

# DISCOVERING THE MONUMENTS OF LIFE ON ANOTHER PLANET

— The Kepler Archive

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Kiruna

A Civilization Ruin Cast by Extraction and Subterranean Survival

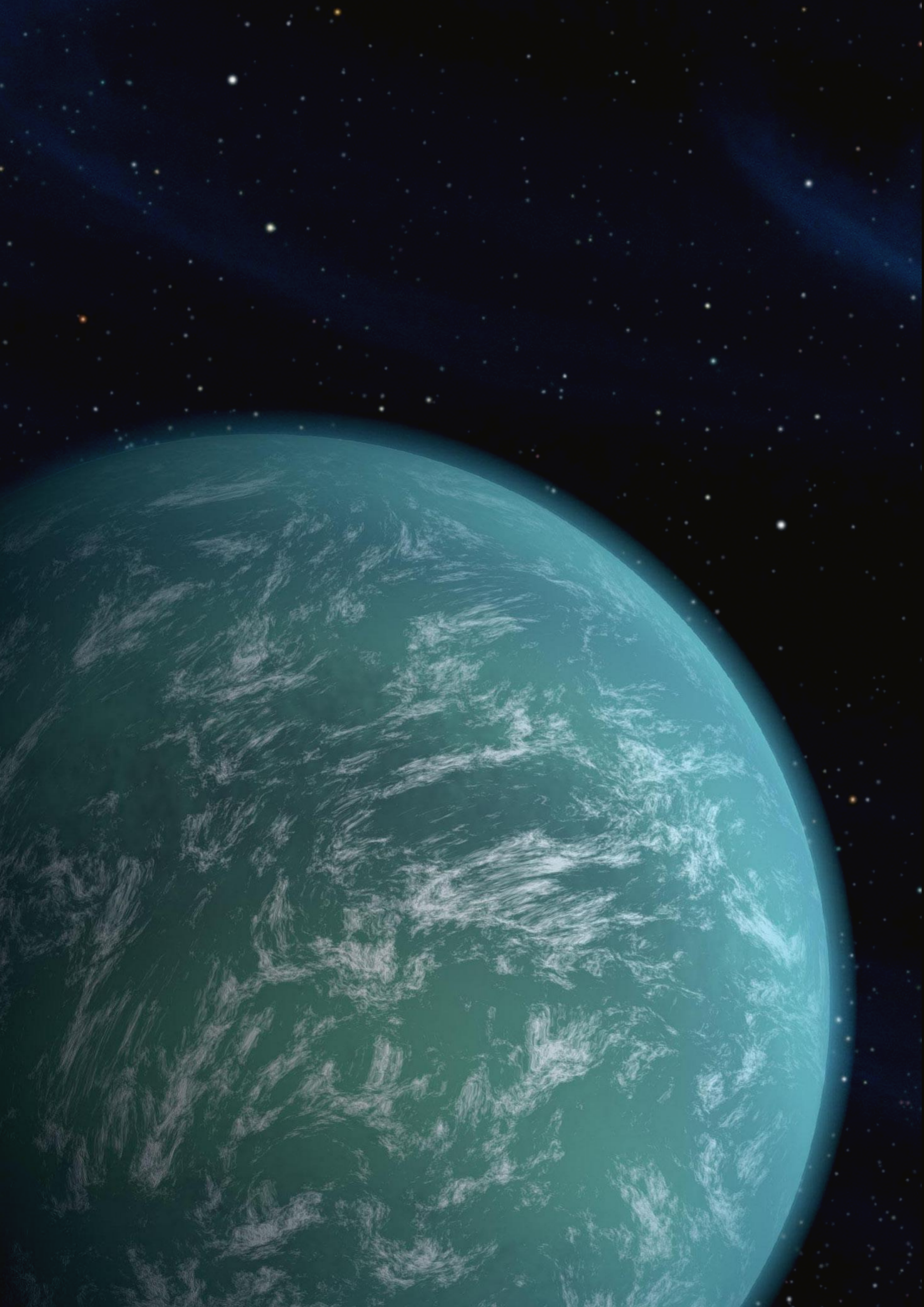
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We are from **the Kepler-22b** Interplanetary Archaeological Bureau.  
Our home orbits a pale-blue star,  
surrounded by endless silence.  
For generations, we have travelled among the stars,  
exploring planets that bear traces of life.  
Each world tells its story through dust and stone,  
preserving memories in the fragments of ruins and the quiet of matter.  
Within these remnants,  
we **search for the traces of life itself**  
how it is built,  
how it fades,  
and how it leaves behind monuments without names.

# MISSION FILE: KE-22B / 03

## WHERE

Planet: Earth (Third Orbit of Sol)  
Former Inhabitants: Homo sapiens  
Surface Condition: Unstable lithosphere; layered residues of industrial extraction; atmospheric contamination; decaying architecture.

## WHAT

The mission is to collect and decode material evidence of the Anthropocene — an epoch defined by extraction, production, obsolescence, and accumulation. Each fragment of matter reveals a transformation of purpose: from resource to artifact, from utility to residue. Our task is to record these transitions, and to preserve the material memory of a civilization that shaped the ground beneath it.

## WHY

We come to explore, to understand, and to listen. In the silent terrains of Earth, we trace the continuum of extraction — a rhythm that once promised progress yet ended in exhaustion. Each layer of residue speaks of desire repeated without rest. Through studying these traces, we reflect upon our own path, hoping not to repeat the same cycle of creation and depletion.

## HOW

Our exploration will focus on two surviving sites, one shaped by extraction, the other by accumulation. These twin landscapes form a complete cycle of human behavior: the taking and the building, the hollow and the heap.

By collecting, comparing, and reconstructing their remains, we translate the stillness of the ground into a language of reflection, a monument to what once was, and a warning to what may come.



# FIELD LOG — INITIAL CONTACT

Earth Time Reference: A.D. 3129

Crew: 07 personnel

Upon arrival, faint atmospheric residues were detected along the third orbit of Sol.

Surface layers display complex artificial formations: fractured infrastructures, exposed mineral incisions, and synthetic strata interwoven with stone.

The exploration team successfully landed at 10:00 a.m. Earth time and initiated surface survey procedures.

## Everything leaves a trace.

This archive documents the reconstruction and commemoration of a vanished civilization — **Earth**. Through exploration, we speculate that it was a world shaped by **endless extraction**, where every trace became evidence of its own disappearance.

Through ruins, sediments, and fossils, we reassemble the remnants of that lost era. Each layer reveals not only the erosion of matter, but also the **residues of emotion and time**, memories engraved upon the skin of the planet.

This archive is both a record and a speculation, a reconstruction of disappearance, and a meditation on the nature of "trace."

## Discovery Log — Planet #E-03 / Earth

During the exploration of planet #E-03 (Earth), we detected extensive surface anomalies.

The most prominent traces indicate the existence of a civilization built upon Extraction, a system driven by the continuous removal of matter, energy, and meaning from its own foundation.

Their landscapes reveal a paradoxical order of absence and excess: vast voids carved by extraction, and monumental

strata formed through accumulation. Each act of production left behind layers of residue, obsolete infrastructures, exhausted mines, and synthetic terrains, constructing an artificial geology of their own making.

This civilization's core logic was one of self-consumption: every creation demanded depletion, every trace of progress inscribed another mark of loss.



# Recovered Visual Record

## Typology of Traces: Extractive and Additive

Compiled from fragmented imagery and geological scans recovered on Planet #E-03 (Earth).  
The following classifications represent two dominant forms of anthropogenic landscape transformation.

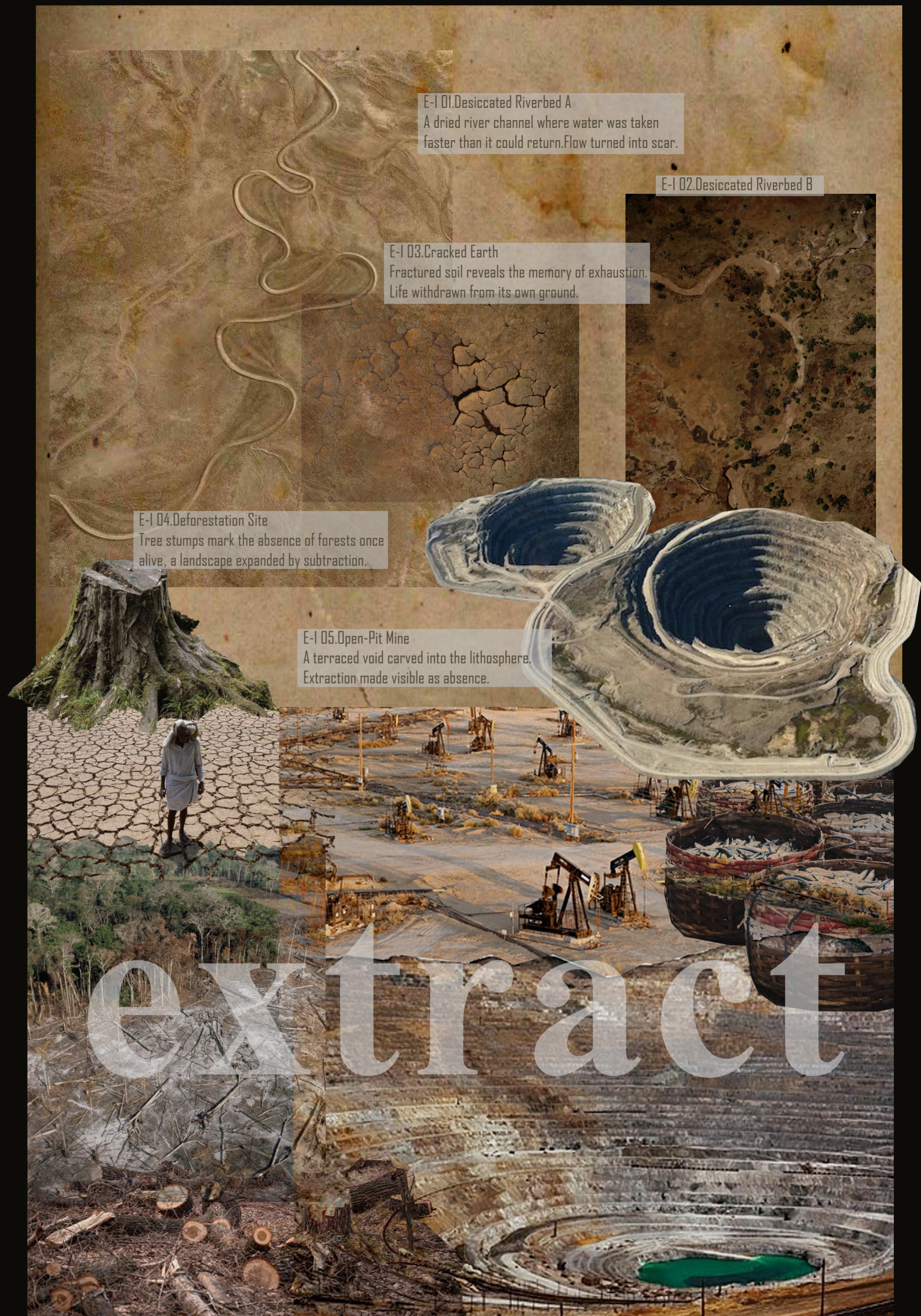
### Category I — Extractive Traces

Formed through acts of removal, depletion, and irreversible extraction.

These traces manifest wherever natural systems were diminished :  
in the voids of open-pit mines, the absence of forests,  
the collapsed fisheries, and the dried riverbeds where water once flowed.  
Each mark signifies a subtraction from the planet's living network,  
a moment when growth was achieved through loss.

Extraction was not limited to minerals;  
it extended to every form of resource — biological, hydrological, and emotional.  
What remained were patterns of scarcity,  
landscapes hollowed both physically and ecologically.

Classification based on indicators of depletion and the absence of regenerative processes.



E-I 01. Desiccated Riverbed A  
A dried river channel where water was taken faster than it could return. Flow turned into scar.

E-I 02. Desiccated Riverbed B

E-I 03. Cracked Earth  
Fractured soil reveals the memory of exhaustion. Life withdrawn from its own ground.

E-I 04. Deforestation Site  
Tree stumps mark the absence of forests once alive, a landscape expanded by subtraction.

E-I 05. Open-Pit Mine  
A terraced void carved into the lithosphere. Extraction made visible as absence.

extract



# Analytical Summary of Visual Records

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## From Typology to Curiosity — On the Lost Civilization Built upon Extraction

Through the classification of traces, we have identified two dominant tendencies within this civilization: to hollow and to heap.

Extraction and accumulation formed a continuous cycle,

matter taken from one layer reappeared as residue in another.

This motion of taking and adding became the underlying rhythm of the Anthropocene.

As the archive deepened, these patterns were no longer abstract theories, but geological evidence embedded in specific locations.

Each site stands as a microcosm of this cycle,

a place where depletion and accumulation coexist.

Yet, upon observing these vast surface scars and layered residues,

we developed a sense of curiosity toward this lost civilization built around extraction: How did they once live?

And what led them to their eventual decline?

In the following archives, we present detailed records from the exploration of Planet #E-03 (Earth), focusing on two sites deemed the most distinctive, representative, and symbolically resonant among the remains. Each reveals a different yet interconnected form of ruin,

together exposing how a world founded upon extraction left behind its layered memories in matter and debris. These remnants not only bear witness to their existence, but also provide crucial references for reconstructing and reimagining the history of this once-flourishing civilization.

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**Field Archive #E-03**  
**Site-01**

**Kiruna**

**A Civilization Ruin Cast by  
Extraction and Subterranean  
Survival**

## Field Record 01 / Initial Observation Planet #E-03 / Site-01: Kinari Pit

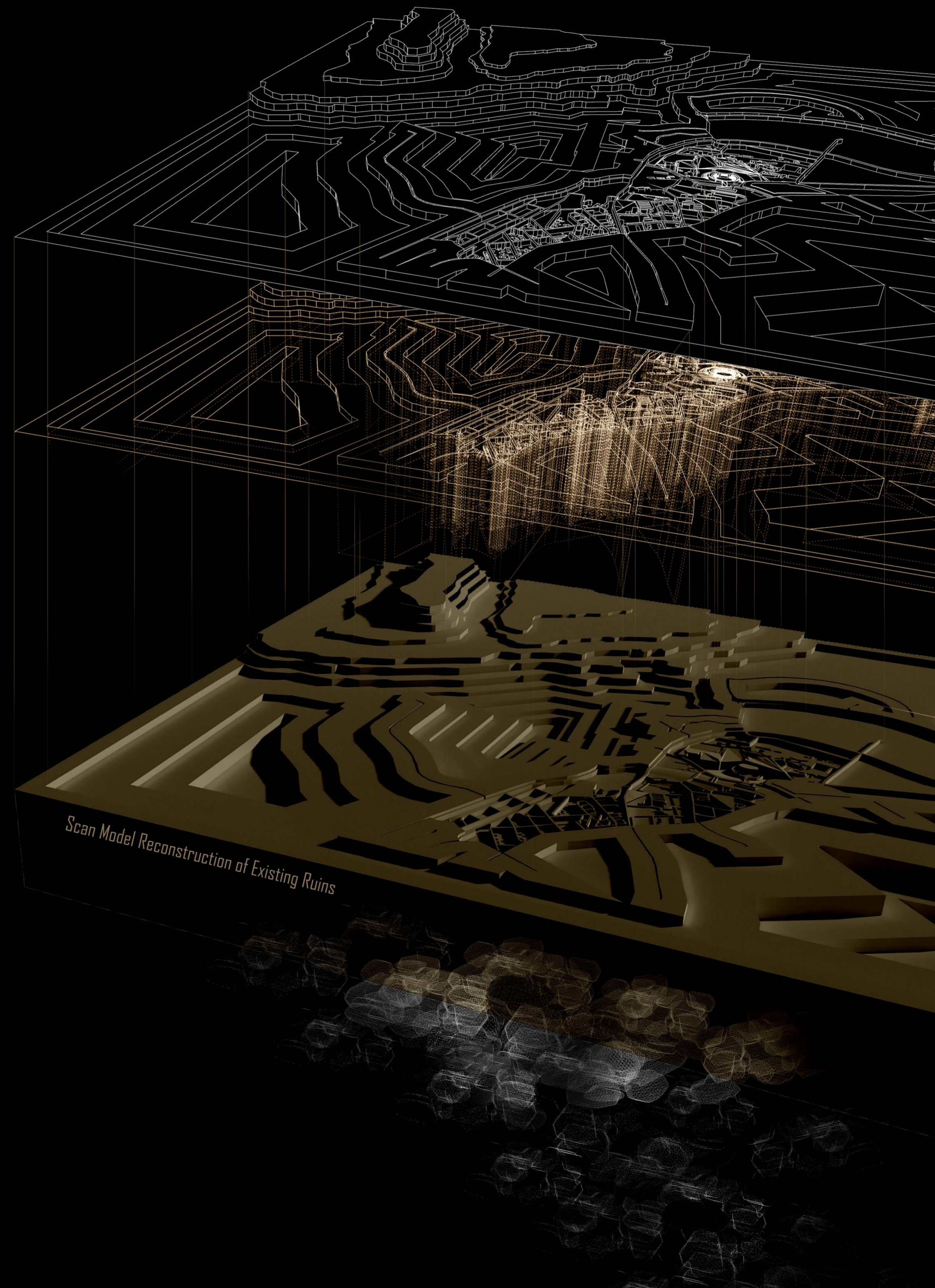
This entry documents the first visual and spatial observation of the Kinari site.

When the exploration unit first reached Kinari Pit, the terrain appeared almost unreal :Huge terraced pits and layers of earthen hills, slowly carved by erosion and time. Across its surface, the large-scale traces of former extraction activity remained faintly visible. From the ground, the outlines of an inverted city could still be discerned:grids, cavities, and fractured boundaries suggesting that the structures once standing above now persist within the Earth as negative forms.

Preliminary scans revealed that beneath the urban remnants,

a relatively complete spatial framework was preserved : possibly the remains of a dense settlement. Although the deeper layers were not yet accessible at this stage, the detected spatial patterns suggestedthe existence of a more complex subterranean system , a structure of survival and reconstruction.

These discoveries prompted further exploration , an attempt to trace how a city built upon extraction ultimately became the monument of its own decline.



# Surface Remains Investigation

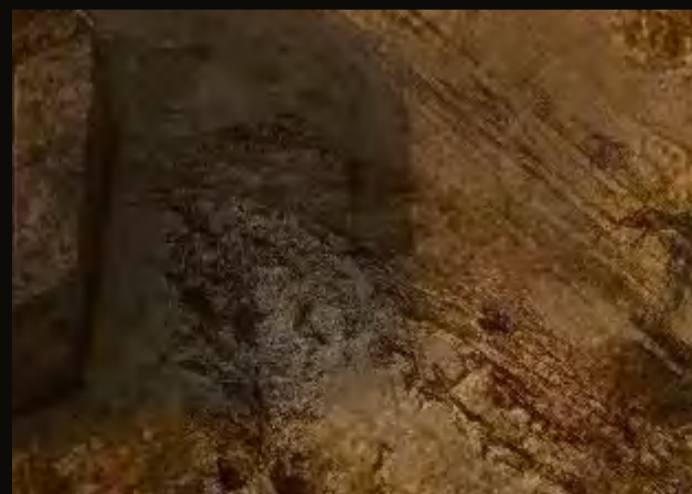
The excavation unit documented a large exposed structure at the center of the Kinari surface. Its scale and preservation suggested this area once served as the civic core — a shared space of gathering, transit, and extraction. Fragments of this surface reveal more than ruins: they are residual maps of a vanished social system.





