

# EDUARDO CHAMORRO

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ARCHITECT  
DESIGNER  
MAKER

un mercado en colaboración

DO IT YOURSELF

EL DISTRITO LA LATINA, MADRID

analisis

arquitectura

construcción

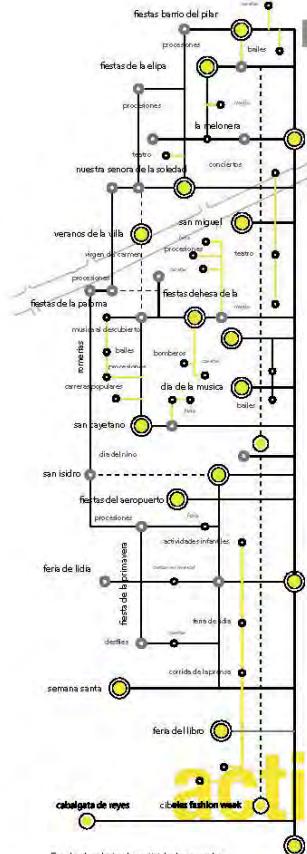
estructuras

instalaciones

sostenibilidad

# Final Thesis-Colaborative architecture

The subject of the thesis is about to create a transformable space that adapts to each new situation in the old district of Madrid as rehabilitation plan of the old preexisting market "Mercado de la Cebada". It explores how urban collectives can adapt a building to the changing needs along time. Half urbanism, half architecture, the building helps to recover the spoilt neighborhood with urban strategies



## LA LATINA UN ESTILO DE VIDA



El estudio de los espacios y los efectos socios del medio geográfico, construido o no construido (para crea situación), en función de su influencia directa sobre el comportamiento afectivo de las individuos?



Guy Debord.



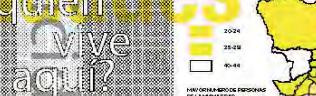
INTERPRETACIÓN  
HISTÓRICA Y ARQUITECTÓNICA



HISTÓRICO-CULTURAL  
CICLOS SOCIALES



SOCIAL CIVIL  
COMERCIAL



ACTIVIDAD Y VIDA  
ECONOMICA



QUEMOS AZUCAR  
EN EL MERCADO



LA POBLACION  
CONVERGENCIA



LA POBLACION  
ACTIVAS



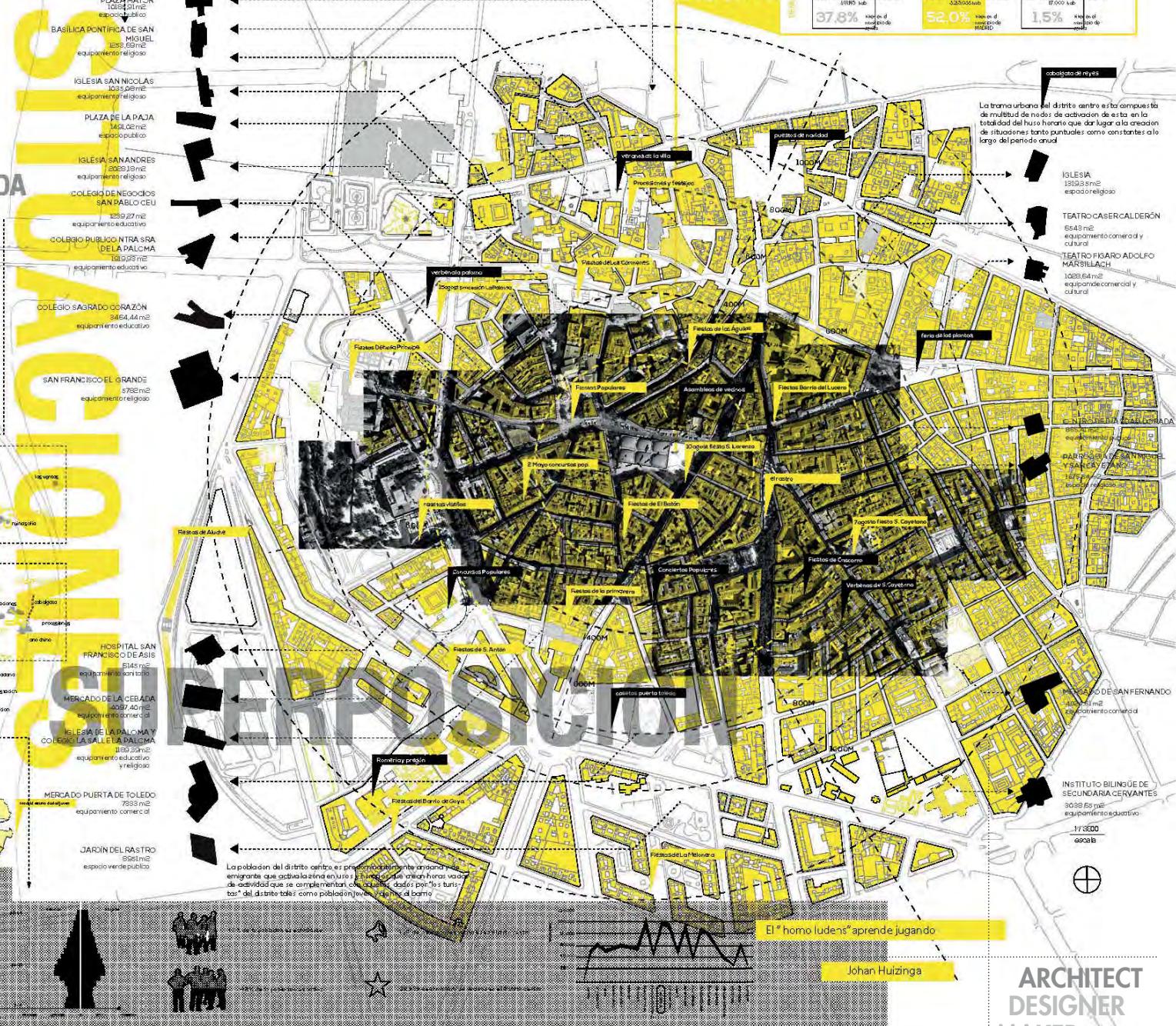
LA POBLACION  
SOCIAL



LA POBLACION  
CULTURAL



LA POBLACION  
ECONOMICA



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DO IT YOURSELF

walls structures construction structures installations sustainability

SITUACION

# Final Thesis-Colaborative architecture

**VIVA FIESTAS**

**ELEVATION MODULES**

**MODULAR SIDINGS**

**TRUSS SYSTEM**

**FENCE SUPPORT**

**ARCHITECT DESIGNER MAKER**

**EDUARDO CHAMORRO MARTIN** Convocatoria Julio 2014 **PROYECTO FIN DE CARRERA**

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• DO IT YOURSELF

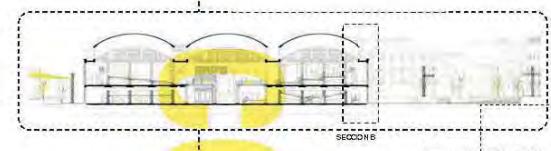
• análisis • arquitectura • construcción • estructura • instalaciones • sostenibilidad

