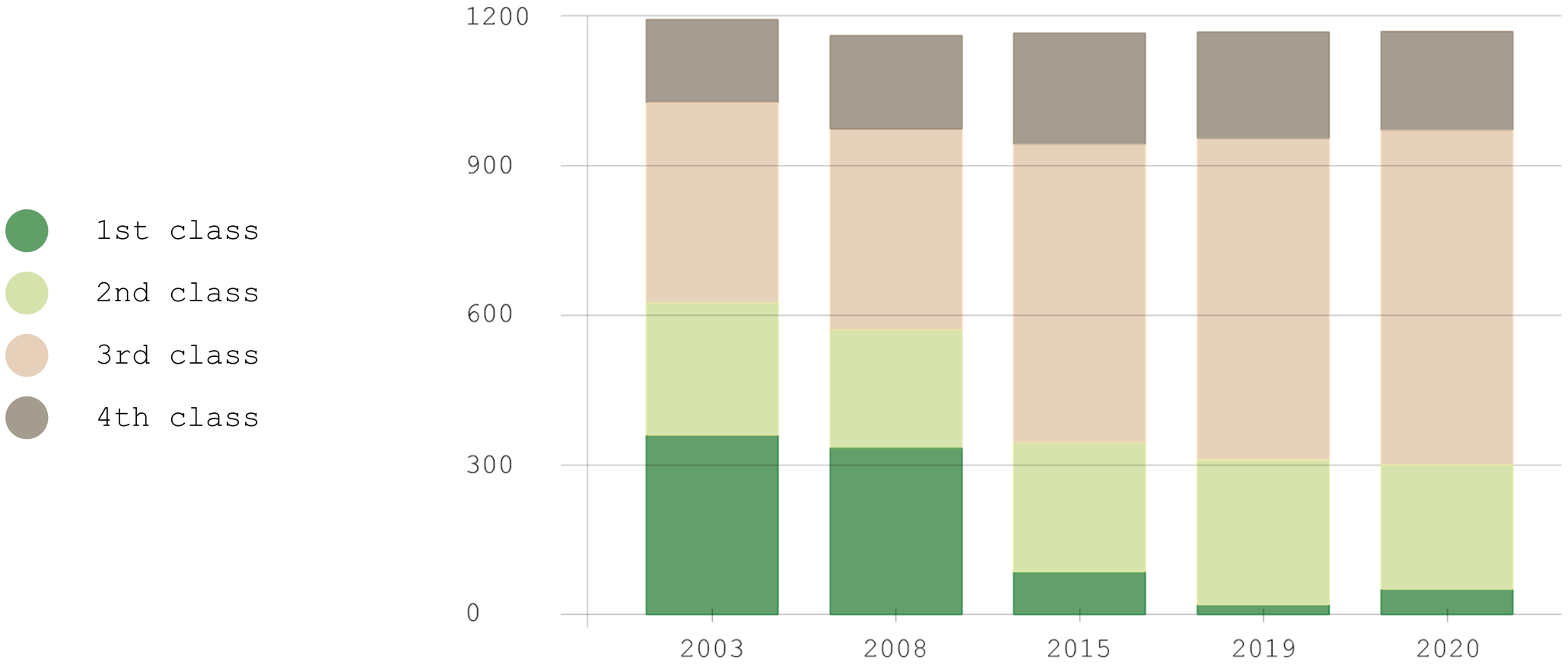
LIVING INFRASTRUCTURES

Destruction of natural reed beds in Lake Balaton

Quality distribution of reed between 2003 and 2020

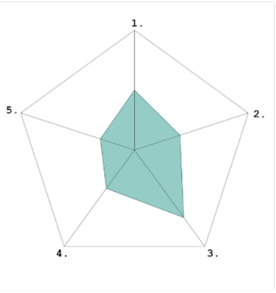
Source: https://www.hirbalaton.hu/folyamatos-a-balatonon-a-nadasok-minosegi-romlasa-tvkeszthely-hu/



