

Reconstruction of industrial facilities using design tools (using the example of spatial reconstruction of the Changzhou Dami spinning factory)

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Major: Environmental Art Design

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The theme trail is a forward-looking concept of activated utilization of industrial relics and an innovative development form of in-depth integration of culture and tourism.

From the theoretical point of view, the birth of this concept reflects the development process of China's heritage protection concept and practice from single and static gradually to **comprehensive and dynamic**, emphasizing the internal relationship between cultural heritage resources and non-cultural heritage resources in the region, and is a theoretical and practical innovation in the systematic protection of cultural heritage and the centralized and effective use of cultural tourism resources in line with China's national conditions.

Geographical condition

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The industrial remains along the canal in Changzhou are on a large scale (Figure 1)

Among them, five Star Street concentrated distribution of the early daily necessities and other factory sites represented by Canal No. 5 and former residences of celebrities, including Guoguang 1937 and Sheng Xuanhuai's former residence;

Dacheng No. 1 Factory, Dacheng No. 2 Factory, Dacheng No. 3 Factory and Liu Guojun's former residence are concentrated in Tianning Street.

Qishuyan section depends on the canal and railway, concentrated Qi machine factory, **Daming 1921** and other industrial plants.

The industrial remains in the old urban areas of Changzhou are diverse and rich in forms, including wharves, factories, former residences, etc., forming an industrial process track with Changzhou characteristics.



FIG. 1 Distribution map of industrial remains in Changzhou

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1.Spatial Narrativization

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2. Dialogue between Old and New

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3. Functional Hybridization and Public-Oriented Experience

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1.Spatial Narrativization

Using Changzhou's "Century of Industry and Commerce" history and the inherent logic of the textile industry—"raw materials → production → products → culture"—as the narrative thread.

Translating the original production processes (such as textile techniques) and worker circulation paths into experiential routes for visitors.



FIG. 2 Traditional Chinese Textile Process Flowchart

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2. Dialogue between Old and New

The original structure, texture, and iconic industrial elements (such as looms, mechanical parts) of the building are preserved to the greatest extent, serving as "anchors of memory."

Modern materials (e.g., glass, micro-cement, metal) and flexible layouts are boldly introduced, creating a clear and discernible contrast with historical elements. This highlights the layers of time, moving beyond a simplistic "repair the old as old" approach.



FIG. 3 Proposed Design Materials

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3. Functional Hybridization and Public-Oriented Experience

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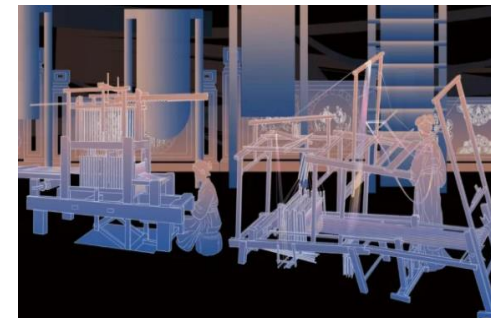
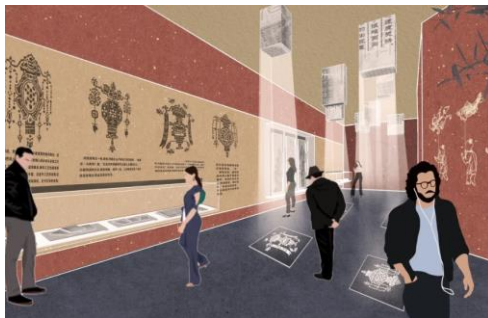


FIG. 4 A composite cultural venue integrating exhibitions, theater, cultural & creative industries, and catering.

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Cultural Narrative and Value Representation

To alter the current situation in industrial heritage renovation characterized by "insufficient excavation of cultural value" and a "fractured narrative."



Spatial Experience and Functional Revitalization

To break through the predicament of "aging spatial structures" and "monotonous functional homogeneity" in old industrial buildings, thereby enhancing their public appeal and usage efficiency.



