

Three Corners

PlivaTri

Let's Swim



-Plaza Brajdica-
Project Proposal: 01090403
[Complex Construction Project]

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Pliva Tri

Floating in the Adriatic Sea off the coast of Rijeka could lie a triangle pavilion, acting as a temple in the sea. The equilateral triangular shape contrasts the organic lines formed by the surrounding sea, highlighting its role of pointing to the three locations seen from Bajdica Beach - the shoreline, the sea, and the port. The triangular shape's outer portion is surrounded by a 0,8-metre wide walkway, allowing visitors to take part in a variety of experiences such as sitting, jumping to the sea or enjoying the view. In the inner part of the triangle lies an open void, serving as a communal area with a removable table. The contrast between inside/outside, geometric/organic, and natural/industrial transforms the pavilion into a temple on water - a place of reflection and connection between the elements and its visitors.

To embrace modernity and sustainability, the core structure is made out of charred wood and ropes, as well as having the potential to integrate repurposed sails into the structure as an attractive visual element. This combination creates an interplay of light and shadow, as the wind slowly rotates the structure and blows the sails/ropes to create fluttering patterns. The buoyancy of the structure is also secured with the repurposing of plastic barrels suspended underneath each section of the structure, combining stability with the flowing movements of the sails. The repurposing of materials not only minimises waste, but also connects the structure to Rijeka's industrial traditions in a modern way.

As the light throughout the day changes, so does the perception of the structure. The gentle, undulating blue waves reflect the sunlight, and in the background, distant coastal landscapes hint at the vibrant life of the city. The overall atmosphere is tranquil yet dynamic, with a subtle play of light on water at either golden hour or mid-day for a vivid, natural glow. In the bright daylight, the pavilion shines brightly, inviting visitors for a spontaneous moment of refreshment and relaxation. As the sun begins to set, subtle internal lighting highlights the contours of the pavilion, transitioning textures and expressions of its environment. Acting as a stage for Rijeka's visitors to enjoy the beach in a new way, the pavilion becomes a point of connection between its visitors and the city.

Problem and Relevance

Manoj Gujar
Local Guide · 49 reviews · 23 photos
★★★★☆ 4 years ago
small area but a good place to stroll, can see large container vessels on the port very close, **good view.**

SIMPLY DELICIOUS
Local Guide · 64 reviews · 594 photos
★★★★★ 3 years ago
Funny place with industrial view. Anyway - you can swim there)))

Premium Reviewer from Brabant
Local Guide · 169 reviews · 30 photos
★★★★☆ 4 months ago
Small, we walked from the center to here, but was not so nice. **So i made some art**

Marko Pavlicevic
Local Guide · 151 reviews · 53 photos
★★★★☆ a year ago
Could be much, much better beach for dogs.

Nicole Holz
Local Guide · 146 reviews · 45 photos
★★★★☆ a year ago
Small bay with a fine pebble beach, unfortunately no shade. The area is fenced so that the dogs can run freely. There is a shower to shower yourself or the dogs.

NEALA D.
Local Guide · 28 reviews · 2 photos
★★★★☆ a year ago
Unfortunately no shade - a parasol is a must!! It stinks a bit sometimes. The stone beach is very nice and pleasant to walk on, the water is clear. To settle some pigeons. No beach bar or anything to buy! You should take everything from home with you! There is a shower and a toilet [More](#)

dumdideldei93
9 reviews · 4 photos
★★★★☆ 6 months ago
Water was nice and clear and clean. The "beach" was also clean. Are rough stones. **No possibility of shade.** But great for a short cooling down for humans and dogs!
Dog-friendliness
Lots of dogs on this beach, many of them running loose.
Translated by Google · [See original \(German\)](#)



Александр Студилев
Local Guide · 47 reviews
★★★★★ a year ago
I didn't see any dogs but people are swimming, it's a pity **there's not enough space**

ana randjelovic
Local Guide · 41 reviews · 174 photos
★★★★☆ 2 years ago
This is a very interesting beach, but it is not organized
Dog-friendliness
Half the beach is for dogs

Vesna Podnar
Local Guide · 202 reviews · 505 photos
★★★★☆ 3 years ago
A lot still needs to be done to make the beach look nice and have some content for pets.

