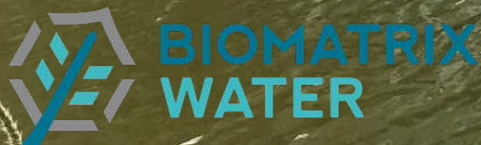




Bringing Water to Life

Ontwerp kades en oevers natuurinclusief, klimaatadaptief en beleefbaar

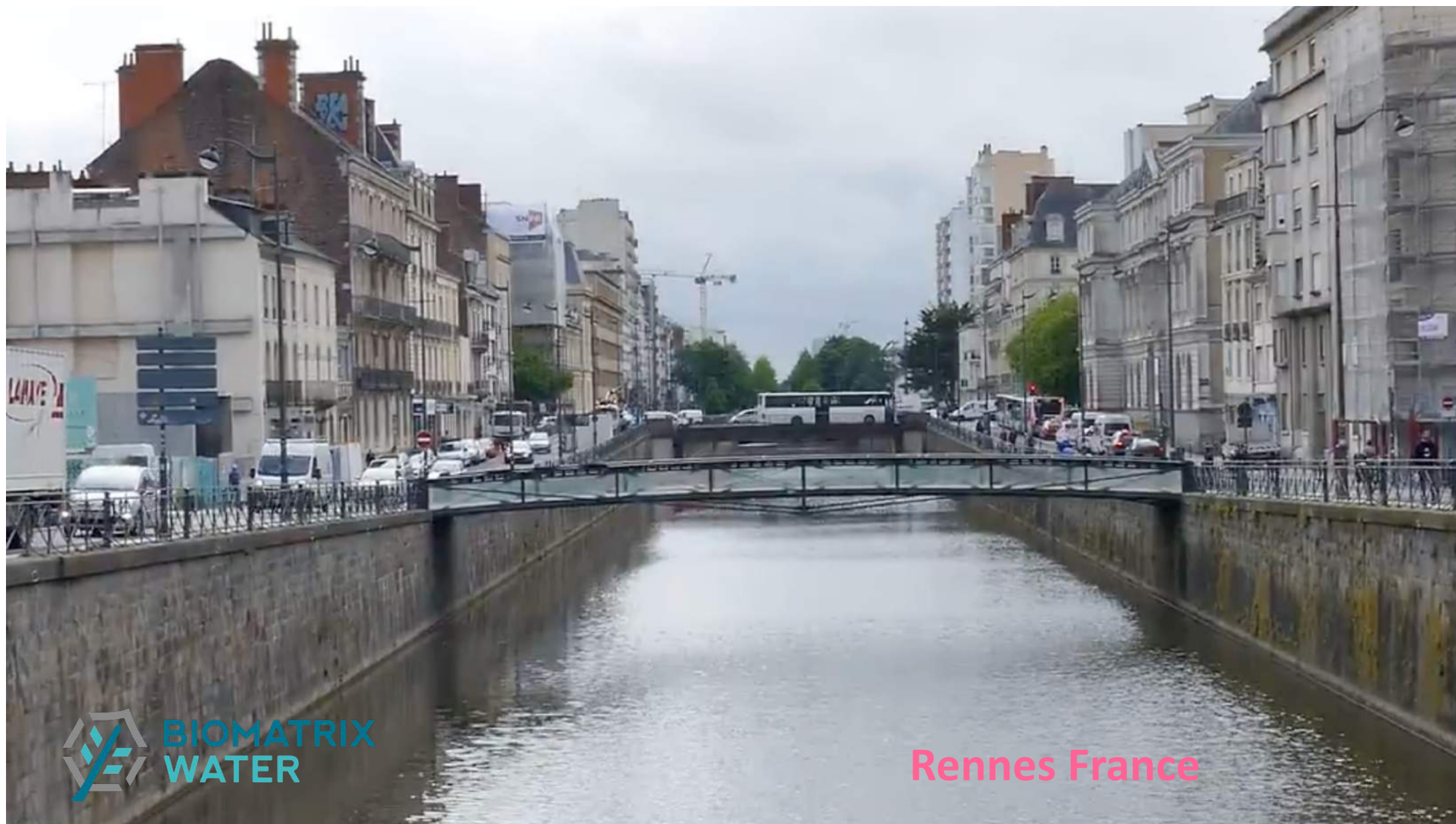
Amsterdam November 19th 2019





BIOMATRIX
WATER











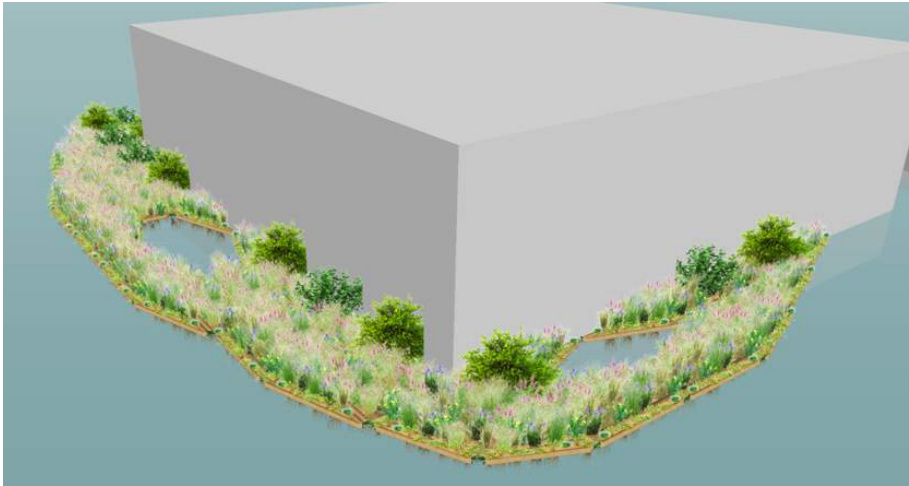
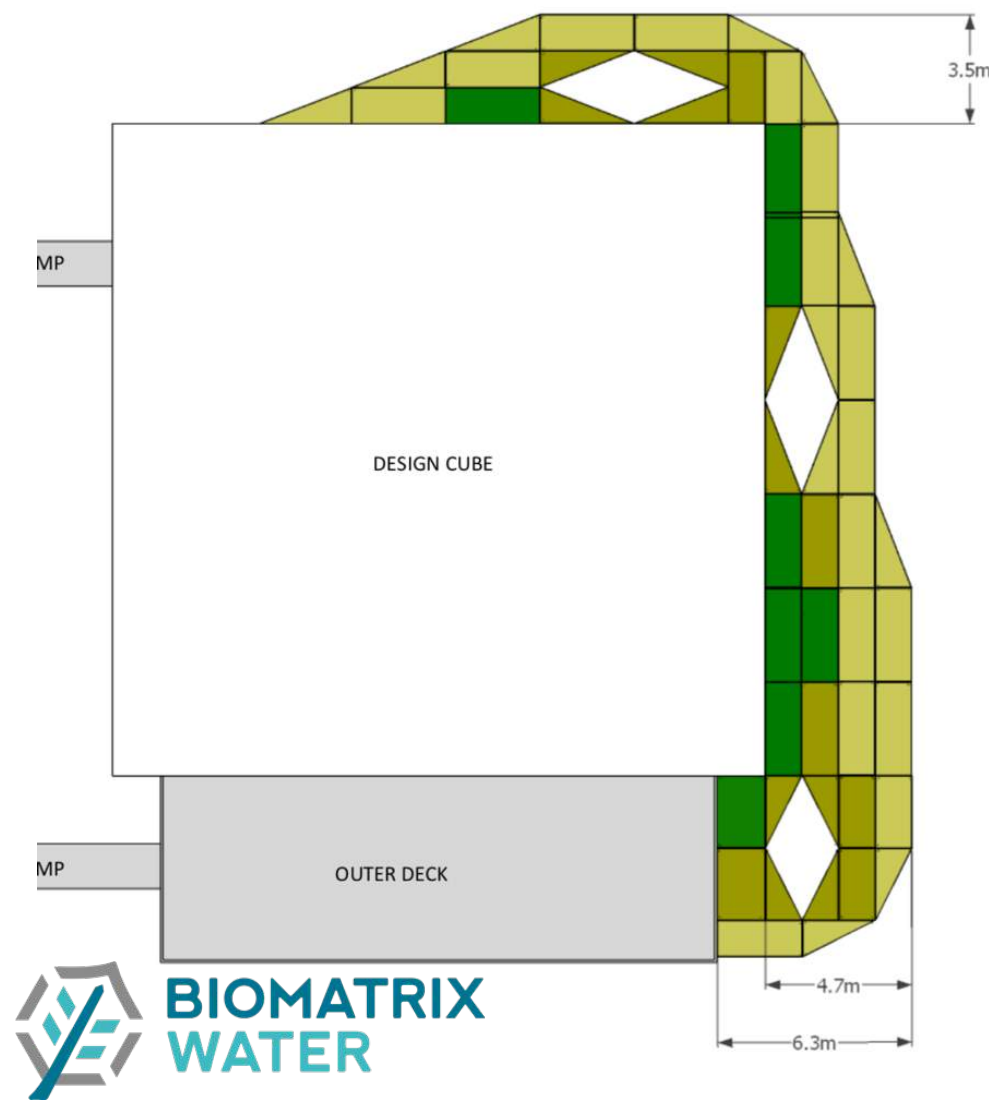




