

INTRODUCTION &
ASTRONOMY

JOHNNY B. GOODE

Calibration Circle
Solar Location Map
Dictionary—Mathematical Definitions

Dictionary—Physical Unit Definitions
The Solar System I
The Solar System II

The Sun
Solar Spectrum + Music of the Spheres
Mercury

Mars
Jupiter
Earth + Volcanoes, Earthquakes, Thunder

Egypt, the Red Sea, the Sinai Peninsula

GEOGRAPHY

FLOWING STREAMS

Diagram of Continental Drift
Structure of the Earth

Heron Island
Seashore

Snake River and the Grand Tetons
Sand Dunes + Wild Dog

Monument Valley
Sunset

BIOLOGY

INITIATION SONG

DNA Structure and Replication I
DNA Structure and Replication II
DNA Structure and Replication III
Cell Division + Mud Pots

Human Anatomy I + Life signs
Human Anatomy II
Human Anatomy III
Human Anatomy IV

Human Anatomy V
Human Anatomy VI
Human Anatomy VII
Human Anatomy VIII

Diagram of Human Sex Organs
Conception Silhouette
Conception
Fertilized Ovum

Fetus Silhouette
Fetus
Silhouette of Male and Female + Fire and speech

HUMAN FAMILY &
CULTURE

EL CASCABEL

Birth
Nursing Mother + Mother and Child
Father and Child

Group of Children + Footsteps, Heartbeats, Laughter
Family Portrait Silhouette
Family Portrait

Man from Guatemala
Dancer from Bali
Andean Girls

Old Man From Turkey
Mountain Climber
Gymnast Cathy Rigby

Olympic Sprinters
Japanese Schoolroom
Children with Globe

FAUNA

IZIEL JE DELYO
HAGDUTIN

Flying Insect
Diagram of Vertebrate Evolution
Seashell

Dolphins
School of Fish
Tree Toad + Crickets, Frogs

Crocodile
Eagle + Birds, Hyena, Elephant
Waterhole

Scientists and Chimpanzees + Chimpanzee
Bushmen Hunters Silhouette
Bushmen Hunters

Elephant
Old Man in a Field
Museum

FOOD, FLORA, &
AGRICULTURE

KINDS OF FLOWERS

Forest Scene with Mushrooms
Leaf
Fallen Leaves

Sequoia and Snowflake
Tree and Daffodils
Cotton Harvest + Herding Sheep, Blacksmith Shop...

Man with Grapes
Supermarket
Diver and Fish

Fishing Boats + Wind, Rain, Surf
Cooking Fish
Chinese Dinner Party

Demonstration of Eating, Licking, and Drinking

ARCHITECTURE

TCHAKRULO

Great Wall of China + The First Tools
Construction Scene (African)
Construction Scene (Amish)

House (Hut)
House (New England Frame)
House (Modern)

House Interior
Taj Majal
English City (Oxford)

Boston from the Charles River
UN Building (Day)
UN Building (Night)