CONSTRUCCIÓN / FACHADA

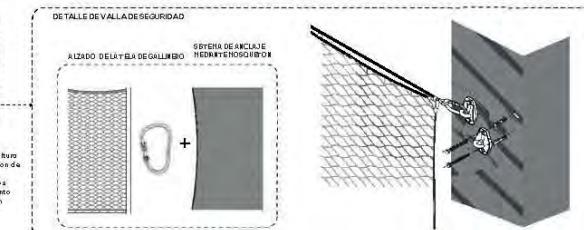
# Final Thesis-Colaborative architecture

El sistema de fachadas móviles del proyecto tiene el sistema de truss estructural H160 con un ancho de 1,00 x 2,20 que mediante el diseño de un nodo tridimensional permite la rotación de los paneles móviles en su eje longitudinal y transversal así como la apertura y cierre de las juntas blindadas permitiendo así un multiplicador de configuraciones adaptándose al uso.

Se instalarán paneles blindados de seguridad para su protección exterior así como se dispondrá de un legendre de valla de seguridad de 1,80 m de altura y 1,20 m de ancho que protegerá el espacio interior que ocupa más de 0,5 x 0,2 ancho dividido en tres secciones y protegida con blindamiento y aislamiento.

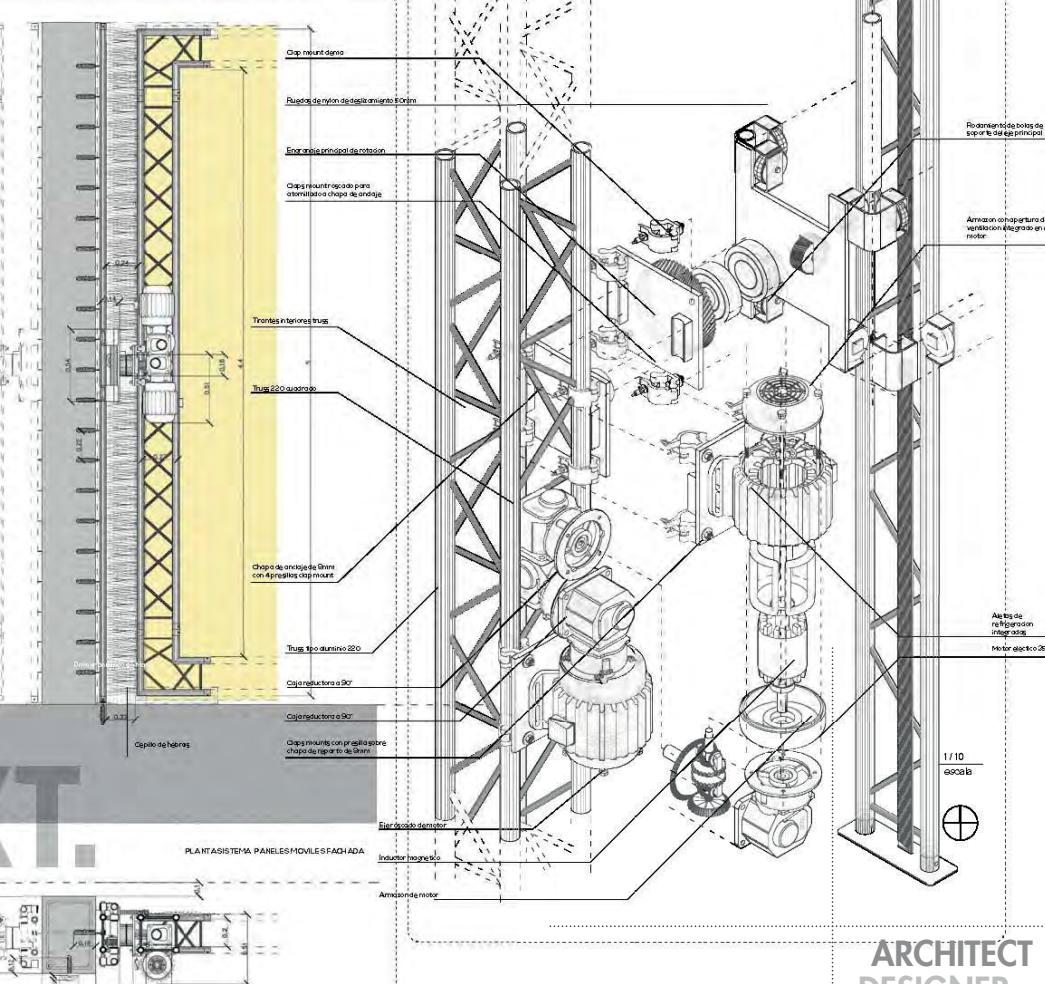
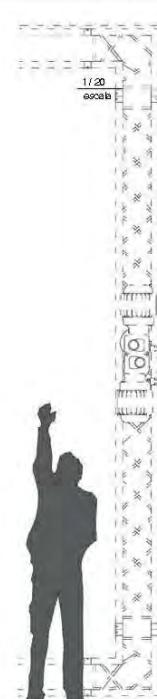
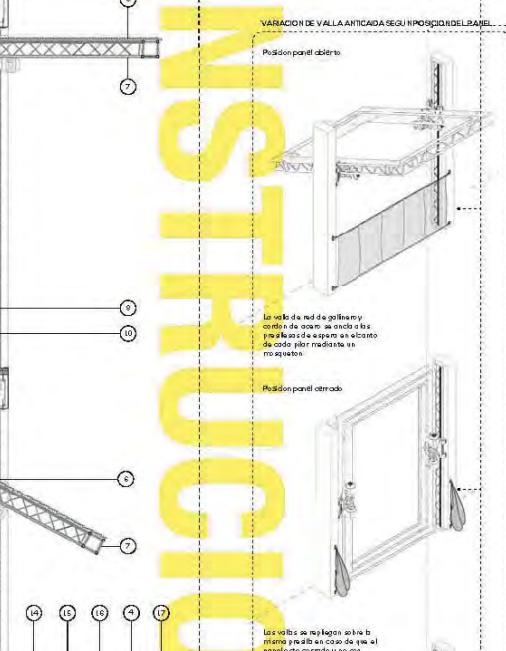
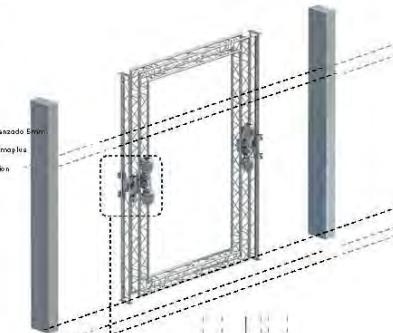


