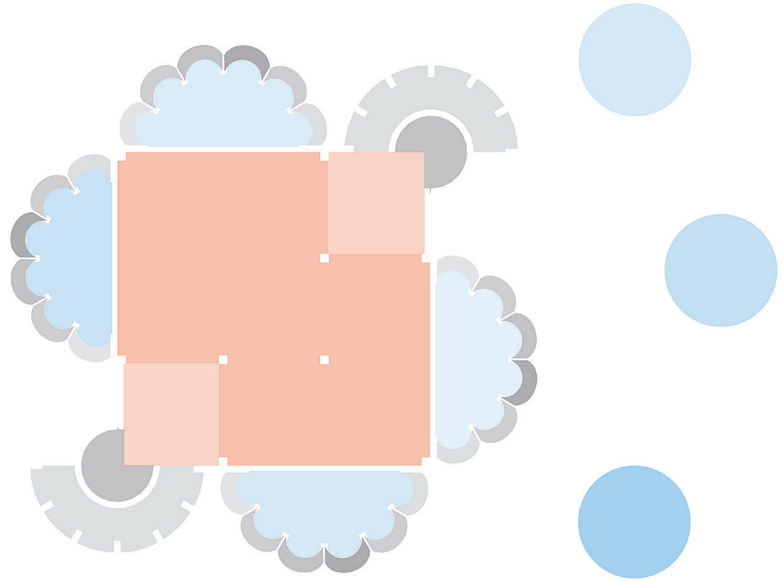


RECOVER

DESIGN APPROACH

Our cities are evolving into timeless places that have broken the boundaries of routine as we know it. As designers we must acknowledge this continuous unrestricted way of life, developing and planning to embrace it. Currently our cities are made up of buildings which are inefficient, under-utilised assets. Our intervention looks to offer a flexible 24-hour-system, providing continuous open space to the community it serves; being constructed using methods and materials that allow it to evolve and fluctuate sustainably to the demands of society. The design addresses the critical issues of material re-use, re-pair, re-manufacture and accessible system and component replacement. By designing these factors in we are able to reduce the need for virgin materials and reduce the environmental impact.

