



VR for Hospital Fire Management

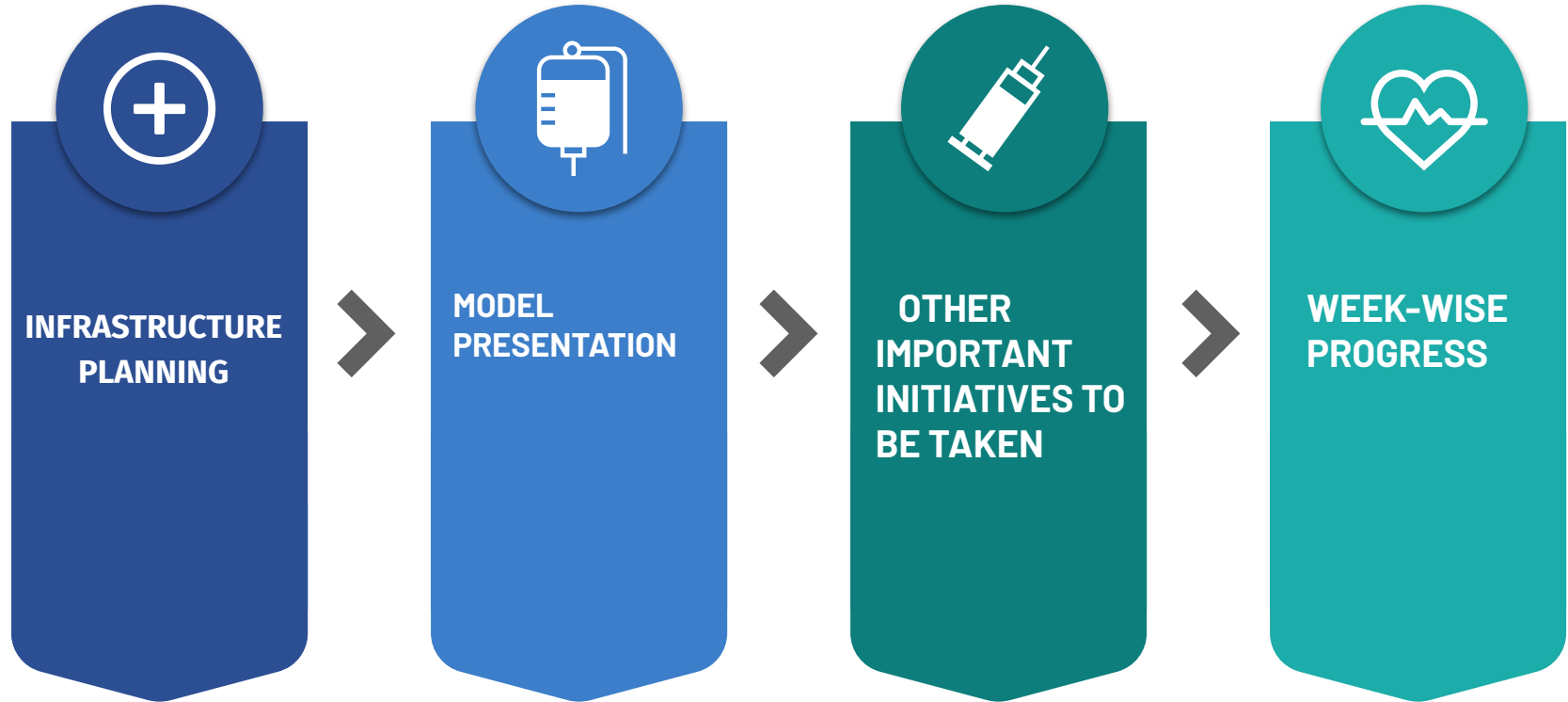
Work System Design Laboratory
Group 2

SPRING 2021-2022

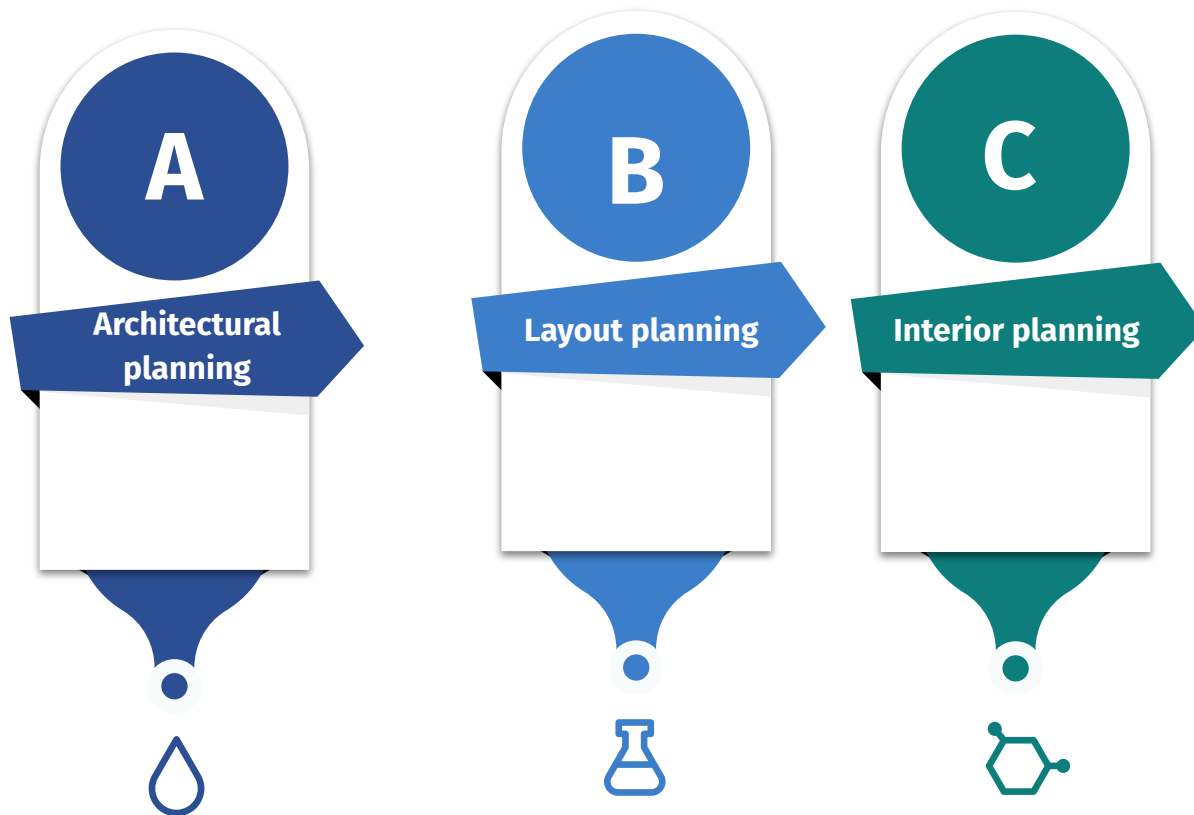
Our Team

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HOSPITAL INFRASTRUCTURE PLANNING



ARCHITECTURAL PLANNING

01

Sufficient open space between two buildings so as to minimize fire spread possibilities from other neighboring structure



02

There is enough space for movement and parking of fire fighting vehicles, ambulances, etc in the premises and wide road approach to the building.

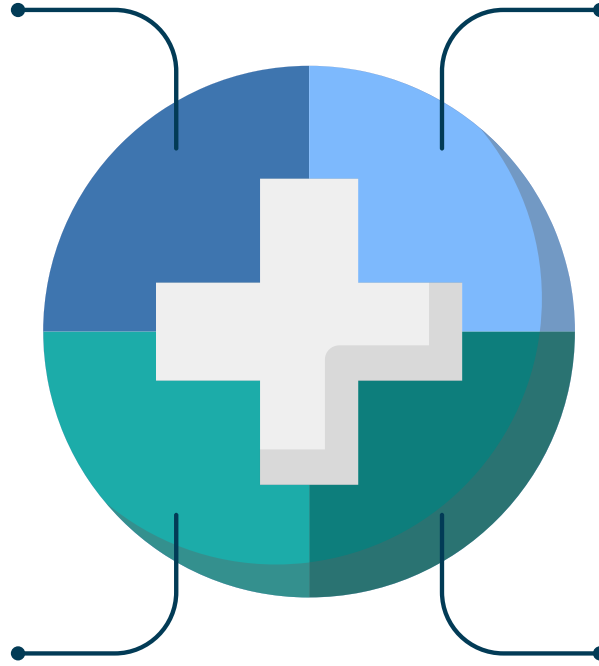
03

The size and no. of occupancy, lobbies, staircase, ramps etc is sufficiently wide



