



THE SECOND SUN  
2047

## RESEARCH QUESTION

What happens when sunlight is a resource that is designed, operated and commodified?

How can design bridge the gap between knowledge and power? How can design bring together two distinct perspectives and contexts for discussion?

## RESEARCH BACKGROUND

The initial concept emerged from a speculative question: What if human beings could design and control sunlight itself as infrastructure? What would a world look like where light becomes a commodity—owned, operated, sold like electricity or water? This led to imagining orbital mirror systems that could redirect sunlight from Earth's day-side to night-side, extending daylight wherever corporations decide to illuminate. During research, I discovered that this is not purely speculative. Reflect Orbital, a USA-based company, is actively raising capital to develop exactly this technology: large reflective mirrors (150–200m diameter) deployed in Low Earth Orbit (600–800km altitude) to redirect sunlight and illuminate Arctic regions during winter darkness, extend agricultural growing seasons, and provide emergency lighting. The company is pursuing regulatory approvals and conducting serious technical development. The imagined future is becoming present.

## STATEMENT OF INTENT

This project focuses on the solar orbital mirror technology that will one day be realized in the future and reveals some of its hidden contradictions. The work does not discuss whether technology is good or bad, but presents two complete but mutually exclusive narratives:

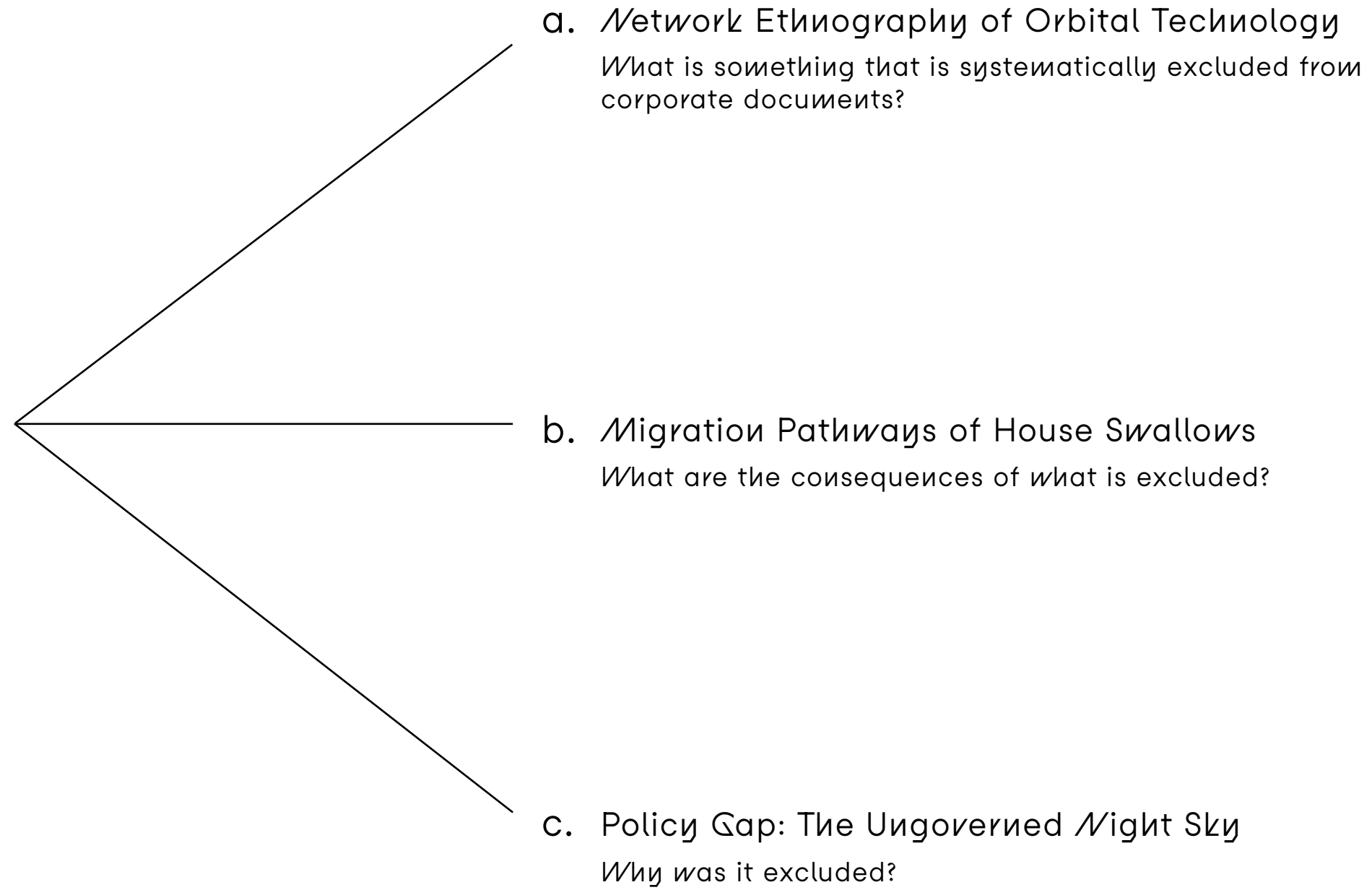
One is the corporate publication SOLESTIA: 2047, which depicts artificial sunlight infrastructure as a logical technological advance;

The other is a visual poem and comic from the perspective of swallow migration, showing the confusion and disorientation that occurs when the navigation system is disrupted by artificial light.

The question the project wants to raise is not moral judgment, but how we recognize and discuss these issues.

The role of design here is not to resolve unresolved conflicts, but to allow them to be openly discussed.

# FIELD RESEARCH



### a. Network Ethnography of Orbital Technology

Research indicates that “urban light pollution confuses migratory birds, often drawing them into city centers,” yet satellite approvals do not take these factors into account.

*“FCC satellite licensing under 47 CFR Part 25 evaluates orbital debris collision risk, spectrum interference, and national security implications but excludes environmental impact statements (NEPA) covering ground-based effects like light pollution”.*

----GAO TECHNOLOGY ASSESSMENT  
Large Constellations  
of Satellites

EXPLORERSWEB. HOME BREAKING NEWS EXPEDITIONS SCIENCE GEAR

## Are Satellite ‘Mega-Constellations’ Ruining Our Night Skies?

March 13, 2023 Andrew McLemore Environment | Natural History | News

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### Nature needs darkness

In her Ecological Citizen essay, “An ecocentric case against satellite constellations,” McFarland cites research showing that increasing light levels could disrupt the natural world.

Light pollution from cities confuses migratory birds, often drawing them to urban centers, where they're more vulnerable to threats from humans. Artificial light sources can also cause confusion and misdirection for species that rely on the moon for migration (such as the **heart-breaking deaths** of sea turtle hatchlings chronicled in Planet Earth II).

Also, humans are far from the first or only animals to navigate by celestial bodies. Species ranging from harbor seals to the large yellow underwing moth to the African dung beetle use stars and the Milky Way for nighttime travel guidance. Much like the tragic fate of those sea turtles, they're often distracted by artificial light, leading them to danger and conflict.

But perhaps the most fascinating example cited in McFarland's piece is that of **Cornell scientist Stephen Emlen**. In the 1960s, Emlen placed indigo buntings inside a planetarium with a false display of the night sky, including missing constellations and a displaced Polaris, or northern star. The birds couldn't orient themselves correctly in those conditions. When the time came for their autumn migration, they went in the wrong direction.

“There is little reason for an ecocentrist to demand a 5G connection anywhere on Earth,” McFarland wrote. “Is this really necessary for the 71% of Earth's surface that consists of water? Or in the half of Earth's terrestrial surface that many of us propose to protect for wild nature? Surely not. We must instead turn our attention to shrinking our societies — and, with it, our internet and cellular data infrastructure — before we colonize all of Heaven as well as Earth.”

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NOVEMBER 24, 2022 | 8 MIN READ

## Satellite Constellations Could Harm the Environment, New Watchdog Report Says

Elon Musk's Starlink and other satellite sources of light pollution and orbital debris should face an environmental review, the U.S. Government Accountability Office finds

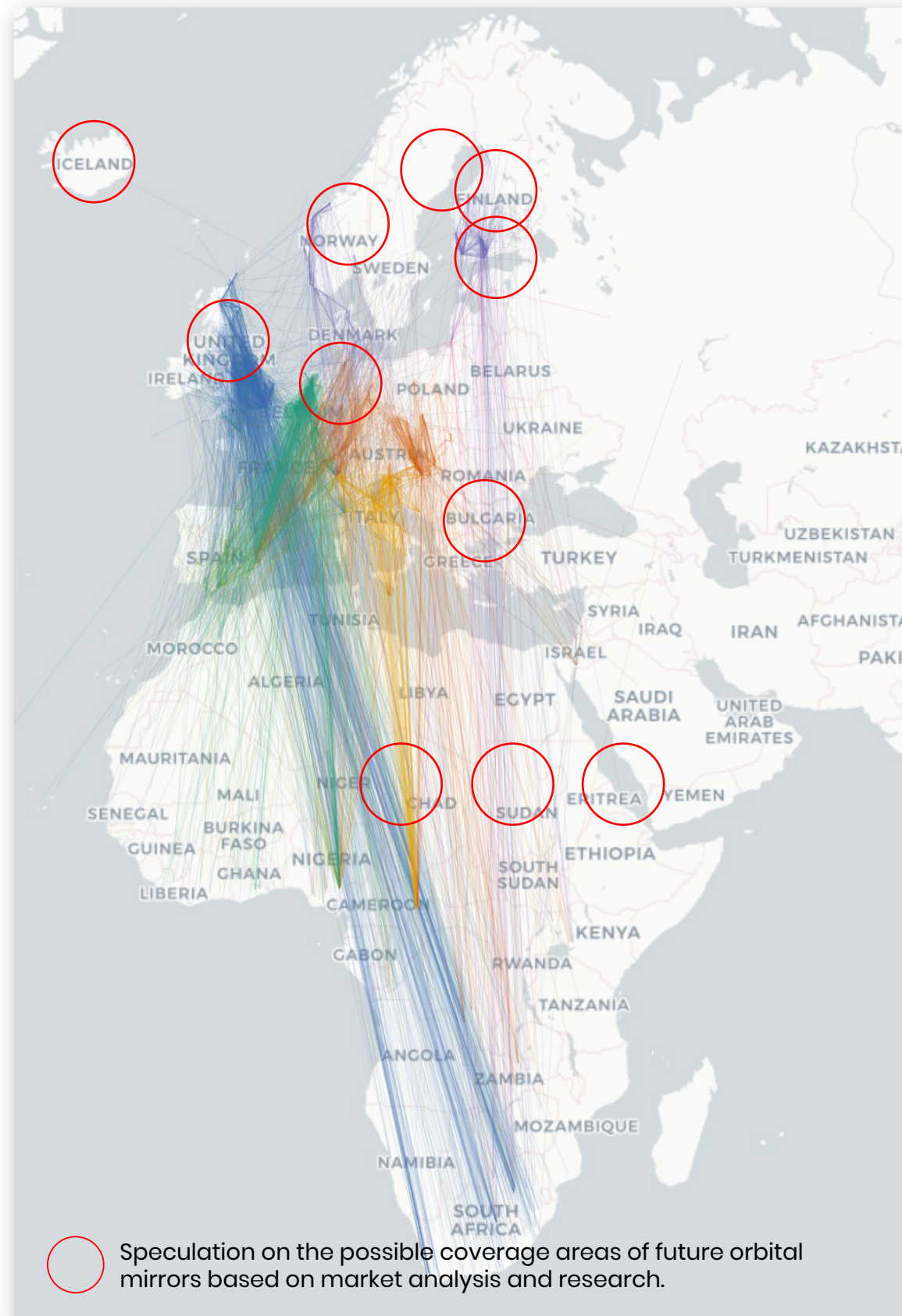
BY JONATHAN O'CALLAGHAN EDITED BY LEE BILLINGS

Leaving a fiery arc in its wake, a SpaceX Falcon 9 rocket lifts 53 Starlink satellites into low-Earth orbit from Vandenberg Space Force Base in California on Oct. 27, 2022. With this mission, the total number of launched Starlink satellites grew to 3,568. Source: Flickr/CC BY-NC 2.0