BIOMATRIX
WATER Samira Guillaumot



Design Cube London

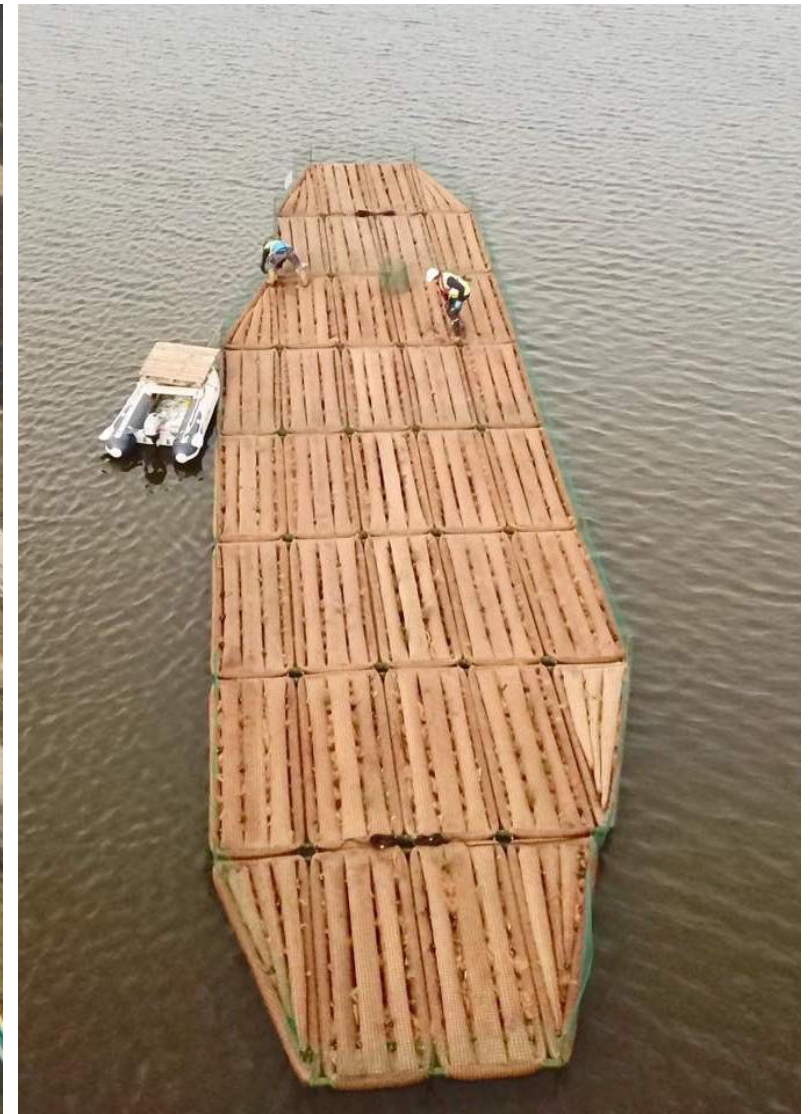




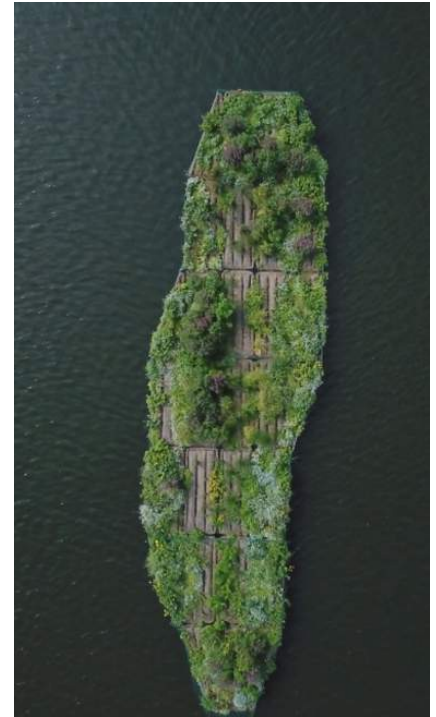
Design Cube London



Newcastle



Newcastle

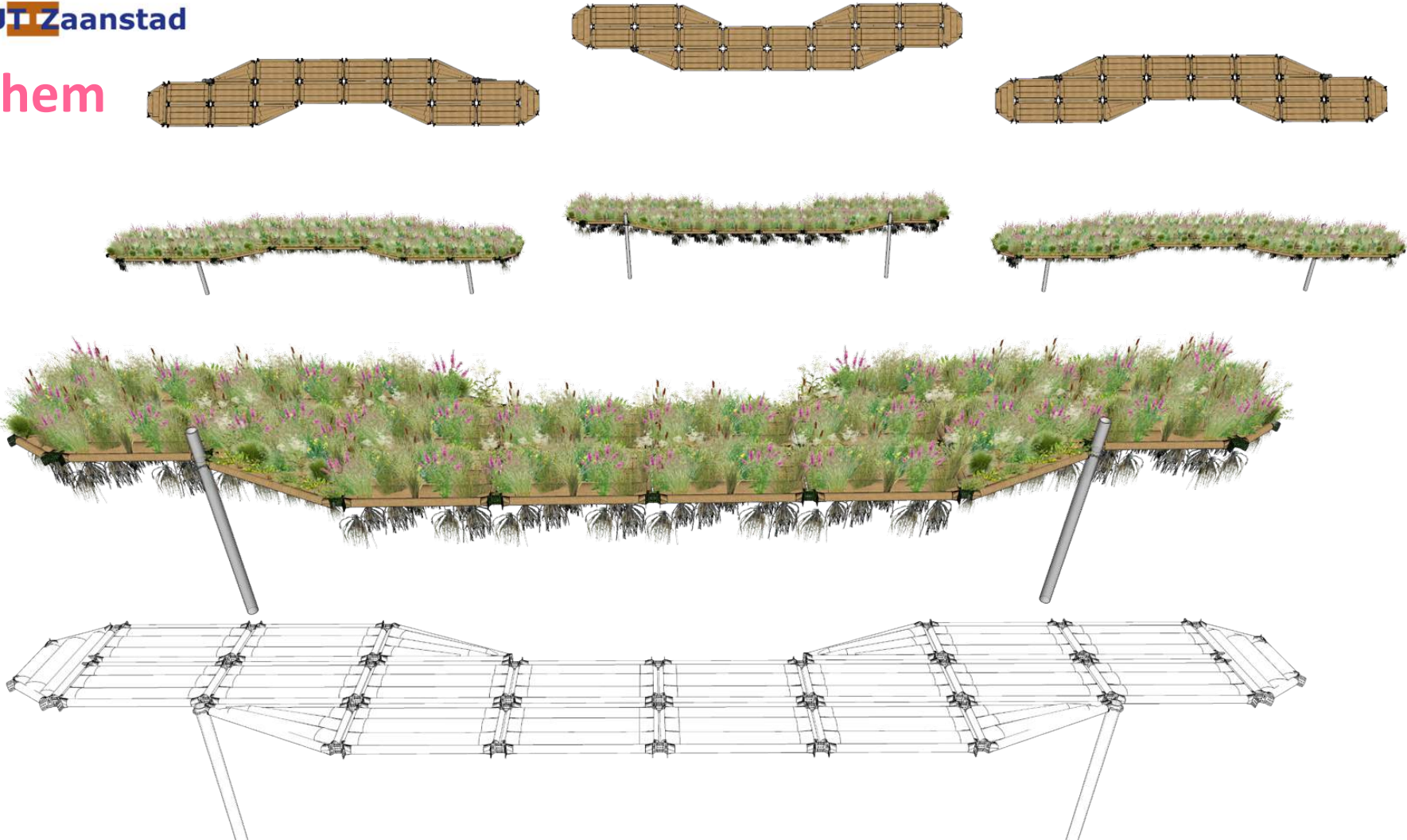


3 MONTHS GROWTH,

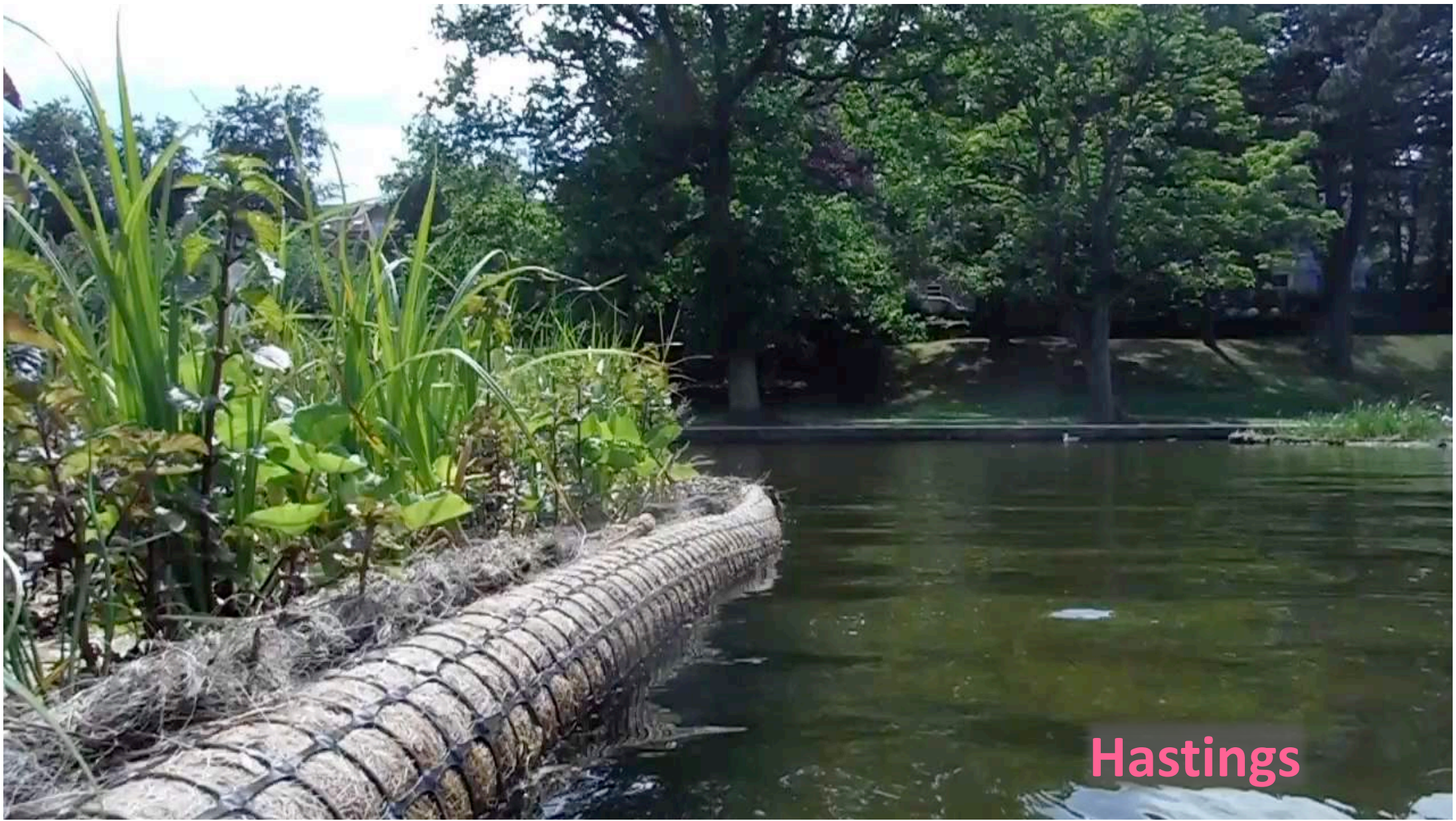


BIOMATRIX
WATER

Doetinchem



DESIGN NUMBER 577.2	SCALE NTS	Floating Modular Ecosystems	ISSUE DATE 03/09/19		BIOMATRIX WATER, Horizon Scotland, The Enterprise Park, Forres, Moray, Scotland IV36 2AB, +44(0) 1309 678 100 www.biomatrixwater.com	 BIOMATRIX WATER
LOCATION: Oude IJssel, NL			Drawn By JC			



