

KINETIC HOSPITAL

SUBMITTED BY:
CRGA DESIGN

DESIGN TEAM:

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THE CONCEPT:

The Kinetic Hospital serves as a flexible framework for healthcare, capable of growing or shrinking as required and adapting to evolving technologies, communities, medicines, and construction methods. The structure is composed of modular components around the periphery of fixed floor plates. Upon demand, prefabricated units are hoisted into position or taken down using a built-in, pivoting crane system that rotates around the building. The composition of positive and negative spaces creates a changing landscape of solids and voids—"solids" containing programmatic components and "voids" housing an ever-changing sequence of courtyards, plazas, and green roofs.

The Kinetic Hospital incorporates diverse mixed uses beyond traditional programming, including public plazas, retail shopping, dining, and residential units. It is envisioned as a "vertical community" woven into the surrounding city's infrastructure and culture, thus dismantling negative associations often made with healthcare environments and reinforcing the idea that hospitals can become microcosms for the community.

CRGA DESIGN

ARCHITECTURE
INTERIOR DESIGN
PLANNING

View of the ever-changing healthcare hub from Baltimore's famous downtown.



View of the healthcare hub site as you are entering downtown Baltimore from the south.



The hub site (marked in red) is in the dense urban fabric of Baltimore City.



Early concept sketch of the project showing the kinetic growing tower idea.



Later team idea concept sketch showing tower core and cranes lifting interchangeable building pod parts.

