THE UNIVERSITY OF SYDNEY

FLOATING FORESHORES

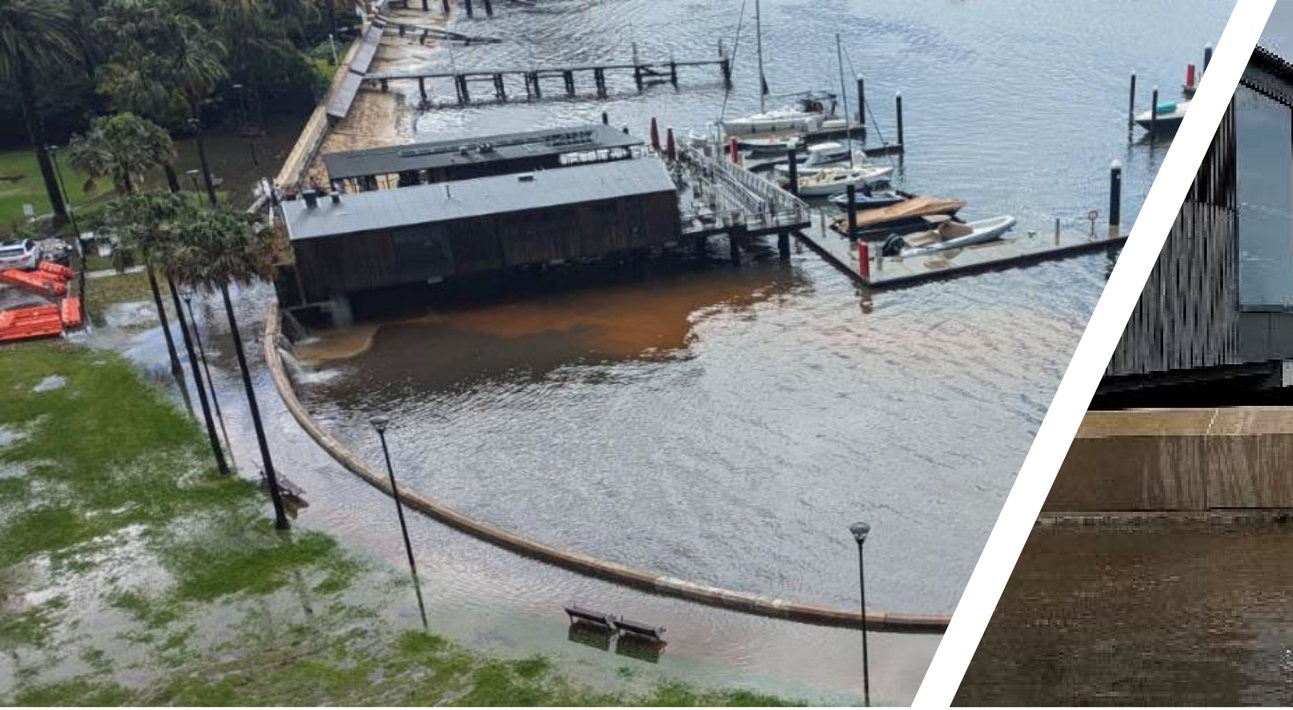


Transforming Sydney Harbour's maritime infrastructure to mitigate climate change while restoring critical marine ecosystems through innovative Nature-based Solutions.