Hastings

BIOMATRIX WATER

INCREASED CONTACT WITH NATURE

Studies are proving time and time again that mental health is linked to contact with nature. The floating islands turn hard edged waterfront into floating parks, offering people more contact with different species



IMPROVED WATER QUALITY

A micro-wilderness of submerged roots creates an ideal habitat for millions of microorganisms, which use algae, carbon and excess nutrients in the water as a food source, purifying the water.



A SAFE HAVEN FOR BIRDS

Specially tailored platforms provide a refuge for birds safe from disturbance. A mix of habitat types are available for specific species.



STRONGER FISH STOCKS

Materials are carefully selected for recycled content and recyclability. Only non-toxic materials are used. Once grown the system is typically 60% living biomass and 30% marine engineering materials.



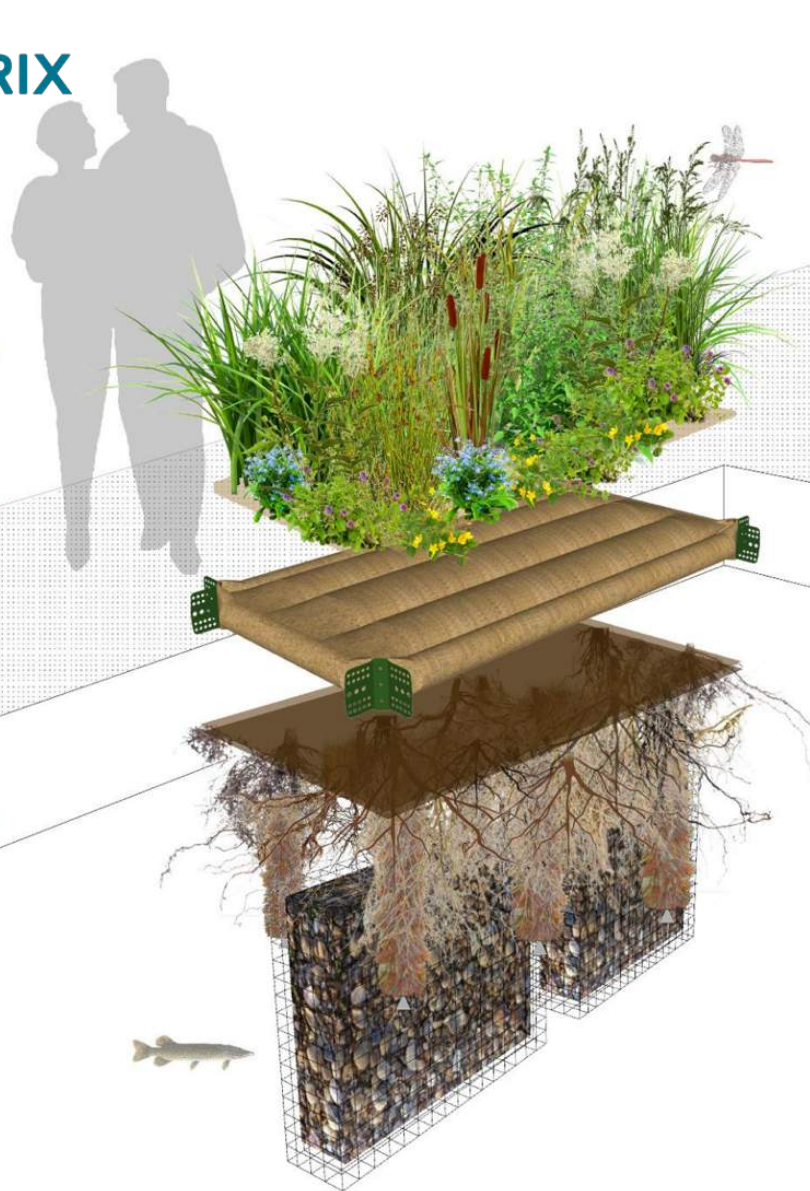
STRONGER FISH STOCKS

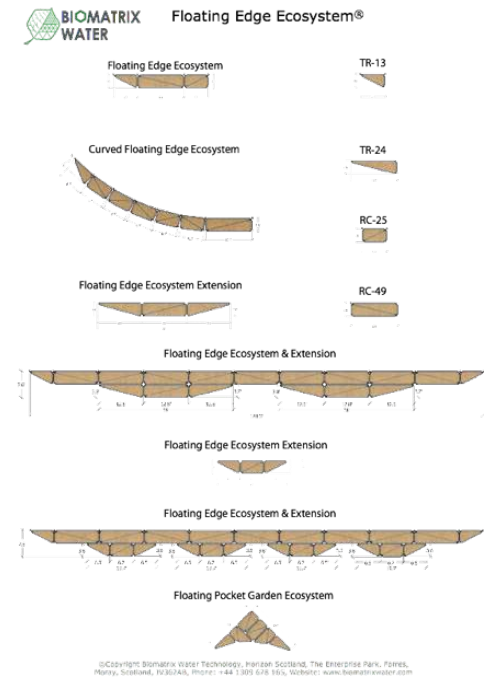
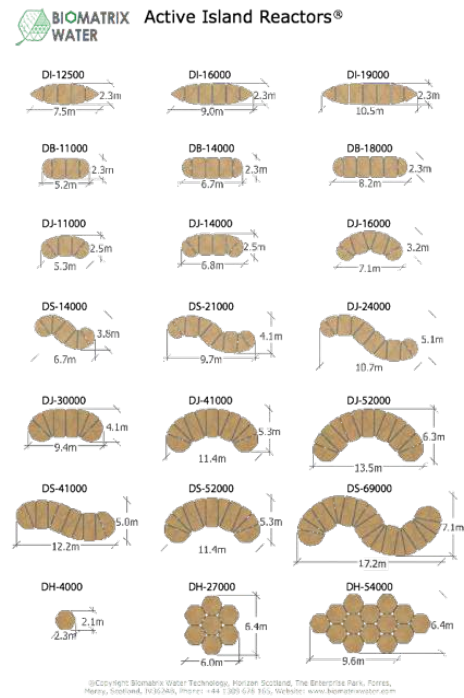
A subsurface forest of roots and shelter of shells provides shelter for fish and ideal feeding grounds, improving fish stocks.