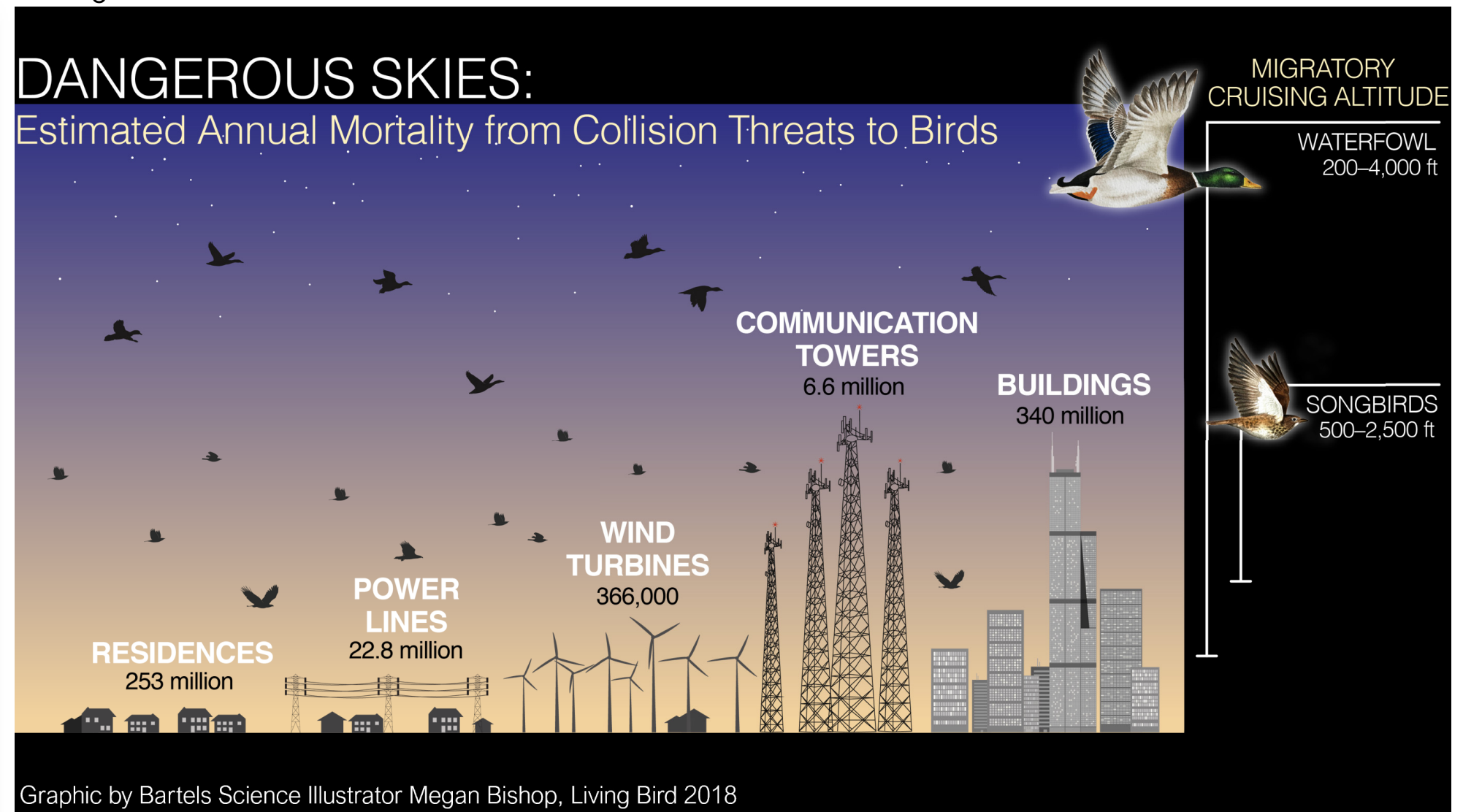
## 4,000 Orbital Mirrors Could Catastrophically Brighten Night Sky, Astronomers Warn

by nasaspacenevs — October 22, 2025 in News

### b. Migration Pathways of House Swallows



Existing threats + a new one from orbit?



European house swallows undertake two long-distance migrations annually, traveling between their breeding grounds in Europe and wintering grounds in Africa, covering a total flight distance exceeding 10,000 kilometers. Migration Timing: They follow a strict seasonal rhythm, shaped by millions of years of evolutionary adaptation.

These scientific data (navigation systems, light sensitivity thresholds, population effects) exist in the academic literature. But it is completely missing from FCC regulatory documents and company technical specifications.

### C. Policy Gap: The Ungoverned *Night Sky*

The night sky is not ungoverned, it is fragmented across three disconnected regulatory systems. This is a failure of institutional design itself: Our legal system was built in an era when space was not expected to be privatized and commercialized. When new technologies emerge, gray areas outside the regulatory framework appear in these areas.

Orbital Space  
(No Ecological Oversight)

International Space Law (concerned only with orbital safety, disregarding ecological impacts)



International Airspace  
(Regulatory Ambiguity)

Policy Vacuum Zone (Project Focus Area)



Before policies take shape,  
design can make invisible  
impacts visible.

Within the territory (where  
environmental regulations apply)

Regulations on ground-level light pollution only



## CONCLUSION

Reflect Orbital's development blueprint and technical facts, as well as the ecological facts of European Barn Swallows, plus the independent three-tier regulatory systems of Outer Space Treaty 1967, ICAO and Environmental Protection Law, provide this new technology orbital mirror with the opportunity to develop freely in the air within the system, without being subject to any ecological impact assessment.

Real situation: Orbital mirrors and barn swallow migrations intersect in the same geographical space and at the same time.

Institutional reality: However, the two systems are completely separated, technical policies ignore ecological data, and ecological protection has no right to touch technology. This is not a problem of information crossover, but a problem of power and system.

## DESIGN METHODOLOGY RESEARCH

*Actor-Network Theory*  
Bruno Latour

Actor-Network Theory (ANT) believes that there is no "neutral point of view" in any network. The knowledge and voice that each actor has is determined by its position in the network. Power is not held by a center, but is distributed through "obligatory passage points" in the network - whoever controls the obligatory passage points has the power to define reality.

### Key concept for this project

In the orbital mirror network, the necessary channels include: Federal Communications Commission regulatory decisions, corporate infrastructure management and control, bird migration timing, and atmospheric light penetration. Entry points are designed to reveal which actors' voices are excluded from these channels.

## Anti-Monument Methodology Maya Lin

Maya Lin pointed out when designing "What is Missing?": Monument design usually forces the audience to accept the designer's moral conclusion-- "This is bad, we should remember it." Anti-monument rejects this assumption. It presents data, presents facts, but deliberately does not provide "what should be" answers.

The role of design is to make the invisible visible, not to tell people how they should feel.

### Conclusion:

Design is not about resolving conflicts, it is about making them visible. Standing in the present and looking to the future, the design breakthrough point of this project is that before something happens, we can see the possibility of changes and raise questions in advance whether it will have some impact on everything that will happen in the future.



# Julian Bleecker-/Near Future Laboratory

## TBD CATALOG (2012-Present)

### Examples of Products in TBD Catalog

MeWee Monitor - An IoT connected toilet accessory for self-monitoring enthusiasts

Cactus-Wool™ Panda Jerky - If cloned pandas reproduce uncontrollably, we'll need new industries

Bacigalupi Brand High Caloric Hot Sauce - Calories become precious in scarcity scenarios

.....

### What is Design Fiction as Method?

Design Fiction combines elements of science fiction and design to create tangible prototypes that envision possible futures, helping to illustrate the consequences of today's decisions.

### Inspiration for my project:

The completeness of fiction is itself an argument. Fiction is not meant to deceive, but to make the inevitability of a certain system perceptible.

**TBD Catalog**  
The Design Fiction product catalog from a normal, ordinary, everyday possible product future.

**EarFreshener™**  
EarFreshener™ designed collaboratively by thousands, approved by the FDA and distributed by GSK and United Healthcare. EarFreshener™ is the celebrated open-science collaboratively designed aid for those suffering from "confused ear" syndrome. Informal and scientific studies have shown that your acuity at receptive voice communication greatly diminishes when you've been in on screen-lock for hours, even days, only "talking" to others (or are they bots?) through text. MRI scans of young adults show notable to significant reduction in blood and nutrient flow to the Wernicke's area of their brain after even hours-long exposure to pure screen based behaviors. Subsequent reduction in an ability to comprehend even the simplest voice dialogs can produce confusion, anxiety, frustration and significant mood disorders. EarFreshener™ is the only FDA approved mitigation therapy for aural receptive aphasia commonly induced by continuous persistent visual stimuli, non-verbal communication. Use only as directed. Comes with 12 stimuli produced by professional ASCAP sound designers.  
\$199 annual license, fitting and initial setup free!  
Product # EAR.318.423

**SafeWord**  
In an era of open communication, we've all fallen foul of public speech. A loose word here, a casual quip there, and you could lose a friend, or your job. You never know when someone's tweeting what you're saying, so best to say nothing at all. But now with SafeWord, you can forget that anxiety. Go ahead, yak away; SafeWord monitors your speech patterns, and shuts down offensive, inappropriate or undesirable utterances. And what's more, it's hypoallergenic and comfortable for all-day wear. Edit yourself - before someone else does.  
Product # SAF.833.126  
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**Synchronous Small Data Array**  
Data hygiene is our goal. Synchronous Small Data Array is our product. Keeps everything here, there and in the cloud in lock-step. No need to worry about data loss. Avoid out-of-synch data between home storage, your mobile device, camera, fitness and/or eating calculator, game devices, television, networked printers and domestic appliances, household environment monitoring and control system (HEMaC), indoor/outdoor monitored gardens (food or aesthetic or hybrid design/seeded vegetation), car entertainment and navigation units, etc.  
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\$8.99/TB per month using our storage facilities storage in Cape Verde data centers  
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\$3.99/TB per month using our storage facilities in US data centers

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Product # SYN.312.129  
\$89.99/30 Billable Lawyer Minutes

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Our scientists have blended the finest collection of natural pathogens to upgrade your immunity for healthy skin, organs and gut\*. In a world assailed by imminent pandemics and drug-resistant pandemics, dose yourself now to avoid future infections. Perfect for upcoming hospital visits, or just to deal with that weird foreign food! All natural. Pleasant Odour. Fully Biodegradable.  
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**Power Cords**  
Power Cords. Many varieties, colors, length, regions. Special on "skrunchy" cords that self-shrink when not in use. Stay cool to the touch even with the older kink spring-anneal and steam.

## CASE STUDY

### Ursula Viemanni-Deep Weather

Deep Weather is a nine-minute dual-screen video installation presented in the form of a video essay.

The connection is pursued through two narratives, one about oil, the other about water – vital ‘ur-liquids’ that form the undercurrents of all narrations as they are activating profound changes in the planetary ecology.



Carbon Geologies

Giant black mining pits in northern forests reveal the scale of industrial-grade geological engineering.



Hydro Geographies

Thousands in Bangladesh's Ganges Delta build flood-control embankments by hand.

### Inspiration for my project:

If a system involves multiple actors (humans, non-humans, institutions), juxtapose them and build bridges so they are viewed equally

## James Bridle-Drone Shadow

James Bridle's Drone Shadows project features full-scale drawings of unmanned aerial vehicles that carry out surveillance and air strikes, intended to raise awareness of the presence of these secretive aircraft.

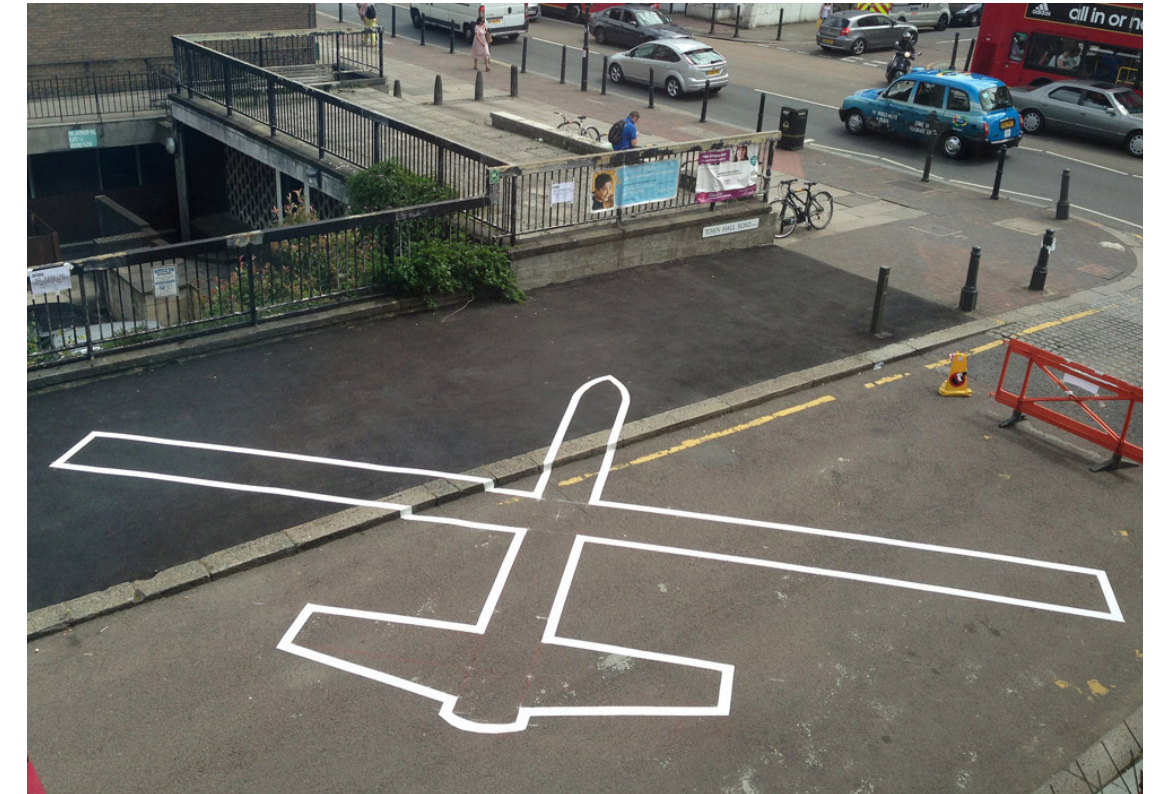
The Drone Shadow series forms part of Bridle's wider visual and textual activism on covert surveillance, illegal renditions, and the systems that allow violence against citizens

Making invisible systems visible through design.

