

$$T = \frac{A/O + S}{A + D}$$

The Architecture of Silence through Assembly and Disassembly

Architecture Design
Juno

Silence:

It means observation.

It means finding a relationship between human and human, human and nonhuman, and nonhuman and nonhuman.

And finally, we can find a problem.

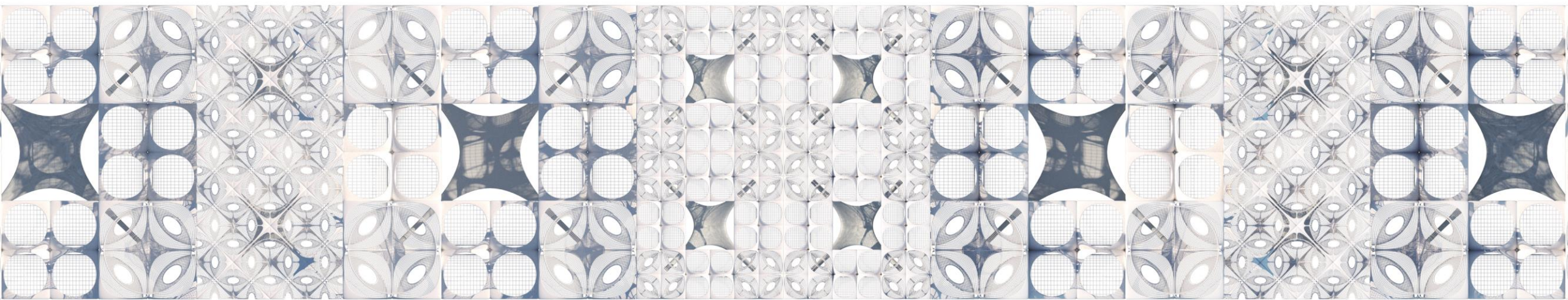
And also, we can suggest a solution.

**The Architecture of Silence
through Assembly and Disassembly**

Assembly ←————→ **Disassembly**

Governors Island

New York City



Assembly in Governors Island

‘temporary artificial forest as pavilion’



Killdeer Identification



Habitat Large fields and Grasslands
Nesting materials Grass
Nesting place Ground. Gravel
Nesting height 0~2000mm
Size body: 20~28cm / wing: 59~63cm

Yellow Warbler Identification

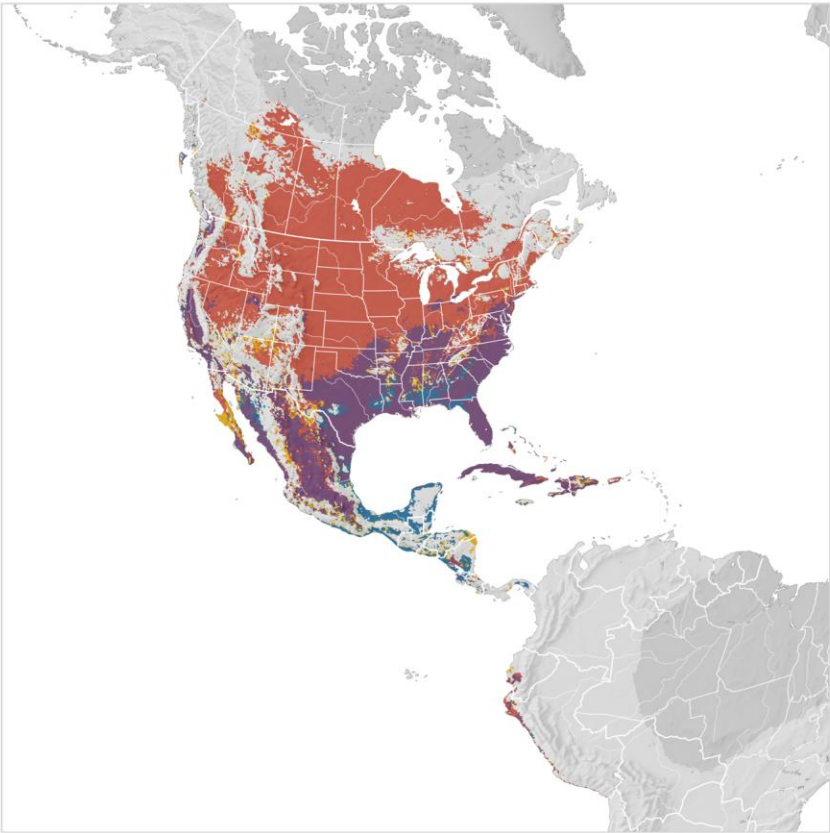


Habitat Thicket, Streams and Wetlands
Nesting materials Grass, Bark, Plants
Nesting place in the vertical of a bush or small tree
Nesting height 3000~6000mm
Size body: 10~18cm / wing: 16~22cm

Barn Swallow Identification



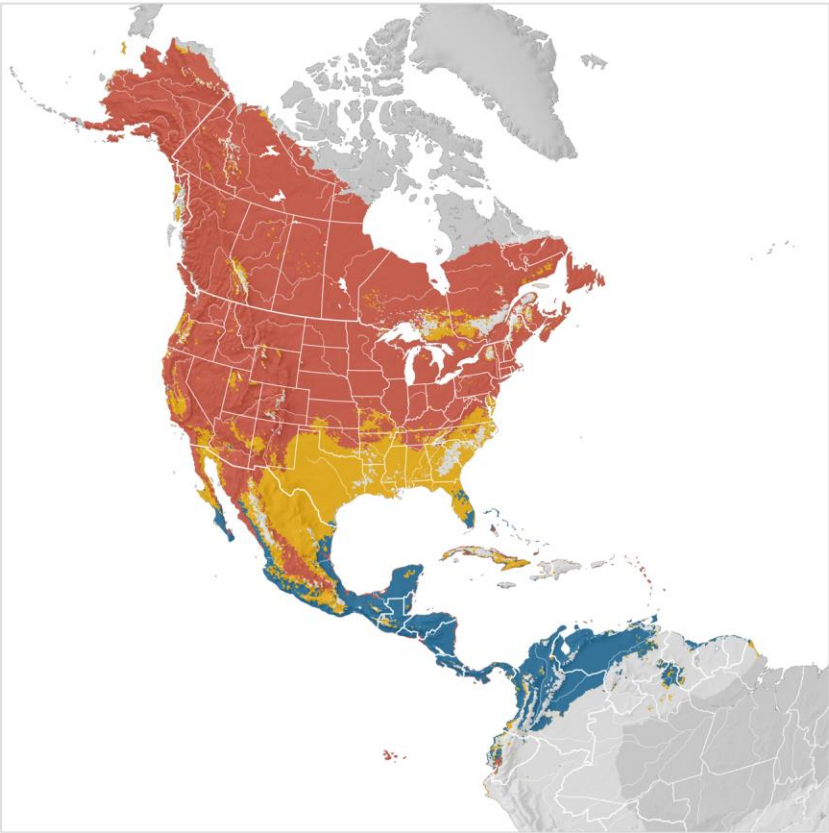
Habitat Large fields and Wetlands
Nesting materials Mud, Grass
Nesting place under the eaves of barns and stables, on structures near playing fields, or under bridges
Nesting height 2000~3000mm
Size body: 17~19cm / wing: 32~34.5cm



Killdeer
OCCURRENCE



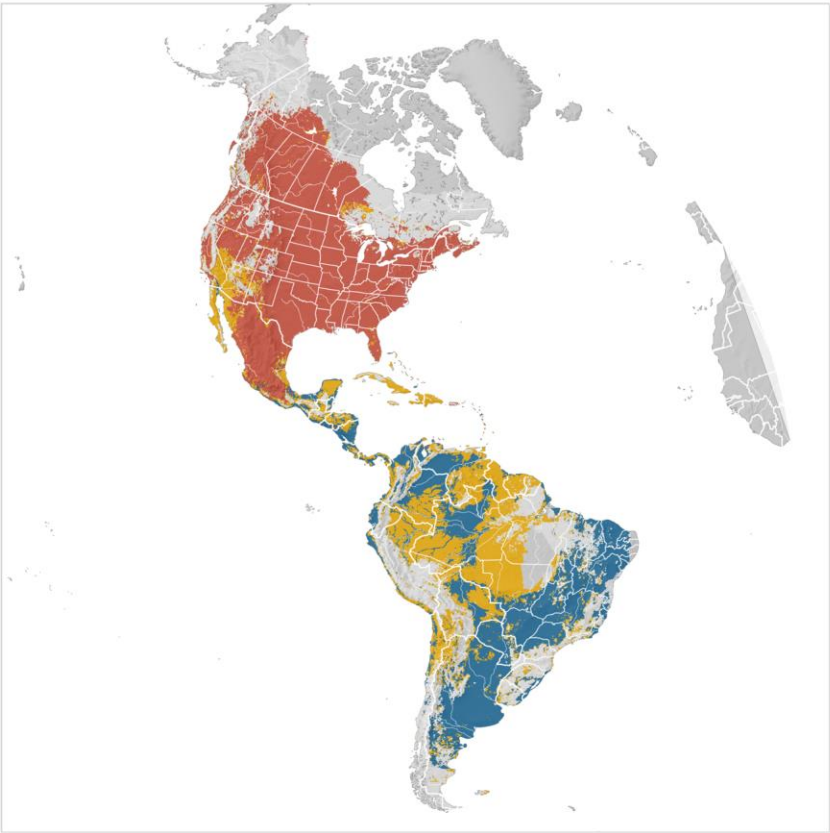
- Year-round
- Breeding season May 10 - Jun 28
- Non-breeding season Dec 21 - Jan 25
- Pre-breeding migratory season Feb 1 - May 3
- Post-breeding migratory season Jul 13 - Dec 14