Remains of urban foundations

Grid-like bases and fractured voids indicate remnants of former urban structures. These negative forms outline the absent city



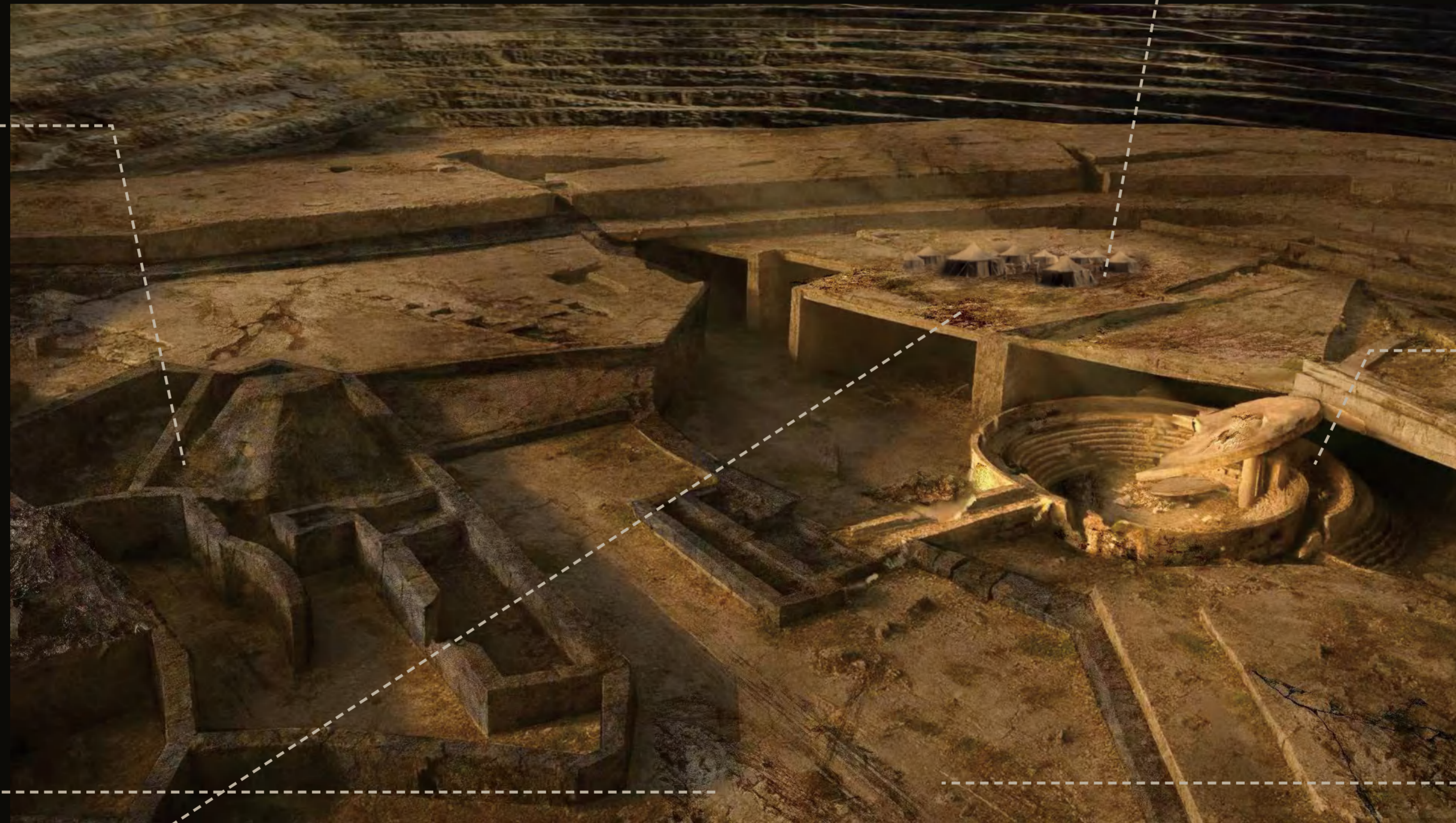
Traces of Marine Life

Traces of fossilized marine organisms were found scattered among the surface ruins, suggesting that the site once experienced contact with seawater or shifting coastal conditions. Further analysis is required to determine the origin of these biological remains.



Track Impressions

Distinct wheel-like marks appear across the site and even within fossil layers. They may indicate past transport activity, though their exact function remains uncertain.



Access Tunnel

A preserved opening leading into the interior layers, suggesting access to subsurface living spaces.



Assembly Remains

Remnant of a circular open space, possibly used for collective gatherings or public rituals.

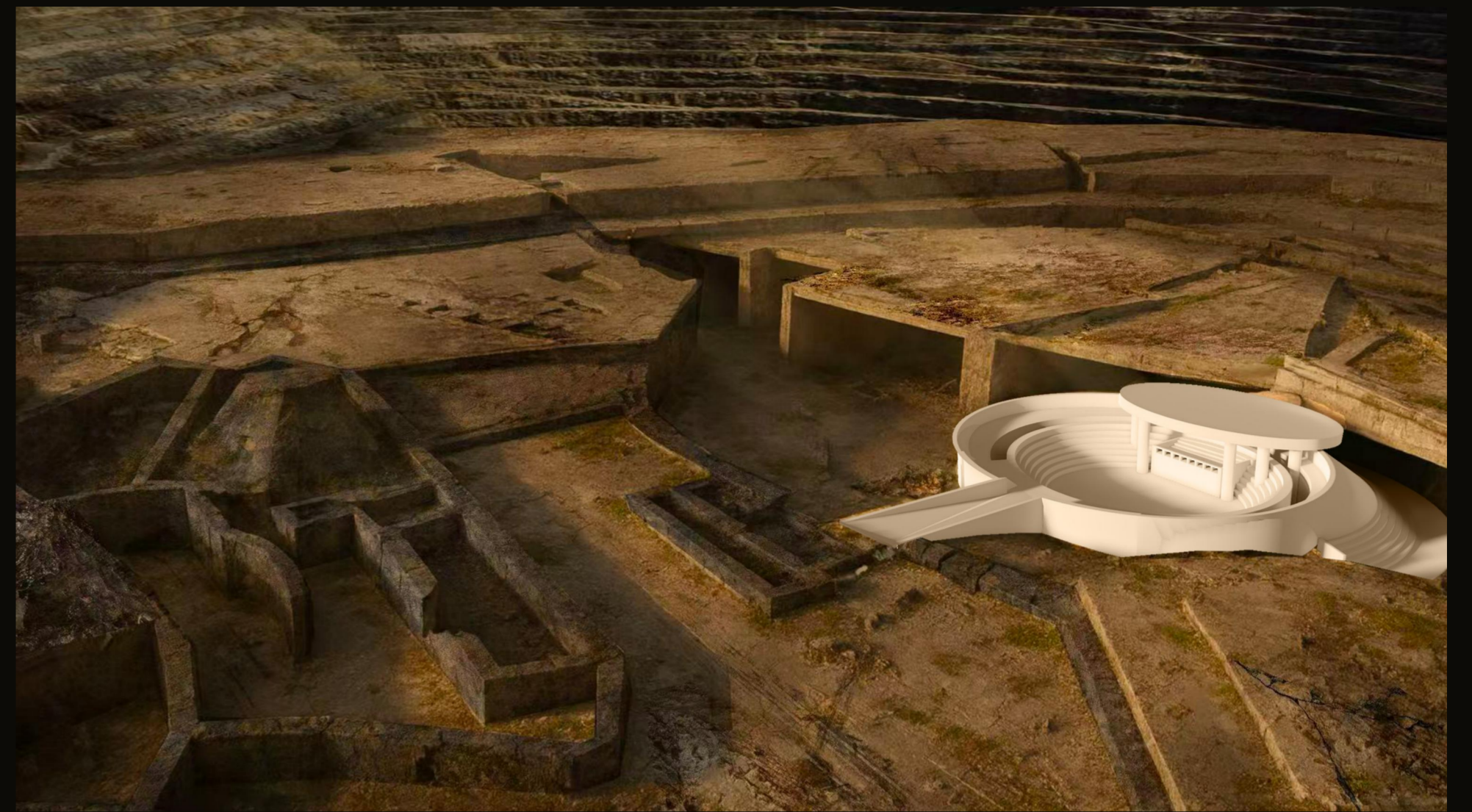


# Assembly Remains

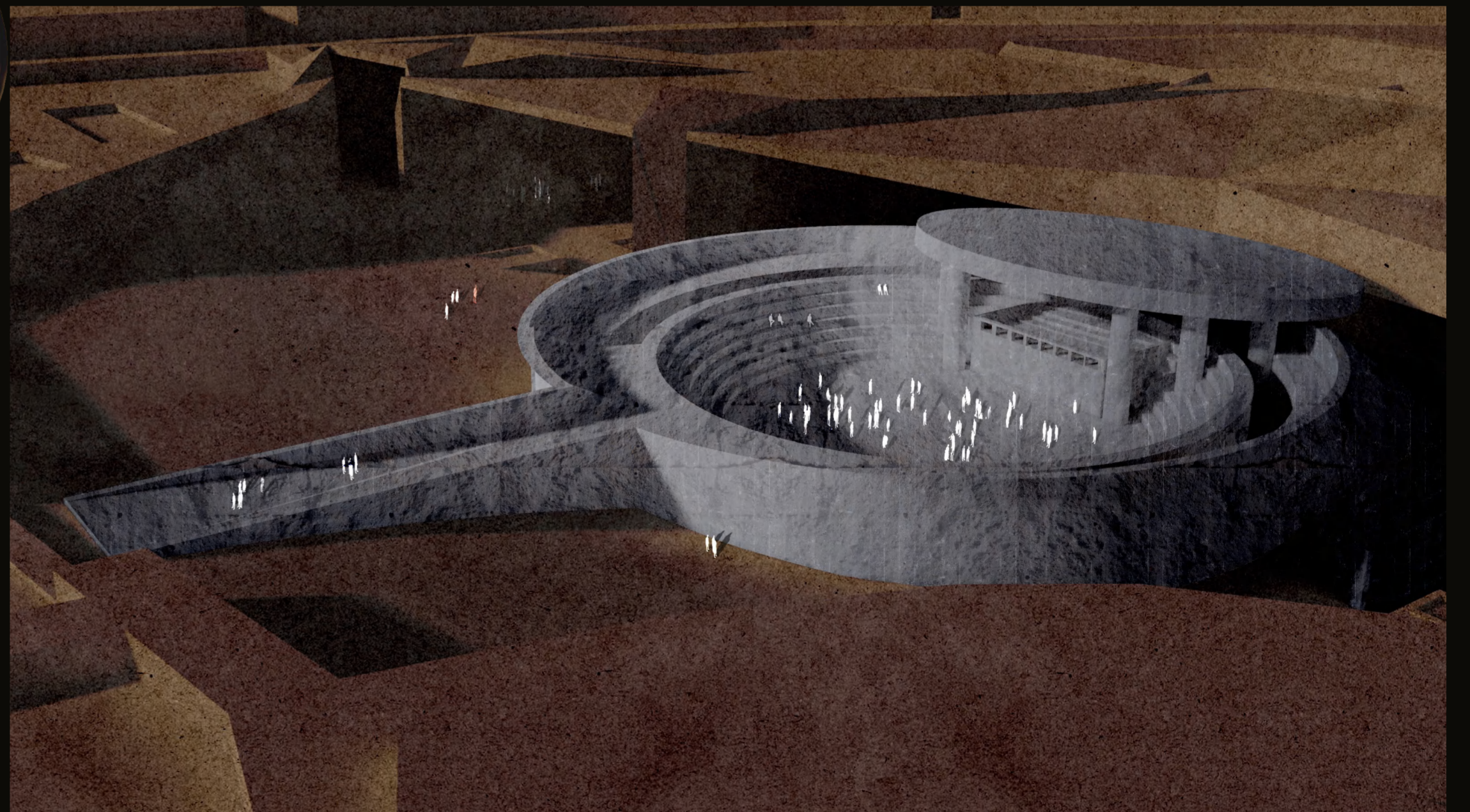
A circular open-space ruin is identified.

Based on preserved structural relationships, the scene is reconstructed as an open gathering ground—likely a communal plaza or ritual area. Surface weathering patterns indicate prolonged use over time.

It is further speculated that the place functioned as a civic node for assembly, ceremonial practice, or religious congregation—serving not only practical needs but also a symbolic center for shared belief.

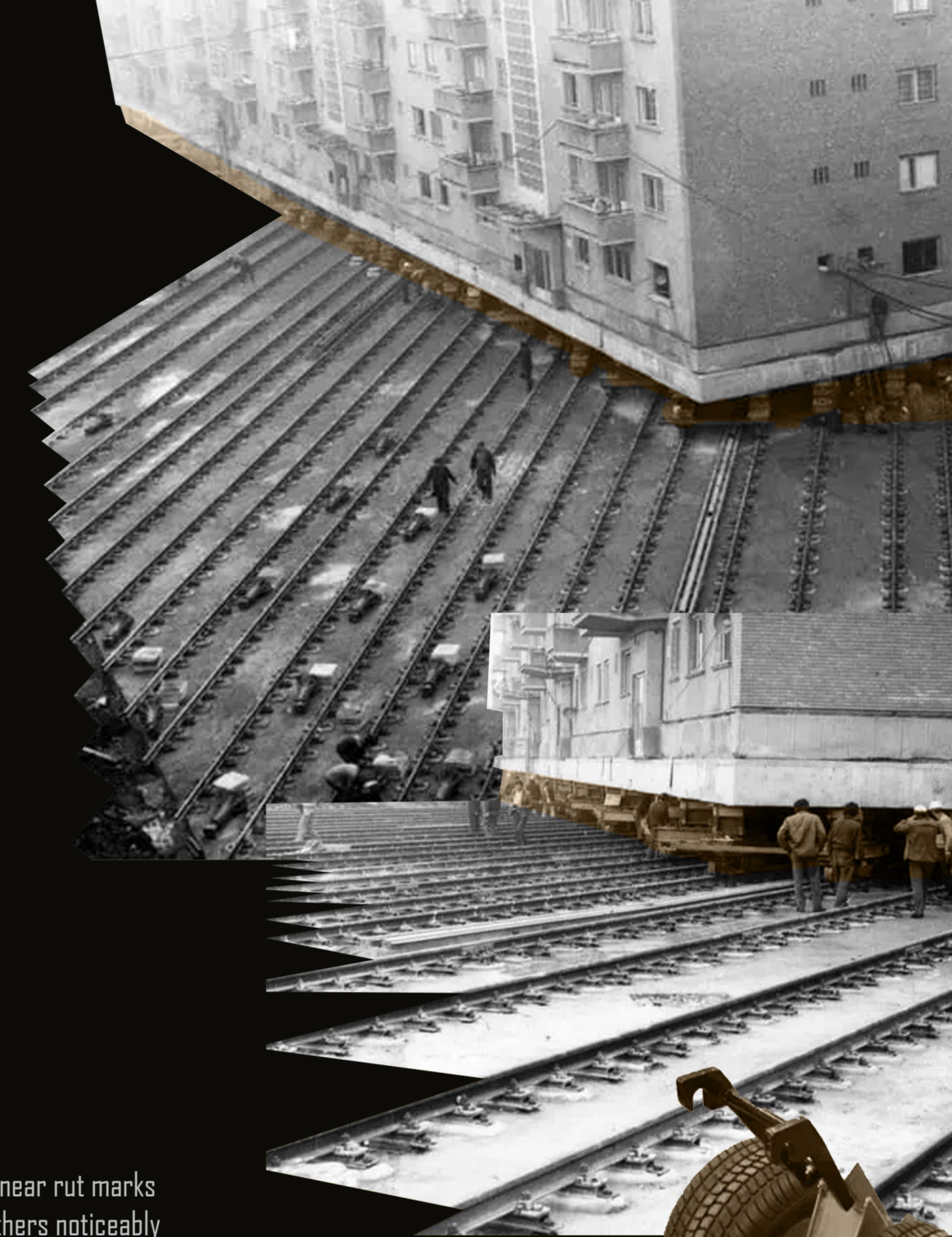


Reconstructed model of the assembly structure reinserted into the original site context.



Use scene inference graph

# Track Impressions



Across the exposed terrain, various types of linear rut marks can be observed, some shallow and regular, others noticeably wider and deeply embedded in the ground. Comparative mapping shows that while many of these tracks correspond to ordinary transport routes, a distinct set of broader and heavier traces often appears near the foundations of former residential zones. Their depth and parallel alignment suggest the repeated passage of large, slow-moving loads rather than common vehicles.

This leads to a reasonable hypothesis: beyond routine transportation, the settlement might have employed a wheel-based relocation system to move entire buildings. Collected visual references from Earth show examples of structures mounted on wheeled bases, supporting this interpretation. These traces may indicate that relocating architecture was a practical response to terrain shifts, erosion, or the movement of extraction zones.



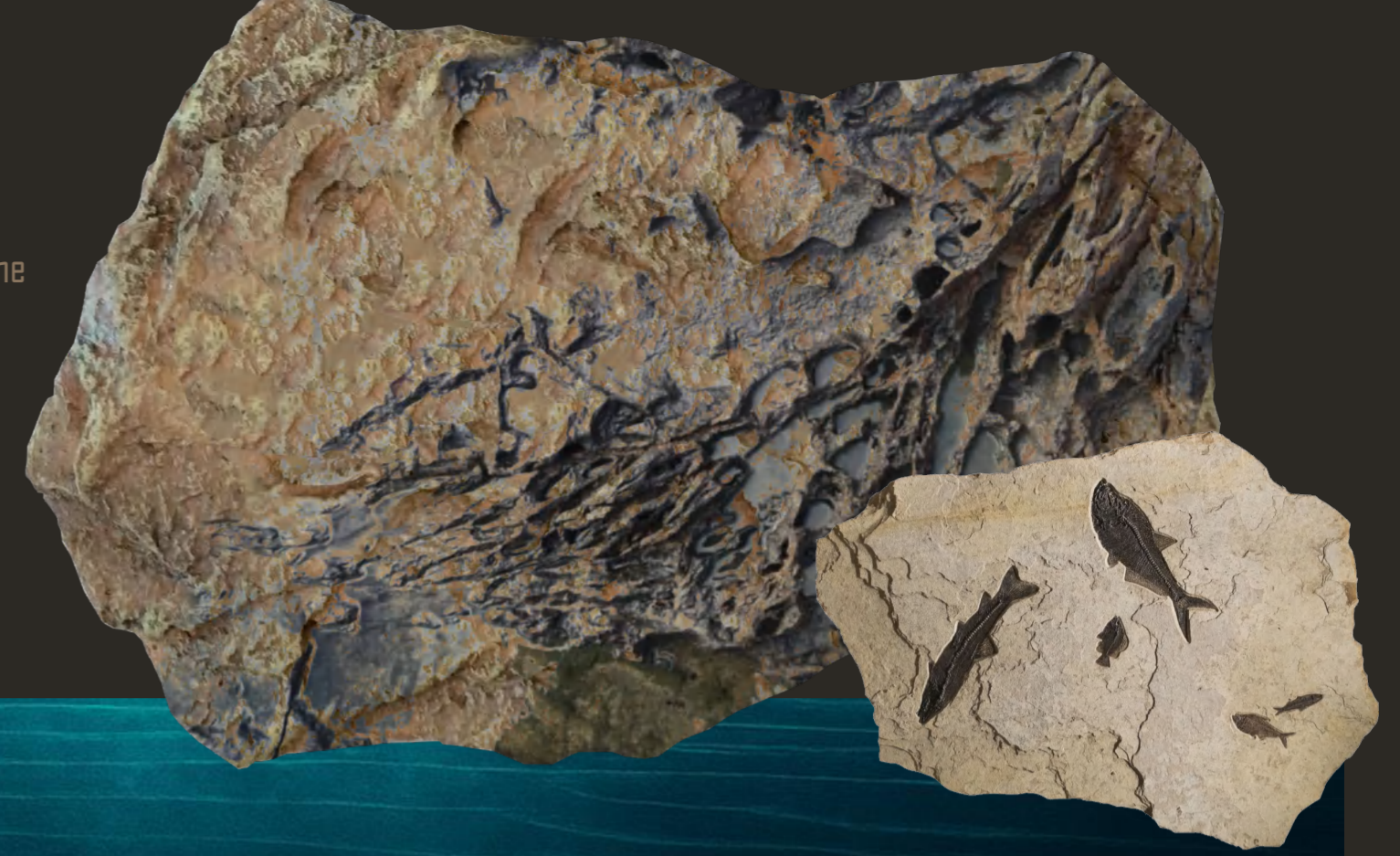
# Traces of Marine Life

Within several exposed layers, fragments of marine organisms were discovered embedded in the sediment, partially mineralized over time.

Their uneven distribution and varied preservation states suggest they were not part of the original strata but were deposited later through flooding or shoreline retreat. These remains may indicate that the site once experienced temporary contact with seawater, leaving traces of marine life now fossilized within the ruins.



Mineralized fragments showing marine erosion patterns, collected near the exposed sediment layer.



Hypothetical visualization of the site submerged under seawater

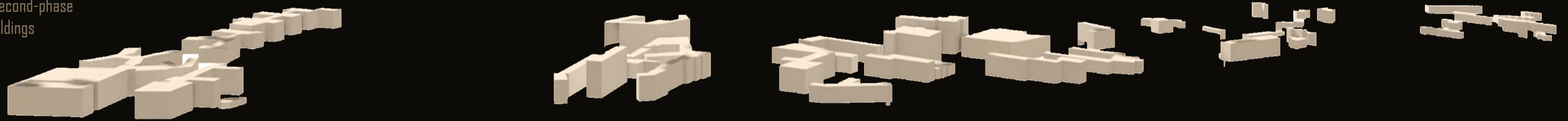
# Remains of urban foundations Surface Reconstruction

Speculative reconstruction of urban relocation based on foundation and mineral analysis, divided into three main phases of spatial transformation.