Sydney Opera House
Seashore

TECHNOLOGY &
CONCLUSION

QUEEN OF THE NIGHT

Thai Craftsman
Artisan with Drill
Factory Interior + Morse Code
X-ray of Hand

Woman with Microscope
Street Scene (Pakistan)
Street Scene (India)
Highway

Golden Gate Bridge
Train
Airplane in Flight
Airport

Antarctic Sno-Cat
Radio Telescope
Arecibo Observatory
Page from Book

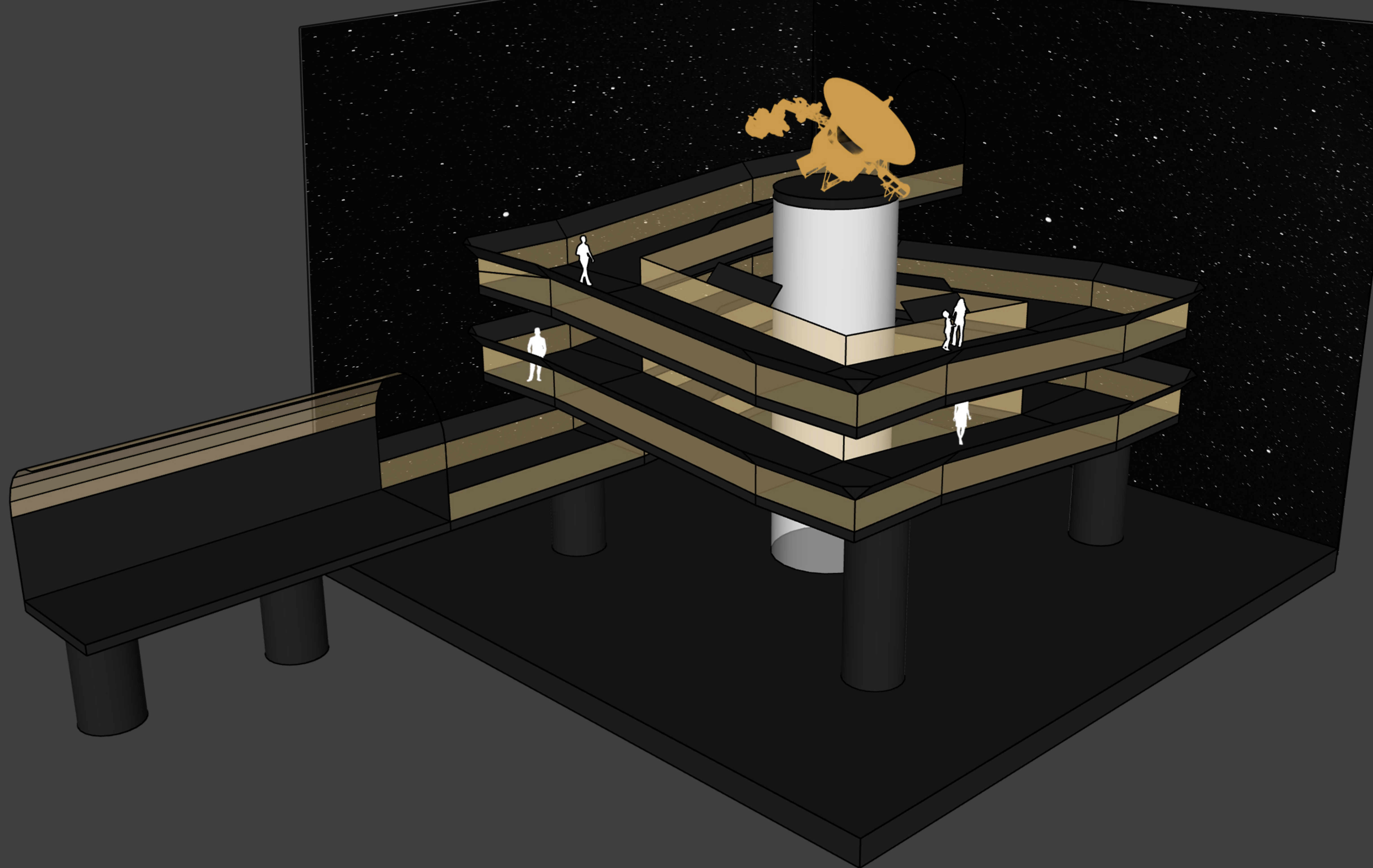
Astronaut in Space
Titan Center Launch + Transportation Sequence
String Quartet
Score of Quartet and Violin + Pulsar

THE RECORD REVIVED

The Record Revived divides the golden record's contents into greetings, images, and sounds, and adds additional contextual information to help viewers understand 20th-century society.

