

MEANS OF FORMING INTERIOR DESIGN DURING THE RECONSTRUCTION OF INDUSTRIAL ENTERPRISES (BASED ON THE THEORY OF SPATIAL NARRATIVES)

Qualification work for obtaining the SVO «Master»

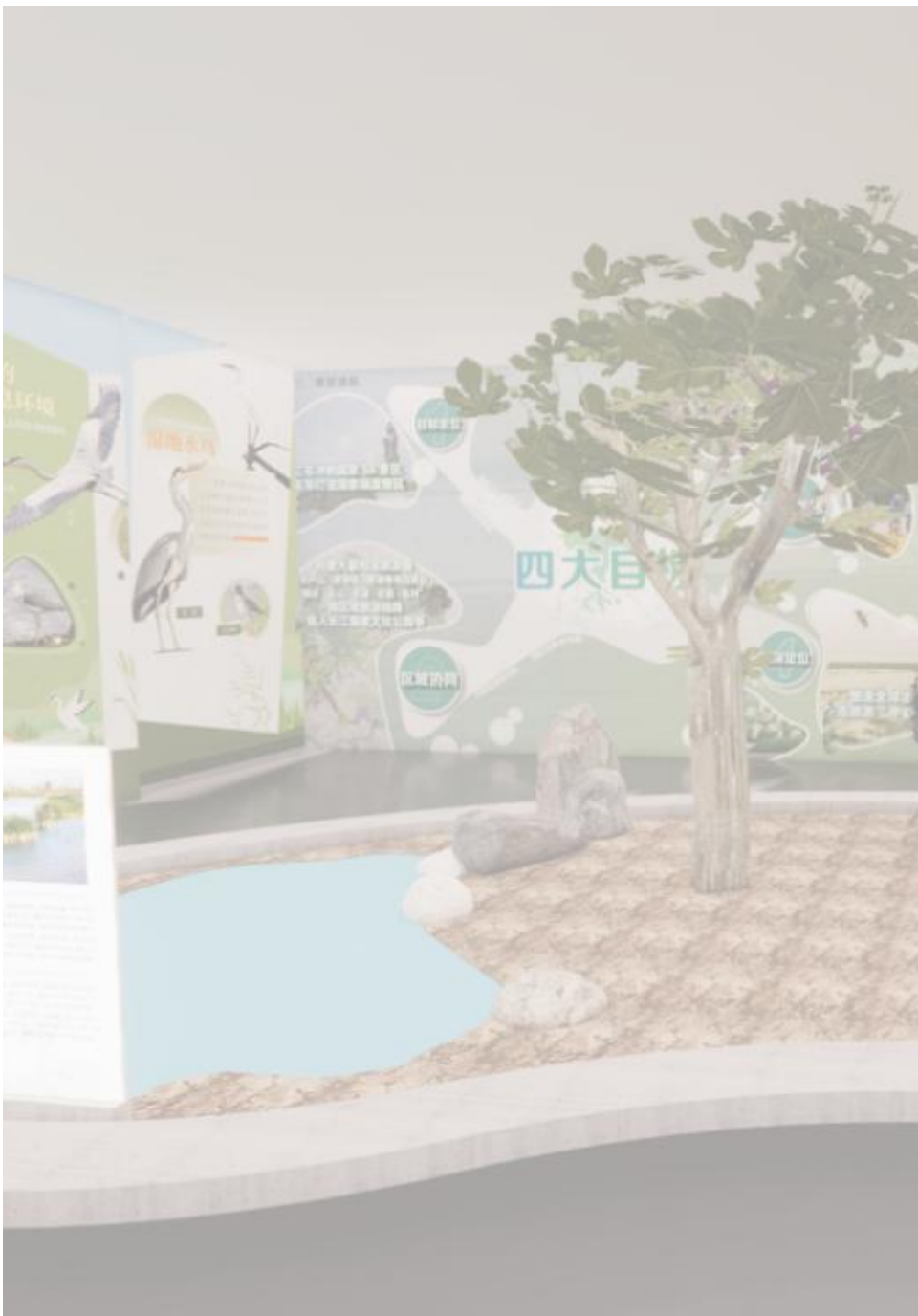
in the specialty 022 Design

OPP «Design of the architectural and landscape
environment»

