#### **Syracuse University**

#### **SURFACE**

**Architecture Thesis Prep** 

School of Architecture Dissertations and Theses

Fall 2018

#### Relink Tangible and Intangible

Weibin Lao Syracuse University

Xiaobai Zhao Syracuse University

Follow this and additional works at: https://surface.syr.edu/architecture\_tpreps



Part of the Architecture Commons

#### **Recommended Citation**

Lao, Weibin and Zhao, Xiaobai, "Relink Tangible and Intangible" (2018). Architecture Thesis Prep. 369. https://surface.syr.edu/architecture\_tpreps/369

This Thesis Prep is brought to you for free and open access by the School of Architecture Dissertations and Theses at SURFACE. It has been accepted for inclusion in Architecture Thesis Prep by an authorized administrator of SURFACE. For more information, please contact surface@syr.edu.

## Relink Tangible and Intangible

Weibin Lao & Xiaobai Zhao

### PRIMARY ISSUES

**Cultural Heritage** (Traces of Industrial History that Made Syracuse Prosper) To understand the value of <u>industries</u> in forming the upstate New York's culture, and how contemporary cultures can be revitalized by the commemoration of the past.

#### **Urban Infrastructure** (Canal, Boulevard)

To impose notable proposal of architecture and to speculate new public improvements on to a continuous urban transportation infrastructure.

**Spatial Translation** (Machine, Manufacturing Procedure, Architecture) To suggest a methodology for translating and connecting between the object, system, and space under the characteristic discipline of an specific industry.

### PRIMARY ISSUES

**Cultural Heritage** (Traces of Industrial History that Made Syracuse Prosper) To understand the value of <u>industries</u> in forming the upstate New York's culture, and how contemporary cultures can be revitalized by the commemoration of the past.

#### Urban Infrastructure (Canal, Boulevard)

To impose notable proposal of architecture and to speculate new public improvements on to a continuous urban transportation infrastructure.

**Spatial Translation** (Machine, Manufacturing Procedure, Architecture) To suggest a methodology for translating and connecting between the object, system, and space under the characteristic discipline of an specific industry.

## Roman Culture Heritage

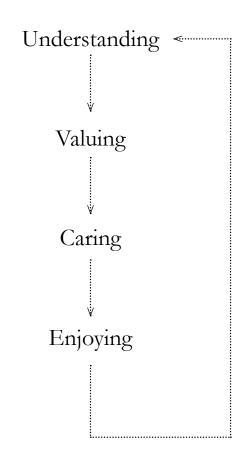


## Renaissance Culture Heritage



How can our industrial past be a valuable culture heritage that will benefit to public?

## **HERITAGE CYCLE**



### <u>CULTURAL HERITAGE</u>

Cultural heritage is a legacy, composed of **physical artifacts(tangible culture)** and **intangible attributes**, that inherit from past generations of the society, maintained in the present and bestowed for the benefit of future generations.

Cultural heritage includes:

#### **Tangible Culture**

(such as buildings, monuments, landscapes, books, works of art, and artifacts)

#### **Intangible Attributes**

(such as mood, feelings, attitude and qualitative condition)

## Tangible Culture

**Unoccupied Structures** 

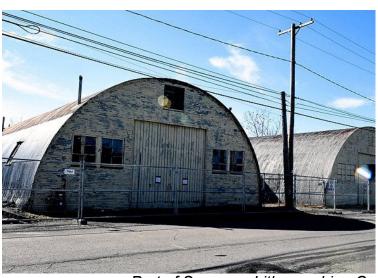
Monuments

**Artifacts** 

## **Unoccupied Structures**



Dick Blume/The Post StandardThe Gear Factory , West Fayette and South Geddes St.



Part of Syracuse Lithographing Co Quonset huts at 163 Solar St.



Clark Concrete, an old mixing plant, Solar and Van Rensselaer Sts. Ellen M.



the Easy Washing Machine factory building, Solar and Spencer St.

## **Artifacts**





Part of Syracuse Lithographing Co Quonset huts at 163 Solar St.



Clark Concrete, an old mixing plant, Solar and Van Rensselaer Sts. Ellen M.



the Easy Washing Machine factory building, Solar and Spencer Sts.

## **Monuments**



Salt Museum, 106 Lake Dr, Liverpool, NY 13088



Canal Museum 318 Erie Blvd E, Syracuse



Everson Museum 401 Harrison St, Syracuse



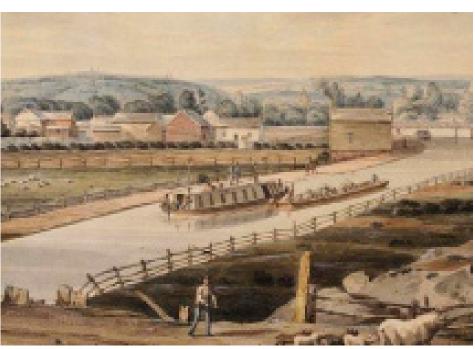
Mural Downtown Syracuse

## Intangible Attributes

Atmospheric Condition
Working Condition
Social Hierarchy
Living Status

# <u>Atmosphere</u>





## **Working Condition**





# Social Hierarchy



# **Living Status**



### PRIMARY ISSUES

**Cultural Heritage** (Traces of Industrial History that Made Syracuse Prosper)
To understand the value of <u>industries</u> in forming the upstate New York's culture, and how contemporary cultures can be revitalized by the commemoration of the past.