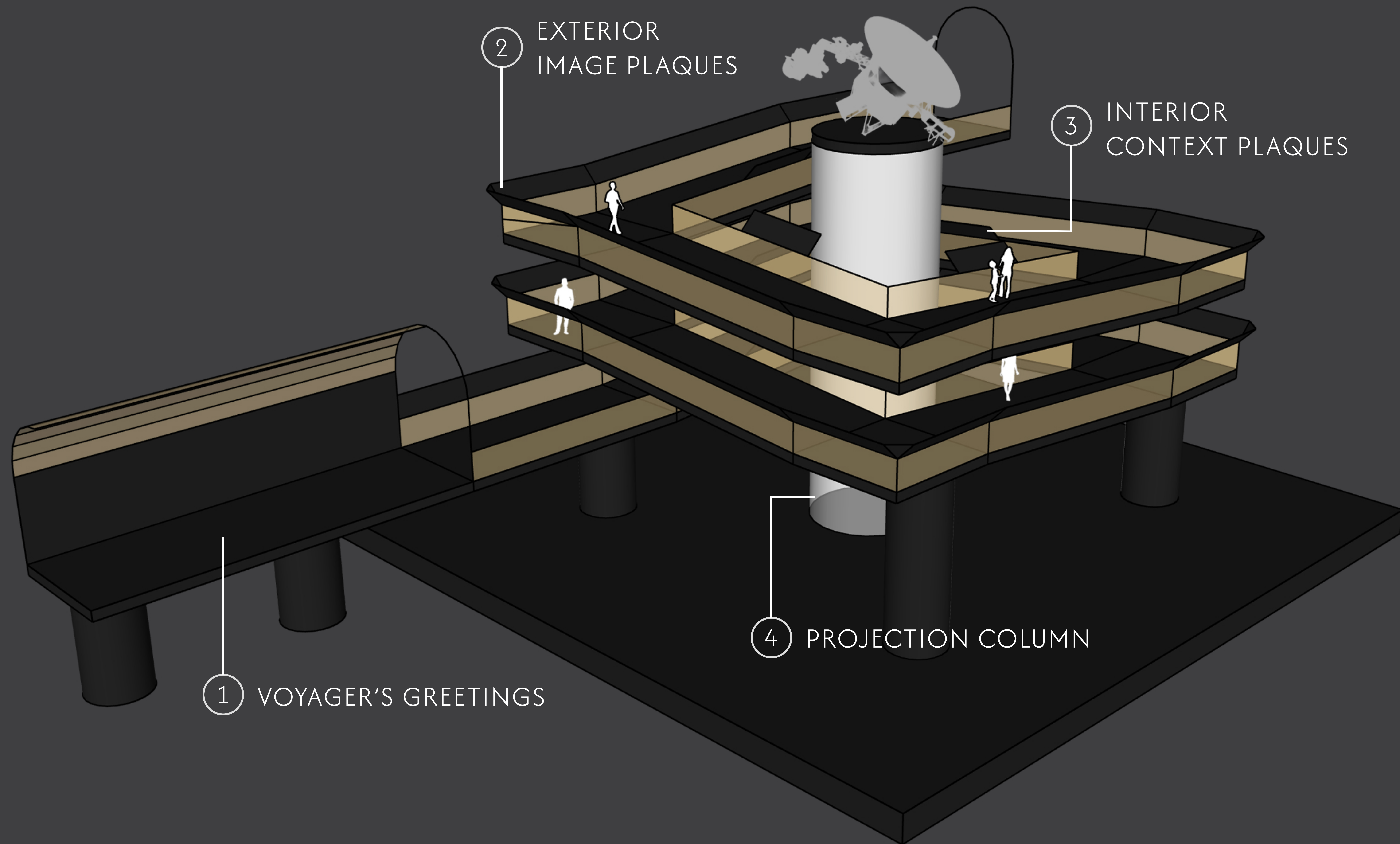
The record's images are divided into eight sections, advancing upwards along the ramp. A different track of the record's music plays in each section.

The exhibition also includes the remains of the recovered Voyager 2 atop the central column, as well as shifting stars projected onto the walls.



THE RECORD
REVIVED

- ① VOYAGER'S GREETINGS
- ② EXTERIOR IMAGE PLAQUES
- ③ INTERIOR CONTEXT PLAQUES
- ④ PROJECTION COLUMN



1

The greetings are memorialized by embossed plaques on both walls, echoing the sentiments of headstones; by the time the record would be found, many of these languages are predicted to die out.

