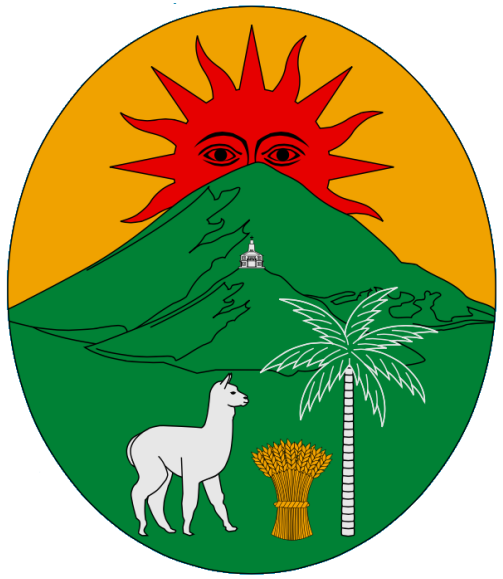
Be of the Place | Following the Sun



Place Making

Inti the Incan Sun God





The Value Of Health

Why Innovate?

- More Desirable Workplace – Better recruitment and retainage
- Less Sick Days
- Greater Productivity
- Fewer Accidents
- Enhanced Brand Recognition and Market Position
- Better Community Goodwill
- Happier Miners

Impacts to Miner Health

- Stress, Safety, Productivity, Cognition, Wellbeing
  - Noise
  - Oxygen
  - Air Quality
  - Thermal Comfort
  - Biophilia
  - Circadian Health - shift work
  - Safety
  - Privacy
  - Exposure to Elements – wind, sun
  - Uninterrupted sleep
  - Nutrition, Diet

High Altitude Camps

Moon-Like Harsh Environments

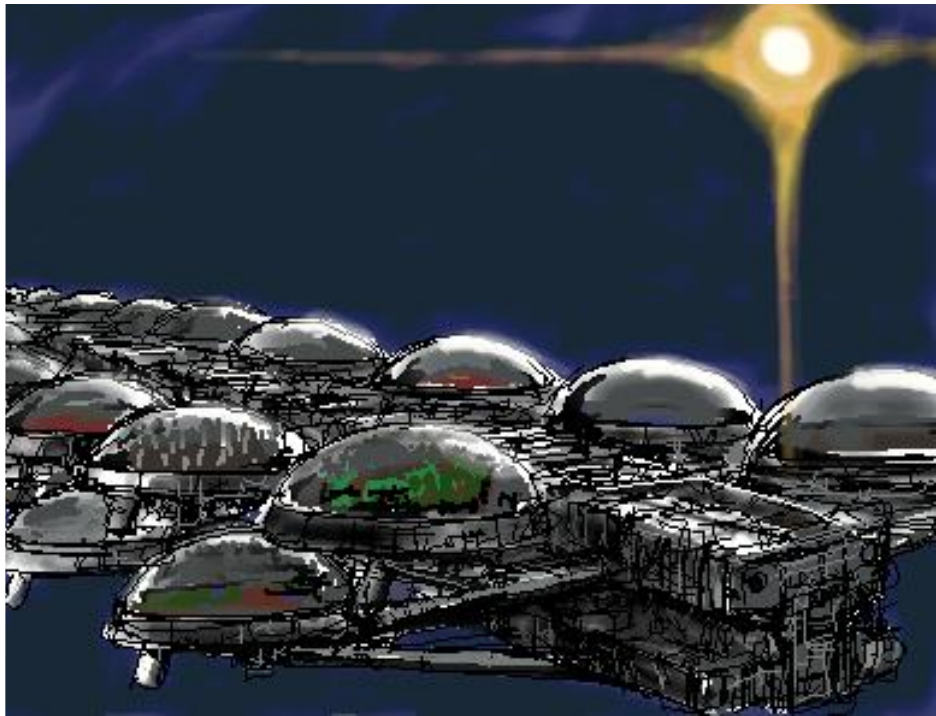
- Harsh shift environments at altitude
- What could make a mining camp a comfortable place of refuge?


SPACE CAMPS

A Space Camp On Earth

Creating An Oasis In the Uninhabitable

- We have all seen visions of abundant life in harsh environments
- The Starlost, 2001 Space Odyssey, etc.



A Space Camp On Earth

Self Contained Life | Closed-Loop

- Creating self-contained ecosystems
- Everything you need can be created anywhere
- Creating life to support life – an ecosystem

A Space Camp On Earth

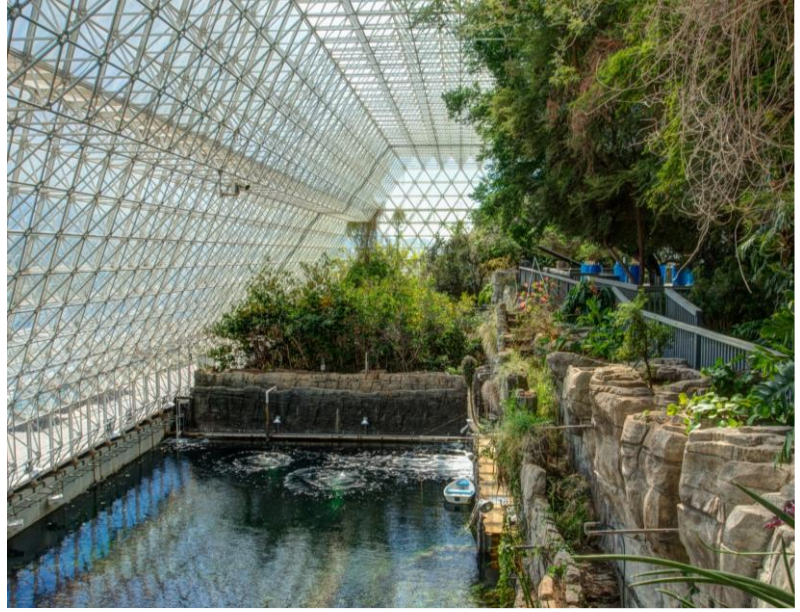
Creating An Oasis In the Uninhabitable

- Biospheres or Sci-Fi?
- Creating an idyllic environment inside a closed bubble

A Space Camp On Earth

Biosphere 2

- Designed in the 90’s as a fully self-sufficient community
- Currently used to conduct research on different climates
- Initially deemed a failure, but now seen as useful for research



Camp Inspiration

Terraced Stone | Mountain Village

The Value Of Health

Intrinsic Attraction to Nature

- The Hanging Gardens of Babylon
- Throughout history we see humans desiring a green paradise
- We have an intrinsic need to be surrounded by life

- Improved stress recovery
- Improved cognitive function
- Enhanced mental stamina
- Elevated moods
- Increased learning rates
- Lower blood pressure
- Increased productivity

The Value Of Health

Healthier Spaces

- Planted spaces have improved air quality
- Biophilia impacts health and mental performance
- Higher levels of oxygen and removal of particulates