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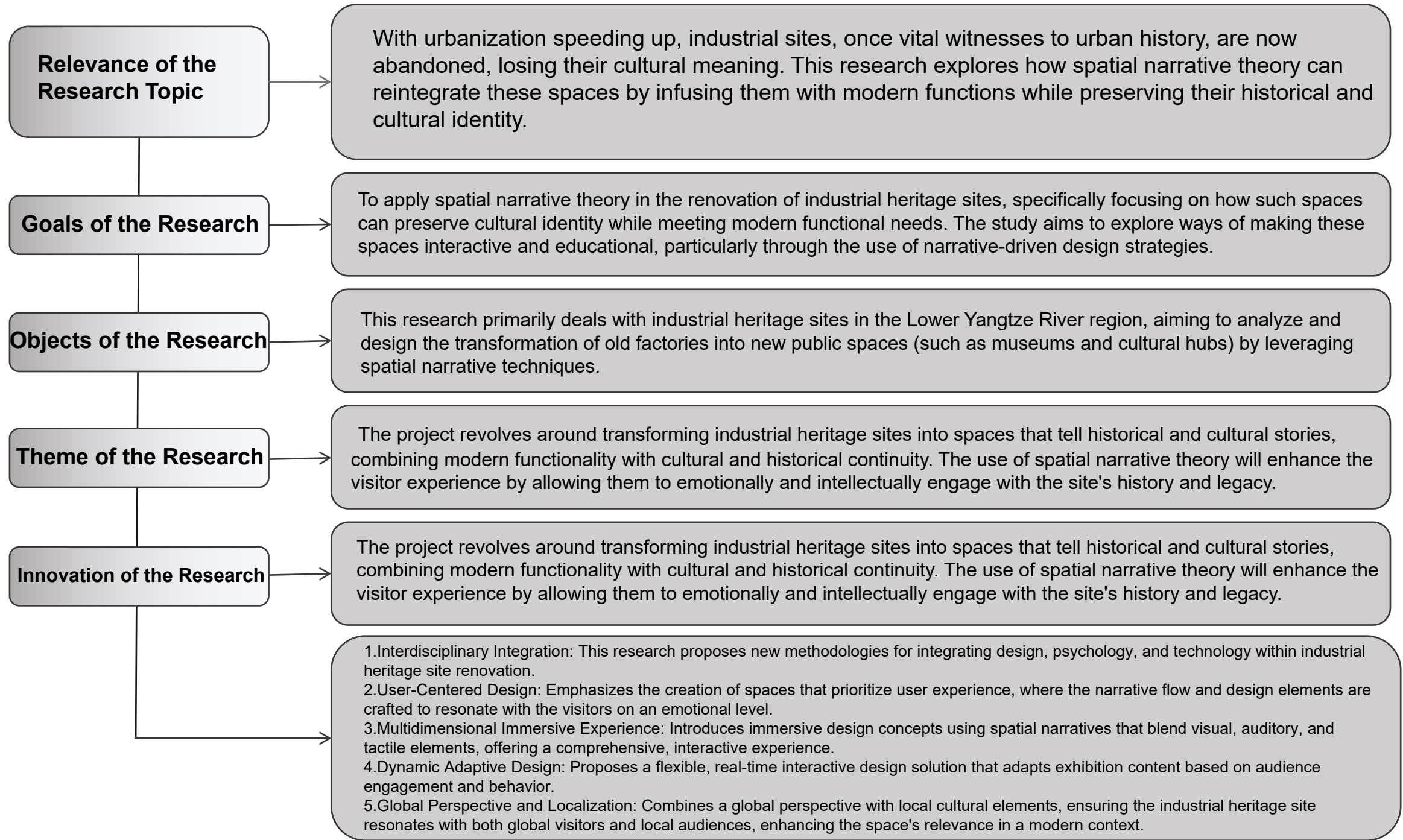
Relevance of the Topic

Research on the Renovation Design of Old Factories along the Lower Yangtze River Based on Spatial Narrative Theory——Taking the Yangtze River Delta Natural Science Museum as an Example

With the acceleration of urbanization, industrial sites, as important witnesses of urban history, are facing the dilemma of gradual abandonment and loss of cultural connotation. How to maintain the historical and cultural value of industrial sites in the process of transformation and give them new vitality through innovative design has become an important topic of contemporary urban renewal. This study aims to explore the application of spatial narrative theory in the spatial transformation of industrial sites. Taking the Yangtze River Delta Natural Science Museum as a case, it analyzes how to convey the historical culture of industrial sites through spatial narrative design while meeting modern functional needs.

Spatial narrative theory emphasizes telling historical and cultural stories through spatial design to enhance the emotional expression and cultural transmission function of space. By introducing spatial narrative theory, the space of industrial sites can not only reflect its historical memory, but also become a place for cultural interaction and educational experience. This study proposes a strategy for the revitalization and renewal of public spaces of industrial sites based on spatial narrative theory through a combination of literature analysis, case study and design practice, aiming to construct a space with a sense of history, cultural identity and functional diversity through situational and multi-dimensional design techniques.

The research results show that spatial narrative theory has important application value in the transformation of industrial sites. By refining and expressing historical events, regional culture and industrial spirit, designers can create public spaces that are both rich in historical depth and modern in function. This study provides new theoretical ideas and practical paths for the revitalization and renewal of industrial sites, and provides valuable references for the design of similar projects in the future.



Chapter One

Relevance of the Research Topic

In Chapter One, a systematic review and analysis of theoretical and practical materials related to multimedia exhibition space design are conducted. This study synthesizes various domestic and international academic literature and case studies, laying the foundation for this research. The focus includes an exploration of the development history and application strategies of multimedia technologies (such as AR, VR, and interactive projection).

Goals of the Research

The research examines how exhibition spaces are transitioning from traditional static displays to interactive and immersive experiences. This shift aims to meet the demands of modern audiences for participation, personalization, and multi-sensory engagement. The study also highlights the design principles in spatial layout, technology integration, and narrative expression to enhance the visitor experience.

Objects of the Research

The research focuses on multimedia exhibition spaces, including museums, art galleries, and other venues where multimedia serves as a core component for presentation. These spaces are examined to understand how multimedia technologies can provide a combined visual and interactive experience.

Theme of the Research

The central theme revolves around optimizing multimedia exhibition spaces, focusing on the integration of design principles, technology, and user experience. The study aims to create spaces that are not only functional but also engage the audience through a dynamic and immersive environment.