# COLABORACIÓN PANEL EXT.



- 1 Valla acero galvanizado
- 2 Vidrio blindado con espesor 5 mm
- 3 Cerradura Tresillo M16x1,5
- 4 Hormigón aligerado blindado
- 5 Truss H160 x 200 longitud
- 6 Lona recubierta de caucho 90 g/m<sup>2</sup>
- 7 Truss crecido H160 x 220
- 8 Argolla espuma 90x45mm
- 9 Foco reflector de 200W
- 10 Huella metálica con cordón de acero trazado Elemento
- 11 Suelo hidráulico para fábrica de ladrillo Hormigón
- 12 Riel de potencia 0,2mm extensión de acción
- 13 Agujero de vidrio 100x100
- 14 Escalera de piedras
- 15 Cojinetes de desgaste con ruedas Ulma
- 16 Ayuda de arrastre 100x100 mm
- 17 Gruetell Desarrollado
- 18 Durante la instalación de madera
- 19 Muro portante 600 mm
- 20 Llaves Impresión libertad Desarrolladas y fabricadas en metal

## NUCLEO MECANICO MÓVIL DE FACHADA

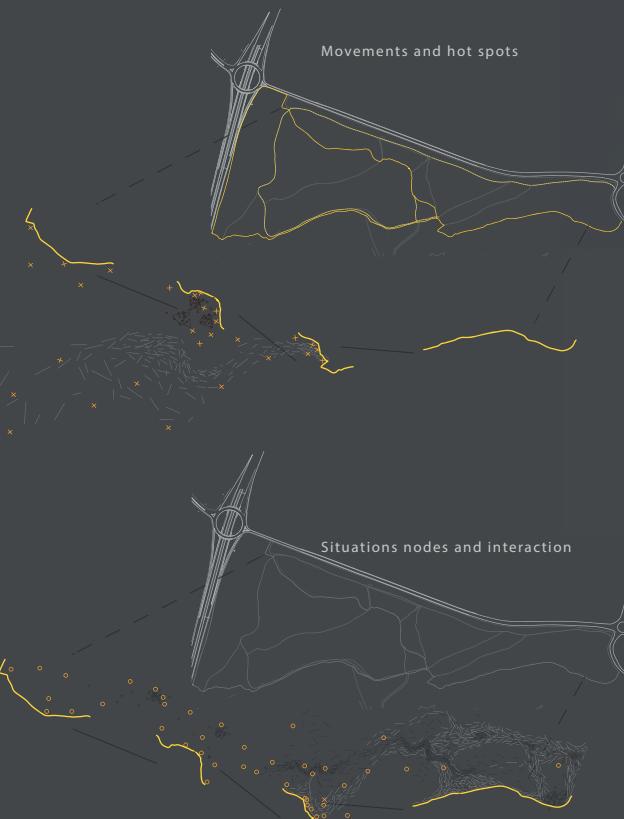


# environmental sustainability

To propose any space is necessary an exhaustive analysis of the surroundings, specially when that space is a landfill that seems empty on a superficial look but it is full of environment inputs.

## Getting the hidden information

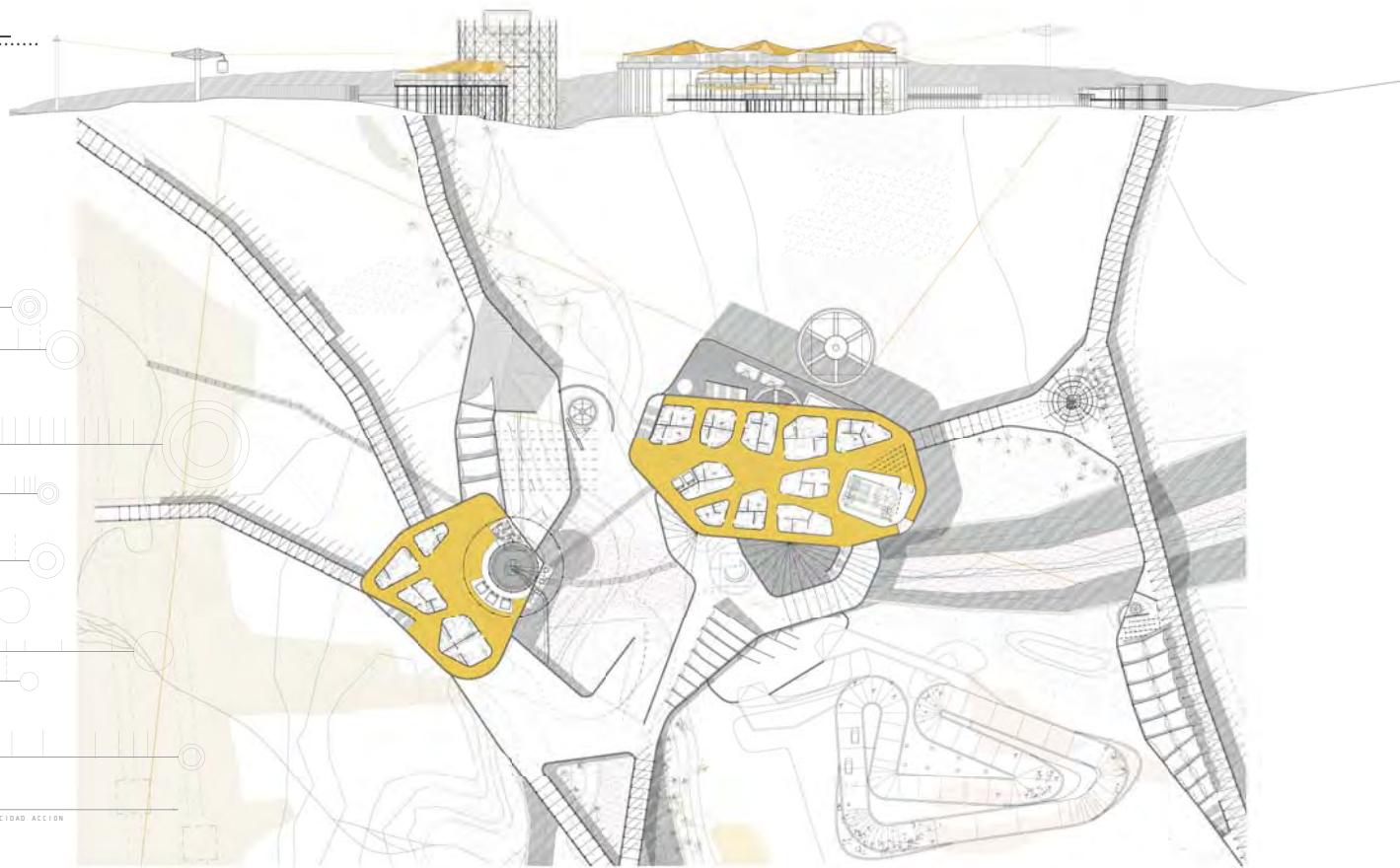
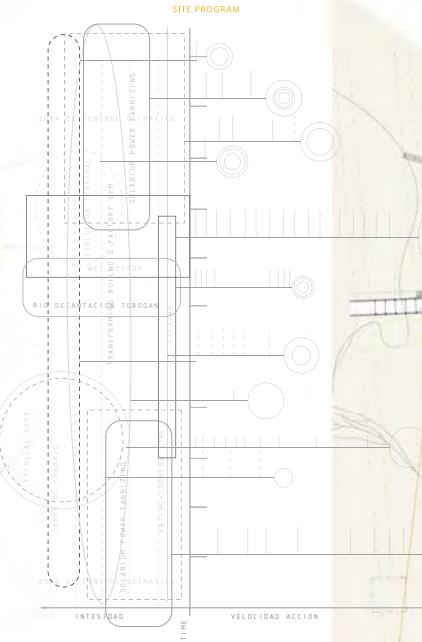
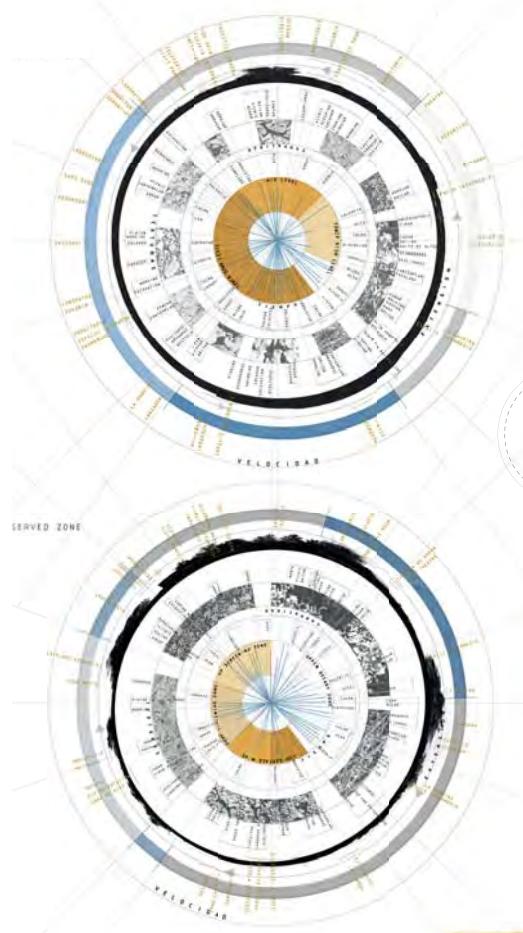
For a full understanding of the site several breakdowns were executed no only on the physical materiality but also on the intangible. Giving as result that for a correct approach on how the nodes interact between each other a Situationist interpretation on their activities and the human being was necessary.