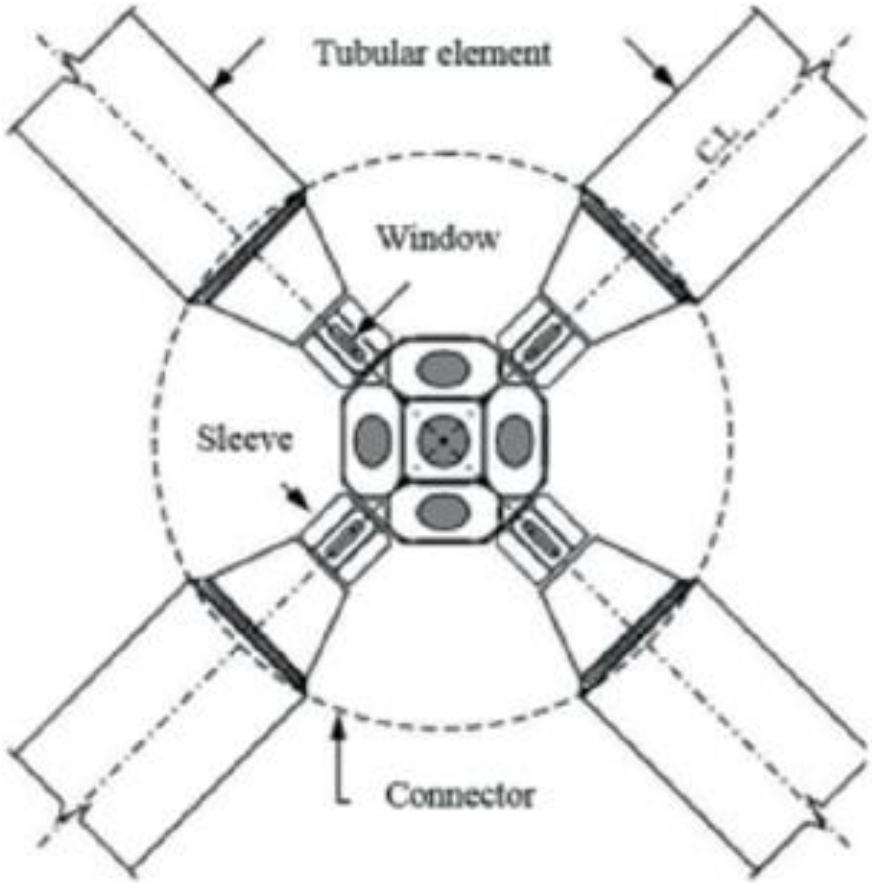
Iconic Primal Shapes

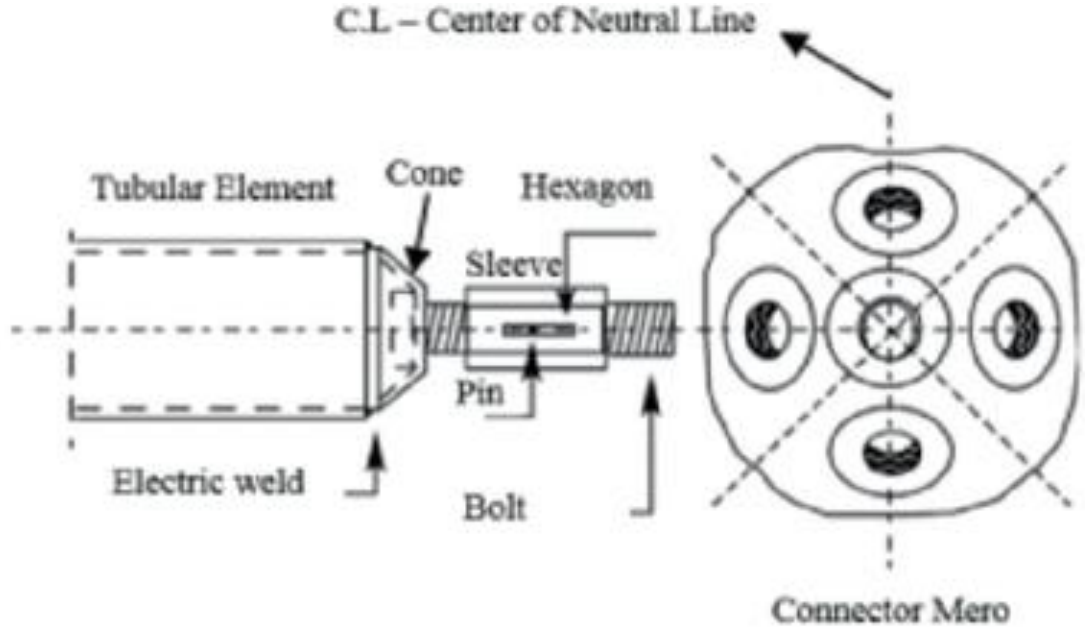
Creating an Icon

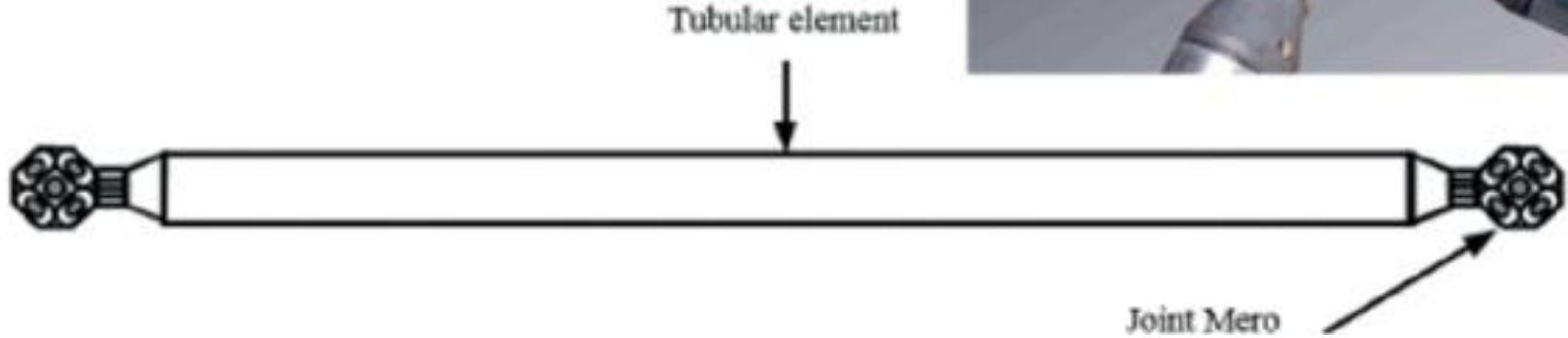
- Apple Park in Cupertino, CA
- An Iconic Structure
- Incorporates greenspace, solar production, and iconic place-making

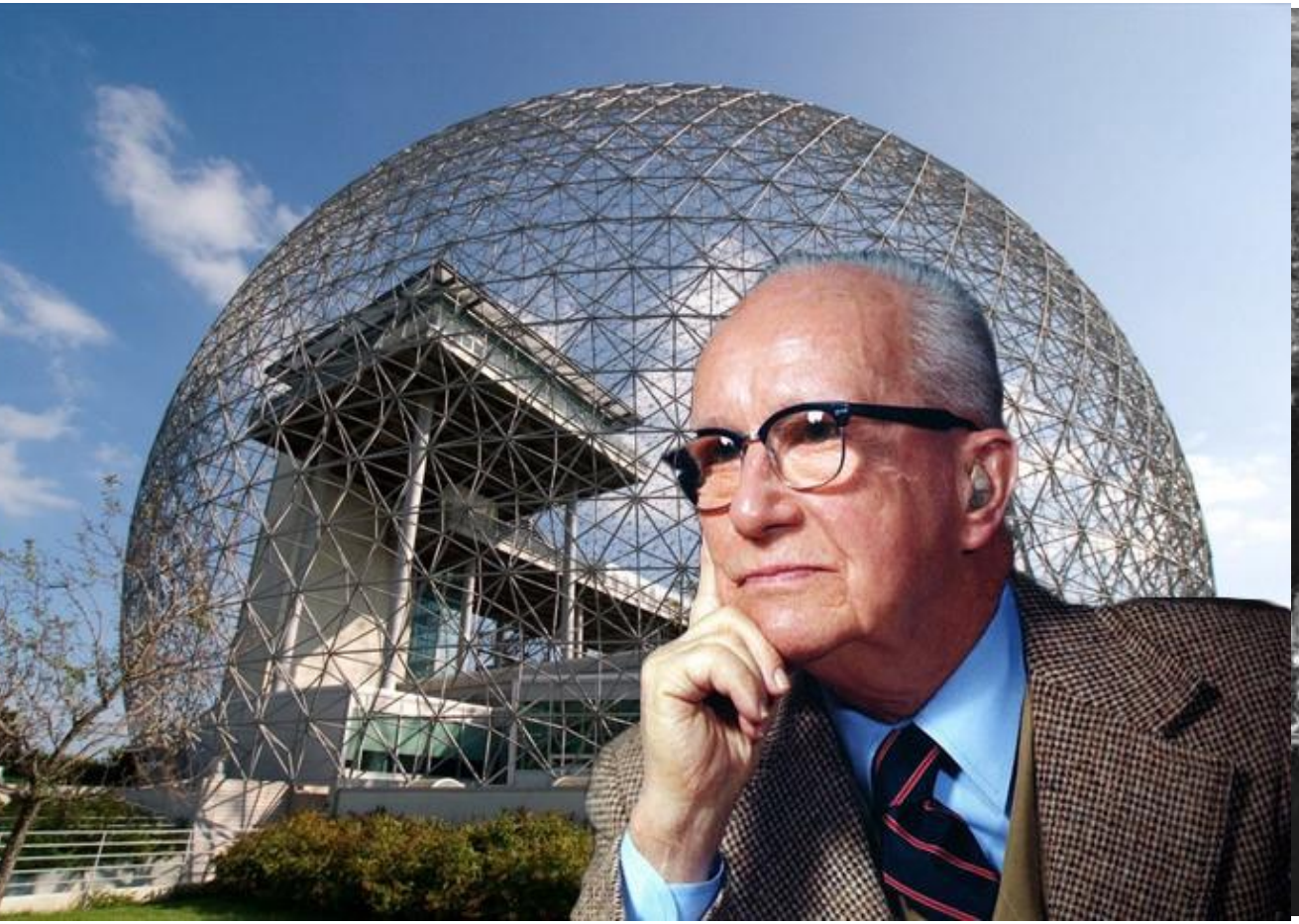
Amazon Spheres

How do we cover large areas inexpensively?


Tubular element
C.L
Window
Sleeve
Connector


C.L – Center of Neutral Line
Tubular Element
Cone
Hexagon
Sleeve
Pin
Electric weld
Bolt
Connector Mero

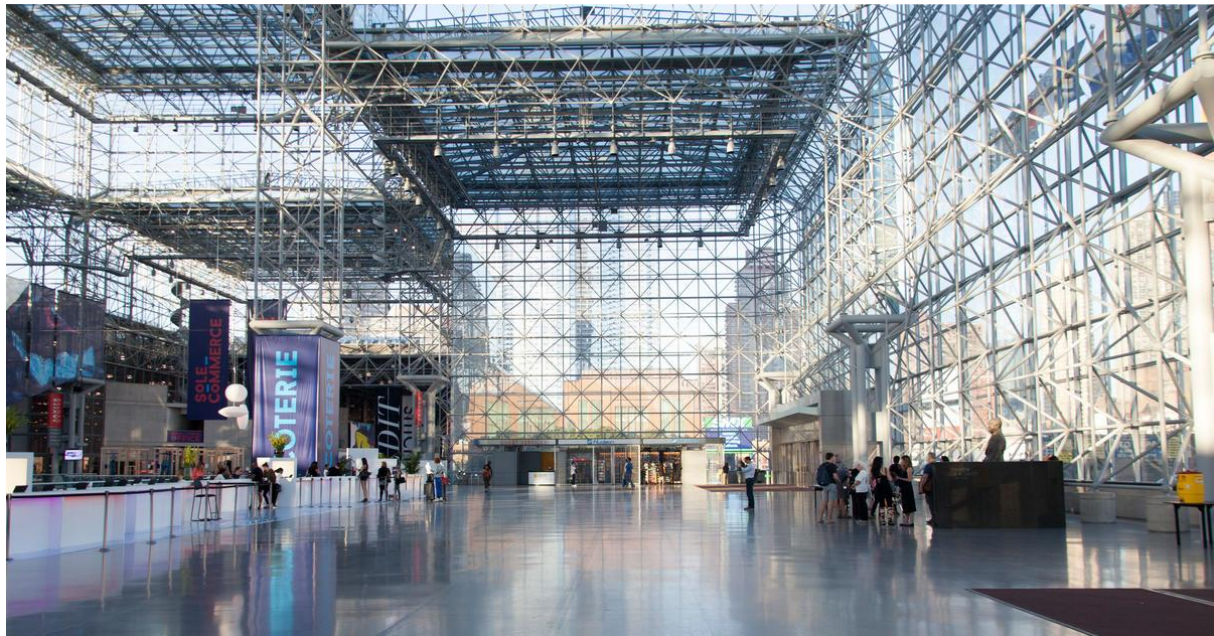

Tubular element
Joint Mero



Camp Inspiration

Space Frame | Economical Superstructures

- Buckminster Fuller Pioneered the technology
- Commonly used in aircraft hangers, arenas, airports, convention centers, etc.