Carpe Diem
Local Guide · 75 reviews · 333 photos
★★★★☆ a year ago
Considering the location, the beach is excellent. Close to the container terminal and sewage outlet, but also close to the center of Rijeka. The sea is relatively clean, the beach is tidy, it has drinking water, there is a **lack of shade and perhaps a little more content.** For the most part, the dogs are happy, and that's the point :)
Translated by Google · [See original \(Bosnian\)](#)



Aurélien Froissart
Local Guide · 93 reviews · 72 photos
★★★★☆ 5 months ago
The water is magnificent and transparent. Close to the station but also to the goods port with exposed pipes.
The water looks good but this proximity makes me wonder. We didn't get sick and everything was fine.
Dog-friendliness
Dog beach with people swimming
Translated by Google · [See original \(French\)](#)



Why is this relevant to "City of Textures" Rijeka

Multiple reviews have highlighted the beach's lack of shade, limited functions, and small, uncomfortable beach full of pebbles. However, visitors have also recognized its potential for an artistic character combined with the views of the port and ships. While the water is clean, the beach itself remains rocky and constrained. To address these challenges, this proposal envisions a floating pavilion, a dynamic, artistic landmark that transforms the beach into a vibrant, interactive space. Suspended over the water, this pavilion removes the limitations of the rocky shore, offering a versatile environment for relaxation, play, and exploration. Visitors can swim, jump, lounge, or simply enjoy the shaded pavilion while taking in the tranquil scenery of the port and sea.

good view

need more context

no shade

Clean Water

the beach is small

Learning Points



8-10 Participants



Woodworking



Co-Design

Work with the participants and potential users to adjust the design on site.

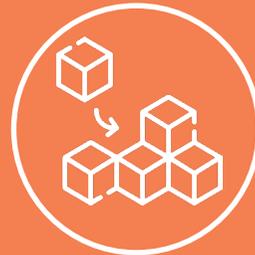


Weaving (Rope)



Sustainable building methods

Learning sustainable ways of treating materials, such as Yakisugi (Shou Sugi Ban), which is a natural way of wood burning for waterproofing. By collaborating with tutors experienced in these techniques, participants will be exposed to more sustainable ways of material manipulation.



Modular building

Learning how to build a sustainable and modular pavilion on water, for easier construction, assembly and disassembly, which is a unique building challenge



Recycling and repurposing materials

Learning how to recycle materials that connect to Rijeka's industrial heritage in a way that promotes a sustainable, yet modern way of integrating the culture into a new structure.