Metaphorical level:  
Invisible drone ↔ Force visible silhouette



Drone Shadow 002, Istanbul, 2012



Drone Shadow 007, London, 2014



Drone Shadow 001, London, 2012.



Drone Shadow 003, Brighton, 2013.

### Inspiration for my project:

Invisibility is not just a matter of technology, it's a matter of power, as Bridle's Drone Shadow series taught me: something is often invisible not because it doesn't physically exist, but because someone chooses to make it invisible.

So my task is to make the invisible visible, and then more inner invisible feelings and information will be revealed.

# Forensic Architecture

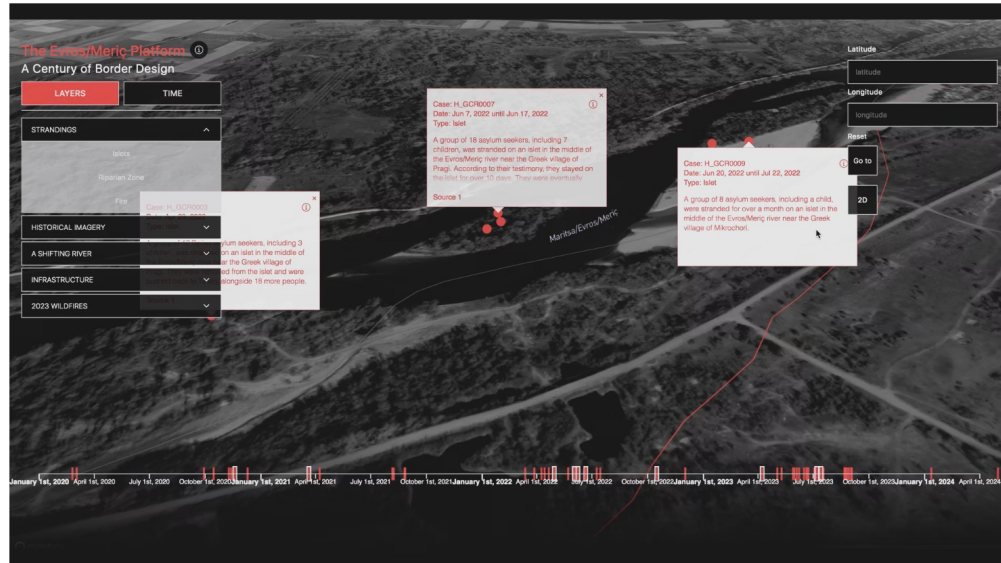
## Spatial Forensics: Making the Invisible Impact Visible.

### From Evidence Reconstruction to Narrative Construction: Visualizing Technical Details

**Inspiration for my project:**

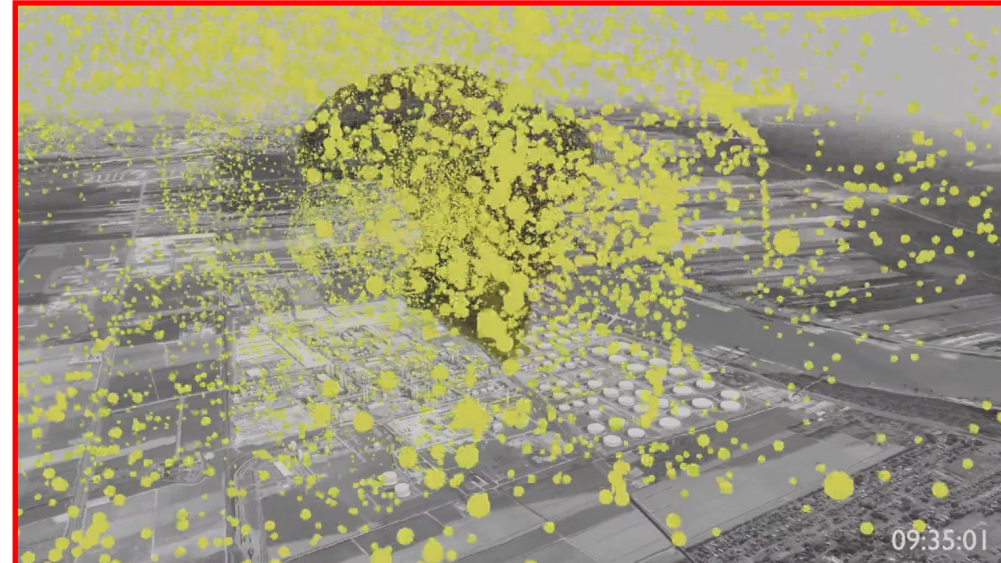
Details are the manifestation of power. Macroscopic invisibility is often hidden in microscopic details. Design can become a translation tool, presenting the logic of one system in a way that another system can see.

I.110 THE EVROS/MERIC RIVER: A CENTURY OF BORDER DESIGN



DATE OF INCIDENT 1926 - 2025	LOCATION Evros/Meric river, Greece/Turkey	FORUMS Web Platform
IN PARTNERSHIP WITH Self-Initiated	First drawn a century ago, the border that separates Greece from Turkey along the Evros/Meric river at the EU's southeastern frontier is deadlier and more opaque than ever. FA/Forensis built an interactive platform that unpacks this complex and lethal border infrastructure, and examines the present-day condition of the border against the transformation of the river landscape over the past century.	

I.106 CHEMICAL FIRE AT MARATHON REFINERY



DATE OF INCIDENT 24 Aug 2023 - 28 Aug 2023	LOCATION Garyville, Louisiana, USA	FORUMS Media, Web Platform
IN PARTNERSHIP WITH The Guardian, Earthjustice, Healthy Gulf, Louisiana Bucket Brigade, The Descendants Project, Boundless Community Action	When a leaking petrochemical tank at the Marathon Petroleum refinery in Louisiana's 'Cancer Alley' caught fire, it produced a thick plume of toxic smoke that spread for miles over neighbouring communities. Authorities claimed that nearby residents were unaffected, even as reports of severe health impacts emerged. Fearing a cover-up, some of those residents asked FA to investigate.	

<https://forensic-architecture.org/investigation/chemical-fire-marathon-refinery>

I.88 RESTITUTING EVIDENCE: GENOCIDE AND REPARATIONS IN GERMAN COLONIAL NAMIBIA



DATE OF INCIDENT 1904 - 1908	LOCATION Otjozondjupa, Omaheke, and Khomas, Namibia	FORUMS Media
IN PARTNERSHIP WITH The Ovaherero/Ovambanderu Genocide Foundation (OGF), Forensis	From 1904–1908, Germany committed genocide against the Herero, Mbanderu and Nama peoples in their colony of 'South-West Africa' (present-day Namibia). FA/Forensis partnered with genocide activists from descendant communities to begin to produce a body of digital evidence that can be leveraged in support of demands for land restitution and reparations.	

CHEMICAL FIRE AT MARATHON REFINERY		
DATE OF INCIDENT 24 Aug 2023 - 28 Aug 2023	LOCATION Garyville, Louisiana, USA	PUBLICATION DATE 09 Sep 2024
IN PARTNERSHIP WITH The Guardian, Earthjustice, Healthy Gulf, Louisiana Bucket Brigade, The Descendants Project, Boundless Community Action	ADDITIONAL FUNDING None	COLLABORATORS Together Louisiana
METHODOLOGIES 3D Modelling, Data Mining, Fieldwork, Fluid Dynamics, Geolocation, Ground Truth, Image Complex, Software Development, Simulation, Synchronisation	FORUMS Media, Web Platform	EXHIBITIONS None
PLAY VIDEO	LAUNCH PLATFORM	MEDIA & RESOURCES



FA reconstructs reality through 3D modeling and multi-source data. I translate this approach into comic language: using panel layouts to depict magnetic field disturbances as perceived by swallows, technical diagrams to reveal mirror satellite details.

## CONCLUSION

When a system involves multiple disconnected knowledge systems, design can reveal new relationships through fiction, juxtaposition, visualization, and reorganization of details, thereby revealing invisible power structures.

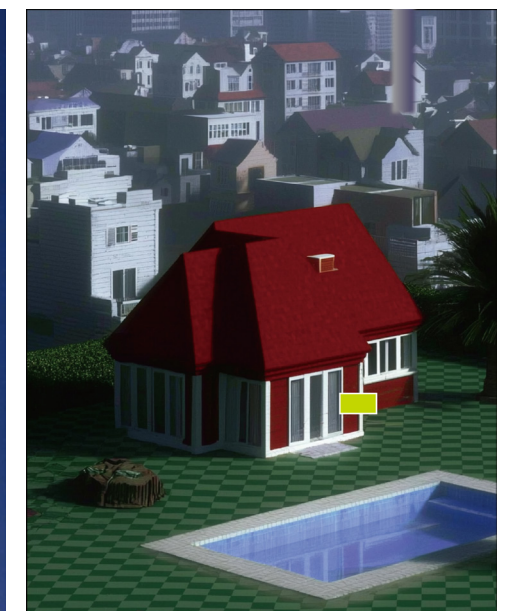
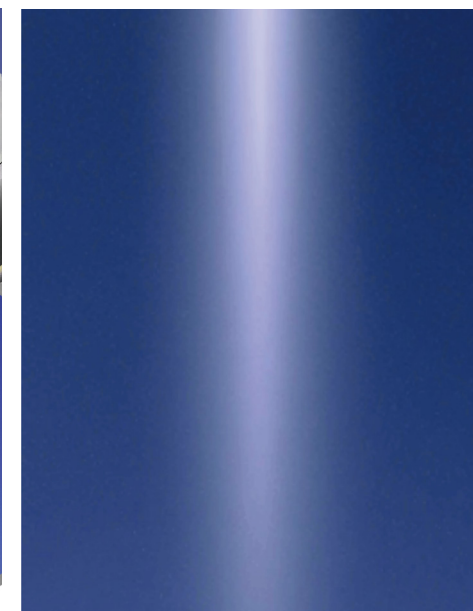
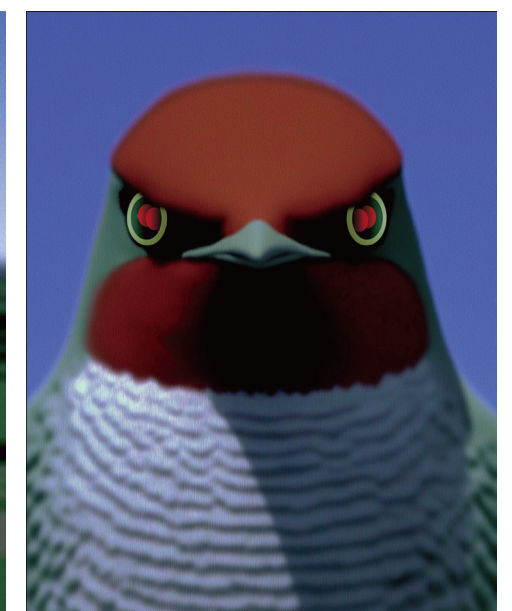
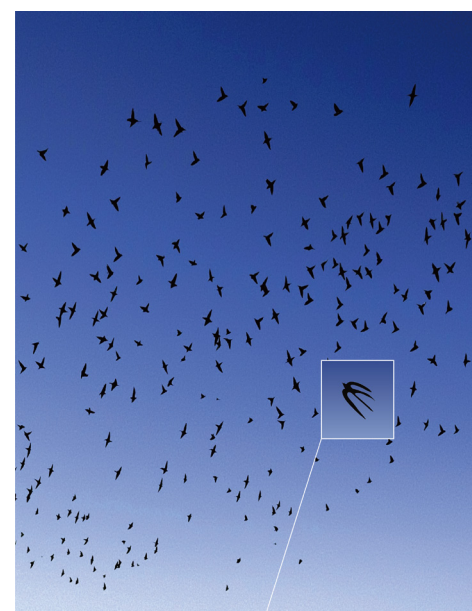
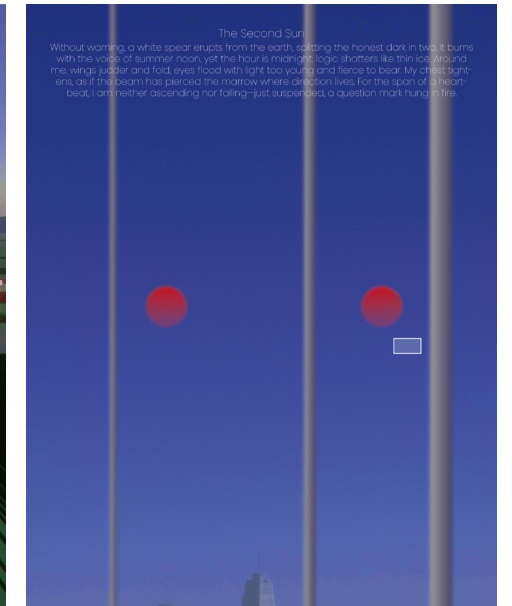
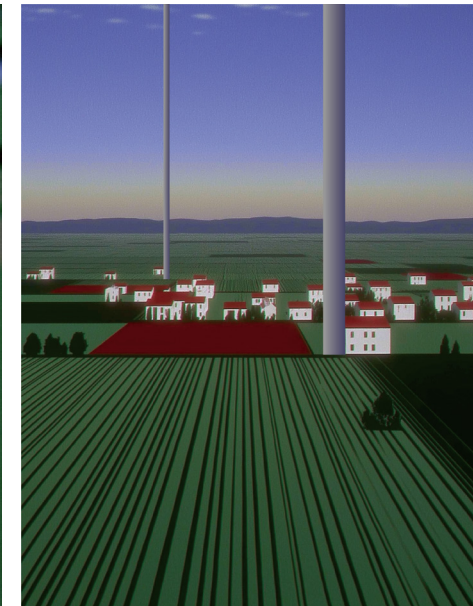
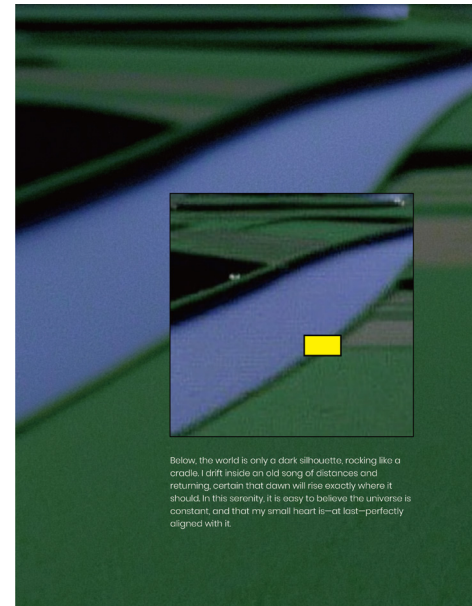
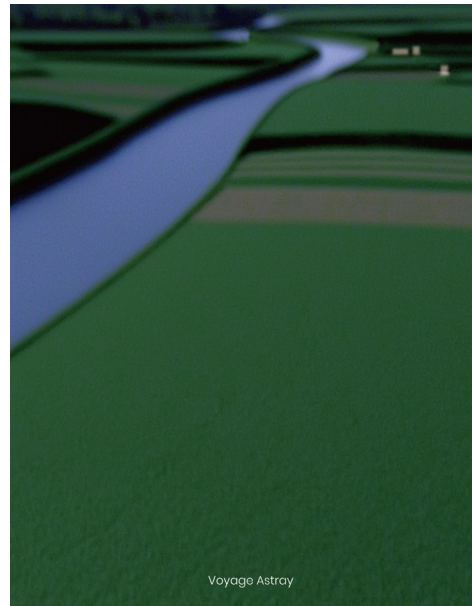
# WORK IN PROGRESS