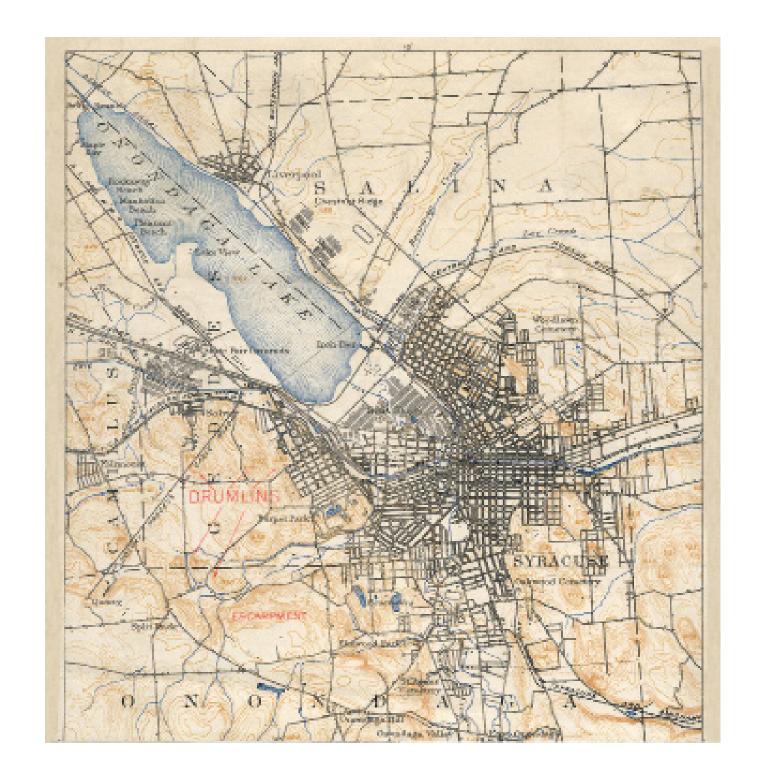
#### Urban Infrastructure (Canal, Boulevard)

To impose notable proposal of architecture and to speculate new public improvements on to a continuous urban transportation infrastructure.

**Spatial Translation** (Machine, Manufacturing Procedure, Architecture) To suggest a methodology for translating and connecting between the object, system, and space under the characteristic discipline of an specific industry.

### **URBAN INFRASTRACTURE**

Infrastructure refers to the fundamental facilities and systems <u>serving a country, city, or other area</u>, including the services and facilities necessary for its economy to function. Infrastructure is composed of public and private physical improvements such as roads, bridges, tunnels, water supply, sewers, electrical grids, and telecommunications (including Internet connectivity and broadband speeds). In general, it has also been defined as "the physical components of interrelated systems providing commodities and services essential <u>to enable, sustain, or enhance societal living conditions</u>".

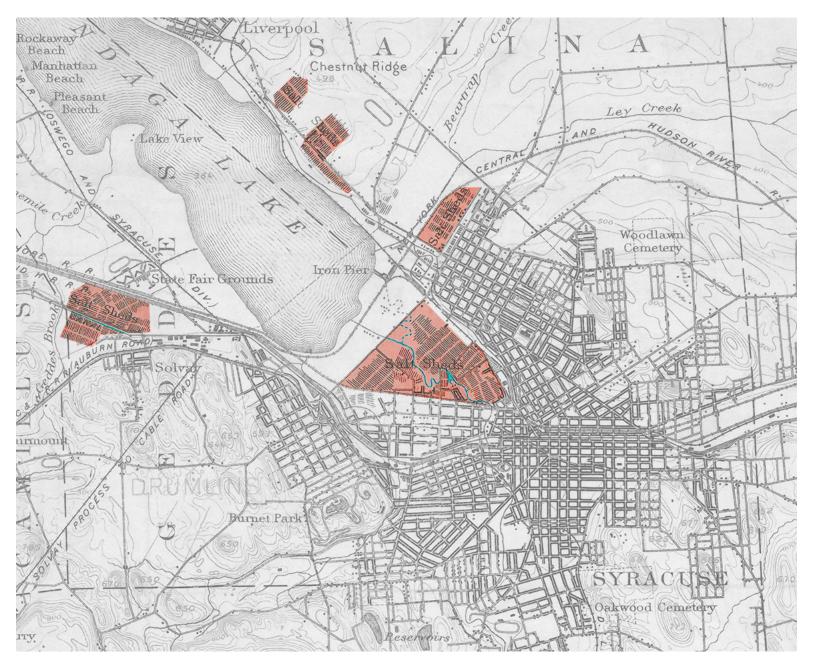




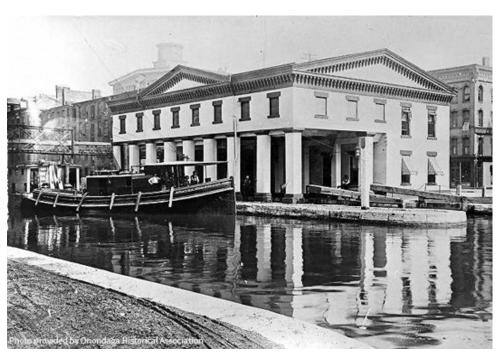


Census Year	Syracuse Population
1820 Erie Canal reaches Syracuse	250
1825 Erie Canal opens statewide	600
1830 Enlargement of Canall begins	11,014
1850 Syracuse incorporated as a city (1848)	22,271
1865 Civil War ends	31,784
1920 Downtown Syracuse stretch of canal abandoned when	
Barge Canal (1918) passes north through Oneida Lake	171,717