The Voyager Golden record contains greetings in 54 different languages, among them messages of hope, goodwill, and blessings.

Each greeting has been engraved the way it appeared in the written greeting log compiled for Carl Sagan's *Murmurs of Earth*.

 RECORD AUDIO:
GREETINGS

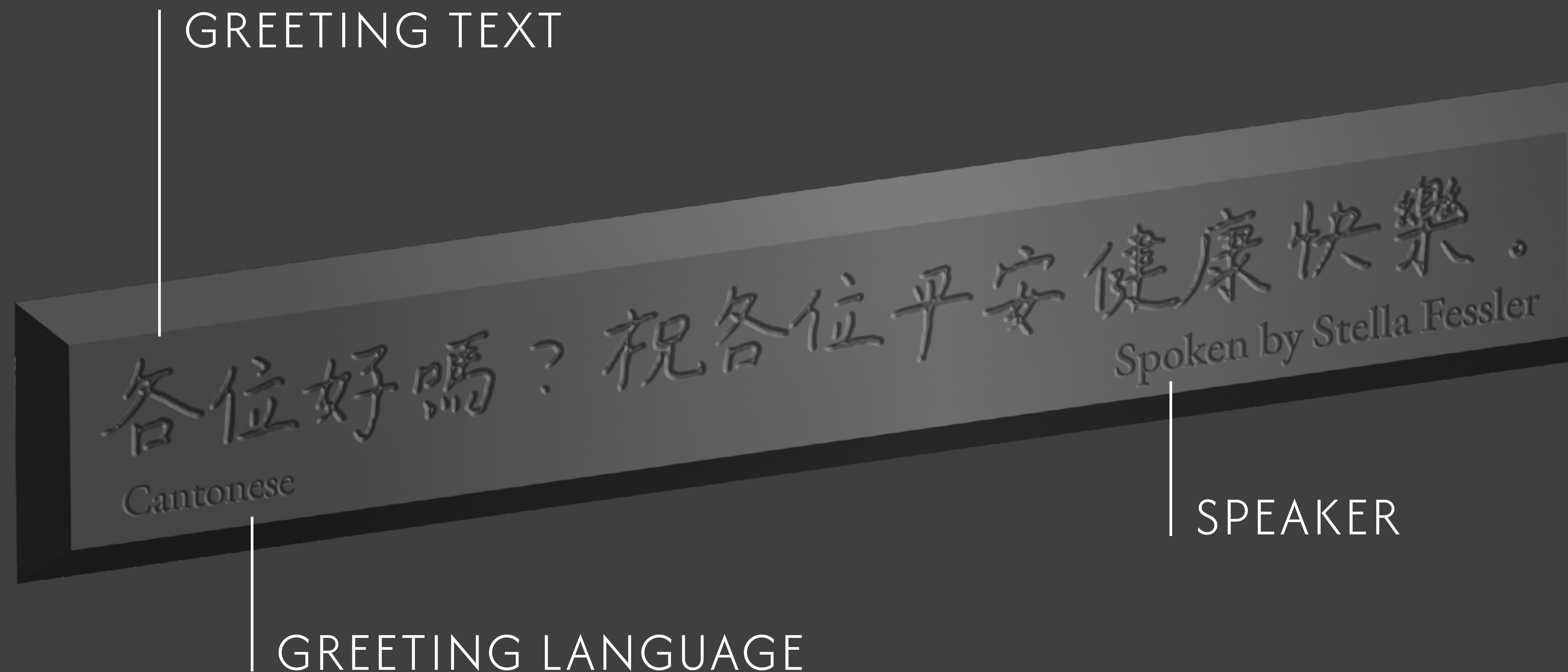
 RECORD AUDIO:
GREETINGS

THE RECORD REVIVED

① VOYAGER'S GREETINGS

Plaques include the typed or written greeting from the original greeting log compiled when the record was made, along with the language of the greeting and speaker's name in English.

Greetings are not translated, giving viewers the experience extraterrestrials could have had upon hearing the record; listeners are left to deduce meaning from tone of voice in the absence of translation.

