Parametric Hospital Research A model for all cases.

Luis Gotor, Architect partner at PMMT

European Healthcare Design 2019 Congress, Awards & Exhibition 17th-19th June, Royal College of Physicians, London

PMMT Forward Thinking Healthcare Architecture





Clínide

Girona

Bechar Hospital-Algeria

Health Center in Oviedo-Spain



Hospital Clinic-Barcelona

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Fertility clinic-Barcelona

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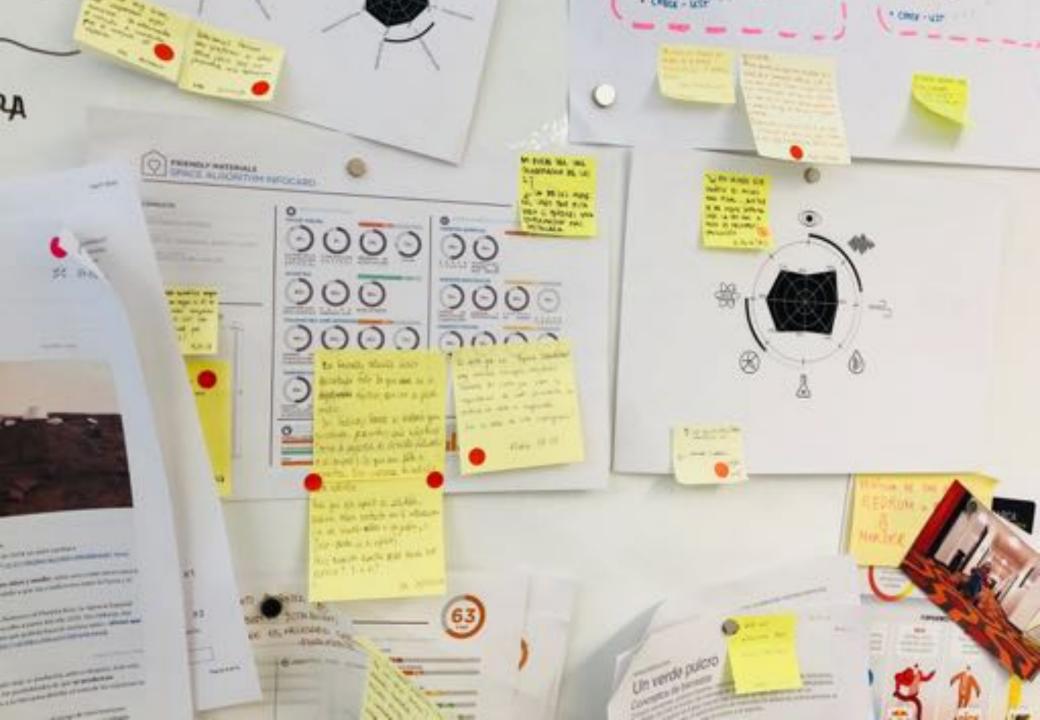
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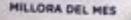


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PMMT Innovations:



FSB HANDLE



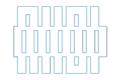
SMART HOSPITAL







FLUID HOSPITAL



PARAMETRIC HOSPITAL











PARAMETRIC WINDOW





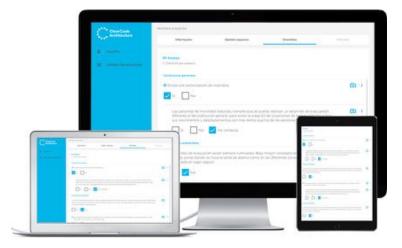


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A place for all, a place Clear Code