Innovation of the Research

The innovation of this research lies in integrating interdisciplinary perspectives, such as design, aesthetics, technology, and psychology. By proposing design strategies centered on user experience, the research explores the profound application of multimedia in exhibition spaces. Additionally, the study emphasizes the role of interactivity and immersion in shaping the core characteristics of modern exhibitions.

Chapter Two

2.1. Using the principles of spatial narrative theory in public space design

1. Research on Spatial Narrative Theory: This section outlines the research methods used to study the spatial narrative theory. It looks into the development of the field, starting with the "spatial turn" in narratology, which has led to the exploration of spatial storytelling through architecture, exhibitions, and urban spaces. The section reviews domestic and international literature on spatial narrative theory and outlines the historical context and growth of the field in China and abroad.

2. Research Methods: This includes methods such as literature analysis, social surveys, field research, and statistical analysis to understand how spatial narrative theory can be applied to the preservation and transformation of industrial heritage sites.

Chapter Two

2.2 Features of the formation of a public exhibition space

- 1.Using Spatial Narrative in Public Space Design: The application of spatial narrative theory in public space design, especially in the context of industrial heritage sites, is emphasized. The chapter discusses the importance of integrating historical narratives into the design of these spaces.
- 2.Features of Forming Public Exhibition Spaces: The section highlights key features of exhibition spaces that need to be designed in the context of historical preservation, including cultural transmission, emotional resonance, interactivity, and functionality.
- 3.Methods of Forming Exhibition Spaces in Reconstruction: This section delves into the strategies for forming exhibition spaces using spatial narrative theory. It explores how the layout of space and interactive design can help in storytelling and preserve historical context.

Chapter Two

2.3. Basic methods of forming exhibition space in reconstruction conditions

Narrative-Driven Layout:

The exhibition follows a chronological flow, guiding visitors through key historical moments and ecological themes of the Yangtze River. Each section focuses on different aspects of the river's story, from its cultural significance to environmental challenges.

Multisensory Engagement:

The space integrates VR and AR technologies, allowing visitors to experience historical events and interact with the river's ecosystems. Projection mapping is used to create immersive environments that deepen emotional and cognitive engagement.

Educational Focus:

Interactive exhibits allow visitors to learn about the river's biodiversity, conservation efforts, and pollution issues. The design fosters awareness of ecological problems and encourages proactive conservation.

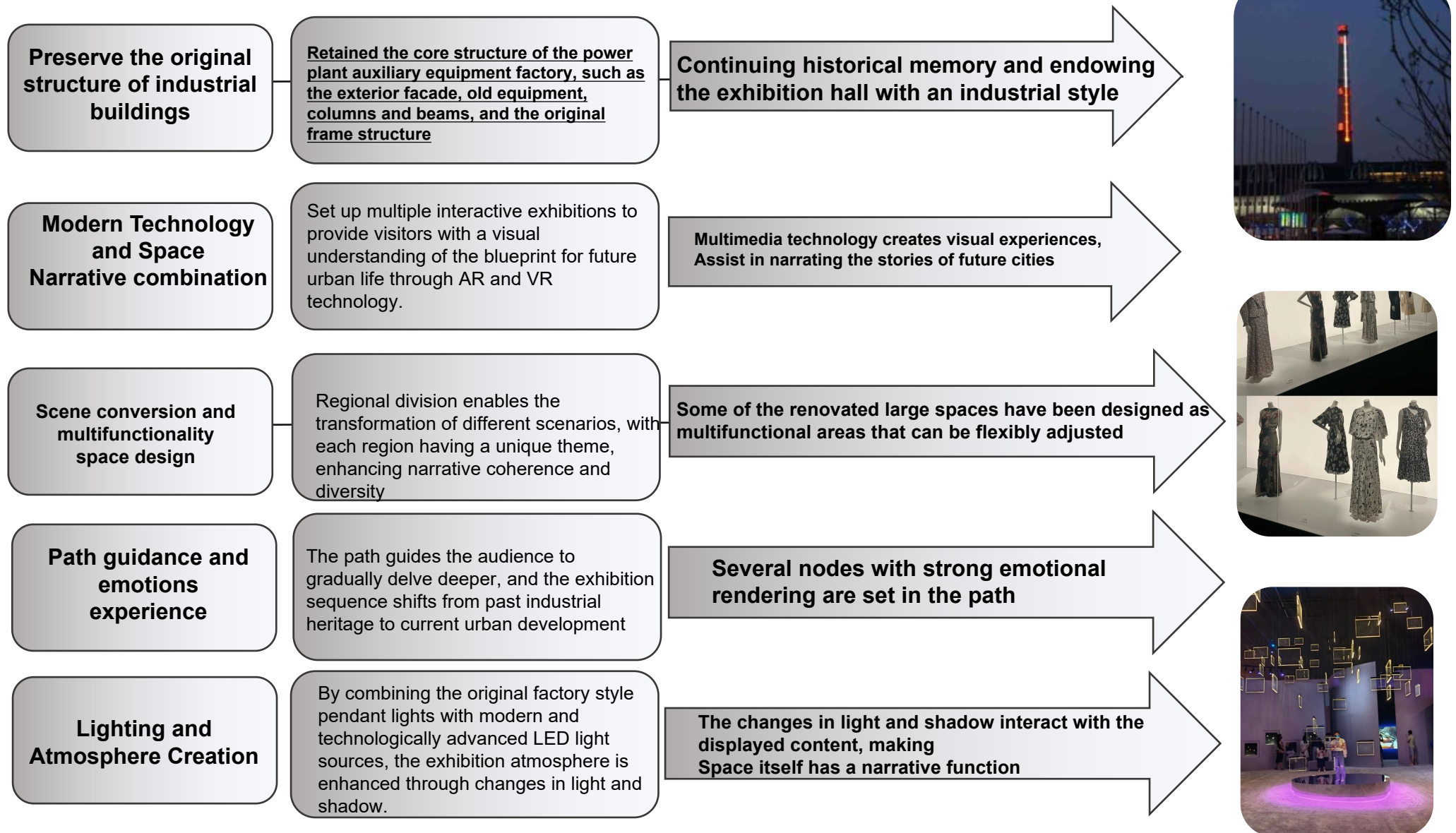
Emotional and Intellectual Connection:

Storytelling elements, such as personal accounts from local communities, deepen the emotional connection to the content. Visitors are not just passive viewers but are invited to reflect on their role in environmental protection.

Sustainable Design:

The hall incorporates eco-friendly materials, energy-efficient lighting, and renewable energy sources, reinforcing the conservation message. The design prioritizes sustainability while serving its educational mission.

Principles of Designing by Means of Multimedia Technologies in Exhibition Spaces

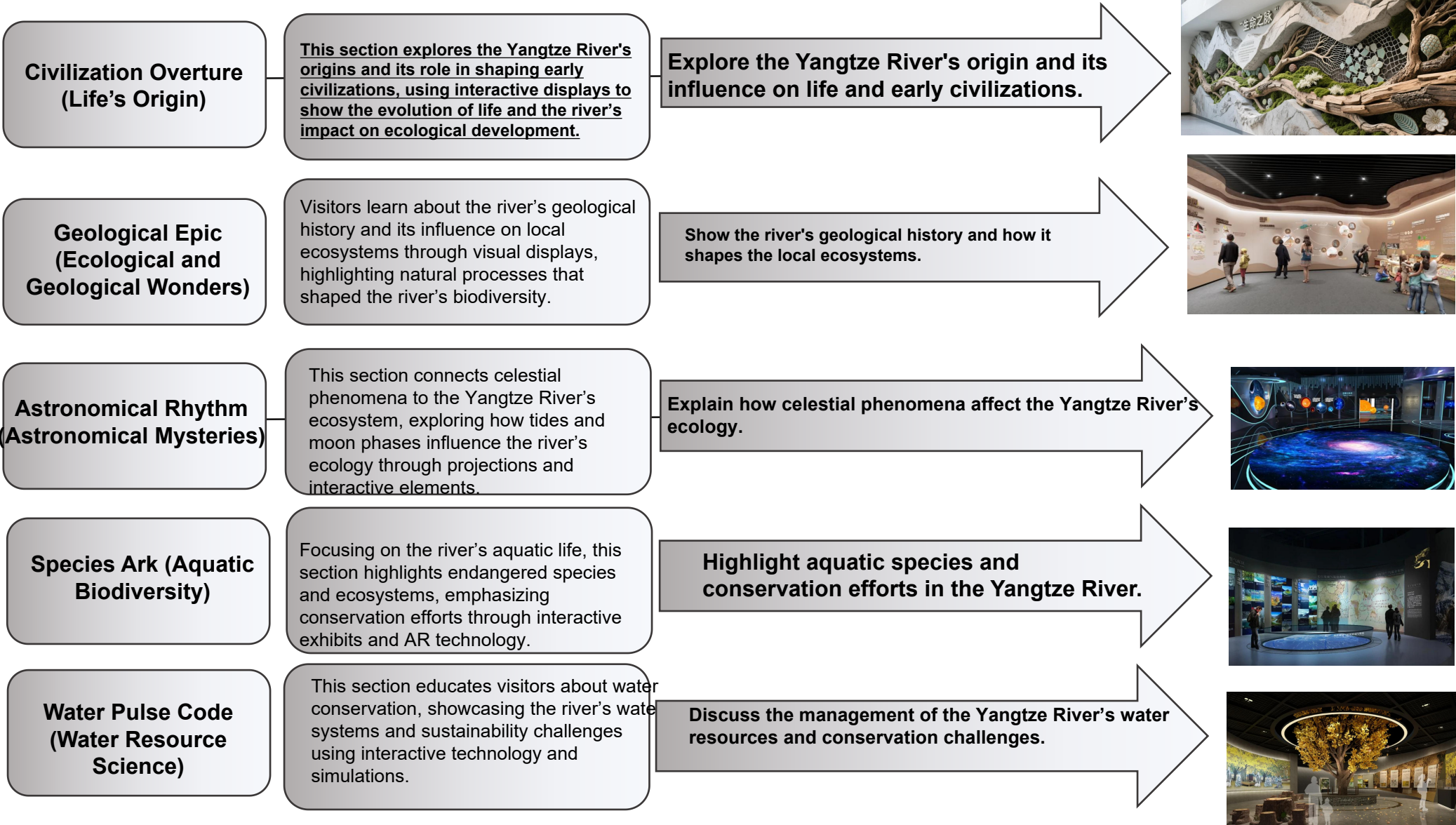


Chapter Three

Development of Exhibition Space Project Based on Spatial Narrative Theory

Project Concept: The Yangtze River Conservation Exhibition Hall exemplifies the use of spatial narrative theory to create an immersive, engaging space. The design integrates historical, ecological, and environmental narratives, emphasizing both the river's cultural significance and the urgency of conservation efforts. Through interactive and immersive technologies, such as AR, VR, and projection mapping, visitors can experience the river's history and ecosystems firsthand. The exhibit not only educates but also emotionally connects visitors with the ongoing environmental challenges faced by the Yangtze River, encouraging proactive involvement in preservation. This approach demonstrates how space can tell a compelling, multi-layered story while promoting learning and emotional engagement.