LIVING MARINE INFRASTRUCTURE

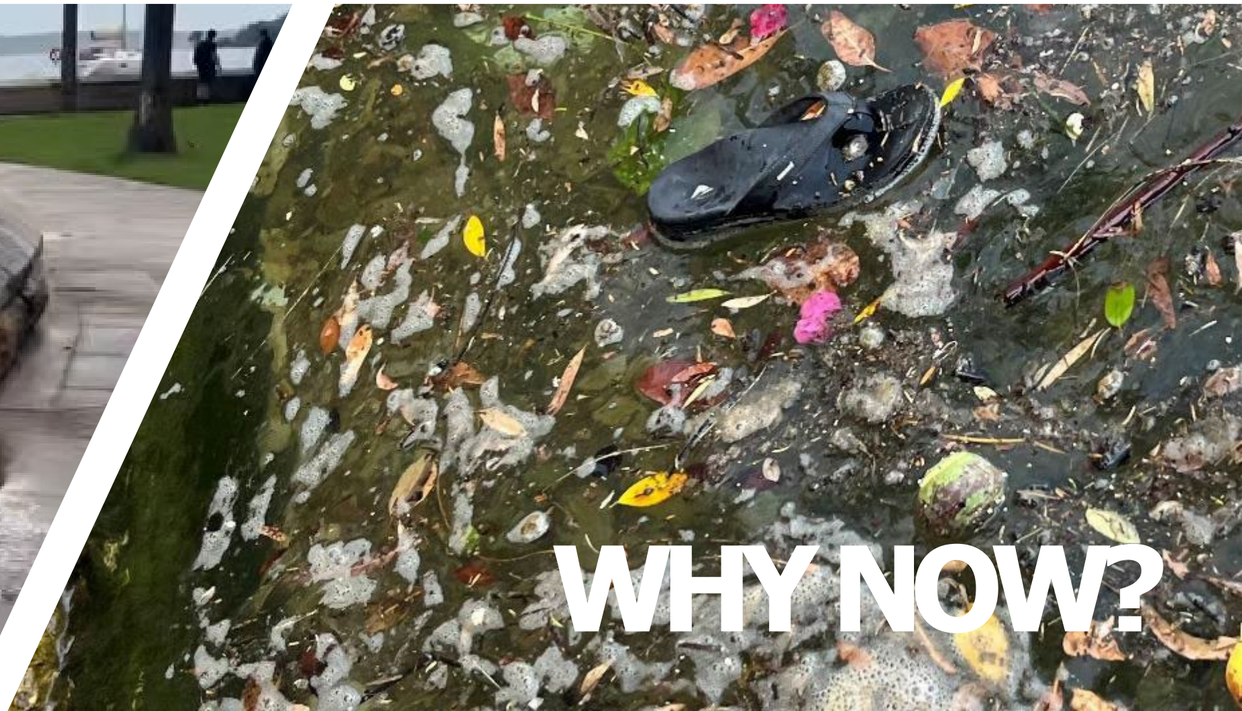
Modular offshore habitats that reduce wave energy, restore the intertidal edge, and protect urban foreshores.