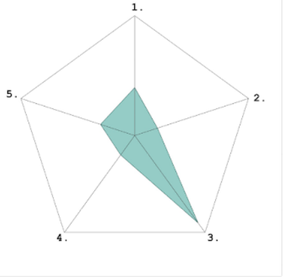
Location: *Tihany*

Design and evaluation of support geometries for our NbS

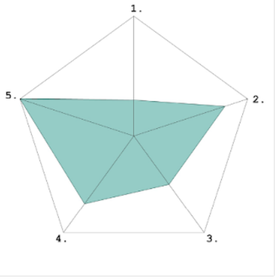
Name: A(1,2)
Weight(kg):8.3
Size (mm)(x,y,z):
400x346x373
Function:
1. Light transmission
2. Rhisome support
3. Wave protection
4. Density
5. Collect sediment



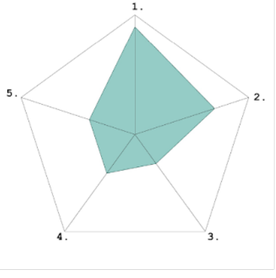
Name: B(1,2)
Weight(kg):14.9
Size (mm)(x,y,z):
400x345x375
Function:
1. Light transmission
2. Rhisome support
3. Wave protection
4. Density
5. Collect sediment



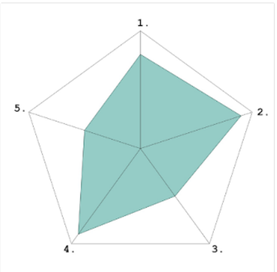
Name: C(1,2)
Weight(kg):15.81
Size (mm)(x,y,z):
415x393x419
Function:
1. Light transmission
2. Rhisome support
3. Wave protection
4. Density
5. Collect sediment

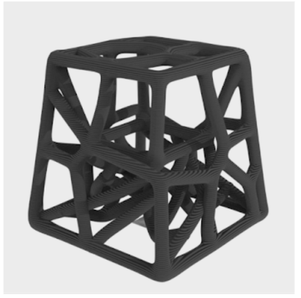


Name: D(1,2)
Weight(kg): 18.23
Size (mm)(x,y,z):
431x431x427
Function:
1. Light transmission
2. Rhisome support
3. Wave protection
4. Density
5. Collect sediment

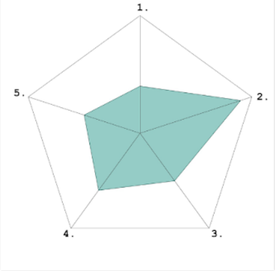


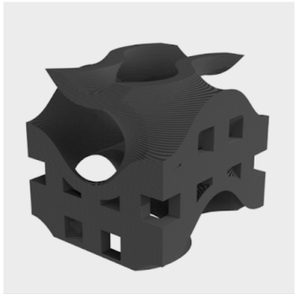
Name: E(1,2)
Weight(kg):27.85
Size (mm)(x,y,z):
433x433x430
Function:
1. Light transmission
2. Rhisome support
3. Wave protection
4. Density
5. Collect sediment



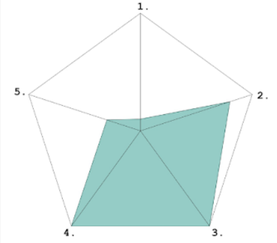


Name: F(1,2)
Weight(kg):22.3
Size (mm)(x,y,z):
437x437x430
Function:
1. Light transmission
2. Rhisome support
3. Wave protection
4. Density
5. Collect sediment