### **Erie Canal**



## **Erie Boulevard**





### PRIMARY ISSUES

**Cultural Heritage** (Traces of Industrial History that Made Syracuse Prosper)
To understand the value of <u>industries</u> in forming the upstate New York's culture, and how contemporary cultures can be revitalized by the commemoration of the past.

#### **Urban Infrastructure** (Canal, Boulevard)

To impose notable proposal of architecture and to speculate new public improvements on to a continuous urban transportation infrastructure.

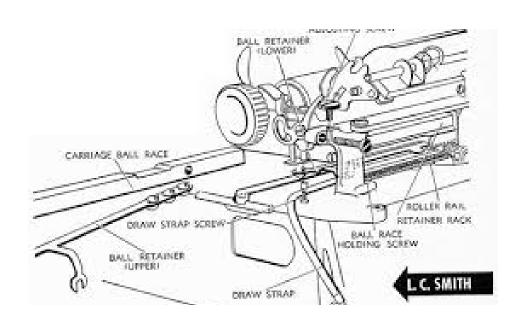
Spatial Translation (Machine, Manufacturing Procedure, Architecture)

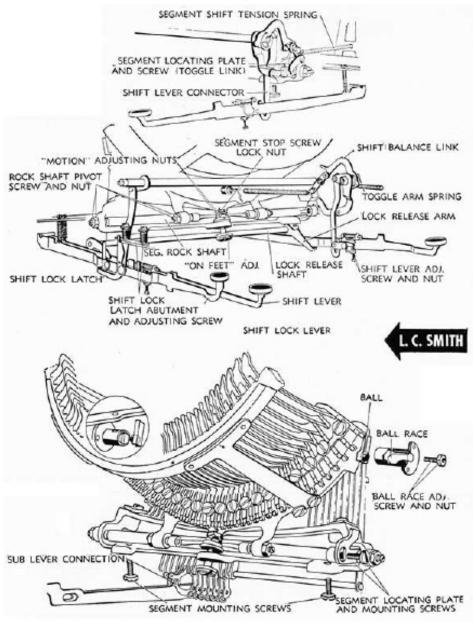
To suggest a methodology for translating and connecting between the object, system, and space under the characteristic discipline of an specific industry.

## **SPATIAL TRANSLATION**

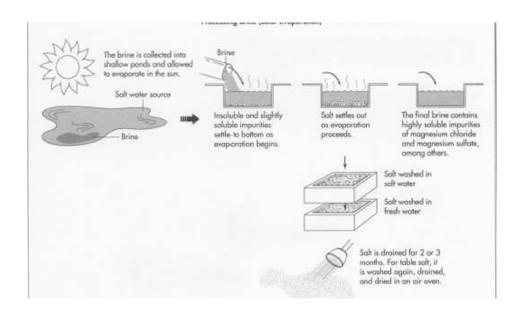
Converting the tangible and intangible qualities of an object or a system into an architectural ambition.

### **Machine**





## **Process**

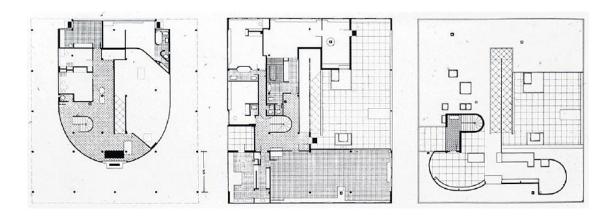


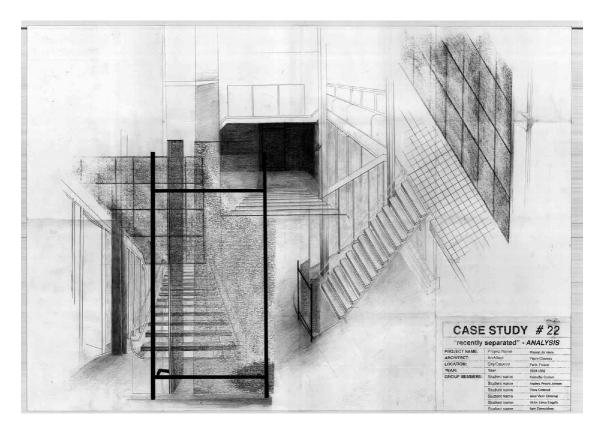






## Translation to Architecture





#### **Manifesto**

Culture heritage is a combination of tangible traces of history and intangible attributes. Although in most condition, only the tangible artifacts were able to remain and sustain, the intangible qualities were lost and became obsolete. To have a broader understanding and sophisticated experience of such past and history, the combination and connection between the tangible and intangible became critical and significant. Architecture, as a device that can both protect and revitalize such cultural heritage, is to mediate and to link the tangible and intangible part of history.

