

COMMUNITY AND THE VERNACULAR

DEPICTING THE EFFECTIVITY OF COMMUNITY DESIGN IN FORMING A SUSTAINABLE URBAN LANDSCAPE THROUGH VIRTUAL REALITY

Community and the Vernacular responds to the brief of how a space lives in the context of Zorratzaurre, Spain.

Through my research I have noticed that the locals felt disregarded in the urban regeneration of the island, so the proposal conveys how spaces should embody the views and demands of communities as a collective, with a known challenge of bringing them together at a time where interaction is at a minimum due to the pandemic

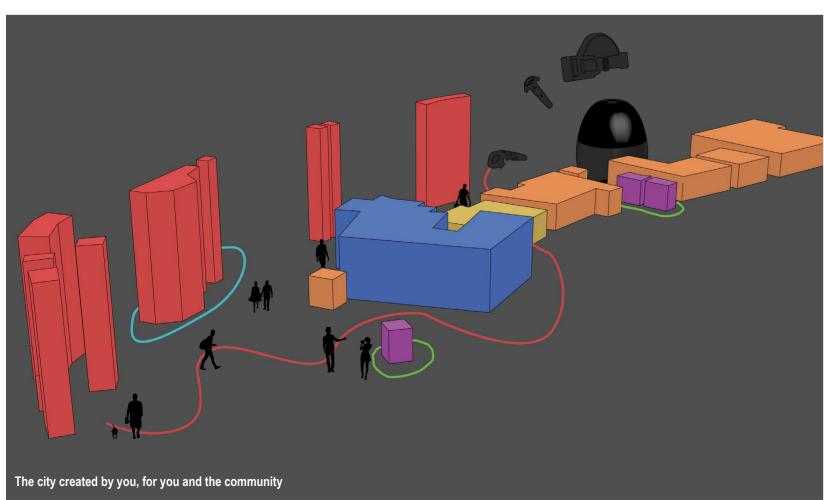
The physicality aspect of interaction during COVID is lost behind a screen, and with the uprising of the digital world that could be manipulated beyond the physical dimension allows for multiple possibilities. Through the pandemic and the given remote site allowed for exploring many forms of collaboration and dialogue around regeneration through virtual reality, where the voices of the local communities can be more clearly represented

This portfolio will exhibit two propositions that were created highlighting collaboration

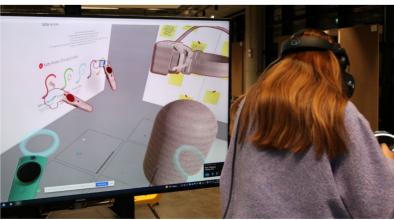
PROPOSITION ONE: THE VIRTUAL

"ARCHITECTURE IS TOO IMPORTANT TO BE LEFT TO ARCHITECTS" - GIANCARLO DE CARLO

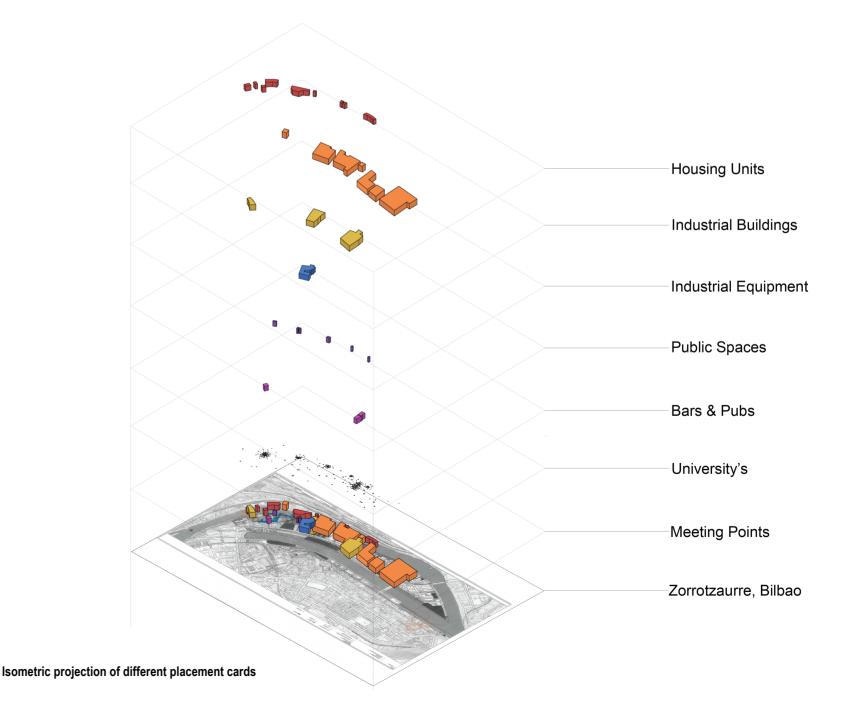
The first part of the proposition depicts multiple placement cards representing different aspects of the islands topography created in virtual reality as an interactive tool portraying how the communities correlate with the landscape, and allows for new constructs of a dynamic city to be created. These sheets will allow for the student community, the leading future of the island, to restructure the terrain with no regional specificity, or given hierarchy to allow them the freedom to highlight the aspects that they believe are important