PROGRAMME/PLAN



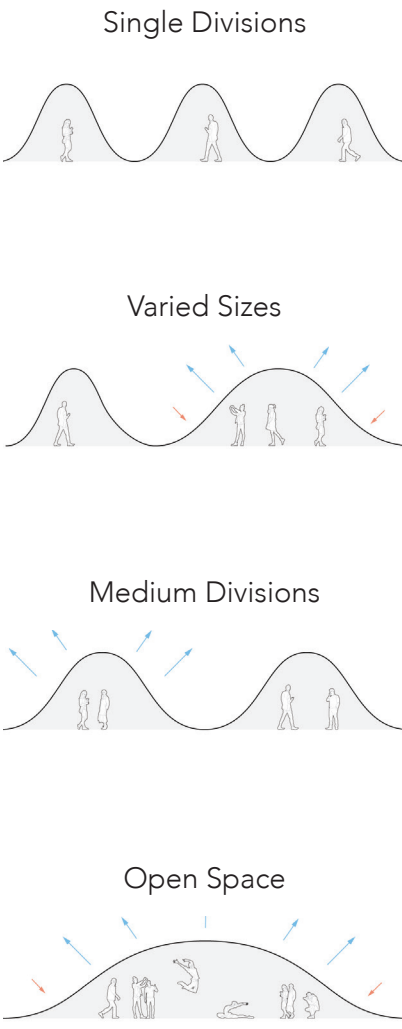
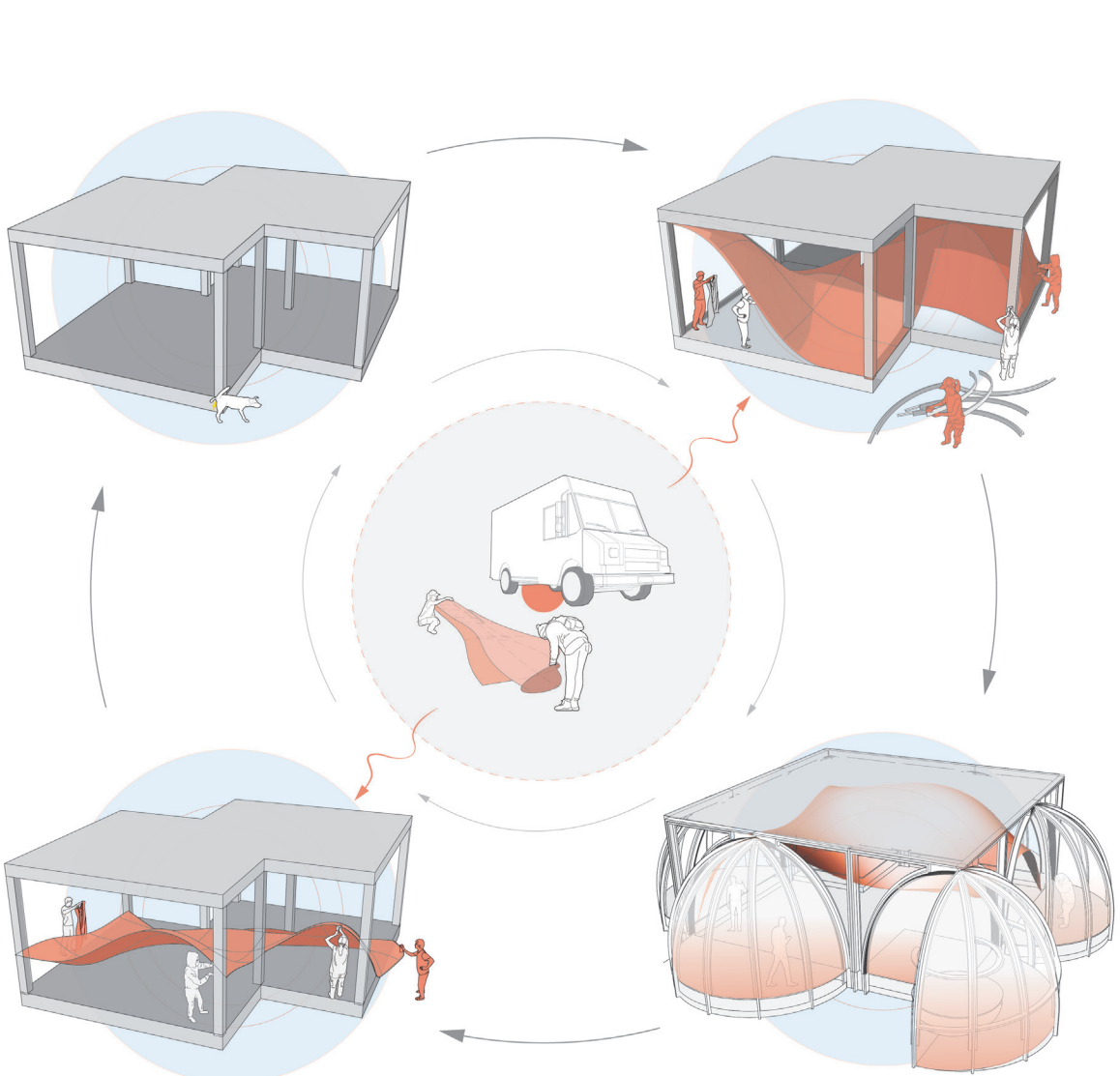
Kiosk
This service looks to be available to users day and night. Although it will bring a new offering the culture of the night time economy in providing sundries and healthy food that is on offer during the current 'working day'. With this we aim to move away from the unhealthy late night takeaway culture.

Medical
Firstly we look to offer medical services in the form of a pharmaceutical dispensary to align with the progression to increased self-care promotion for minor injuries and illness. Our current system doesn't support self-care, forcing people to use A&E services which are 30 times more expensive than self-care for minor issues.