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## environmental sustainability

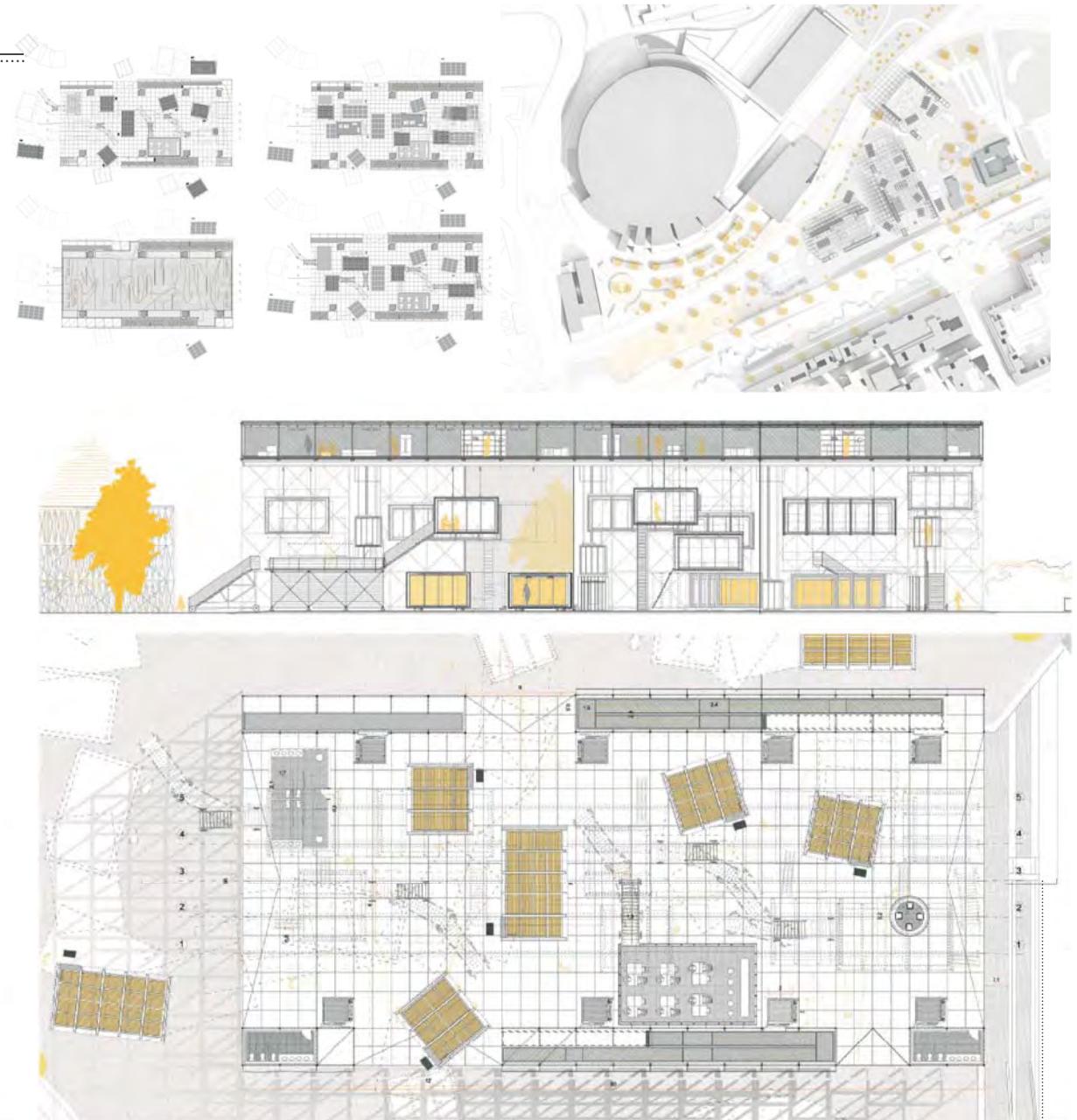
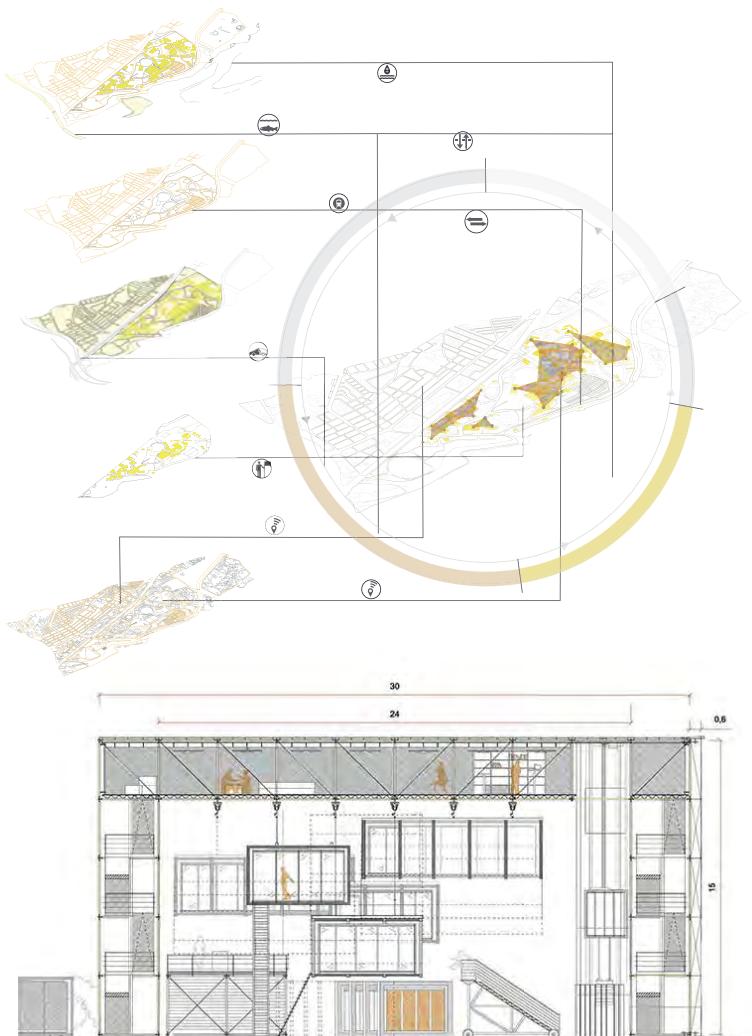
The project aims on the possibilities of landfills as zone of playground. Establishing a central core where all the games of the playground starts. Having also a small hotel and highviewpoint of the complete intervention, transforming the old space on a weekend holiday center.