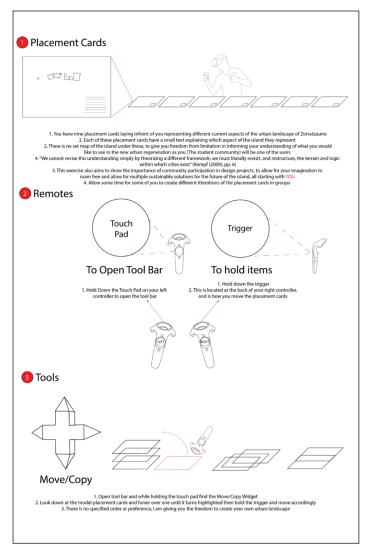


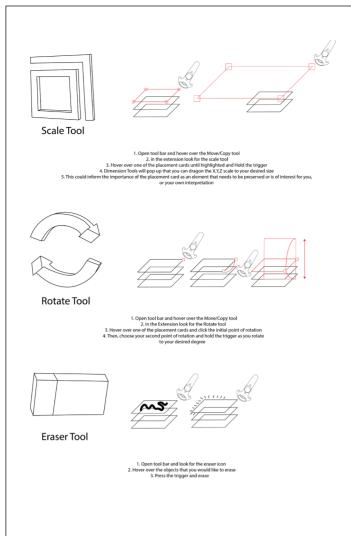


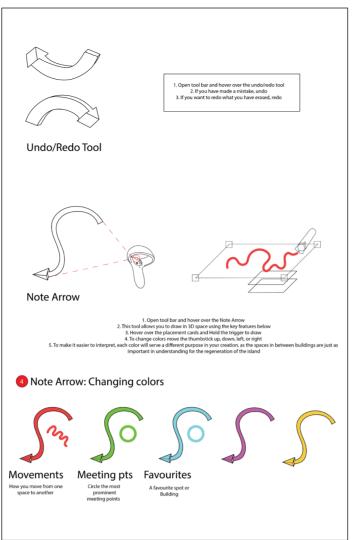


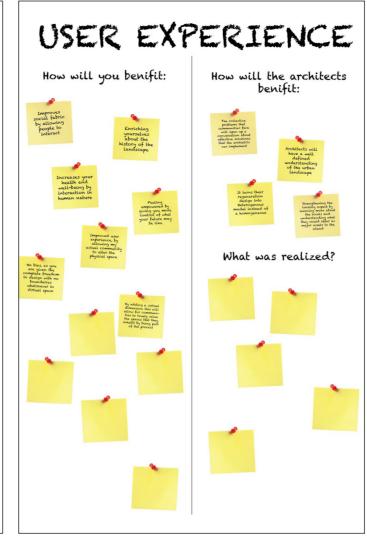


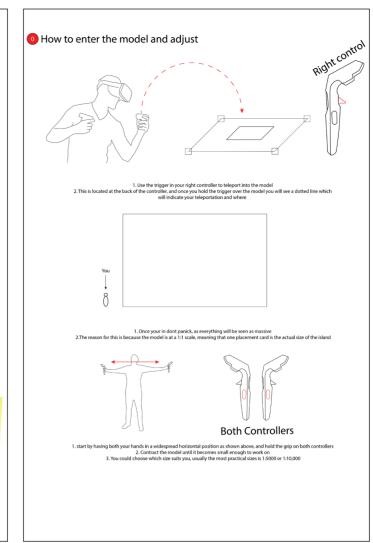


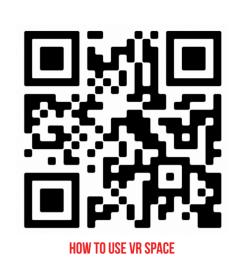














HUW TU SCALE/DRAW IN SPAC

Instruction sheets were created showing the students how to use the headset, as well as a user experience sheet exhibiting how themselves, architects and designers will possibly benefit from this experience, in an aim to try to improve user experience and collaboration, and to truly value the spaces that they inhabit by being part of the process

Additionally, participants can draw their own lines on the created city, representing movements, meeting points, and scaling themselves down to walk through the city, empowering them and blurring the disconnection that the virtual world has with the physical.