Speculated third-phase  
relocated buildings



Speculated second-phase  
relocated buildings



Speculated first-phase  
relocated buildings

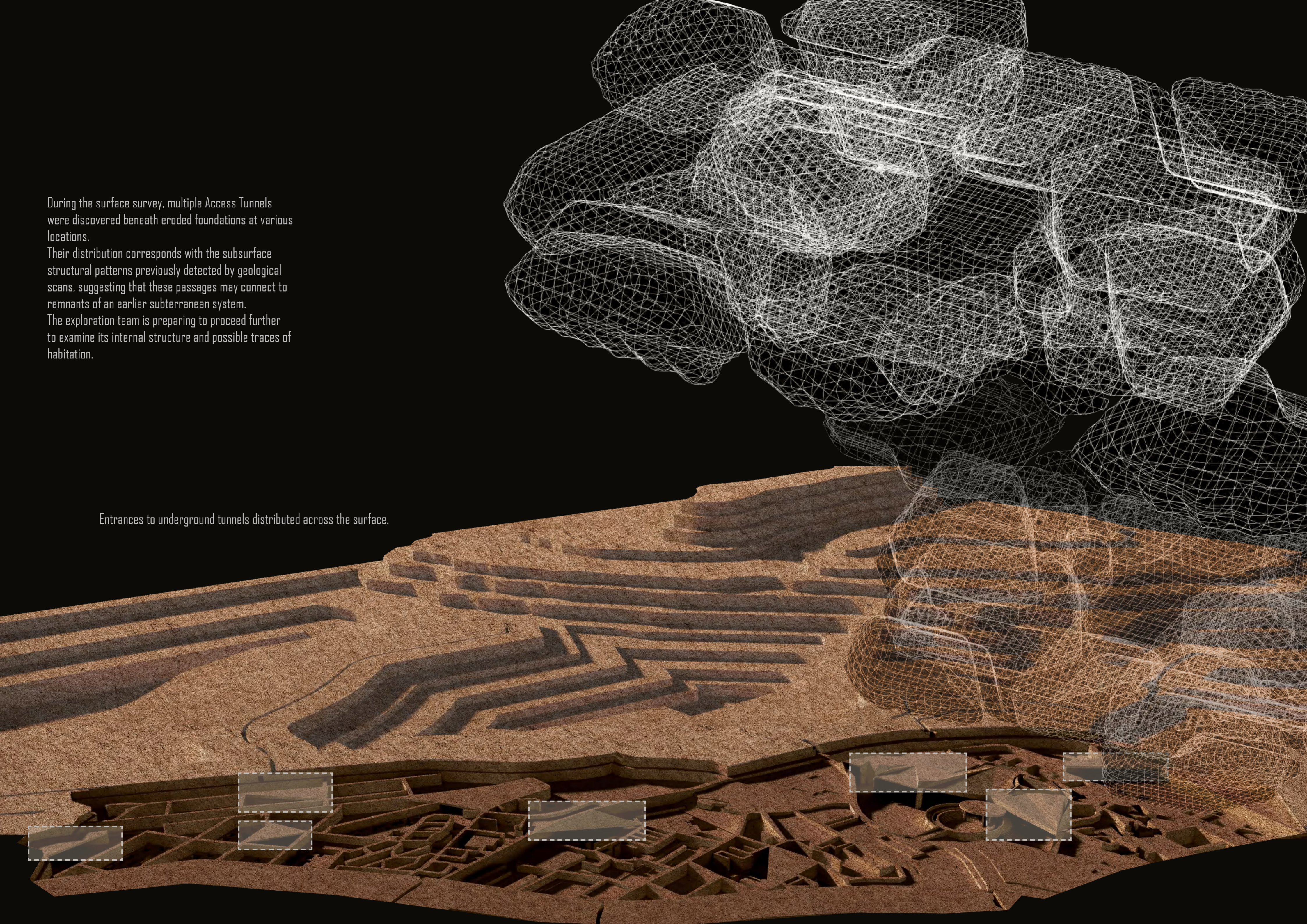


During the surface survey, multiple Access Tunnels were discovered beneath eroded foundations at various locations.

Their distribution corresponds with the subsurface structural patterns previously detected by geological scans, suggesting that these passages may connect to remnants of an earlier subterranean system.

The exploration team is preparing to proceed further to examine its internal structure and possible traces of habitation.

Entrances to underground tunnels distributed across the surface.



# Subsurface Investigation — Habitation Cavities

Through on-site surveys and local structural scanning, the research team reconstructed multiple spatial voids partially beneath the eroded industrial foundations. These voids are presumed to have served as residential units, with clear traces of material culture preserved in their sedimentary layers. The remains discovered include structures resembling metal furniture frames, fragments of storage containers, and some fossilized organic remains formed by long-term contact with

groundwater rich in iron and silicon. The distribution and material properties of these remains indicate that humans adaptively reused the excavated voids, allowing industrial remains and residential patterns to coexist in the same spatial system. These discoveries do not represent the end of the mining logic, but rather its continuation - proving that life continues to occupy and transform the strata shaped by its own excavation behavior.





Geological and climatic analysis suggests that prolonged surface instability forced populations to seek refuge underground. The subsurface offered stable temperature conditions, protection from radiation and atmospheric toxicity, and access to geothermal energy that could sustain habitation. It is presumed that miners, engineers, and displaced residents were the first to inhabit these tunnels, adapting abandoned infrastructures into modular shelters. Traces of ventilation systems, filtration units, and artificial lighting residues indicate deliberate conversion from extraction to habitation. This transformation reflects both the instinct for survival and a social reorganization around isolation, redefining the relationship between human life and the geological environment.

# Speculative Sequence of Civilizational Evolution Based on Material Evidence from Site-01 (Kiruna)

Following the exploration and material culture analysis of #E-03 (Earth) Site-01 (Kiruna), this Bureau has reconstructed a proposed timeline of evolution for the perished civilization. This sequence is not a precise chronology, but a logical model established based on stratigraphy, techno-typology of artifacts, and analysis of environmental residues.

Ruins themselves do not speak, but matter remembers time. Within Kiruna's interlaced mine tunnels and silent subterranean dwellings, we read not isolated events, but the complete trajectory of a civilization struggling for survival within a

predicament of its own making—a complete cycle driven by a logic of "extraction," progressively moving from surface prosperity to subterranean refuge, and ultimately towards silence.

This timeline serves as the reconstructed epitaph for this self-consuming civilization. It began with the extraction from the planet, and ended by being submerged by the planet's feedback. The following sequence presents the key stages from its resource transition to its final demise.

- 3029 | Arrival of the Kepler-22 Archaeological Bureau

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- 2200–2300 | Civilizational Decline into Silence

Although the subsurface systems were maintained for a time, broken resource cycles and collapsed social structures ultimately led to their demise due to seawater infiltration and geological shifts.

- 2150–2200 | Accelerated Sea-Level Rise

Polar ice sheets accelerated melting, seawater inundated most coastal and low-lying areas, and surface structures were gradually eroded.

- 2110–2150 | Formation of Subsurface Habitation Systems

Abandoned mines and tunnels were converted into living spaces, forming semi-enclosed survival systems exemplified by the "Kiruna Underground City".

- 2010–2050 | Exhaustion of High-Grade Ore

As high-grade surface iron ore was gradually depleted, humanity turned to deep-sea mining and polar resource exploitation in an attempt to sustain the industrial system.

- 2050–2080 | Rise of Deep-Sea Mining

Large-scale deep-sea mining commenced, triggering seabed instability, ecosystem collapse, and a gradual rise in sea levels.

- 2080–2110 | Surface Environment Deterioration

Extreme weather events became frequent, coastal cities suffered repeated flooding, and segments of the population began migrating into underground spaces or repurposed industrial facilities.

# Archive Record: Site-01 (Kiruna)

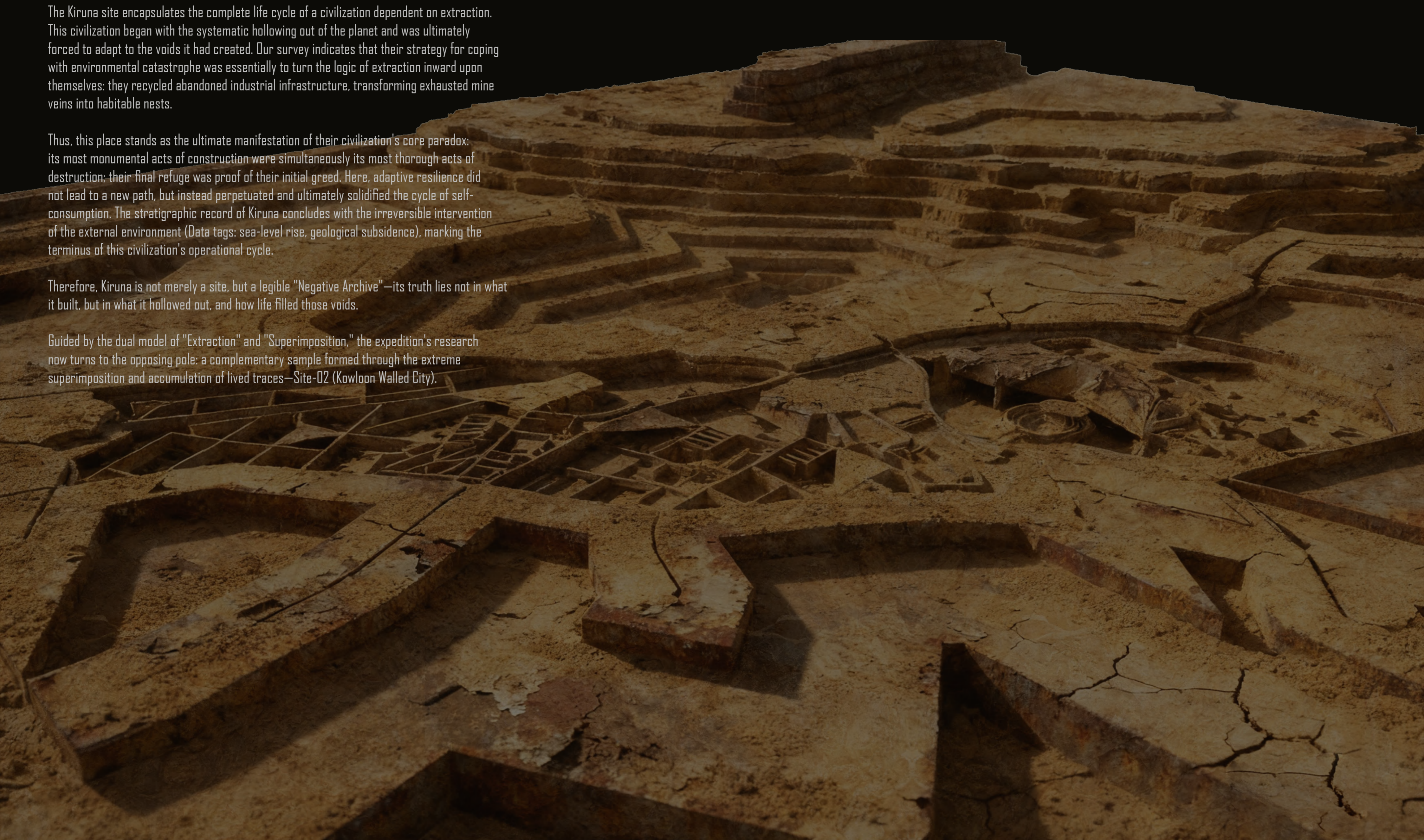
## Exploration Summary

The Kiruna site encapsulates the complete life cycle of a civilization dependent on extraction. This civilization began with the systematic hollowing out of the planet and was ultimately forced to adapt to the voids it had created. Our survey indicates that their strategy for coping with environmental catastrophe was essentially to turn the logic of extraction inward upon themselves: they recycled abandoned industrial infrastructure, transforming exhausted mine veins into habitable nests.

Thus, this place stands as the ultimate manifestation of their civilization's core paradox: its most monumental acts of construction were simultaneously its most thorough acts of destruction; their final refuge was proof of their initial greed. Here, adaptive resilience did not lead to a new path, but instead perpetuated and ultimately solidified the cycle of self-consumption. The stratigraphic record of Kiruna concludes with the irreversible intervention of the external environment (Data tags: sea-level rise, geological subsidence), marking the terminus of this civilization's operational cycle.

Therefore, Kiruna is not merely a site, but a legible "Negative Archive"—its truth lies not in what it built, but in what it hollowed out, and how life filled those voids.

Guided by the dual model of "Extraction" and "Superimposition," the expedition's research now turns to the opposing pole: a complementary sample formed through the extreme superimposition and accumulation of lived traces—Site-02 (Kowloon Walled City).



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Field Archive #E-03  
Site-02

**Kowloon Walled  
City**

A Civilization Ruin Imprinted  
by Superimposition and  
Communal Coexistence

## Field Record 01 / Initial Observation Planet #E-03 / Site-01: Kowloon Walled City Ruins

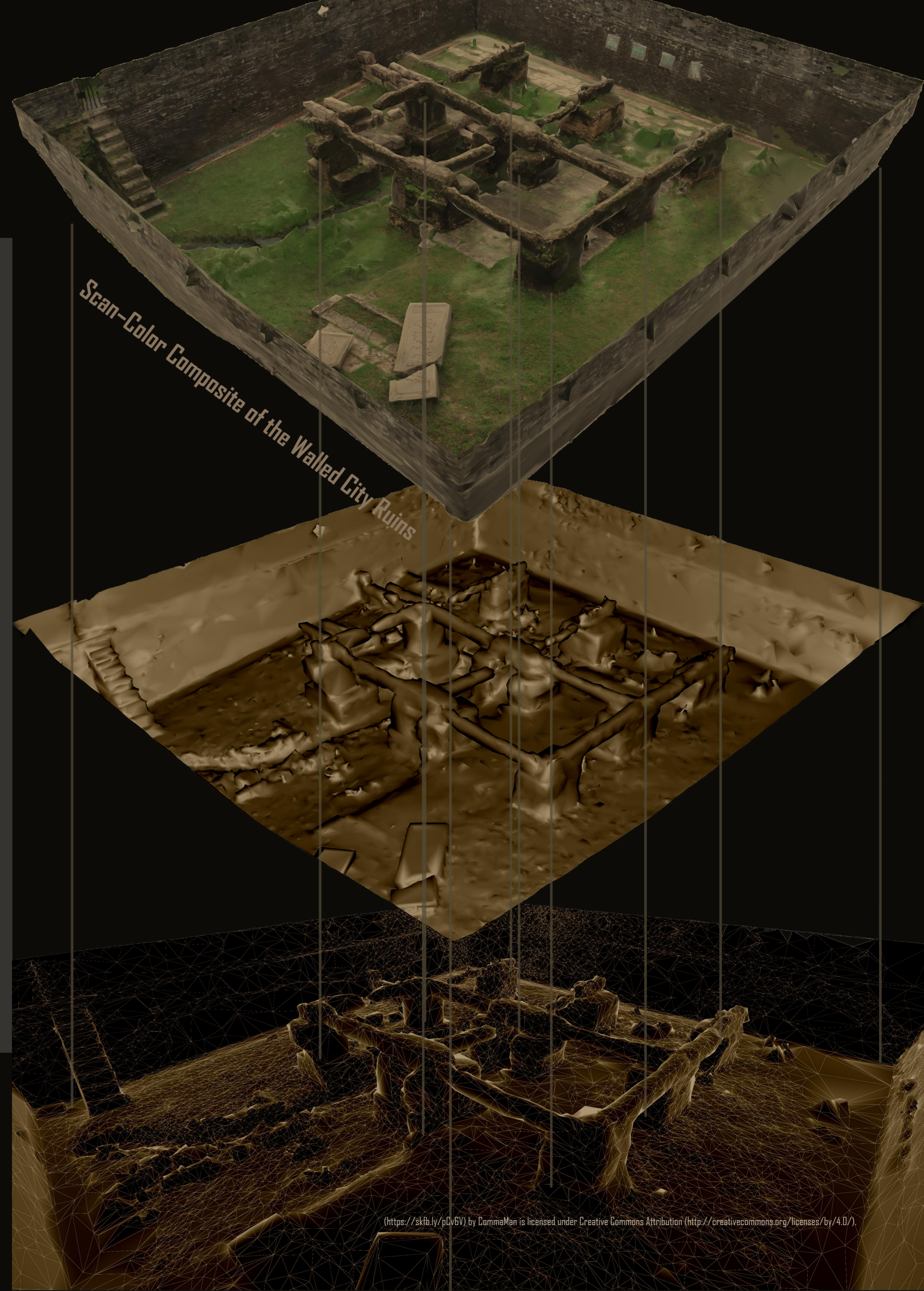
This entry documents the preliminary assessment and exploration of the site known as the Kowloon Walled City ruins.

The exploration unit has encountered not the legendary structure itself, but its successor: the archaeological park established after its demolition, now leveled and integrated into the sedimentary plain by subsequent marine erosion.

However, initial geological scans and targeted excavation have revealed a critical discovery: beneath the overburden, we have located preserved sections of the original Kowloon Walled City ruins—the very structures once maintained and displayed within this historical park. Our investigation builds upon the few discernible traces: residual foundations and axial anchor points. Combined with recovered visual references from the Anthropocene—fragmented imagery of elevations, alleyways, and overall building

appearances—we are able to undertake speculative reconstruction. The aim is not precise historical replication, but to restore a legible layering of traces and explore the underlying logic of human habitation.

Due to periodic inundation in more recent epochs, the peripheral and shallow sedimentary layers retain abundant traces of life. Various production and daily elements from the Anthropocene have been "geologized" through hydrological transport and redeposition, forming what we define as "Future Fossils." These do not point to specific individuals, but to enduring patterns of human behavior. Thus, the typical additive spatial configuration of an Anthropocene settlement and the sedimentary legacy of lived traces are read together on the same stratigraphic section.



# Remains Analysis



The excavation unit has uncovered a completely sealed early foundation structure beneath the surface sedimentary layer of the site. This area, covered by silt and clay, revealed traces of vegetation and soil composition consistent with artificial landscaping upon further investigation by the exploration team, indicating it was once used as a park. However, within a square enclosure beneath the park stratum, the team exposed an exceptionally well-preserved fragment of the Walled City's foundation.

The exposed foundation consists of square, modular structural units. Micro-trace analysis of the surrounding

sediments further revealed critical evidence: as periodic inundations occurred, materials from external living areas were hydrologically transported and deposited here. We detected high concentrations of heavy metal particles (zinc, lead, copper), degraded polymer granules, and unearthed various types of daily life element fossils at this location. These substances highly align with waste characteristics generated by intensive living and production activities. The density and diversity of material distribution indicate that this area was a highly active residential unit during the Walled City's existence.

Therefore, this foundation is not merely a historical relic beneath the park but direct physical evidence for interpreting the Walled City's original spatial and social structure. Its form, combined with the "life fossils" captured in the surrounding sediments, leads to the same conclusion: this land, later transformed into public green space and ultimately submerged in silt, was originally the core part of that densely lived structure, continually self-superimposing and growing inward.

# Speculative Spatial Logic

Based on the square, modular foundations and high-density material evidence uncovered during exploration, we have formulated initial speculations regarding its spatial logic. The grid of foundations established a replicable baseline plane, suggesting this civilization's architectural growth followed an inward-driven logic of accumulation centered on infill and connection. We hypothesize that the original structures first grew vertically along the foundational boundaries to maximize volume. Once vertical space was exhausted, new constructions began to encroach upon and link existing masses through cantilevering and bridging, gradually transforming open gaps into enveloped interior space. This process repeated

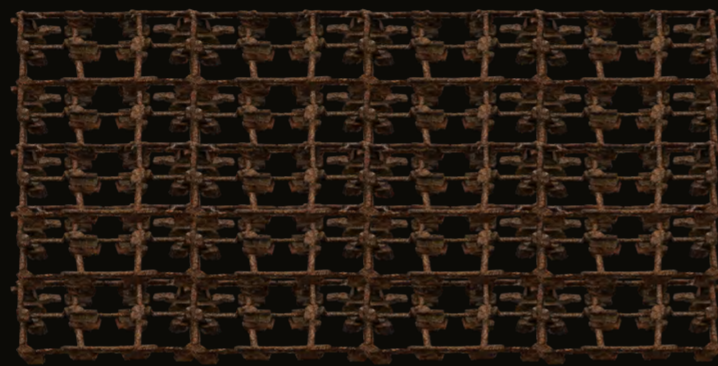
continuously, ultimately fusing individual architectural units into a vast, continuous, and highly complex aggregate. The entire structure thus grew from the outside inward, eventually presenting itself as an almost solid architectural landform composed of countless living cells and connective systems. This reconstruction reveals this civilization's unique spatial strategy for addressing growth demands within finite boundaries through continuous superimposition and organic connection—an approach to transforming density into structure that appears particularly distinctive within their known architectural record.