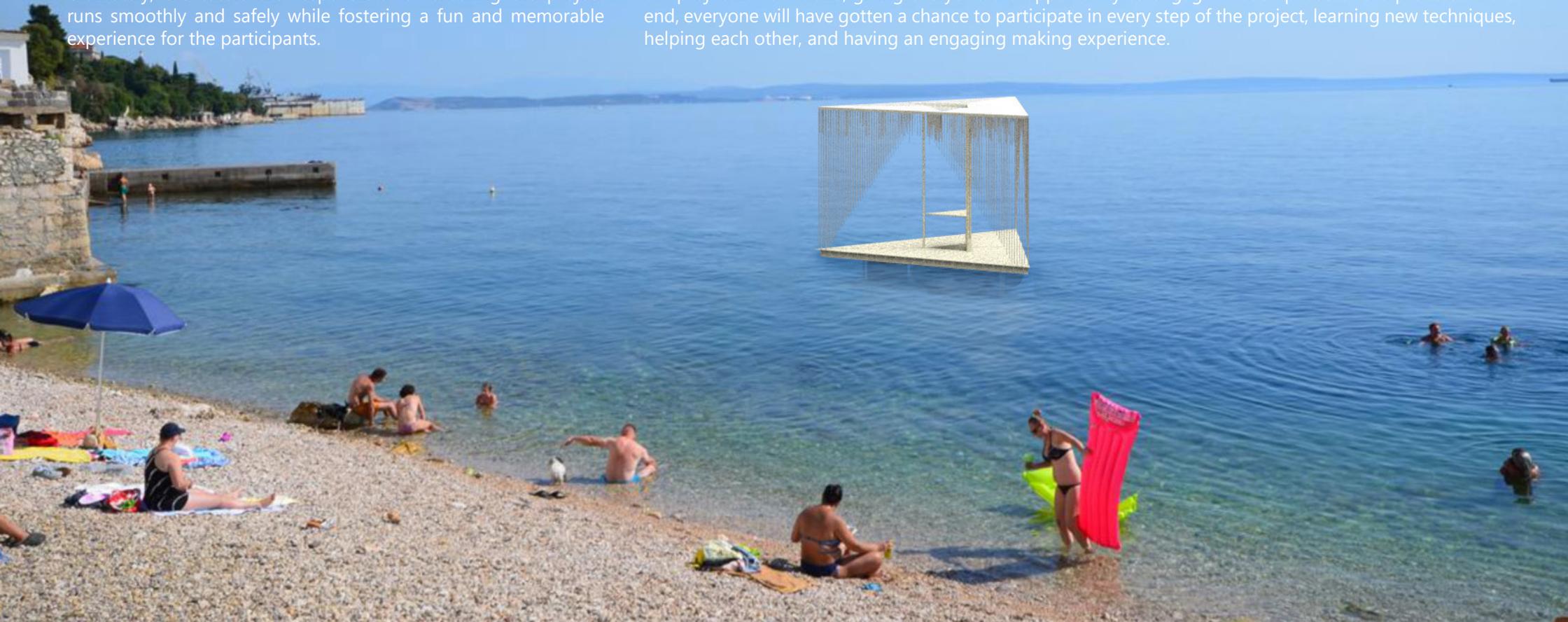
Organization

What is the role of the tutors?