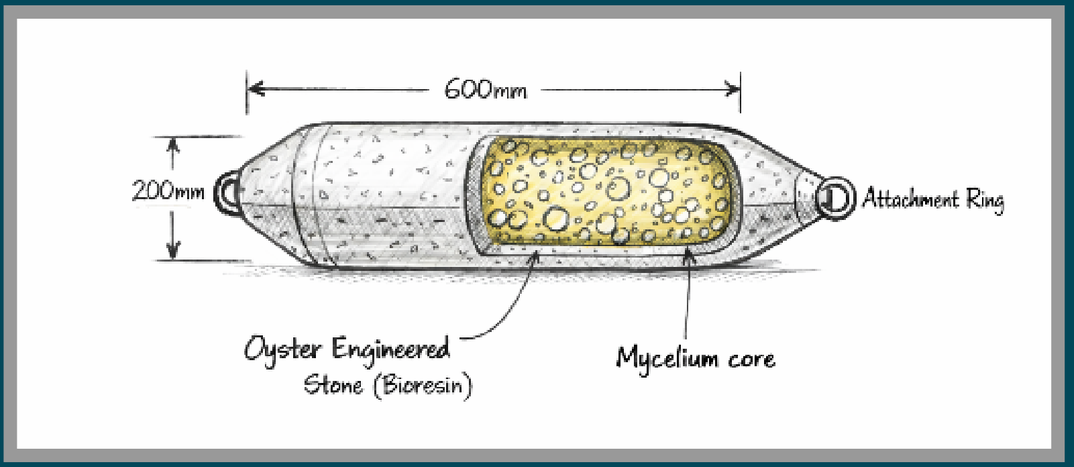




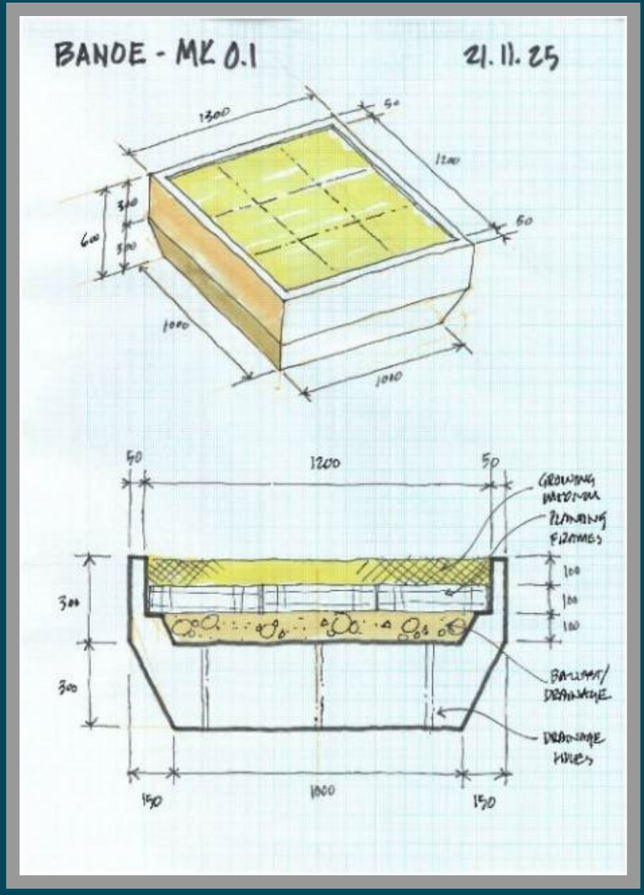

WHY HERE?




WHY NOW?



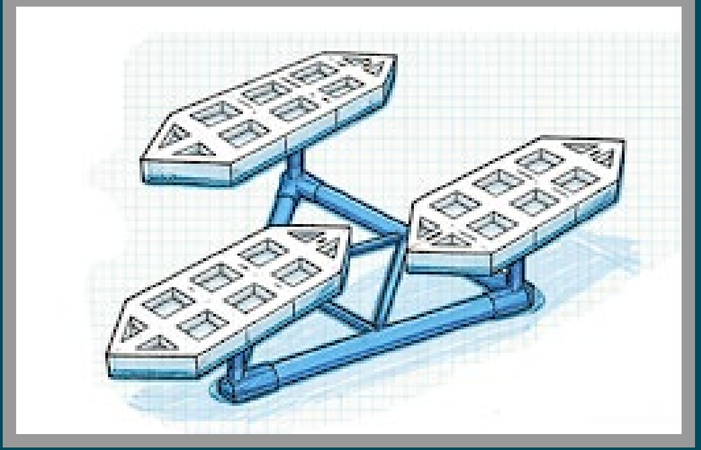




A PROTOTYPE FOR PLASTIC FREE MARINE INFRASTRUCTURE







FORMED BY LIVING SYSTEMS

Grown, not built.















INSTITUTIONALLY ANCHORED, COMMUNITY CO-DESIGNED

WEEK	STARTING	ACTIVITY STREAM 1 - BUOY	ACTIVITY STREAM 2 - BANOE
1	Feb 2nd		
2	Feb 9th	Design Charrette 5	
3	Feb 16th		
4	Feb 23rd	Course Content Charrette	
5	Mar 2nd		
6	Mar 9th	S1 W1 - Orientation & intro to mycelium	
7	Mar 16th	S1 W2 - Raw materials & circularity	
8	Mar 23rd	S1 W3 - Moulding and Forming	
9	Mar 30th	S1 W4 - Classroom - Intro to NbS	S2 W1 - Orientation & intro to mycelium
10	Apr 6th	S1 W5 - Unmoulding & Art Prep	S2 W2 - Raw materials & circularity
11	Apr 13th	S1 W6 - Coating	S2 W3 - Moulding and Forming
12	Apr 20th	S1 W7 - Planting (dry land trial)	S2 W4 - Classroom - Intro to NbS
13	Apr 27th	S1 W8 - Floating	S2 W5 - Unmoulding & Art Prep
14	May 4th		S2 W6 - Coating
15	May 11th		S2 W7 - Planting
16	May 18th		S2 W8 - Floating