HABITAT PROVISION

Caring for nature at the smallest level might initially yield invisible effects but soon we will be growing our food in public spaces and inviting many more species into our city.





Tested & through bolted construction.

Horizontal Tensile Strength

2D

2.5 tonne

3D

2.5 tonne

4D

3.5 tonne



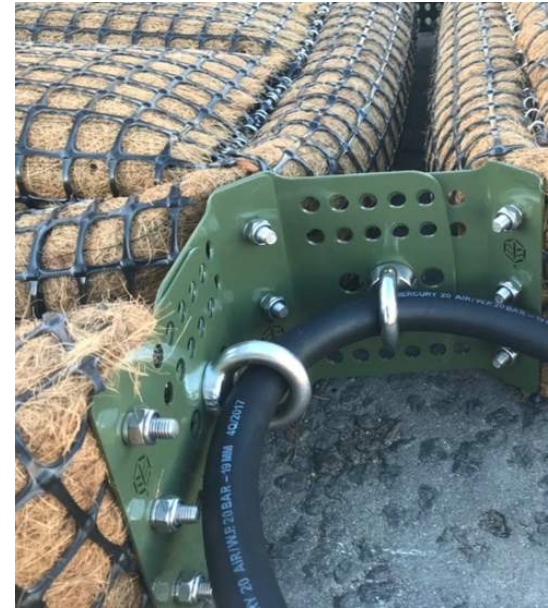
		1.5mm flange, bolted in 4 places	1	02/11/17	4.09 tonne (horizontal tensile test)
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		2mm flange, bolted in 4 places	1	02/11/17	4.79 tonne (horizontal tensile test)
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		1.2m x 0.6m finished triple bolted 'new style' triangle	1	02/11/17	4 tonne (horizontal tensile test) Boom torn at 2 securing hole (3 rd securing bolt remained connected)
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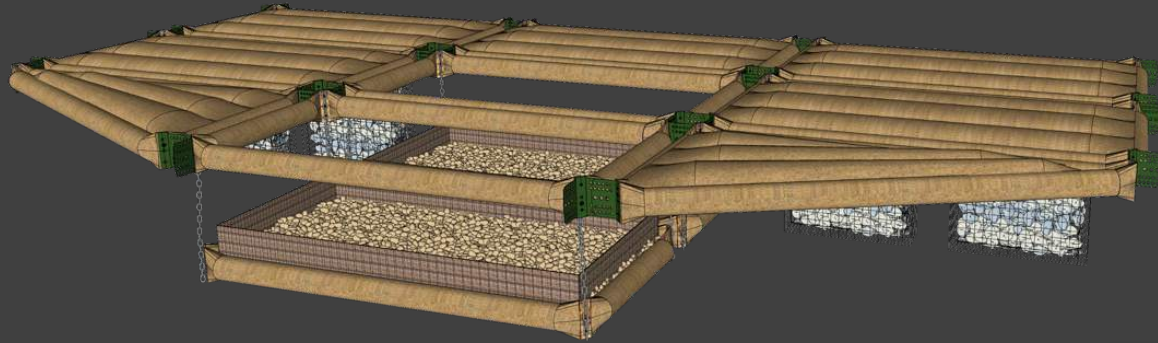
		1.2m x 0.6m finished 'old style'	1	02/11/17	2.8 tonne (horizontal tensile test) Boom torn at 2 securing hole
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Biomatrix Floating
Ecosystems
DURABILITY
TRUCK TEST



Infrastructure Hardware

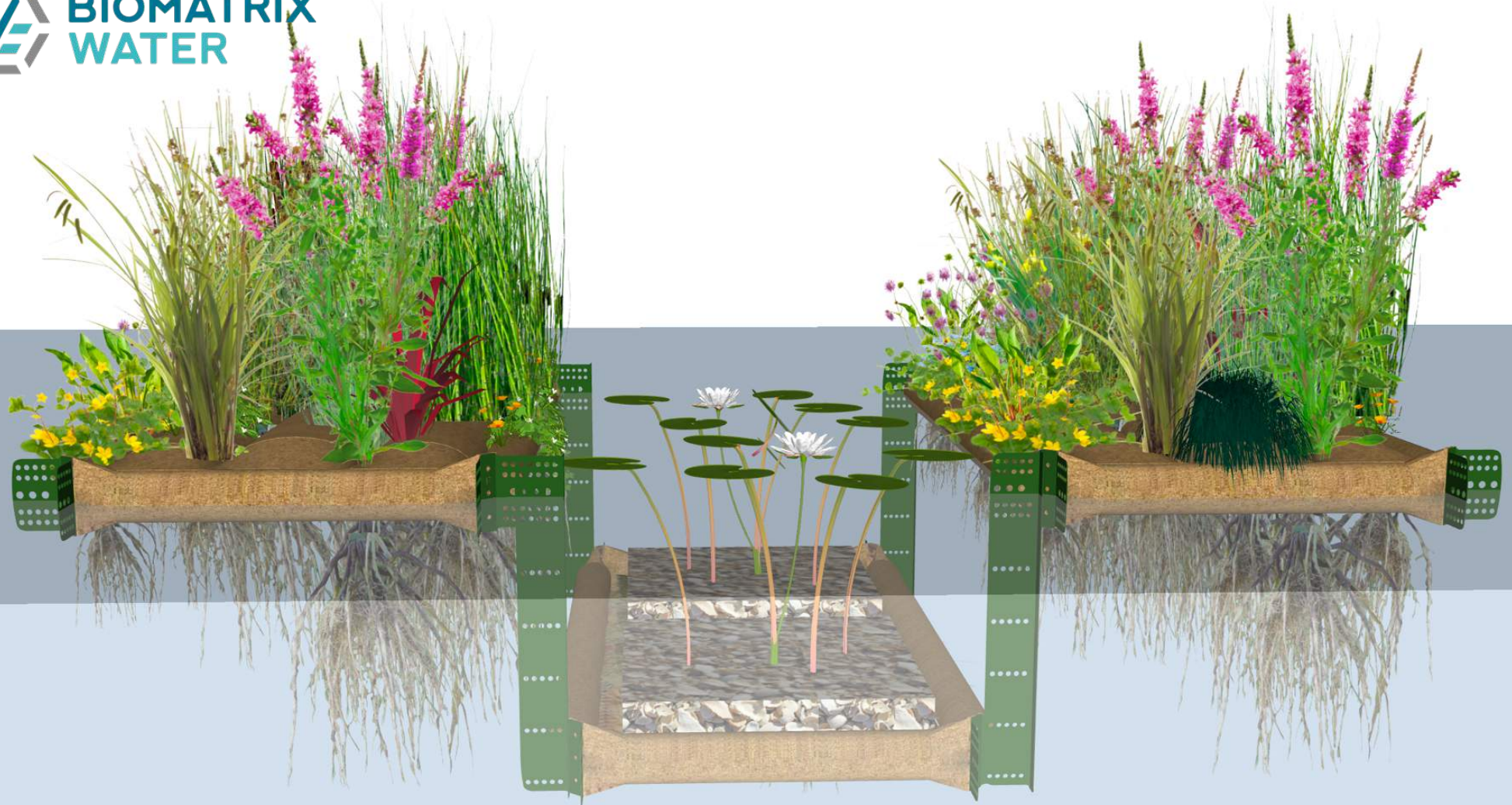
- High buoyancy to support trees,
- Through bolted steel anchoring and connection components
- Stainless steel bird grazing protection fencing
- Integrated hoist points and attachments for accessories, aeration and solar gear, walkways, etc.