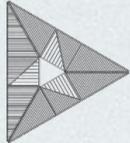
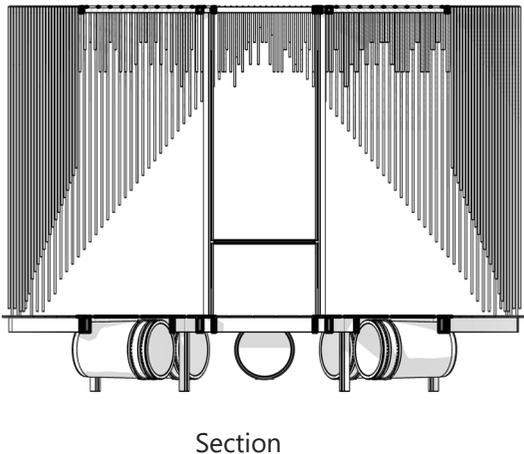
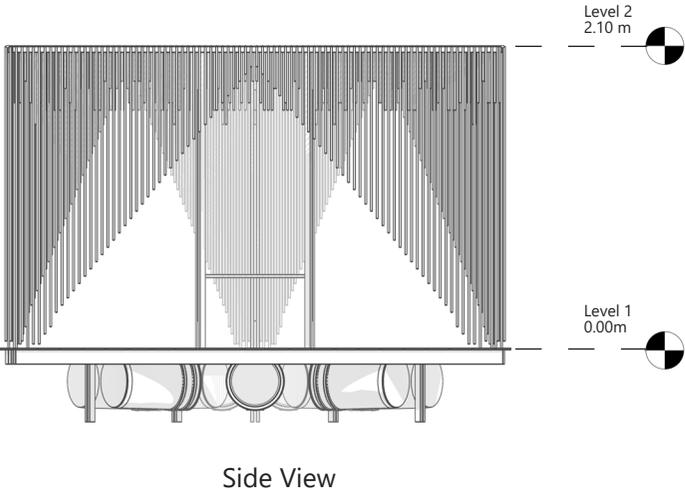
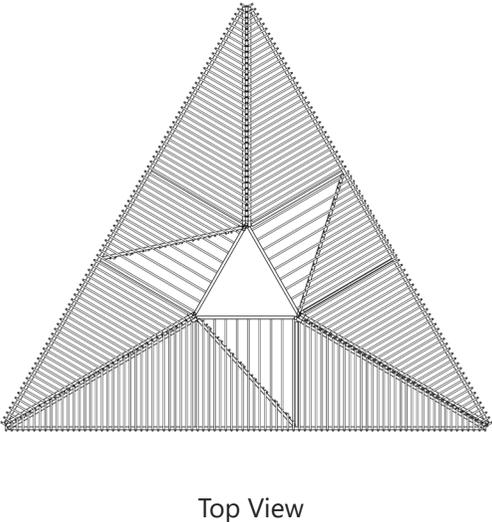
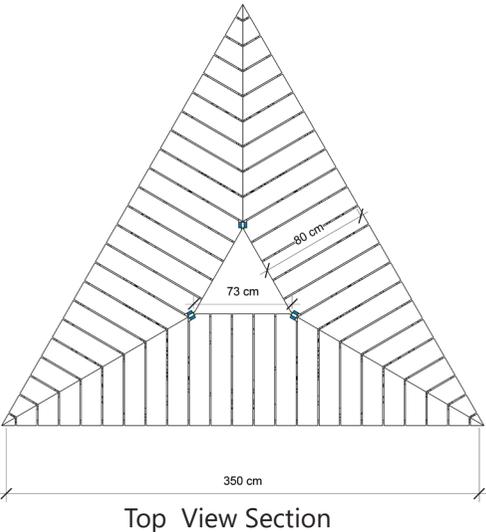
The tutors will be guiding and supervising the participants throughout the project. Initially, when the group splits into two, one tutor will lead the rope-cutting activity, while the other two will oversee the wood wood-cutting activity. One of the wood-cutting tutors will have the flexibility to move between groups as needed to provide extra support. When the project progresses to treating the wood, the participants will be divided into three groups, with one tutor assigned to each activity. As participants rotate between activities, tutors will do the same, allowing them to interact with all participants and assist with different aspects of their designs. Ultimately, the tutors are responsible for ensuring the project runs smoothly and safely while fostering a fun and memorable experience for the participants.

How will the participants engage in the project?

Participants will engage in the project through a hands-on process emphasizing in teamwork, rotation, and skill-building across multiple tasks. Due to the scaled-down structure, the number of participants is approximately half, but the complexity of the project still requires active involvement from all. The group will start by splitting into two teams: one focused on measuring and cutting wood, and the other on cutting ropes for the upper part of the structure. When there is enough wood prepared to start the charring process, a third group will form to begin the charring to treat the wood. This new group will consist of participants drawn from both initial teams, ensuring that individuals are not doing the same task the whole time. This rotation allows participants to experience different parts of the process and develop a broader set of skills. Once around 50% of the project is complete, participants will switch activities again in the same way. One experienced participant from each original group will stay on temporarily (half to one day) to help with the transition, ensuring continuity and smooth progress. This same rotation pattern will happen again when the project is 75% done, giving everyone the opportunity to engage in each phase of the process. In the end, everyone will have gotten a chance to participate in every step of the project, learning new techniques, helping each other, and having an engaging making experience.