### Semester Project Statement

Syracuse, as part of the Upstate New York used to be an essential economic center of the United States. This not only was resulting from its once influential salt industry and its easily accessed canal infrastructure, but also was heavily influenced by the industrial innovation. Without trained engineers, the people in Syracuse designed machines for excavating the earth and building the Erie Canal. And with easy transportation, goods and industrial products created and produced from Syracuse were shipped and transported. This brought prosper and wealth to the Syracuse.

With new transportation technology development including the railways for trains and highways for car, Erie Canal lost its competitive advantage. As a result, industrial goods from Syracuse, with great qualities and quantities, can no longer find its market sufficient to consume all these production. A great number of factories were either relocate to other parts of the country, or shut down permanently. And the Erie Canal was transformed to a city road. The image of industrial prosperity had lost and left behind, were only traces of history.

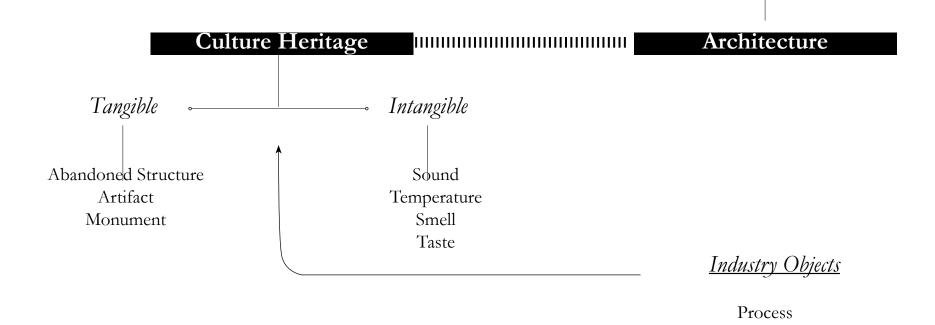
This tangible ruins and intangible image of prosperity is waiting to be reconnect, revitalize, reestablished. Architecture, as a device that can both protect and revitalize such cultural heritage, is to mediate and to link the tangible and intangible part of history. An industrial memorial that is composed of a spatial translation of such industrial image can be a great way to memorize, revitalize, and relink the tangible and the intangible of industrial culture heritage.