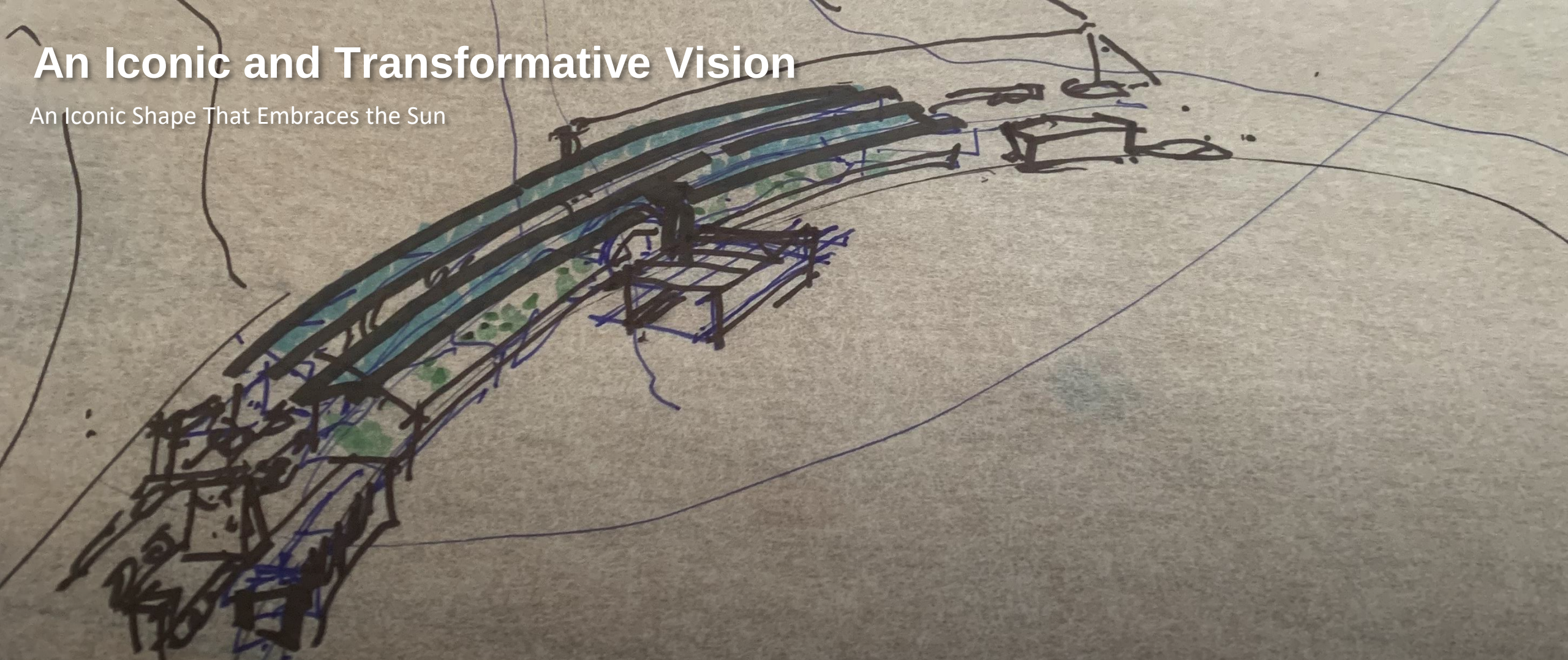
Fabric Membrane Roofs

ETFE Roofs

Image: Iwan Baan

An Iconic and Transformative Vision

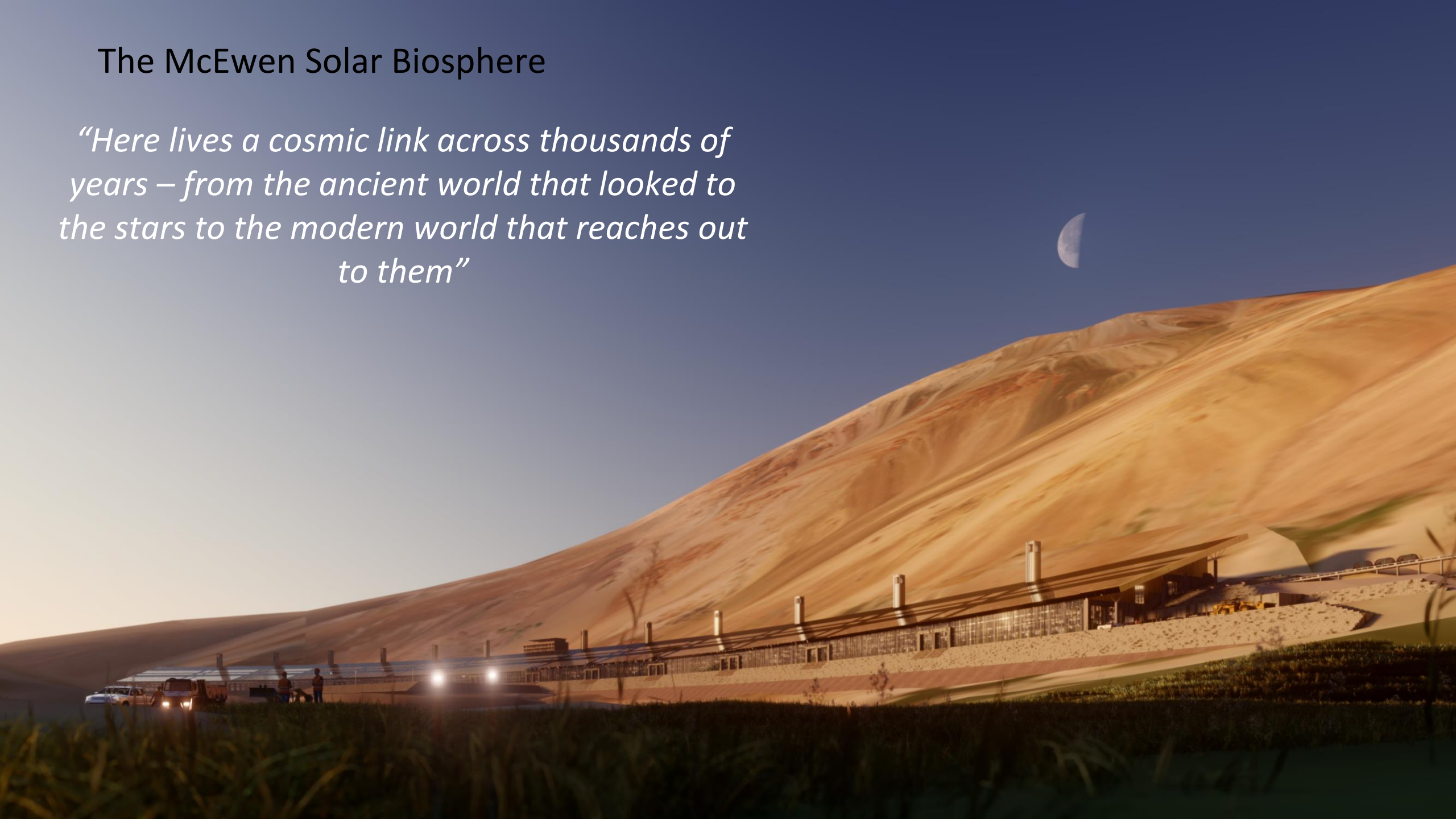
An Iconic Shape That Embraces the Sun



- Mirroring the ark of the sun path
- Community gathering as the gnomon of the sundial
- Oriented for optimal solar exposure and energy generation

The McEwen Solar Biosphere

“Here lives a cosmic link across thousands of years – from the ancient world that looked to the stars to the modern world that reaches out to them”