Plans - Elevations



Life plan

Intended use:

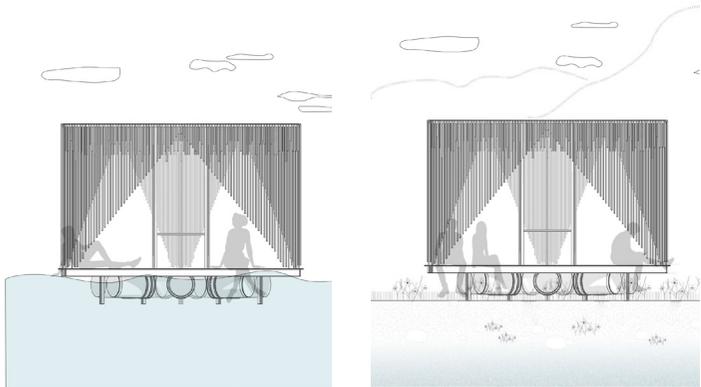
The pavilion will be placed in the water during various events.

After life plan:

Disassembly - The structure can be deconstructed completely, splitting it into 3 autonomous modules to give it a different purpose inside or outside the water,

Adaptability - The inner void can host different features such as a tree when placed outside the water.

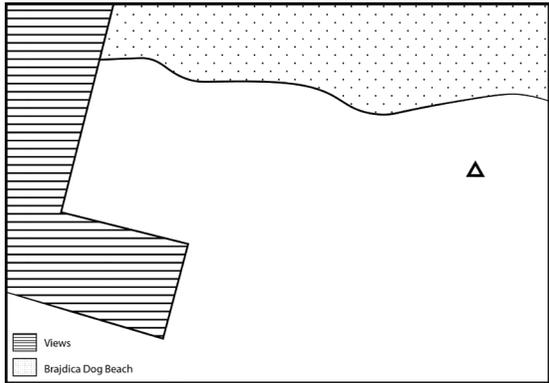
New site - The barrels that support its buoyancy can be removed to function as a pavilion on land instead, inside a park for example, used as a bench with greenery for playful interactions.



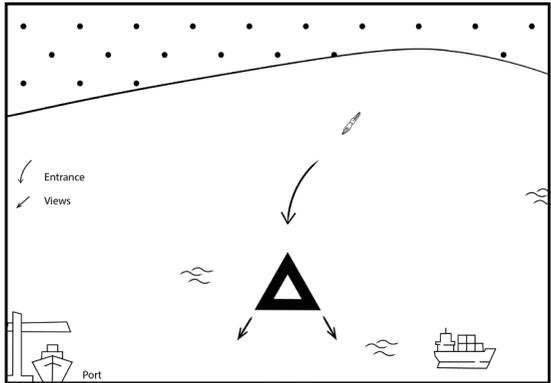
Water

Park

Diagrams

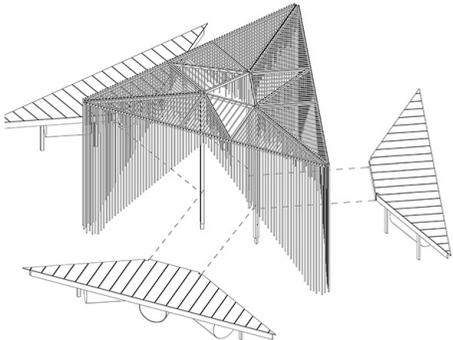
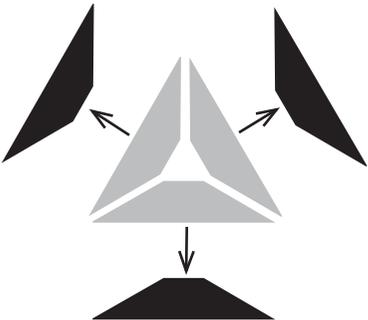
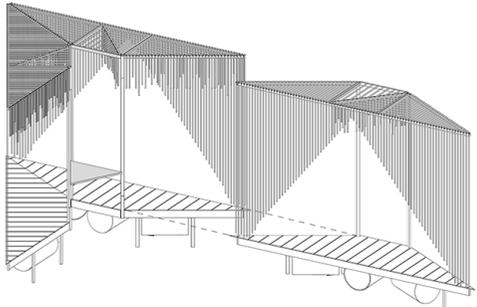
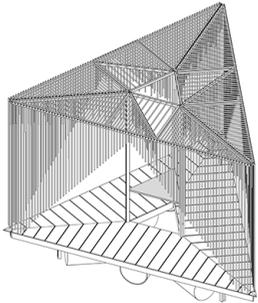