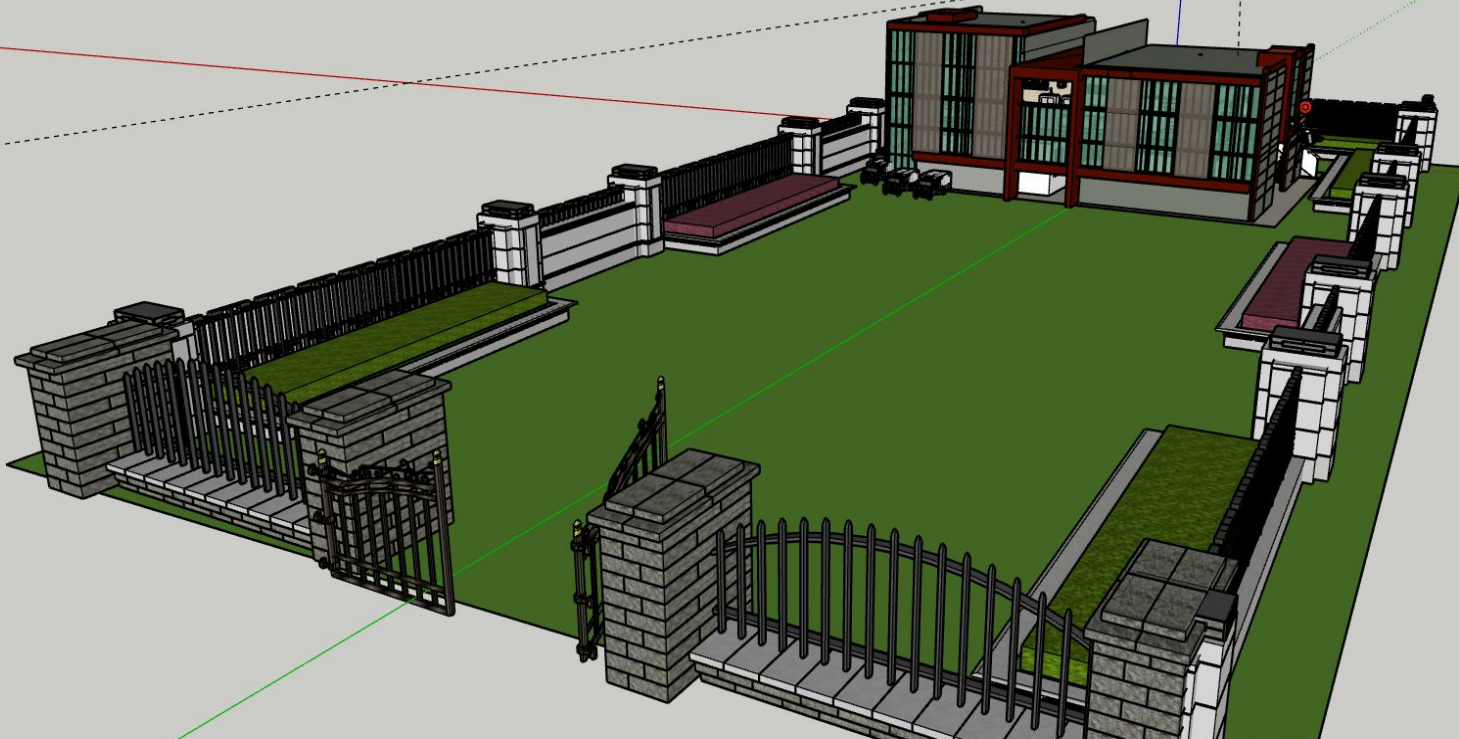
04

Ensuring movement of traffic and quick evacuation during emergencies.