THE UNIVERSITY OF SYDNEY

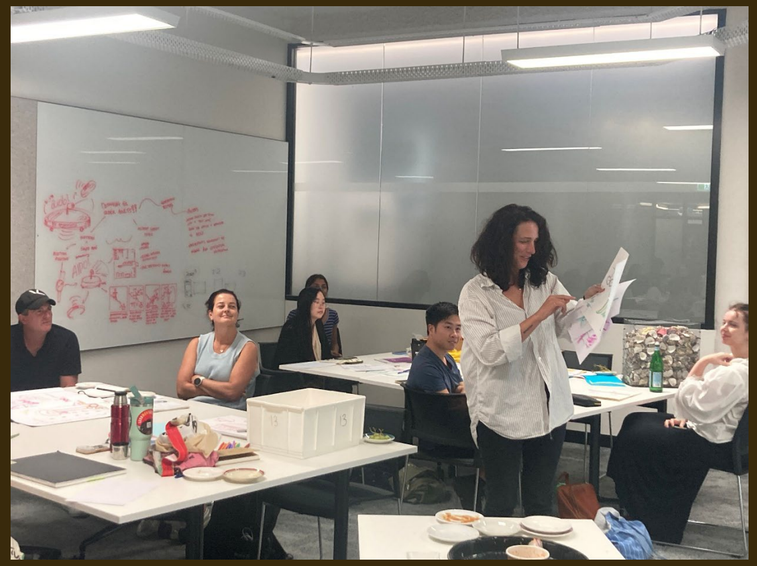






Design in process with 50+ community members

Rapid Prototyping & Creating Art Together







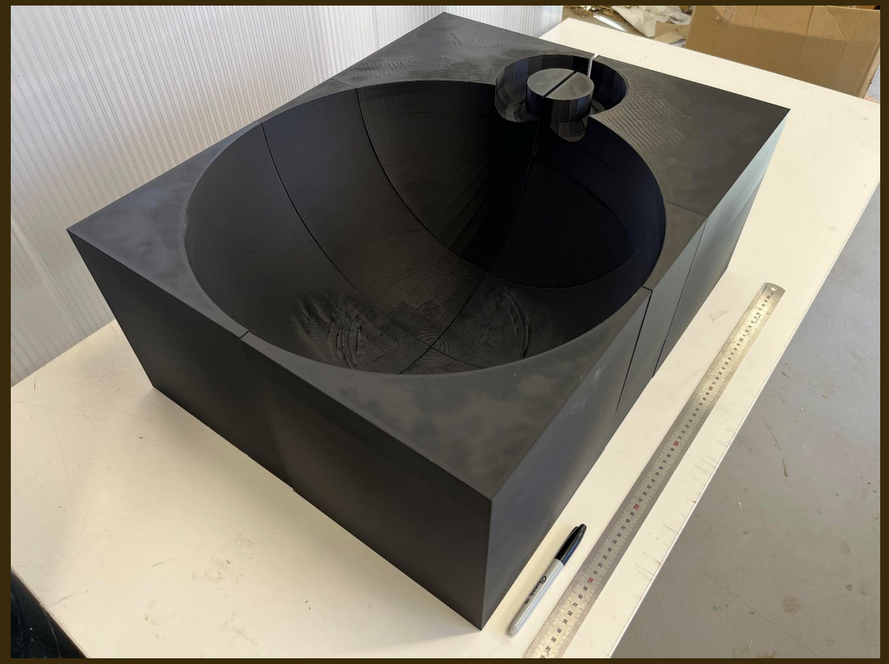






Scaleup – We are here now

But we have outgrown our space!