Yellow warbler
OCCURRENCE



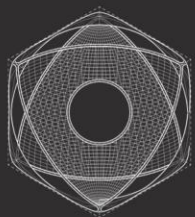
- Breeding season Jun 21 - Jul 13
- Non-breeding season Nov 16 - Feb 15
- Pre-breeding migratory season Feb 22 - Jun 14
- Post-breeding migratory season Jul 20 - Nov 9



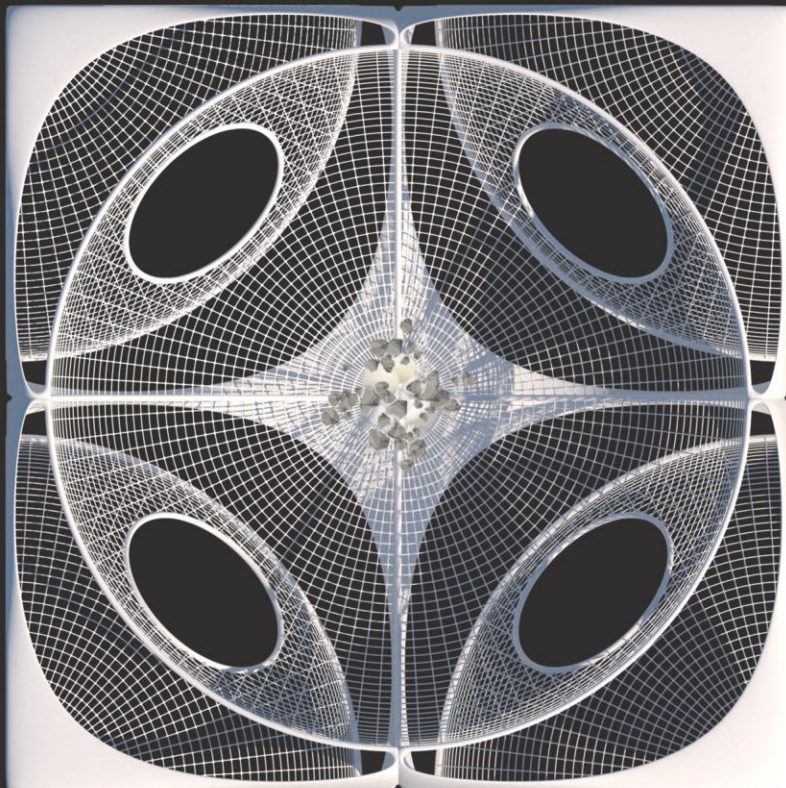
Barn Swallow
OCCURRENCE



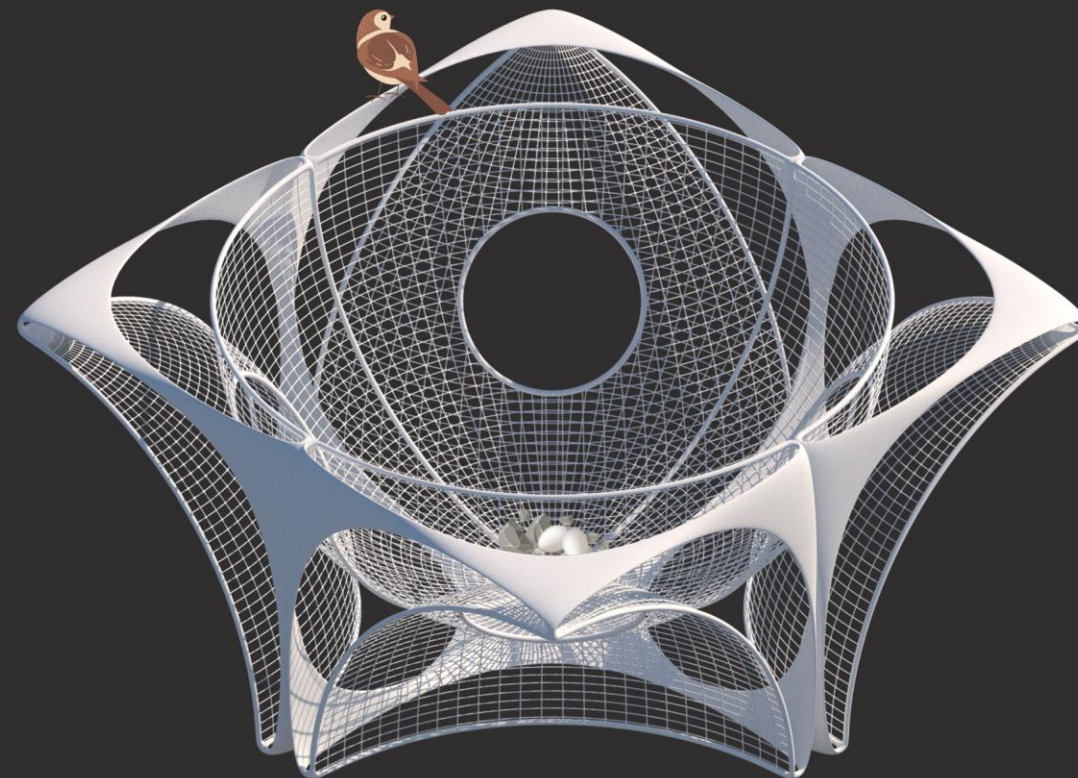
- Breeding season Jun 7 - Jul 13
- Non-breeding season Dec 21 - Jan 25
- Pre-breeding migratory season Feb 15 - May 31
- Post-breeding migratory season Jul 20 - Dec 14