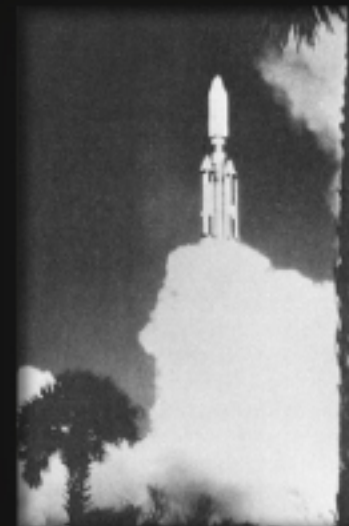


THE RECORD REVIVED

2 EXTERIOR IMAGE PLAQUES

Upon exiting the greeting hallway, viewers enter a wide, open space reminiscent of the cosmos traveled by Voyager 2.

The 116 images on the record wind upwards, from left to right, facing outwards on the platform. Viewers ascend the spiral towards the recovered probe, they travel through eight sections of images grouped by topic. In each section, a different track of the record's music plays from nearby hidden speakers.



TITAN CENTAUR
LAUNCH
1975

AUDIO: TRANSPORTATION SEQUENCE

The record's images of transportation are paralleled by a chronological audio of humanity's progress in the field. Horses and carts evolve into trains, trucks, and cars, before culminating in the launch of the Saturn 5 rocket.

PLAY AUDIO



STRING QUARTET
C. 1945-1980



SCORE AND
VIOLIN
C. 1977

AUDIO: PULSAR

The final audio sequence on the record's sound essay is a radio wave emission from a pulsar. Humanity's 20th century technological journey resulted in their ability to record this type of sound, which, fittingly, sounds almost like a phonograph needle trailing off of a record.

PLAY AUDIO

SPECIAL THANKS
BRIAN SLAWSON
DAVID CLULOW
UNIVERSITY
OF FLORIDA

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THE RECORD REVIVED

2 EXTERIOR IMAGE PLAQUES

Here, plaques for the final section, Technology, are shown. Plaques are laid out to fit along the platform’s outer edge.

Certain images have additional context provided to enhance 24th century viewers’ understanding, or have been paired with snippets of the record’s audio essay, played aloud by pressing a button.

or headphones, by the time the

These pairings immerse viewers in 20th century life while still leaving many aspects of the record’s images up to interpretation.

SECTION EIGHT
TECHNOLOGY

The record contains a semi-chronological series of images exploring humanity's technological journey. Beginning with the invention of tools, the images span the industrial revolution, transportation advances, and finally, spaceflight. The concluding images on the record both relate to music, intended to show the role that it plays in our culture.

SECTION MUSIC:
QUEEN OF THE NIGHT



THAI CRAFTSMAN
C. 1977

CONTEXT:
SCULPTURE

Technology begins its place on the record with one of its primary uses: artmaking. This image was included directly before the elephant image in the Fauna section, to relate the form the craftsman is sculpting to real life.



ARTISAN
WITH DRILL
C. 1955

FACTORY INTERIOR
C. 1977

PLAY AUDIO

Morse code was included on the record as an additional language extraterrestrials may be able to decode. Its rise in popularity with the industrial revolution was not a coincidence, as humanity began standardize communications across distances.



X-RAY OF HAND
C. 1977

CONTEXT:
X-RAYS

X-Rays were commonly used to identify and diagnose internal medical issues from the 20th to 21st centuries. Despite their low quality compared to modern nano-cameras, the proximity of a human hand to the X-ray leaves no doubt what the soans could be referring to.



WOMAN WITH MICROSCOPE
C. 1977

CONTEXT:
MICROSCOPES

In the 20th century, compound microscopes were at the forefront of biology. Using only wave-lengths visible to the naked eye, compound microscopes made way for their more advanced counterparts in successive decades, inspiring the next generation of scientists through classroom use.