Exhibition
Due to our adaptable systems, materials and design we are able to transform the building internally to allow conferences, exhibitions or shows to take place. This offering adds a final opportunity to the build to fulfil the circular daily lifestyle offering.

Recuperation
With people working longer and what we currently deem 'unsociable hours' we wished to address this issue within our space. The term 'unsociable' is only relevant because society is not currently catering for these peoples needs at the time they are being productive in the world. Our use of flexible space and materiality looks to allow users recuperation time from the city whatever time of day the require it. The 'nap pod' industry is one that is growing in major cities such as London and New York. We look to design in this service now as a way of future proofing our offering and complimenting our other building sectors.

ADAPTABILITY

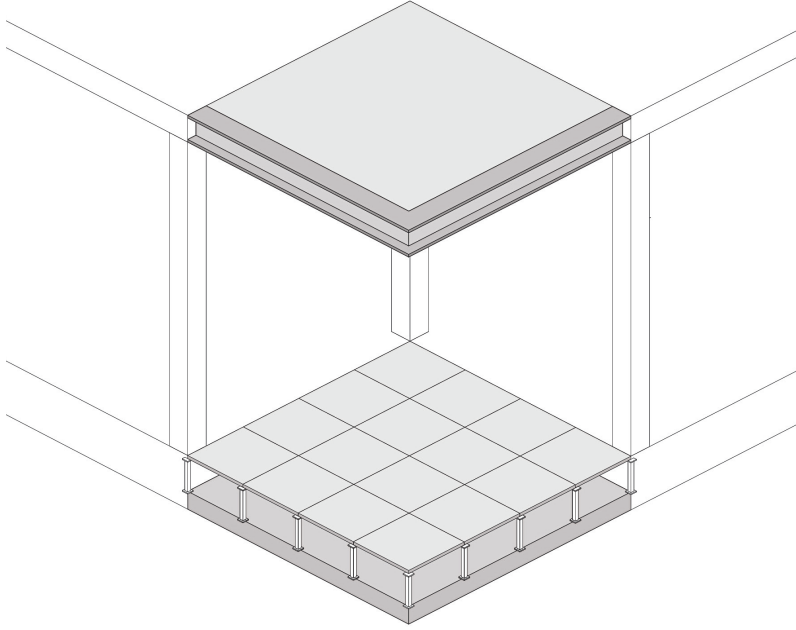


PROGRAMME

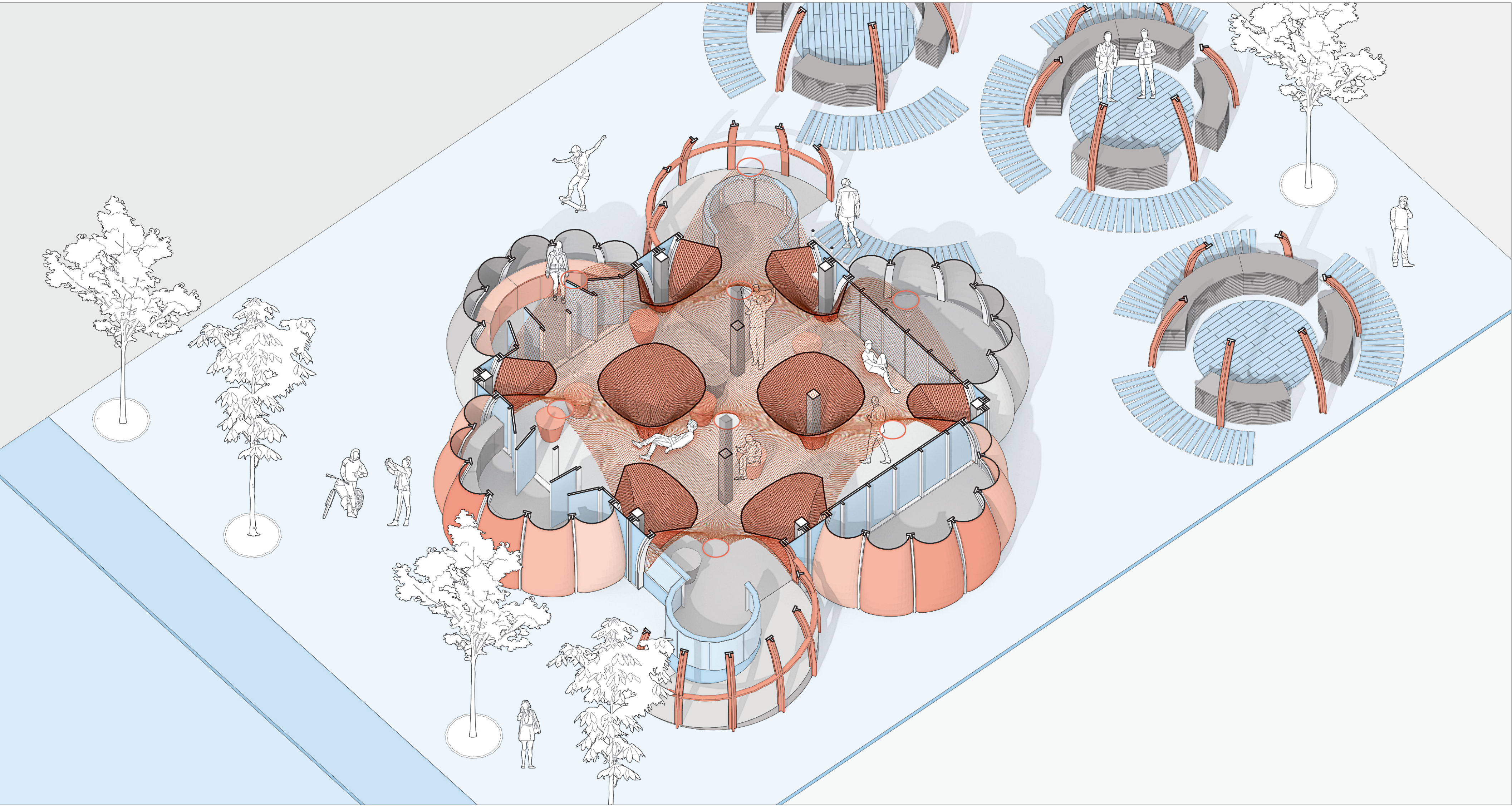
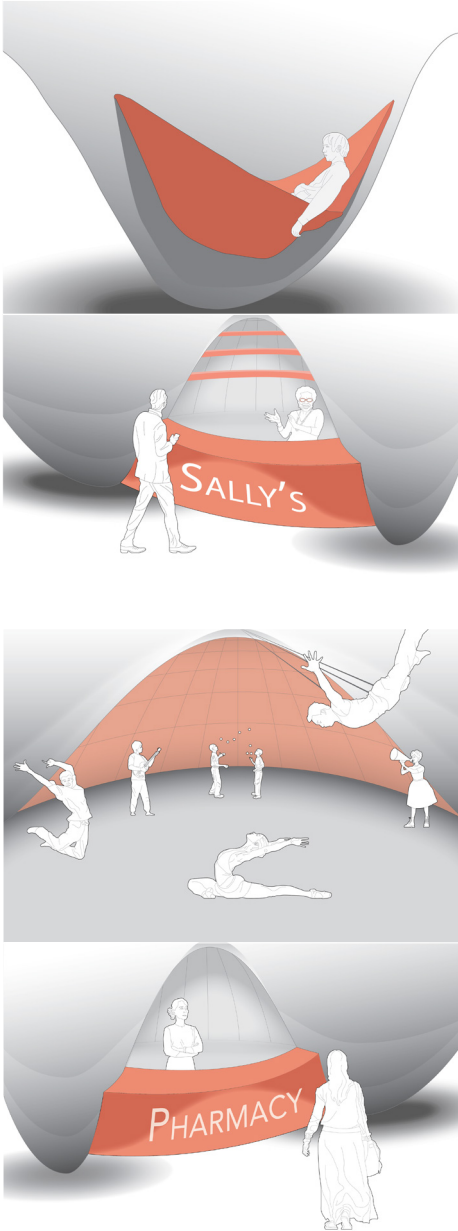
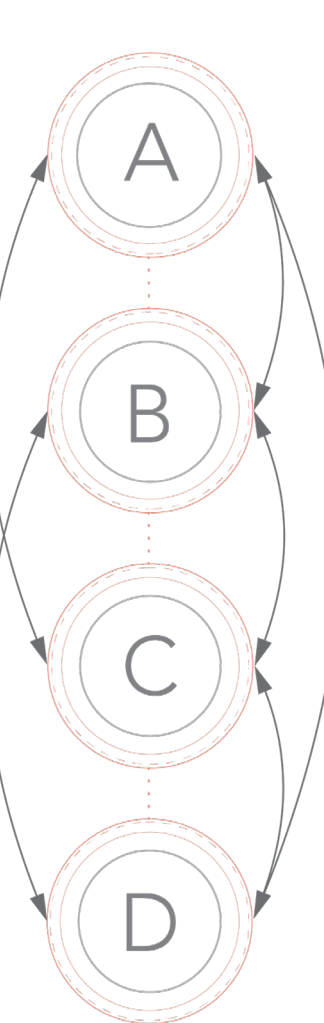
Society today have a greater appetite for immediate adaptation within spaces, due to the trends and technology that feed them. We therefore aim to research into materials that offer us the flexibility and power to reconfigure space to meet these demands. With the correct use of material and systems we are able to create a building that runs at 100% capacity through four different sectors of use, offering excellent value, viability and service to society.