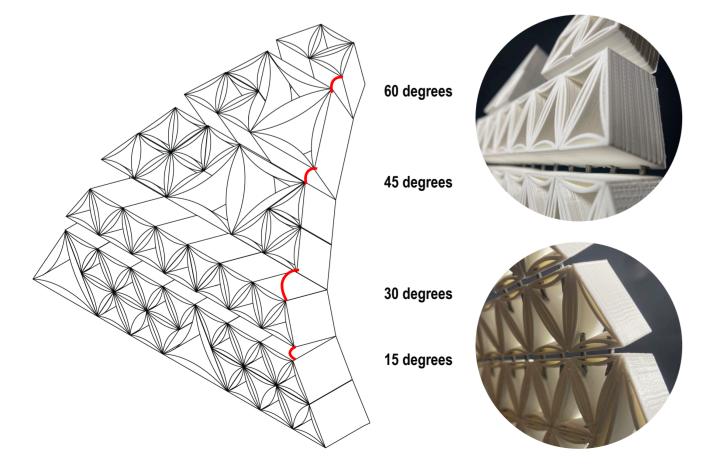
The realization of this project foregrounds collaboration in the creation of a healthy sustainable cycle of co-existence, through a recalibration of existing assets to help inform, and introduce new constructs of the city (Scan QR codes to experience)

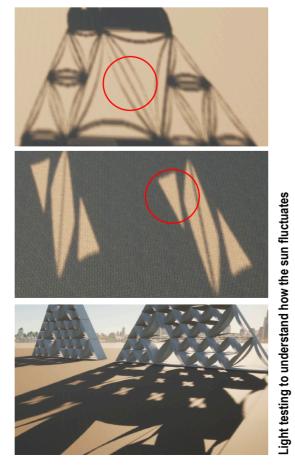
PROPOSITION TWO: THE SPATIAL

FRAMES FOR COLLABORATION: WITH THE VIRTUAL, ENVIORMENT, AND PEOPLE.

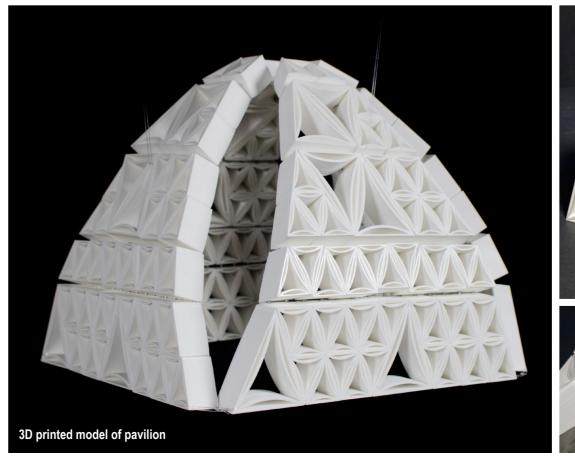
An extension of my collaboration with students from IED university includes the creation of a spatial proposition in the given site of the abandoned Artiach cookie factory in Zoratzaurre, Spain. The challenge was then how to merge both the physical and digital worlds together to help revitalize the connection between people and space through the collaboration with students from IED, which proceeded by creating two worlds