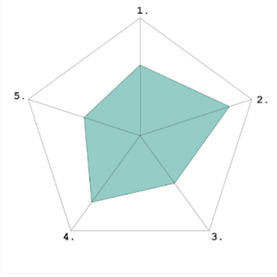




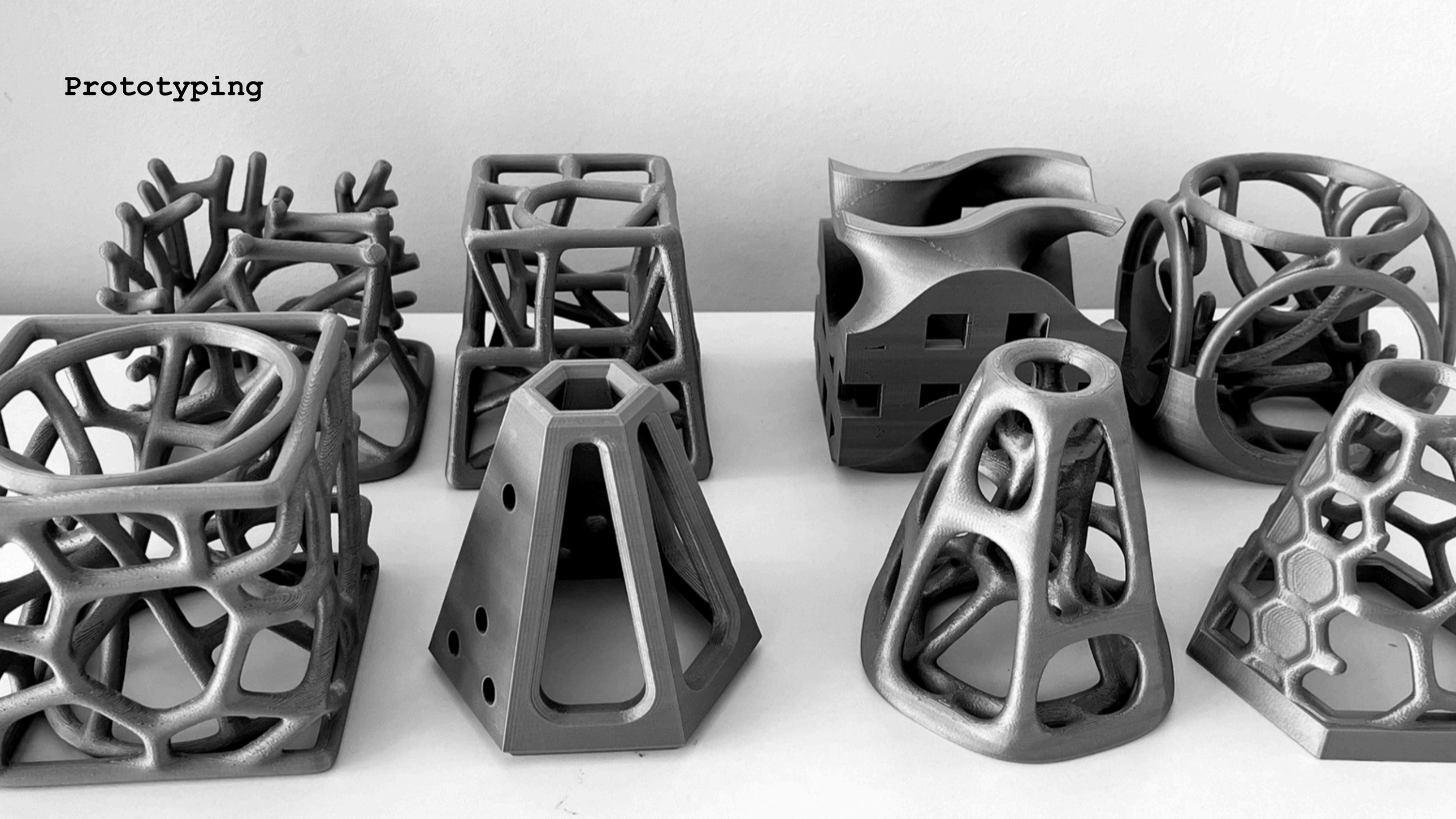
Name: G(1,2)
Weight(kg):47.6
Size (mm)(x,y,z):
400x400x400
Function:
1. Light transmission
2. Rhisome support
3. Wave protection
4. Density
5. Collect sediment



Name: H(1,2)
Weight(kg): 27.85
Size (mm)(x,y,z):
430x430x417
Function:
1. Light transmission
2. Rhisome support
3. Wave protection
4. Density
5. Collect sediment