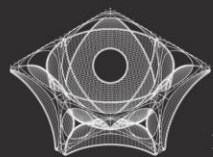
x4



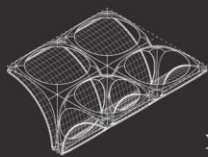
1200mm



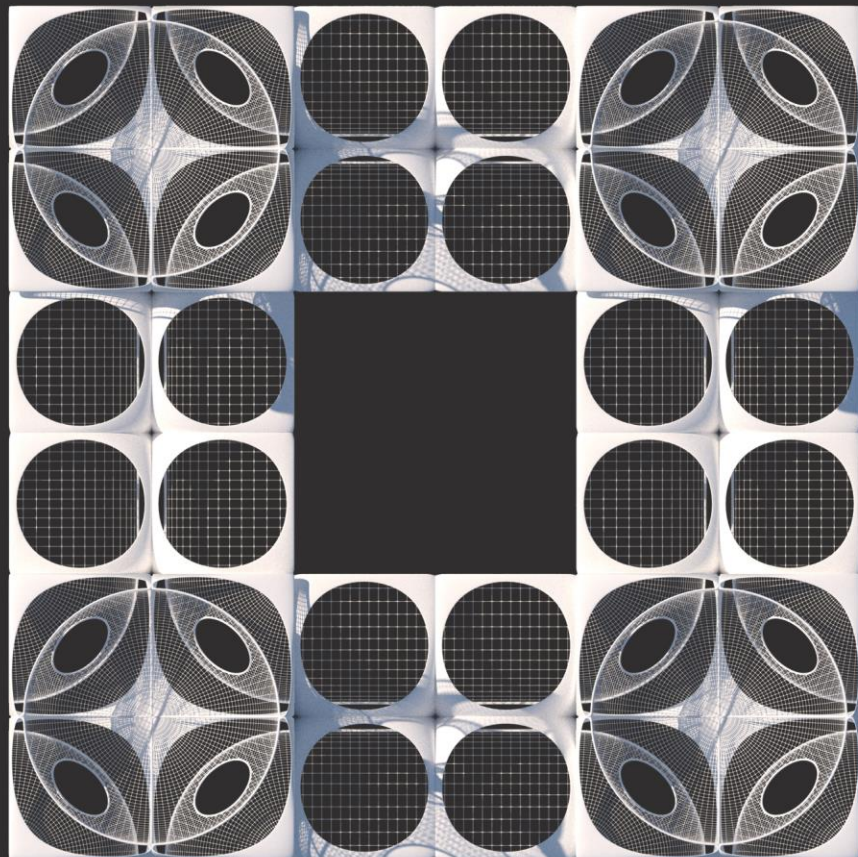
Killdeer module



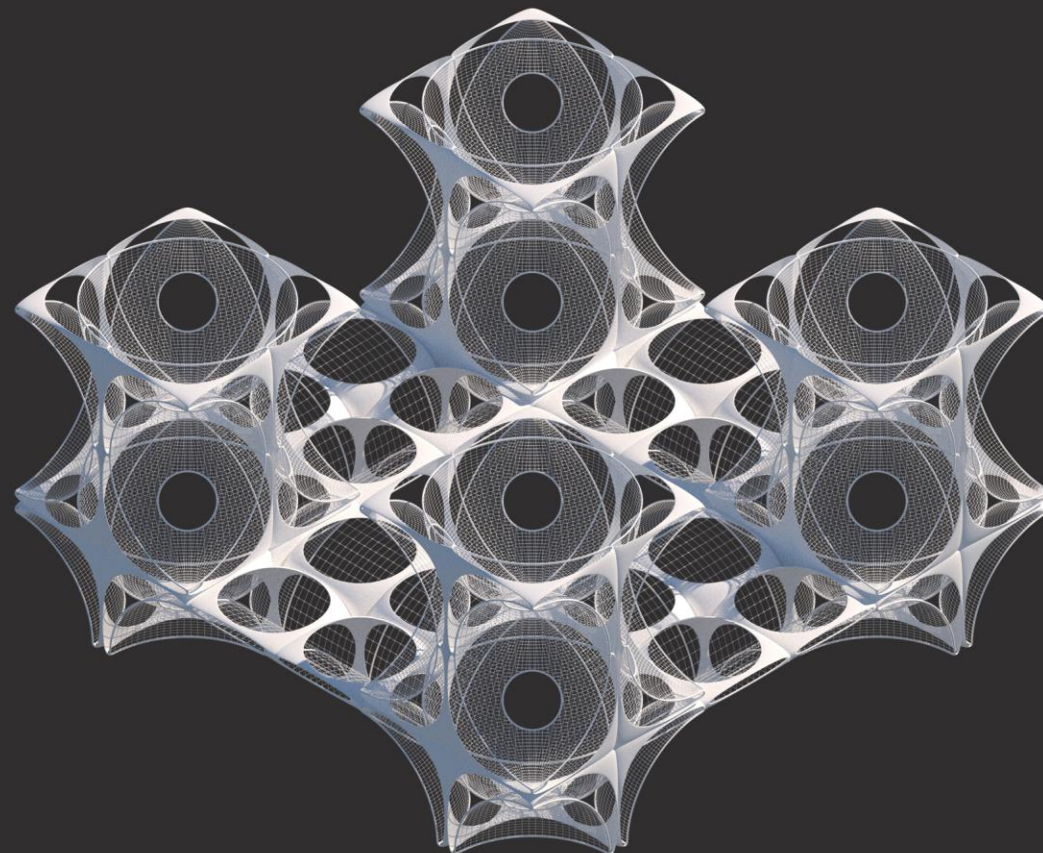
x12



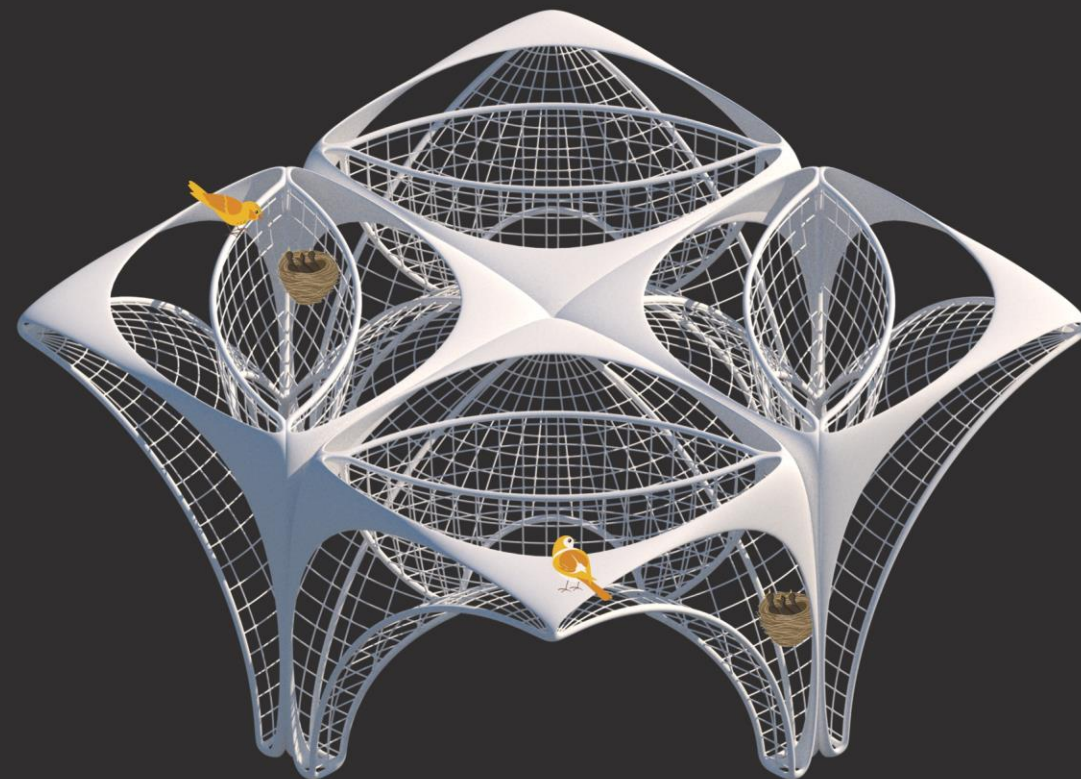
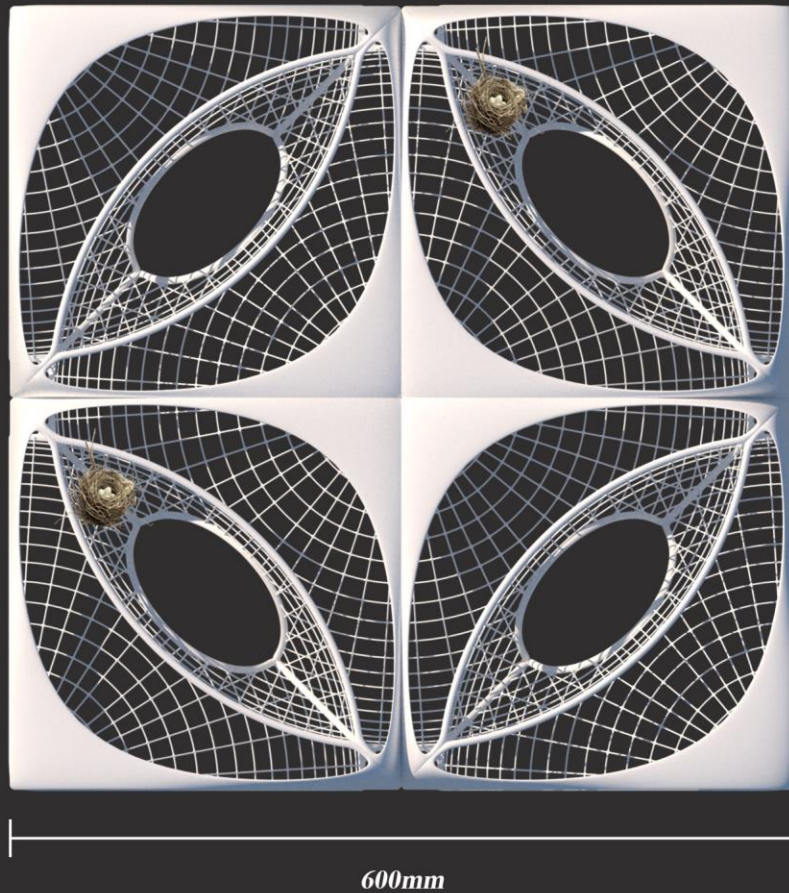
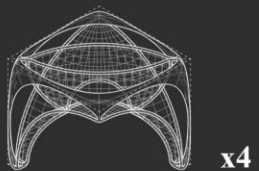
x4



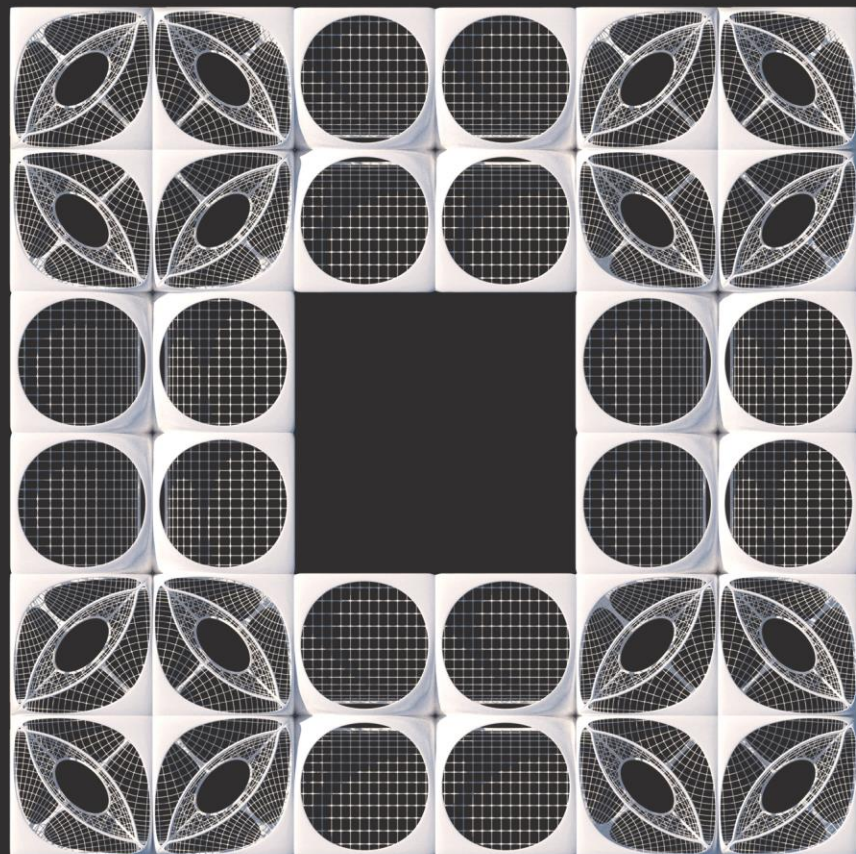
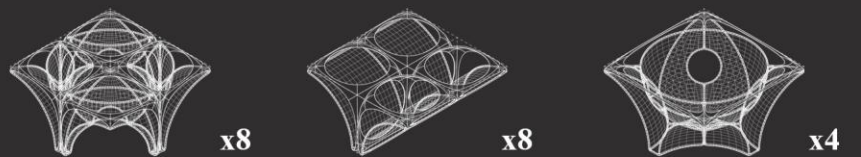
3600mm