During our research and development phase we highlighted four sectors that would offer society additional services within the cities emerging 24-hour economy. These sectors are; medical, retail, recuperation and exhibition; each provides a benefit to another.

CORNER INFILL



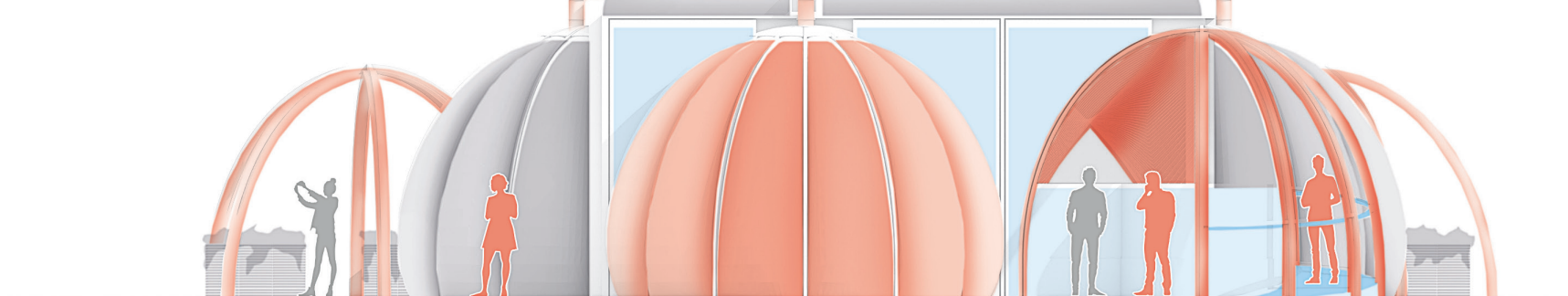
FUNCTION FLEXIBILITY WITHIN 2HRS



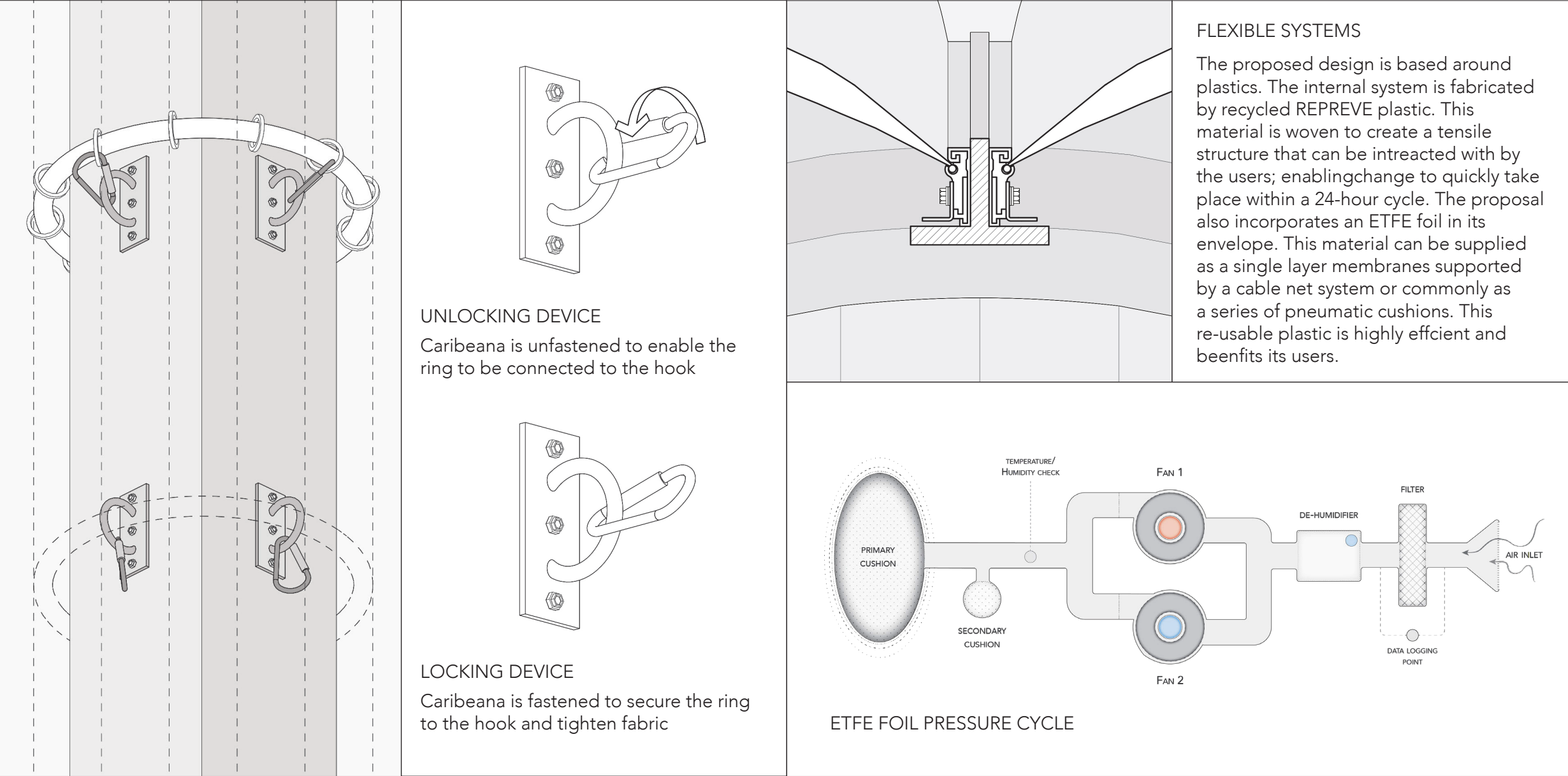
PROPOSED SECTION



PROPOSED ELEVATION



TECTONICS



MATERIALS TABLE

BUILDING POSITION	PRODUCT NAME	MANUFACTURERS NAME/LINK	EFFICIENT USE OF RESOURCES		DESCRIPTION/ QUALITATIVE ASPECTS	
EXTERNAL WALLS	ETFE Foil	Architen Landrell http://www.architen.com/	1000m ²	<p>This product is able to be easily repaired on-site, re-used and re-manufactured for other uses. With the product having a life span in excess of 50 years.</p> <p>This product is lightweight and able to be assembled on-site without major plant. It is able to be fixed with simple hand tools and recycled at the end of its life</p>	<p>ETFE can be repaired to be used on other projects, or re-manufactured and processed to be used on other building projects both internally or externally</p> <p>Its next use could be aluminium frames, a fizzy drink can or food can. It can be easily re-manufactured reducing the need for more raw materials to be extracted.</p>	<p>ETFE cushions achieve U values of 1.96 w/mK (3 layers), achieving a better UV value with our 5 layers of foil. Applied with a film to reduce solar radiation diffusing light and reducing glare in the space. Allowing complex geometries to be formed.</p> <p>Aluminium frames are able to be constructed on-site without large plant usage. They have good strength to weight ratio and offer a sustainable solution for a circular economy approach to the building.</p>