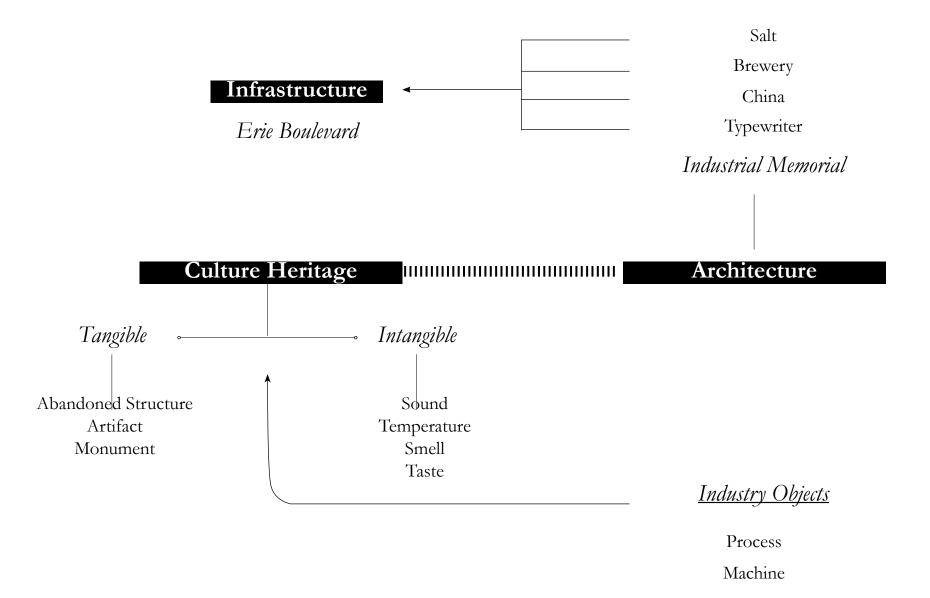
Industrial Memorial

	Culture Herita	age		Architecture
Tangible	0		Intangible	

#### Industrial Memorial

Machine





## **PRIMARY INDUSTRIES**

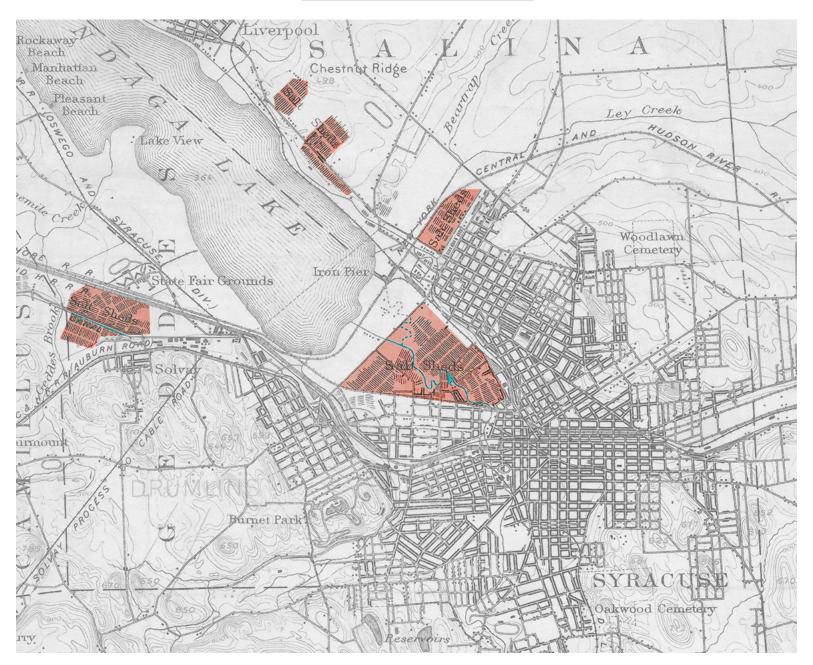
Typewriter | L.C. Smith & Brothers

Brewery | Moore & Quinn

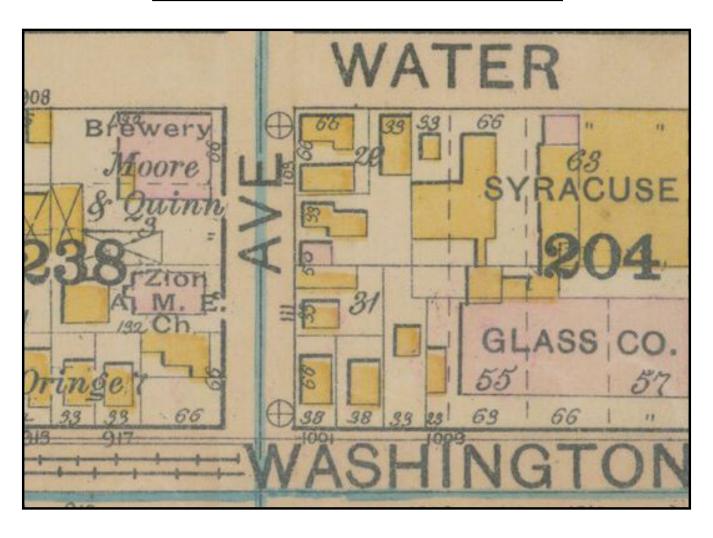
Salt Shed | The American Dairy Salt Company

China | Onondaga Pottery Company (O.P. Co.)

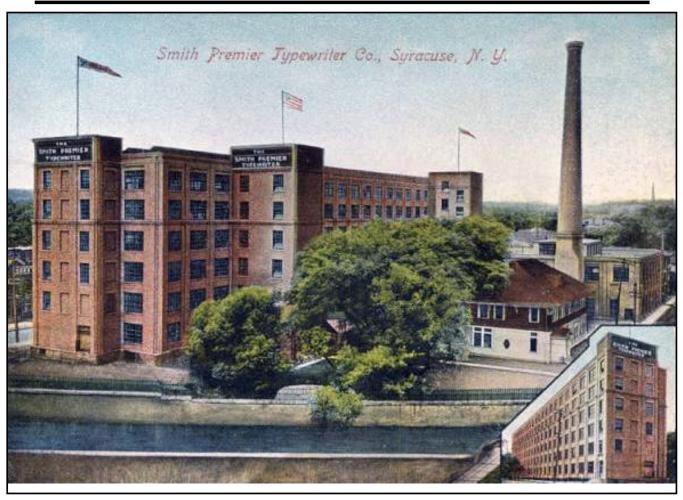
#### Salt Sheds



#### **MOORE & QUINN**



## L.C. SMITH & BROTHERS



#### **Site**

Salt Industry, Beer Industry and Typewriter Industry
Saltshed - Open Field | Brewery - Moore and Quinn, 120 S Crouse Ave | Typewriter Factory - L. C. Smiths and Brothers, 701 E Washington St



Site One Site Two Dimensions: 130' \* 240'

Dimensions: 130' \* 200'

Site Three

Dimensions: 185' \* 200'

#### **Program**

```
Program
Memorial of Upstate New York Industry
Industry
Typewriter | L.C. Smith & Brothers
Brewery | Moore & Quinn
Salt Shed | The American Dairy Salt Company
China | Onondaga Pottery Company (O.P. Co.)
```

#### PROGRAM SIZE

```
Program Dimension Scope:
```

Small to Micro

Controllable

Blend to Erie Boulevard urban fabric

#### Footage

2,500 sf

#### Program Includes:

Main Spaces

Gallery Space 3,500 sf

#### Other Spaces

Restrooms 500 sf

Reception 1,000 sf

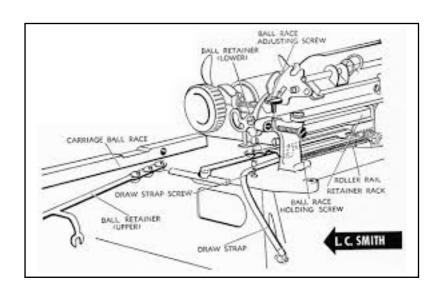
Storage 500 sf

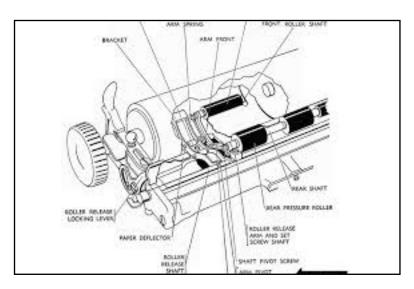
#### Research Exercise Intro

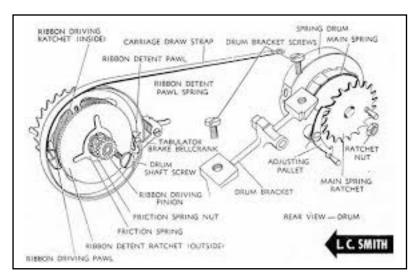
Analyze Tangible Translate Tangible Translate Intangible