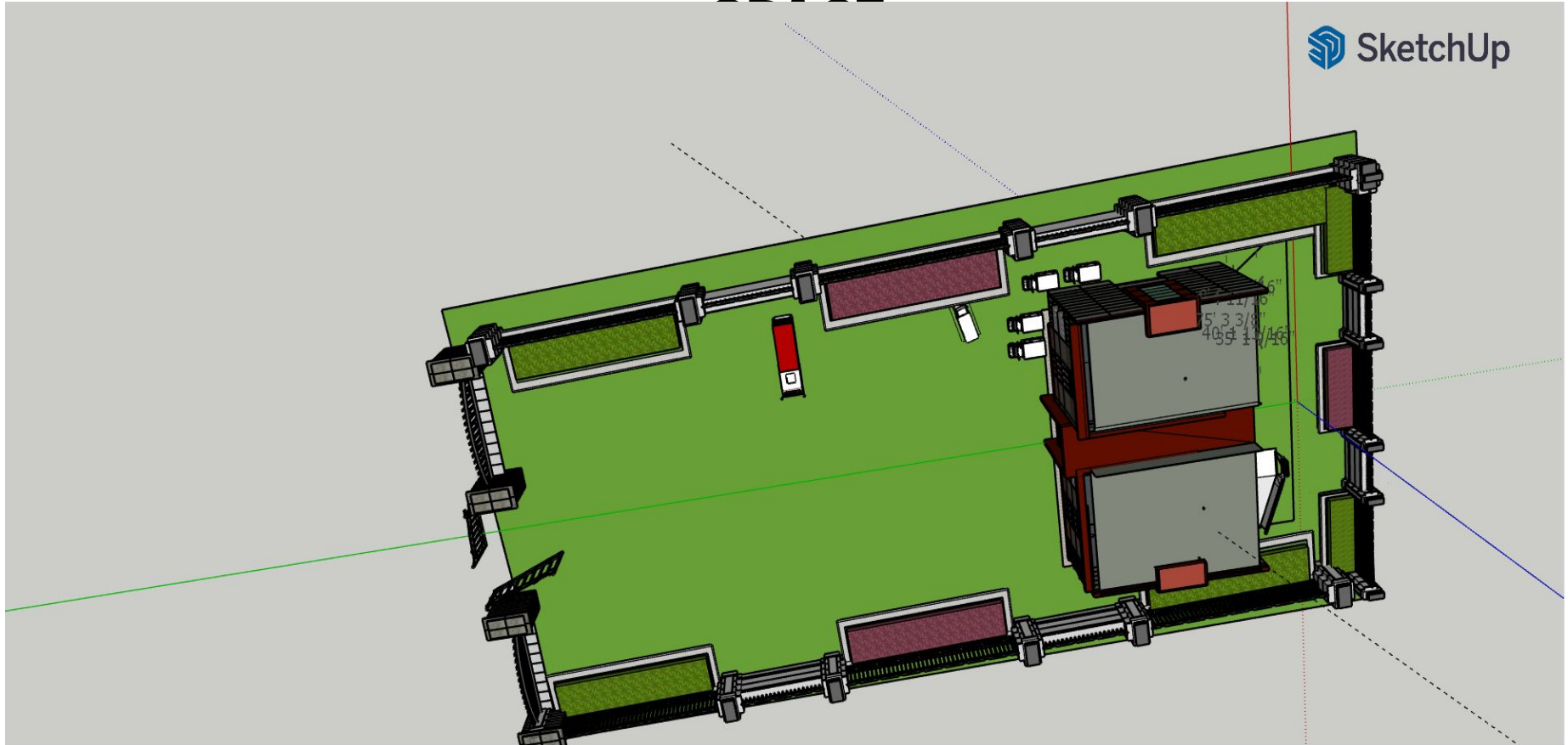


ARCHITECTURAL PLANNING: SUFFICIENT OPEN

SketchUp



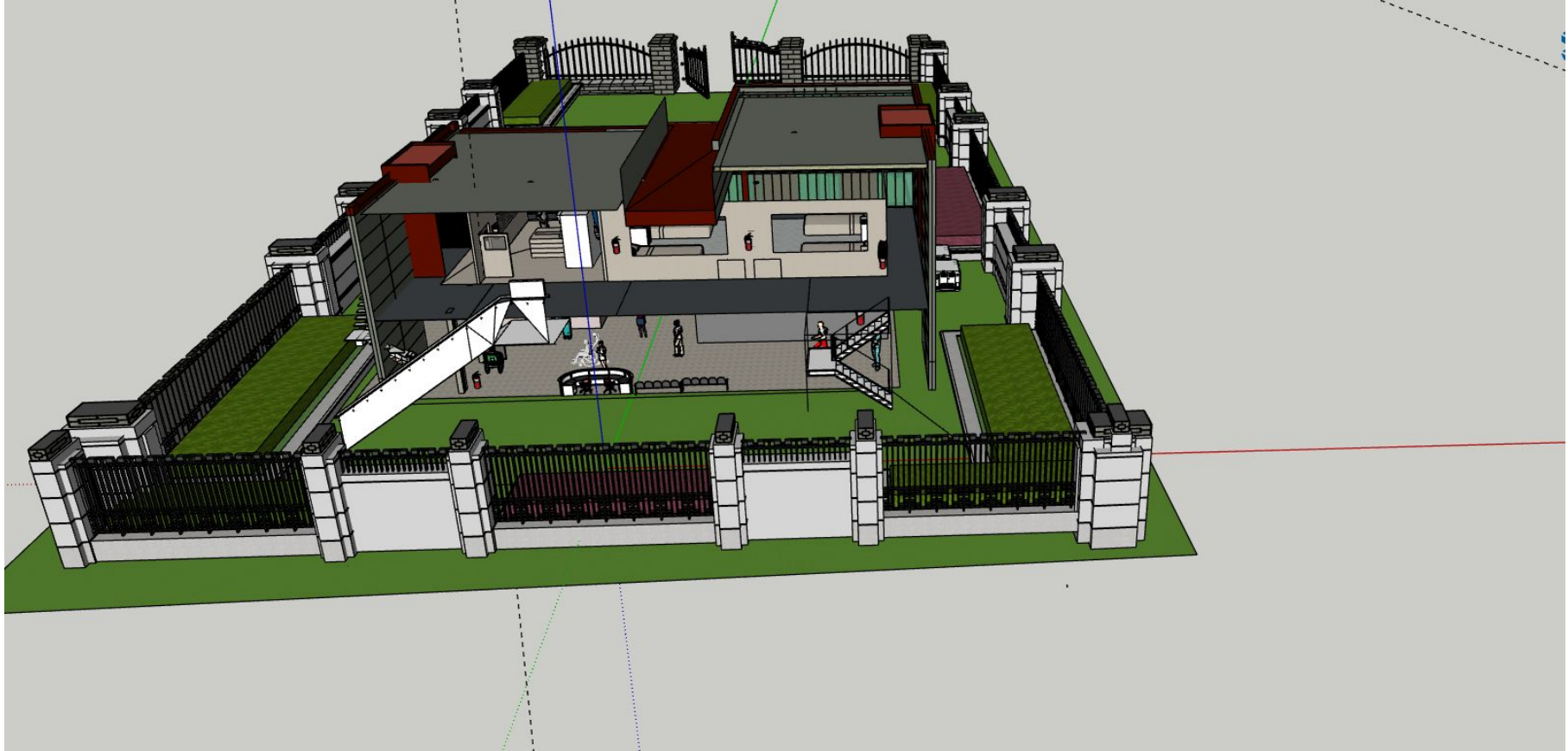
ARCHITECTURAL PLANNING: ENOUGH PARKING



ARCHITECTURAL PLANNING: LOBBIES AND OCCUPANCIES



ARCHITECTURAL PLANNING: TRAFFIC MANAGEMENT



LAYOUT PLANNING

01