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## **prefab**prefabrication technologies

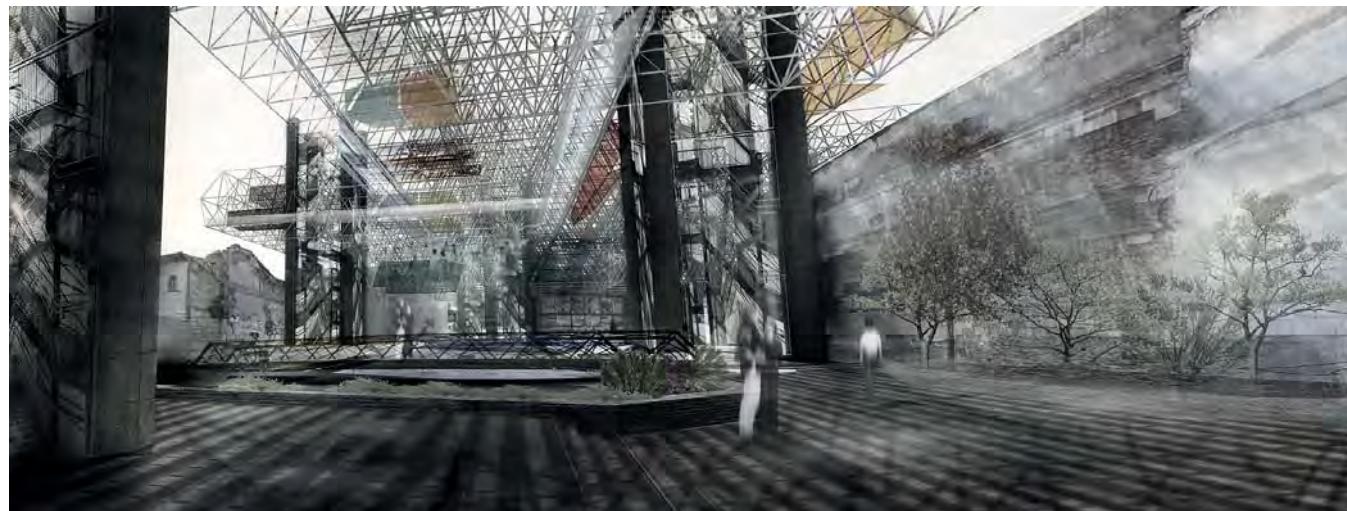
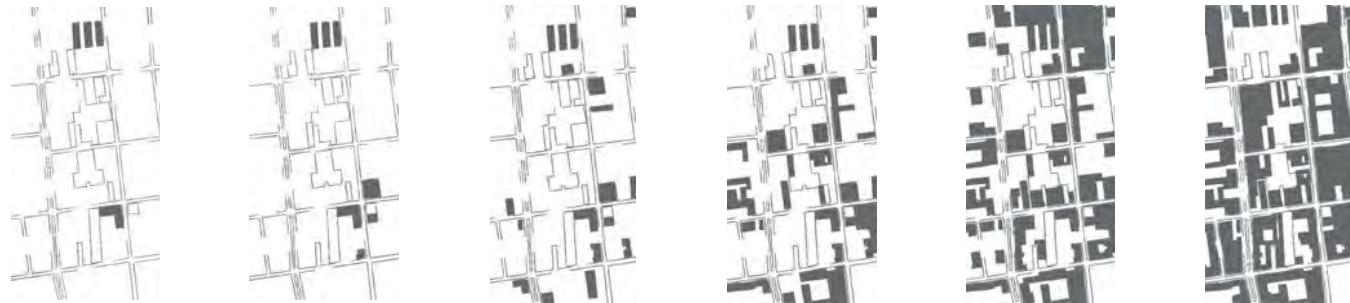
Multifunctional center for a impaired zone of Madrid where there are usually done festivities and urban markets. Using prefabricated structure of scaffold is created a wide open space where small modules hung from the structure and supported on the ground take needs of aconditioned spaces.