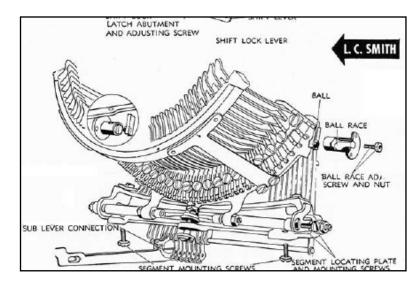
#### **Output**

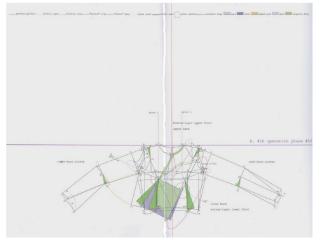
1.Object / System Drawing2.Mood Drawing3.Physical Model

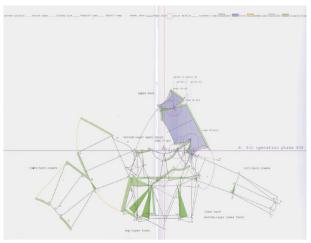


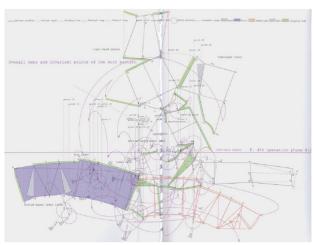


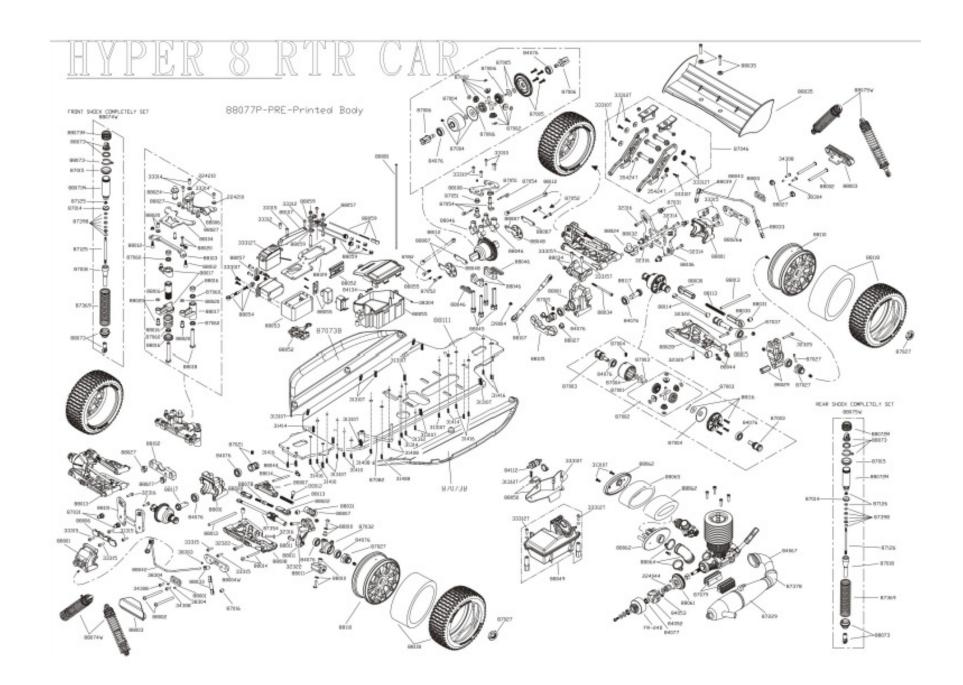








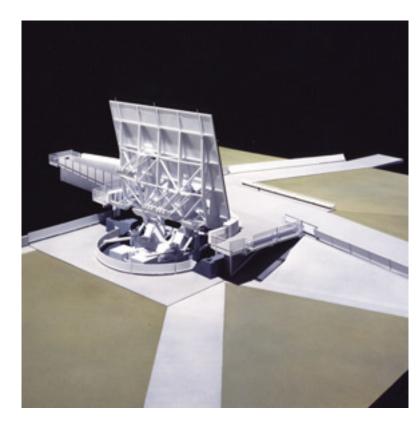




# **Strategies**

## **Reflection**





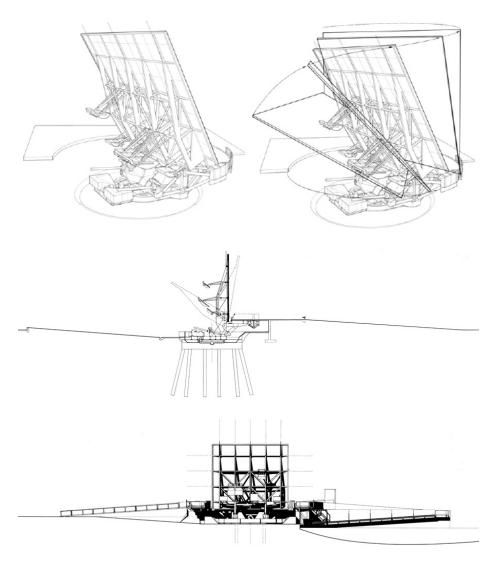
Astronauts Memorial, J.P.A., Kennedy Space Center, Florida,