STREET SCENE (PAKISTAN)
C. 1977

CONTEXT:
TRANSPORTATION

The creators of the golden record saw fit to include a series of transportation-related images. This image is the most information-dense, showing horse-cars, bikes, and pedestrians all traveling through a two-way street.



STREET SCENE (INDIA)
C. 1977

HIGHWAY
C. 1977

CONTEXT:
HIGHWAYS

Before cars were phased out in favor of air transportation, highways dominated most rural spaces. The thousand-mile long stretches of asphalt were detrimental to wildlife and humans alike, contributing to noise pollution and roadkill.



GOLDEN GATE BRIDGE
C. 1953

CONTEXT:
BRIDGES

While cars dominated, bridges were integral to a city's economy. The Golden Gate bridge was built in 1933 to connect San Francisco to its northern neighbors. At its time of construction, the bridge set a record for longest span.



TRAIN
C. 1968-1976



AIRPLANE IN FLIGHT
C. 1977



AIRPORT
C. 1960

CONTEXT:
AIRPORTS

When airports were only used by those traveling far distances, they were relatively small, handling under 100,000 people daily. Visitors considered flying a novel experience, and would often dress up for the occasion and wait hours to board flights.



ANTARCTIC SNO-CAT
1958

CONTEXT:
USER ERROR

This image was included by the record's team to add humor, showing potential extraterrestrials that, despite our technological prowess, we still made blunders. Although transportation errors have been largely eliminated by automated drivers, one can still imagine the unpredictability of having a human behind the wheel of their transport.



RADIO TELESCOPE
C. 1970



ARECIBO OBSERVATORY
C. 1963

CONTEXT:
SEARCHING FOR LIFE

Arecibo Observatory was one of the many used to search for signals of extraterrestrial origin in the 20th century, long before the establishment of SETI's facilities in 2182. The telescope pictured was used to search for radio waves.



PAGE FROM BOOK
C. 1977

CONTEXT:
ISAAC NEWTON

The book photographed is from *System of the World*, published in 1728 by the renowned physicist Isaac Newton. Newton was responsible for establishing the physical principles that have allowed humanity to explore our solar system. This page is the first record of the procedure for launching an object into space in human history.



ASTRONAUT IN SPACE
1965

CONTEXT:
ASTRONAUTS

The first astronauts faced dangers few could imagine today. Suits lacked jet propulsion or sustained temperature control systems, and astronauts could survive less than a day away from their vessels.