Paradigm Exploration and Model Promotion

To establish a feasible paradigm for achieving high-efficiency revitalization within limited spaces for the numerous ordinary (non-landmark) industrial heritage buildings facing renovation challenges.

Analysis of current situation

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Project location analysis

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The design site of this project is the Tianhong Daming 1921 Pioneer Park (the former site of Daming Yarn Factory) in Wujin District, Changzhou.

Design Concept

The 21 historical buildings in the factory, in line with the principle of "repairing the old as the old", retain the old factory red brick and gray tile style of the Republic of China.

Building 2 in the factory is idle, covering an area of about 1600 square meters.

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FIG 5 Location map of Daming Yarn Factory in Changzhou



FIG 6 Plan and vacant buildings of Daming Yarn Factory in Changzhou



FIG 7 Facade of Building 2 of Daming Yarn Factory in Changzhou

Interior renovation analysis

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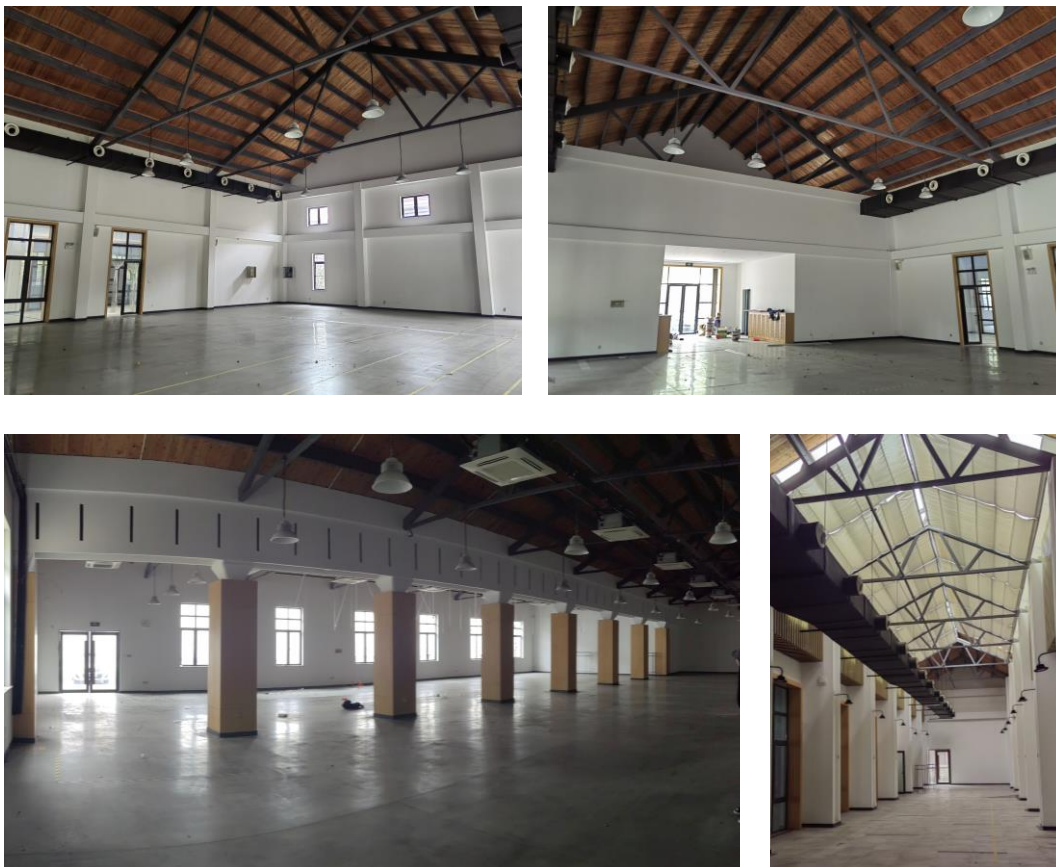