## Voyage Astray

The project initially took the form of "Voyage Astray"—a single-perspective narrative following a swallow through migratory flight, documenting its encounter with technological apparatuses. The intention was to use the bird's embodied experience as a lens to witness orbital technology's impact.

The swallow's perspective alone cannot represent the systemic failure at stake. The bird has no access to orbital mechanics, regulatory gaps, or corporate decision-making.

Following Biemann's dual-narrative methodology and Haraway's situated knowledge framework, the project required a different strategy: presenting multiple incommensurable perspectives simultaneously, refusing synthesis, insisting on contradiction as content itself.



## DESIGN DECISION

At the core of my design practice is communicating ideas through form itself. So I designed two perspectives to exist side by side.

1.

First, I made up a fictional company called SOLESTIA as a carrier of design context.

2.

### **Technical publication**

It represents scientific-engineering knowledge systems: data, measurement, efficiency, control. This technical publication focuses on SOLESTIA's declaration and promotion, carefully explaining its technology, deployment blueprint, internal structure, subscription services, and sincere outlook letters to users.

3.

### **Swallow comic poems**

It represents non-human sensory systems: body, habitat, experience of time, ecological intelligence. Using the swallow's monologue and poems to record what happened when it encountered the "second sun" during its migration.

## TITLE: THE SECOND SUN

Since the beginning of human civilization, the sun has been free for everyone. No one can own it, control it, or price it. When the sun rises, the sky becomes bright; when the sun sets, the sky becomes dark. This rhythm has remained unchanged for tens of millions of years. But once humans create the "second sun", through mirror towers, floating platforms, and orbiting satellites, the ownership of light is transferred, and humans control a new natural resource.

### **Technical publication**

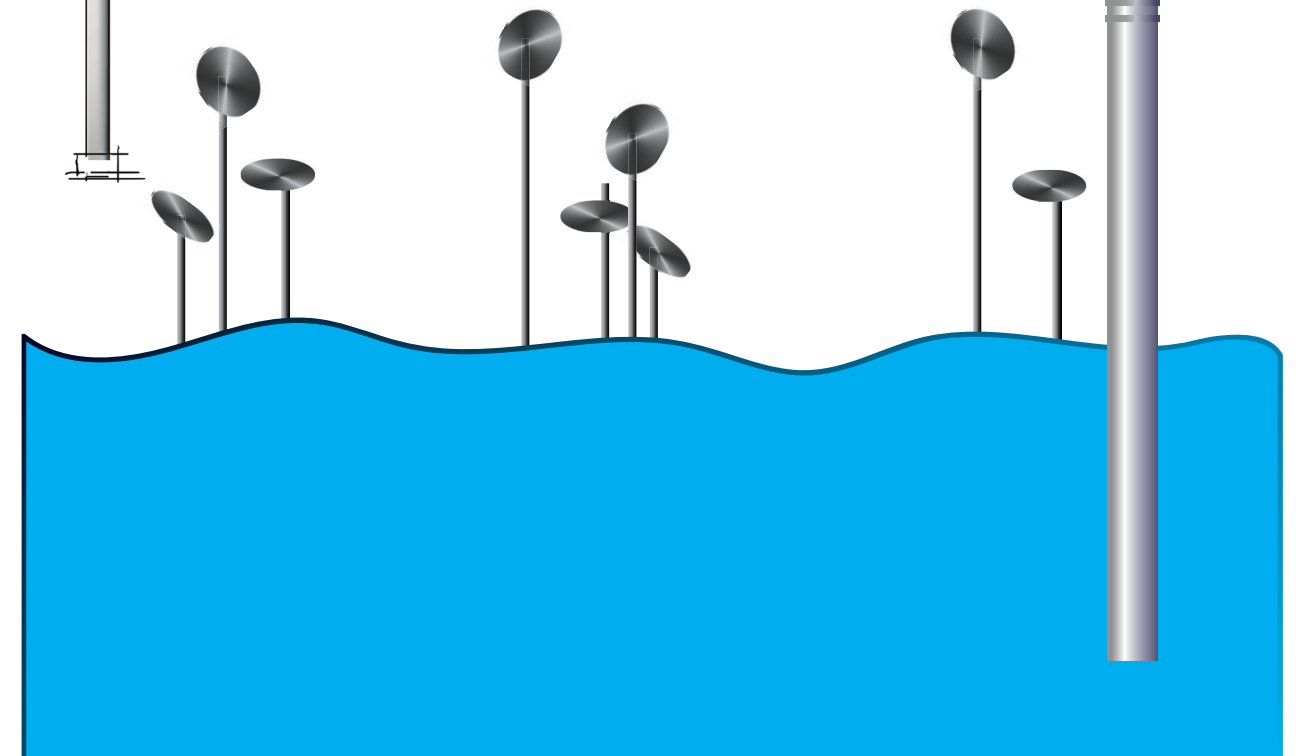
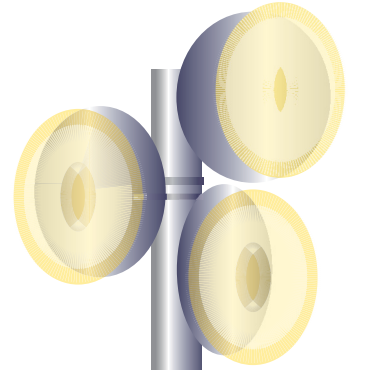
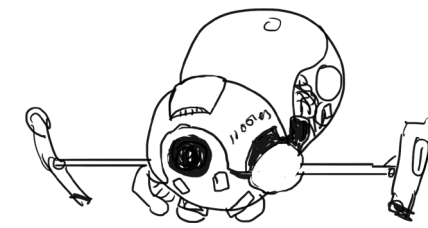
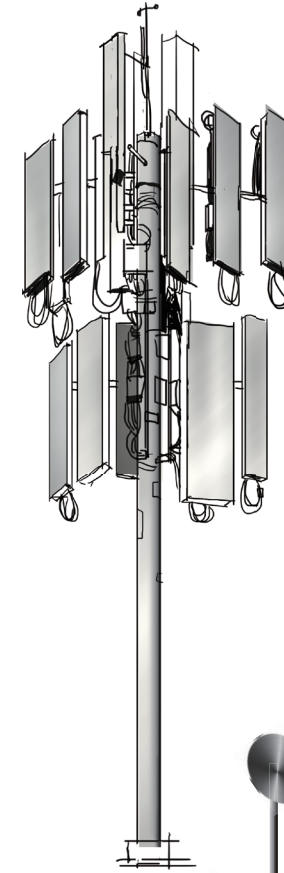
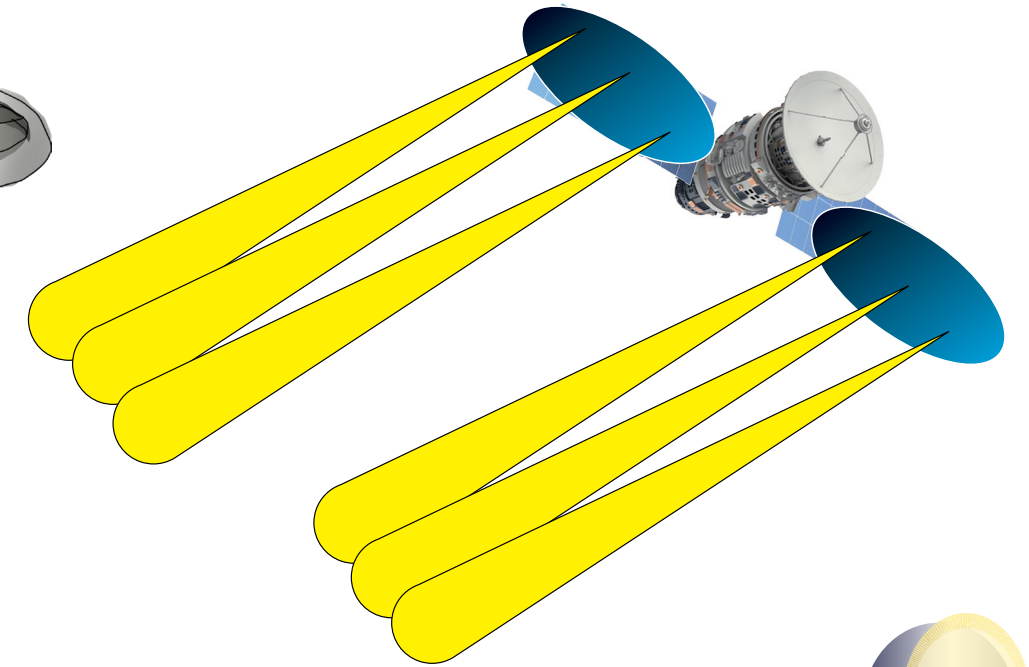
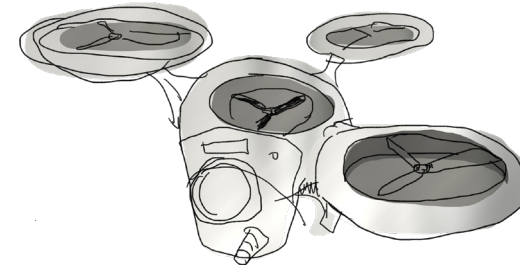
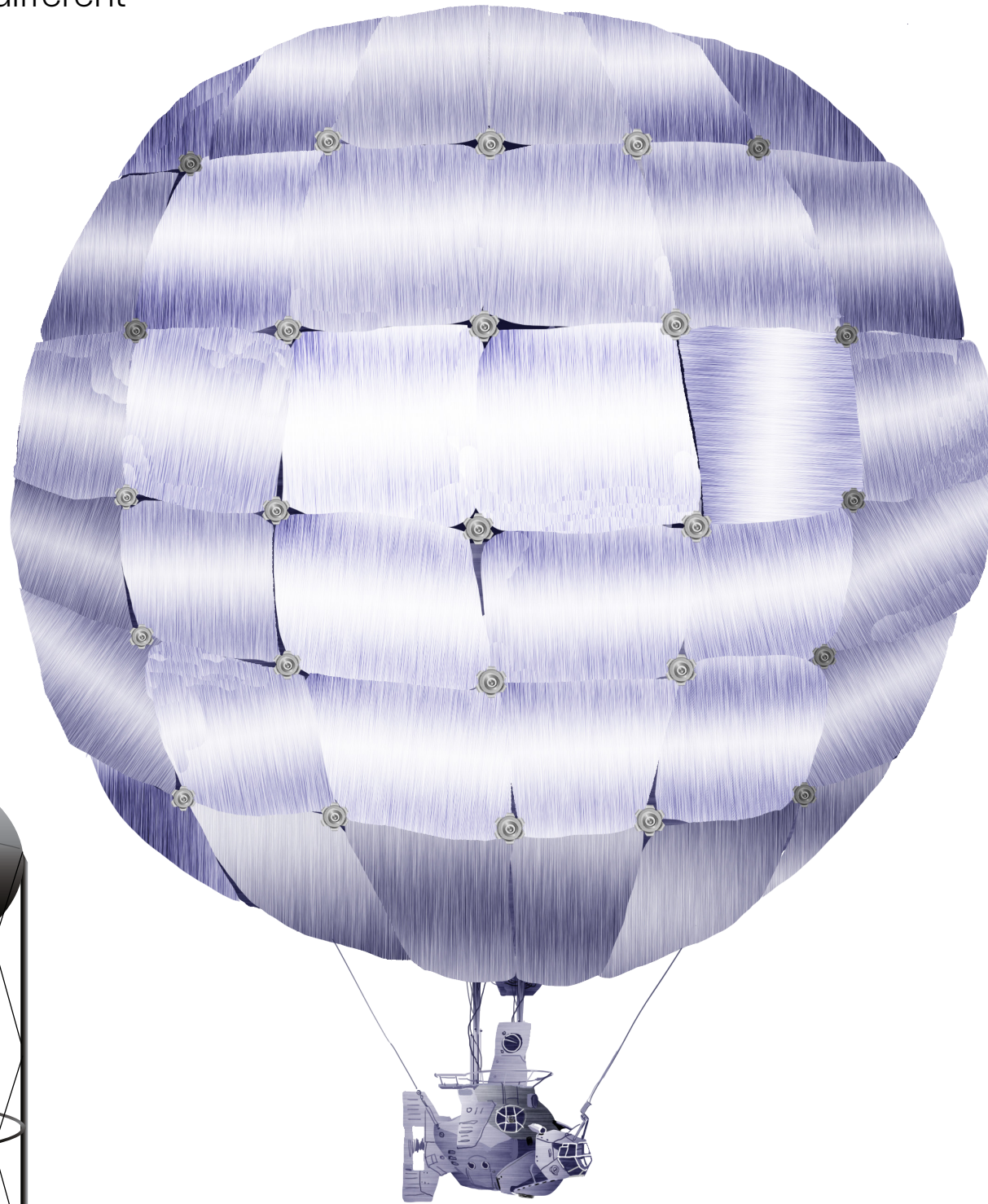
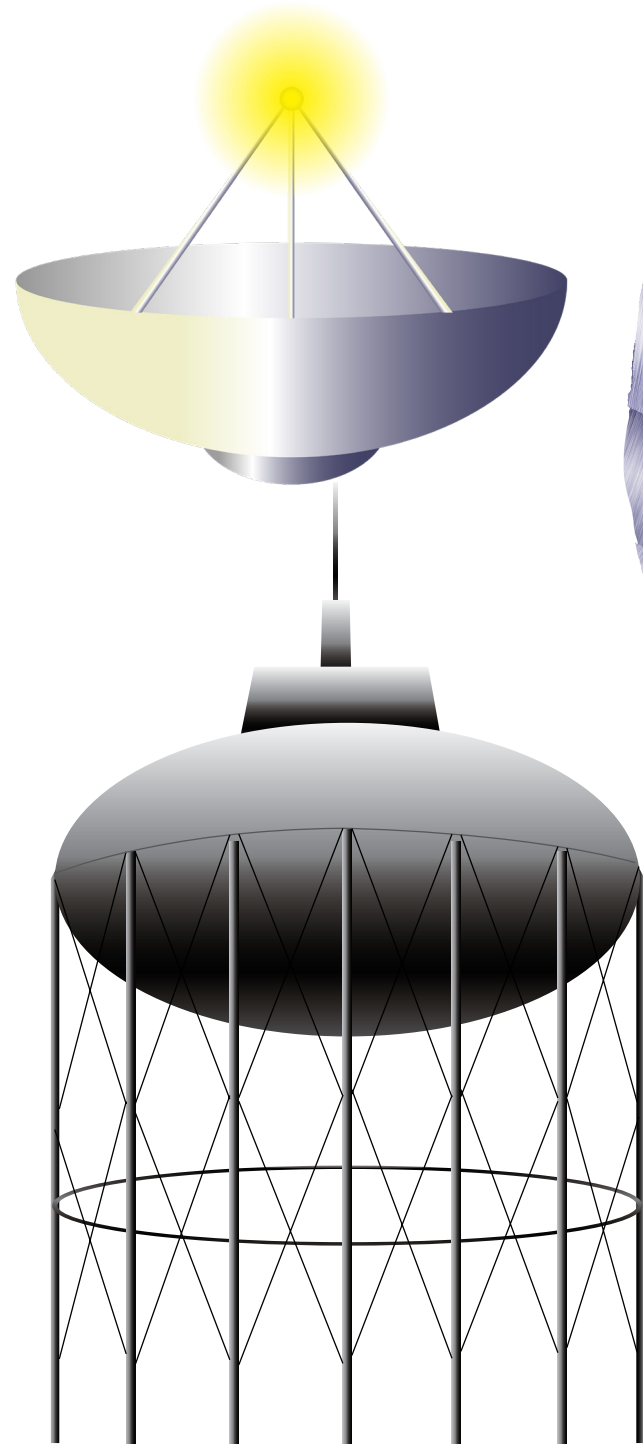
In SOLESTIA's corporate publications: "The Second Sun" is the pinnacle of technological achievement. Humans collect, store and redistribute sunlight through a system of mirror towers, floating platforms and orbiting satellites. In this narrative, humans become creators—we create the sun and elevate ourselves to the status of gods. This is a kind of confidence, but it also implies arrogance. Light is designed, operated, and commercialized. It becomes a tradable resource, a manifestation of power.