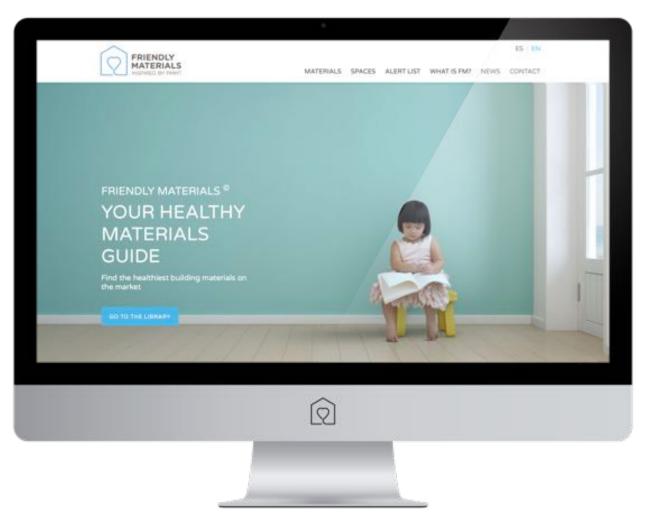












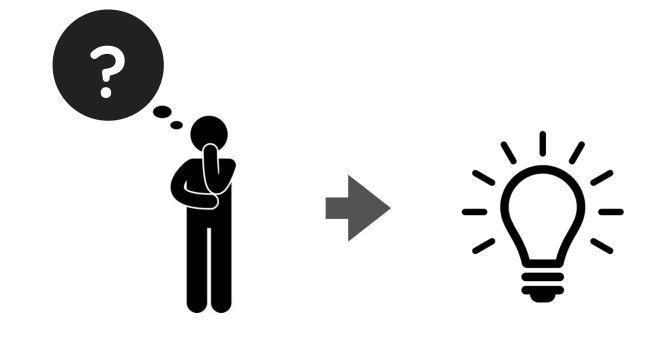


PARAMETRIC HOSPITAL

PATENT

– P201331795 MAKIBER/PMMT











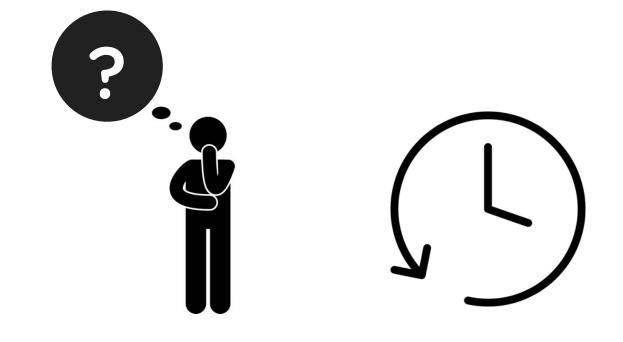
















HOW CAN WE BUILT HOSPITALS IN THE SHORTEST TIME POSSIBLE?

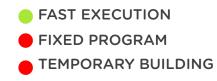


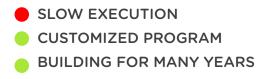
MILITARY CAMP HOSPITAL



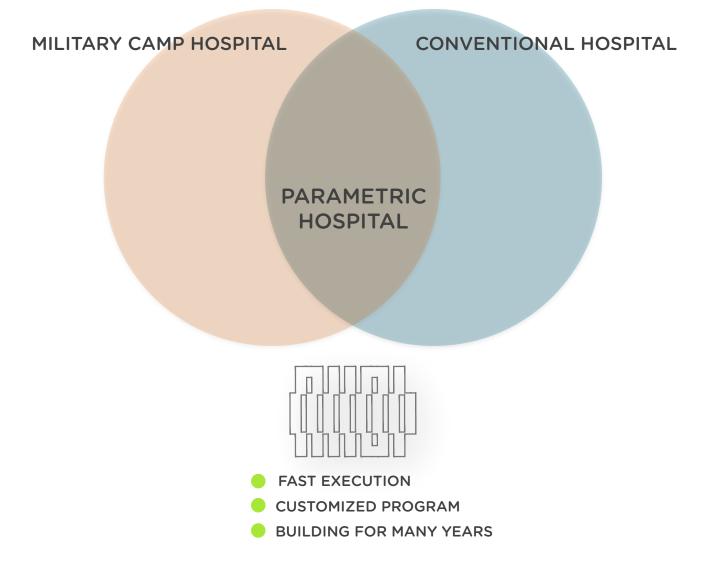
CONVENTIONAL HOSPITAL







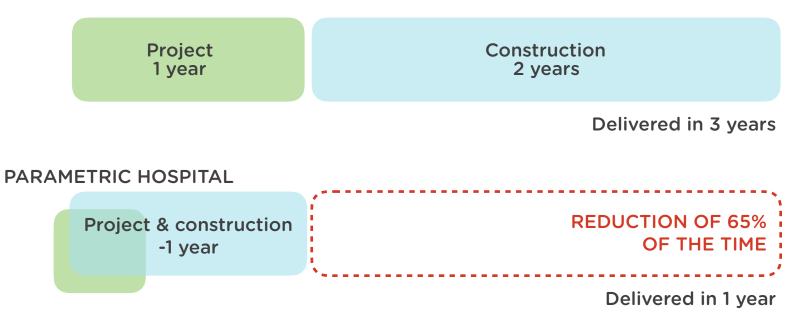




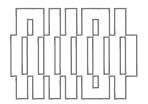


THE PARAMETRIC HOSPITALS NEED TO NOTABLY REDUCE THE TIME OF DESIGN, CONSTRUCTION AND EQUIPMENT USED FOR CONVENTIONAL HOSPITALS.