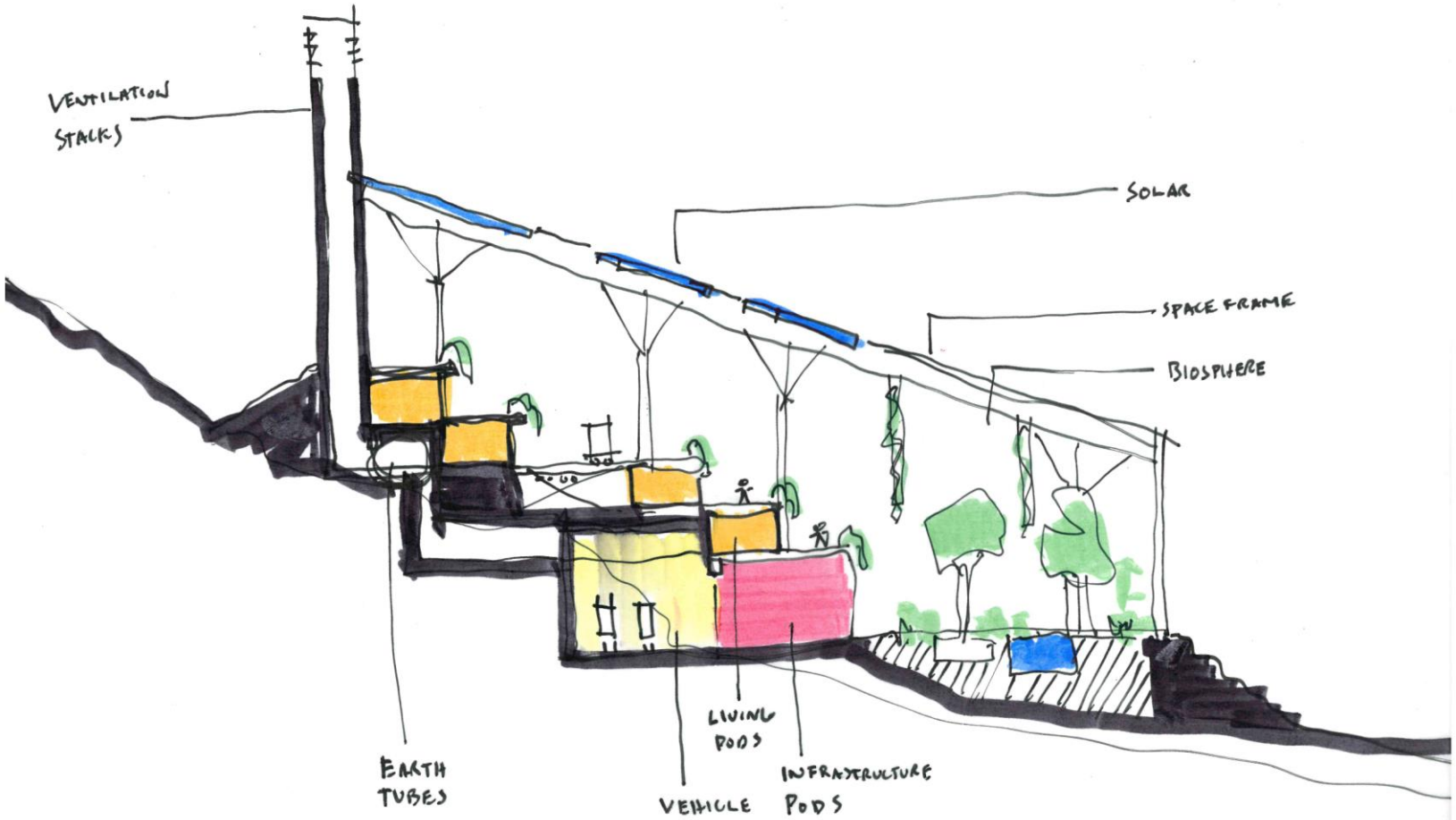


The McEwen Solar Biosphere

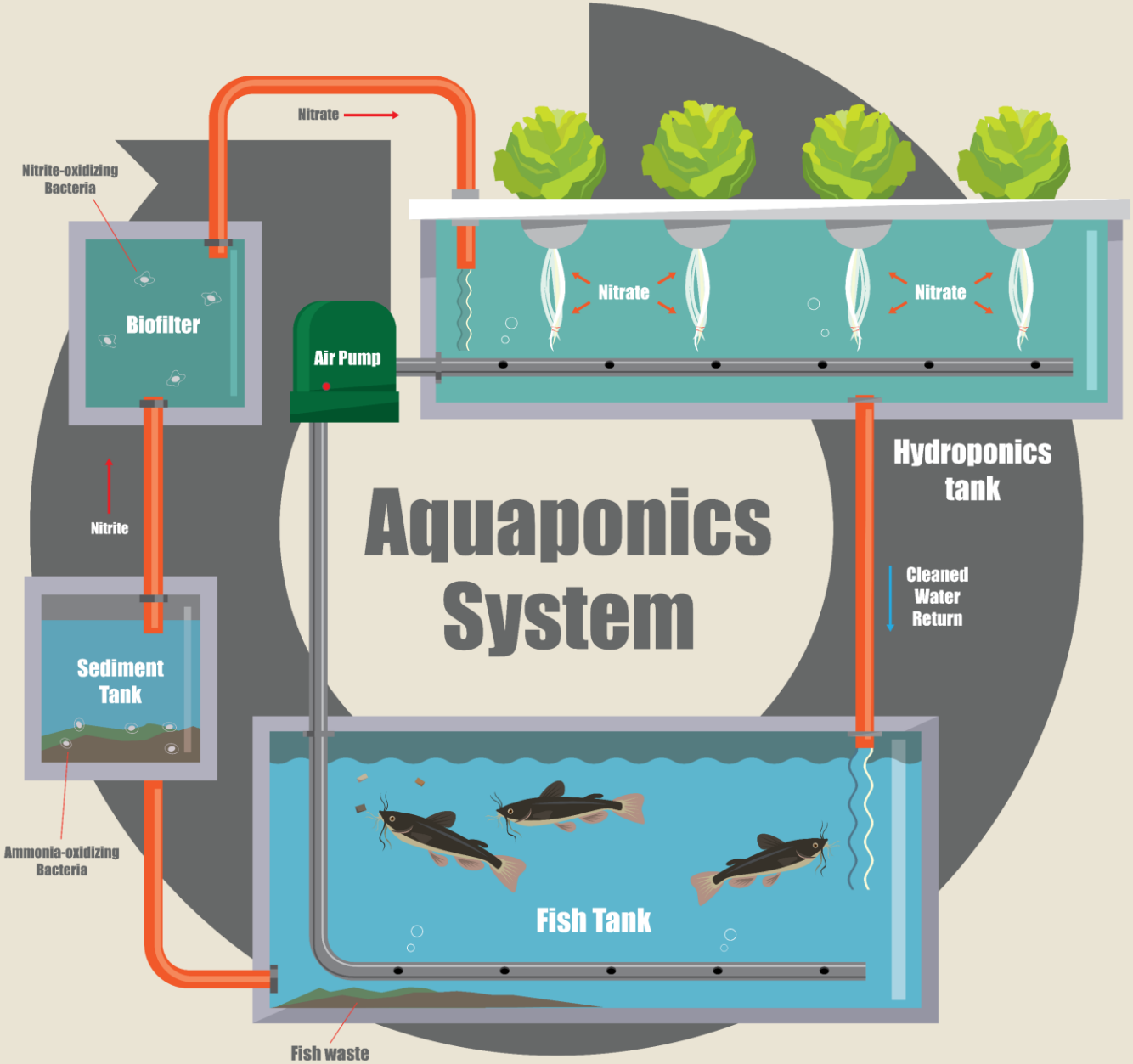
Investor Vision
Social License
Recruitment Tool
PR /Marketing Magnet

The Greenest Copper in the world - where workers are taken care of….

An oasis of calm…. Filled with life, warm, peaceful and healing


VENTILATION STACKS
SOLAR
SPACE FRAME
BIOSPHERE
EARTH TUBES
VEHICLE
LIVING PODS
INFRASTRUCTURE PODS

Food Systems


Nitrate
Nitrite-oxidizing Bacteria
Biofilter
Air Pump
Nitrate
Nitrate
Hydroponics tank
Aquaponics System
Nitrite
Cleaned Water Return
Sediment Tank
Ammonia-oxidizing Bacteria
Fish Tank
Fish waste

Aquaponics

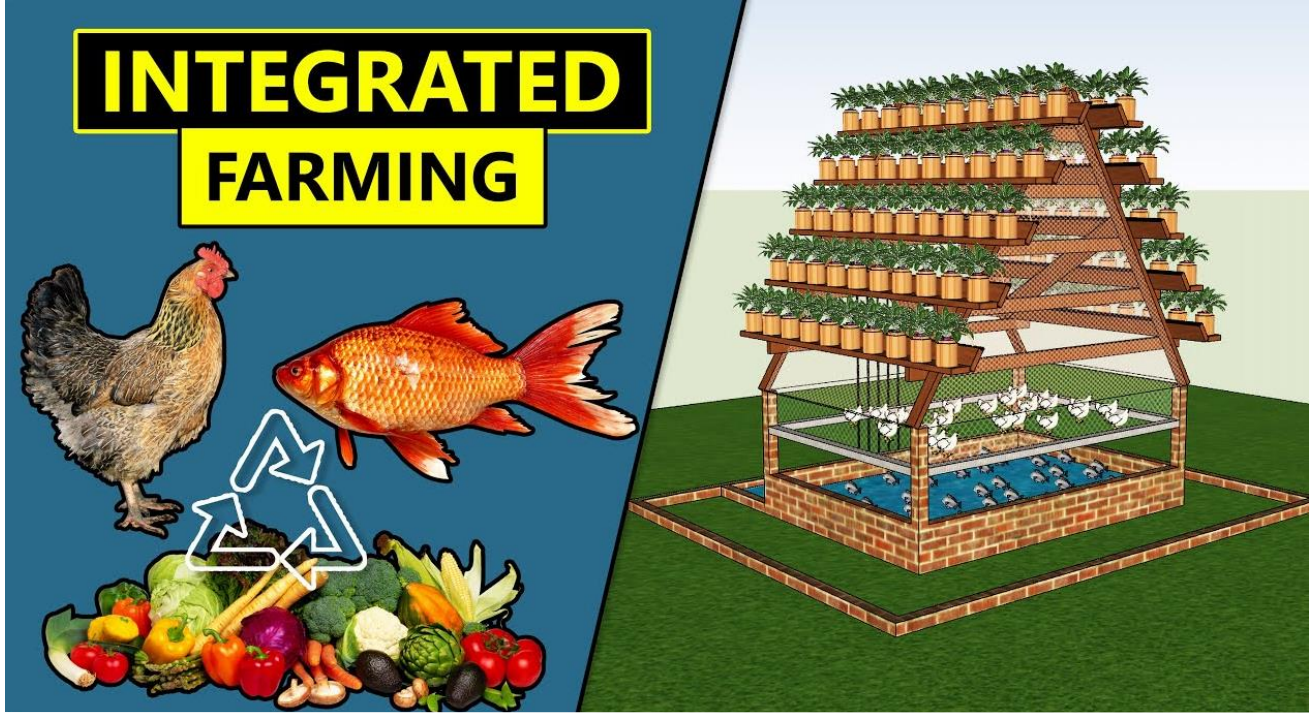
Closed-Loop Agriculture

- Aquaponics uses up to 90% less water than traditional agricultural practices
- Fish produce nitrogen-rich soil that feeds the plants who return purified water to the fish
- Highly efficient system that can operate anywhere in the world

Aquaponics

Closed-Loop Agriculture

- Closed-loop aquaponics at the mine camp
- Produce all fish and vegetables for the mine staff
- Chickens to produce all of the camp’s eggs



Waste Water Treatment

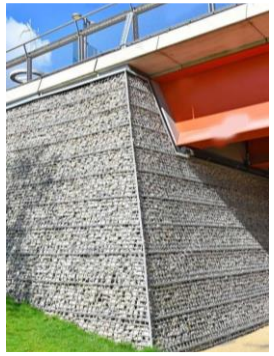
The Omega Institute

- Mimics the estuary ecosystem
- Filters water to potable standards
- Chemical-free