Masterplan

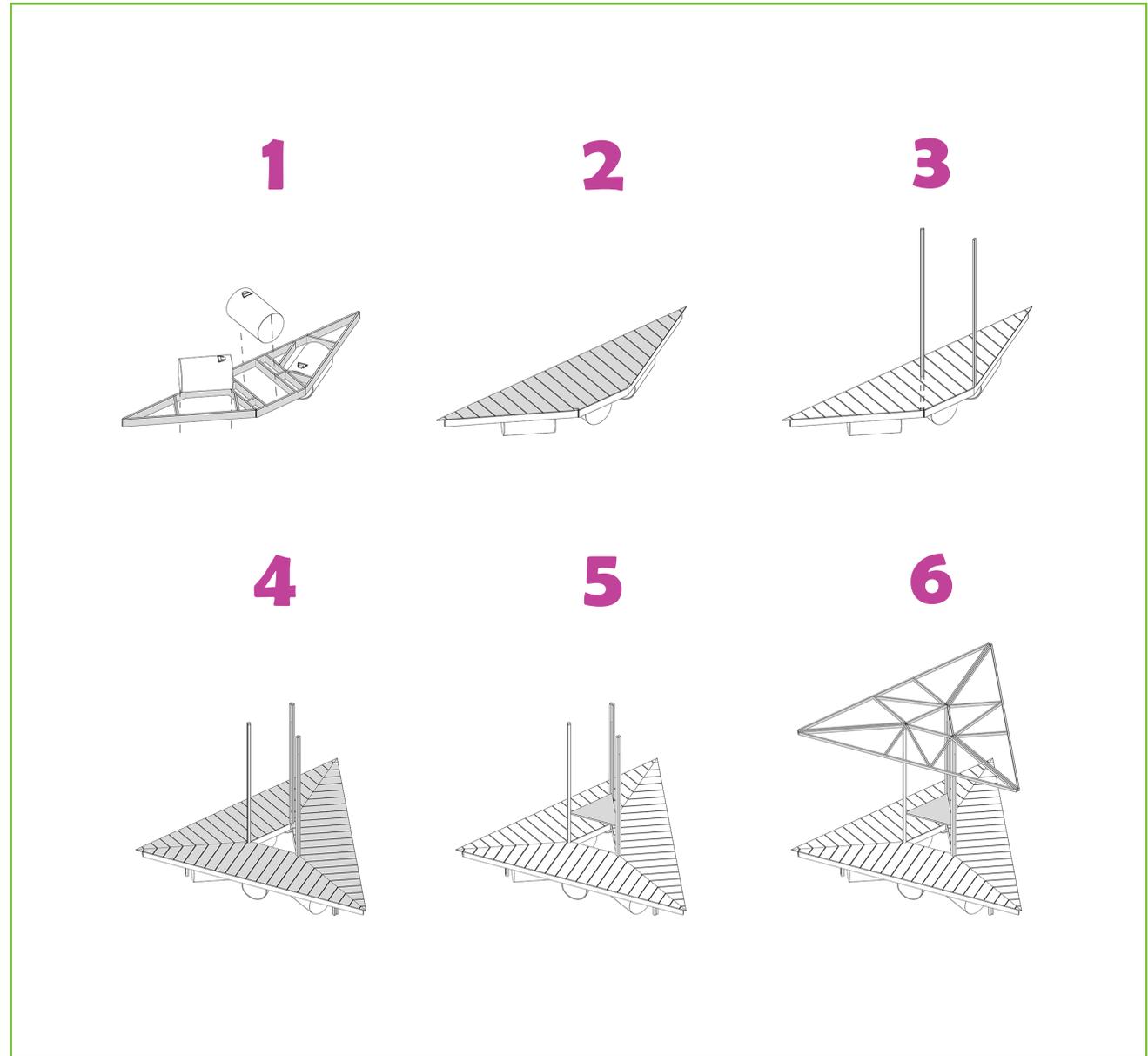
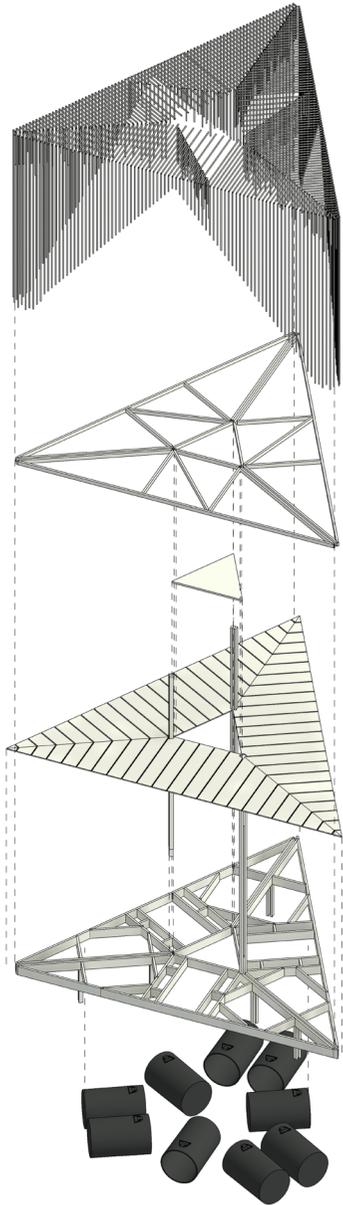