## **Replace**



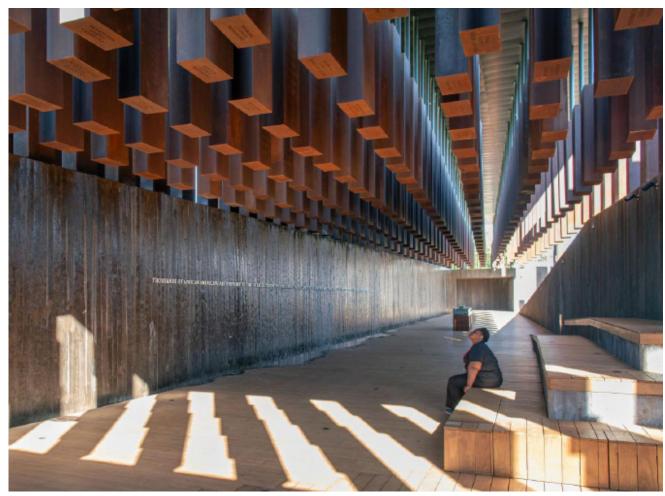
Maison de Verre, Pierre Chardeau, Pairs

#### **Mechanized**



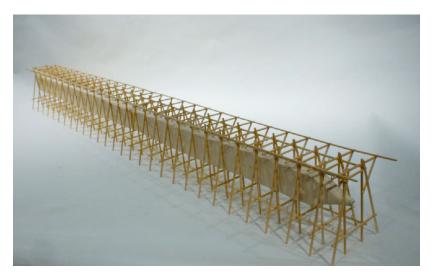
Astronauts Memorial, J.P.A., Kennedy Space Center, Florida,

#### <u>Inversion</u>

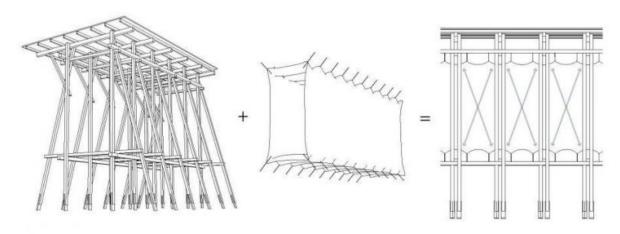


The National Memorial for Peace and Justice, Mass Design Group, Montgomery, Alabama

## **Derive**

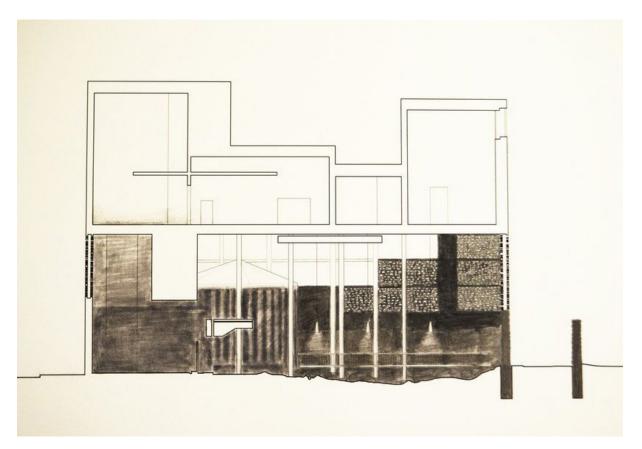






Steilneset Memorial / Peter Zumthor and Louise Bourgeois, Vardø, Norway.