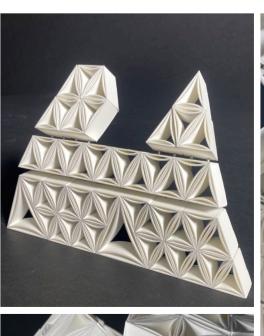
The pavilion utilizes how architecture in the virtual world is made up of microscopic polygons and triangles, meanwhile oriented to a situated GPS reality through sun path analysis to bridge the natural (The real) and the man-made (The virtual) realm. The concave interior triangles were added to soften the edges and make the structure less intimidating, and are color coded to highlight the different aspects of the islands topography that were studied in the first proposition



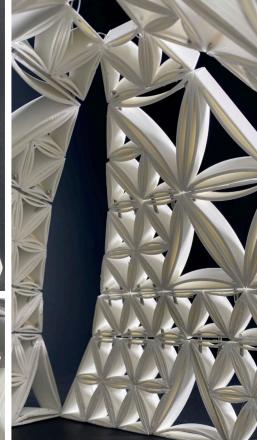


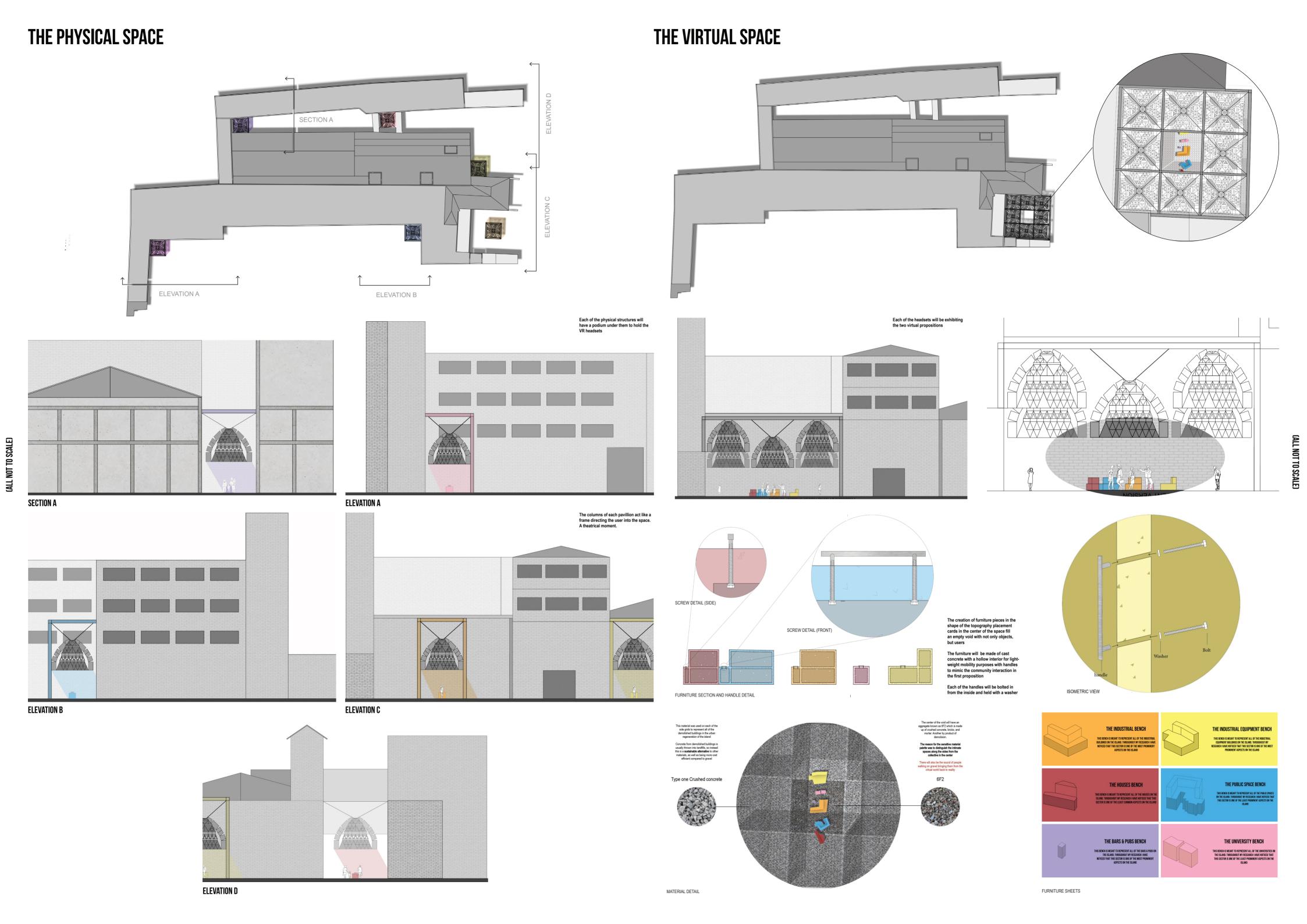
A 1:20 3D printed model of the pavilion exhibiting the construction process, using aluminum wire to represent tension cables cut at a 45 degree angle in order to stabilize as well as fish wire to attach each face and suspend the structure. The suspension of the structure represent how there are no walls and boundaries to limit the community from forming their own urban landscape, liberating the ground and creating an inviting environment