View points

Orientation



Exploded - Structure



Tasks

Tools

1	Site Visit with Participants (Get to know Participants & Explain vision and Location)				
3	Test One Component in the Water (Check how it floods with the barrels and how it reacts with weight)				
4	(Burn Wood)				
5	Sand Wood				
6	Cut Main Structure (Wood)				
7	Sand Main Structure (Wood)				
8	Cut Ropes				
9	Wave Rope/Sails				
10	Cure 2 layers (Wood)				
11	Varnish 2 layers (Wood)				
12	Paint 2nd Layer (Wood)				
13	Move Components to Location				
14	Assemply at Location				

Sustainable Practices - Techniques



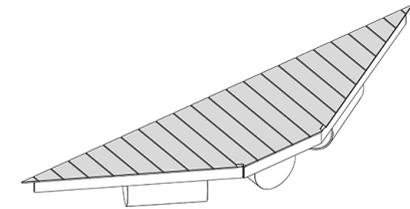
Repurposing old Sails or Ropes used on the boats or the port



Repurposing Old Plastic Burels used in the port



Burning Wood (Makes wood waterresistant in a sustainable way)



The pavilion itself is modular and can be easily assembled and dissassembled to repurpose on the municipality's needs



The ropes will be attached using basic knots forming a triangular pattern in the outside. In the structure the ropes will be shorter and arranged randomly on-site but kept short enough to immerse users slightly without risk of tripping or tangling.



The wood will be made water-resistant using Yakisugi, a Japanese wood-charring technique. A torch and propane tank will burn the wood to a deep black layer (1-2 mm) while keeping it intact. Testing on scrap pieces first helps determine the right torch distance. After charring, the wood should be rinsed immediately (e.g., with a hose) to cool them down, while kept straight like boats from water and when cooling to prevent warping. Next, a wire brush removes excess charcoal for a smoother texture, which can be further refined by sanding. For sealing, a 1:1 ratio of linseed oil and turpentine is best for smoother finishes, while polyurethane works better for sealing rougher textures—both requiring two coats. Since this method is water-resistant but not waterproof, we'll apply marine liner paint for extra saltwater protection.



