METAMORPHOSIS

The generative idea is informed by the industrial layout. There are four major transportation lines: Boulevard Maréchal Juin, Rue des Usines, rails and river Loire.

For centuries those lines served as connections for transporting. Two proposed bridges mitigate against the barrier effect of rails and link wider
terminates journeys from city. Architecture is supported by gentle sound emanating from structure.

New uses include

sonoduc silo

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Royal De luxes

Factory of wonder, dream of every child, exhibition public space, street theatre.

l’Esclain

Oldest building of area, always served as shipyard for sailing boats and sailors club. New uses include swimming pool.

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MAIN FUNCTIONAL ZONES

Sound Chambers

The outside form of silo remains intact. They are manifestation of visual aspects of sound (Cymatics). Cymatics: [Typically the surface of a plate, diaphragm or membrane is vibrated, and regions of maximum and minimum displacement are revealed. Different patterns emerge in the modulatory medium depending on the geometry of the plate and the driving frequency.]

First Chamber is filled with sand that is on the lower part of cylinder followed with topographical path. This installation is focusing on touch.

Second Chamber is filled with water that is placed in upper part of silo, vibrations create different patterns which are also reflected on light on walls of silo.

Third Chamber sound is transmitted through Rubens tube. The tube is sealed on both ends, but one end is a (Propane-resistant) rubber membrane that allows sound to pass through. A speaker, trumpet, loud sibling, or any other sound source is placed on this membrane end. As a result of gas flow in different areas, results in different sound height, and it amplitude is high enough a defined sound wave emerges from the furnace.

Fourth Chamber is a sound catcher with tubes going in different directions catching the sound of water, forest, people in the street of just silo. Other chambers are left for utilities, temporary exhibitions, experimentation and sound library.

Wave

Light transmission and sound are one of the most interesting and unique experiences Sonoduc can offer. It resembles of visual aspects of sound (Cymatics). Cymatics: [Typically the surface of a plate, diaphragm or membrane is vibrated, and regions of maximum and minimum displacement are revealed. Different patterns emerge in the modulatory medium depending on the geometry of the plate and the driving frequency.]

Putting the sound rough line, like rough any other tube, sound wave forms are repetitive amplitude. It creates echo and it wakens is equation. The idea is to reshape part of the space so the sound wave would be transmitted across the building horizontally in order to get acoustic through entire object.

Following the sound and controlling spread, the inner core of building was reshaped in unexpected way. This is an experiment of dragging the light to follow the curve of the wave. Sound distribution and behaviour was a driving force leading the interior its unique form.

6 Batteries

Serving as Studio apartments, recording studios, ateliers, archive, administration and in lower floors restaurant and kitchen.

Greatest challenge represents introduction of sufficient light, music-box mechanism serves as inspirational source. Internal steel structure supports elevators, staircases and modular units of various functions.
EXPERIENCING SONOZUC

Scenography of sound and light, entering via tall red door visitor are introduced through light filled entrance hall. From here visitor proceeds through spaces infused with variety of sounds. Physical materiality of former storage is replaced with elusive sounds that give place unmistakable identity.
LEGEND:
1    entrance area
2    main area (concert, performance area)
3    machine room
4    communication
5    elevators
6    toilets
7    sound catcher chamber
8    visual chamber: ruben tube
9    visual chamber: water cymatics
10   visual chamber: sand cymatics
11   temporary installations
12   cloakroom
13   ticket selling
14   kitchen
15   recording studio
16   office