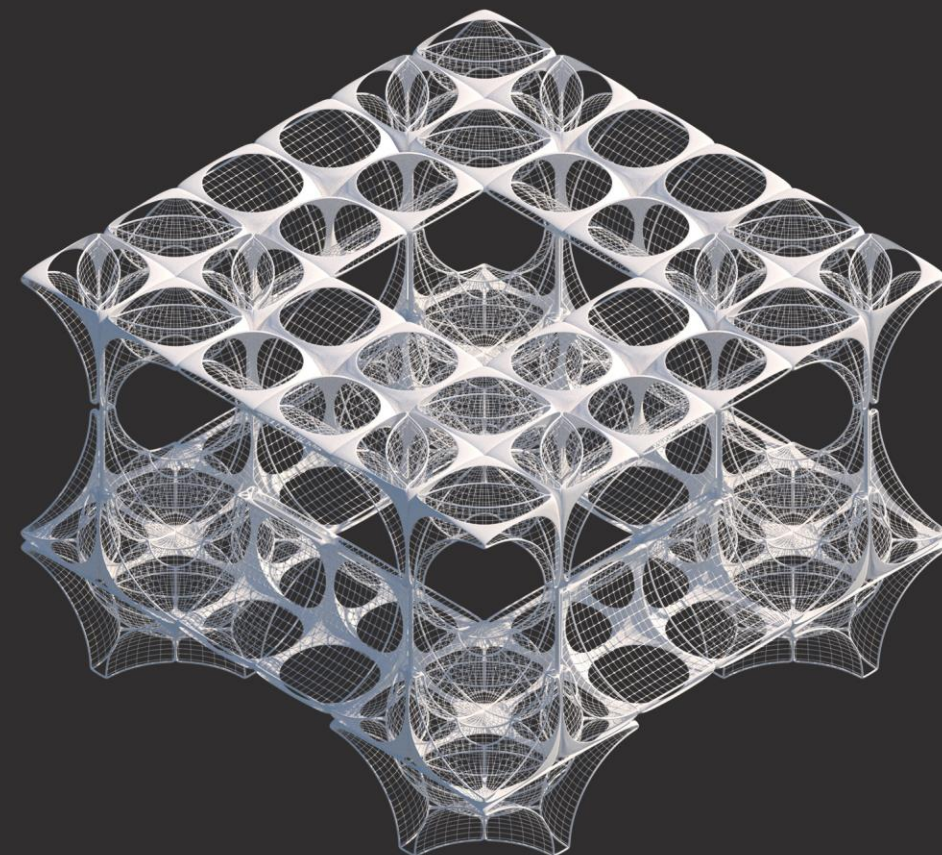
Killdeer Nest



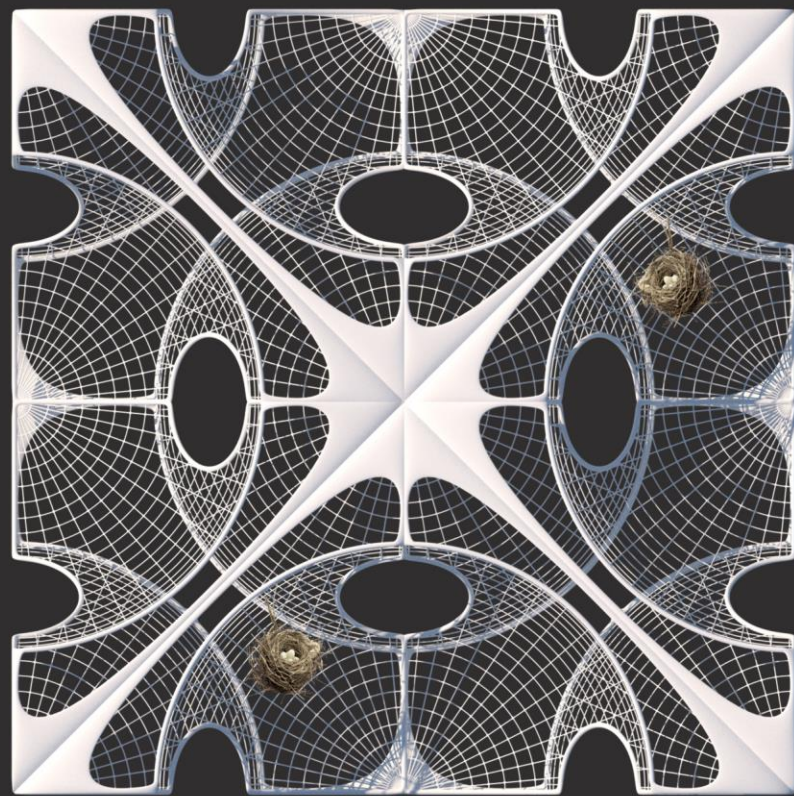
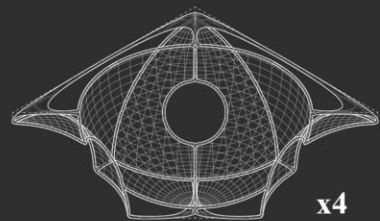
Yellow warbler module