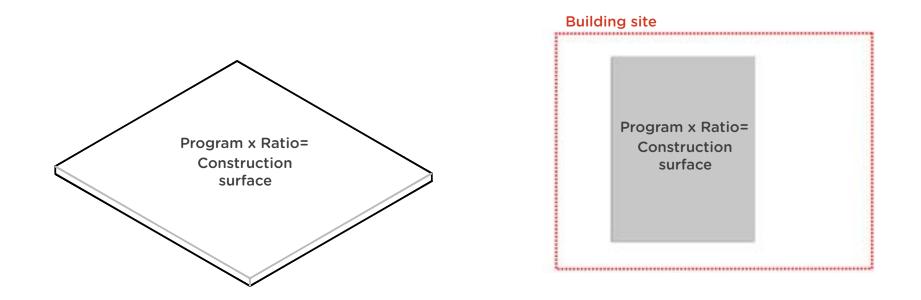
CONVENTIONAL HOSPITAL







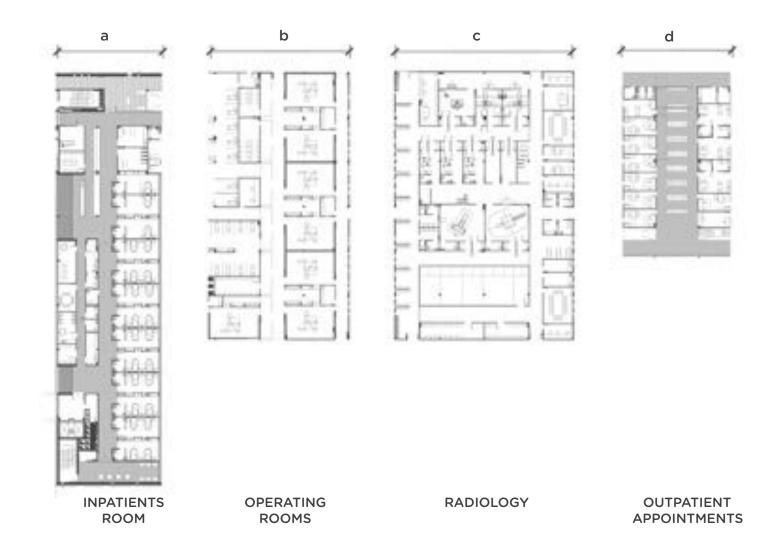
HOW IS THIS ACHIEVED?