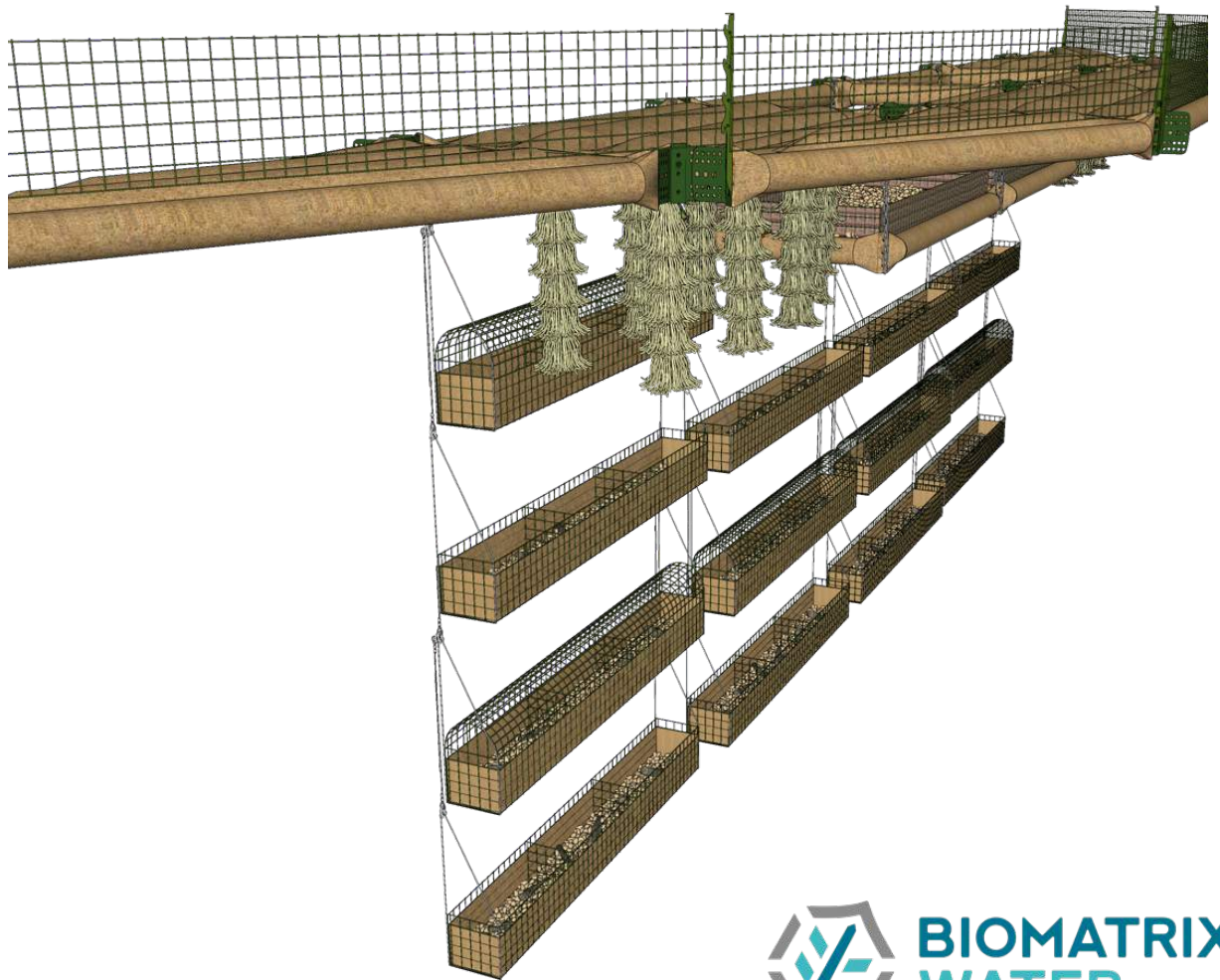
MULTI -LEVEL HABITATS

1. Floating Ecosystem
2. Submerged Gravel Ecosystems,
3. Ecocean Biohut











DESIGN NUMBER
S67.1

SCALE
N/A

LOCATION: London, UK

Modular Ecosystems Typologies
For info only

ISSUE DATE
19/08/19

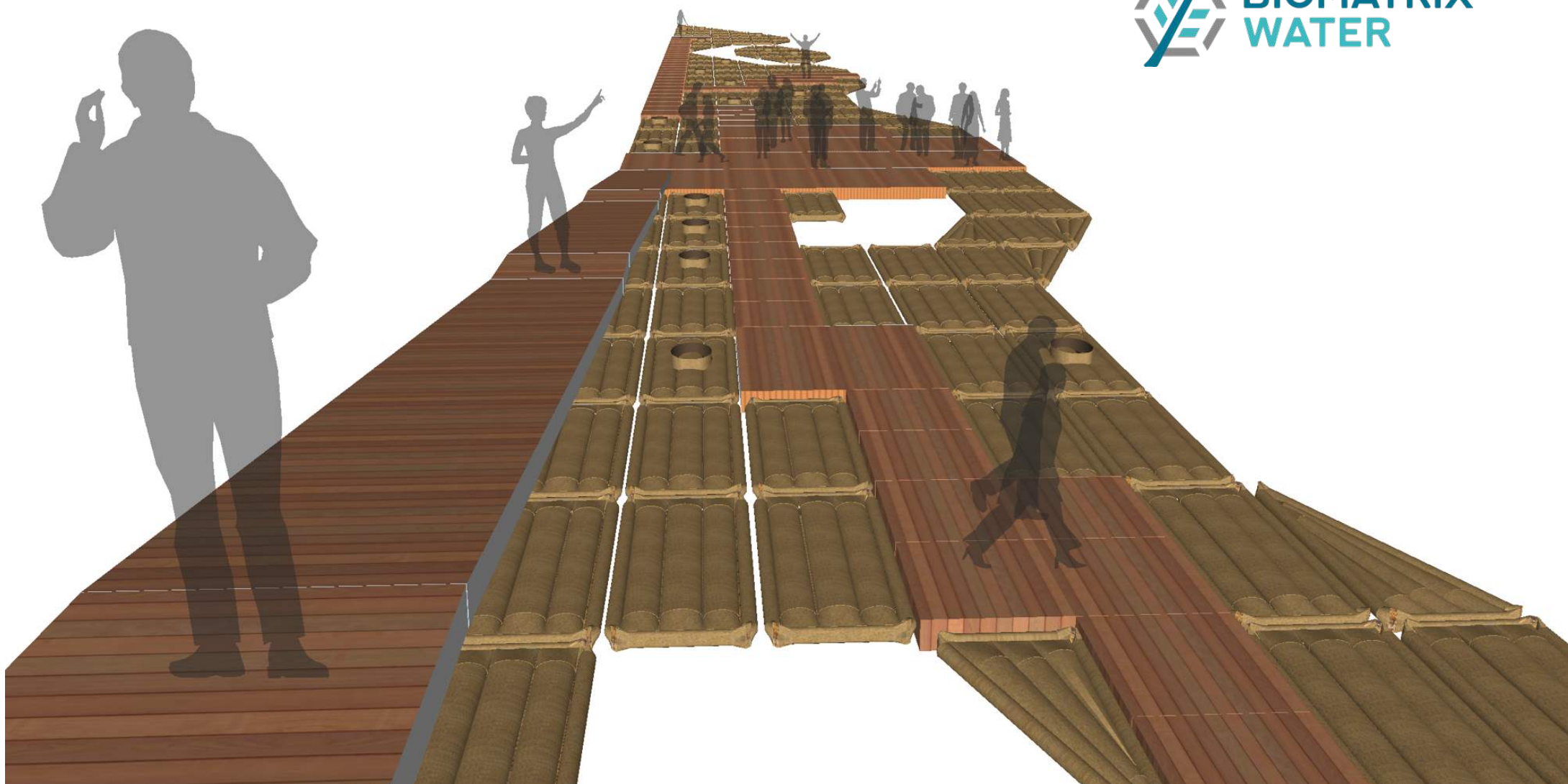