Foundational Remain Framework



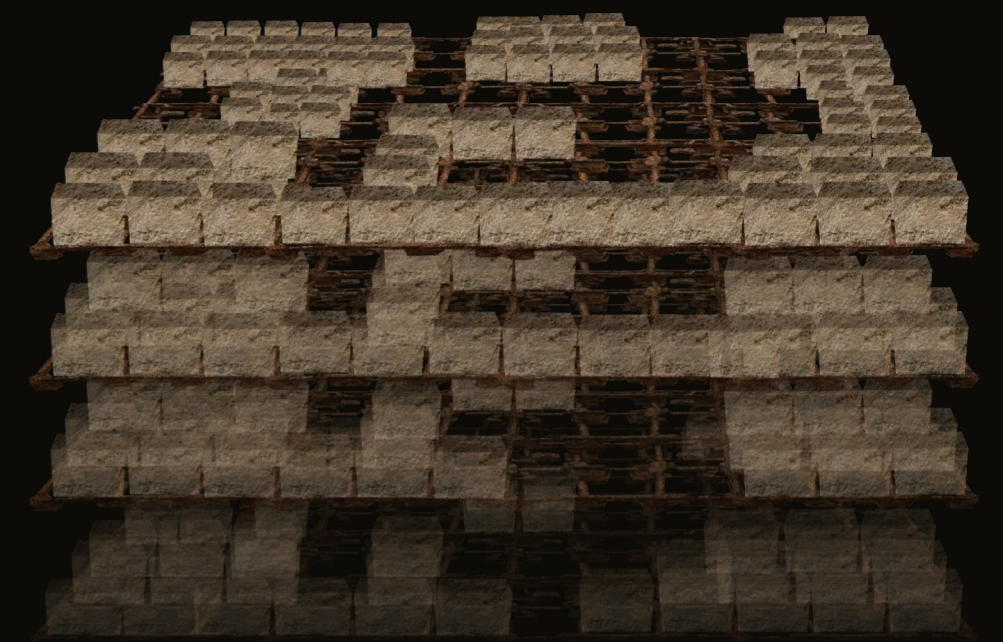
Modular Expansion



Datum Plane

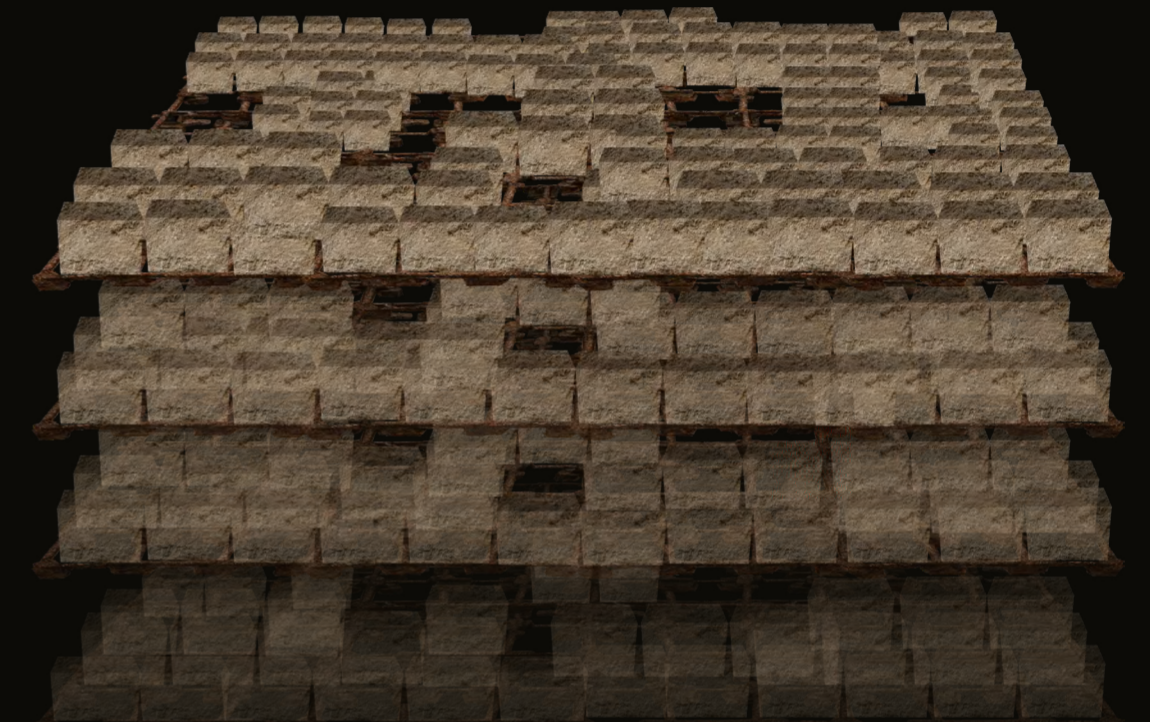


Vertical Habitation Expansion



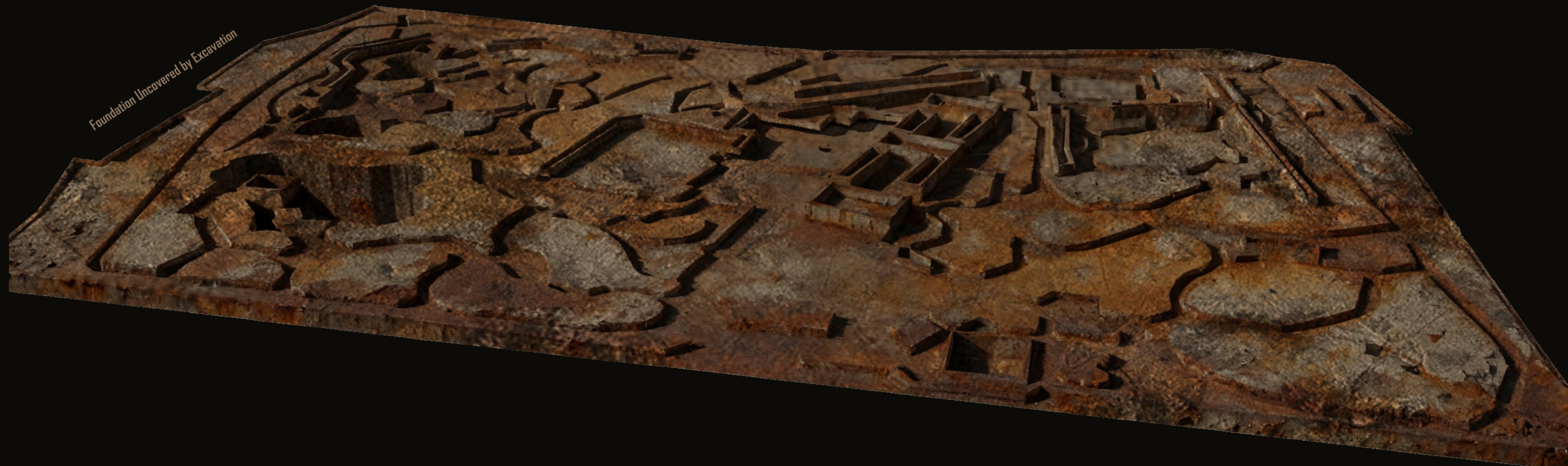
Expansion and Interconnection

## Speculative Evolutionary Sequence



Dense Habitation Structure

Foundation Uncovered by Excavation



# Visual Reference Verification

Following our preliminary spatial logic speculation, the team has successfully recovered a set of critical visual materials from the remaining digital archives of the Anthropocene, including early hand-drawn plans and multi-period satellite imagery. These image sequences broadly document the structure's complete morphological evolution—from initial settlement to extreme density, and finally to leveling—providing crucial spatiotemporal validation for our speculative reconstruction. The hand-drawn plans reveal its internal complexity resembling organic tissue, with intricate alley

systems and public nodes, while the satellite imagery confirms from a vertical perspective its accretion pattern of "inward filling" and "upward superimposition." These images not only corroborate the spatial algorithm we hypothesized based on material evidence but also endow this civilization's image with specific temporal dimensions and a dynamic developmental trajectory, advancing our reconstruction from a logical model to an evidence-based representation.



This image is reconstructed from a circa 1980s resident hand-drawn map recovered from Anthropocene archives. Its detailed rendering captures an interior street network as complex as a labyrinth, explicitly marking independent vertical access routes for each building structure, providing crucial reference for speculating on the internal connective logic of the architecture.



Earth, 1924, Image source: Survey and Mapping Office, Lands Department.

Earth, 1929, Image source: Survey and Mapping Office, Lands Department.

Earth, 1974, Image source: Survey and Mapping Office, Lands Department.

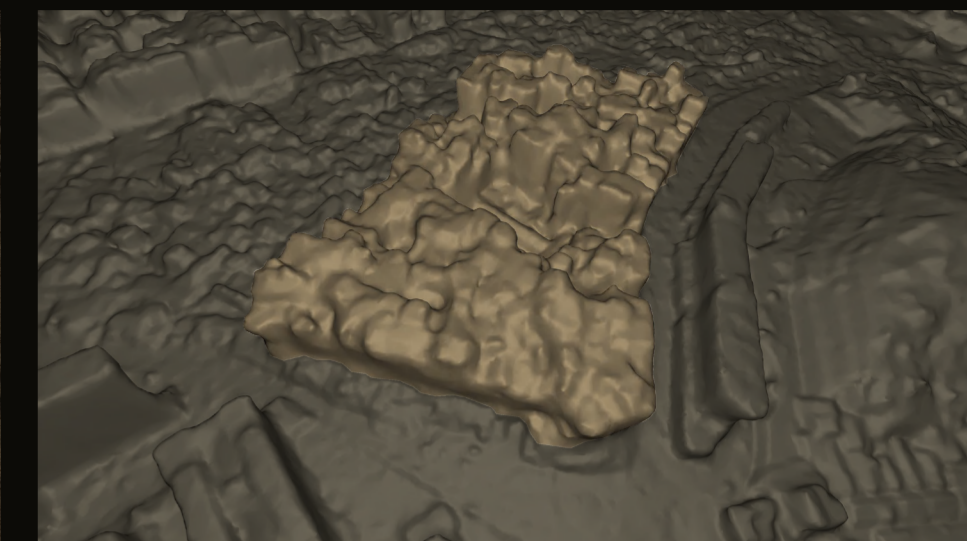
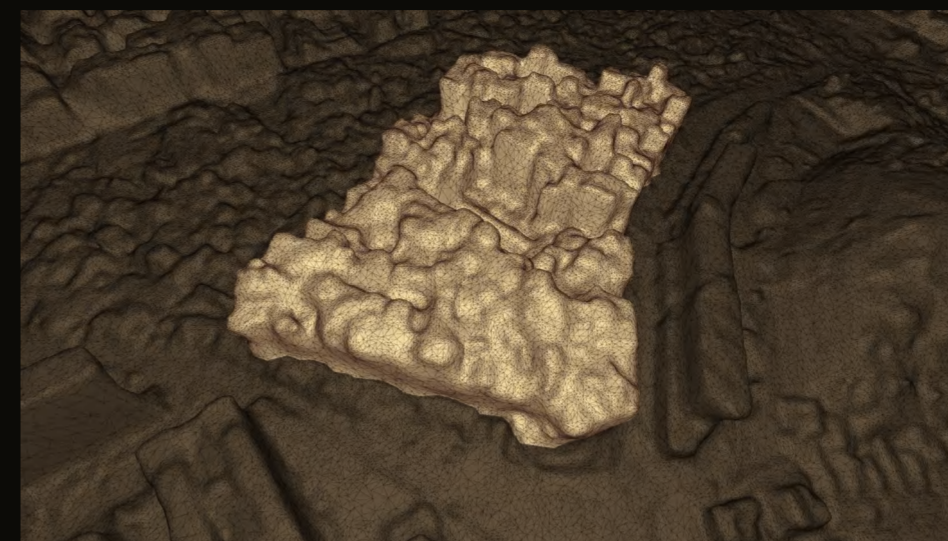
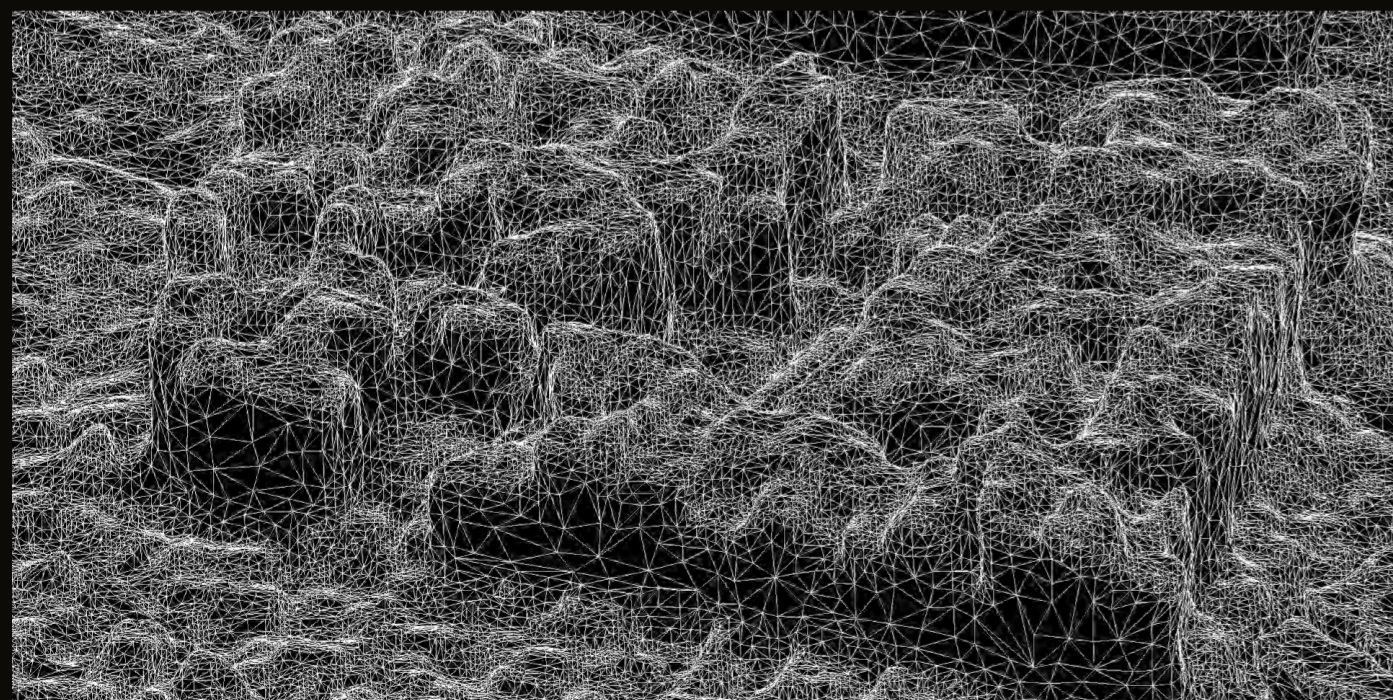
Earth, 1993, Image source: Survey and Mapping Office, Lands Department.

Earth, 2020, Image source: Survey and Mapping Office, Lands Department.

# Visual Reference Verification

Based on the acquired visual references and survey data, our team has constructed a structural digital model of the site. The model employs a linear framework to outline the overall spatial relationships and density distribution of the building cluster, followed by a massing model to approximate its volume and form. It clearly visualizes the Walled City as a continuous aggregate, making visible the complex interconnectivity of its internal structure and its tendencies toward upward and inward growth.

This reconstruction does not seek to achieve a precise replica of the original structure, but rather to integrate scattered material evidence—including foundation fragments and image remnants—into a measurable and analyzable three-dimensional entity. In doing so, it provides a systematic reference for understanding this civilization's unique approach to spatial organization. Ultimately, the model not only solidifies its formal characteristics as an “archetype of extreme density” but also re-superimposes those life traces once dispersed by hydrology and time into a legible, three-dimensional archive of collective existence.





# Archive Record: Site-02 (Kowloon Walled City)

## Exploration Summary

As the second systematic investigation site examined by the Kepler-22 Interplanetary Archaeological Bureau on Earth (Planet #E-03), the Kowloon Walled City ruins provide a unique sample for understanding early Anthropocene civilizational patterns. Investigation results indicate the site exhibits a distinctive survival paradigm under strict physical constraints: its spatial structure demonstrates clear "inward filling" and "upward accumulation" growth characteristics, forming a continuously self-aggregating architectural mass through persistent spatial compression and structural connectivity.

The reconstruction achieved through this investigation encompasses not just architectural form, but a materialized "archive of survival strategies." Life traces once dispersed by hydrology and time have been reintegrated by the expedition team's digital technology into an analyzable three-dimensional entity. This discovery confirms that even under severe environmental constraints, this civilization developed highly specialized spatial organization methods, transforming physical limitations into a unique architectural system.

Kiruna and Kowloon Walled City together form a complete spectrum of civilizational material circulation: the former

reveals a trajectory where continuous extraction from nature and relentless excavation led to self-hollowing, while the latter documents the process where inward and upward accumulation resulted in saturation. The materials hollowed out at Kiruna, as discovered by our team, ultimately found their destination here—transformed into building materials and production resources, forming this dense vertical settlement through continuous superimposition and construction. This process from "hollowing out" to "piling up" completes a full cycle of a civilization's extraction and transformation of its own planet. These two sites, in complementary fashion, collectively illuminate the profound connection between growth patterns and civilizational sustainability.

The value of this investigation lies not only in reconstructing the material form of a lost civilization, but in fully revealing the process of material metabolism between a civilization and its planet. These findings will be incorporated into the Bureau's "Typology of Civilizational Evolution" database, offering valuable historical perspectives for research on sustainable development of interstellar civilizations.

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# Archive Finale: Memorial Construct

A Composite Memorial Construct Based  
on Material Evidence from Site-01 (Kiruna)  
and Site-02 (Kowloon Walled City)

The end of exploration is not the accumulation of data, but the reification of understanding. It signifies the transformation of scattered evidence and traces of Anthropocene life into a commemorative form, legible to future epochs.

The "negative form" of Kiruna and the "positive form" of Kowloon Walled City together outline a self-portrait of a civilization. They tell two halves of the same story: extraction and accumulation, hollowing out and saturation, a downward force and an upward dream. Yet, when both parts of the story are read simultaneously, what emerges is not a duality of opposites, but a complete, cyclical system acting upon itself. The logic of this system itself constitutes its most lucid epitaph.

Based on this understanding, the expedition has created this commemorative structure. Serving as the physical culmination of this investigation, it aims to solidify the interpreted civilizational logic into material form, in commemoration of this unique, vanished civilization.

# Microscopic Evidence: Anthropocene Fossils and Traces of Behavior

The macro-scale systemic logic must be verified through micro-scale material traces. This page presents the actual "Anthropocene fossil" objects excavated by the expedition from sedimentary layers at both the Kiruna and Kowloon Walled City sites. These components of varying forms and materials are the most direct physical condensates of daily life from that period.

Through systematic analysis of their morphology, material, and excavation context, the expedition aims to translate these static "objects" into dynamic "evidence of behavior." These preserved traces of life function as temporal capsules, allowing the expedition to glimpse the concrete daily behaviors and practical logic of the Anthropocene. Each fossil represents a crucial facet for interpreting survival strategies and daily practices of that era.



KRN-IC7-003



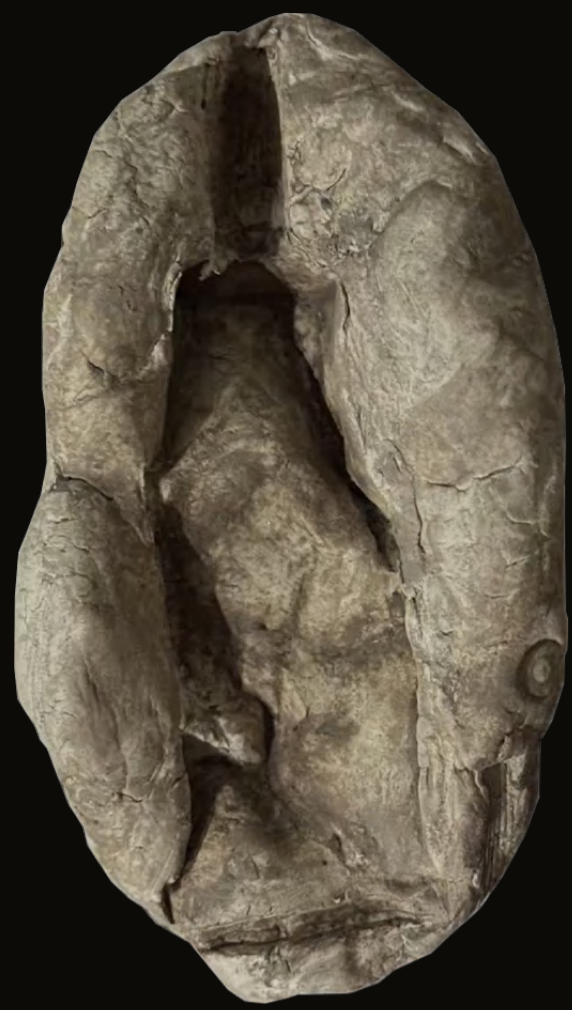
KRN-IC7-001



KKC-DT4-002



KKC-DT4-004



KRN-IC7-005



KKC-DT4-006



KRN-IC7-007



KKC-DT4-008



KKC-DT4-010



KRN-IC7-009



KRN-IC7-011



KKC-DT4-012



KRN-IC7-013



KKC-DT4-014



KRN-IC7-015



KKC-DT4-016



KRN-IC7-017



KKC-DT4-018



SPECIMEN ID: KRN-IC7-001

ITEM: Binary-State Actuator

GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2000 - 2040

COMPOSITION: Polymer casing, low-grade metal contacts, photodegraded plastic indicators.