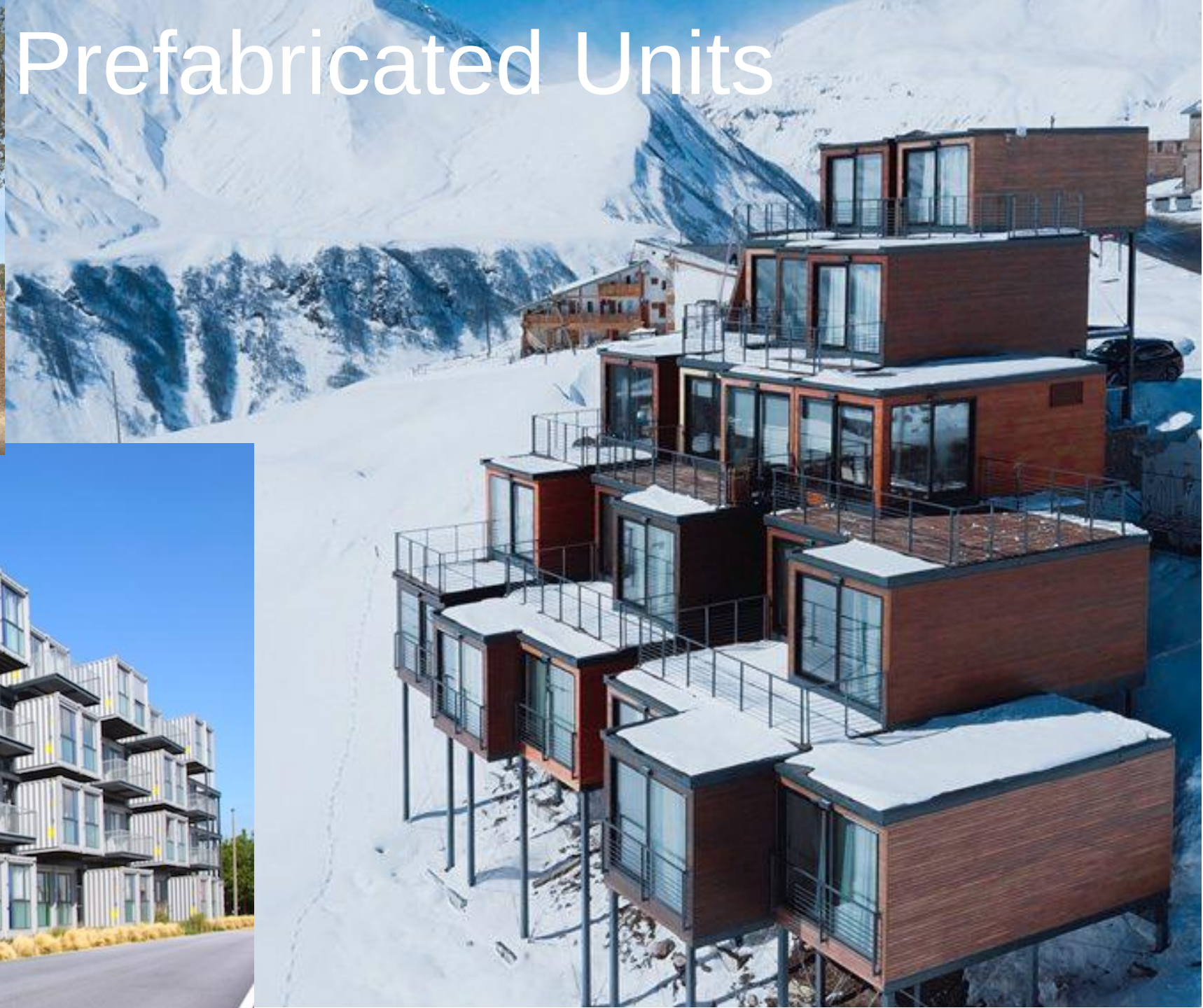
Camp Inspiration

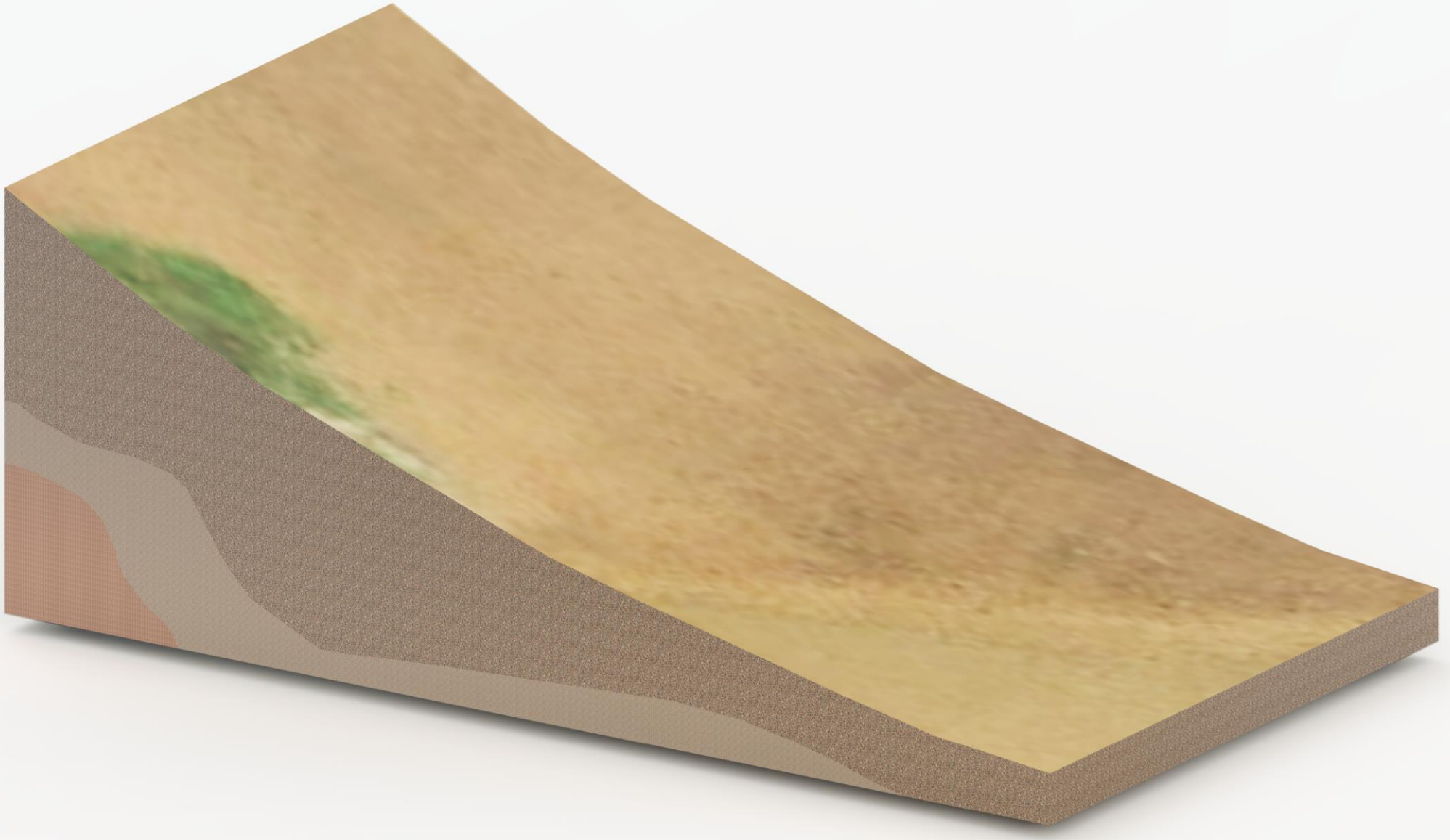
Leave No Trace – Gabion Walls

- Bringing as little to the site as possible
- Utilize found materials
- Construct with decompostables
- Pack it in – Pack it out