The design of the building structure so planned that it allows pressurized exclusion of smoke in case of fire or any smoke leak.



02

Must have enough doors and windows



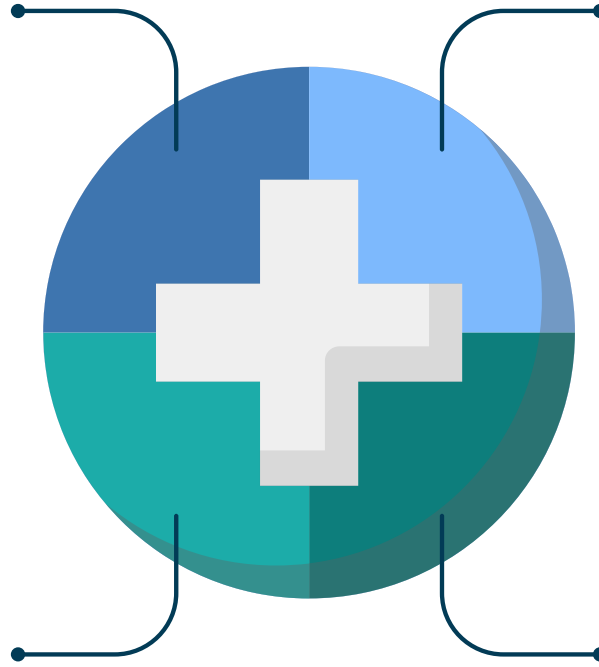
03

Safe and easy means of access provided to and in every place of work / in patient area.