EVERY ARCHITECTURAL PROJECT STARTS WITH A BUILDING SITE AND A SURFACE TO BUILD ON

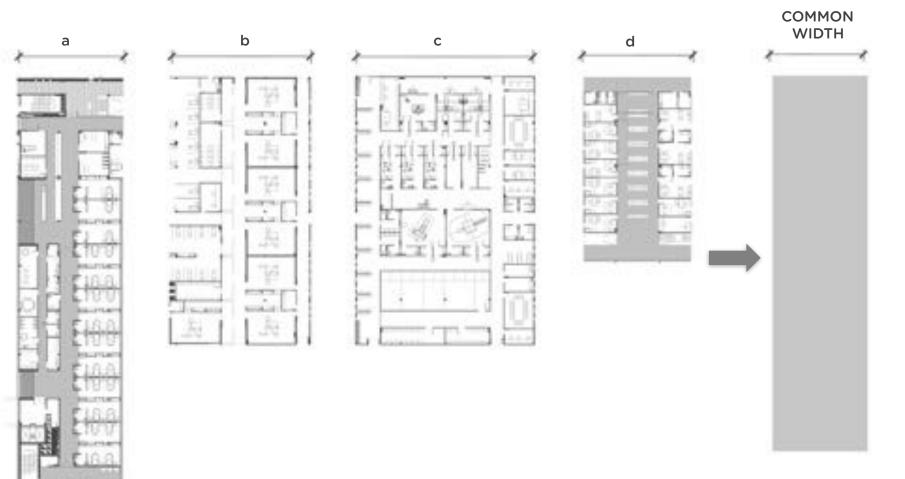


NORMALLY, EACH HOSPITAL AREA HAS A WIDTH BASED ON ITS DISTRIBUTION AND PURPOSE

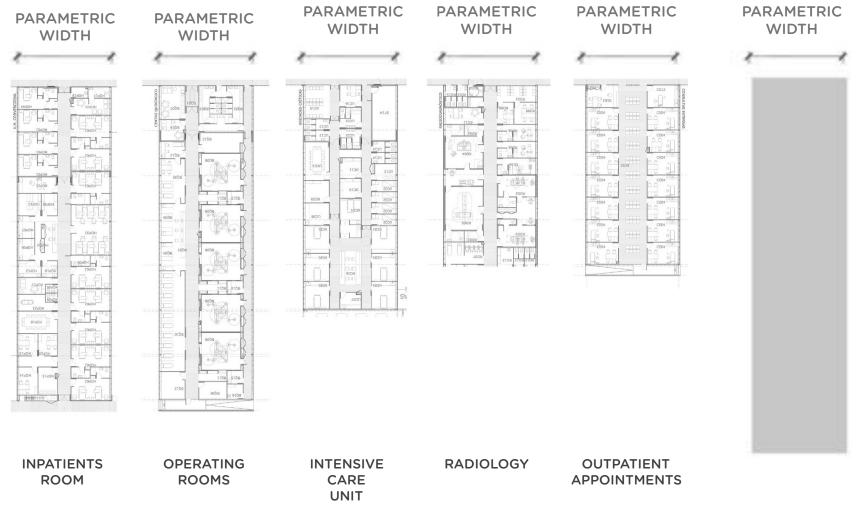




WE LOOK FOR A SUITABLE WIDTH THAT ALLOWS US TO PLACE ANY HOSPITAL SERVICE



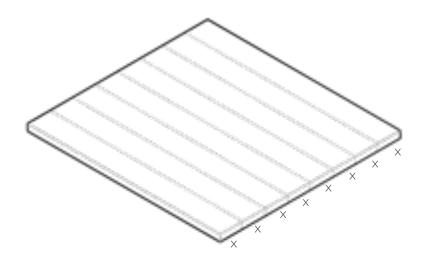
WE LOOK FOR A SUITABLE WIDTH THAT ALLOWS US TO PLACE ANY HOSPITAL SERVICE

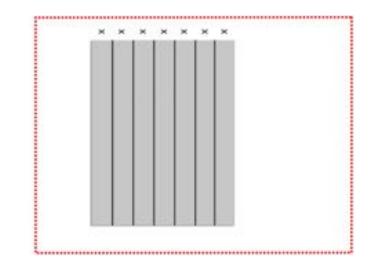


FORWARD THINKING HEALTHCARE ARCHITECTURE



DIVISIONS ACCORDING TO PARAMETRIC WIDTH



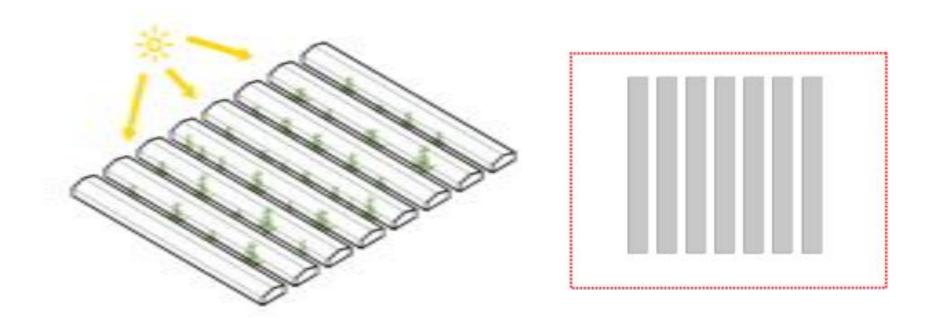


ONCE THE PARAMETRIC WIDTH IS DETERMINED, WE CAN DIVIDE THE TOTAL SURFACE OF THE HOSPITAL ACCORDING TO THIS MODULE

NATURAL ENVIRONMENT AND LIGHT

HEALTHCARE

ARCHITECTURE



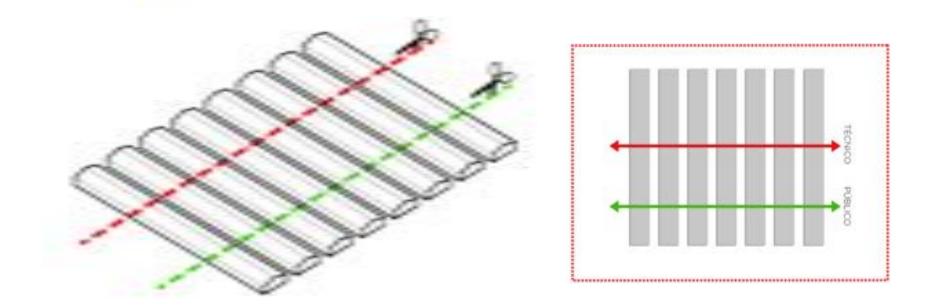
THE BLOCKS ARE SEPARATED GENERATING PATIOS TO GUARANTEE OPTIMAL LIGHTING AND CREATING A NATURAL ENVIRONMENT





[HINKING

HEALTHCARE ARCHITECTURE

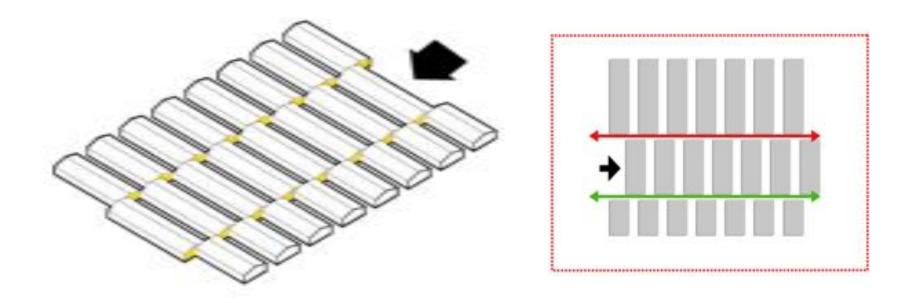


THE BLOCKS ARE CONNECTED BY TWO MAIN CORRIDORS, ONE PUBLIC AND THE OTHER TECHNICAL



PARAMETRIC BLOCKS ARE SHIFTED

HEALTHCARE

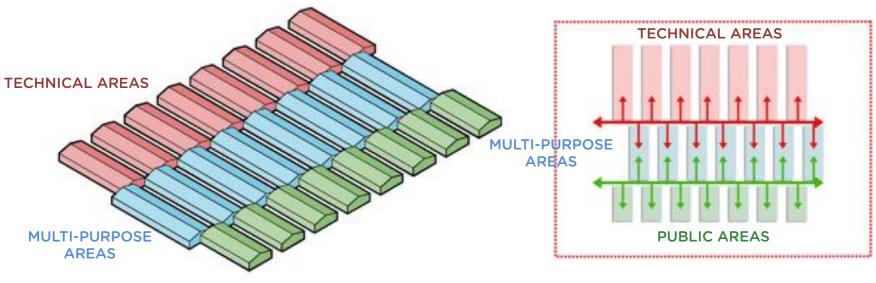


THE CENTRAL BLOCKS ARE SHIFTED TO GIVE HOMOGENEOUS ILLUMINATION TO THE MAIN CORRIDORS AND TO AVOID SERVICE DOORS FACING EACH OTHER





HOW ARE HOSPITAL SERVICES ORGANIZED?