FRAME	Aluminium Frame	Architen Landrell http://www.architen.com/	200m	<p>The material is efficient, can be easily manipulated with simple hand tools allowing the used greater flexibility. The material is made from recycled plastics so no use of raw materials. Lessening environmental impact.</p>	<p>Repreve made from recycled plastics and can therefore be ground back up into pellets at the end of its life within the building and re-manufactured into another product.</p>	<p>This product will be used alongside two others to create unique spaces internally. The product can be easily adjusted by the user and allows for dynamic spaces to be formed internally</p>
INTERNAL SURFACES & WALLS	Repreve Fabric	Repreve https://repreve.com/shop	100m ²	<p>This timber is reclaimed from other buildings or sites where it had a previous use. We are giving the timber a place in the circular economy of the building. We do not have to use any virgin materials.</p>	<p>This timber could be sold back to the wood recycling centre or up-cycled or used in a different capacity within the building</p>	<p>This furniture can be produced on-site once materials have been delivered from previous home. This allows the story and life story of this timber to continue in our building.</p>
INTERNAL FURNITURE	Reclaimed Timber	Community wood Recycling https://www.communitywoodrecycling.org.uk/buy-wood/	52m ²	<p>Applied in a spray format to the external skin in order to enhance the waterproofing of ETFE foils. This spray can be reapplied over time but will feel some effects due to weathering.