## spacial strategies

A big community above the city of santiago de chile who uses a modular structural system to fly above the city in a utopian form with living spaces made of shipping containers. All the living activities occur in the Interstitial platforms. With the idea of continuing with the footprint of the original plot and completing the residual spaces, a series of planes are proposed, making similar to the various planes of height of the city. In the same way the volume contains streets on a smaller scale already facing the user in which the idea of sharing free space is maintained.



## design in technology

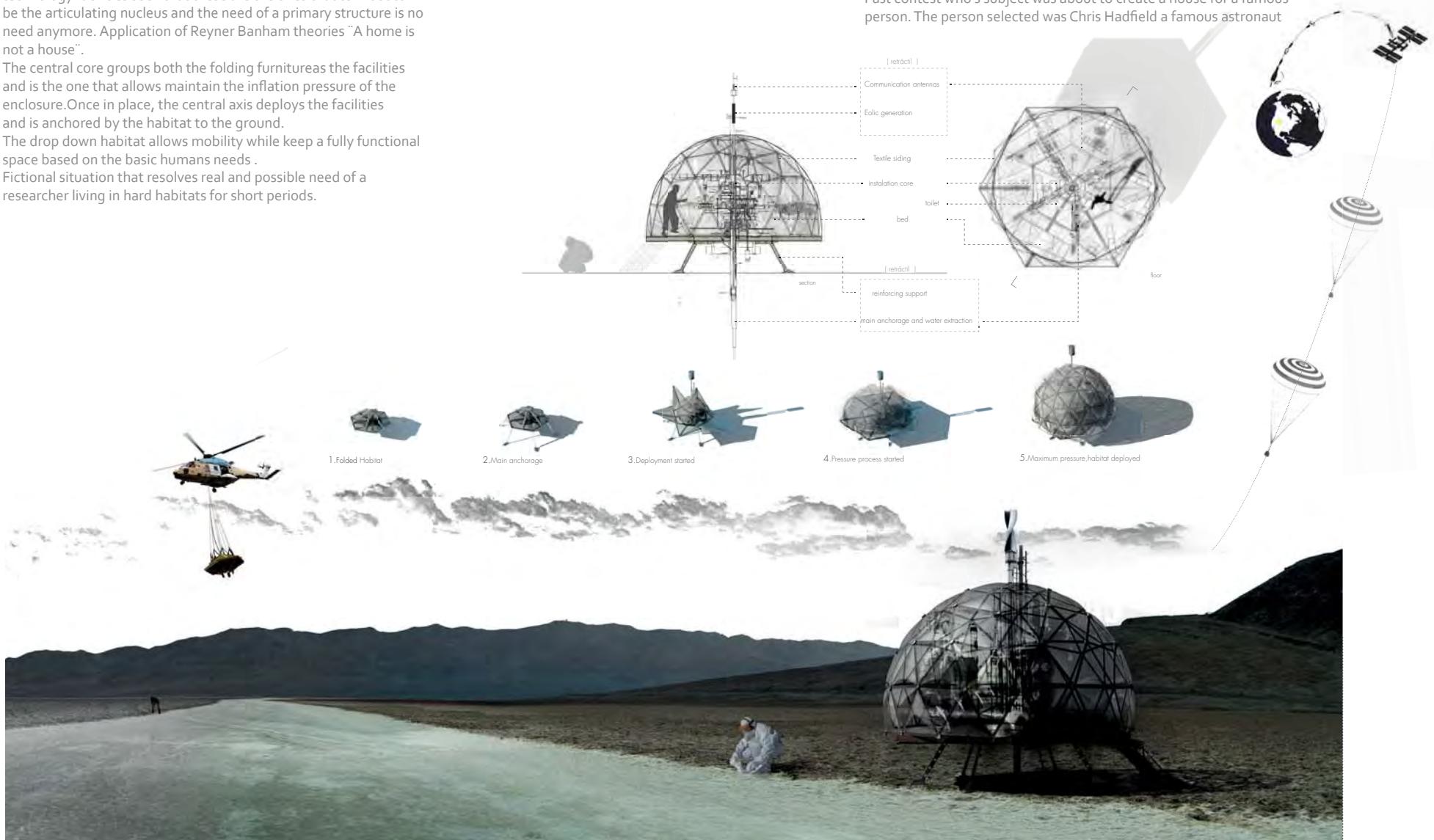
The habitat is based on the premise of having reached a level of technology facilities such that these are the ones that turn out to be the articulating nucleus and the need of a primary structure is no longer needed. Application of Reyner Banham theories "A home is not a house".

The central core groups both the folding furniture and the facilities and is the one that allows maintaining the inflation pressure of the enclosure. Once in place, the central axis deploys the facilities and is anchored by the habitat to the ground.

The drop down habitat allows mobility while keeping a fully functional space based on the basic human needs.

Fictional situation that resolves real and possible need of a researcher living in hard habitats for short periods.

Fast contest whose subject was about to create a house for a famous person. The person selected was Chris Hadfield a famous astronaut



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# FAB PAVILION

## WHAT IS

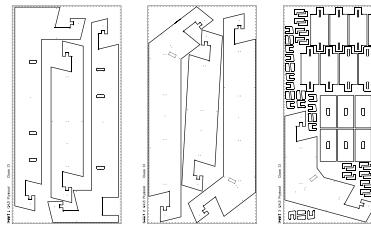
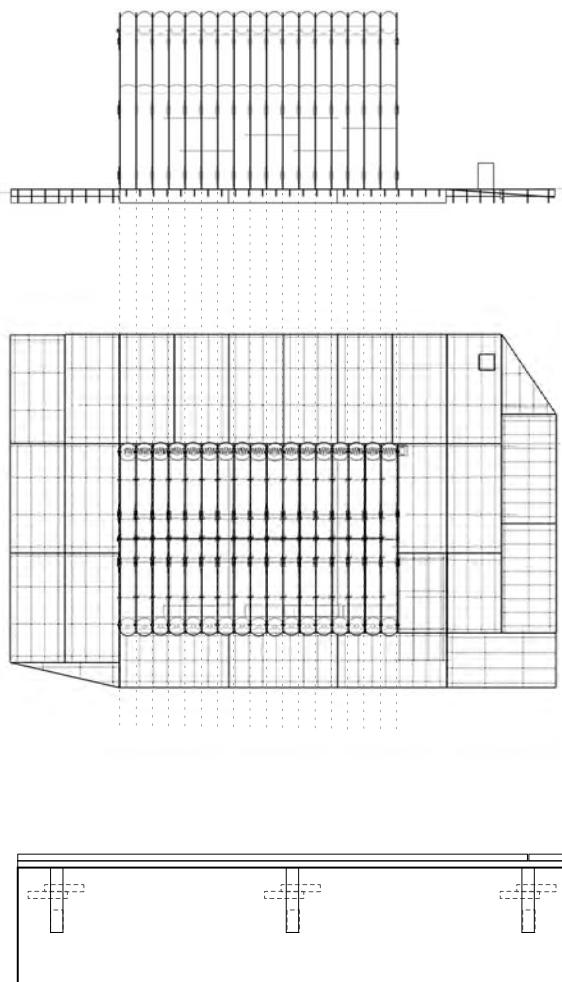
Fab Lab Seoul is presenting here a relatively inexpensive, expansive and artful alternative to investigation conventional construction and building . The system features only using fablab equipment as CNC ROUTER,LASER CUTTER,etc,using ecomaterials.