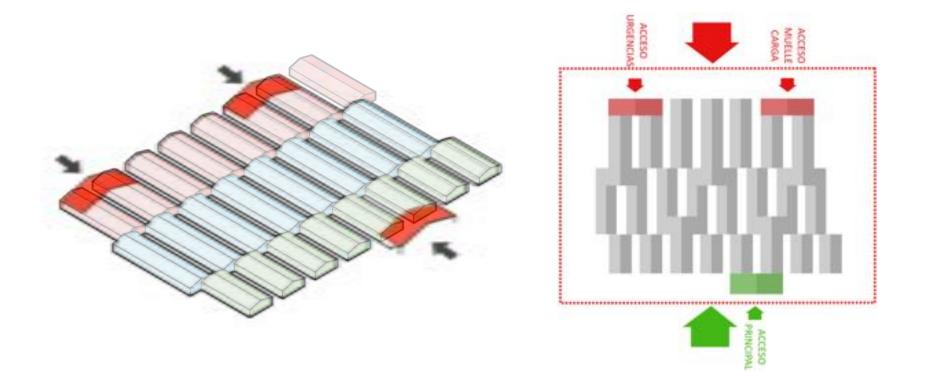


PUBLIC AREAS

THE HOSPITAL IS DIVIDED INTO THREE AREAS: ON ONE SIDE THERE IS AN AREA EXCLUSIVELY FOR TECHNICAL PURPOSES, AND THE OTHER IS EXCLUSIVELY FOR PUBLIC PURPOSES. HOWEVER, THE AREA IN THE MIDDLE CAN BE USED FOR BOTH TECHNICAL OR PUBLIC, DEPENDING ON WHAT IS NEEDED.