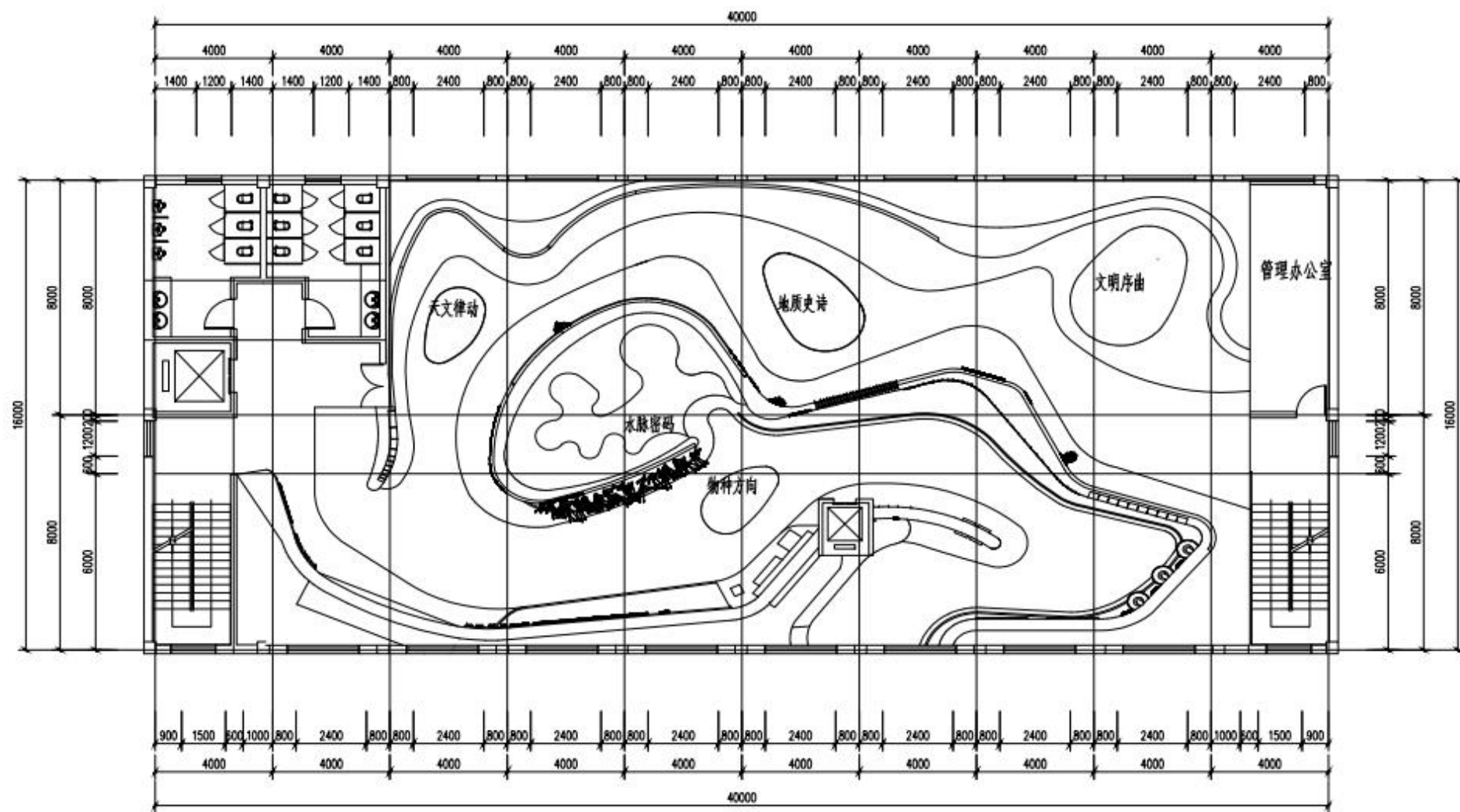
Theme and concept demonstration of exhibition space