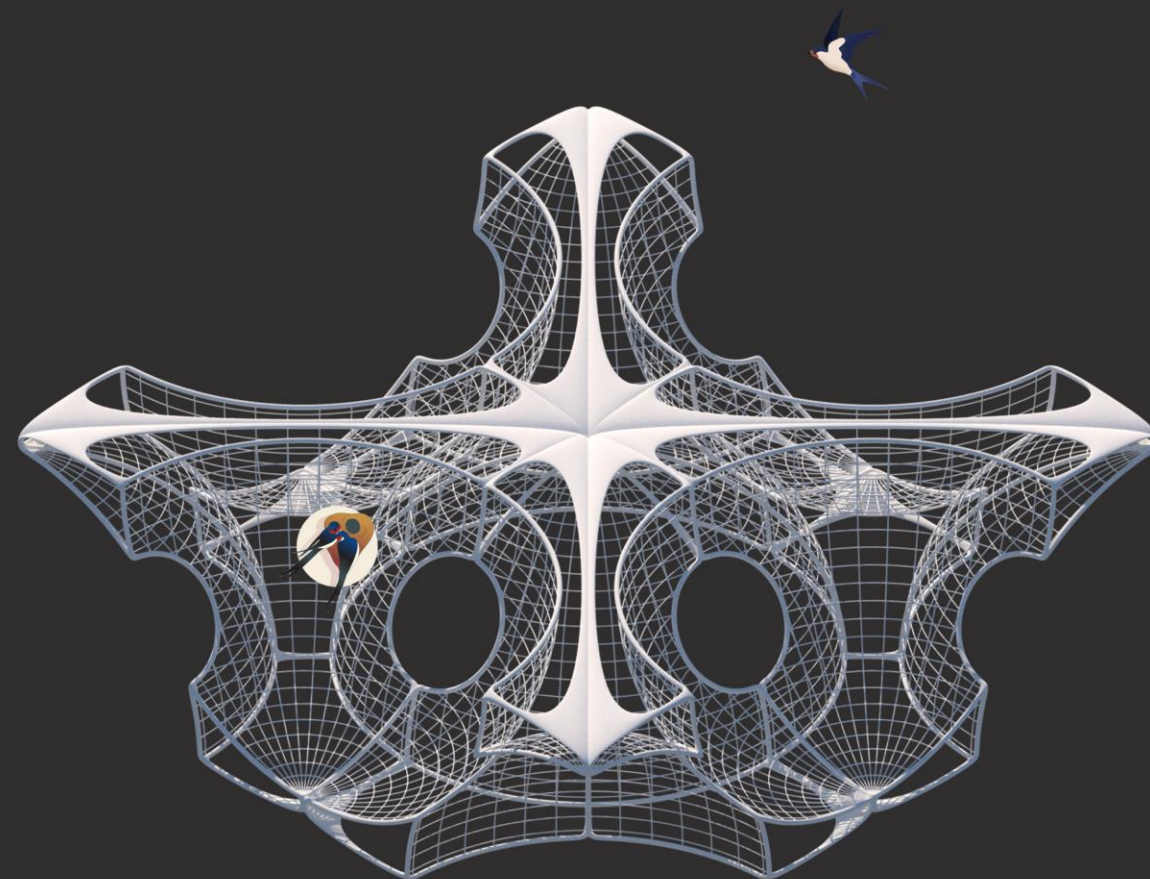
1800mm



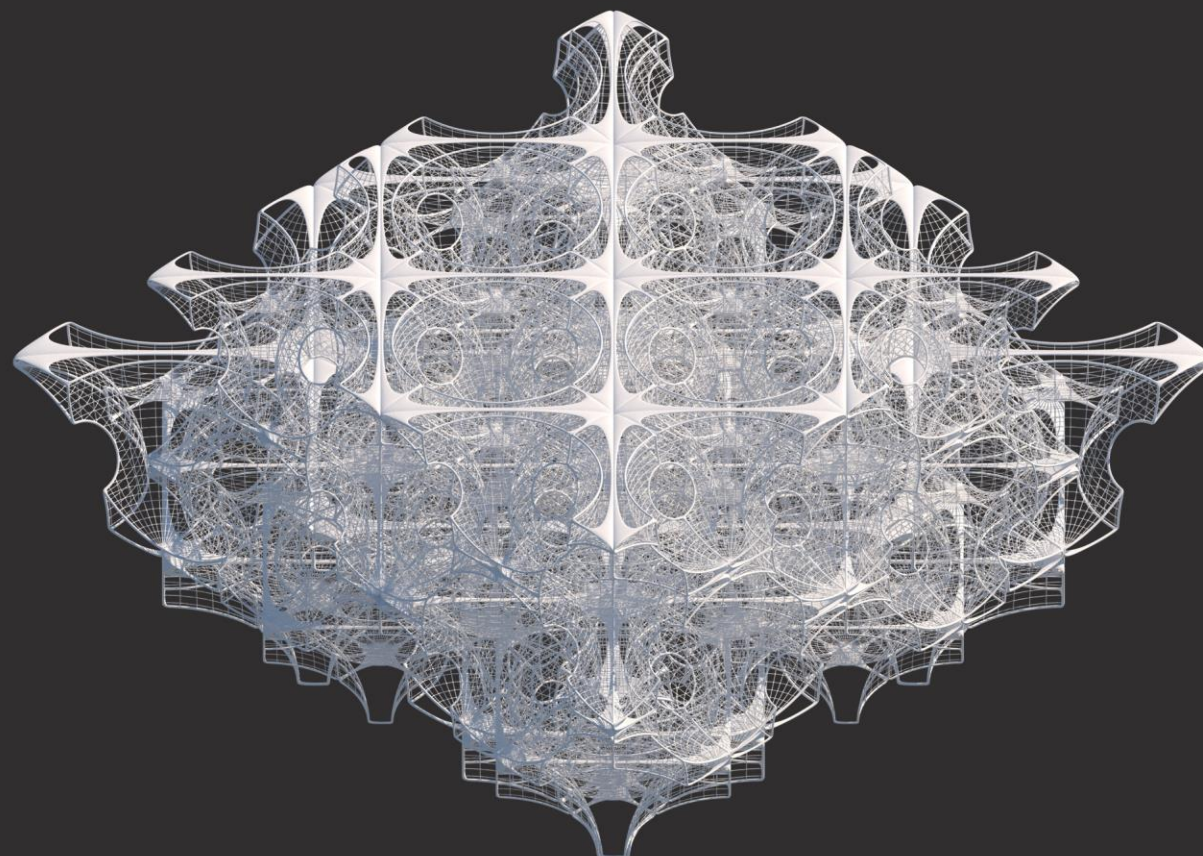
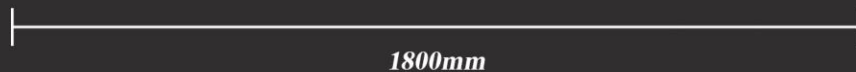
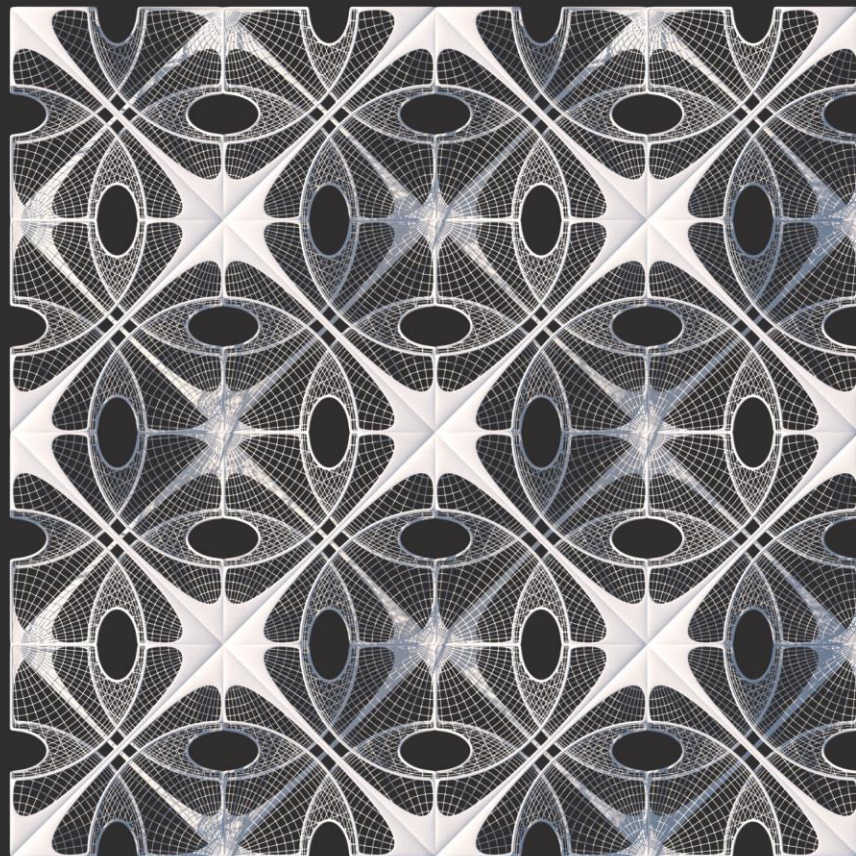
Yellow warbler Nest