</p> <p>By using photo-luminescent fabric for our internal spaces we enable the reduction of artificial light, reducing our demand on the grid producing less wasted heat energy.</p>	<p>The packaging from this product can be recycled however the product can be reapplied over time but will feel some effects due to weathering.</p> <p>There are many potential uses for this product as a next use. It could be turned into clothing or used in theatre sets. It can be easily manipulated by the user on-site.</p>	<p>Applied to the external layer of the ETFE Panel in order to improve waterproof nature of the foil</p> <p>This is a product that will offer both environmental and aesthetic values to the project. Producing light emitting spaces that do not require power, reducing the heat produced and M&E required. This fabric captures light by day and emits it at night.</p>
EXTERNAL COATING	Hydrobead - Applied to ETFE	Hydrobead http://www.hydrobead.com/consumer	180m ²	<p>The thermal conductivity of hemp insulation is 0.039 W/m²K heat energy. Zinc is weatherproof and durable.</p>	<p>Hemp fibre is biodegradable at end of life. Zinc can be re-manufactured to create bathroom fixtures, structure or sheeting.</p>	<p>Hemp is sustainably grown and has a circular lifestyle, with it being biodegradable. Zinc offers a high quality durable roof which can be re-used and re-manufactured after its life in this building.</p>
INTERNAL SURFACE & LIGHTING	Photo luminescent Fabric	Lightlead https://lightlead.en.alibaba.com/	100m ²			
ROOF BUILD UP	Insulation & Roof Finish	Black Mountain - Insulation Rheinzinc - Roof Finish	96m ²			