COMMUNITY AND THE VERNACULAR: THE PHYSICAL AND THE VIRTUAL

Every image illustrates how the local community will engage with the space in first person, as well as navigate through the large building. Each pavilion in the physical world will be suspended across the factory as separate entities to represent how the communities felt disregarded in the urban regeneration of the island, all exhibited through a story line in the first person in the eyes of a local. Under every pavilion is a headset that will exhibit the virtual space, as well as the interaction that was present in proposition one

In the virtual world also known as the united pavilion, will be suspended together in the east void of the artiach, celebrating the importance of collaboration, especially in design to help represent the capabilities of the community to inform and transform its topography. The virtual reality experience is not only for people who would visit the actual space, but could be shared with anyone who has a device to bridge the gap between the near and far



PAVILLION 3/6
THE INDUSTRIAL PAVILLION

COMMUNITY AND THE VERNACULAR IS A PROJECT ABOUT HOW TO REVITALIZE THE CONNECTION BETWEEN PEOPLE AND SPACE IN AN EFFECTIVE WAY THROUGH BOTH A PHYSICAL AND VIRTUAL WORLD. PEOPLE IN TODAYS SOCIETY ARE CONSIDERED INERT CONSUMERS THAT ONLY USE THE SPACES THAT THEY INHABIT BUT ARE NOT ACTUALLY PART OF THE PROCESS. THROUGH MY RESEARCH I NOTICED THAT THE LOCAL COMMUNITY FELT DISREGARDED IN THE URBAN REGNERATION OF ZORATZAURRE, BUT BY ACKNOWLEDGING THEIR CAPABILITIES AS PART OF ITS VERNACULAR WILL HELP INFORM A SUSTAINABLE URBAN LANDSCAPE.

THE COMPLEX PAVILLION REPRESENTS HOW EVERYTHING IN THE VIRTUAL WORLD IS MADE UP OF MICROSCOPIC POLYGONS AND TRIANGLES, JUXTAPOSED BY THE SHAPE OF AN ORGANIC STRUCTURE INSPIRED BY THE ORIENTATION OF THE SUN AT DIFFERENT INTERVALS OF THE DAY. THIS REPRESENTS THE BRIDGE BETWEEN THE NATURAL (THE PHYSICAL WORLD) AND THE MANMADE (THE VIRTUAL WORLD).

THE STRUCTURE IS MADE OF LOCALLY SOURCED STEEL TO REPRESENT HOW BILBAO WAS A LARGE ECONOMIC POWER IN THE EARLY 19TH CENTURY WITH HIGH SUCCESSES OVER MINING, SHIP BUILDING, AND INDUSTRIAL SECTIONS, UNTIL THE FALL OF THE WORLD ECONOMY IN THE MID 70S LEADING TO ITS DECLINE

EACH PAVILLION IS COLORCODED TO EXEMPLIFY A DIFFERENT PART OF THE ISLANDS TOPOGRAPHY, AND ARE SUSPENDED TO DEPICT NO DEVISIONS, WALLS, OR BOUNDARIES TO LIMIT THE COMMUNITY FROM FORMING THEIR OWN URBAN LANDSCAPE. EACH OF THE SIX PAVILLIONS ARE SUSPENDED ACROST HAS ARTHACH COOKER FACTORY, TO EMBODY HOW THE LOCALS FELT DISREGARDED IN THE URBAN DECEMBED OF THE ISLAND.