04

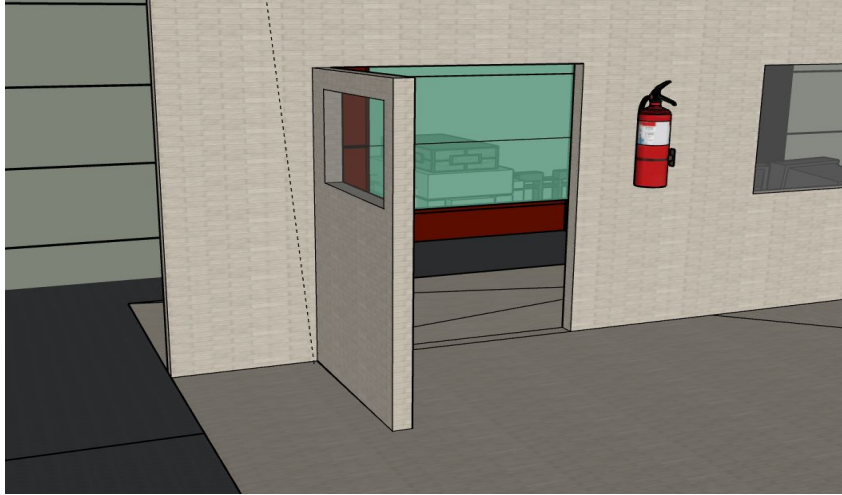
In case of emergency, safe and rapid exit provided for all occupants. Each building must have separate fire exit, staircase with proper signage