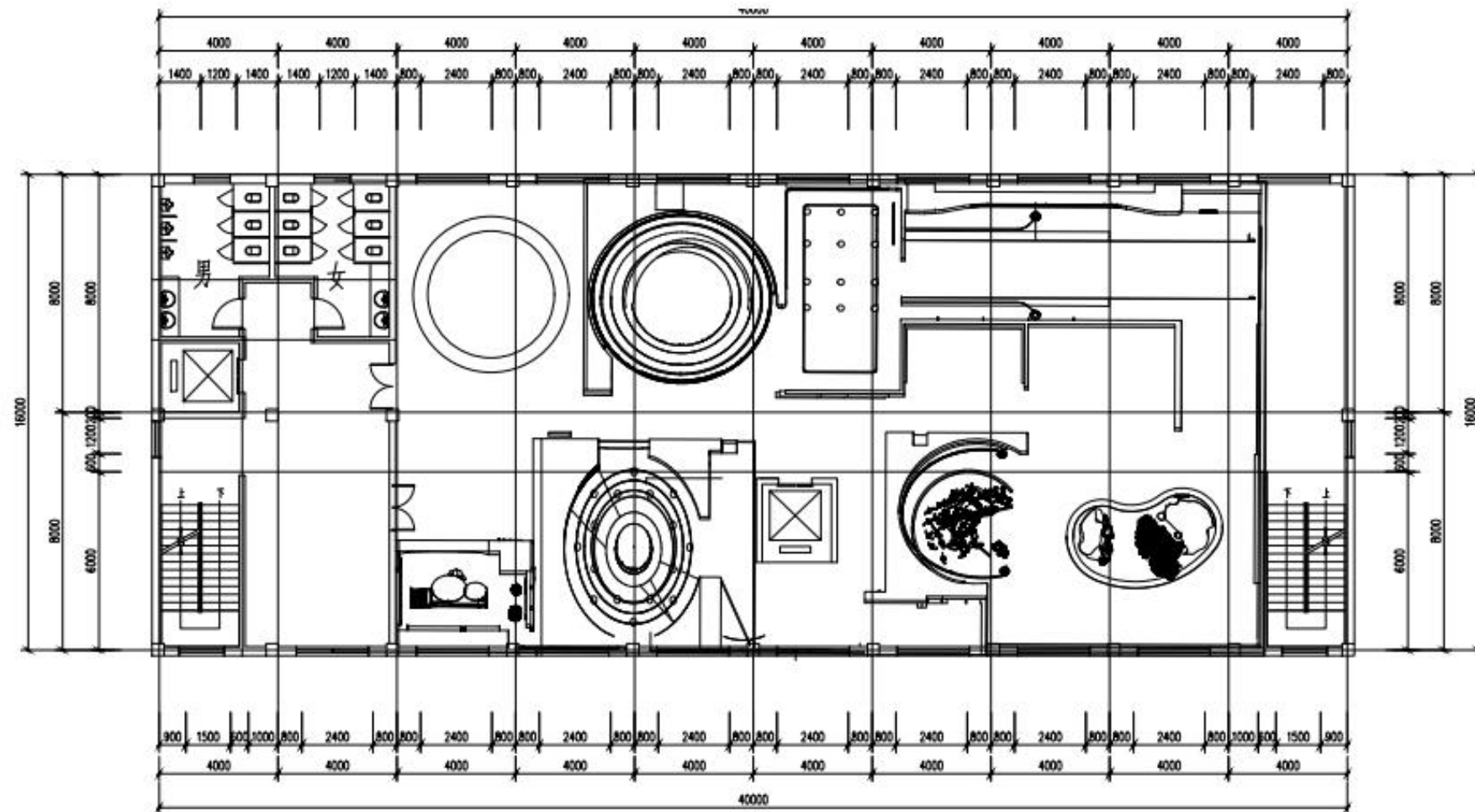


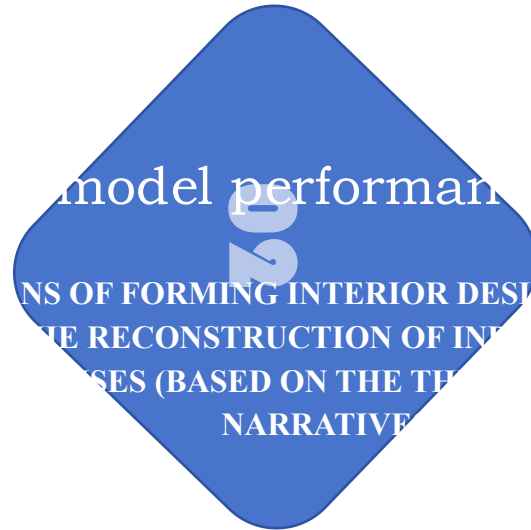


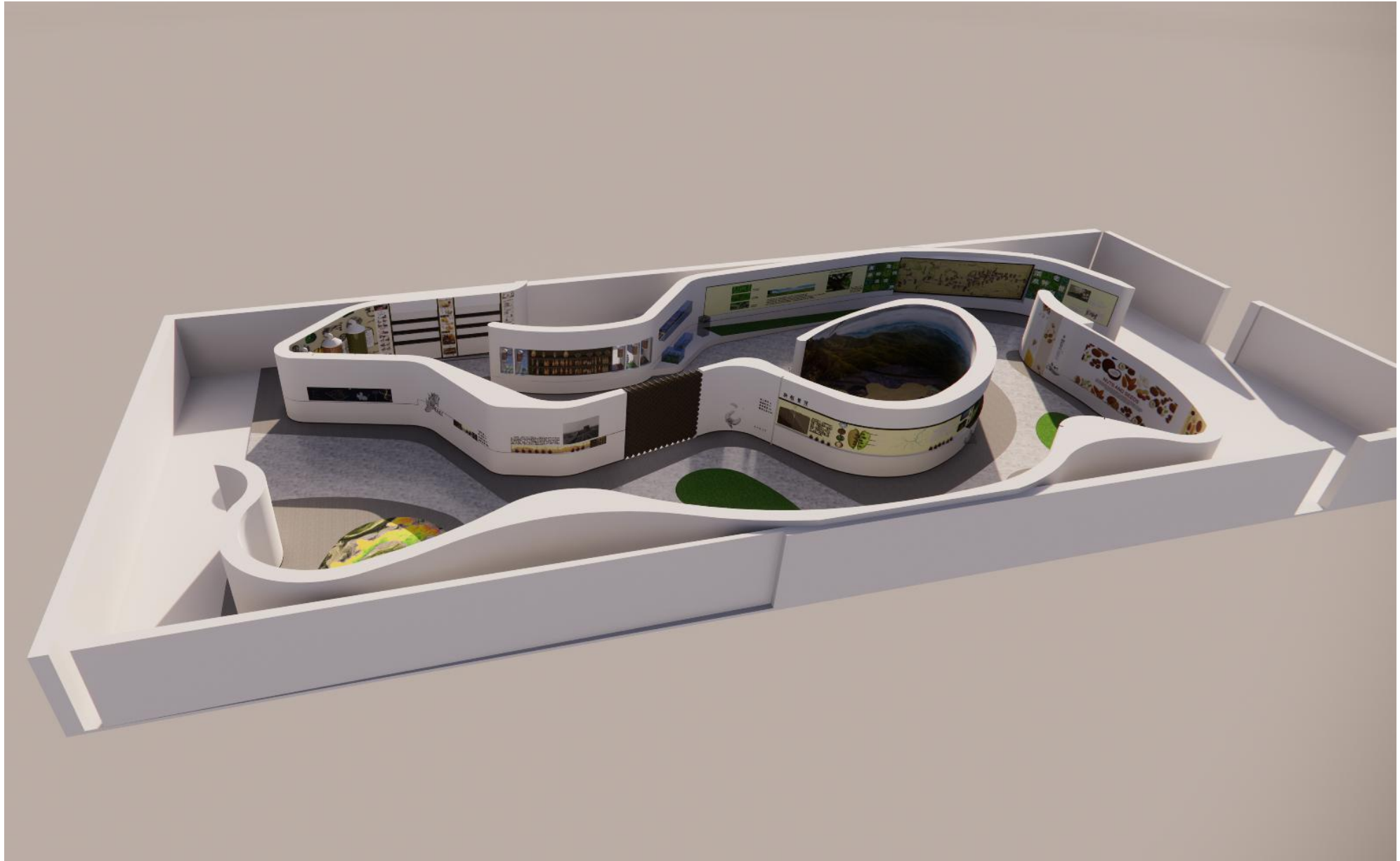
Project Proposal