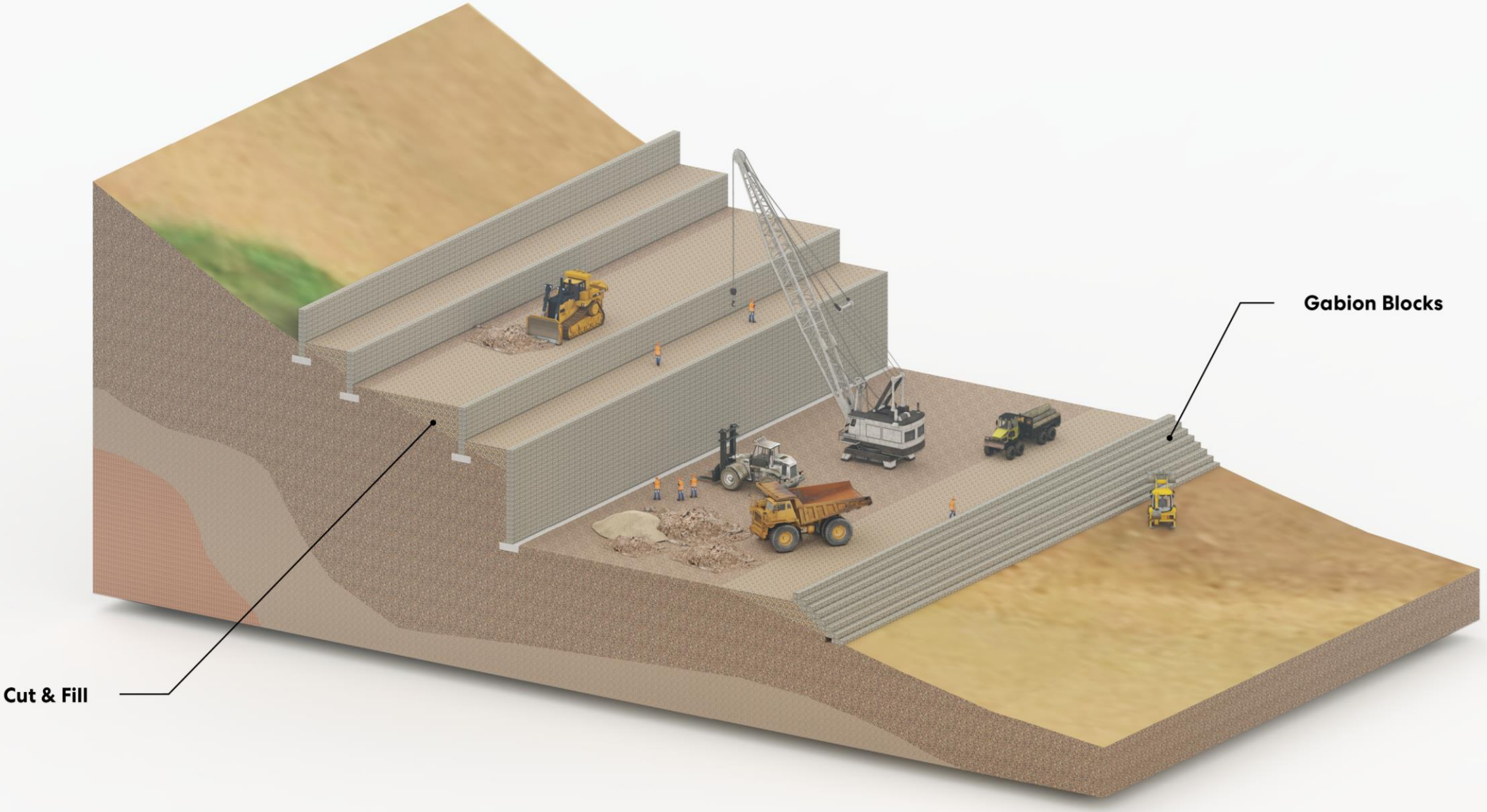


Prefabricated Units

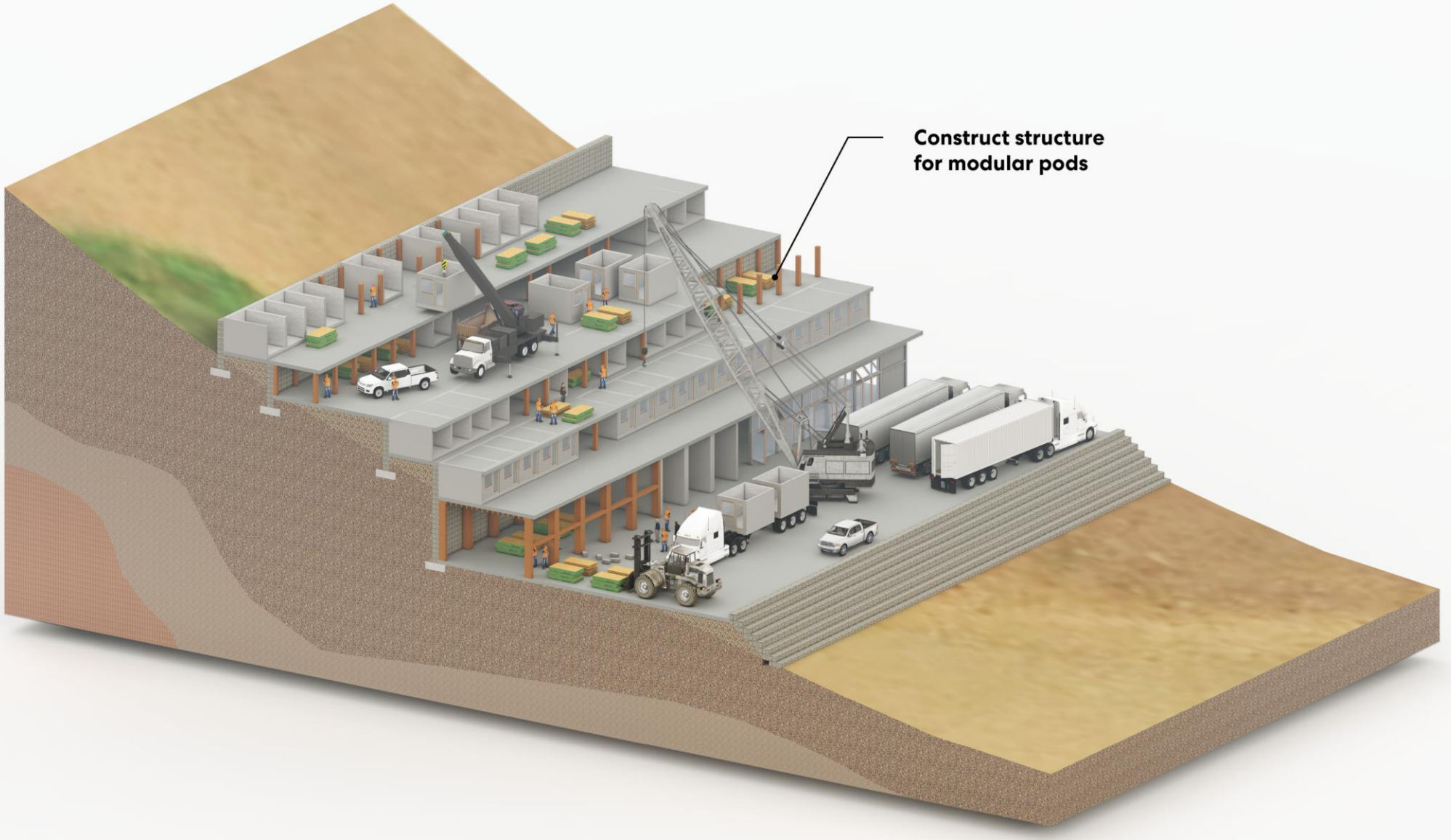




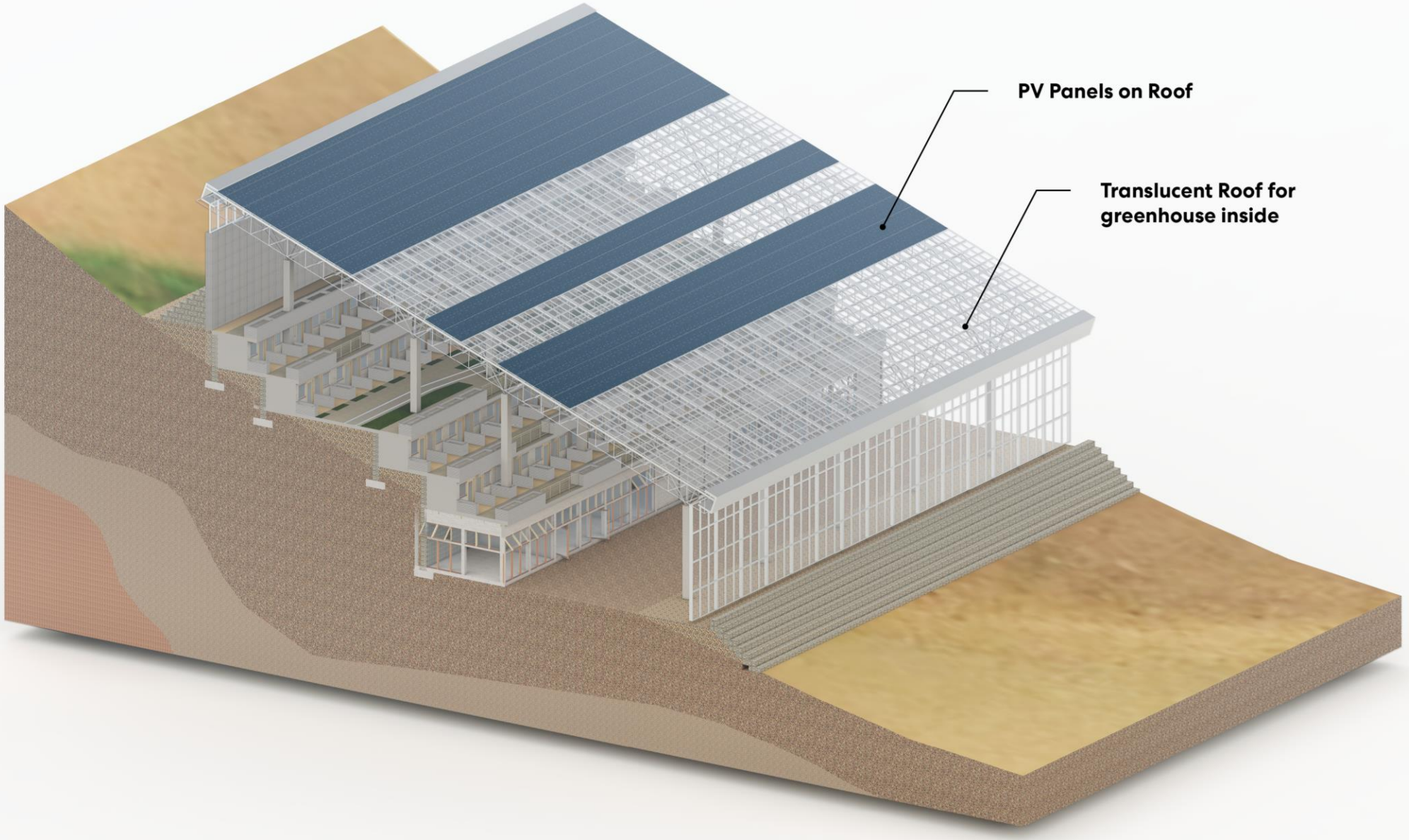
Hillside Location



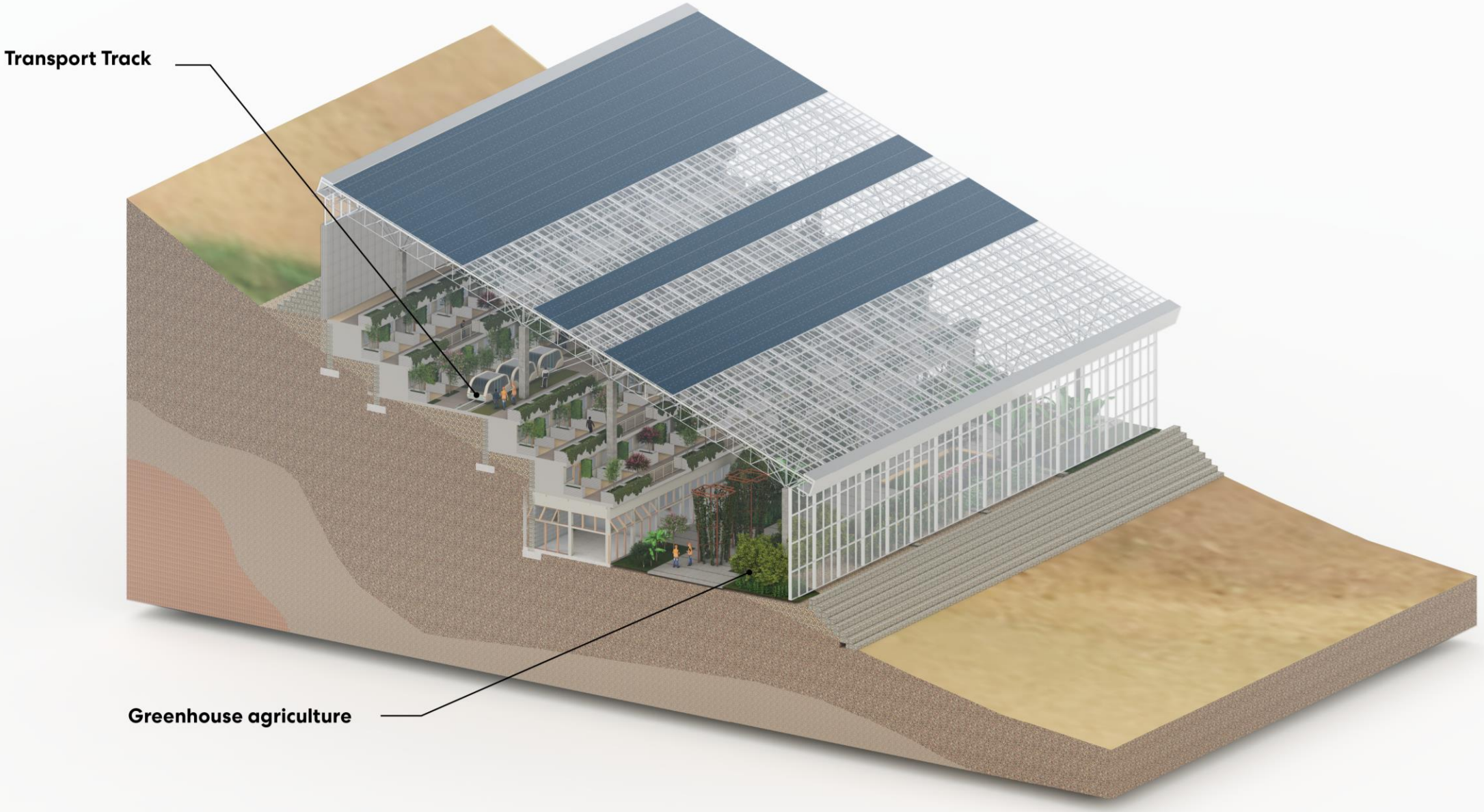
Grading and Site Work



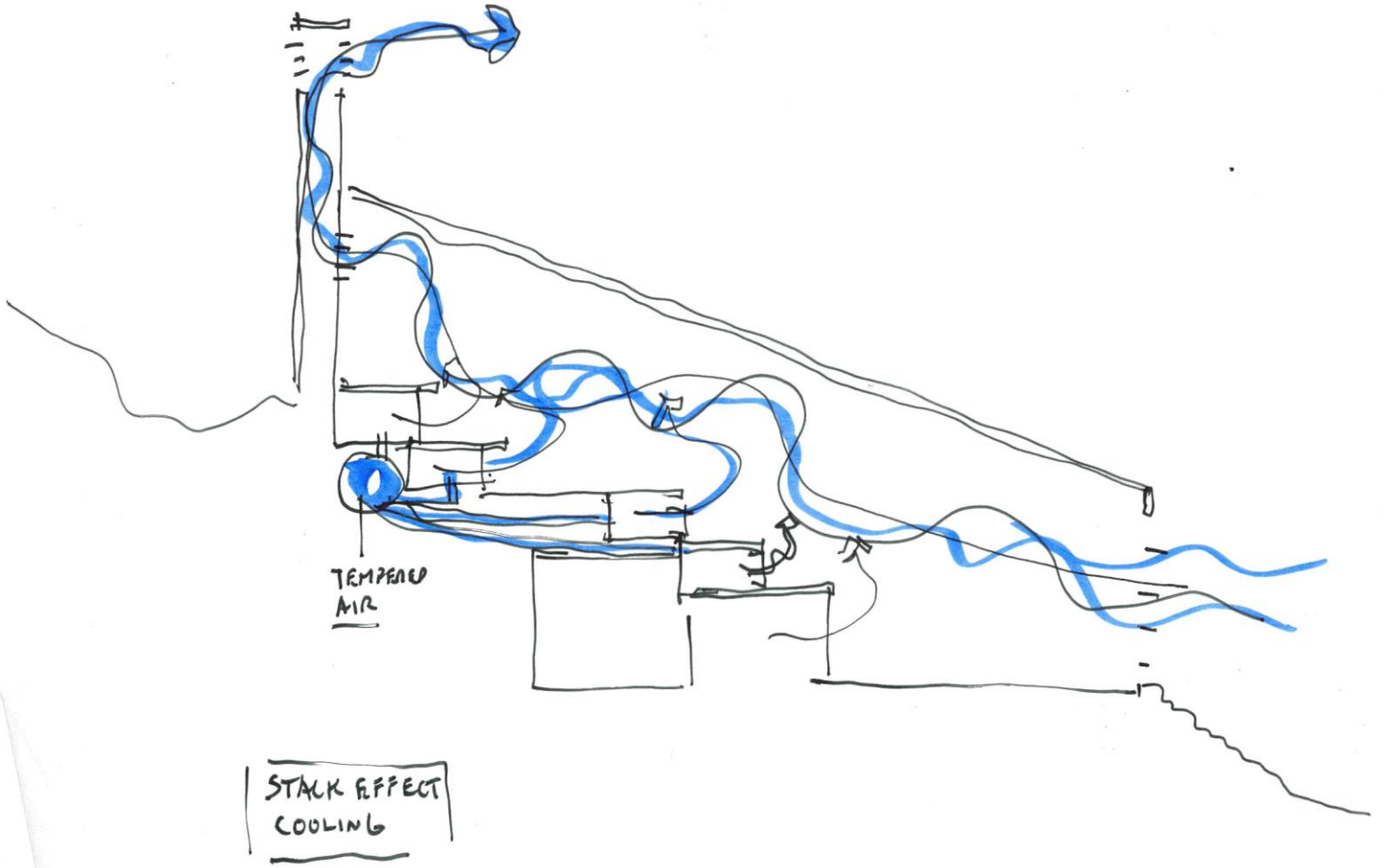
Install Modular Housing Pods on Levels



Setup Solar Space Frame Roof



Finish out Biodome and Village Amenities



STACK EFFECT
COOLING

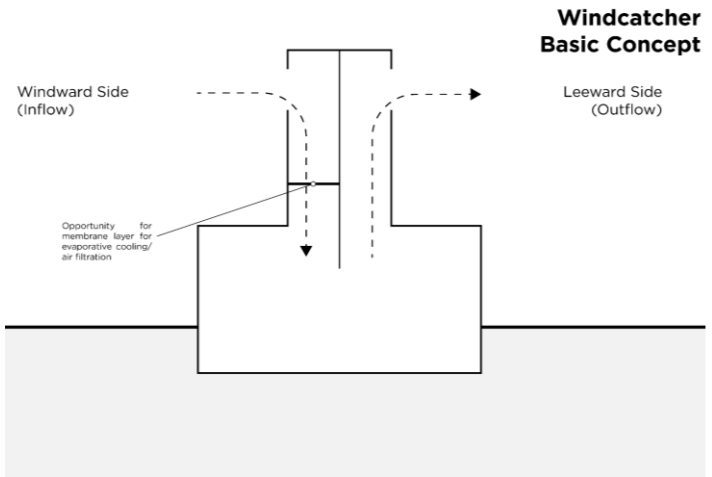
Earth Tubes and Stack Ventilation

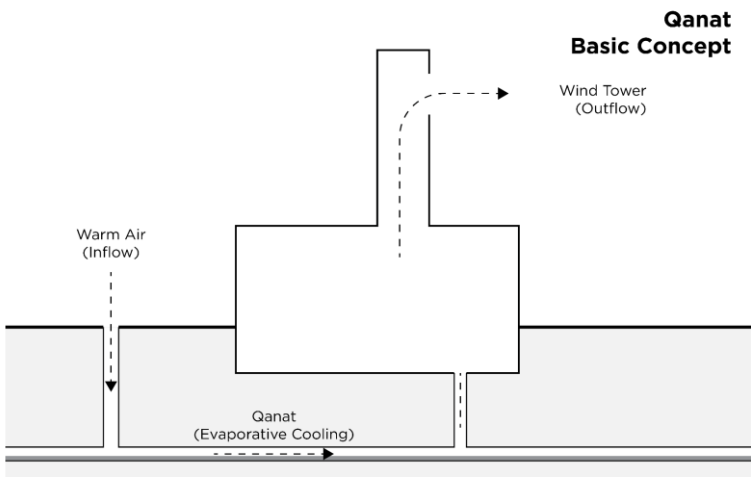
Using Diurnal Temperature Swings and

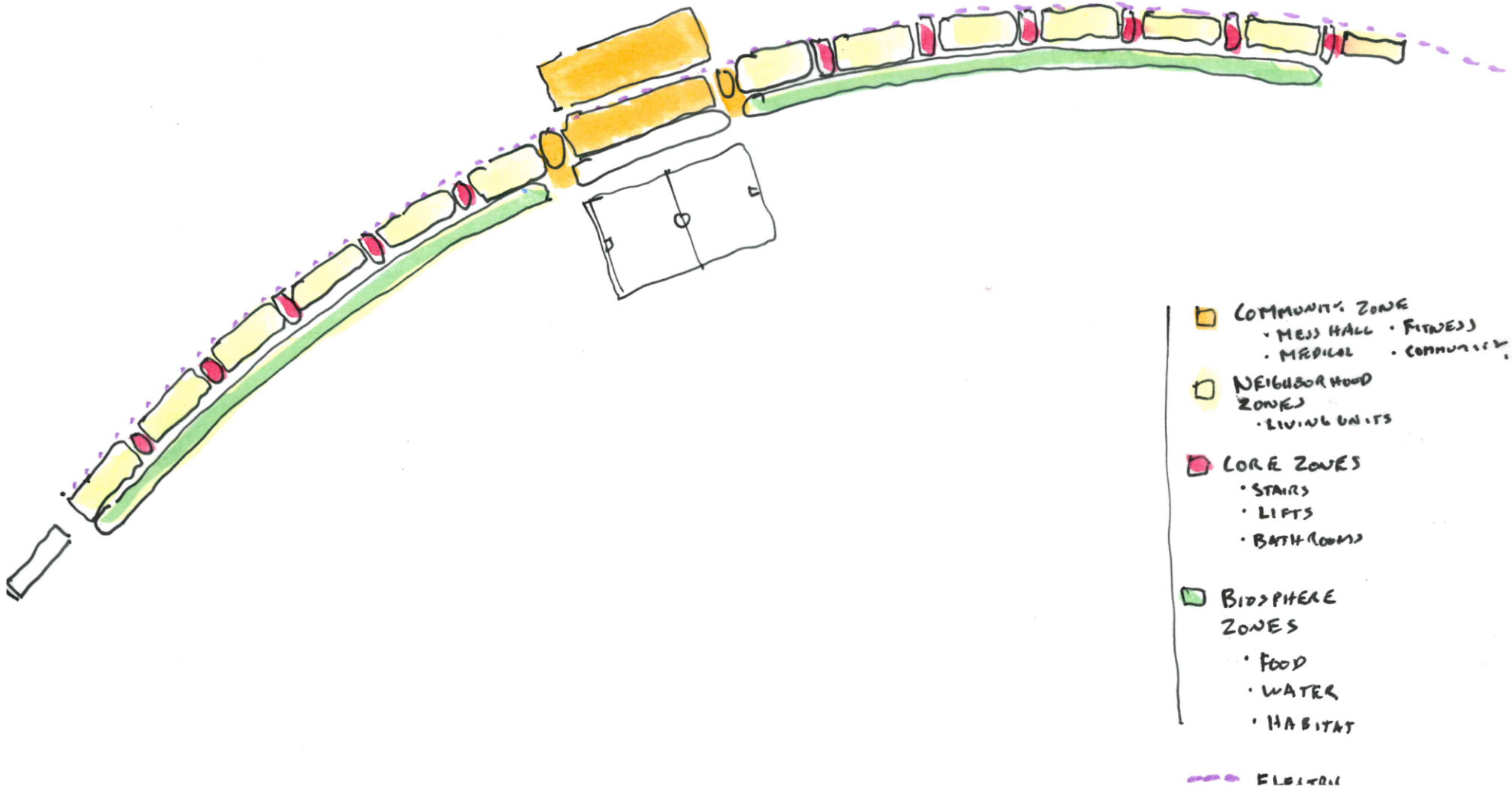
Constant Earth Temperatures to regulate

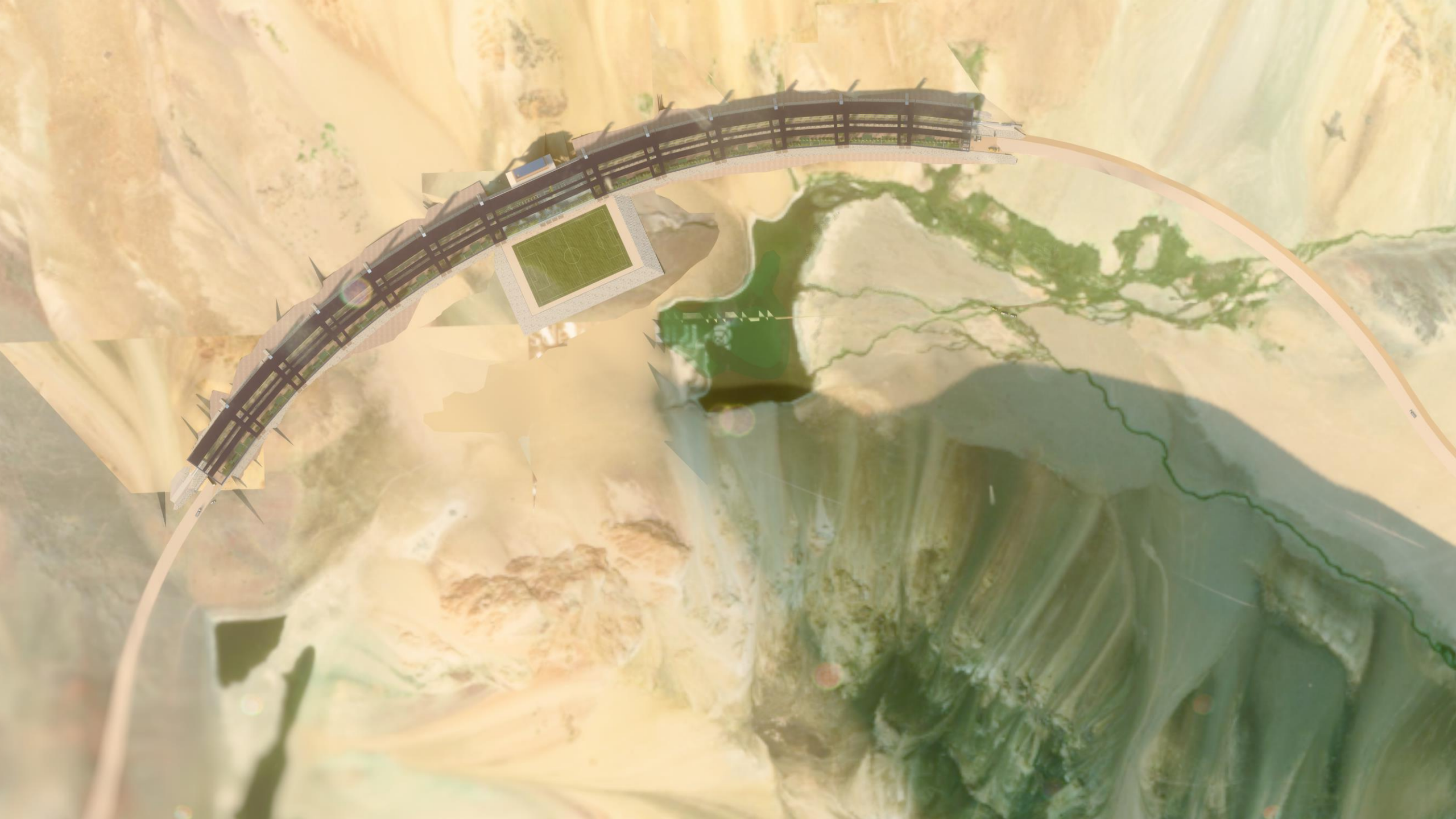
through the season

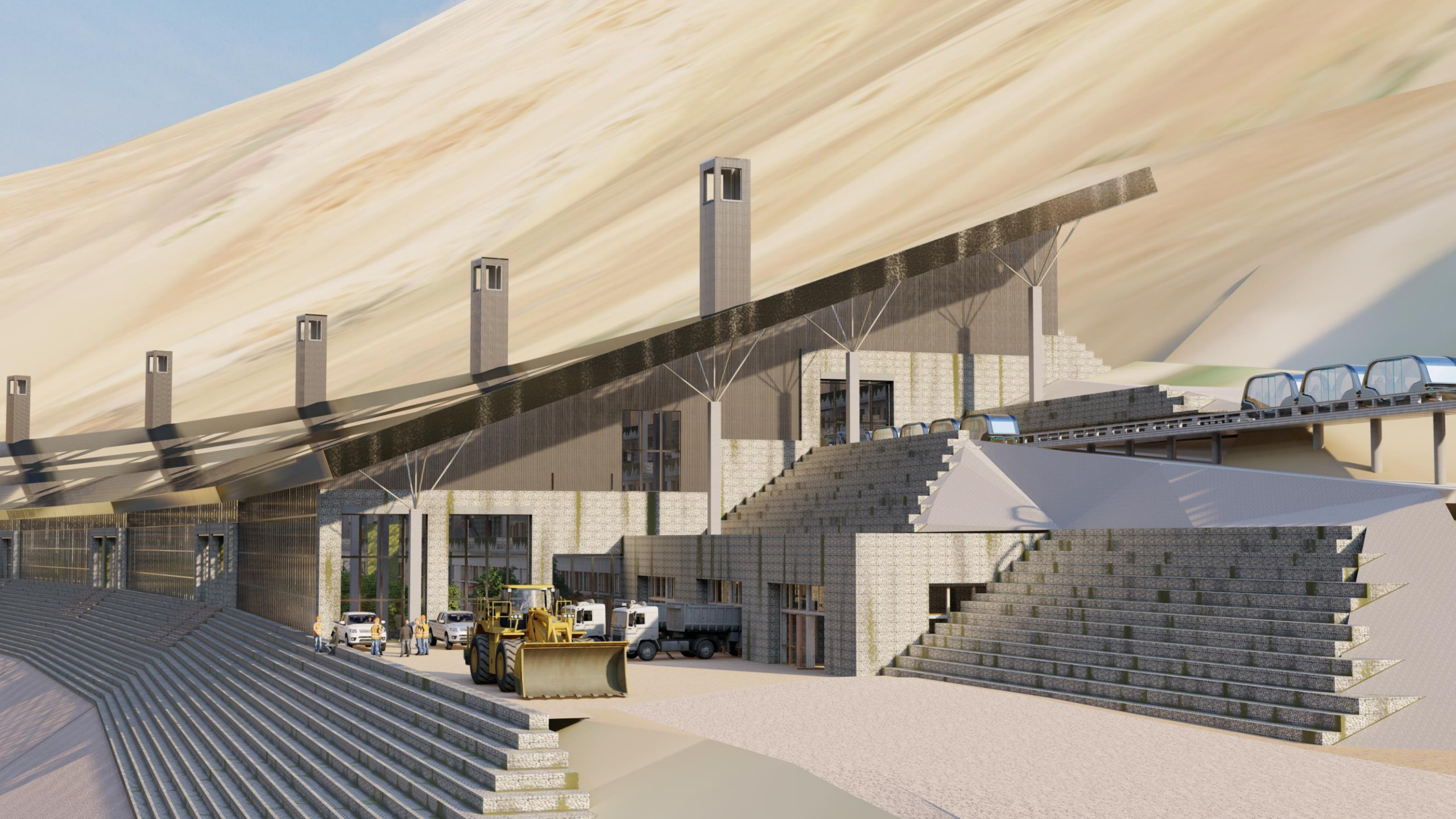
- Drawing on ancient techniques for Natural Ventilation
- Heat stack effect for passive cooling
- Earth tubes






COMMUNITY ZONE
· MESS HALL · FITNESS
· MEDICAL · COMMUNITY
NEIGHBORHOOD ZONES
· LIVING UNITS
CORE ZONES
· STAIRS
· LIFTS
· BATHROOMS
BIOSPHERE ZONES
· FOOD
· WATER
· HABITAT






CENTRAL PLANT · HVAC · WATER FIRE ·
WATER TREATMENT
EARTH TUBES & VENT TOWERS
VEHICLE ALLEY & REPAIR BAYS
STORAGE/SUPPLIES
FOOD PRODUCTION
SUPPORT SYSTEMS
Recreation

LOWER LEVEL


L4
L3
cafeteria

Food Systems

The McEwen Solar Biosphere

Investor Vision
Social License
Recruitment Tool
PR /Marketing Magnet

The Greenest Copper in the world - where workers are taken care of….

CALINGASTA Logistics Center