Budget

Materials Name	Amounts	Size	Cost	Link
Gallons	10 piece	100 L 700 x 400 mm	150	https://www.njuskalo.hr/bacve/bacve-100l-oglas-41621983
Rope	1 piece	10 mm 500 m	152	https://www.njuskalo.hr/vrtna-oprema/radno-uze-bijelo-10-mm-500-m-polipropilena-oglas-45097827
Drvena letva ŽAŽE 20x40 2M Wooden beams (column + roof)	21	40 x 20 mm x 2m	153,09	https://www.pevex.hr/drvena-letva-zaze-20x40-2m
Drvena letva ŽAŽE 20X100 2M Wooden beams (base)	21	100 x 20 mm x 2m	250, 53	https://www.pevex.hr/drvena-letva-zaze-20x100-2m
Wood planks (Floor)	20	14,5 x 2,8 mm x 2m	199	https://www.bauhaus.hr/podne-daske-za-terase/podna-daska-za-vrtne-kucice/p/22980814
Profi Depot Vijak za ivericu A2 Standard Wood Screws	2 boxes (200 pieces)	4 x 40 mm	36,26	https://www.bauhaus.hr/vijci-za-drvo-i-vijci-za-ivericu/profi-depot-vijak-za-ivericu-a2/p/10805339
Standard Wood Screws (for beams)	1 box (100)	4 x 60 mm	22,17	https://www.bauhaus.hr/vijci-za-drvo-i-vijci-za-ivericu/profi-depot-vijak-za-ivericu-a2/p/20082431?variantfallback=diff0-diff1
Profi Depot Šesterokutni navojni vijak Bolts (to connect the columns)	1 box	8 x 70 mm	10,05	https://www.bauhaus.hr/navojni-vijci/profi-depot-sesterokutni-navojni-vijak/p/10815343
Profi Depot Šesterokutni navojni vijak Bolts (to connect the components)	1 box	12 x 160 mm	33,28	https://www.bauhaus.hr/navojni-vijci/profi-depot-sesterokutni-navojni-vijak/p/10827726
Straight Bracket Joint Board (to connect the buckets with structure)	5 boxes	hole should be 4-5 mm	17, 25	https://www.bauhaus.hr/perforirani-limovi/spojni-lim/p/20137191
Galvanized Steel Strap with Holes (to connect the buckets with structure)	15 rolls	10 m thickness doesn't matter	25,43	https://benl.rs-online.com/web/p/fixing-straps/0377322?utm_source=chatgpt.com
Natural Oil (Tung/ Linseed/ Teak) Special Wood Coating CHROMOS LIGHT ULTRA DECKING OIL COLORLESS 0.75L	6 cans	0.75 L	59,94	https://www.pevex.hr/specijalni-premaz-za-drvo-chromos-svjetlost-ultra-decking-oil-bez-bojni-0-75l
Marine Varnish Chromos Svjetlost Lak za Čamce (2.5L)	6 cans	2.5L	143,4	https://www.pevex.hr/specijalni-premaz-za-drvo-chromos-svjetlost-lak-za-camce-2-5l
Marine liner paint (White) Boat paint HEMPEL LIGHT PRIMER OFF WHITE 0,75L	9 cans	0.75 L	150,21	https://www.pevex.hr/boja-za-brod-hempel-light-primer-off-white-0-75l
Wood glue	750 g		19,23	https://www.bauhaus.hr/ljepila-za-drvo/bison-specijalno-ljepilo-timber-max-d4/p/22125420
Nails - Flooring Stabilit Čavli za klamericu	1 box (60 pieces)	50 mm	2,55	https://www.bauhaus.hr/cavlici/stabilit-cavli-za-klamericu/p/10763134
Total Budget			1424,39	

Planning