Prototyping

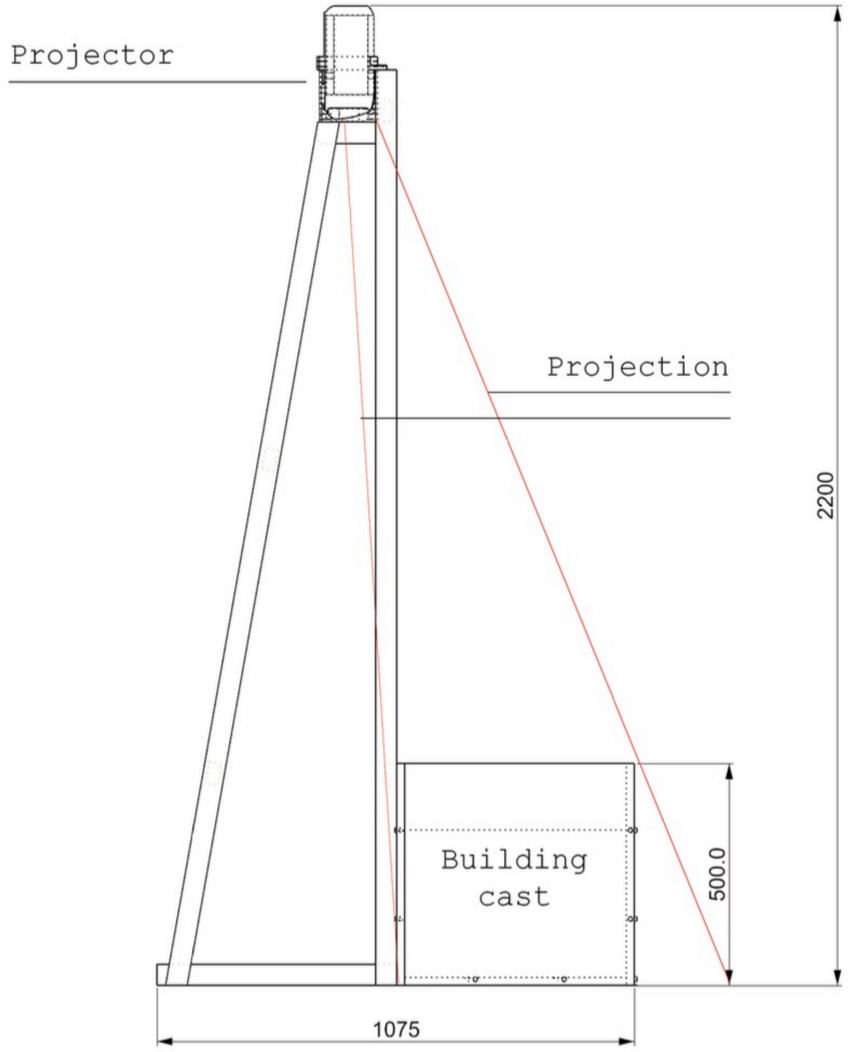


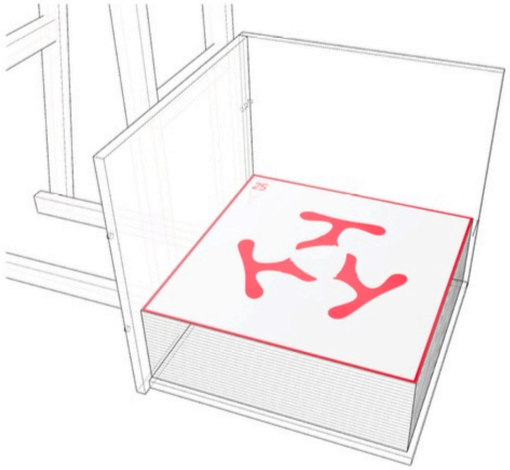
Testing the material

Developing the know-how

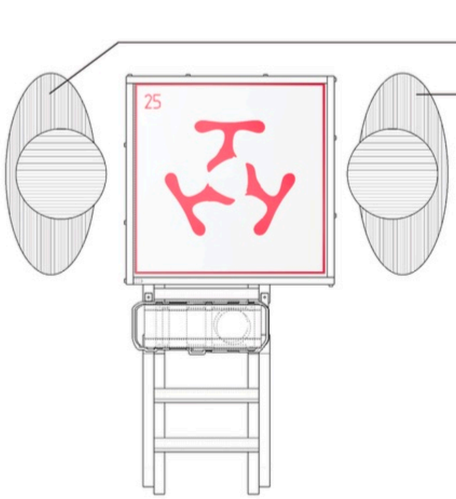
Proof of Concept

Planing for the scale-up processes





Example of a projected layer. Currently showing layer 25.