MAIN ENTRANCES



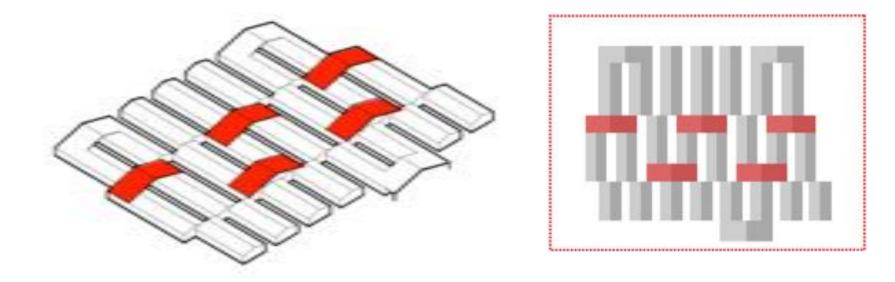
THE ROOFS OF VARIOUS BLOCKS ARE EXTENDED HIGHER TO GENERATE THE MAIN ENTRANCES





FACILITIES



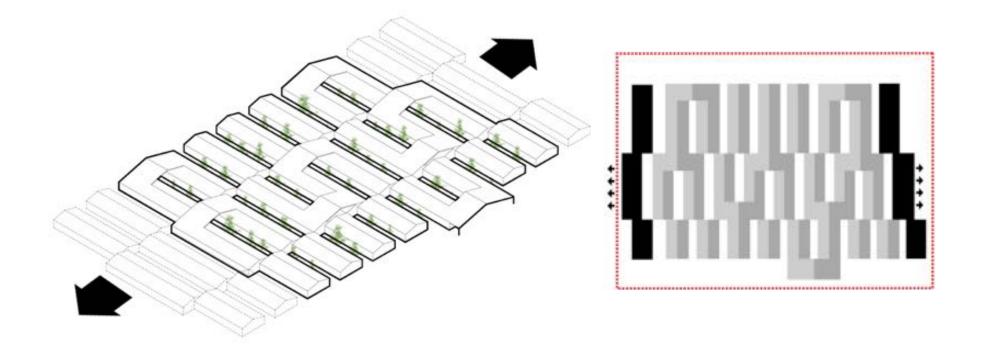


THE ROOFS OF VARIOUS BLOCKS ARE EXTENDED HIGHER TO CREATE FLOORS FOR FACILITIES





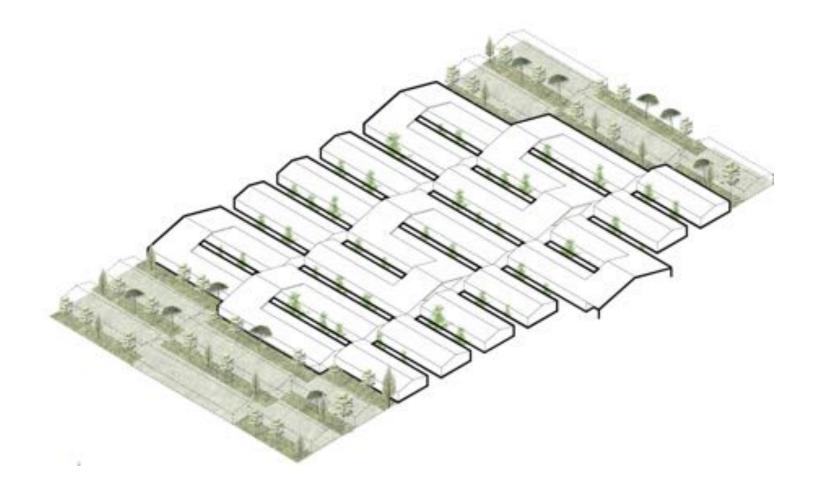




THE TYPOLOGICAL CONFIGURATION OF THIS DESIGN MAKES IT EASY FOR ADDITIONAL BLOCKS TO BE ADDED AND CORRIDORS EXTENDED

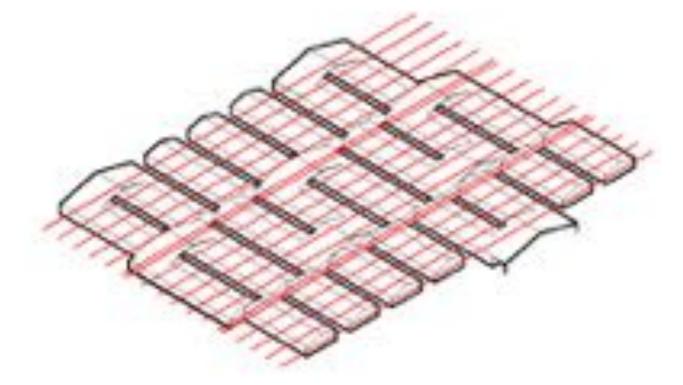








WE CREATE DIFFERENT STRATEGIES TO START CONSTRUCTION WHILE STILL DESIGNING SPACES



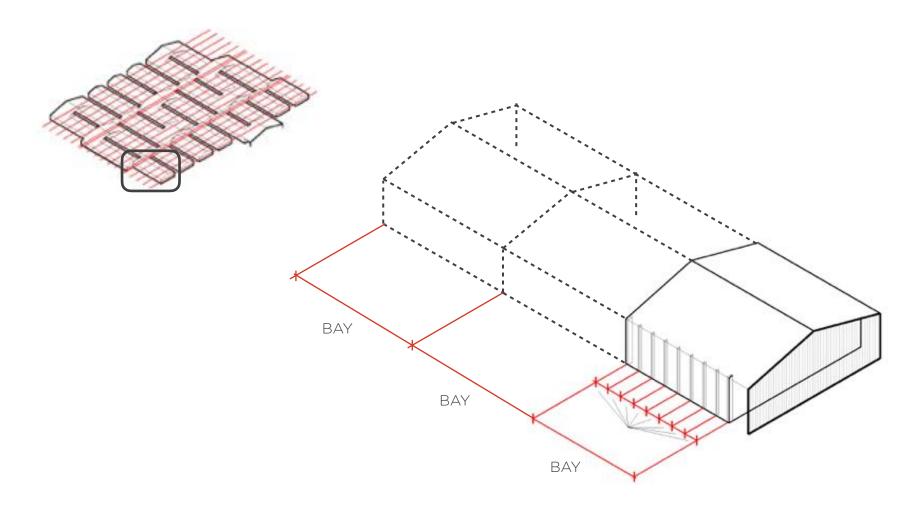
AN ORGANIZED AND REPEATED STRUCTURE



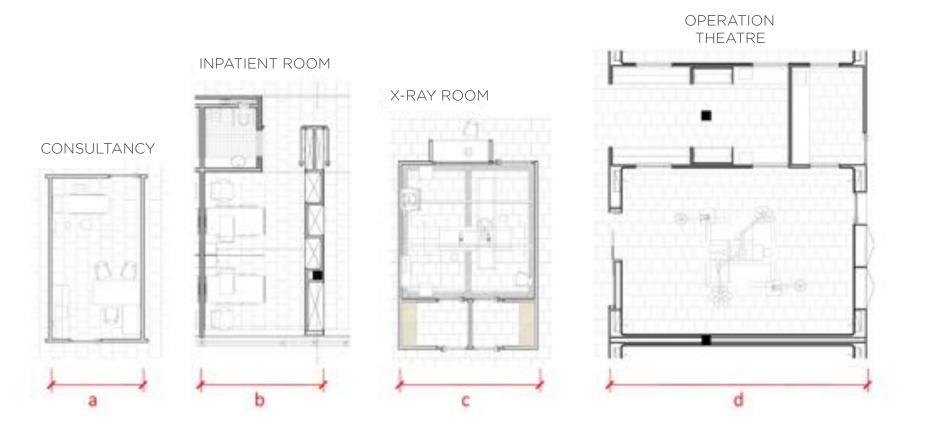




THE FACADES OF EACH BLOCK ARE MODULATED TO HOLD ALL THE HOSPITAL SPACES.

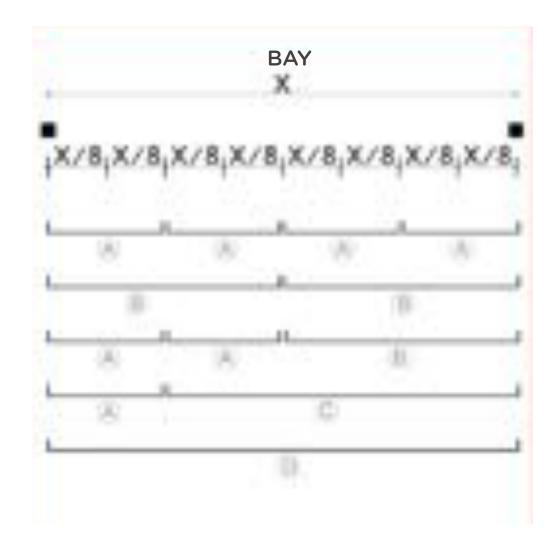


EACH HOSPITAL SPACE HAS A PARTICULAR WIDTH DEPENDING ON WHAT IT HINKING IS USED FOR



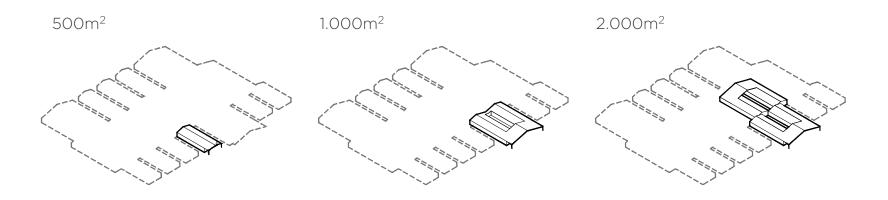
LOOKING FOR A WIDTH THAT ALLOWS THE MODULATION OF THE STRUCTURE AND THE FACADE WINDOWS TO GUARANTEE THE CORRECT DIMENSIONING OF THE ROOM