FIG 8 Interior of Building 2 of Daming Yarn Factory in Changzhou

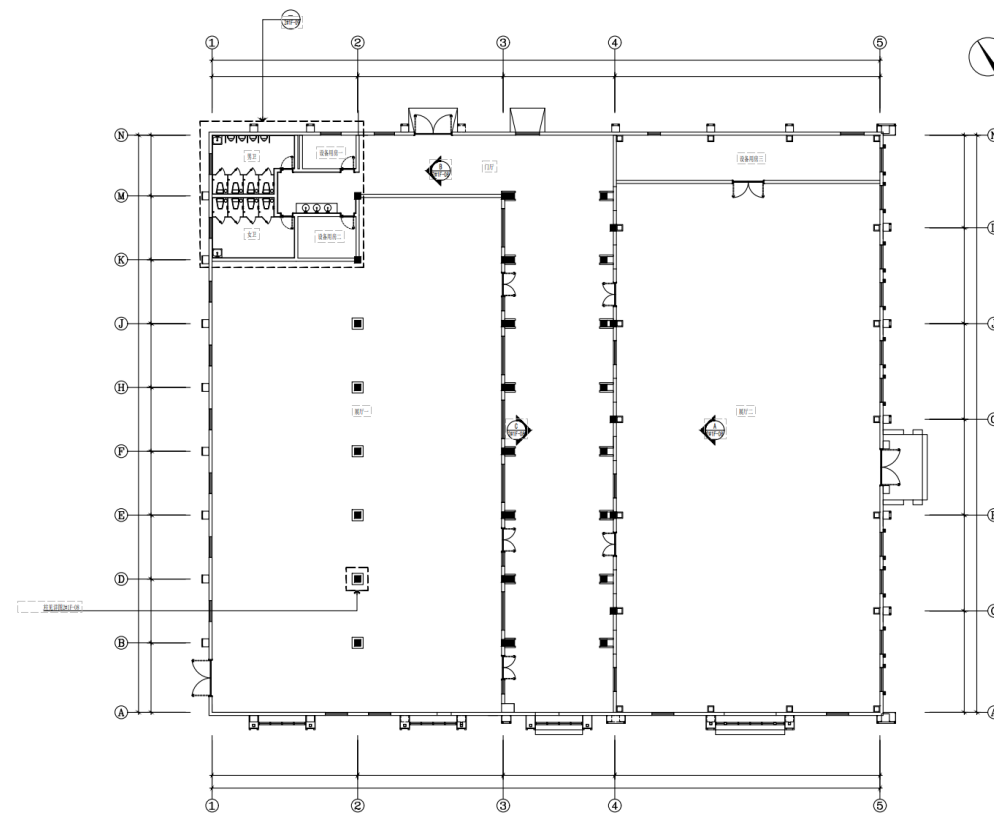


FIG 9 Original structure of Building 2

Interior renovation analysis

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The design will create six primary spatial scenes that follow the inherent logic of the textile industry—**raw materials → production → products → culture**—forming a coherent and rhythmically narrated indoor thematic pathway.

The visitor experience flow is roughly structured as follows:

learning about history (main exhibition area) → experiencing craftsmanship (cultural and creative zone) → transitioning through leisure (green corridor) → savoring daily life (dining area).

Together, these zones transform an isolated factory building into a multifunctional and narratively complete "urban cultural living room."