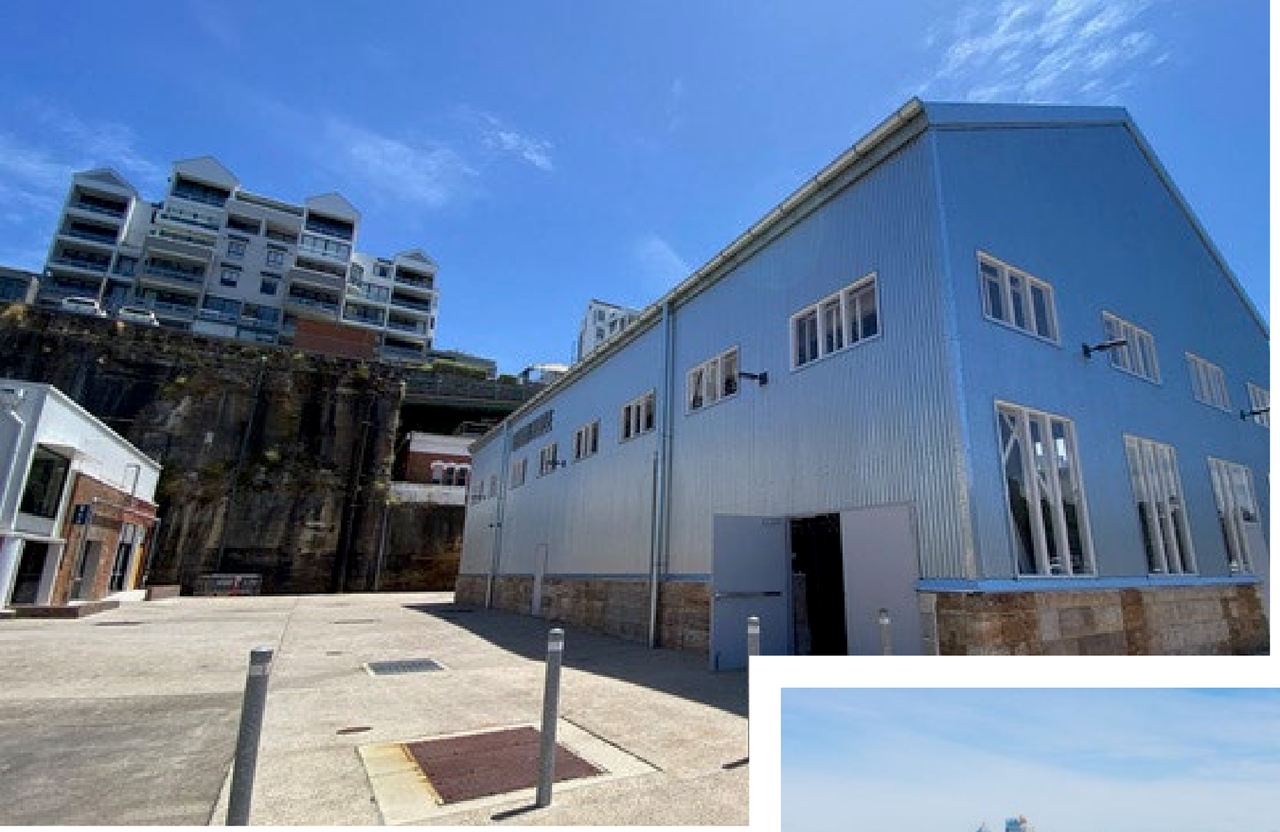




PRODUCTION AT SUB-BASE PLATYPUS



With the site secured, we are now raising $300,000+ for deposit and fit out