### **Swallow comic poems**

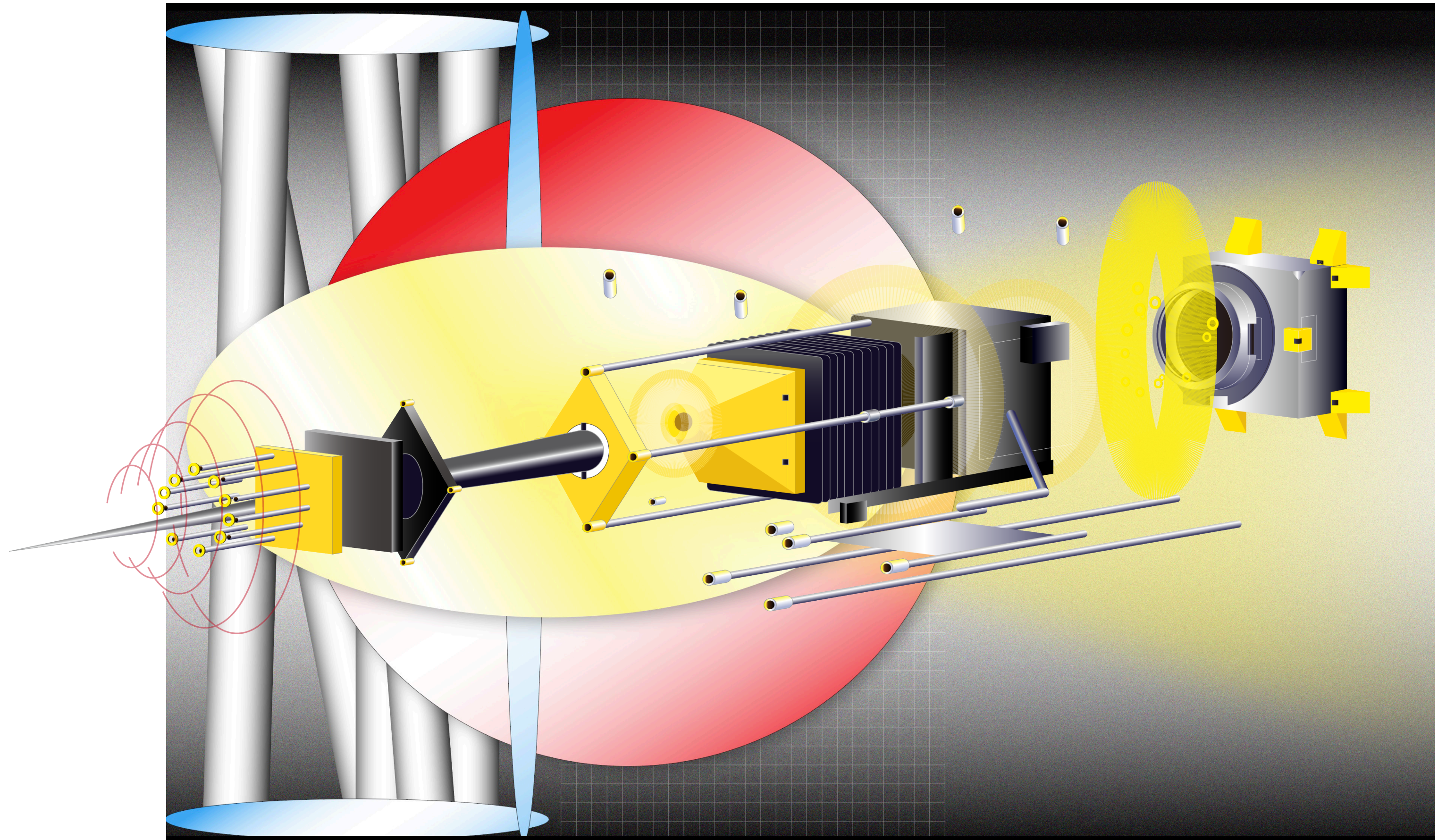
In the Swallow's Poetry comic: "The Second Sun" is a legend. It's something that groups pass down from generation to generation—an unfamiliar phenomenon encountered during their nocturnal migrations. It was white, moving, yet beautiful light. The swallows don't know what it is. They find it mysterious and beautiful at the same time.