Interior renovation analysis

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Design Zoning Diagram



Interior renovation analysis

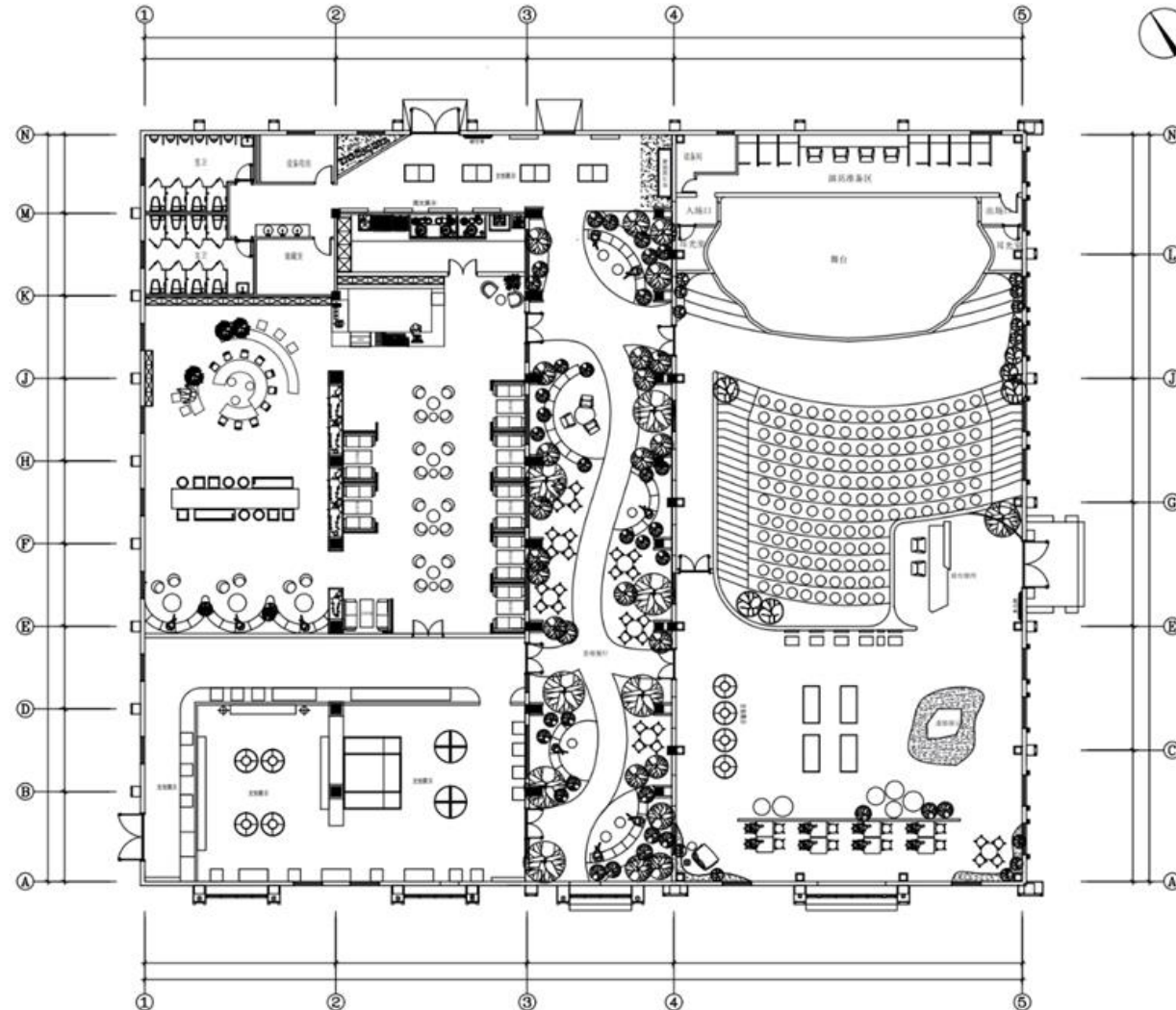
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Floor plan



Improvement intention/Exhibition and Display Area

Research
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Design Concept: Historical Narrative Backbone

Design intention drawing: Fabric and Textile History Exhibition Area

Design Concept

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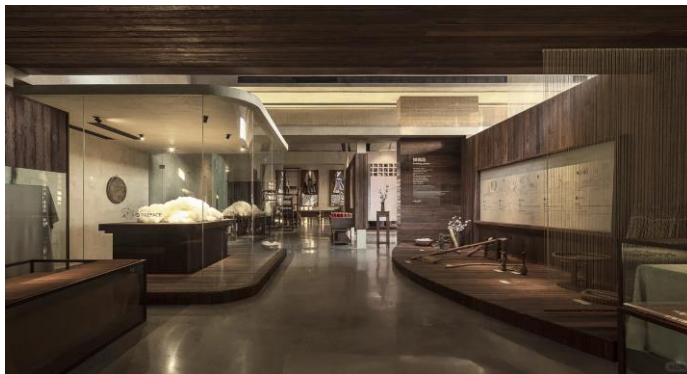