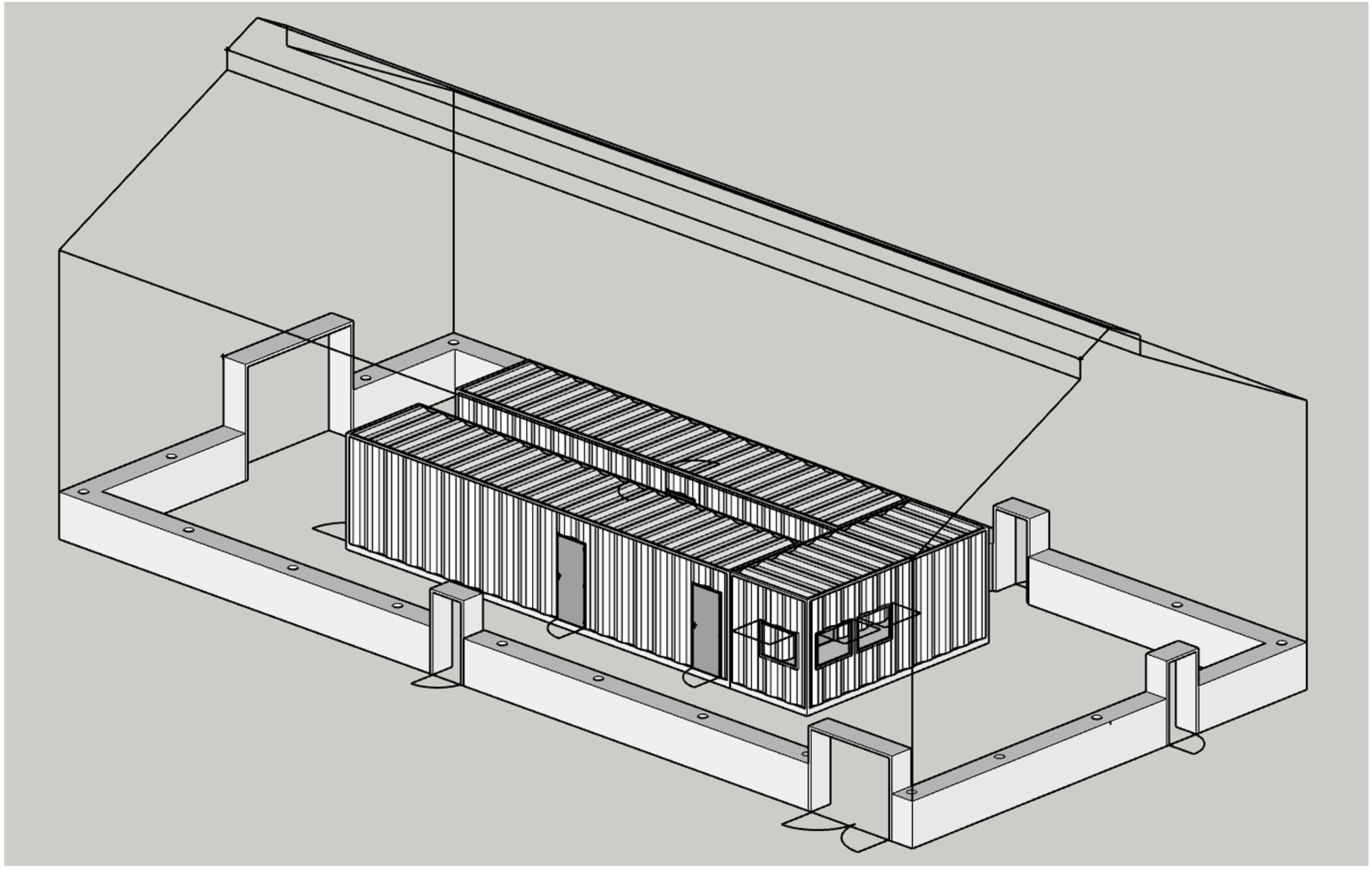


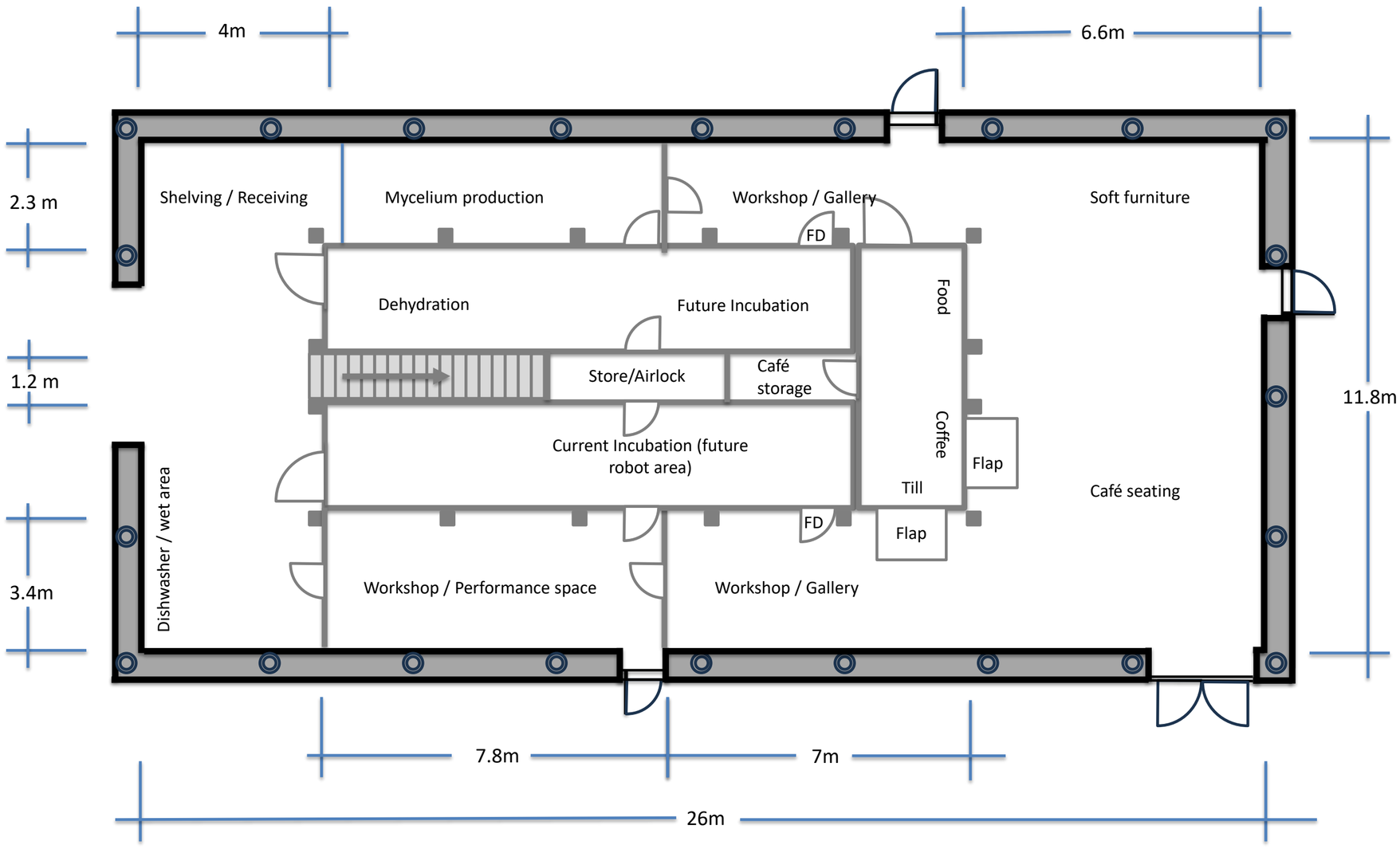



SUB BASE
PLATYPUS
HIGH STREET
VIA LIFT/STAIRS
Submarine School
Fleet Workshop
Retort House
Wirra Birra Park