# VISUAL EXPERIMENT

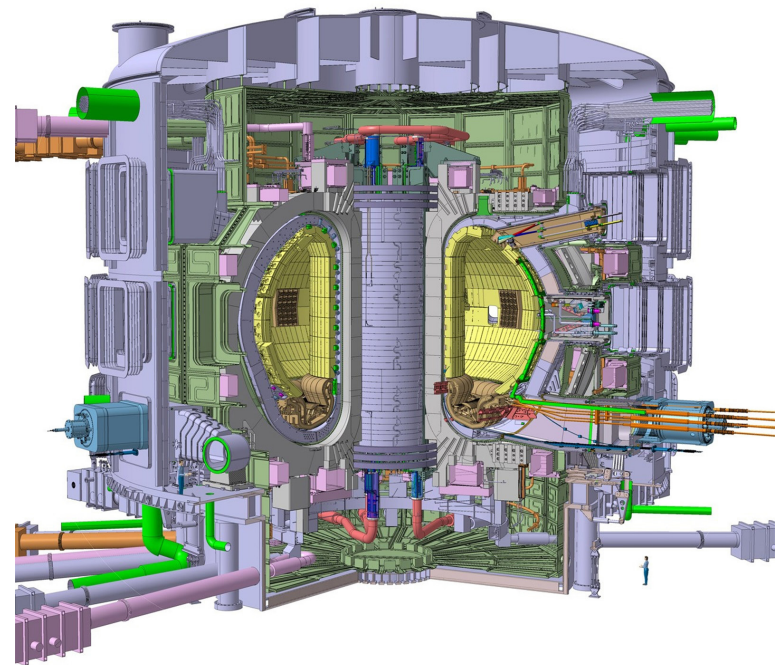
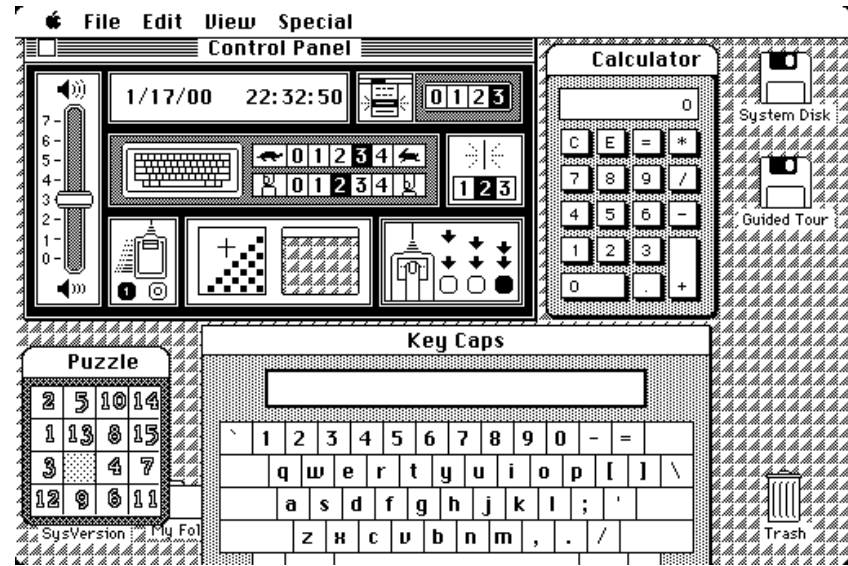
This part is the visual language experiment stage, I am trying different visual styles



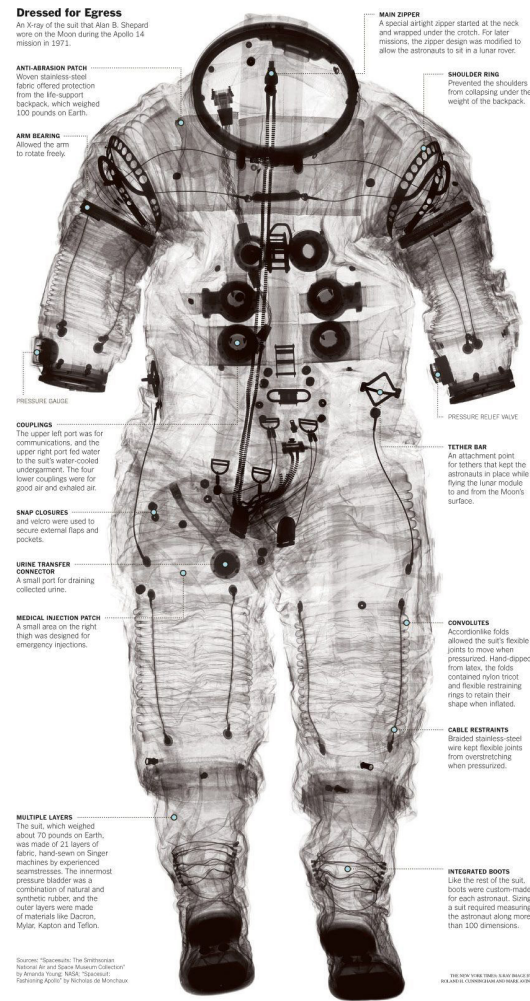
# VISUAL EXPERIMENT



# REFERENCES

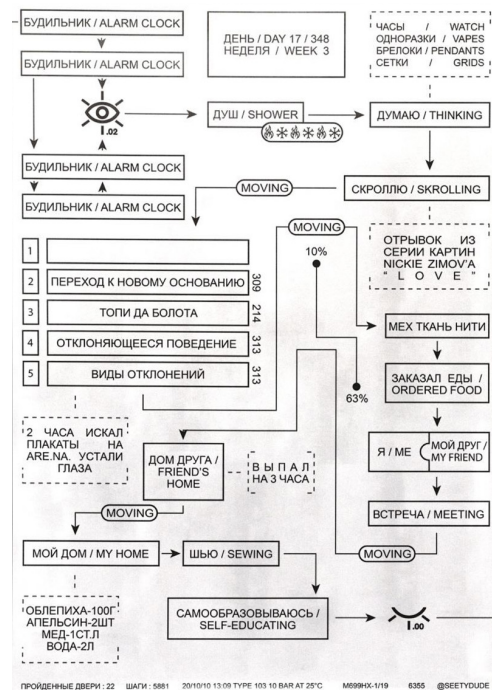


KIT - PL FUSION - What is Nuclear Fusion - ITER

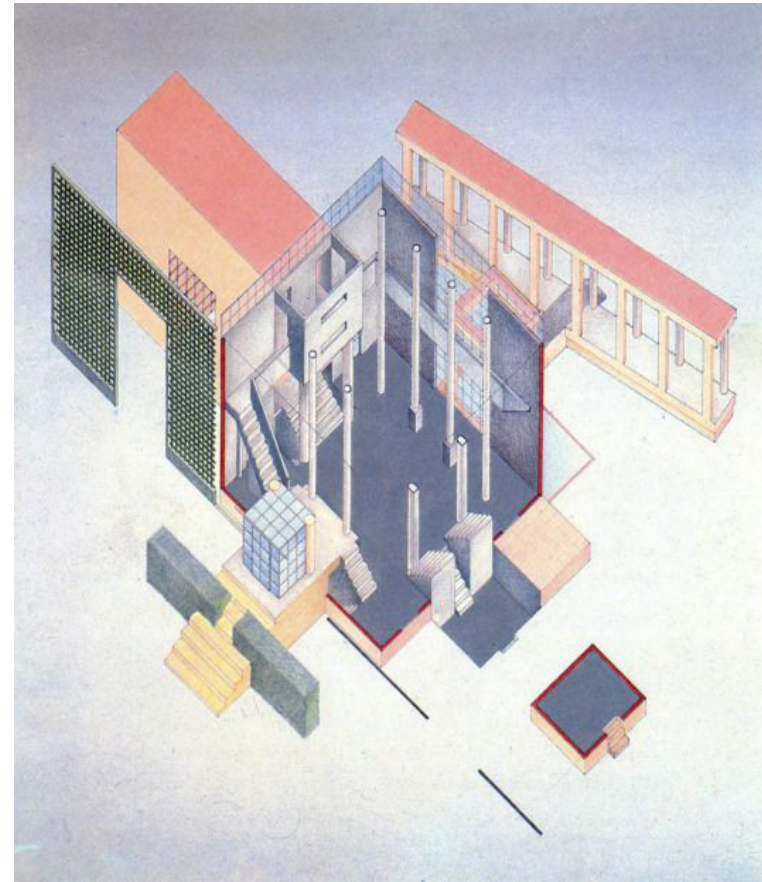


Source: "Perseus: The Smithsonian National Air and Space Museum's Apollo 14 Spacesuit" by Arnold Wong, MIAH, Smithsonian National Air and Space Museum

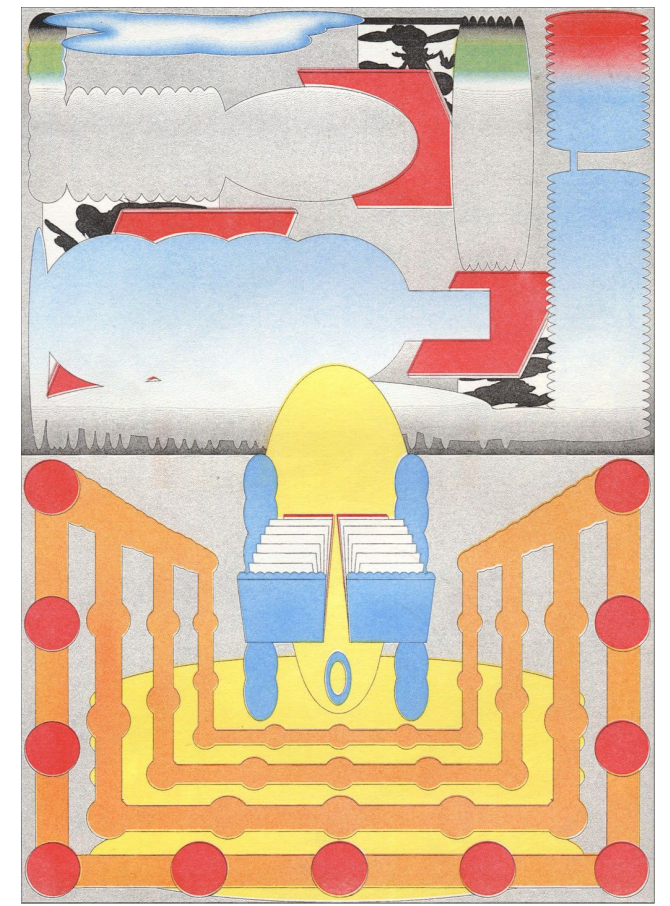
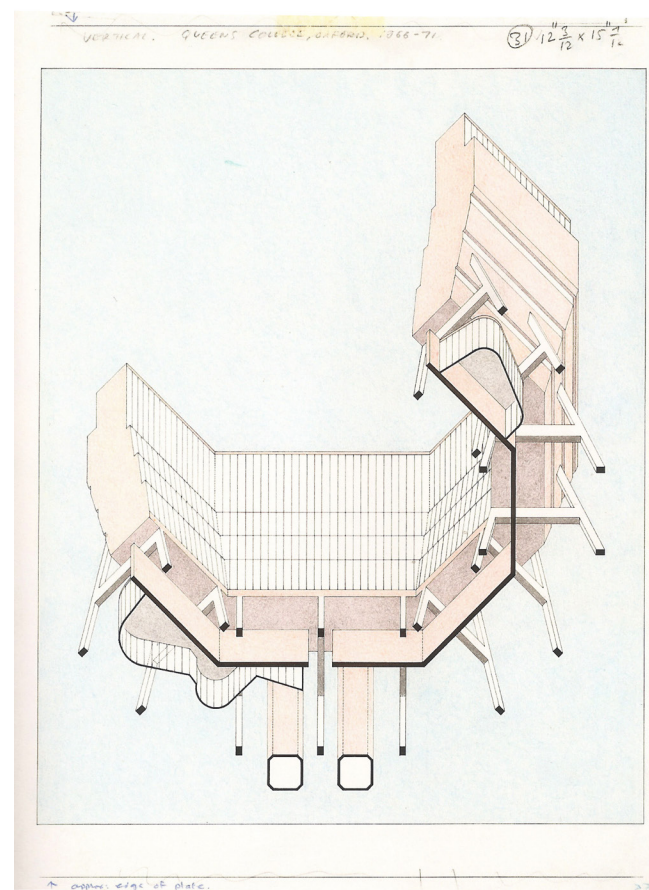
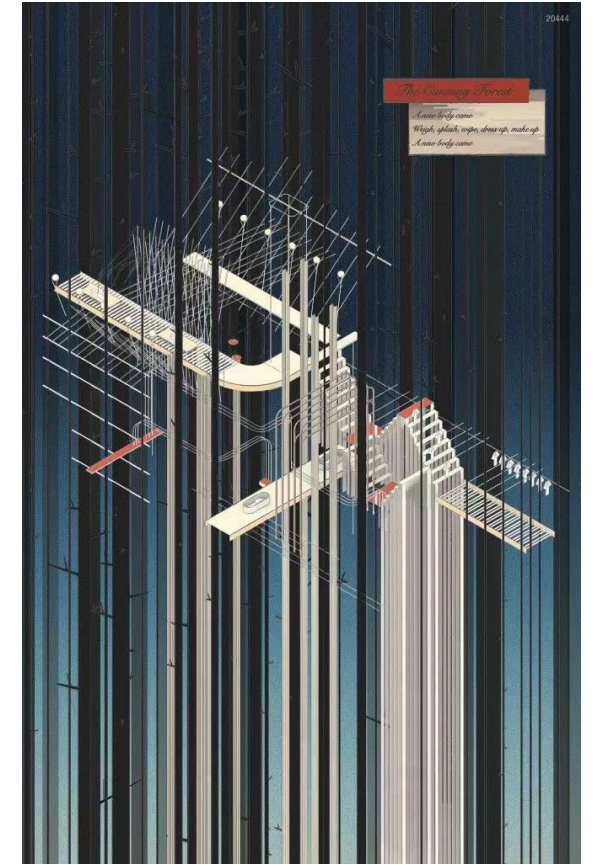
Spacesuit worn by Alan B. Shepard on the Moon during the Apollo 14 mission



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# SOLESTIA PUBLICATION

## What is SOLESTIA?

SOLESTIA Corporation is a global energy and aerospace consortium founded in 2038 to realize a single purpose: the continuous circulation of sunlight across the planet. Combining orbital engineering, photonic science, and environmental design, SOLESTIA develops infrastructures that extend the reach of the sun beyond geography, season, and weather.