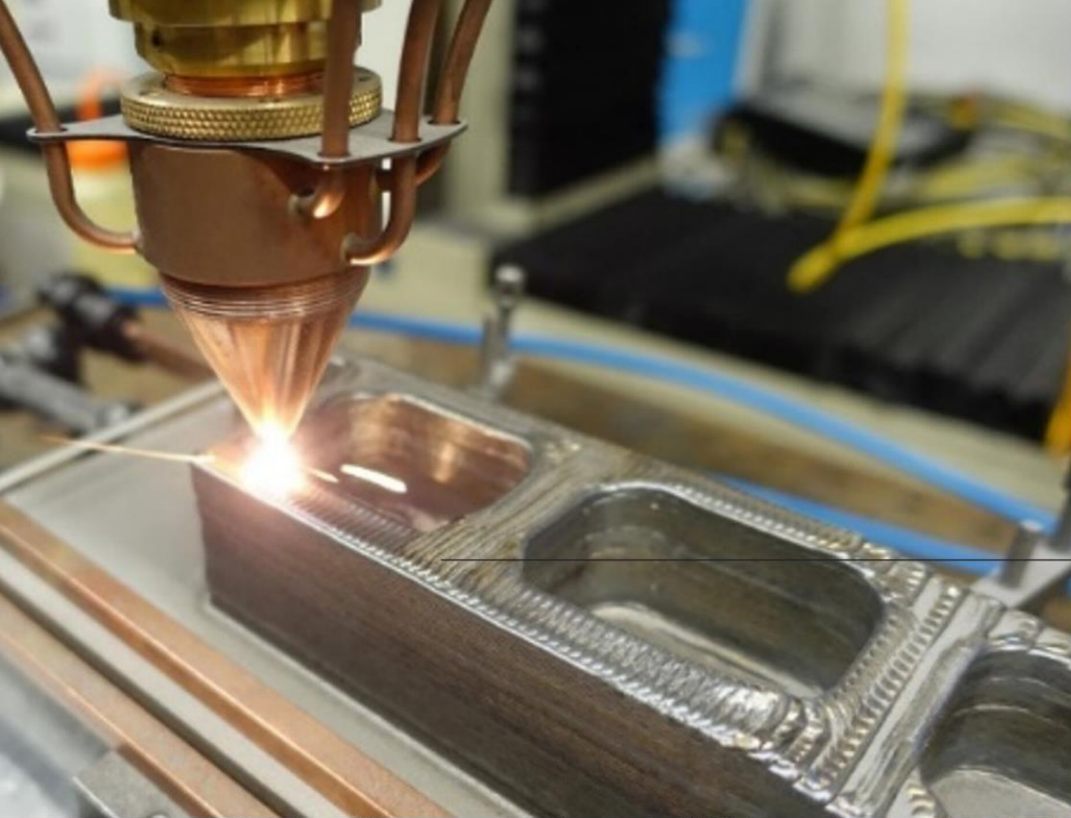
900mm



Barn swallow module



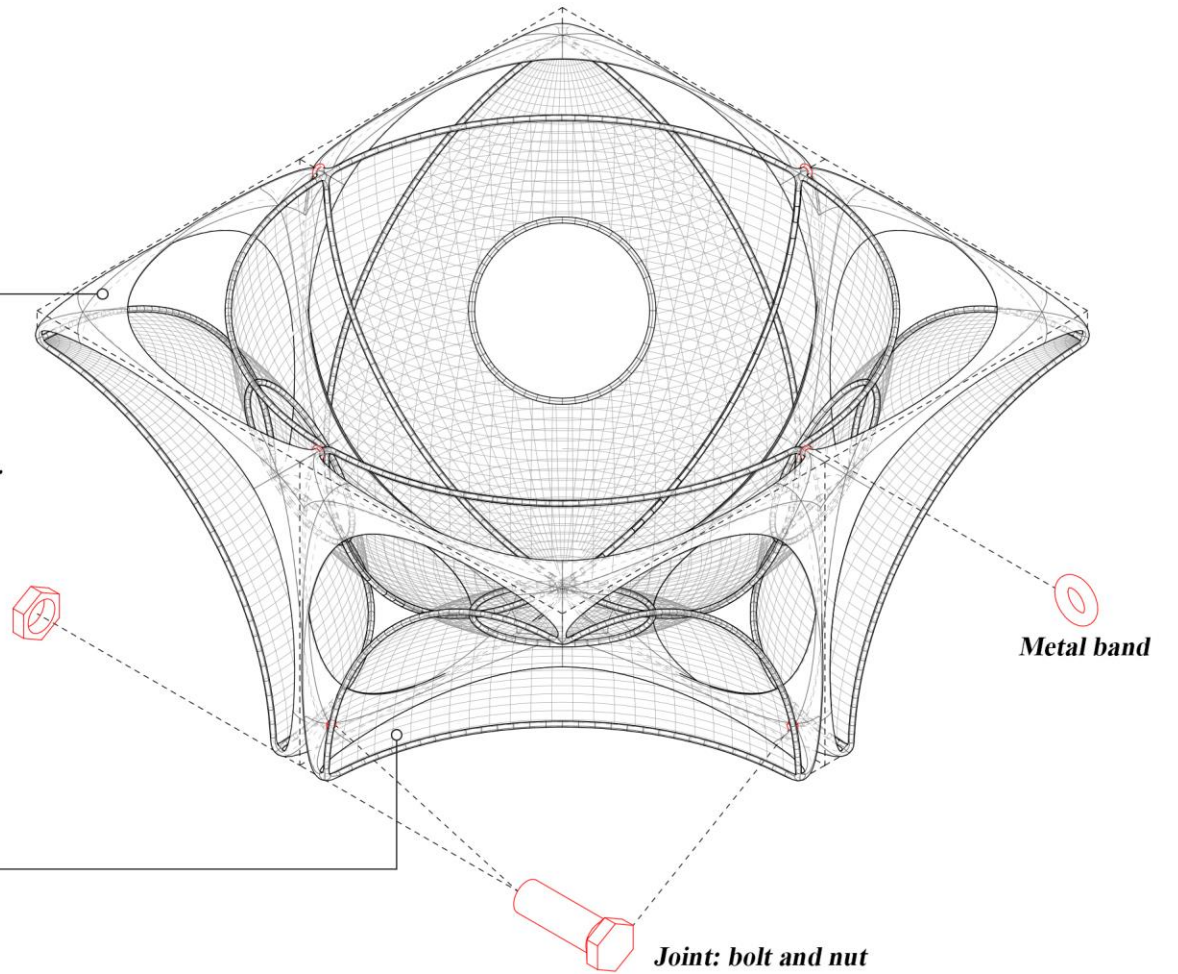
Barn swallow Nest

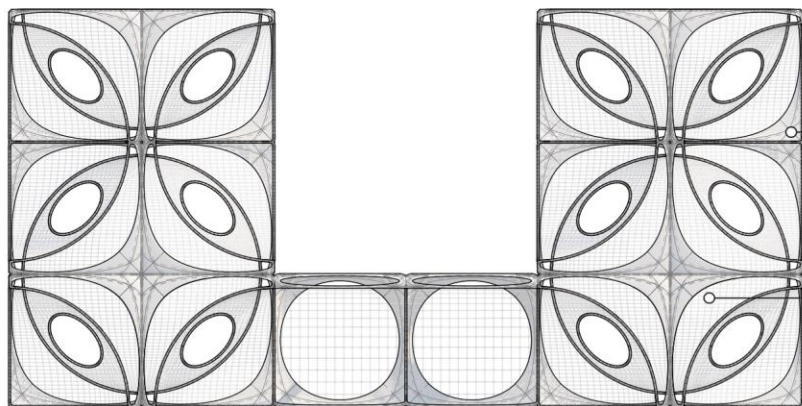


Metal 3D Printer



Net with Robotics





before



virginia creeper

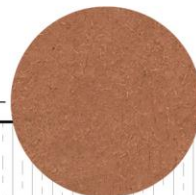
white steel



fishing net (upcycling)