Drawn By
JC

BIOMATRIX WATER, Horizon Scotland,
The Enterprise Park, Forres, Moray,
Scotland IV36 2AB,
+44(0) 1309 678 100
www.biomatrixwater.com

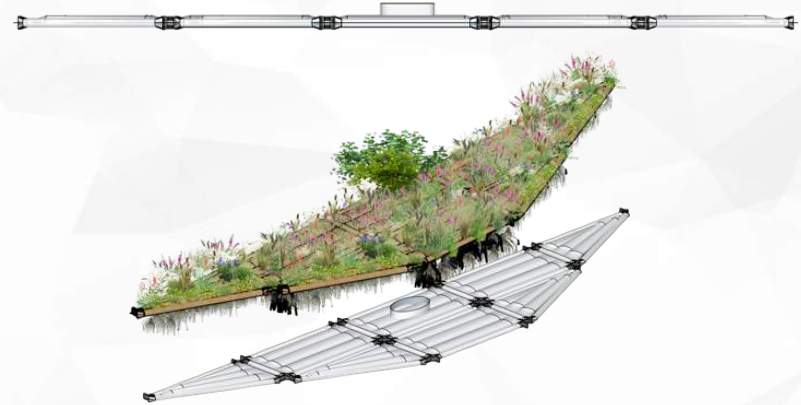


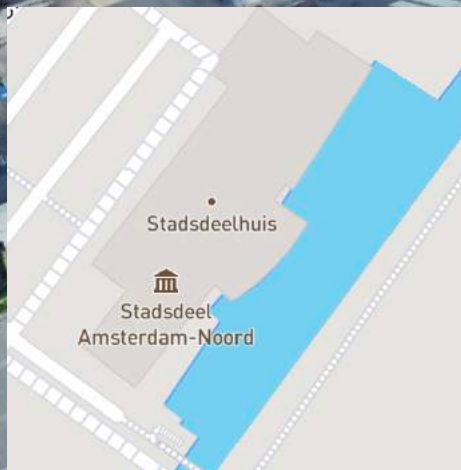
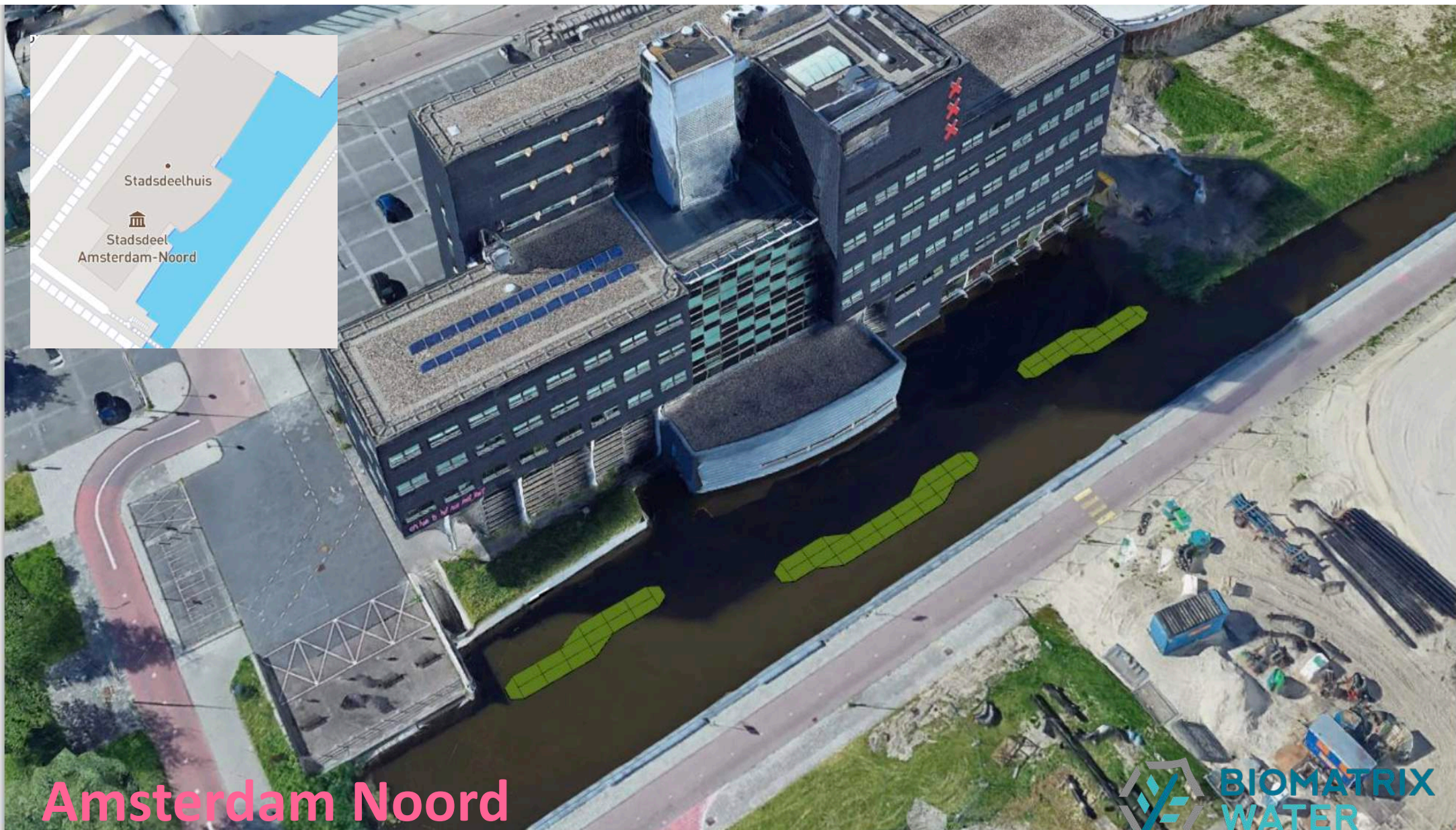