TITAN CENTAUR
LAUNCH
1975

AUDIO:
TRANSPORTATION
SEQUENCE

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PLAY AUDIO



STRING QUARTET
C. 1945-1980



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C. 1977

AUDIO:
PULSAR

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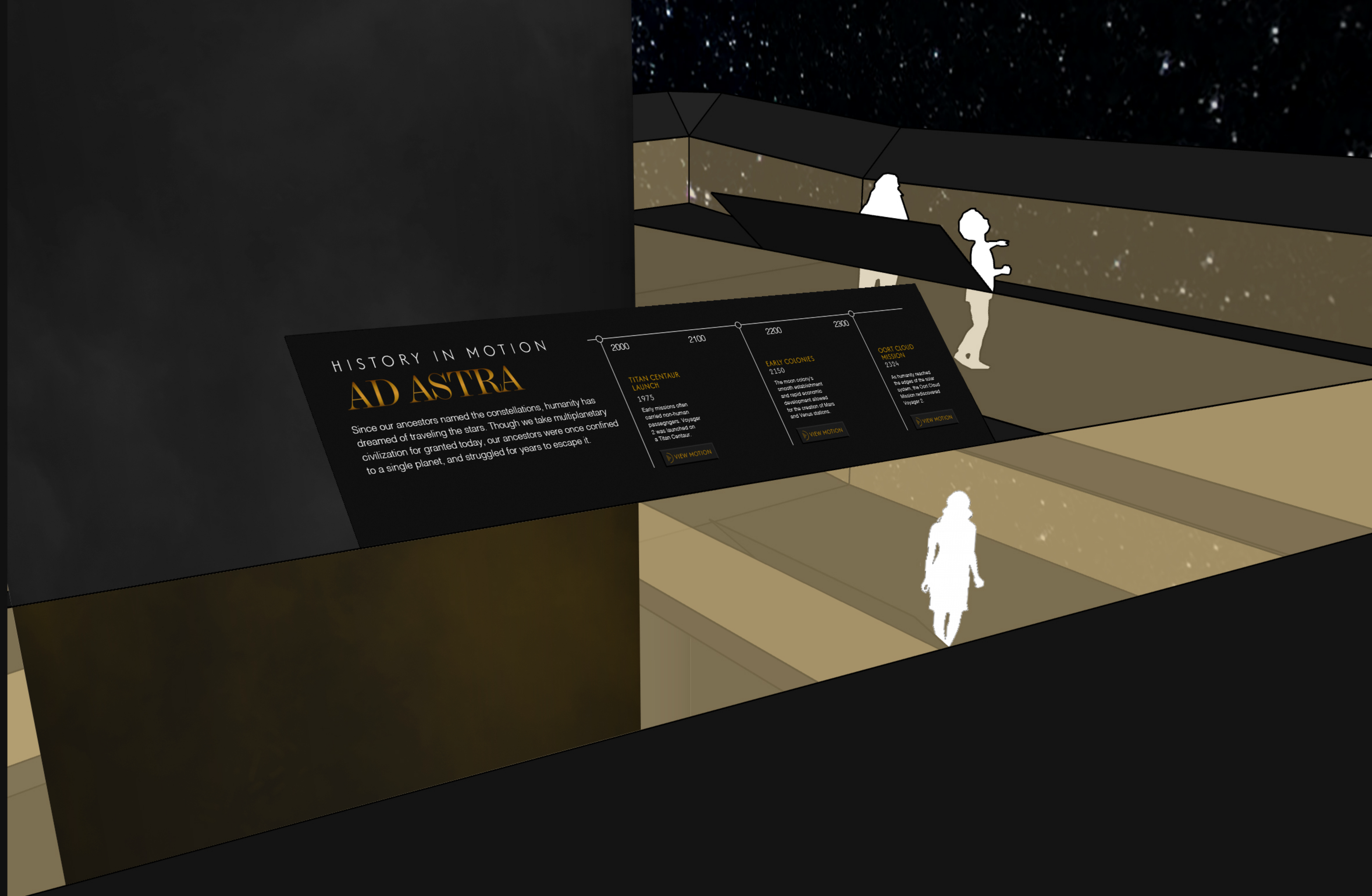
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THE RECORD REVIVED

3 INTERIOR CONTEXT PLAQUES

Along the inner edge of the platform, timeline-based plaques allow viewers deeper insight into important historical moments regarding a section's topic. Buttons along the timeline change the hologram view in the central projection column, localized to the viewer.

The second context plaque for the Technology section details advances in space travel.