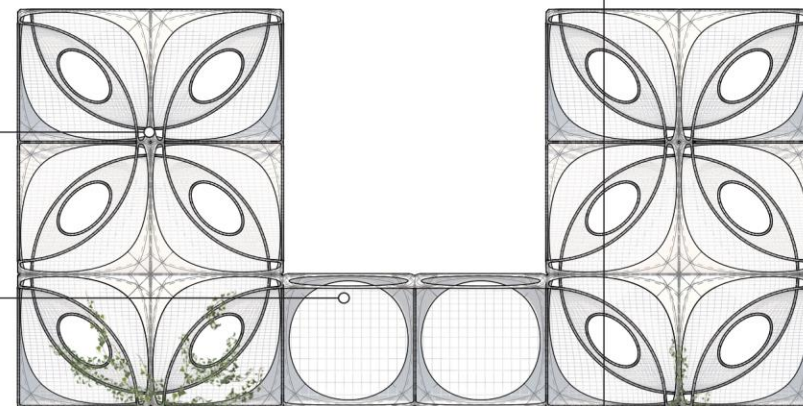
seeds brick



mud brick



feather under a microscope
200.0μm

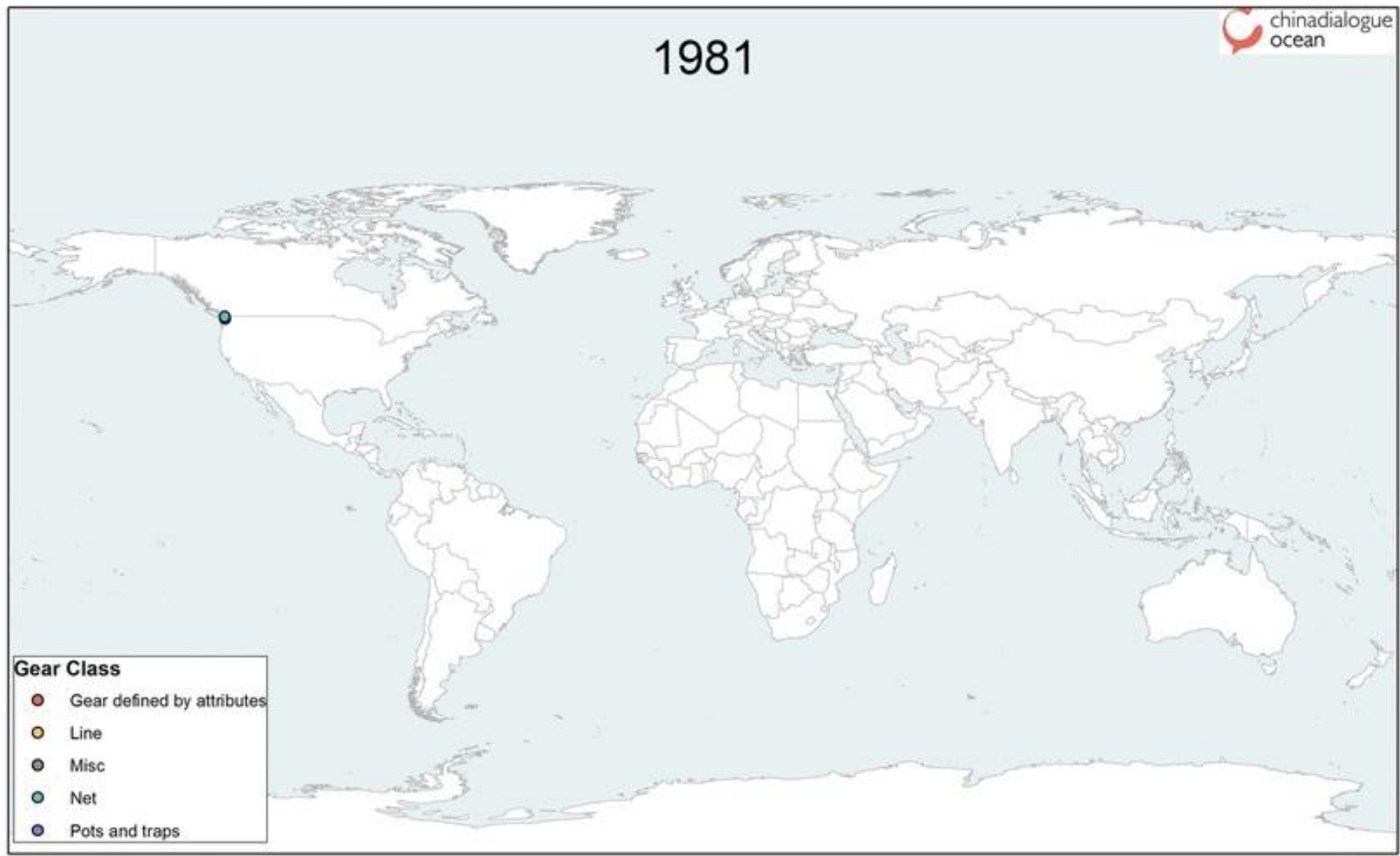


after

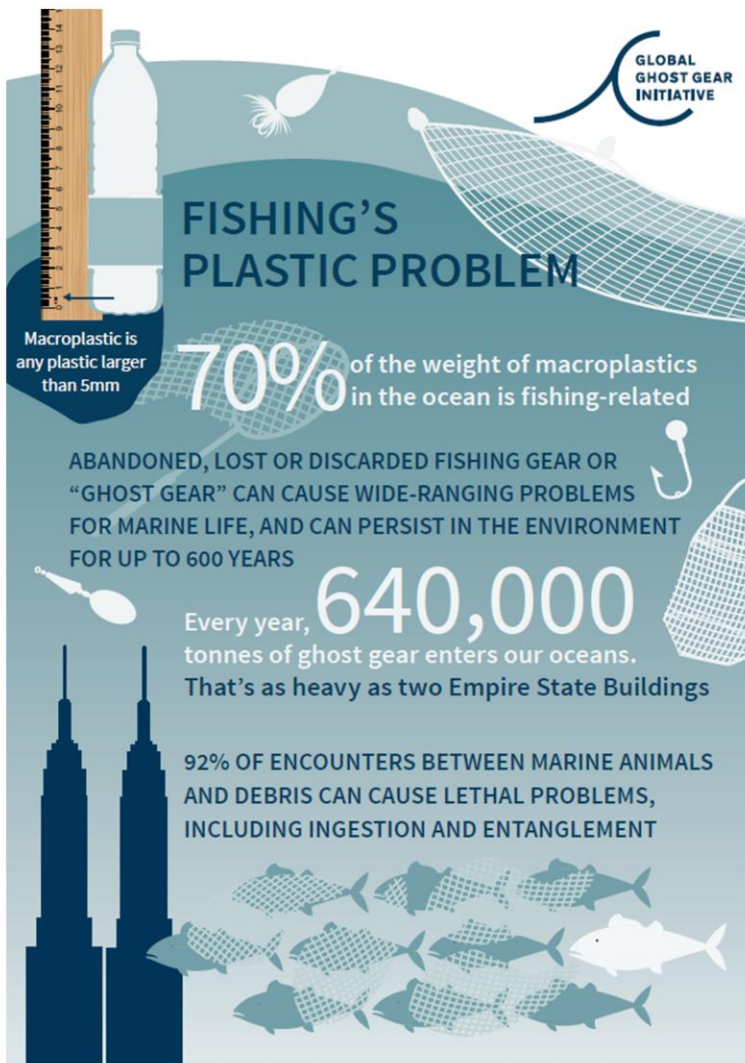


Virginia Creeper is for the Birds
-berries
-caterpillars
-moths and butterflies

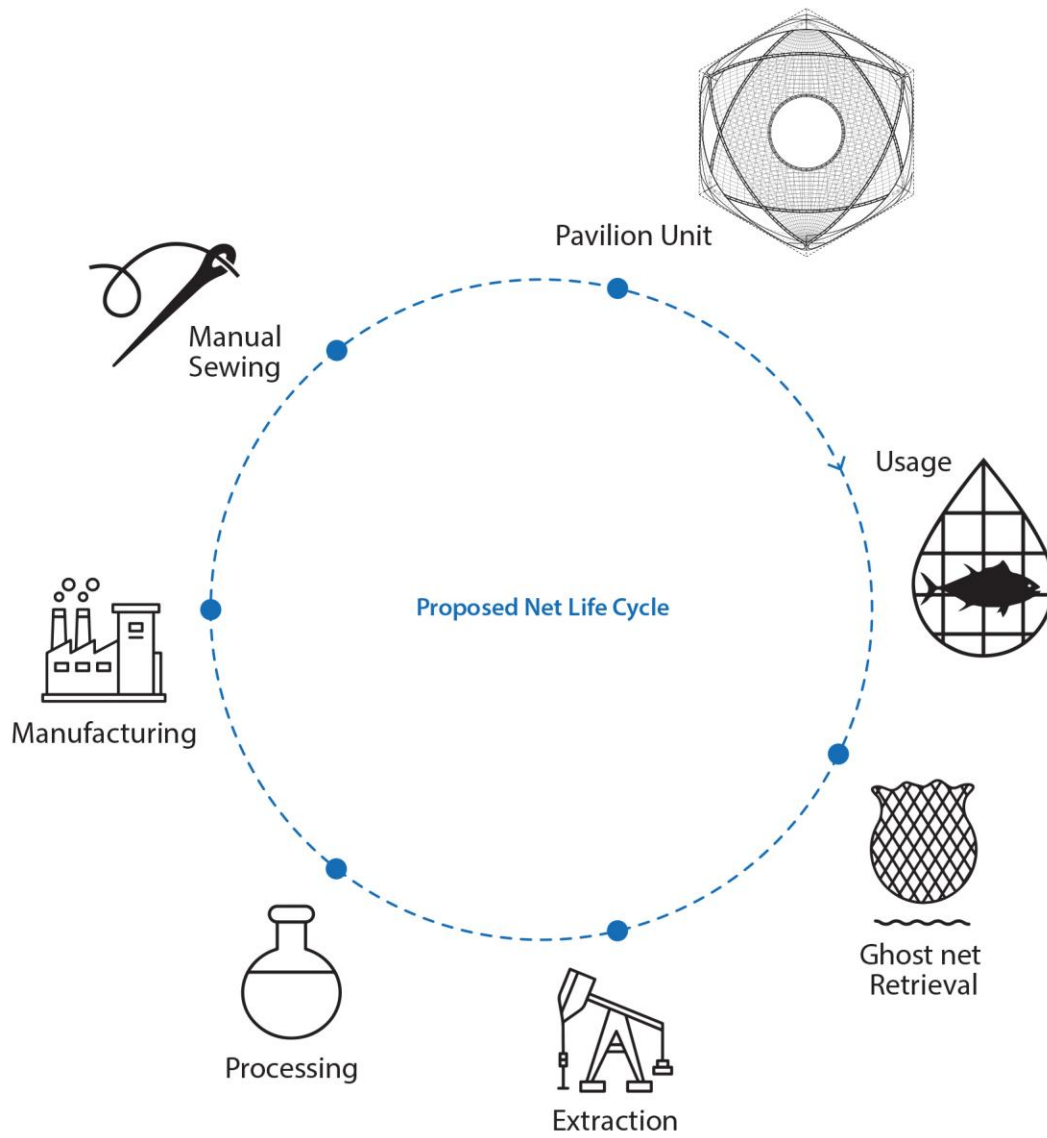




The Global Ghost Gear Initiative records reports of lost fishing gear. Statistics from April 1981 to October 2018 show 46,000 items of fishing gear, more than half of those nets have entered the ocean (Source: GGGI)



(Source: Global Ghost Gear Initiative)