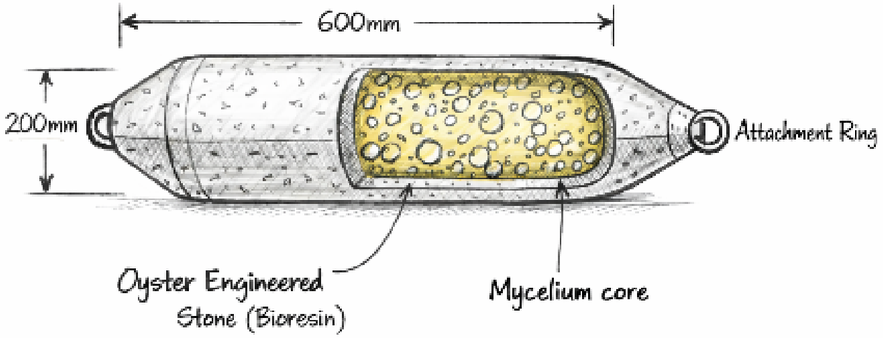




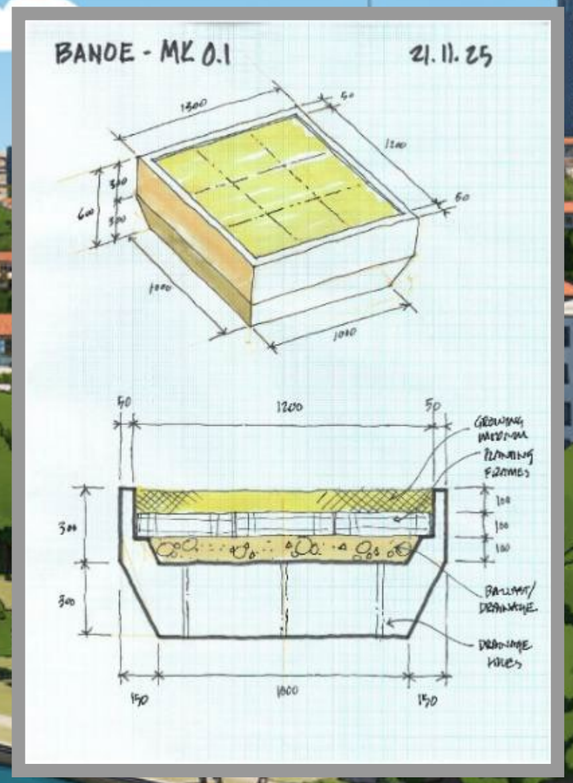



4m
6.6m
2.3 m
1.2 m
3.4m
11.8m
Shelving / Receiving
Mycelium production
Workshop / Gallery
Soft furniture
FD
Dehydration
Future Incubation
Food
Store/Airlock
Café storage
Coffee
Current Incubation (future robot area)
Flap
Till
Café seating
Dishwasher / wet area
FD
Flap
Workshop / Performance space
Workshop / Gallery
7.8m
7m
26m

STAGE 1: MATERIAL TESTING



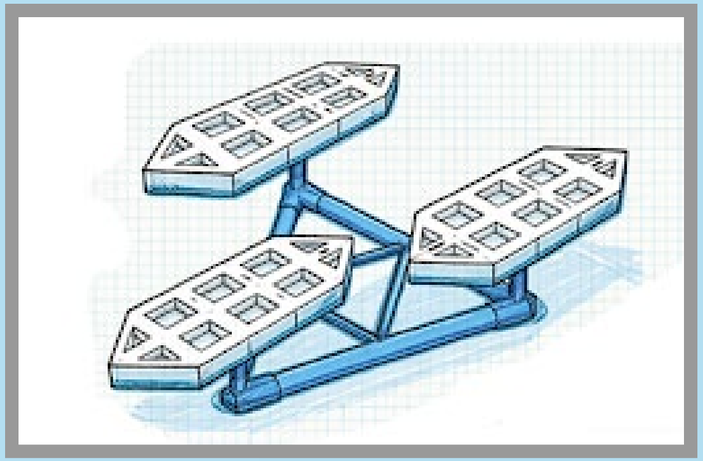
Proof of Concept created at USYD Design Lab with scale production planned at Sub-base Platypus



STAGE 2: FORM TESTING

At Sub-base Platypus

STAGE 3: FUNCTION TESTING





Manufactured at Sub-base Platypus
Deployed at Elizabeth Bay
and/or Neutral Bay
We need to raise ~$1M to this pilot