PMMT Forward Thinking Healthcare architecture



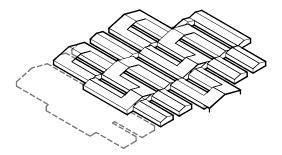


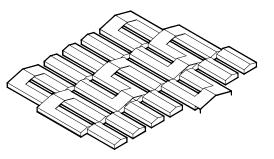


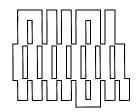


10.000m²

15.000m²







PUYO HOSPITAL, ECUADOR 14.000 M2



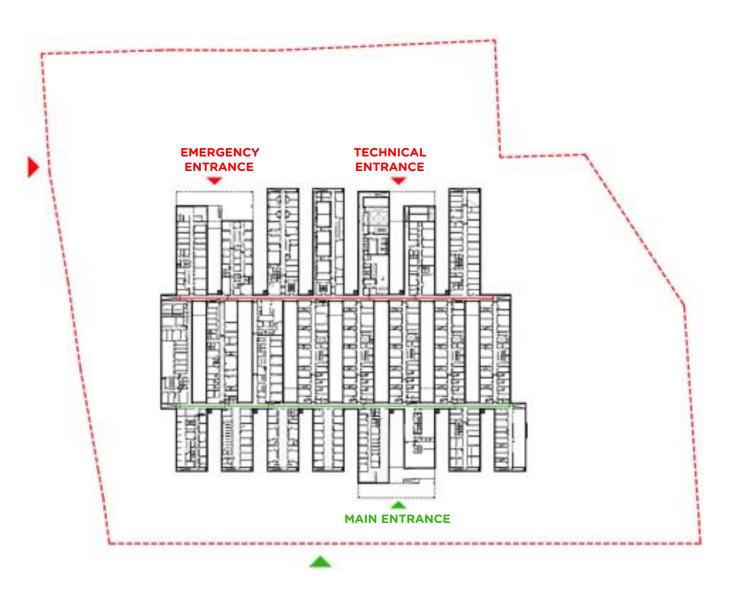
FAD Award 2014



BIAU Award 2014



ArchDaily Best Building of the World 2014



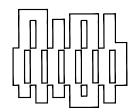










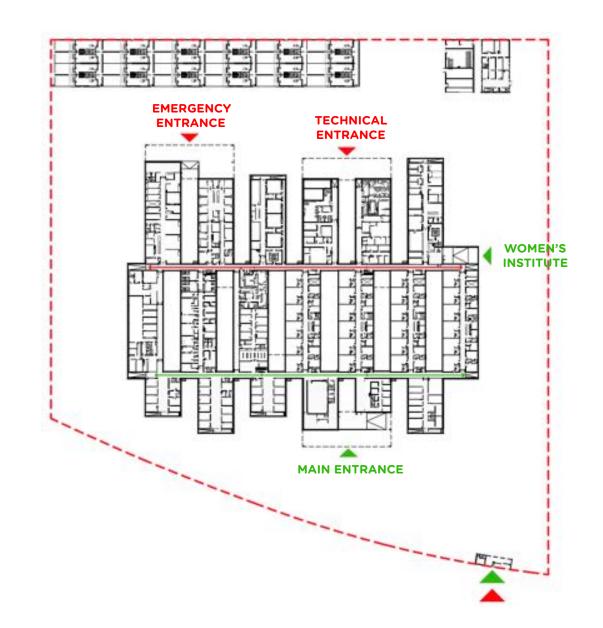


MENONGUE HOSPITAL, ANGOLA 11.000 M2



Honorable Mention of International Architecture of the Superior Council of the College of Architects of Spain