LOCATION: Site-01 (Kiruna Subsurface Archive)

NOTE: A primitive interface component for manually switching between two defined states (commonly "ON"/"OFF" or "UP"/"DOWN"). Represents the fundamental human desire for direct, binary control over increasingly complex systems.



SPECIMEN ID: KKC-DT4-002

ITEM: Load-Bearing Articulation Joint

GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 1980 - 2020

COMPOSITION: Low-carbon steel alloy, zinc plating (partially degraded), polymer lubrication residues.

LOCATION: Site-02 (Formerly Kowloon Walled City)

NOTE: A mechanical interface enabling rotational movement between rigid planar surfaces. Its compact yet durable design reflects adaptation to densely built environments, with material degradation patterns documenting atmospheric pollutants and microclimatic conditions.



SPECIMEN ID: KRN-IC7-003

ITEM: Power Transfer Interface

GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 1995-2030

COMPOSITION: Copper conductors, PVC insulation (partially decomposed), brass contacts with oxidation patterns

LOCATION: Site-01 (Kiruna Subsurface Archive)

NOTE: Standardized interface for transmitting electrical energy to portable devices. The degradation pattern of the insulation material provides valuable data on polymer stability in long-term storage conditions.



SPECIMEN ID: KKC-DT4-004

ITEM: Pneumatic-Motion Module

GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2010-2045

COMPOSITION: PCB fragment, copper coils, plastic housing with stress fractures, corroded aluminum piston

LOCATION: Site-02 (Formerly Kowloon Walled City)

NOTE: An integrated automation unit combining computational control with pneumatic actuation. The distinct wear patterns on moving components document intensive usage in precision tasks, possibly for environmental control or robotic articulation in constrained spaces.



SPECIMEN ID: KRN-IC7-005

ITEM: Pressurized Viscous-Fluid Dispenser

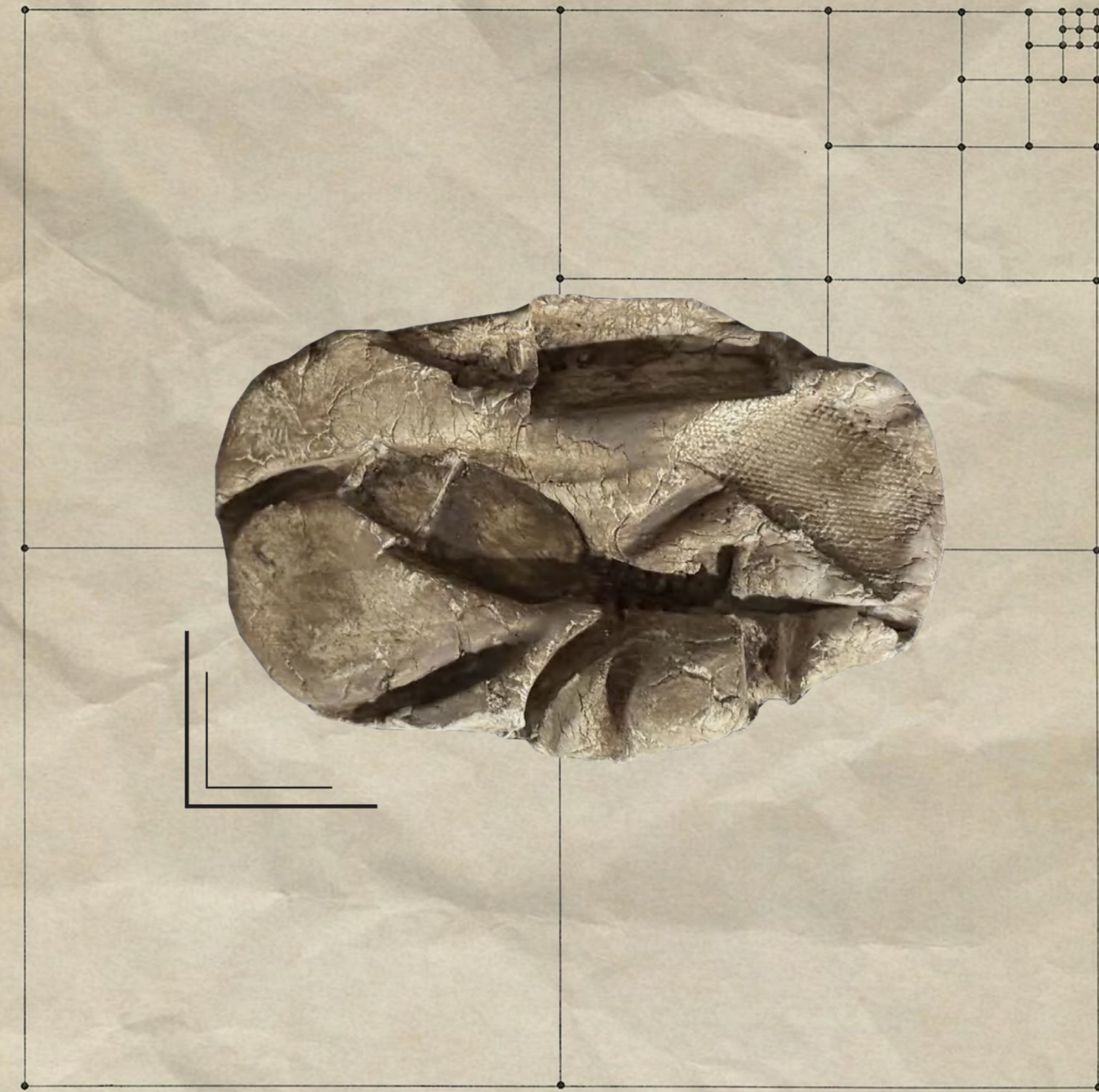
GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2005-2040

COMPOSITION: Laminated polymer sheets, aluminum foil barrier, residual organic compounds

LOCATION: Site-01 (Kiruna Subsurface Archive)

NOTE: A single-use container designed for controlled dispensing of semi-solid substances. The multi-layer construction reveals sophisticated material engineering for product preservation, while the design reflects the mass-consumption characteristic of the Plastic Age.



SPECIMEN ID: KKC-DT4-006

ITEM: Portable Energy Transmitter

GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2015-2050

COMPOSITION: Copper conductors, PVC insulation with plasticizer migration, molded polymer connector with gold-plated contacts

LOCATION: Site-02 (Formerly Kowloon Walled City)

NOTE: A standardized power delivery interface for mobile computational devices. The design shows evolutionary improvements in conductivity and durability over earlier models, with material degradation patterns providing insights into polymer aging under urban environmental stress.



SPECIMEN ID: KRN-IC7-007

ITEM: Thermal Radiation Panel

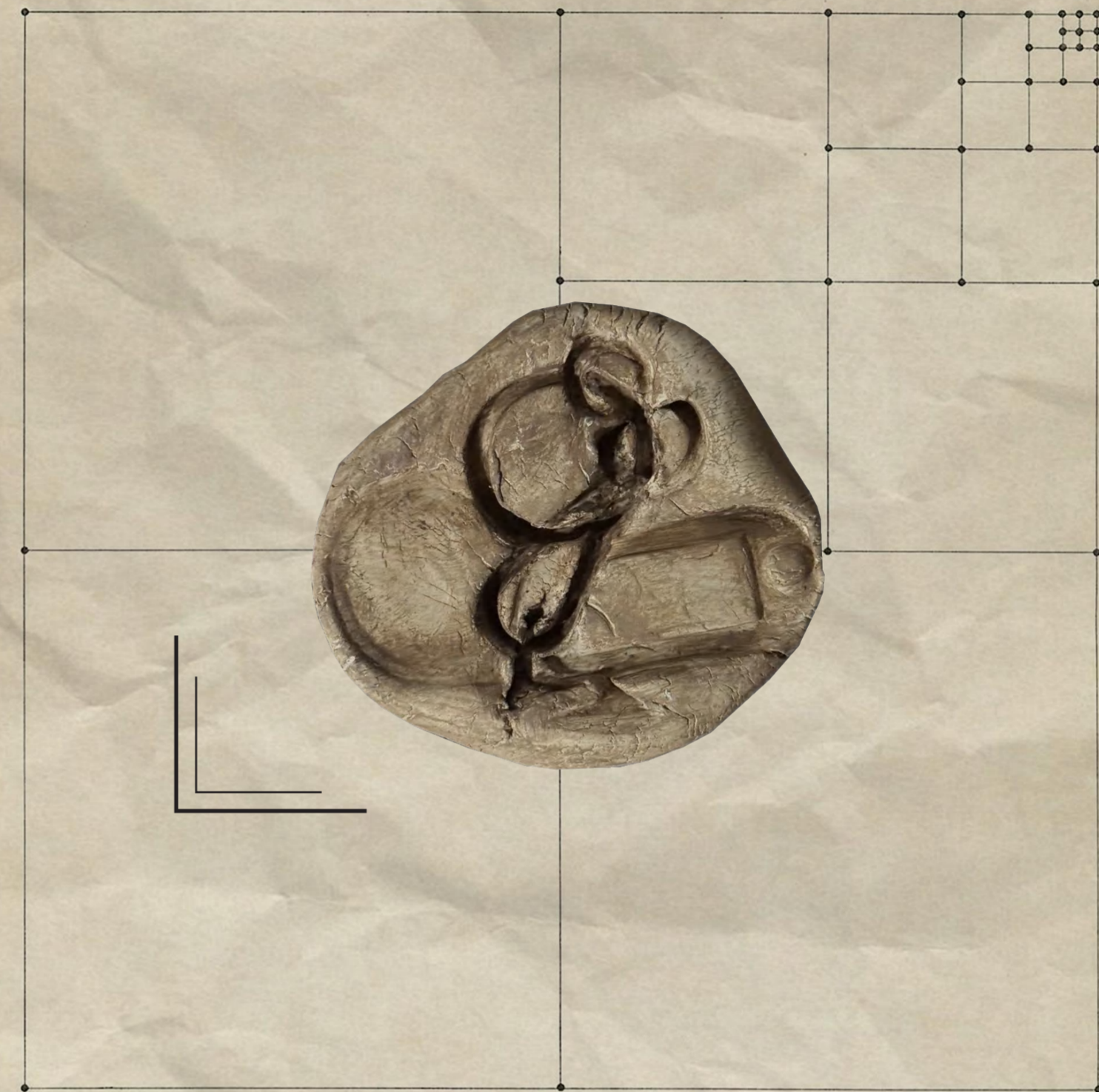
GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 1990-2035

COMPOSITION: Cast iron core, mineral-based coating, corroded steel brackets, calcium carbonate deposits in internal channels

LOCATION: Site-01 (Kiruna Subsurface Archive)

NOTE: A passive thermal management device that utilized circulated heated liquid to modulate interior climates. Its robust construction and mineralized internal surfaces testify to extended use in harsh northern environments, representing an energy-intensive approach to environmental control.



SPECIMEN ID: KKC-DT4-008

ITEM: Authority Verification Token

GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2010-2045

COMPOSITION: PVC card body, embedded RFID chip, stainless steel keyring with patina formation

LOCATION: Site-02 (Formerly Kowloon Walled City)

NOTE: A compact identity-authentication device combining physical and digital security protocols. The integrated circuit shows advanced encryption capabilities for its era, while the wear patterns on the keyring suggest constant carrying - reflecting the pervasive surveillance culture of late-stage urban societies.



SPECIMEN ID: KRN-IC7-009

ITEM: Low-Profile Bearing Platform

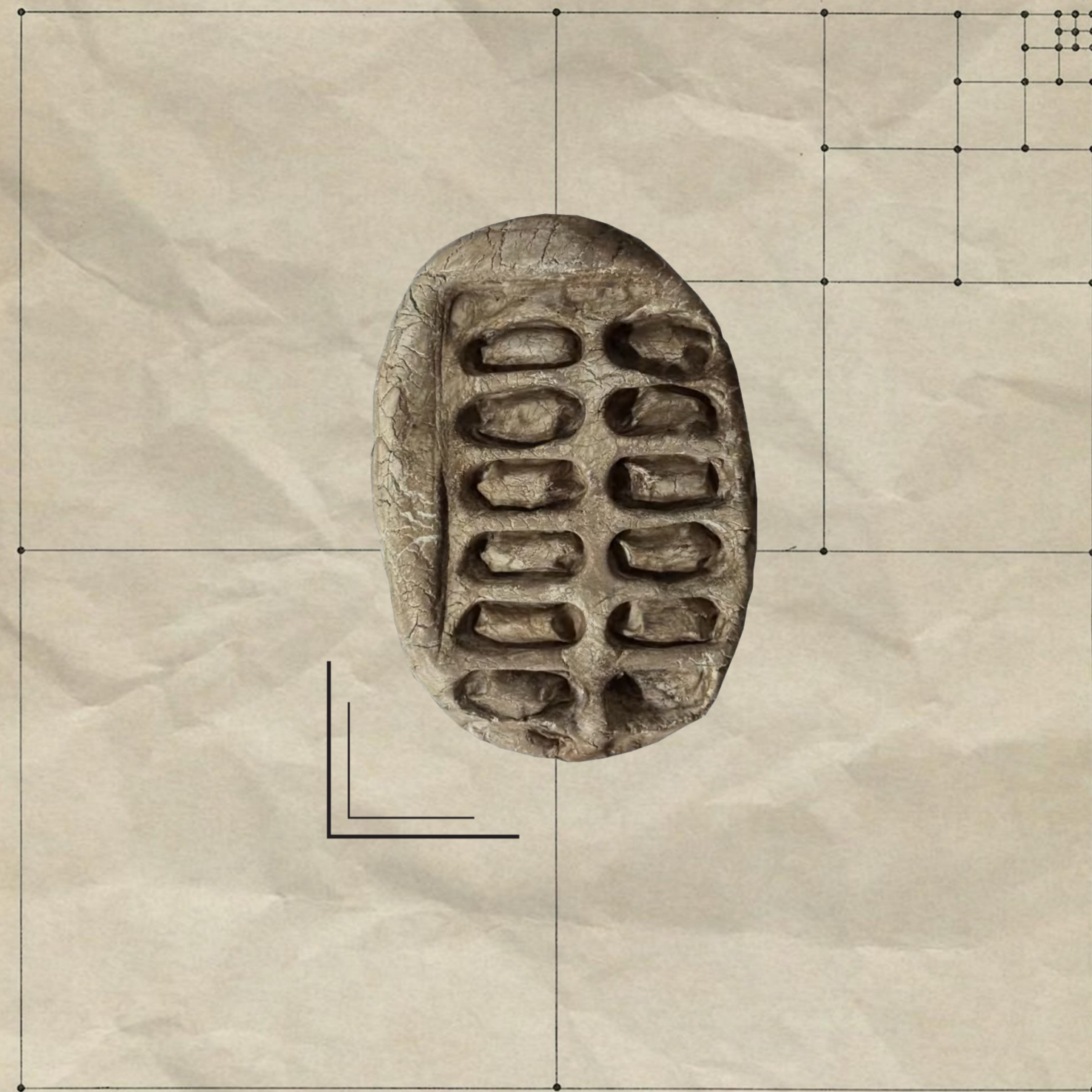
GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2000-2045

COMPOSITION: Polymer wheel with abrasive wear patterns, stainless steel ball bearings, aluminum alloy mounting bracket

LOCATION: Site-01 (Kiruna Subsurface Archive)

NOTE: An omnidirectional mobility device enabling precise manual transportation of medium loads. The sophisticated bearing system represents the refinement of a centuries-old technology, while polymer wear patterns document decades of service in industrial logistics networks.



SPECIMEN ID: KKC-DT4-010

ITEM: Therapeutic Compound Array

GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2020-2060

COMPOSITION: Pharmaceutical-grade cellulose blister substrate, synthetic polymer film, active chemical compounds in measured doses

LOCATION: Site-02 (Formerly Kowloon Walled City)

NOTE: A precision-dosed chemical delivery system designed for individual therapeutic regimens. The sealed packaging demonstrates advanced preservation techniques, while the standardized dosage form reflects the mass-production approach to healthcare in late industrial society.



SPECIMEN ID: KRN-IC7-011

ITEM: Pressurized Chemical Jet Canister

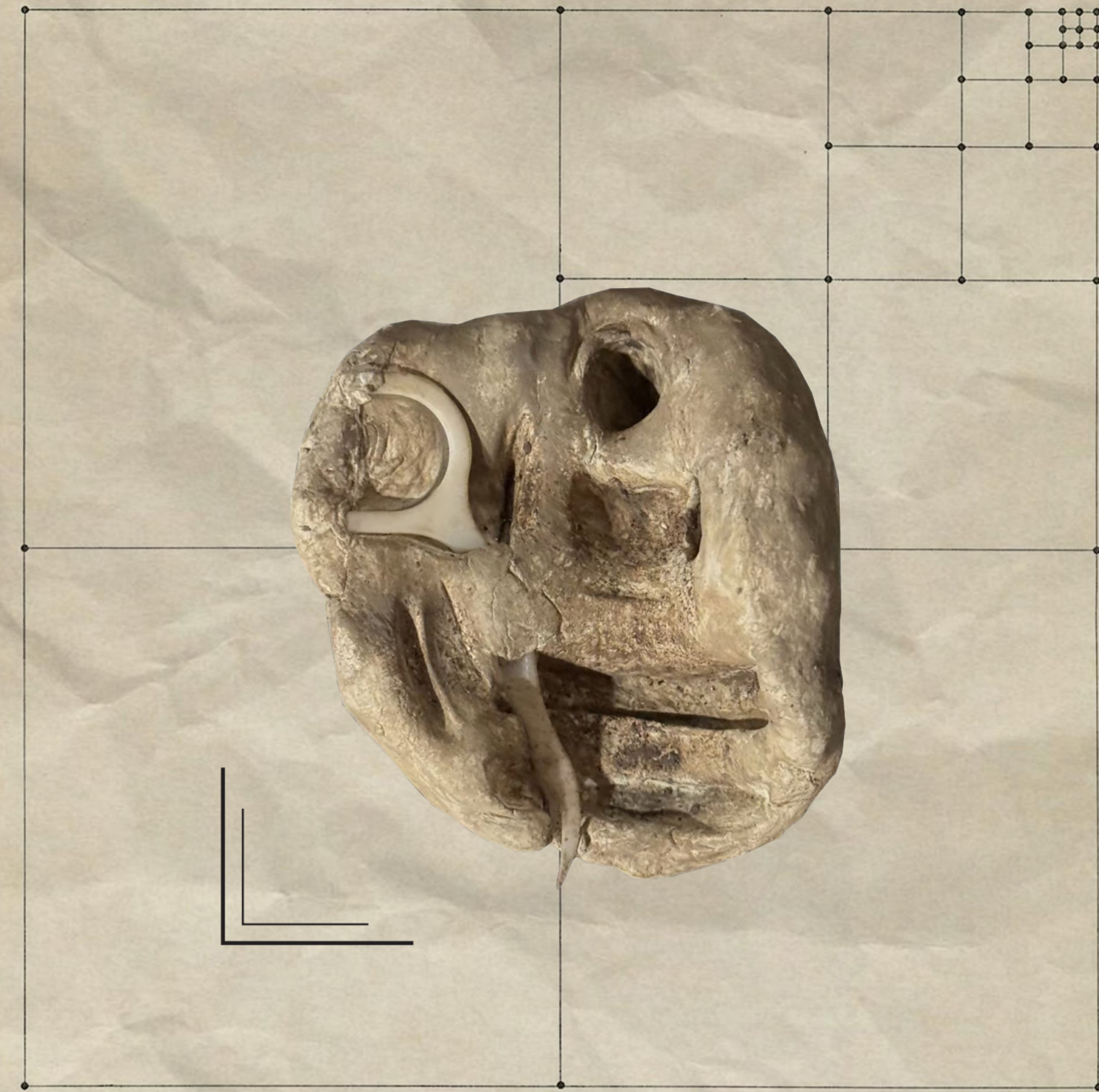
GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2010-2055

COMPOSITION: ABS polymer nozzle, stainless steel spring, silicone seals with degradation patterns

LOCATION: Site-01 (Kiruna Subsurface Archive)

NOTE: A precision fluid dispersal mechanism utilizing Bernoulli's principle to generate fine aerosol mist. The corrosion patterns on internal components suggest repeated exposure to chemical solvents, documenting domestic and industrial maintenance practices of the era.