SCALE

25 Sites in Sydney Harbour
150 Across NSW
500 Australia wide
2,000+ Pacific Region

Catalytic philanthropy

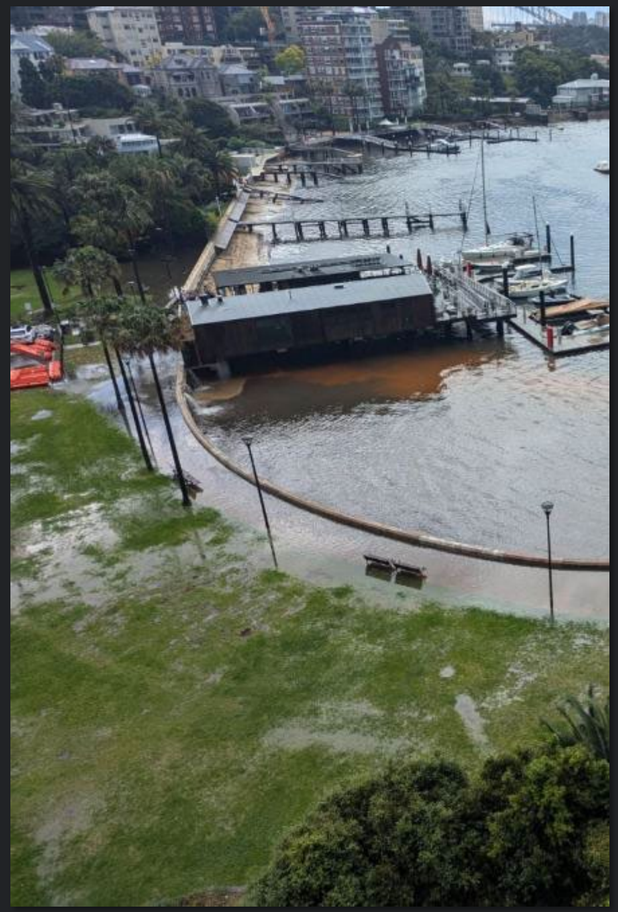
Creating a new market
Estimated at $2 million per site
$50M to $1B potential revenue
Leveraging University of Sydney patents

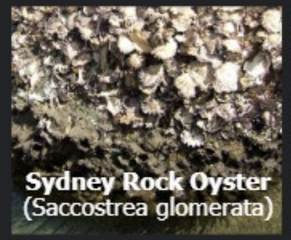
IMPACT

NATURE POSITIVE
CARBON NEGATIVE
SOCIALLY ENRICHING











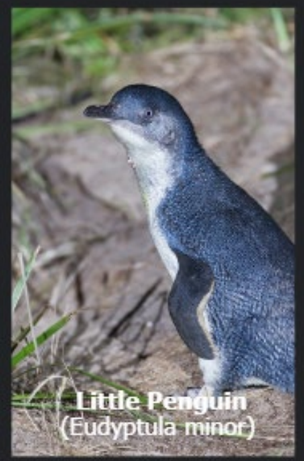








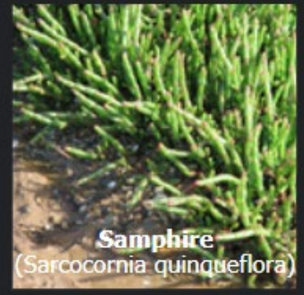


















Blue Green is an innovative environmental and social impact organisation.
As agents for positive change, we lead research, advocacy, product development, place projects and systems change to restore, regenerate, protect and enhance resilient environments and communities.

Through

Research

Eg. Academic papers, research projects & research grants

Advocacy

Eg. Sprints, Maritime science week, meeting government, talks/panels

Product innovation

Eg. Oyster buoys, harbour pools, marine infrastructure

Place projects

Eg. Elizabeth Bay plan, Rushcutters Bay plan, Iron Cove plan

Systems change

Eg. Pattern book, planning code/policy change, circular economy, living lab

We

Increase awareness and advocacy for blue-green infrastructure

Improve governance & funding for blue-green infrastructure

Increase adoption of blue-green infrastructure

Improve harbour, foreshore and community health & resilience

Delivering











Creating Environmental and Social Impact

- Improved biodiversity & habitat
- Habitat restoration
- Carbon sequestration
- Water quality improvement
- Air quality improvement

- Climate adaptation
- Flood mitigation
- Drought resilience
- Erosion control
- Urban cooling

- Public parks & amenity
- Connectivity
- Ageing in place
- Mental health
- Food security

- Social connection & cohesion
- Asset maintenance cost reduction
- Property protection
- Improved tourism & local economy
- Connection and Healing of Country



We can make Sydney and Australia greener, healthier, happier, and more connected for all of us.

Urban Nature Needs Champions