MCLENNAN DESIGN

Concept Design Ideas


Panguecillo
El Maitén
Las Varillas
Las Ramadas
LOS AZULES MINE
Castaño
Castaño Nuevo
Villa Nueva
Puchuzun
Bella Vista
Villa Corral
El Barrialito
La Isla
Tamberías
Hilario
Sorocayense
Calingasta Camp
412
149
406
12

CALINGASTA CAMP
EXISTING BUILDINGS

Calingasta Camp Existing Buildings

Mine Camp Economics

Everything but super roof is in budget
Super Roof - OPX Reduction
-Holistic ROI Process - people costs

The Greenest Copper in the world - where workers are taken care of….

A pioneering, holistic, and humane habitation for miners.

Los Azules Mining Village imagines how we could build and live in remote, harsh, and desolate locations and provide humane and holistic living conditions for people and place. It is designed to take advantage of modularity, local materials, and strategic sustainability systems that result in a robust environment for living, growing food, and energy and water self-sufficiency for remote locations.

The World's Greenest Mine - A Regenerative Approach to Copper Production

- Dwelling spaces for 1,000 + miners
- Terracing the hillside with solar orientation
- Units built with modular, flat packed, pre-assembled structure for easy install and deconstruction
- A unifying "super roof" built with modular space frame and tensile structure technology to result in a controlled greenhouse environment
- Greenhouse space can be used to supplement food, create habitable living conditions, and reduce exposure to harsh climate and seasonal storms