The alignment of the participants at the machine.

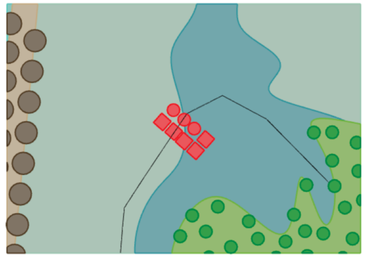
Manufacturing

Manufacturing

Manufacturing

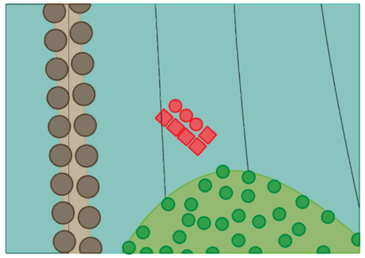
Installation of the geometries

1st test area

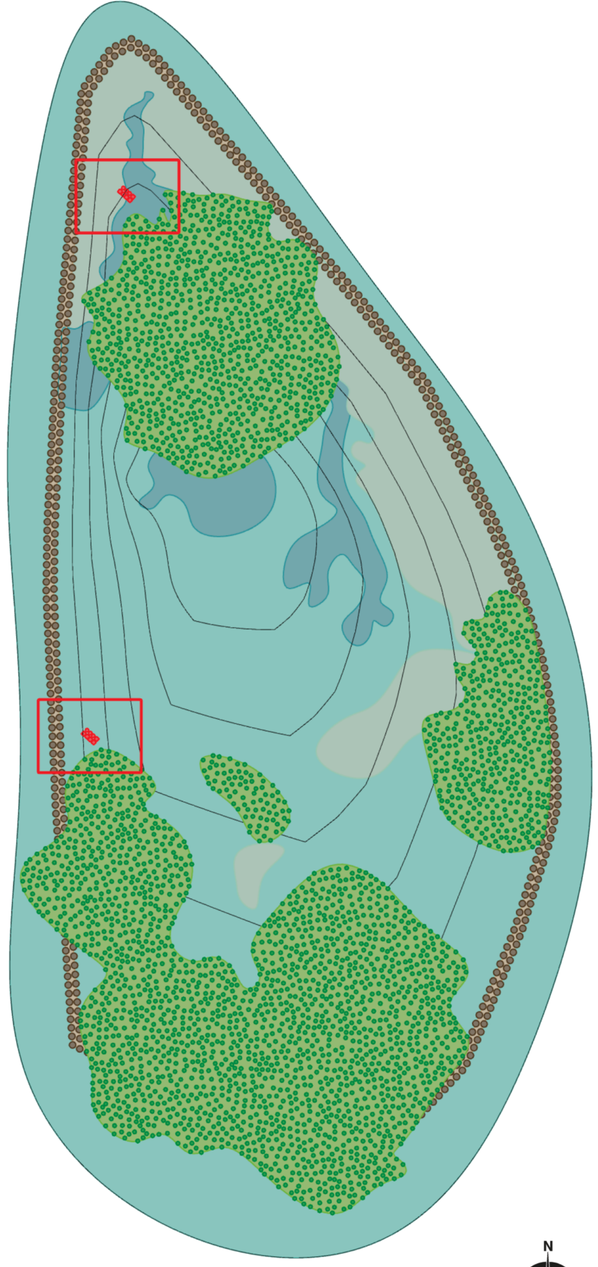


Order of the shapes from upper left corner:
A1,B1,C1,D1
E1,F1,G1,H1

2nd test area



Order of the shapes from upper left corner:
A2,B2,C2,D2
E2,F2,G2,H2



≤30cm
30-100cm
≥100 cm

N
E W
S

10m