FORWARD THINKING HEALTHCARE ARCHITECTURE

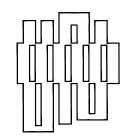






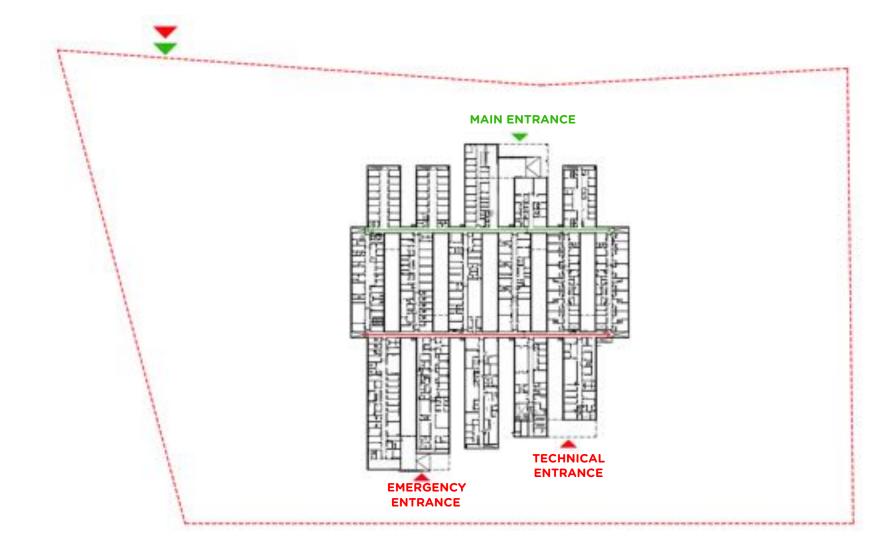






MALABO HOSPITAL, EQUATORIAL GUINEA 10.000 M2



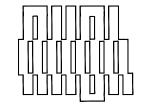




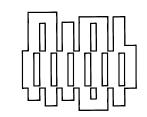




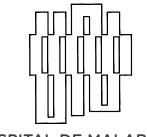




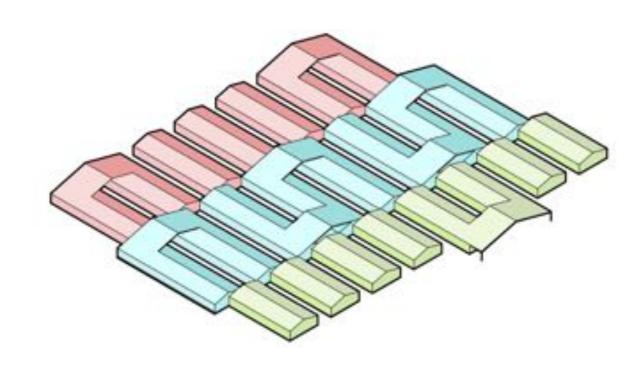
HOSPITAL DE PUYO



HOSPITAL DE MENONGUE

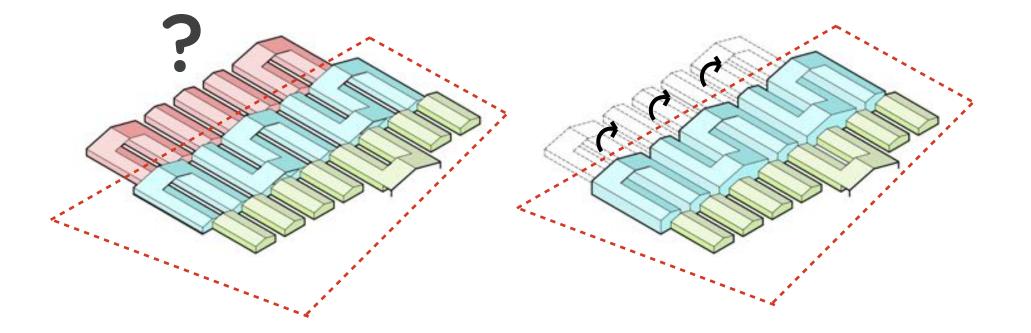


HOSPITAL DE MALABO

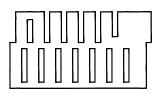




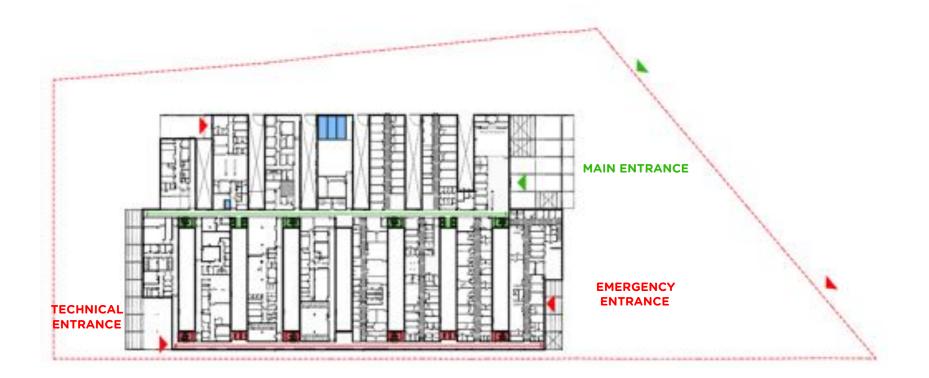
THE SYSTEM EVOLVED ALLOWING MORE FLOORS AND SMALLER BUILDING SITES







MACHALA HOSPITAL, ECUADOR 25.000 M2



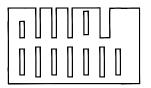












MANTA HOSPITAL, ECUADOR 25.000 M2













PARAMETRIC HOSPITAL IS A MODEL FOR ALL CASES







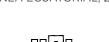
14.000 m2

Designed, build and equipped in

11 months









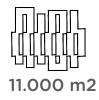
10.000 m2

Designed, build and equipped in

11 months



MENONGUE ANGOLA, 2015



Designed, build and equipped in

11 months



MACHALA ECUADOR, 2017



25.000 m2

Designed, build and equipped in

14 months



MANTA ECUADOR, 2017





25.000 m2

Designed, build and equipped in

15 months

PMMT

FORWARD THINKING HEALTHCARE ARCHITECTURE

Thank you very much!