Architectural Solution

Unused Office Tower

Recycling Process

Mix Use Building

Local Community

Embodied Resources

1 2 3 4 5 6

How does the material grow?

Material as currently existing in the tower or harbour while still in use

Once the space ceases to be functional it can then be broken down into smaller pieces and relocated to a processing area

In this way, the site will have a controlled but steady growth of material that does not need to be brought in fresh from other sources saving time, energy, transportation and raw materials

Material Sources

Possible fabrication methods

Material Build Options

ON-SITE INVENTORY FROM BUILDINGS OR PARTS OF BUILDINGS NOT IN USE

POSSIBLE FABRICATION METHODS

Robotic Brick Laying

3D Printed Recycled Concrete

Reused Steel

Deconstruction of existing building

Structure

Addition to existing building

Solution

Structure

Subtraction of existing building

Solution

Detail Section 2

Detail A

Triple glazed IGU

White marble cladding

95mm Fiber batt insulation

300mm Acoustic separation assembly

80mm Rigid insulation

Detail B

When required: Deconstruction

When required: Masonry support

When required: Masonry support

When required: Masonry support

When required: Masonry support

Detail C

Detail A