## WHY

Pavilion is a space where people can play, learn, and experience workshops and machines so they discover fablabs and makerspace community not only in theory but physically.  
Instead of using exhibit stands ,the appropriate space to make a fab showroom is to make one with Fablab tools. What better example of fablabs capabilities that the pavilion itself?

## architecture fabrication

Digital fabricated pavilion for Seoul MakerFaire with traditional Korean wood joinery. The wood represents "the real world" and the inflatable ribs "the imagination-ideas". The building was assembled in one day by a four people group. Showroom, simplicity, economy and easy construction were the key words in this project. Gross floor area of 60 square meters.



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## SEOUL DESIGN FESTA 2016

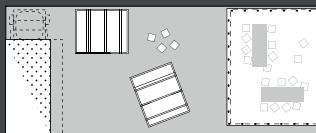
### MICRO LAB BOOTH

Modular construction-Space that evolves

One unique stand with multiple functions  
ALL-IN/ONE set

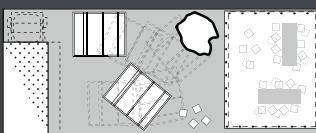
#### FESTIVAL DAY 1

Setup of all the modules and machines, cleaning of the space and initiate all the machines with samples.



#### FESTIVAL DAY 2

MID FESTIVAL  
User already come to the workshops and start to make things and assembling the



#### FESTIVAL DAY 3

FINAL FESTIVAL  
The booths moves again to show the elefab the user did and make the space wider for attending more

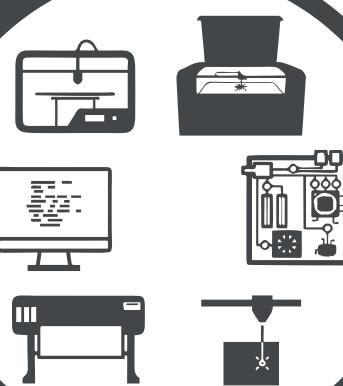


#### MODULE 1 EXHIBIT HUB

One unique stand with multiples functions  
ALL-IN-ONE set

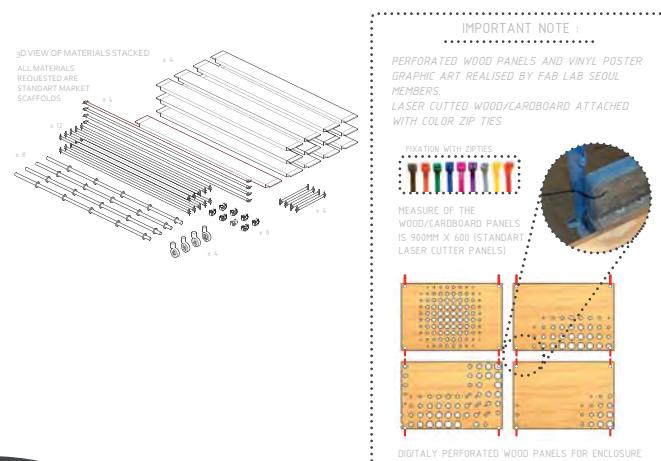
#### MODULE 2 WORK SHOP HUB

An open space only separated visually by a thin layer of polypropylene.

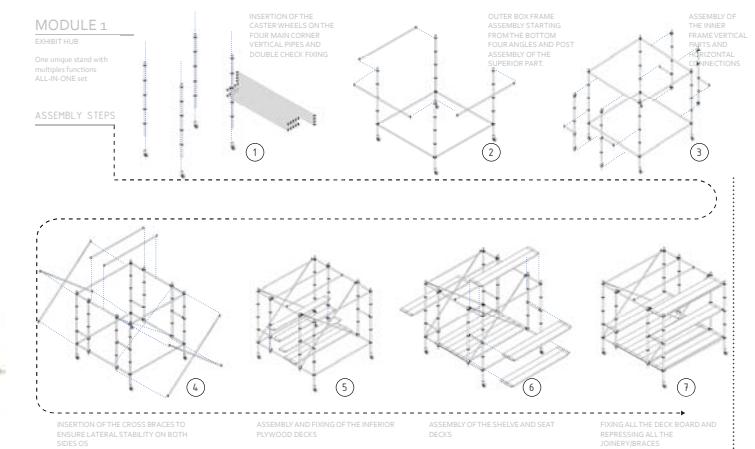
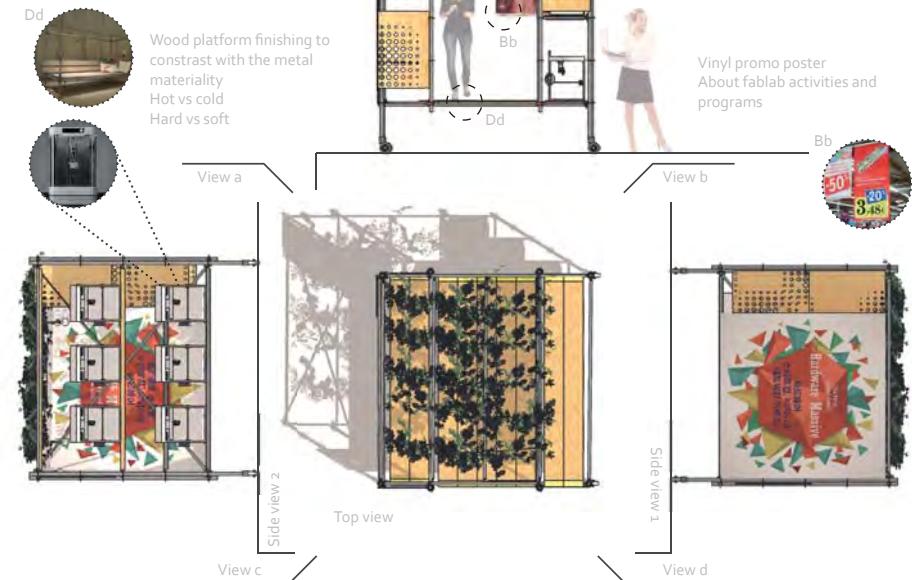