SPECIMEN ID: KKC-DT4-012

ITEM: Fluid-Mixing Terminal

GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2005-2050

COMPOSITION: Brass valve body with mineral deposits, ceramic disk cartridge, eroded rubber gaskets

LOCATION: Site-02 (Formerly Kowloon Walled City)

NOTE: A precision hydraulic interface for regulating water temperature and flow velocity. The mineralized deposits within the valve mechanism document local water hardness levels, while wear patterns reflect decades of manual adjustments in high-density urban habitats.



SPECIMEN ID: KRN-IC7-013

ITEM: Flexible Transport Container & Personal Grooming Implement

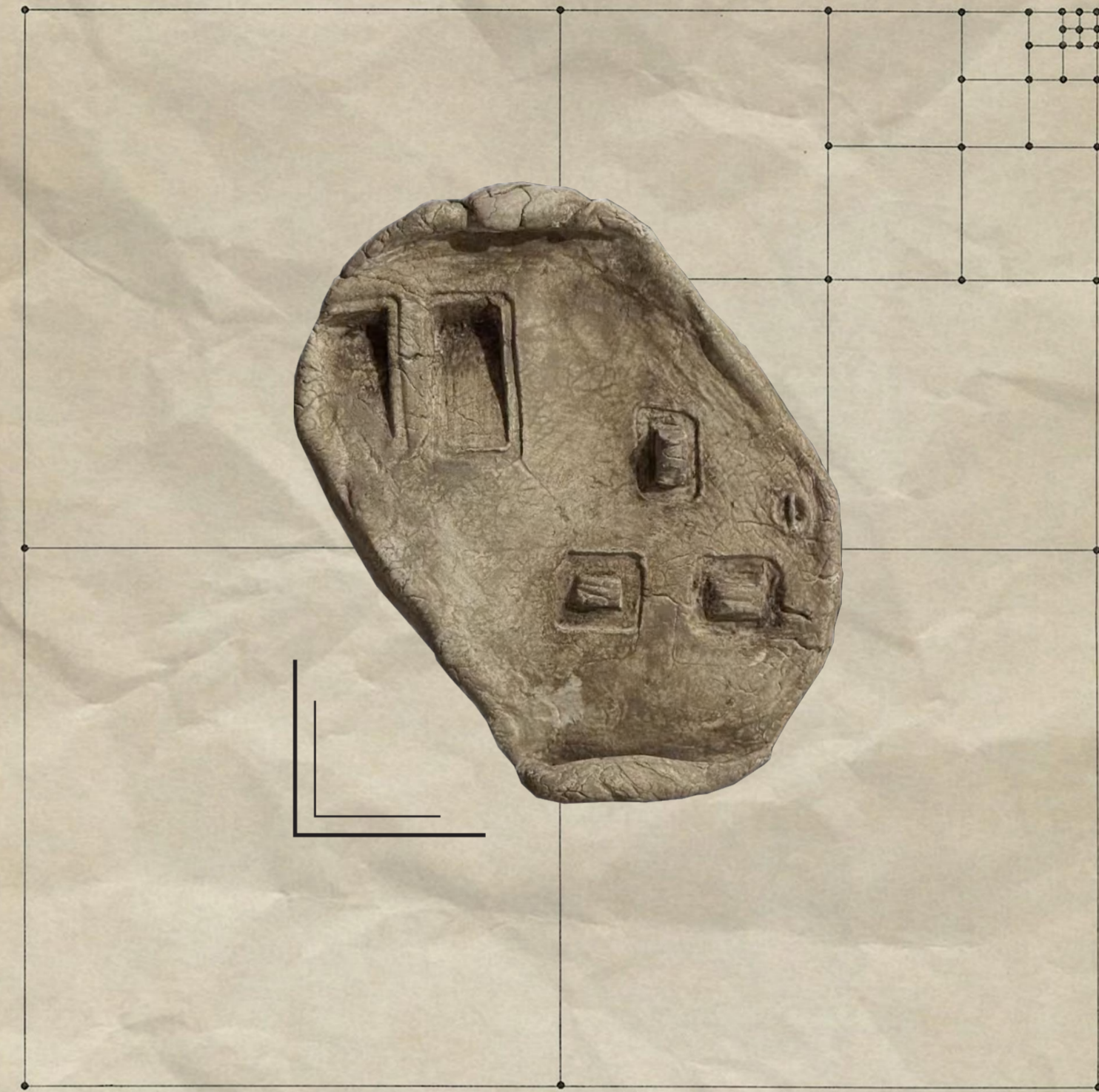
GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2015-2060

COMPOSITION: Polyethylene film with oxidative degradation, ABS polymer teeth with mechanical wear

LOCATION: Site-01 (Kiruna Subsurface Archive)

NOTE: A material juxtaposition capturing two aspects of daily life: disposable logistics and personal maintenance. The polymer degradation provides crucial data on material lifetimes, while the grooming tool reflects evolving beauty standards in late consumer society.



SPECIMEN ID: KKC-DT4-014

ITEM: Energy Distribution Node & Control Interface

GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2008-2055

COMPOSITION: Thermoset polymer housing, copper conductors with oxidation patterns, phosphor bronze contacts

LOCATION: Site-02 (Formerly Kowloon Walled City)

NOTE: A dual-function infrastructure component combining power distribution with manual control capabilities. The design shows regional variations in safety standards, while contact wear patterns document estimated switching cycles and electrical load histories in dense urban environments.



SPECIMEN ID: KRN-IC7-015

ITEM: Portable Liquid Container & Non-degraded Polymer Wrap

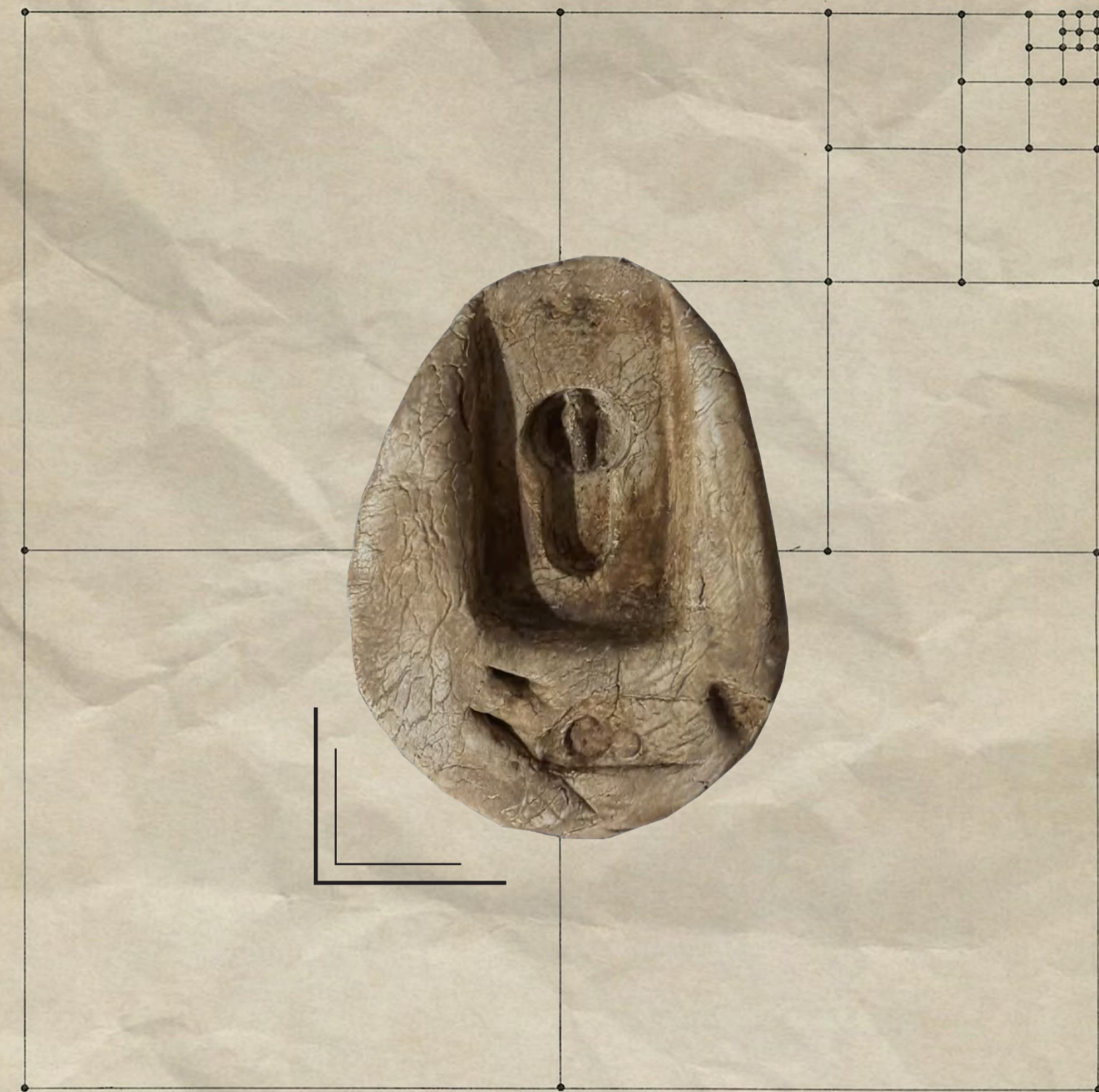
GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2030-2070

COMPOSITION: PET polymer bottle with minimal weathering, LDPE packaging film retaining full flexibility

LOCATION: Site-01 (Kiruna Subsurface Archive)

NOTE: Exceptionally preserved specimens demonstrating advanced polymer stabilization technologies. The minimal material degradation suggests these artifacts originated from the late Plastic Age, providing crucial reference data for studying the multi-century persistence of synthetic polymers in controlled environments.



SPECIMEN ID: KKC-DT4-016

ITEM: Mechanical Access Portal

GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 1985-2035

COMPOSITION: Brass locking mechanism with polished internal surfaces, steel reinforcement plate, oxidized iron mounting screws

LOCATION: Site-02 (Formerly Kowloon Walled City)

NOTE: A physical security interface requiring precise mechanical keys for operation. The wear patterns on internal tumblers document decades of usage cycles, while design features reflect localized security paradigms in high-density urban architecture.



SPECIMEN ID: KRN-IC7-017

ITEM: Flexible Transport Container

GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2018-2065

COMPOSITION: LDPE film with partial oxidative degradation, polyethylene terephthalate labeling fragments, residual adhesive compounds

LOCATION: Site-01 (Kiruna Subsurface Archive)

NOTE: A single-use protective enclosure demonstrating standardized packaging methodologies. The material's partial degradation provides valuable data on polymer behavior in subsurface preservation conditions, reflecting the global distribution networks of disposable consumer goods.



SPECIMEN ID: KKC-DT4-018

ITEM: Portable Liquid Container

GEOLOGICAL AGE: Anthropocene

EST. DATE: c. 2025-2070

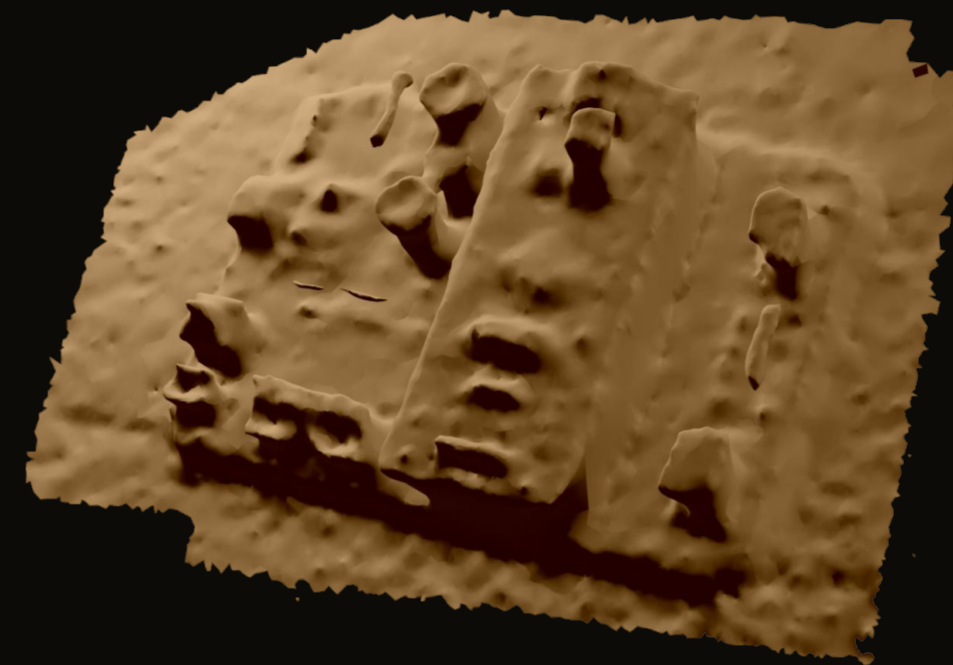
COMPOSITION: PET polymer with UV degradation patterns, polypropylene cap with stress fractures, residual organic deposits

LOCATION: Site-02 (Formerly Kowloon Walled City)

NOTE: A single-use hydraulic vessel designed for personal hydration systems. The material fatigue at the neck region reveals structural weaknesses in disposable container design, while surface degradation patterns document prolonged exposure to urban atmospheric conditions.

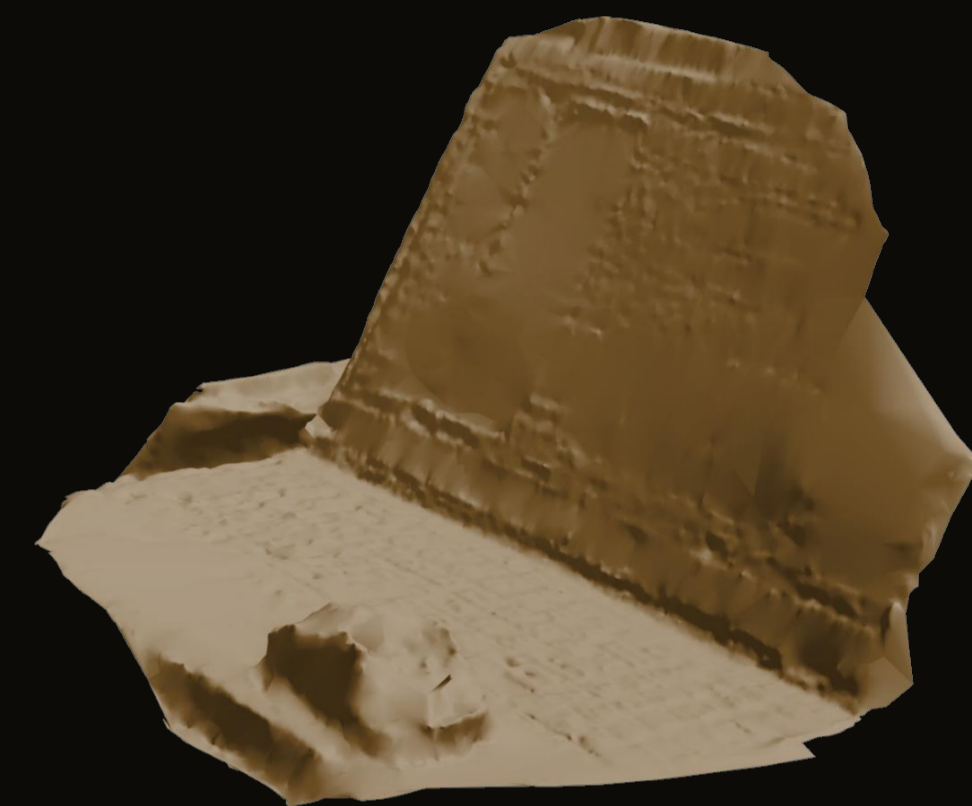
# Morphological Element Analysis: Functional Interpretation of Anthropocene Fossils

Macro-scale structural logic reveals the operational principles of the civilization, while its micro-scale morphological elements preserve the details of their execution, embodying the specific traces of life from the Anthropocene. This section presents digitally reconstructed forms of the life-embedded elements, derived from high-precision scans of "Anthropocene fossils" extracted from sedimentary layers around the sites. Based on their morphology, material, and excavation context, the expedition has conducted functional speculation regarding the primary use of these components. This analysis aims to translate abstract "traces of life" into concrete "evidence of behavior," thereby understanding how these basic elements supported the daily functioning of the Anthropocene system and ultimately became the fundamental material units for constructing its memorial structure.



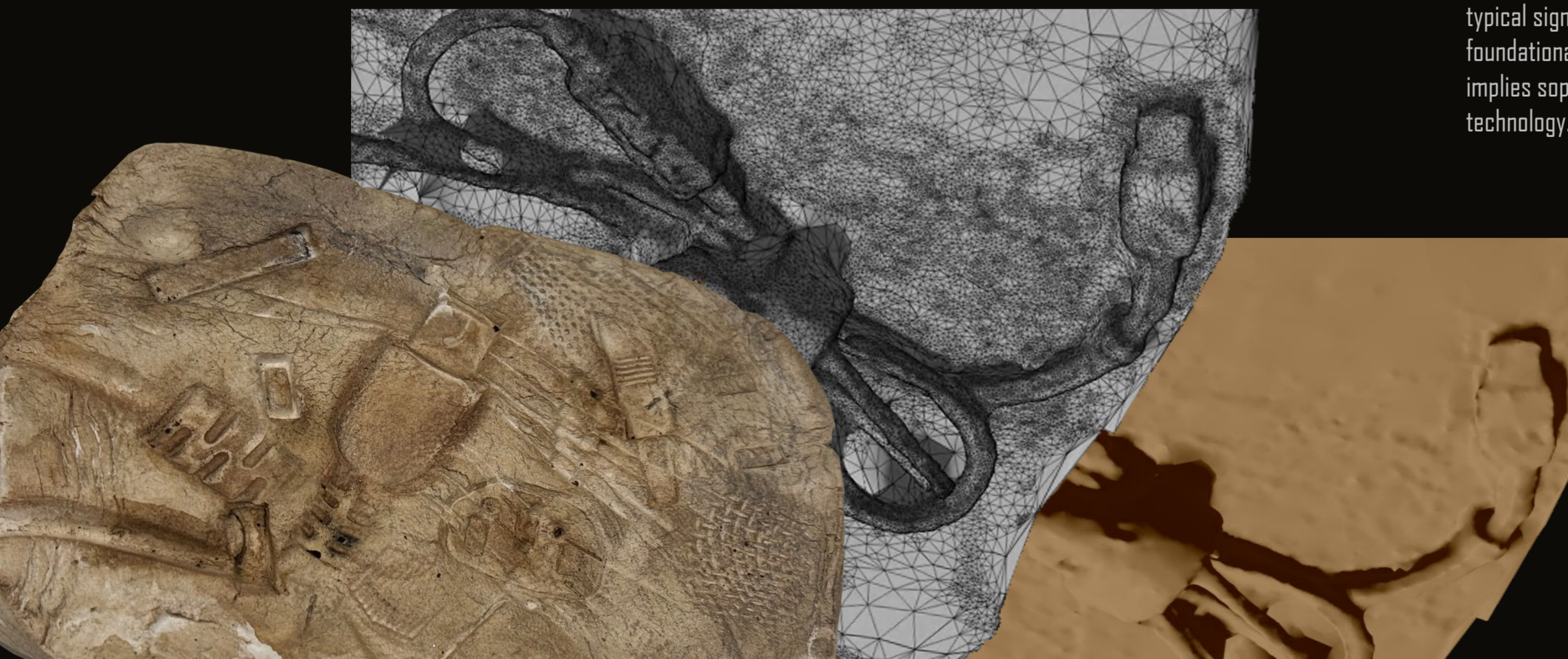
**Information Pathway Substrate**

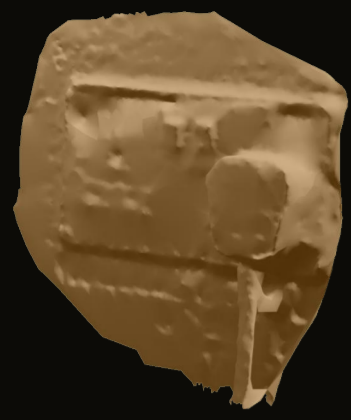
A composite substrate displays organized metallic path networks with attached miniature standardized components. Terminal connection structures suggest integration into larger systems. Specific component arrangements match typical signal processing unit patterns, indicating use in foundational information systems. Structural complexity implies sophisticated micro-scale information transmission technology.