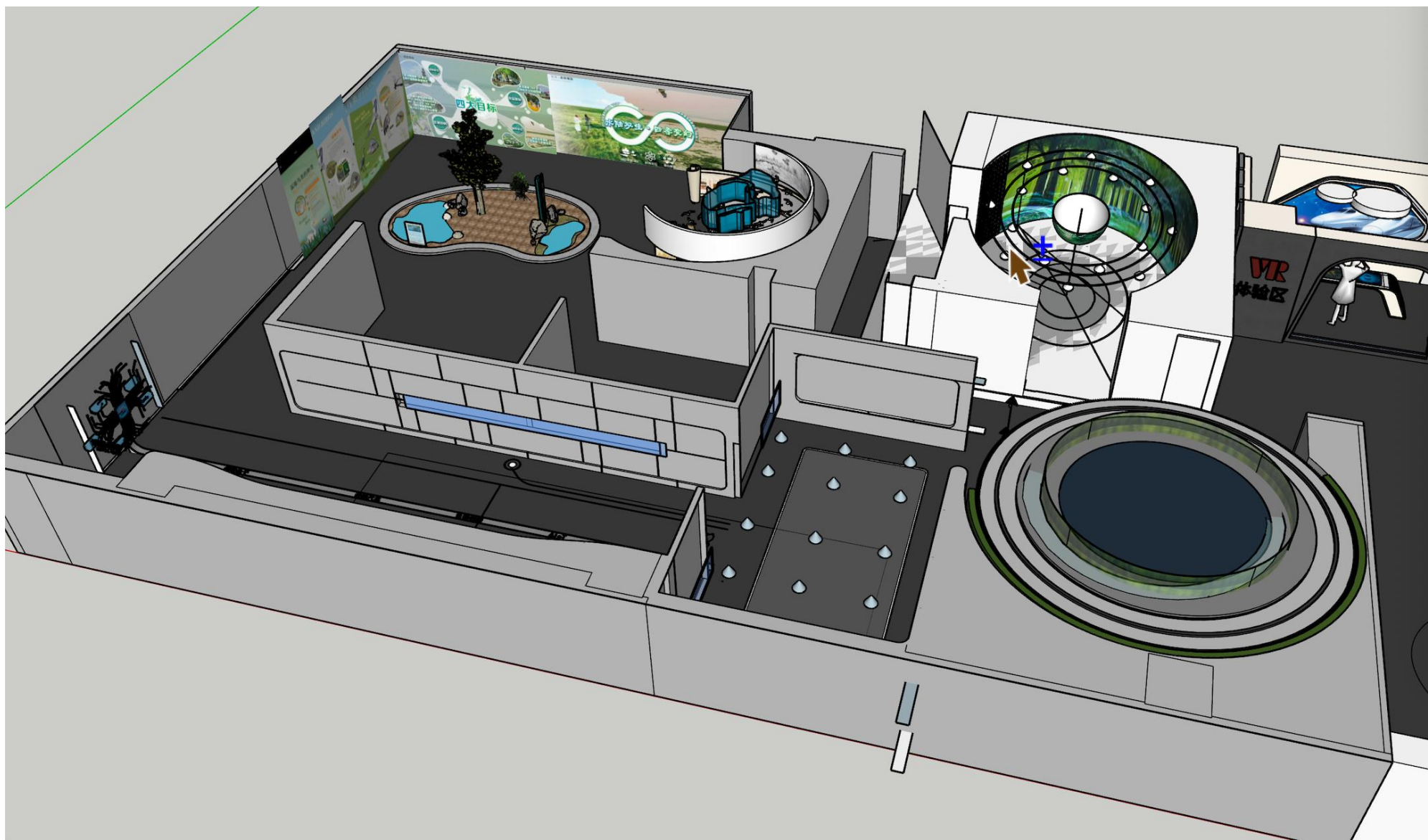
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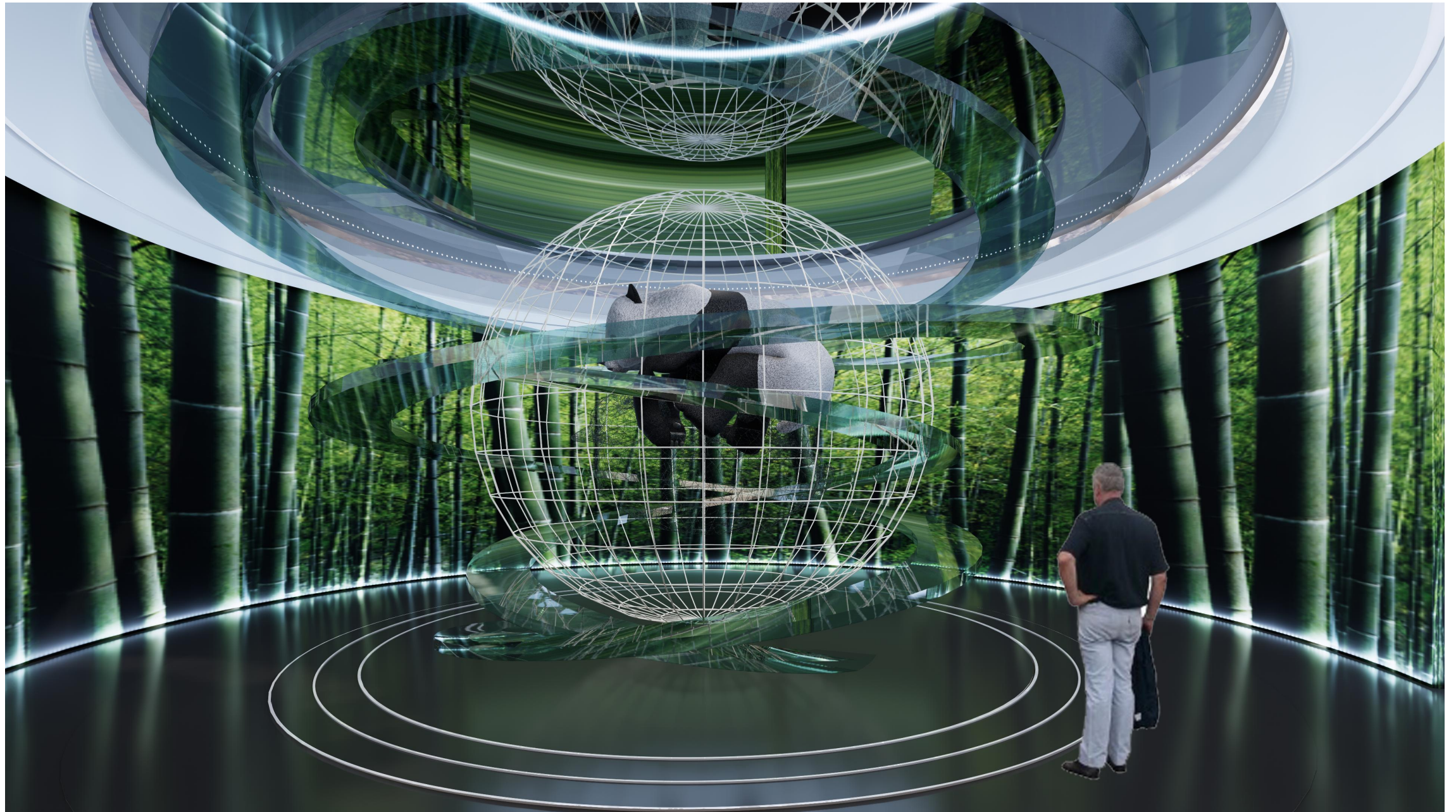




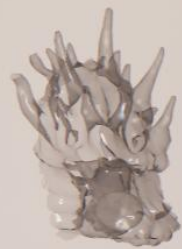








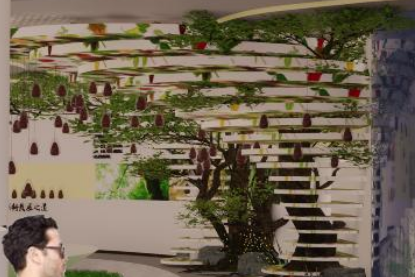




神龍譜子
shenlongsongzi

見聖生機
藏土萌芽
枝葉吐茂
爾果累累

神農氏之遺



神農