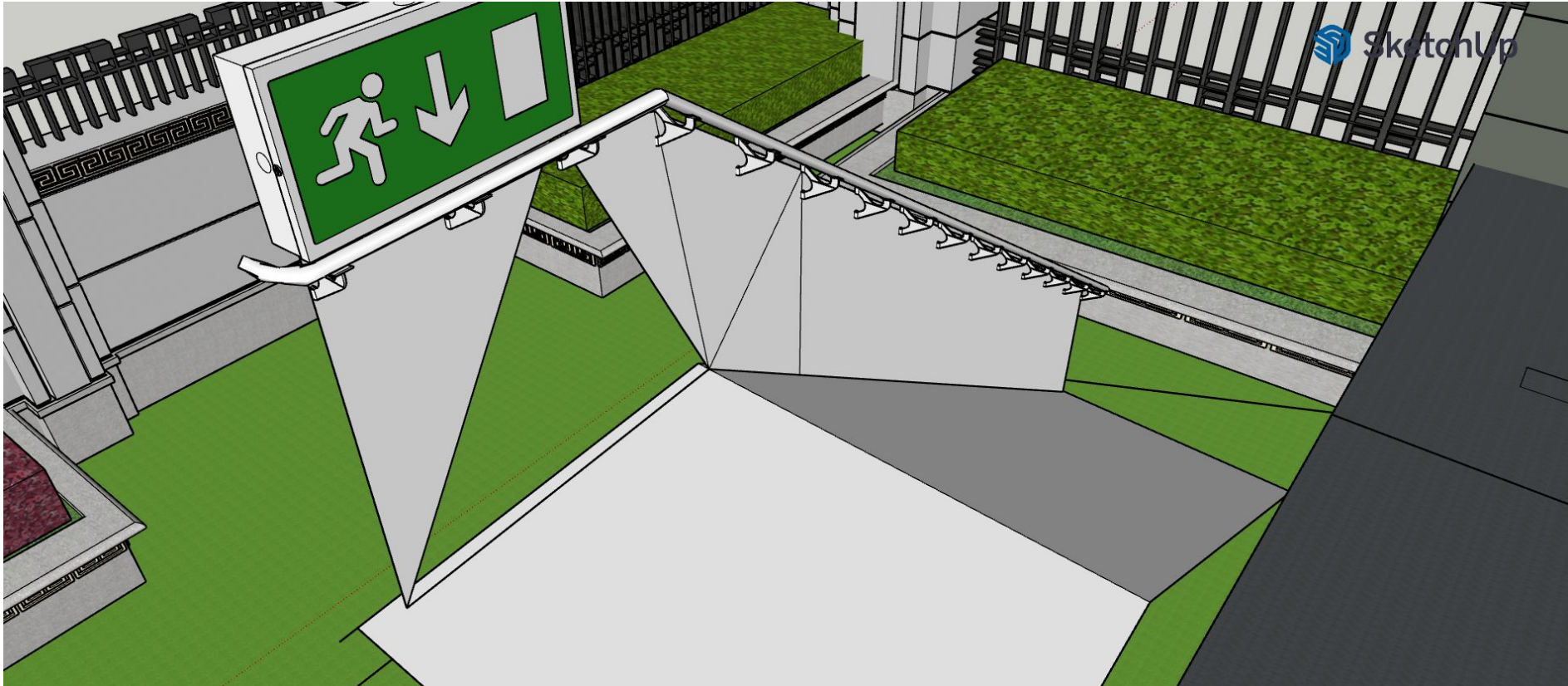
LAYOUT PLANNING: SMOKE EXCLUSION



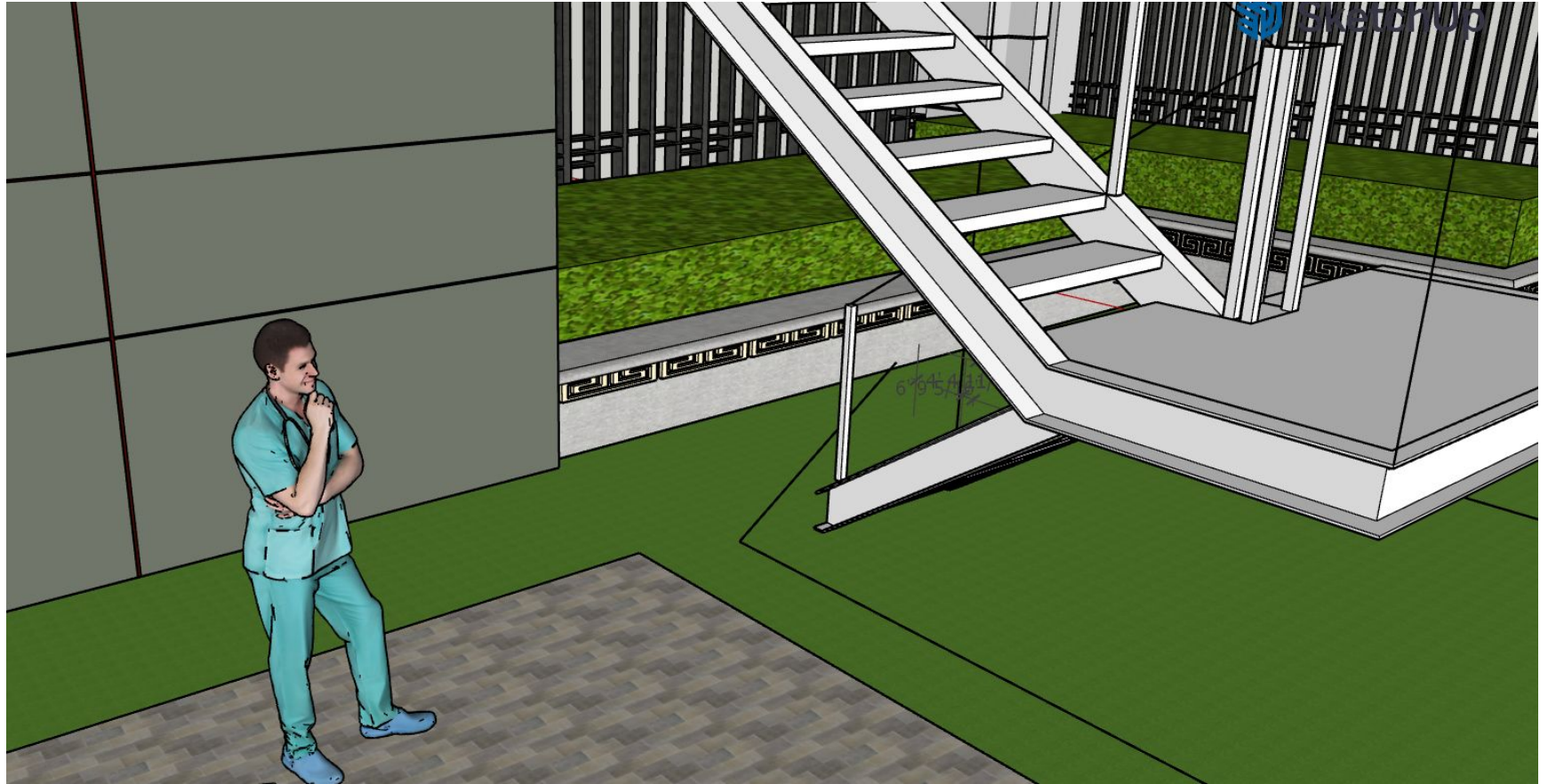
LAYOUT PLANNING: DOORS AND WINDOWS



LAYOUT PLANNING: EMERGENCY EXITS



LAYOUT PLANNING: EASY ACCESS



INTERIOR PLANNING

01

The floors are so designed that they are free from obstructions , are slip resistance and even.



02

Openings in floors are securely fenced or covered



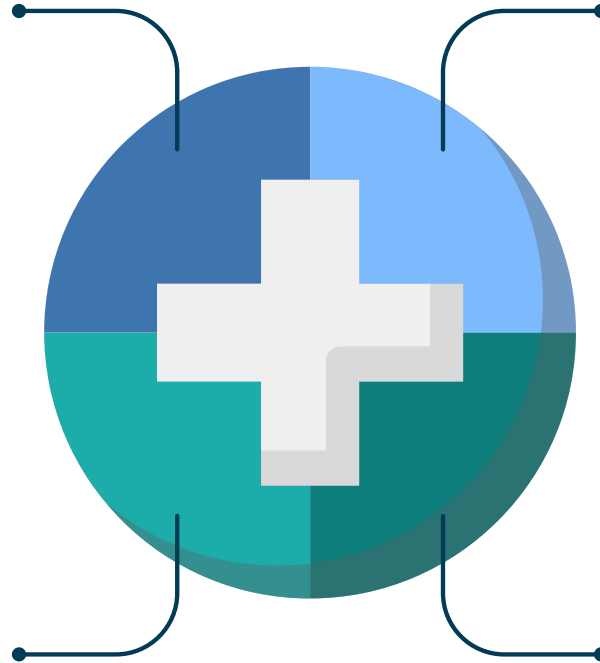
03

Staircase, ramps should be provided with substantial handrails and other suitable support to prevent slipping , where ever necessary