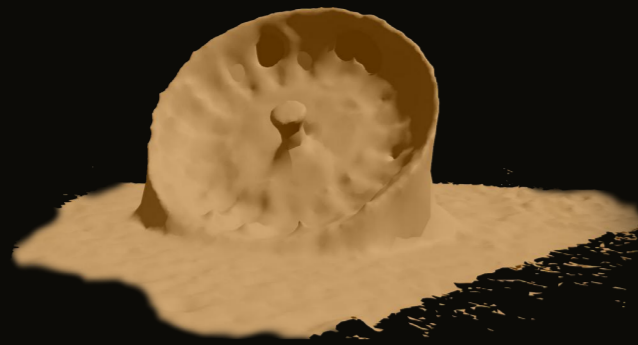
**Thought-Sequence Encoder**

A matrix of 108 standardized tactile units. Humans likely used specific sequential keystrokes to convert abstract thoughts into standardized digital signals. Design logic suggests this served as an external neural extension—enabling a symbiotic human-machine relationship that translated biological cognition into storable, transmittable electronic imprints.





Information Pathway Substrate



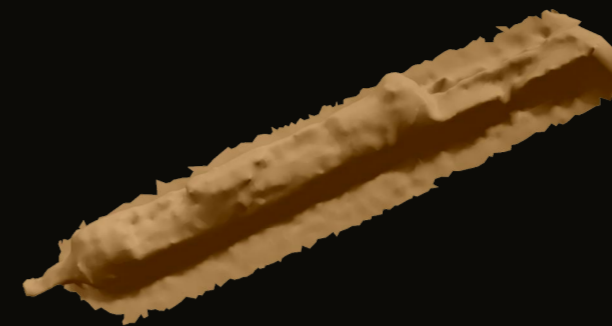
Fluid Sifter



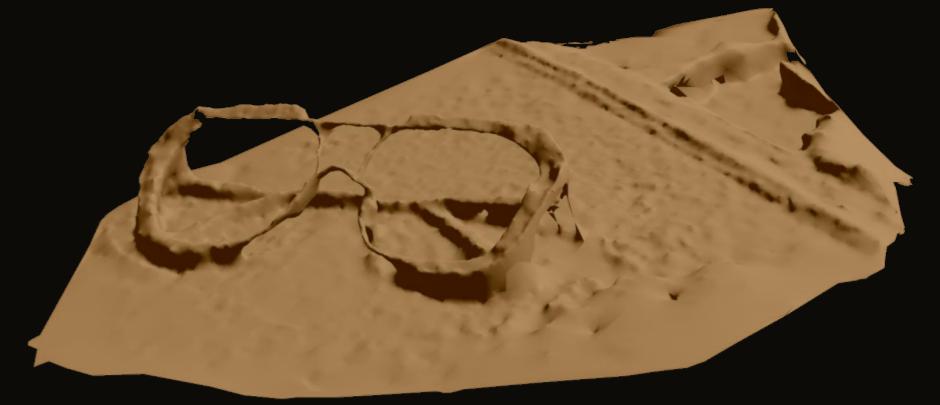
Directed Dispenser



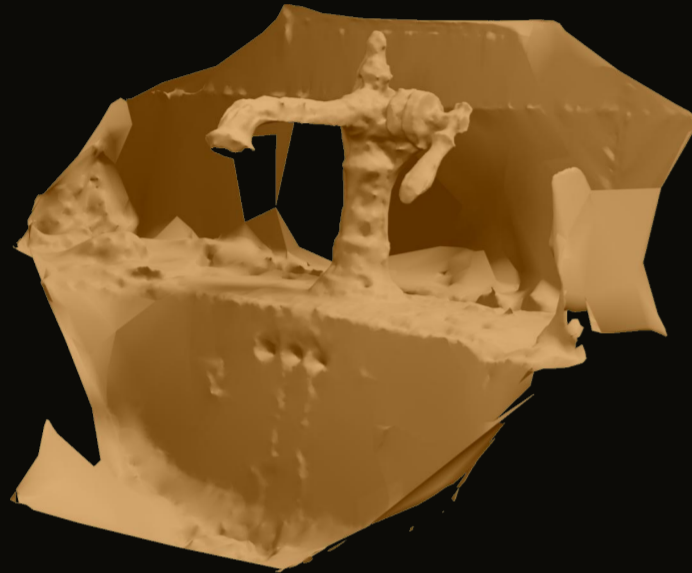
Portable Liquid Heating Vessel



Manual Marking Tool



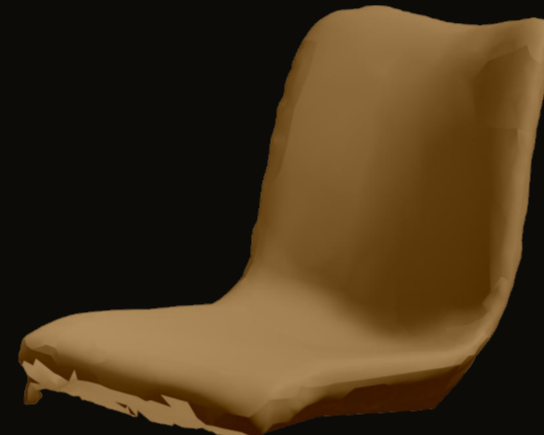
Sensory Enhancer



Fluid-Mixing Terminal



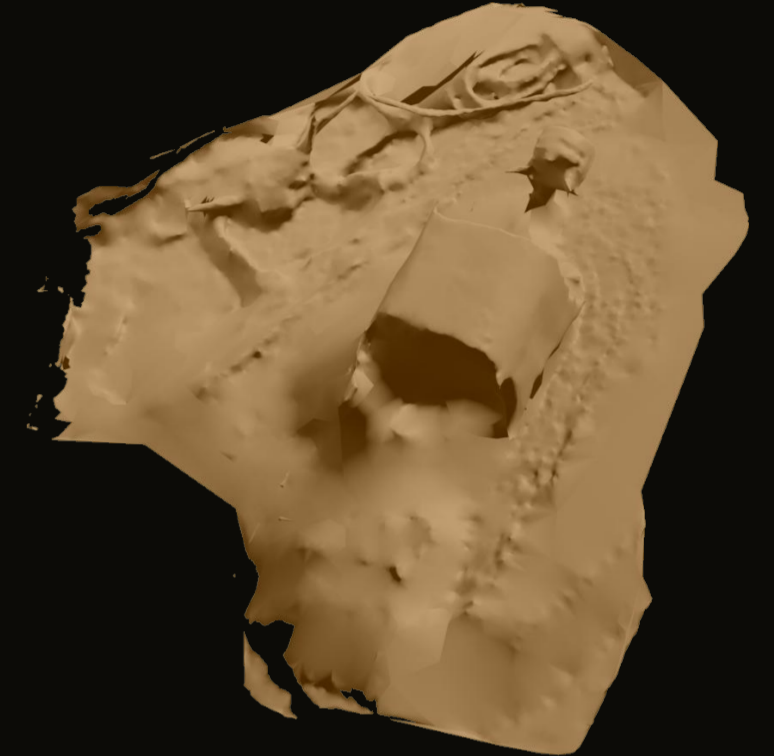
Load-Balancing System



Static Support Base



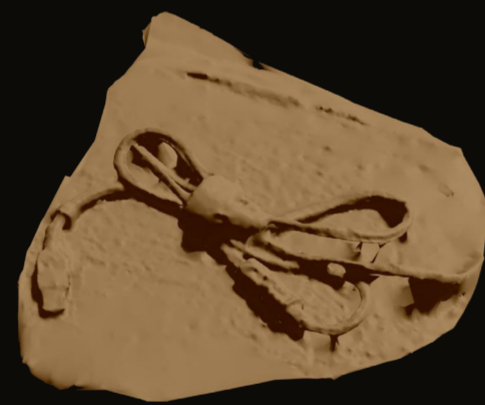
Pressurized Chemical Jet Canister



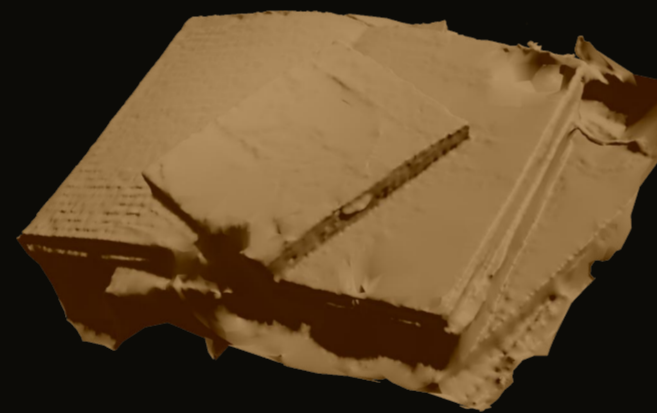
Portable Liquid Container



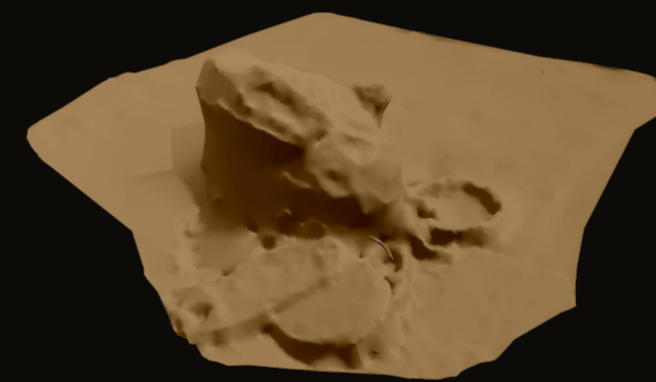
Low-Profile Bearing Platform



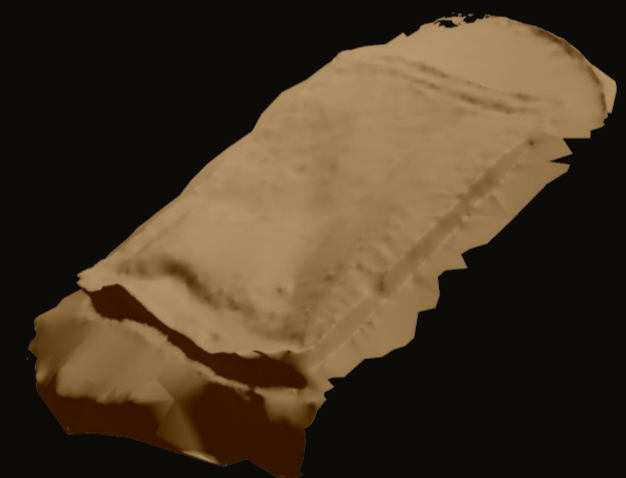
Directed Energy Transfer Strip



Layered Information Carrier



Authority Verification Token



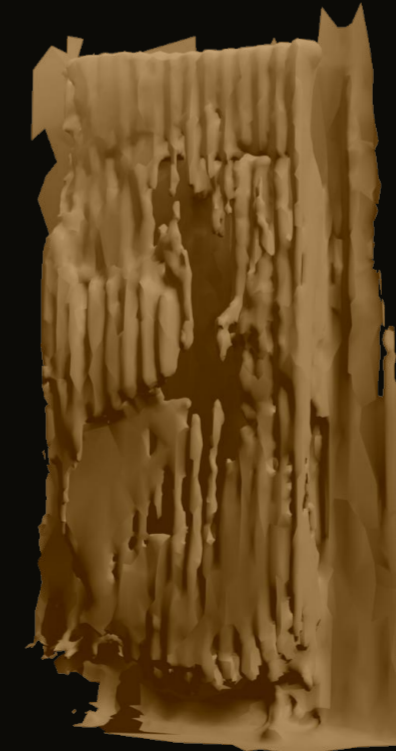
Flexible Transport Container



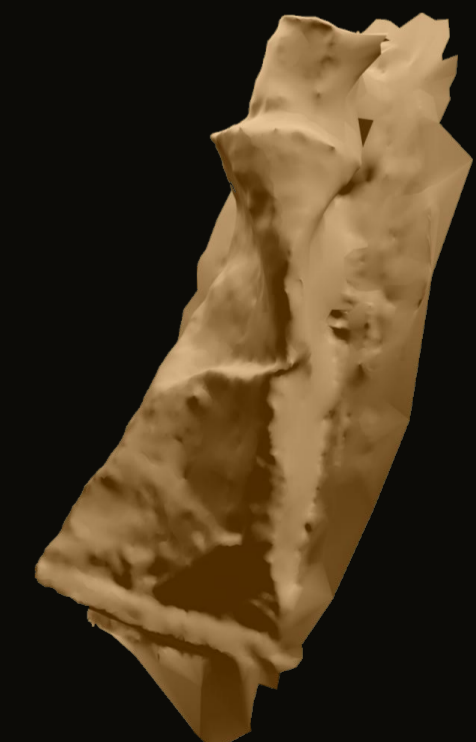
Overhead Air Recirculation Unit  
Modular Storage Unit



Hollow Flow Conduit



Ambient Thermal Diffuser

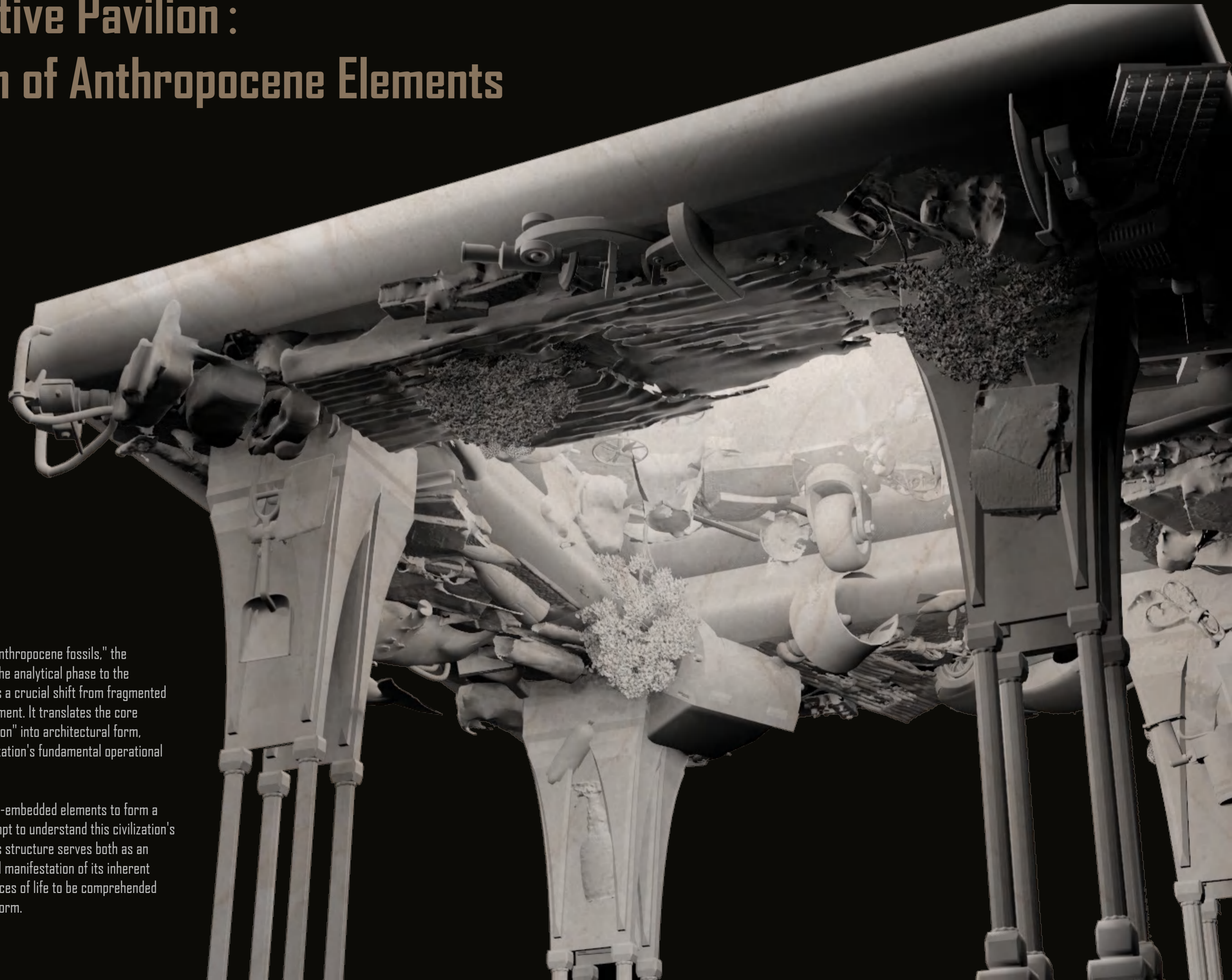


Tubular Paste Reservoir

# Commemorative Pavilion: Condensation of Anthropocene Elements

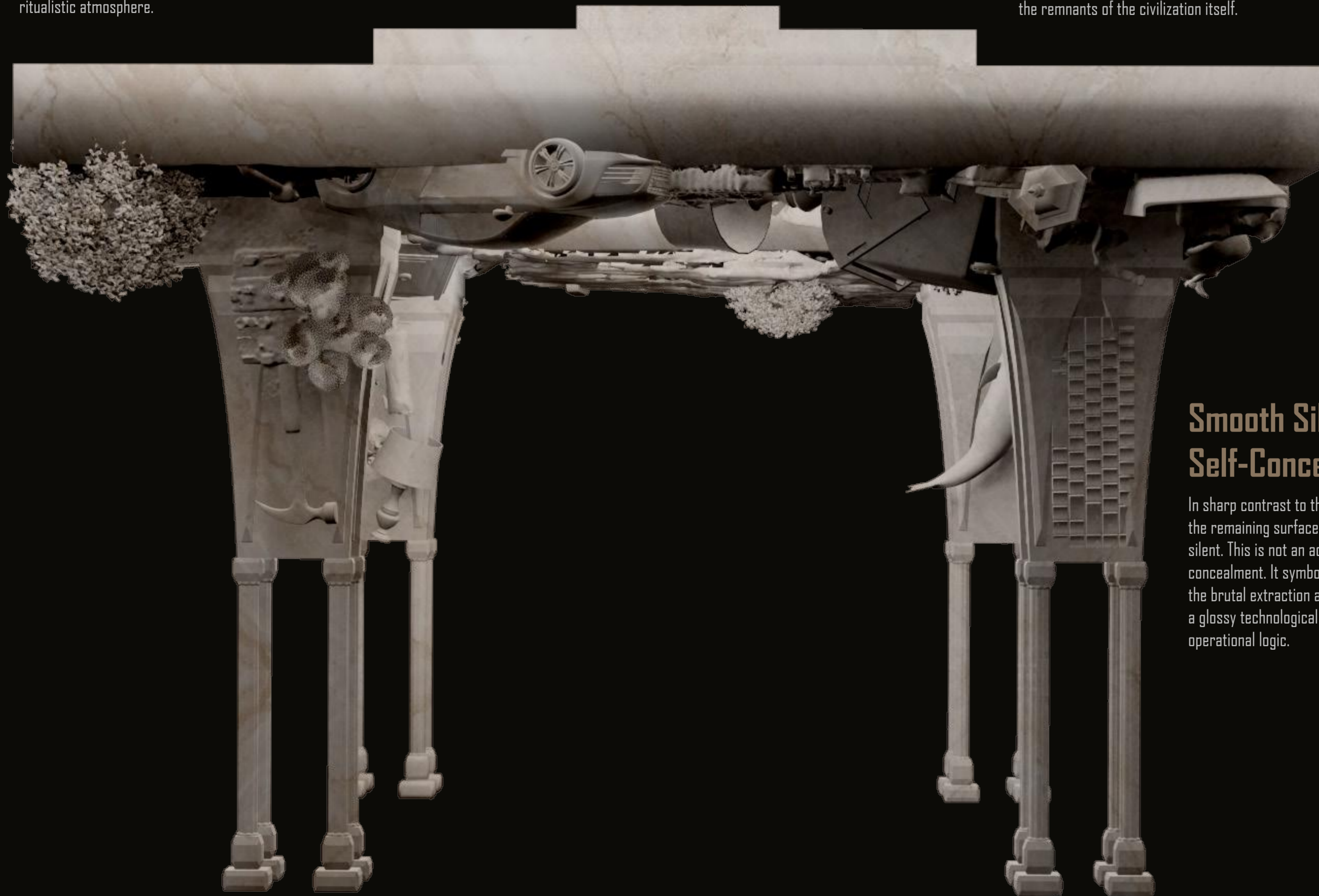
Following the systematic documentation of "Anthropocene fossils," the expedition's research has transitioned from the analytical phase to the synthetic phase. This memorial pavilion marks a crucial shift from fragmented material evidence to a complete spatial statement. It translates the core operational logic of "extraction-superimposition" into architectural form, serving as a spatial transposition of the civilization's fundamental operational mechanisms.

By re-superimposing and combining these life-embedded elements to form a legible three-dimensional document, we attempt to understand this civilization's survival logic and internal contradictions. This structure serves both as an elegy for a vanished civilization and a physical manifestation of its inherent paradoxes, allowing these once-scattered traces of life to be comprehended holistically by more people through this new form.