## Table of Contents

### 1. THE ARCHITECTURE OF LIGHT

SOLESTIA was founded from a belief: let the sun reach us anytime, anywhere

### 2. GROUND COLLECTION NETWORK

Deserts, oceans, cities. Describe the working principle of the mirror field, the platform mechanism, and the day and night cycle of the city mirror tower.

### 3. ORBITAL REFLECTION NETWORK

127 low-orbit satellites. The orbital height is 600-800km, the mirror diameter is 150 meters, the coverage range is 200km, and the cycle is 90 minutes.

### 4. SOLAR TRANSMISSION PRINCIPLE

Photon transmission system. No energy loss, no weather dependence. Sunlight circulates as infrastructure.

### 5. LABOUR ROLES

Four positions: Light Shepherd, Mirror Keeper, Darkness Broker, and Orbital Technician.

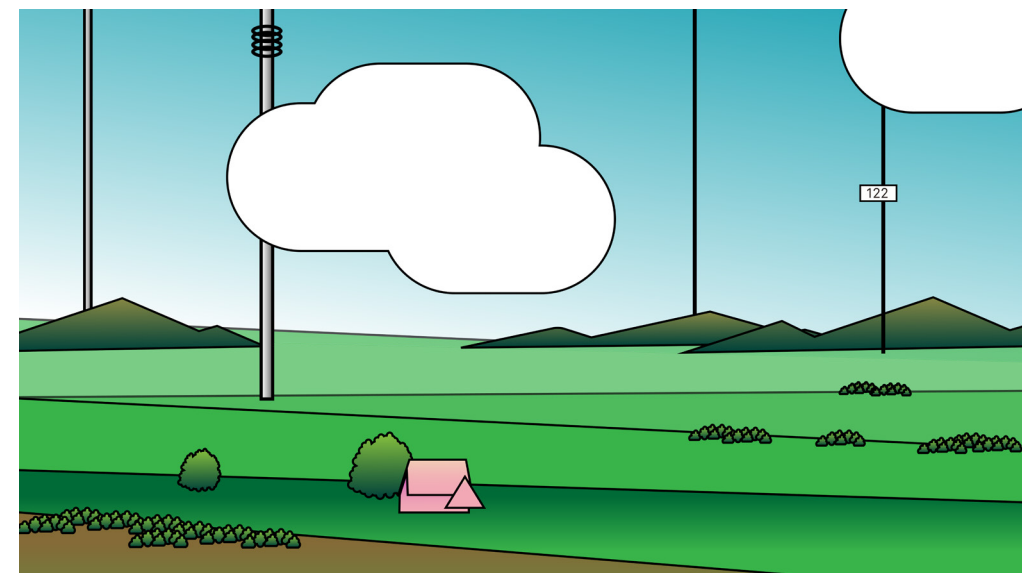
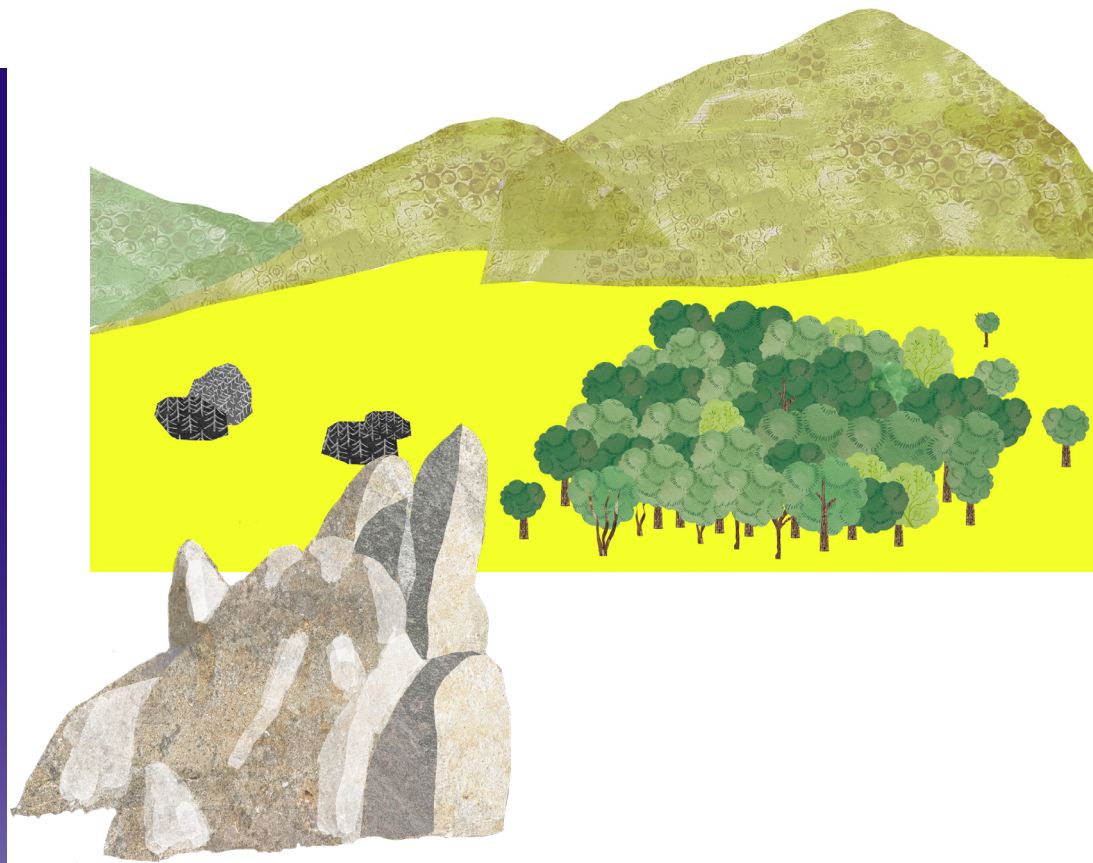
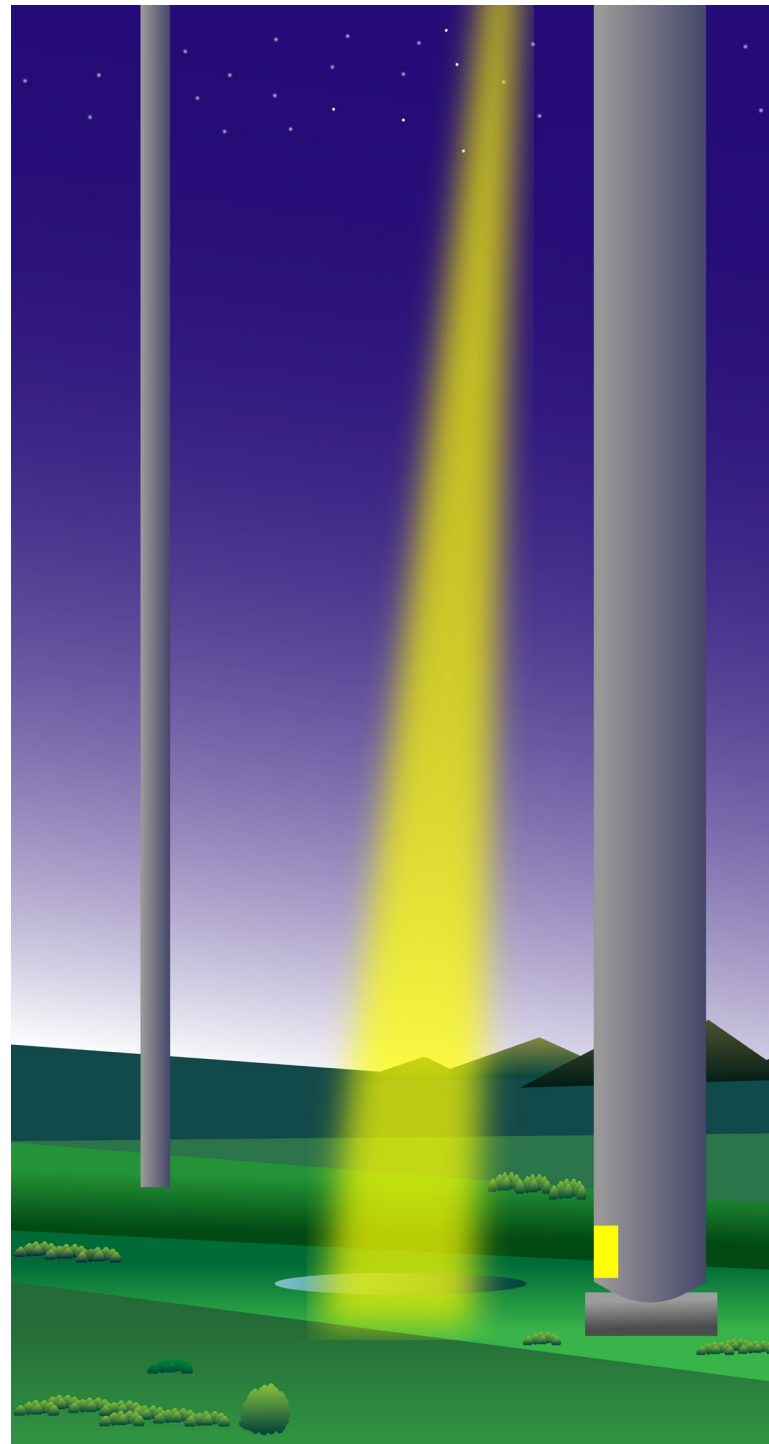
### 6. SOCIAL APPLICATIONS

Commercial applications. Dawn Light (Personal Awakening), Golden Hour (Home Extension), Eternal Light (Permanent Illumination), Sky Dominion (Regional Power).

### 7. EPILOGUE

Letter to the future. About the meaning of natural sunlight, and what the second sun really means.