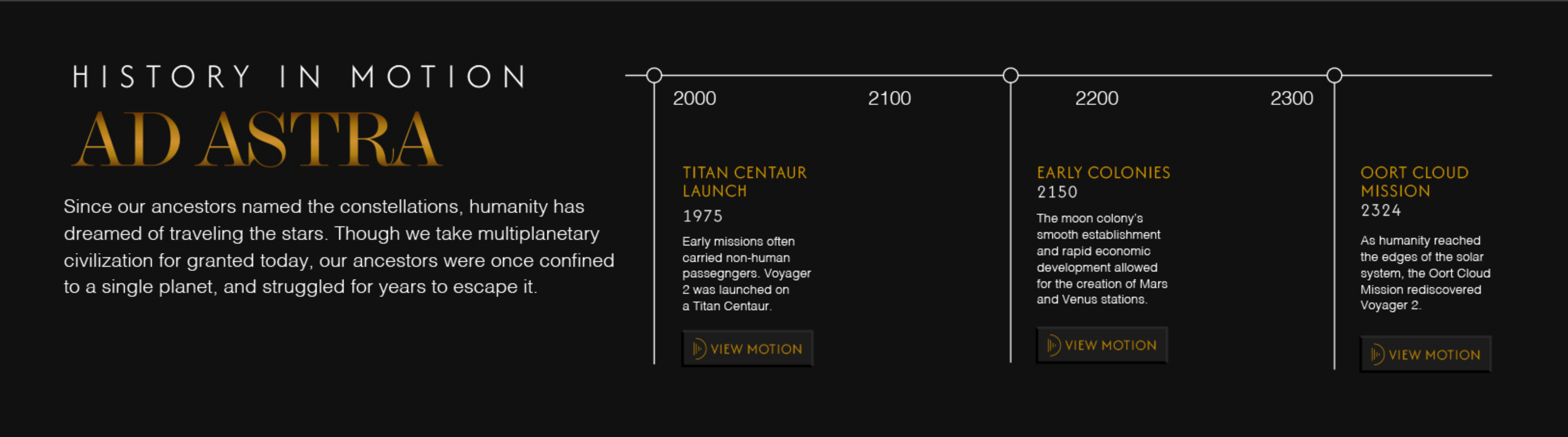
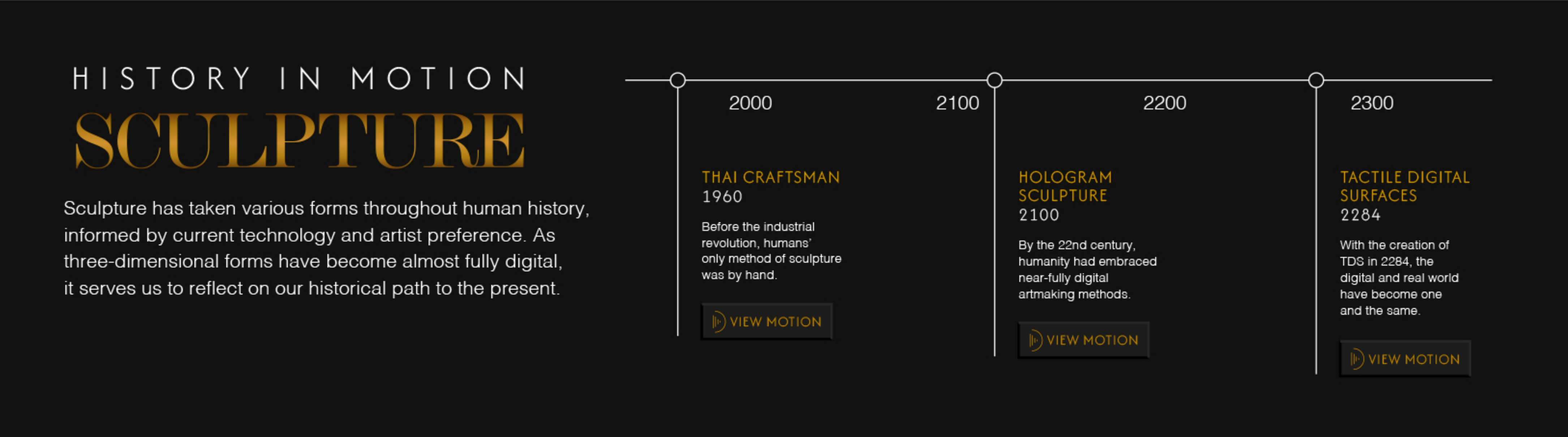


THE RECORD
REVIVED

3 INTERIOR
CONTEXT PLAQUES

Plaques show three events, with the first always relating to an image from the record. “View Motion” buttons play a holographic version of the event in the projection column, reviving decisive moments for the modern day.

The timeline encourages viewers to reflect on how society has changed since the Voyagers’ launch, as well as the unknown gaps in our historical knowledge.



THE RECORD REVIVED

4 PROJECTION COLUMN

In the center of the exhibition, contextual videos wrap around the massive column holding Voyager 2 aloft. Projections are localized to side and height, allowing different viewers to see different things at the same time.

Projections provide a 'revival' of the record's original content, bridging the 300-year gap as viewers turn inwards to see history, and each other, from a new perspective through the glass tube.