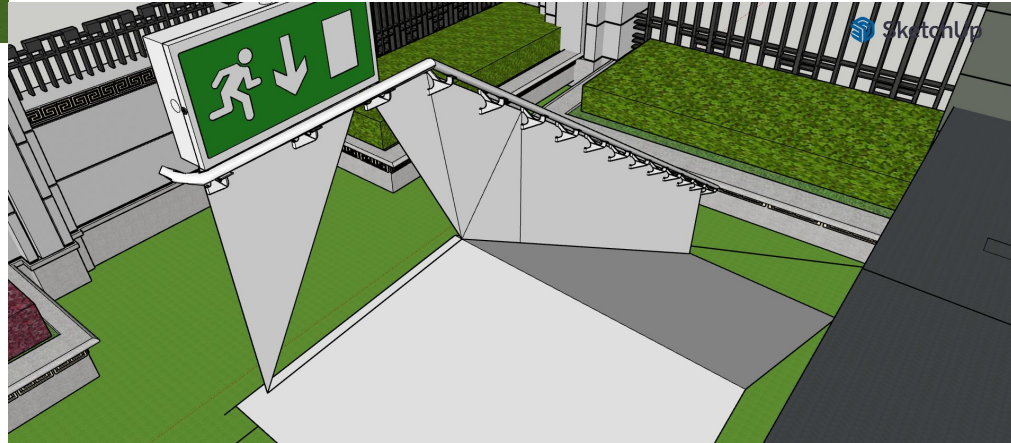
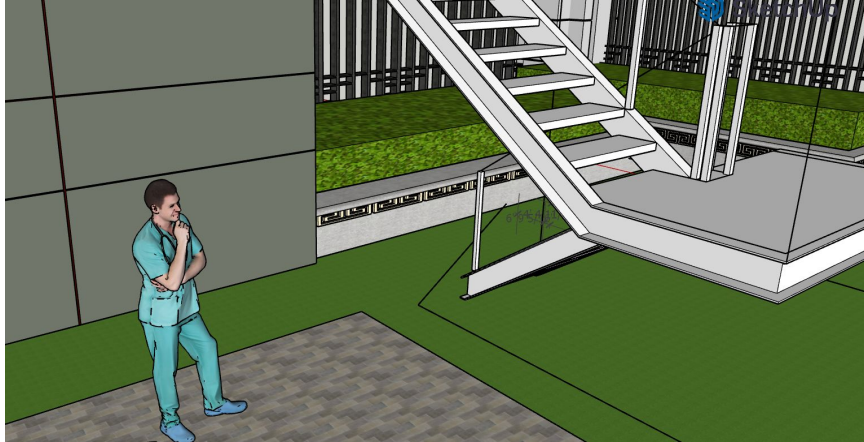


04

Interior should have fire proof doors, windows, walls and roof covered with fire proof materials