UNDER EACH PAVILLION IS A VIRTUAL WORLD THAT AWAITS FOR YOU, THE VISITOR, TO UN



TIME: 2:10 PM



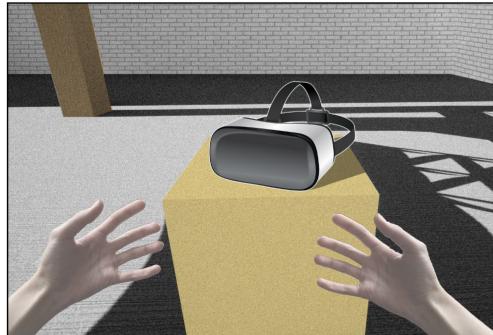
AS I WAS TAKING A STROLL AROUND ZORATZAURRE, I SPOTTED AN UNUSUAL PAVILLION IN THE ABANDONED COOKIE FACTORY SO I DECIDED TO EXPLORE.





OH WOW, I FEEL LIKE UPCLOSE THE STRUCTURE SEEMS LESS INTIMIDATING. MAYBE DUE TO THE COLORS AND THE INTERESTING SHAPE.

*THE VIRTUAL *



GREAT! THE HEADSET IS FREE LET ME SEE WHAT THIS VIRTUAL WORLD IS ALL ABOUT!

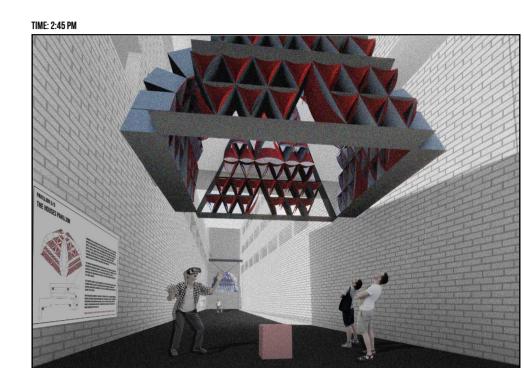


(SCAN QR CODES TO EXPERIENCE)

TIME: 2:36 PM



WOW THAT WAS SO INTERESTING, I WOULD LOVE TO SEE THE REST OF THE PAVILLIONS AND HOW PEOPLE ARE REACTING TO THE EXPERIENCE.



ITS INTERESTING TO SEE THE CONTRAST BETWEEN THE OLD AND THE NEW. I FEEL LIKE THE BUILDING HAS A PURPOSE AGAIN.

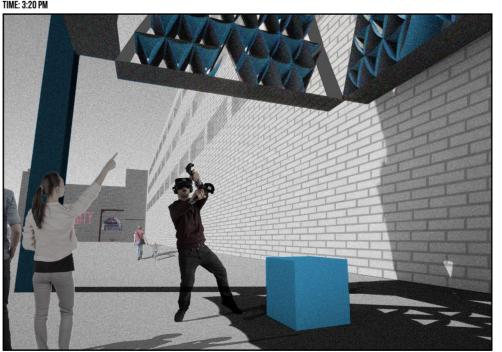
IME: 2:50 PM



I NOTICED PEOPLE OF ALL AGES WALKING AROUND, ITS NICE TO SEE THE COMMUNITY UNITE TOGETHER HERE.

ON THE OTHER SIDE OF THE BUILDING I ENCOUNTERED THE PUBLIC SPACE PAVILLION. WHICH IS SOMETHING I BELIEVE IS LACKING ON THE ISLAND SO FAR.

ME. 2.20 DM



I FIND IT QUITE FASCINATING HOW THE TRIANGLES REFLECT ONTO THE GROUND. OH LOOK! THE FINAL PAVILLION IS RIGHT THERE!

TIME: 3:30 PM

BESIDES THE HUGE SIGNS, I LIKE HOW THE COLUMNS ARE ALSO COLORED. I FEEL LIKE IT ACTS LIKE A FRAME THAT PULLS ME IN, VERY THEATRICAL.

 \star one of multiple scenarios to experience the space. There is no specified order \star