Killdeer
1~2m

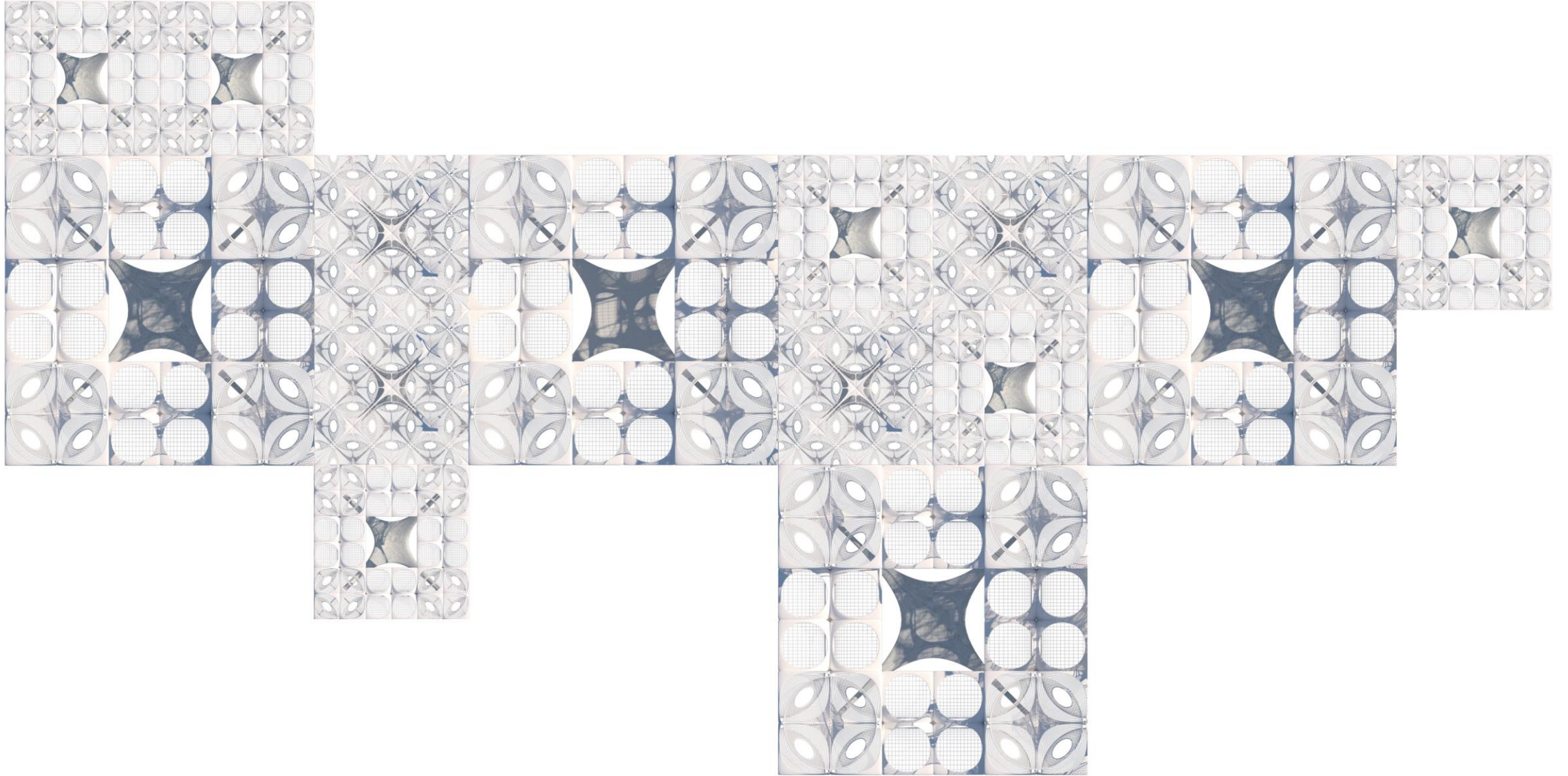


Barn swallow
2~3m



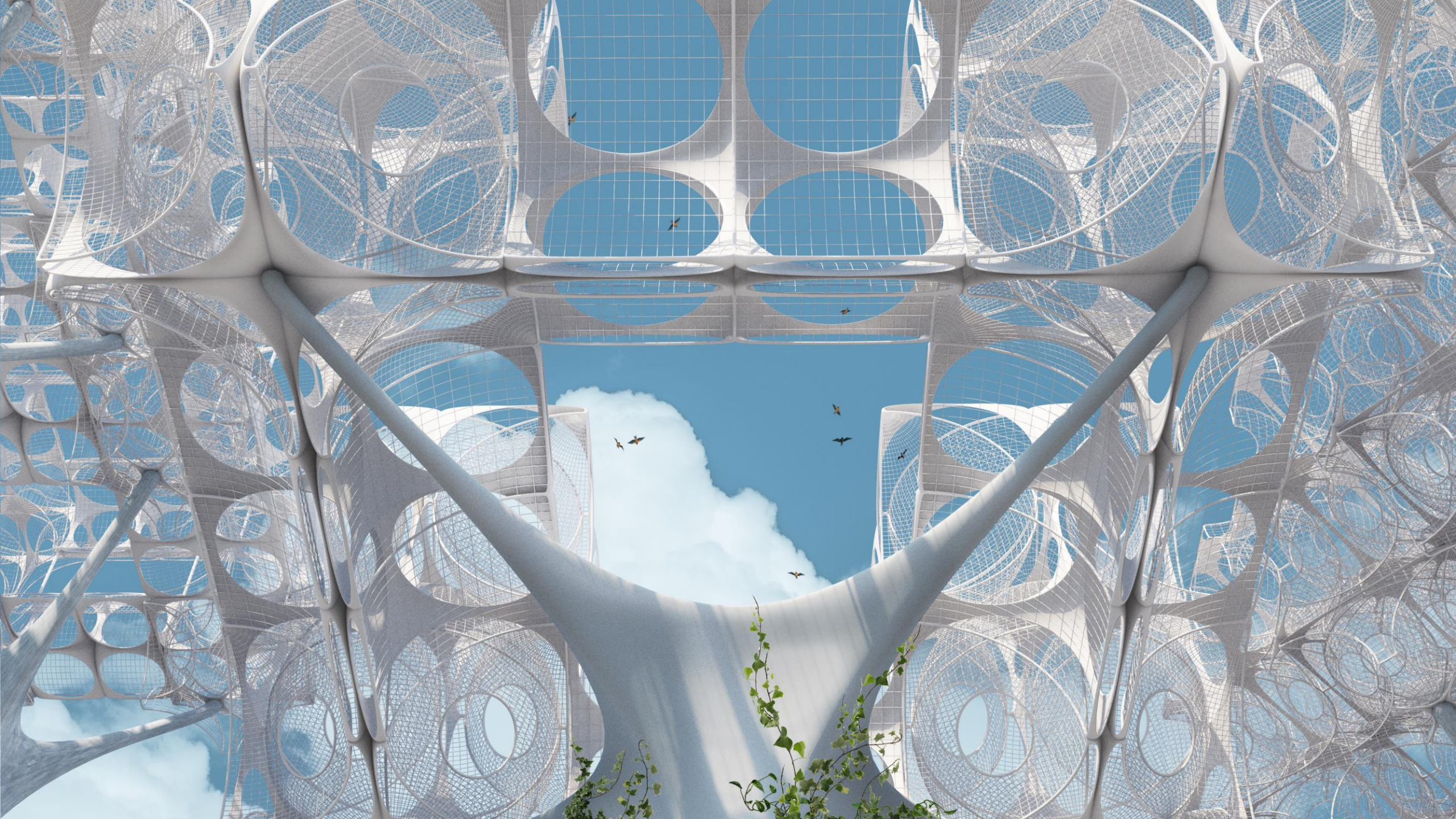
Yellow warbler
3~6m

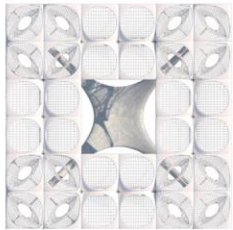
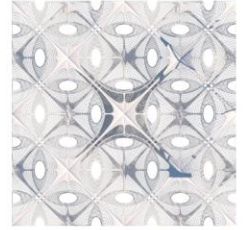
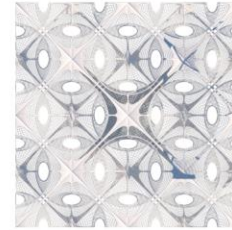
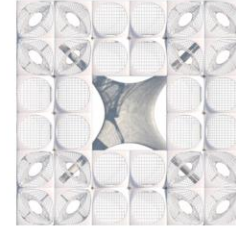
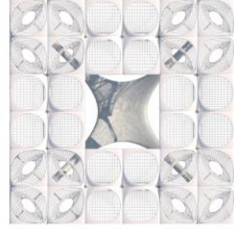
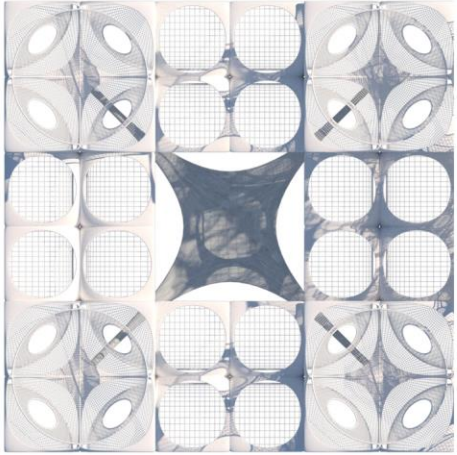




Expandable System

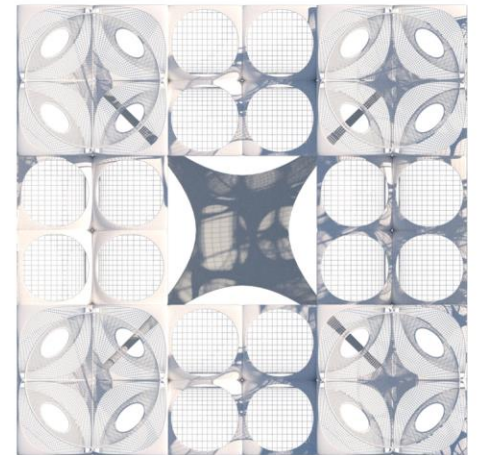






Disassembly in New York City

‘permanent artificial tree as nature tree’



Decline of House Sparrow



-From 1995 to 2016, House Sparrows declined by 7.5% and mean flock sizes declined by 22%.

-A lack of urban green space and nesting sites are threats.



Tree Removal and Stump Removal

-Dead trees reported on streets, parks, playgrounds or other public spaces will be inspected and, if appropriate, removed.

-6,695 stump that are scheduled for removal.
(NYC Parks, updated 2021. 7. 18)



Governors
Island



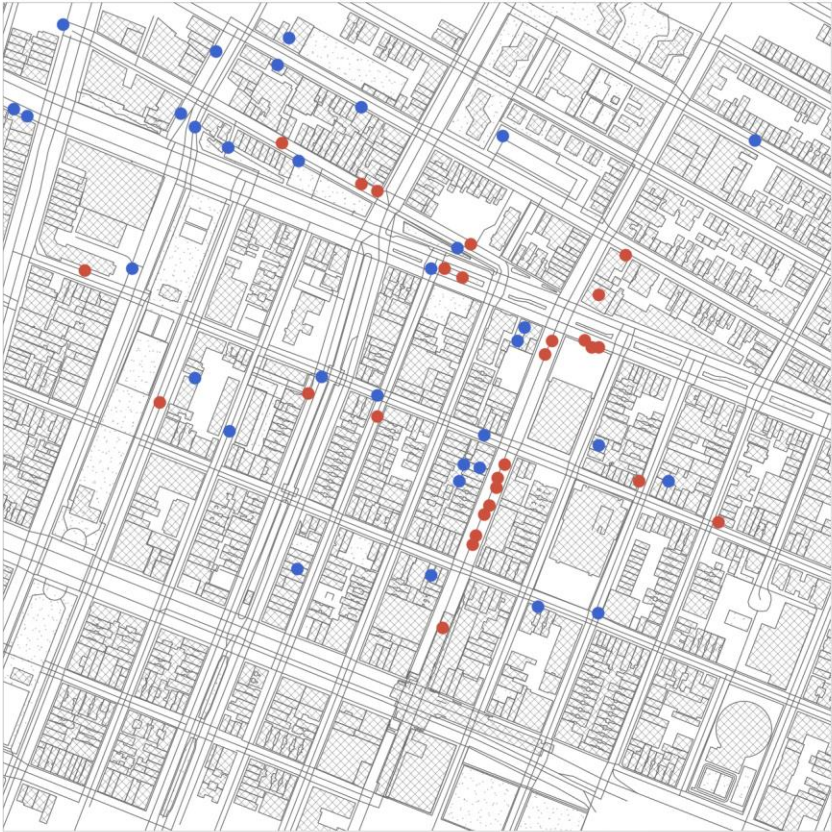
**Governors island 2021
OCCURRENCE**

- Pavilion assembly May1 - Aug 31, Every year
- Pavillion disassembly Sep 1 - Apr 31



**Lower Manhattan East 2021-
OCCURRENCE**

- Pavilion Re-assembly Year-round



**Lower Manhattan East 2022-
OCCURRENCE**

- Pavilion Re-assembly Year-round