- Adequate space for services that support 1,000 people and ongoing mining operations, maintenance, and equipment servicing
- The layout encourages and provides a regenerative environment for miners to live in when off shift
- Transportation to-from mine and mill on solar - electric trolleys
- Village to be built with as natural, local, and available material such as gabion blocks, wood, straw bale and stabilized earth floors.

A complete village for living contained under one unifying solar roof biosphere.

Communal health & wellness, dining, rest and relaxation, and operations services in a central plaza zone.

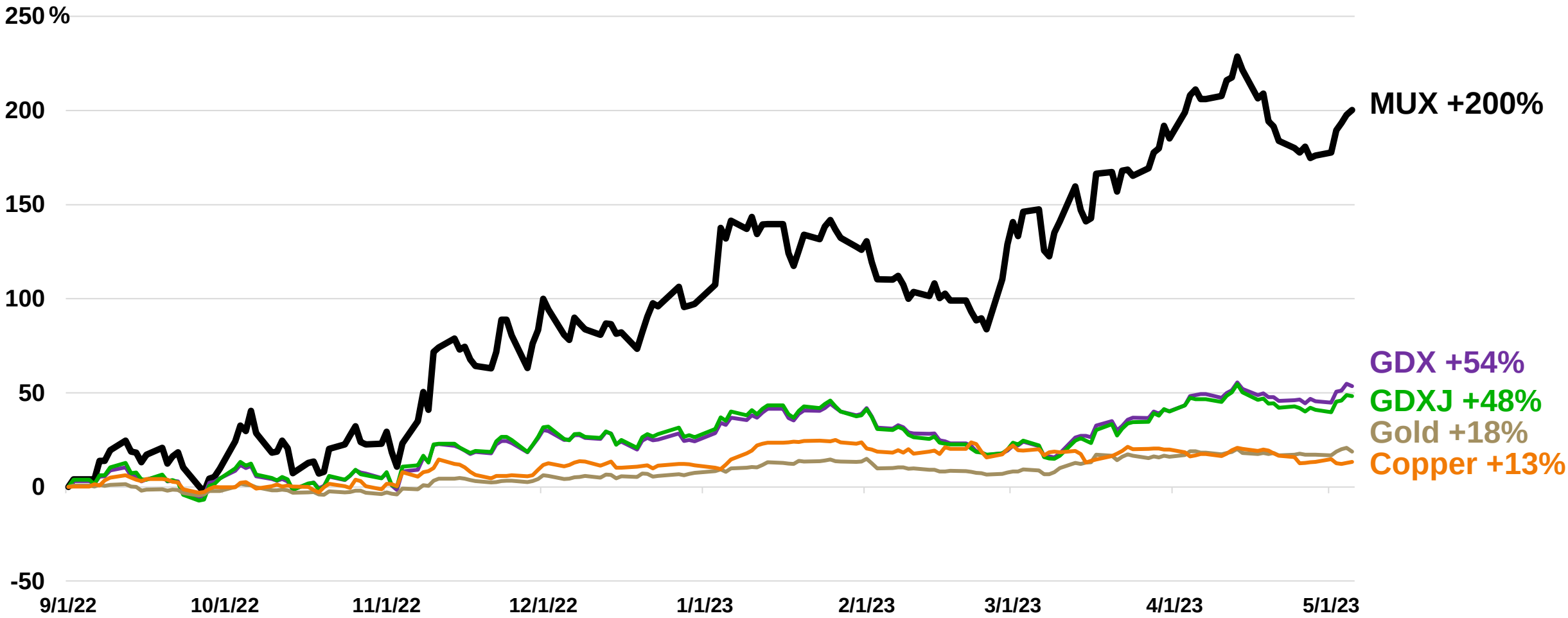
Village will integrate passive heating and cooling features such as air cooling towers.

Operations, maintenance, and vehicle corridors will be serviced in protected garages and tunnels allowing all-weather functionality.

An electric tram could take miners to and from mountain mining operations to station.

MUX vs Market

Sept 1, 2022 – May 5, 2023



Source: Bloomberg. As of May 5, 2023

An Idea to Help Change the Perception of Mining

Repurposing an unused site

NY SME'S 8TH ANNUAL CURRENT TRENDS IN MINING FINANCE CONFERENCE

Managing Risk and Identifying Opportunities in a Disruptive World - Where Finding, Financing and Securing Supply is Critical

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MAY 8 – 11, 2023