FIG 10 "Dasheng Weaving · Weaving Art Journey" Exhibition Space, Nantong, Jiangsu

Improvement intention/Cultural and Creative Area

Research
background

Design Concept: Core of Cultural Value Transformation and Experience

Design intention drawing: Cultural and Creative Exhibition-Sales Interaction Zone

Design Concept

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FIG 11 China National Silk Museum Cultural & Creative Store

Improvement intention/Corridor Vegetation Area

Research
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Design Concept: A Regulator of Experiential Rhythm

Design intention drawing: Four or five seating units are enveloped by naturally serene greenery.

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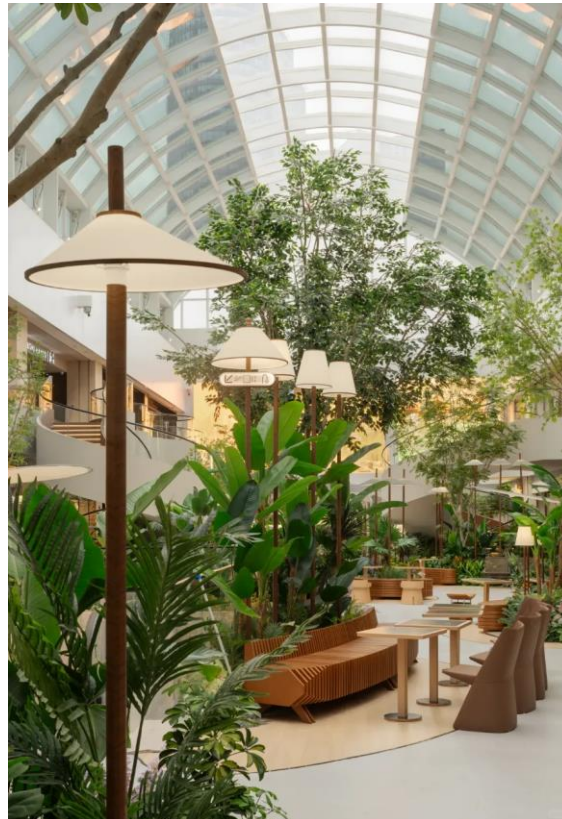


FIG 12 The Indoor Garden on the Seventh Floor of Phase I, Deji Plaza, Nanjing, China

Improvement intention/Dining and Rest Area

Research
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Design Concept: Everyday Narrative Node

Design intention drawing: Providing catering services while artistically translating industrial elements

Design Concept

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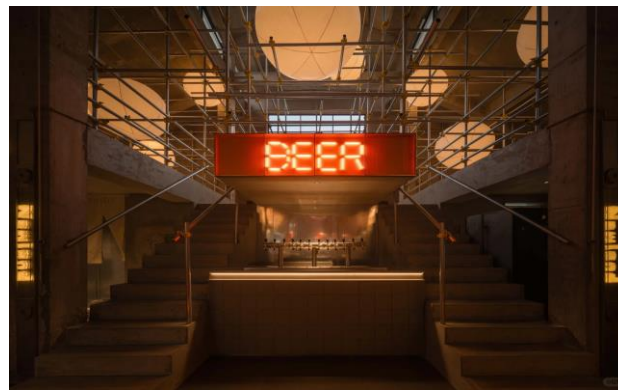


FIG 13 A Beef Hot Pot Restaurant Renovated from an Old Factory Building in Suzhou
526 Industrial Park, Shiquan Street, China

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Design Rendering/Exhibition and Display Area

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Design Rendering/Exhibition and Display Area

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Design Rendering/Cultural and Creative Area

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Design Rendering/Corridor Vegetation Area

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Design Rendering/Dining and Rest Area

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THANK YOU