## **Imposition**





Koluba Museum, Peter Zumthor, Köln, Germany

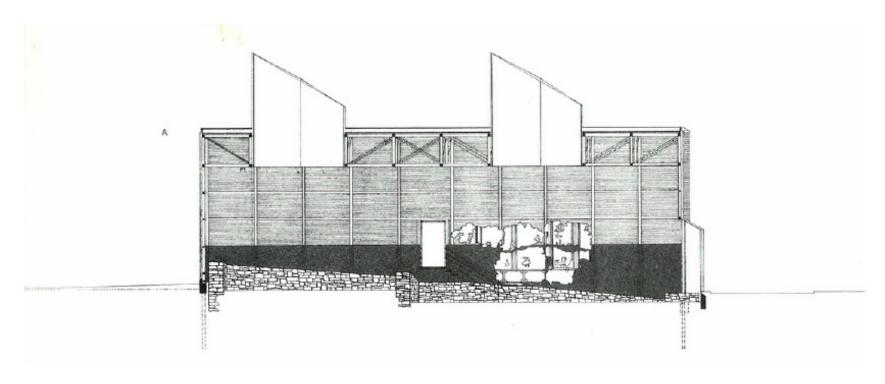
## Rebuild





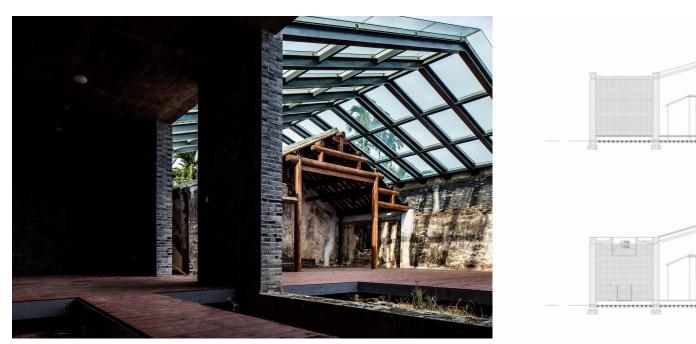
Ruin Studio / Lily Jencks Studio + Nathanael Dorent Architecture, Dumfries, United Kingdom

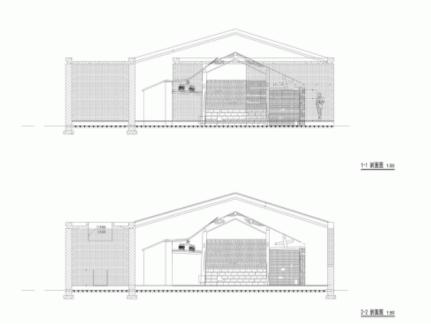
## Rebuild



Shelter for Roman Ruins in Quiet Solitude, Peter Zumthor

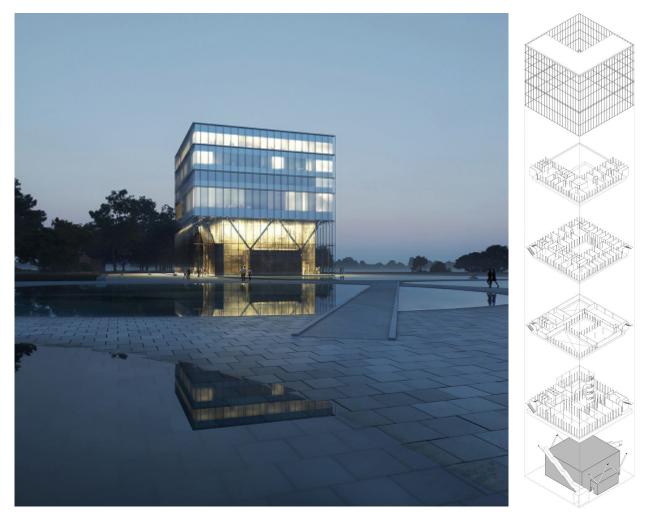
## Cover





Shengdetang Ruins Gallery / CHCC of Tsinghua University, Hainan, China

## Redefine



Heritage Center Atop a WWII Bunker, Dorte Mandrup,

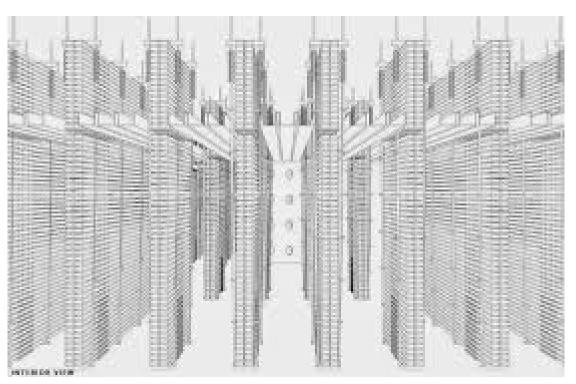
## **Blend**





Deck Over A Roman Site / Amann-Canovas-Mauri, Cartagena, Spain

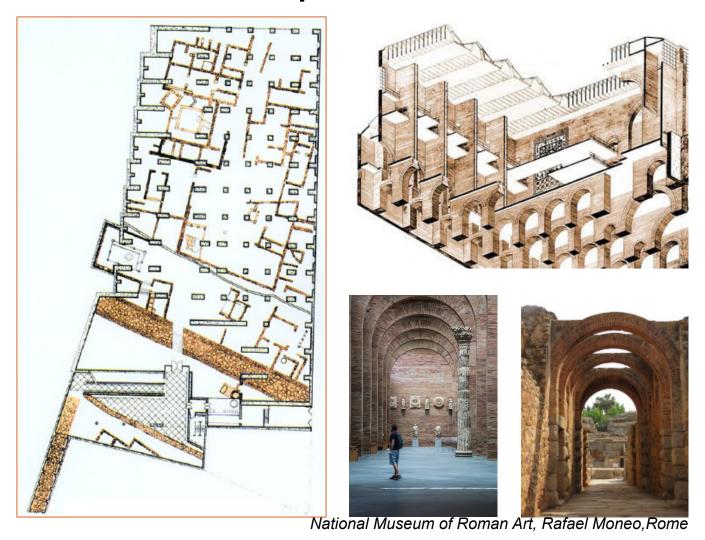
# **Mimic**





Swiss Sound Pavilion, Peter Zumthor, EXPO 2000

# Reproduce



## **Localization**



Serpentine Pavillion, James Grey West, Kensington Gardens, London