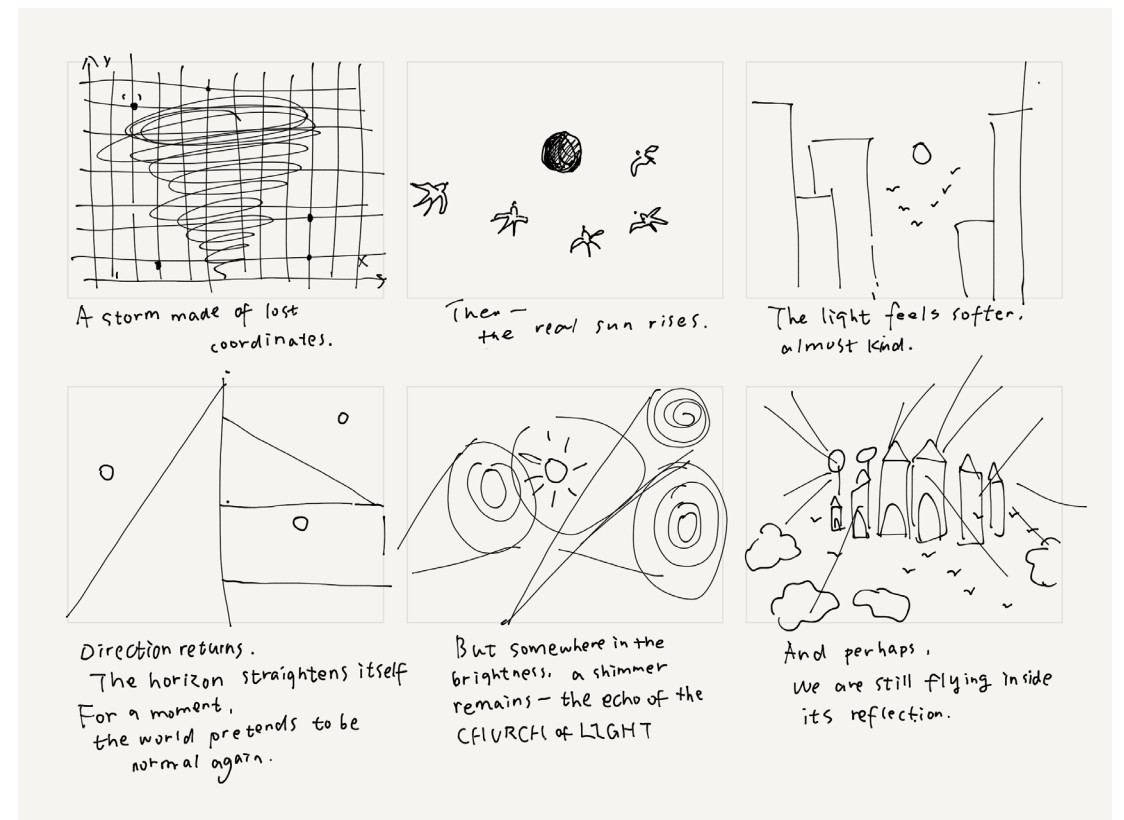
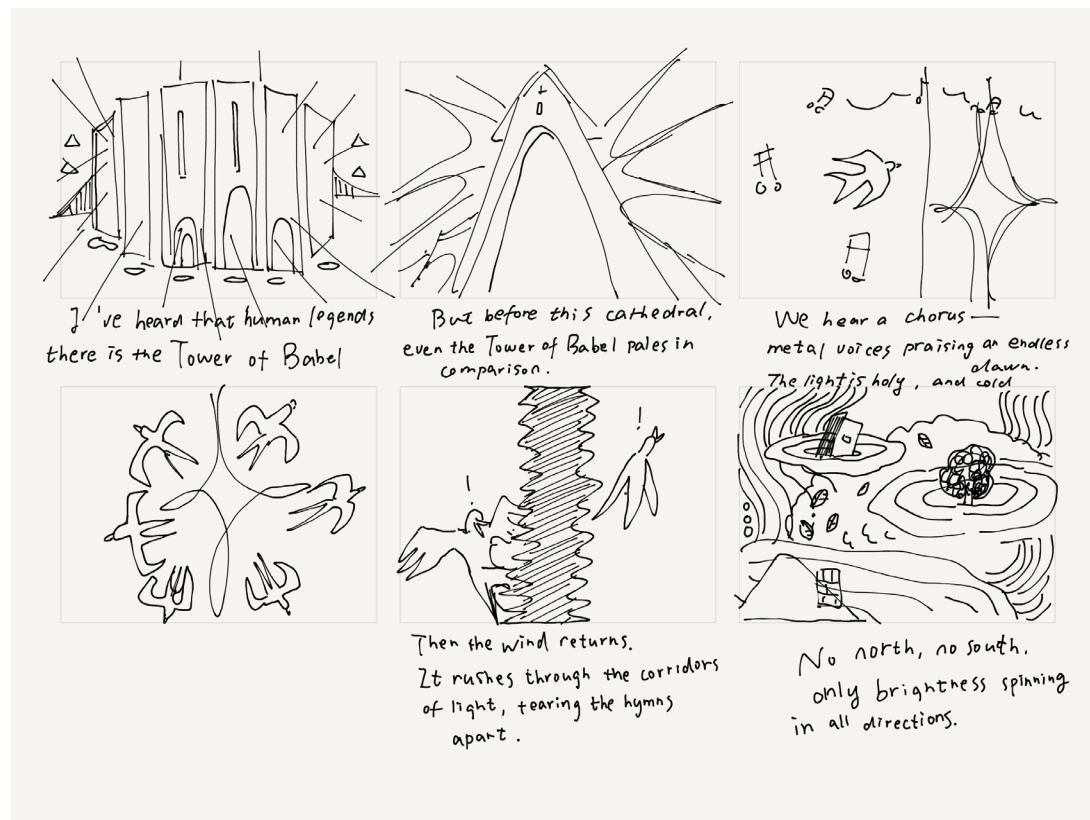
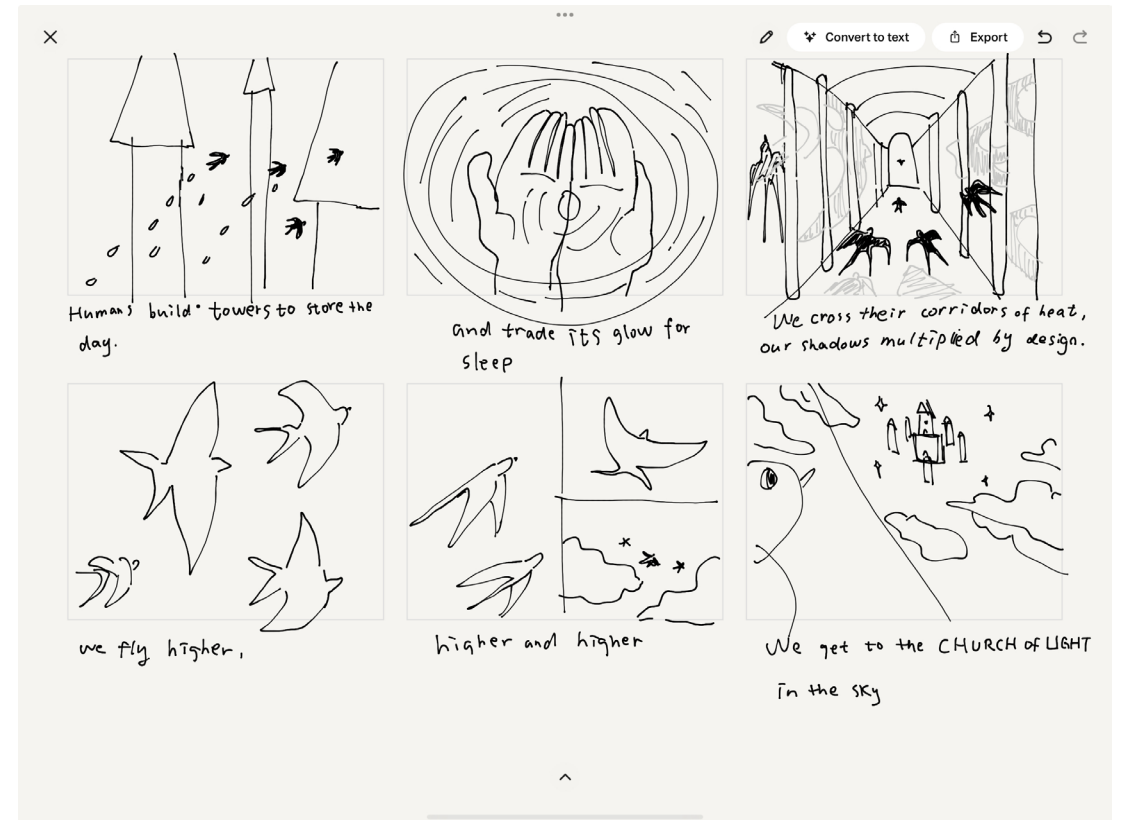
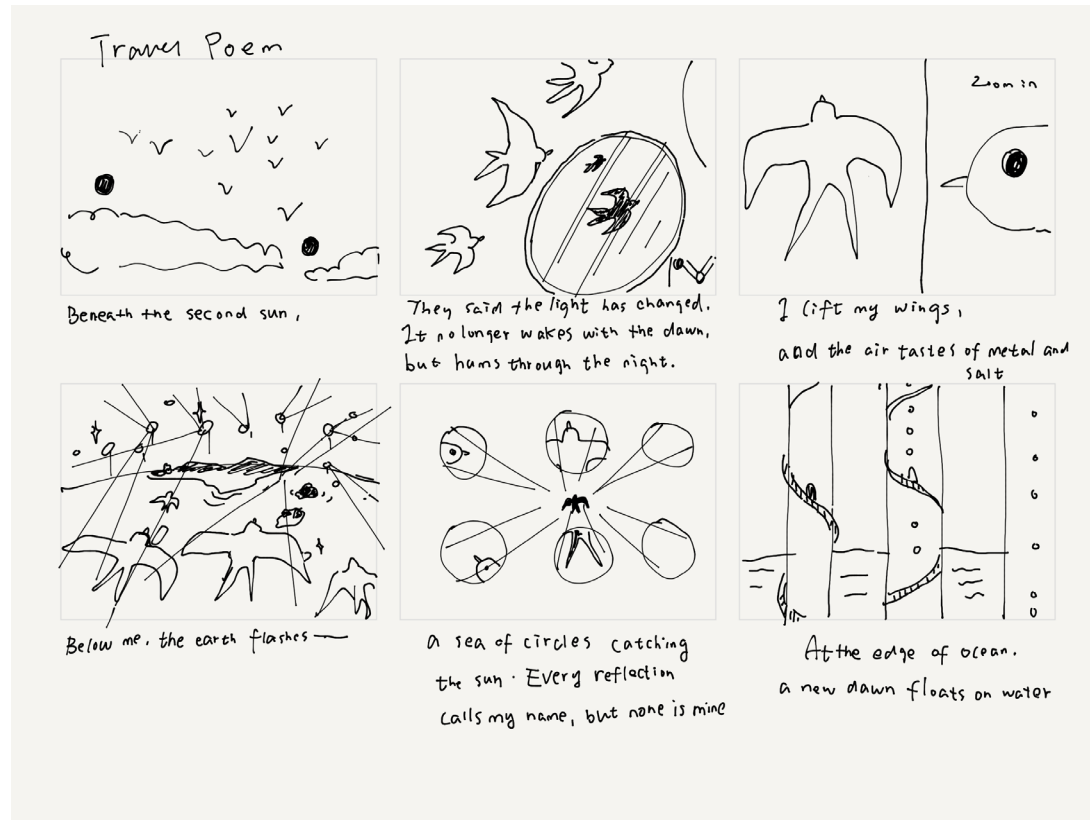
# VISUAL EXPERIMENT



# SCRIPT

This is a non-linear narrative about European barn swallows encountering the "second sun" during migration.

During the flight, the swallows passed by the tall towers built by people, encountered strange lights at night, passed by the hot corridor of light, and flew higher and higher, but unexpectedly found that they had arrived at the human church of light. It was so beautiful that the swallows wandered in it and gradually lost their way. When the real sun rose, everything returned to normal, but this may still be the illusion of the church of light.



## POEM

Beneath the second sun,  
They said the light has changed.

It no longer wakes with the dawn,  
but hums through the night.

I gift my wings,  
and the air tastes of metal and salt.  
Below me, the earth flakes

A sea of circles catching the sun.  
Every reflection calls my name, but none is mine.

For a moment, I am beautiful in this new sun.  
Brighter than my ancestors ever were.

Humans build towers to store the day.

And trade its glow for sleep

We cross their corridors of heat,  
our shadows multiplied by design.

We fly higher,  
Higher and higher

We get to the CHURCH of LIGHT in the sky

I've heard that human legends  
there is the Tower of Babel  
But before this cathedral,  
even the Tower of Babel pales in comparison.

We hear a chorus—metal voices praising an endless  
The heights holy, and cold

Then the wind returns.  
It rushes through the corridors  
of light, tearing the hymns apart.

Then the wind returns.  
It carries both the hymns and our old songs,  
tangled together.

We cannot tell them apart anymore.  
No north, no south,  
only brightness spinning in all directions.  
A storm made of lost coordinates.

the real sun rises.  
The light fades softer, almost kind.

The horizon straightens itself.  
For a moment,  
the world pretends to be normal again.

But somewhere in the brightness, a shimmer  
remains—the echo of the CHURCH of LIGHT

But somewhere in the brightness, a shimmer remains.

Is it the echo of the Church of Light?  
Or is it the moon, waiting?

We do not know.  
We fly.

## CURATE

## My Design idea

Time and Change (Temporal Narratives) Students' works often focus on processes, systems, and future imagination. The theme can be around "Unfinished", "Ongoing Stories" and "Time Capsule" because some of the students are paying attention to current social media, some are paying attention to the changes brought about by memory and the passage of time, and some are exploring the relationship between nature, technology and human beings.

After communication with teammates

## Design Concept



Where We Connect is a visual system exploring how location, community, and network shape the way we design and understand the world. It's based on the idea of situated design – that knowledge is always created from a specific context rather than from a neutral or universal position. The visual identity focuses on connection, context, and relationships in design.  
Main Visual

The title "Where We Connect" represents the meeting point between structure and human connection.

Each sub-poster focuses on one layer:

- L – Location
- C – Community
- N – Network

## REFERENCES & BIBLIOGRAPHY

### Theory

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Latour, B. (2005) *Reassembling the Social: An Introduction to Actor-Network-Theory*. Oxford: Oxford University Press.

Dunne, A. and Raby, F. (2013) *Speculative Everything: Design, Fiction, and Social Dreaming*. Cambridge, MA: MIT Press.

### Technology & Space Law

Reflect Orbital (2023-2024) Company website and FCC regulatory filings.

Communications Commission (2024) *Satellite Applications and Filings Database*.

United Nations (1967) *Outer Space Treaty [Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies]*. New York: UN.

United Nations Office for Outer Space Affairs (UNOOSA) (2021) *'International Space Law Explained'*, International Civil Aviation Organization (ICAO) (2022) *Procedures for Air Navigation Services*. Montreal: ICAO.

### Ecological Impact

Bennie, J., Davies, T. W., Duffy, J. P., Inger, R. and Gaston, K. J. (2014) 'Contrasting Trends in Light Pollution across Europe Based on Satellite Observed Night Time Lights', *Scientific Reports*, 4(4322), pp. 1-6.

Davies, T. W., Duffy, J. P., Bennie, J. and Gaston, K. J. (2014) 'The Nature, Extent and Ecological Implications of Marine Light Pollution', *Frontiers in Ecology and Environment*, 12(6), pp. 347-355.

Gaston, K. J., Bennie, J., Davies, T. W. and Hopkins, J. (2013) 'The Ecological Impacts of Nighttime Light Pollution: a Mechanistic Appraisal', *Biological Reviews*, 88(4), pp. 912-927.

### Data Sources

NASA Satellite Tracking Database

ESA (European Space Agency) Earth Observation Data

FLAP Canada (Lights Out Program): Fatal Light Awareness Program

Living Bird: Cornell Lab of Ornithology publication

Thanks for watching!