Reference Images



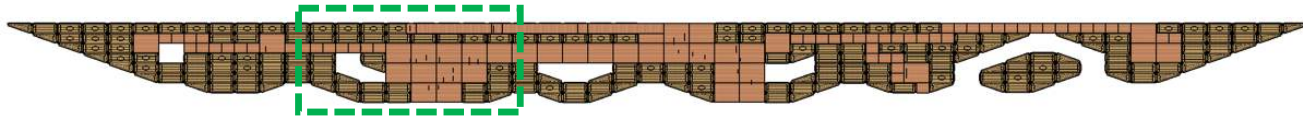
HAVENHOUT Zaanstad
Drijvende Steigers BV





Amsterdam Noord





The Floating Class Room





**Bob Ronday
Architects Amsterdam
& Biomatrix Water**

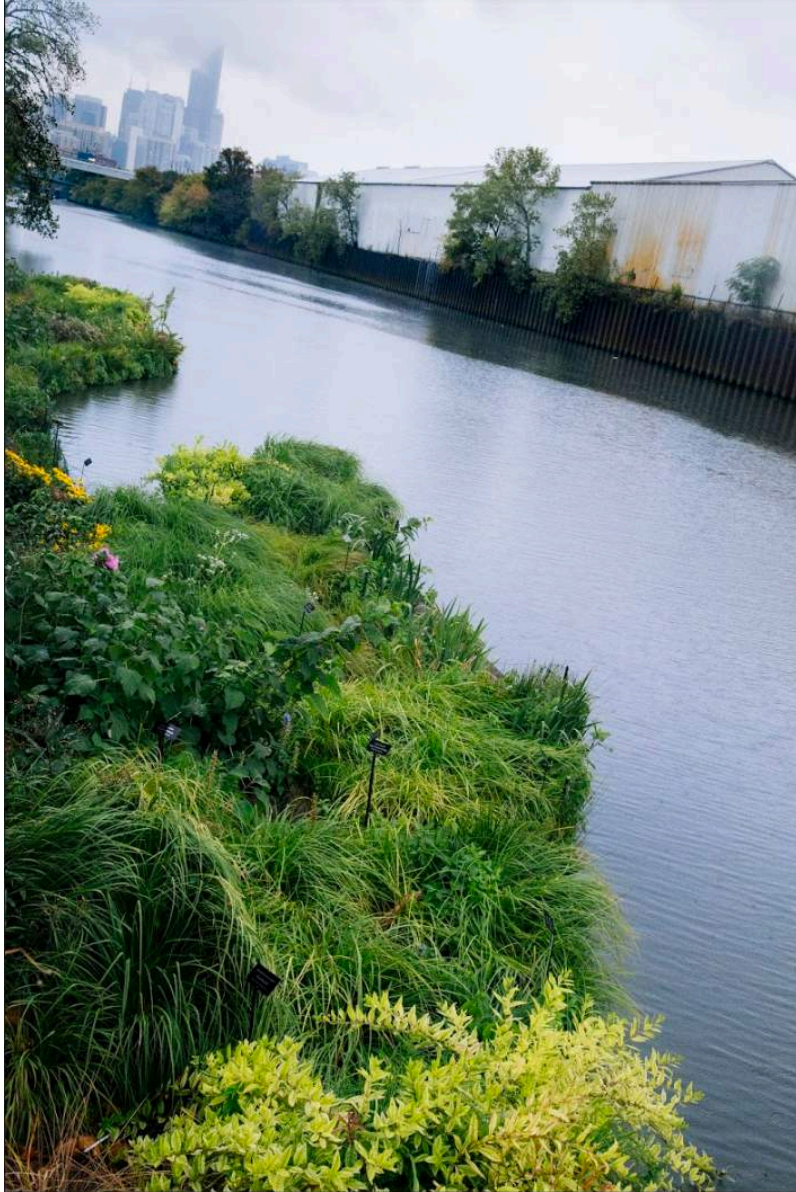








Chicago River



Reference photo is not for sale. Courtesy of the University of Chicago.

Chicago

Chicago's Next Big Vision...

THE WILD MILE

PHASE 1 | 2017

PHASE 2 | 2018

PHASE 3 | 2020



BIOMATRIX
WATER



URBAN
RIVERS



THANK YOU,

BIOMATRIX WATER

Ecosystem-Infrastructure

Horizon Scotland, The Enterprise Park

Forres, Moray, Scotland, IV36 2AB

Front Desk: +44(0)1309 678100

galen@biomatrixwater.com



www.biomatrixwater.com