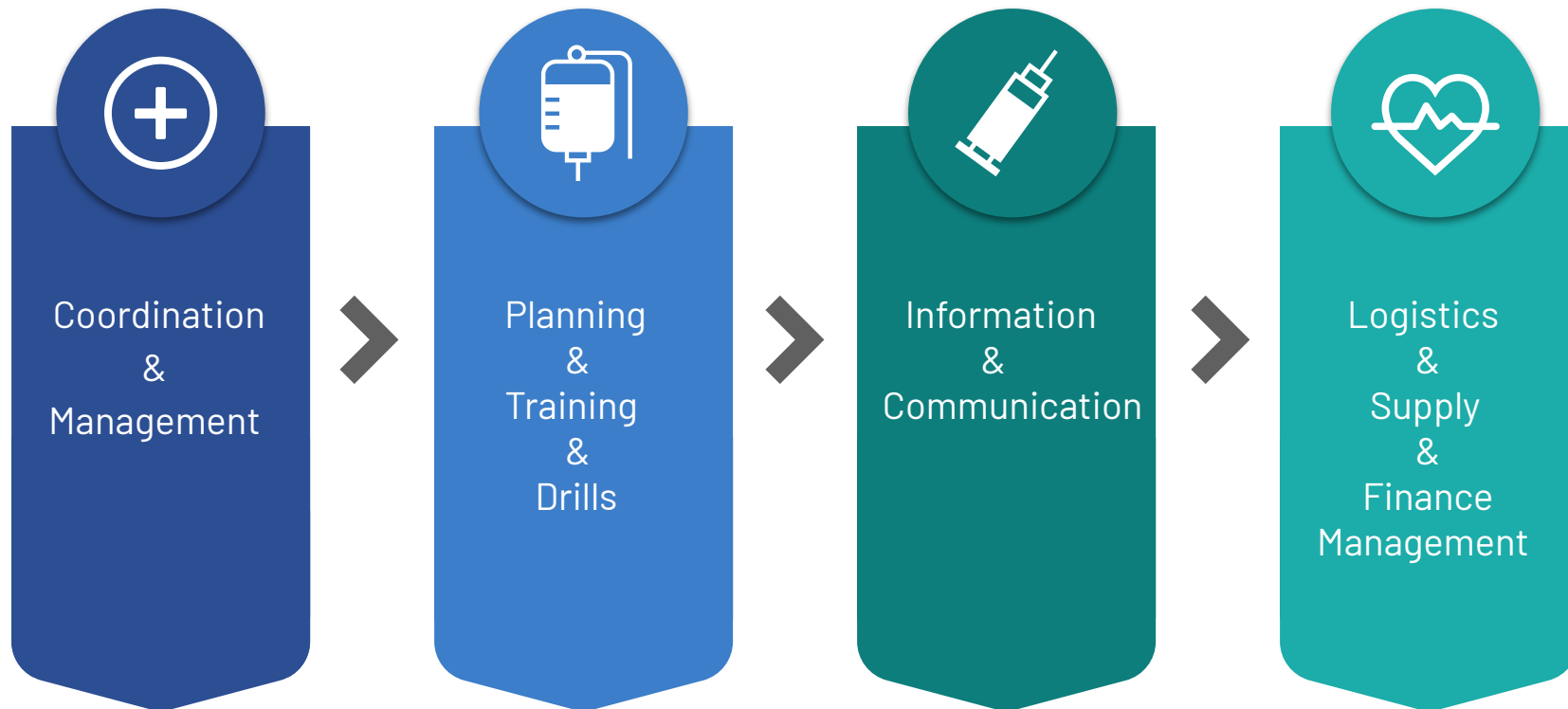


INTERIOR PLANNING: STAIRS AND OPENINGS

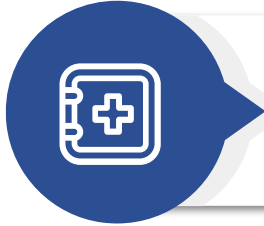


MODEL PRESENTATION

INITIATIVES NEEDS TO BE TAKEN BY THE PEOPLE



FEATURES OF THE MODEL



Fire & Smoke Alarms



Enough fire exit doors



Fire fighting vehicle

Fire extinguisher



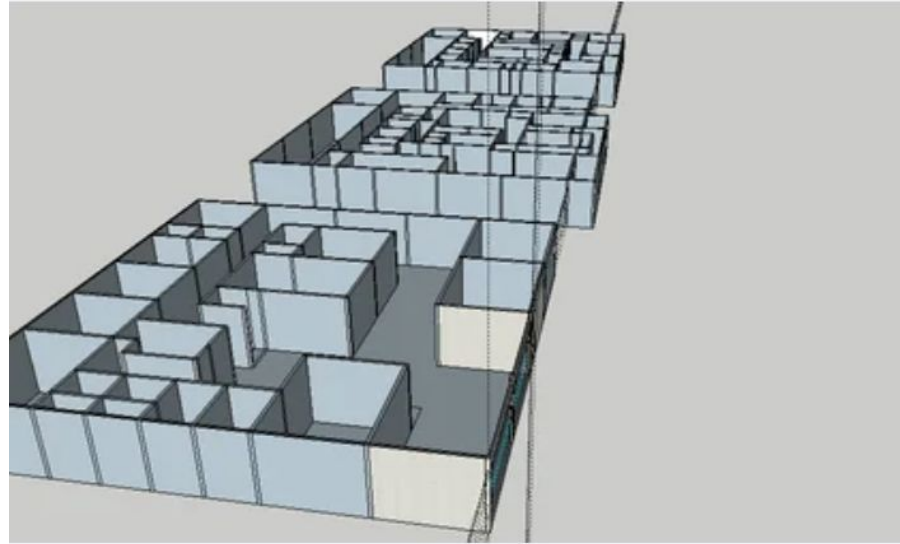
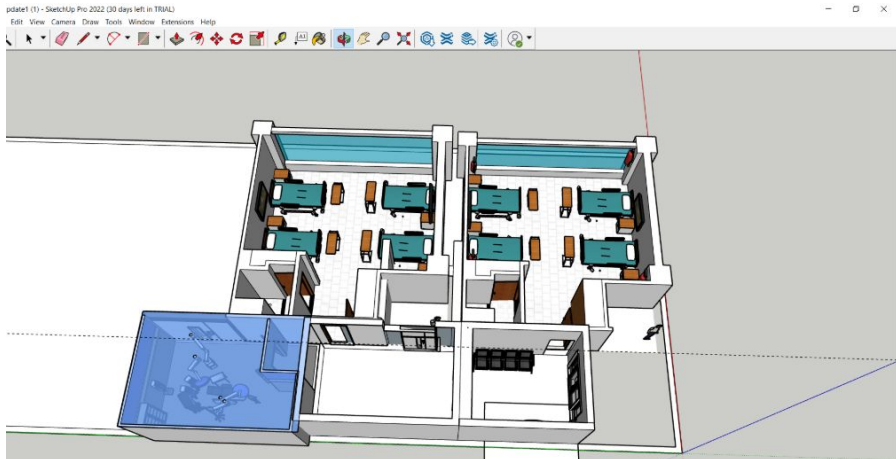
Wheelchairs exit stairs



Air ventilation



WEEK WISE PROGRESS



THANK YOU