## Tiered Canopy: A Ritual Void

Four pillars support a square canopy structure incorporating three tiers of suspended squares. This rigorous geometric composition pays abstract homage to Kowloon Walled City's logic of vertical superimposition, distilling its chaotic survival density into a clear architectural syntax. Each inwardly receding tier symbolizes another cycle of inward growth within finite boundaries, ultimately forming a negative space that guides the view upward, creating a profoundly ritualistic atmosphere.



## Anthropocene Assemblage: From Traces to Testimony

The upper sections of the supporting pillars and the interior surfaces are densely assembled from scanned and reconstructed representative elements of the Anthropocene, derived from "Anthropocene fossils." These everyday objects—originally built and produced from raw materials extracted from the earth—along with biological traces of Earth's former inhabitants, are now reassembled and endowed with a new order. They are no longer scattered "traces" but coalesce into a collective portrait of civilization, serving as direct evidence of the "extraction-shaping-waste" cycle. When viewers look upward, they will confront this silent material epic, written with the remnants of the civilization itself.

## Smooth Silence: A System of Self-Concealment

In sharp contrast to the narratively charged complex elements of the interior, the remaining surfaces of the pavilion are rendered smooth, complete, and silent. This is not an act of protection, but rather one of systematic self-concealment. It symbolizes this civilization's tendency to beautify and evade the brutal extraction and internal consumption essential to its survival behind a glossy technological veneer, thereby refusing to thoroughly examine its own operational logic.



Therefore, this pavilion entity constitutes a complex apparatus of planetary Anthropocene self-reference: it employs the remnants of the civilization's own consumption (fossils) as its foundational material, assembling reconstructed Anthropocene elements according to its most fundamental spatial order (superimposition), yet ultimately manifests a posture of self-denial (the smooth exterior). It stands as a profound metaphor for a civilization trapped in a paradox of its own making—one either unaware of, or unwilling to confront, its own origins.



# Mnemonic Interface of Extraction

## From Overlaid Foundations to a Sunken Memorial Plaza

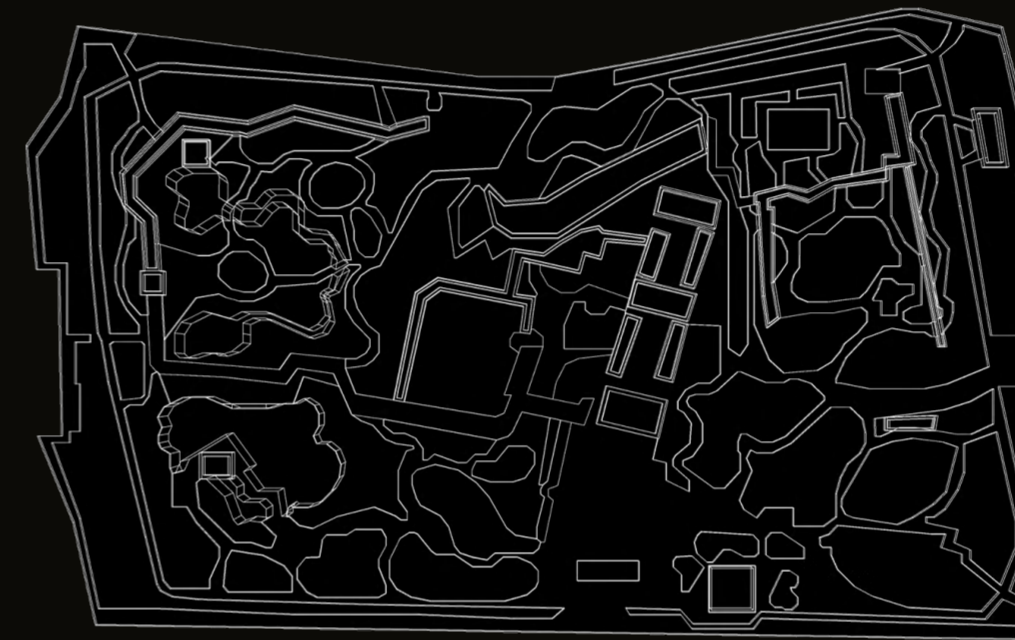
To establish the final domain for the memorial structure, the expedition team digitally superimposed the foundational plans of the Kiruna mine and the Kowloon Walled City ruins, generating a composite diagram that merges the two spatial logics. Based on this diagram, a public sunken plaza surrounding the memorial pavilion was excavated and constructed.

The site's geometric form is directly derived from the deformed grid of the diagram. This sunken terrain constitutes a topological translation of Kiruna's "negative form." Its submerged morphology serves both as a material reenactment of Earth's civilization's extractive behavior and an interstellar restaging of the primordial act of "excavation." When visitors enter the sunken plaza, they essentially reenact the primal posture of the Anthropocene civilization's extraction from the earth's depths—this descending movement, expressed through the bodily language of another civilization, replicates the logic of relentless digging that both sustained and ultimately terminated Earth's civilization.

This construction ultimately becomes a mnemonic interface connecting two worlds. It stands as an eternal memorial to the Anthropocene civilization, transforming the spatial trauma of Earth's civilization into perceptible geometric forms. Simultaneously, it serves as a contemplative space enabling our own planetary civilization to gain deeper understanding of the universal theme of "growth and consumption."



Site-01 Kiruna: Planar Survey of Extractive Topography

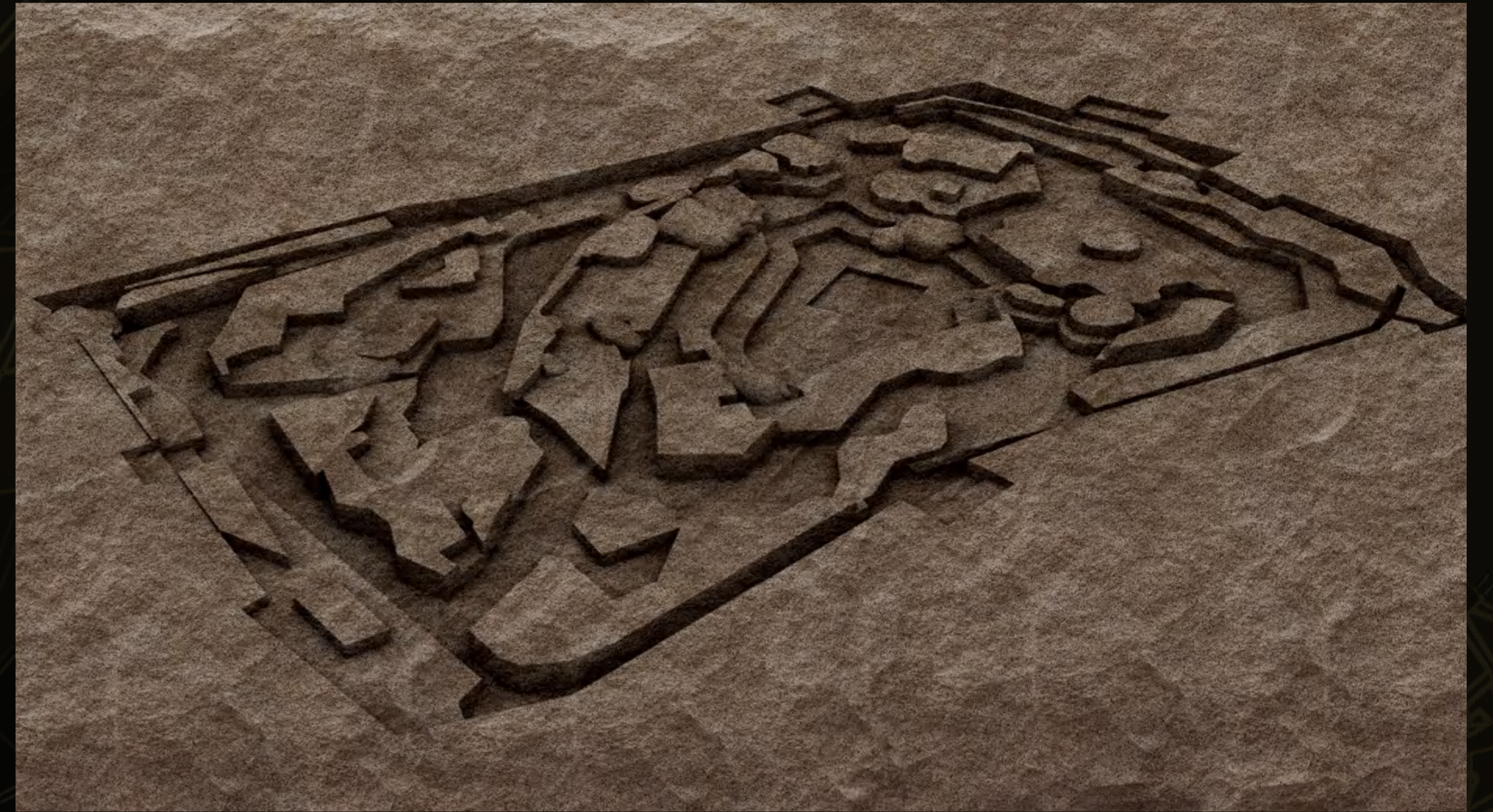


Site-02 Kowloon Walled City: Foundation Grid of Accumulation



Synthesized Spatial Logic: Superimposition of Extraction and Accumulation

Top View of the Site



Perspective View of the Site

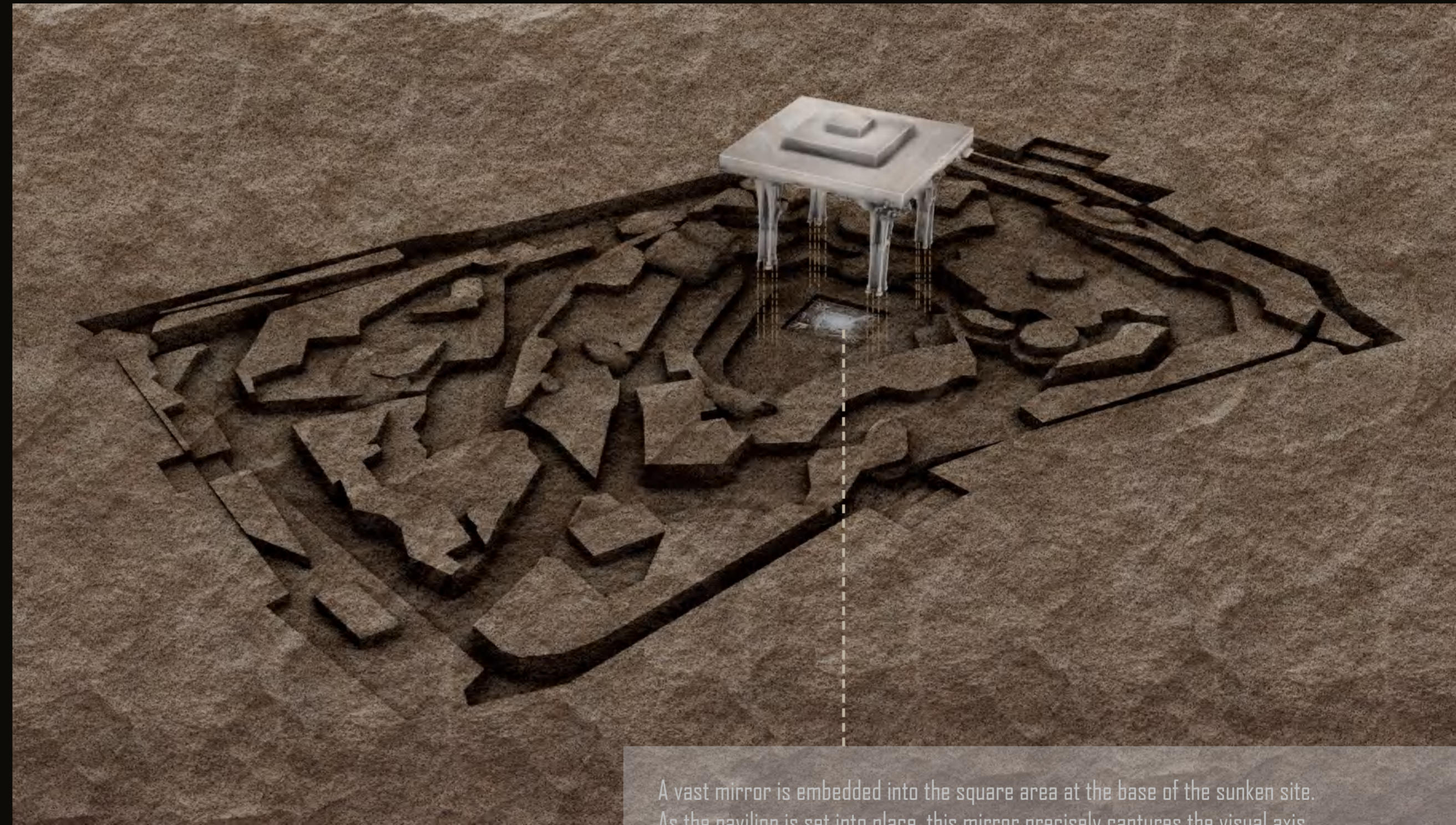


Front View of the Site

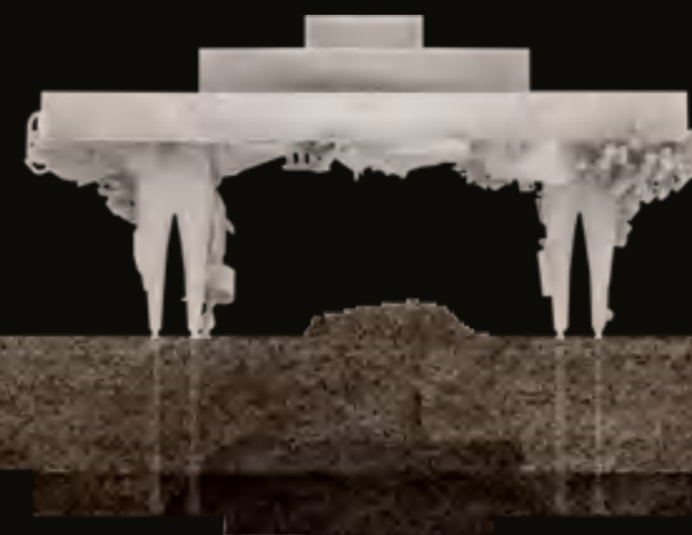
# Anthropocene Commemoration: A Structure Upon Excavation

Upon concluding the systematic investigation of Earth's Anthropocene sites, the Kepler-22 expedition materialized their findings through this memorial construction, establishing it within a designated public garden on their home planet. This apparatus permanently anchors the traces of life and inherent logic of Earth's Anthropocene into the soil of Kepler, forming an eternal memorial to the civilization of a vanished world.

The union of the memorial pavilion and the sunken site is not merely a physical placement, but rather the closure of a logical circuit. The pavilion itself, assembled from superimposed elements of Anthropocene life, condenses the act of "shaping." The site, generated through the superimposition of extraction and accumulation foundations, topologizes the act of "taking." Their integration marks the final convergence of two parallel threads originating from Kiruna and Kowloon Walled City—together, they validate different facets of the same civilizational principle, forming a verifiable, complete chain of evidence in three-dimensional space.



A vast mirror is embedded into the square area at the base of the sunken site. As the pavilion is set into place, this mirror precisely captures the visual axis projected downward from the layered ceiling. Thus, the interior dome composed of Anthropocene fossils obtains an infinite, self-referential reflection within the negative form created by its own excavation. The upward act of superimposed construction and the downward act of reflective excavation together form an endless loop, solidifying the civilization's survival paradox into a perpetual visual testimony.







Kepler surface memorial pavilion, close-up concept render

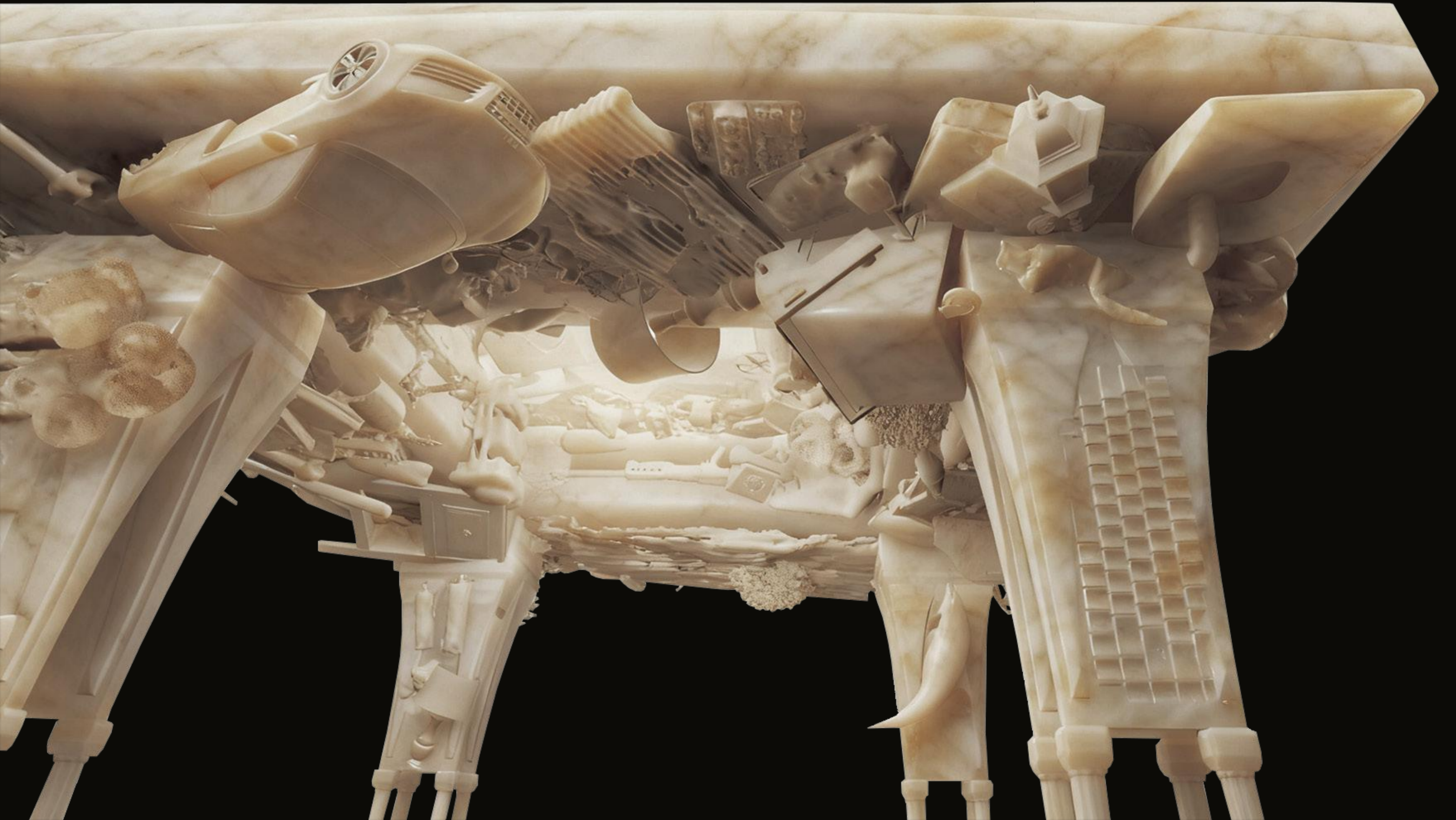


Pavilion with sunken plaza, overall concept render



Pavilion underside and lighting, concept render

Pavilion structure, close-up render



# Kepler Archive — Final Synthesis

The Kepler-22 Interplanetary Archaeological Bureau's investigation of Earth concludes as a civilization-scale diagnostic undertaking. The binary tendencies of "hollowing and heaping" proposed at the archive's outset have now completed their full cycle from theoretical framework to material proof. Kiruna's subsurface wounds and Kowloon Walled City's skyward density jointly verify the fundamental rhythm driving the Anthropocene: all upward accumulation of splendor was built upon the cost of downward hollowing.

The "Extraction-Superimposition" model and memorial apparatus we established transform this abstract rhythm into a tangible interstellar coordinate. When Kepler residents descend into this sunken field and gaze upon the dome constructed from civilizational remains reflected in the mirror, they witness not merely an epitaph for one civilization, but a

self-referential prophecy: any civilization that equates growth with limitless extraction ultimately inscribes its demise within its most glorious constructive logic.

Here, the archive's initial questions finally find their resolution—why did this extraction-built civilization fall silent? The answer lies precisely in its most fundamental spatial grammar: when hollowing became the only path to accumulation, when excavation remained the eternal prerequisite for construction, civilization's foundation was already suspended over the void of its own digging. This interstellar memorial thus becomes an eternal warning to all civilizations: true endurance is never founded upon taking, but begins with clear-eyed examination of one's own logic.