## prefabricated design

Prefabricated booth for Seoul Design Festa . Mobility of the space and machine installation as requirement give a small modular configuration result. Where the same module respond to the workshop-machines-exhibit-technical needs. Three zonifications for three different purposes. Fab Truck for giving multiple machine and tooling support. Workshop Hub for hosting big groups and all the workshop without disturbing the main exhibit space. Exhibits hubs that serve as shelves for machines and exhibit pieces as the same time as resting-working area for small groups or individuals



Pendant lighting bulb and naked wires.  
Nothing to hide, as the prototypes always show everything



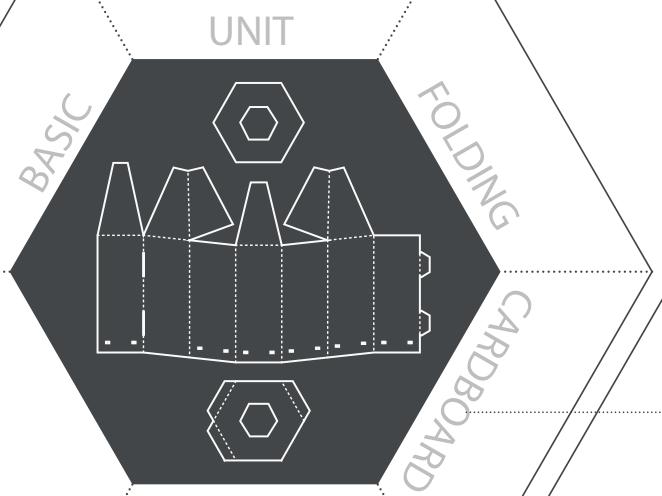
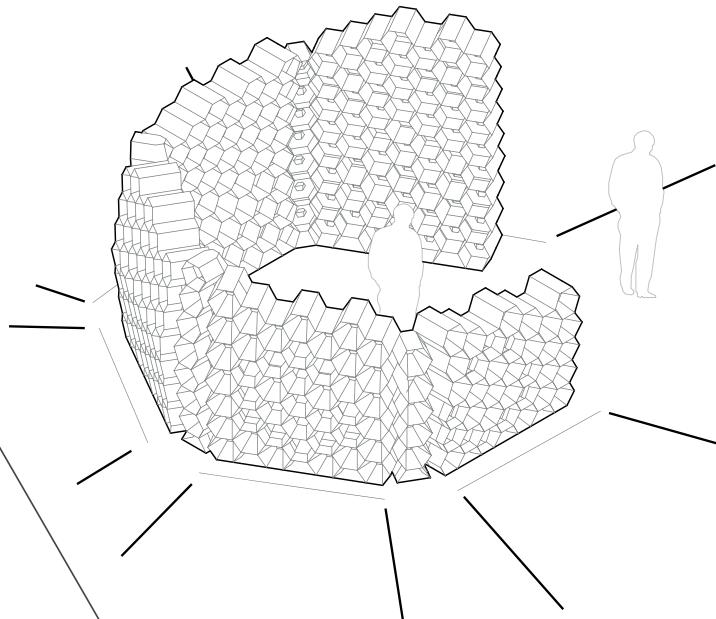
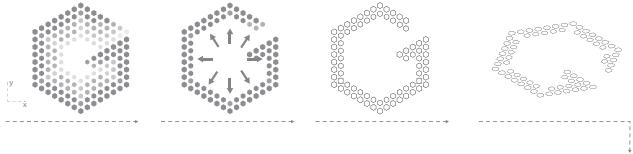
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## digital architecture

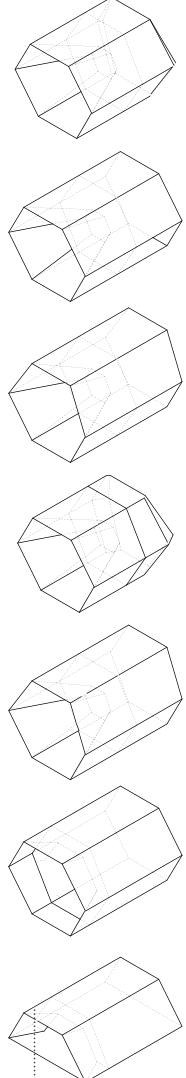
Temporary pavilion for the Global Green Growth Conference. Reinterpretation of the logo as a tridimensional shape and combining it again into a spacial opening gesture. The use of its main base shape and general one invites the visitor to come inside and around the object discovering the logo in all its manner. Election of the cardboard as main material due to its ecofriendly and renewal naturalness. All the parts were fabricated using a laser cutter



The parametric design allows the design to change and adapt to the needs of the space. Making it configurable depending on the needs. The modular system makes it easier and faster to produce reducing the waste.

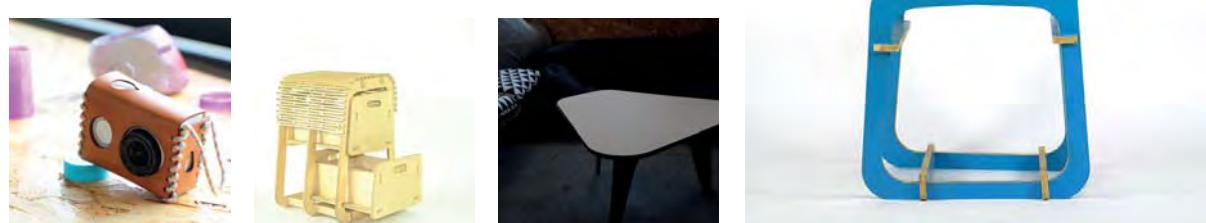
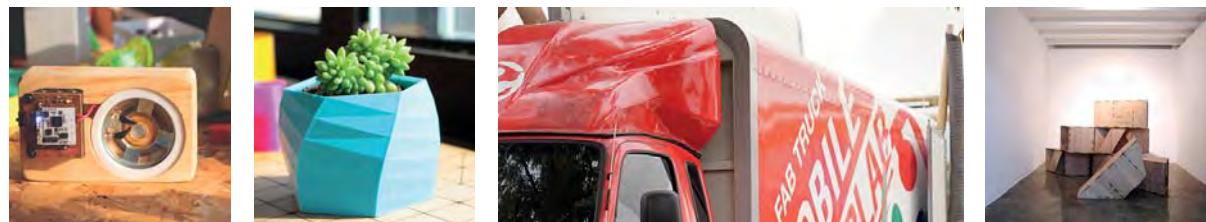


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## product design

Collection of works in collaboration with Fab Lab Seoul, DVA Architects, different museums and freelance works.  
Experimentation of the limits and possibilities of digital fabrication. Educational kits, furniture, spaces, performances and smart devices.



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