

BREAKING THROUGH

A CONCEPTUAL DESIGN COMPETITION FOCUSED ON IMAGINATION+INNOVATION

EMERGENCY AVIATION UNIT OF THE NEAR FUTURE

SUBMITTED BY:
STANTEC ARCHITECTURE

DESIGN TEAM:

Theresia Lacy, IDT (Edmonton, Alberta); Samanta Audere, Dipl. Arch Tech, IDT (Edmonton, Alberta); Nico Du Toit, Graphic Artist (Edmonton, Alberta); Aimee Mah, BSc, MID (Edmonton, Alberta); Michelangelo Pico, Architectural Designer (Victoria, British Columbia)

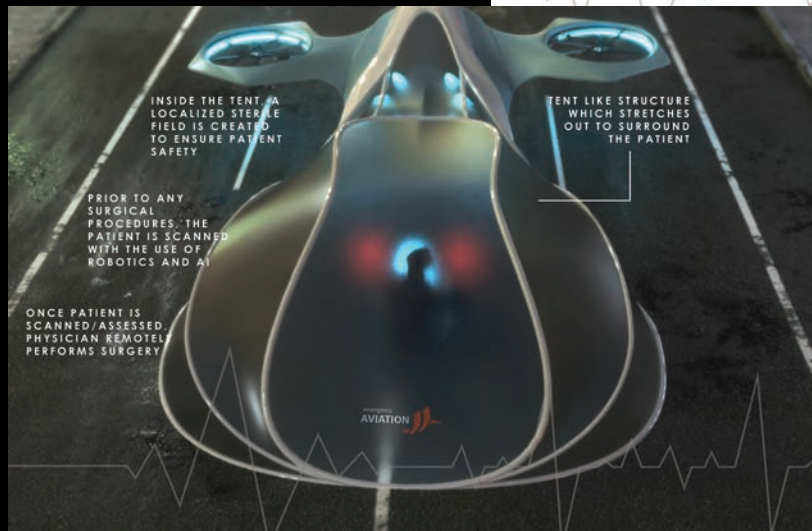
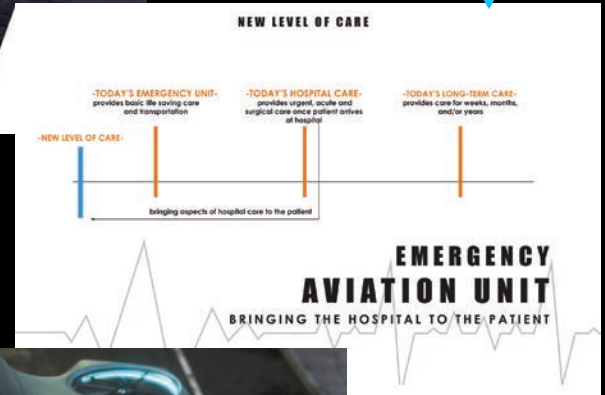
THE CONCEPT:

Often access to healthcare is limited to geographical availability. This includes not only access to basic care from rural and remote communities, but also surgical interventions required in emergency situations. This is due to the large geographical distance to major health centers where urgent care is provided. This project proposes a conceptual model that would bring lifesaving tools and surgical interventions, which have been traditionally confined to hospitals, to the scene of an emergency by proposing a system that would shift the current healthcare delivery system from the traditional "patient goes to the hospital" to "the hospital goes to the patient." This is accomplished by utilizing a three-part system of wearable technology, drone aviation and artificial intelligence (AI) to respond more rapidly than today's standards.



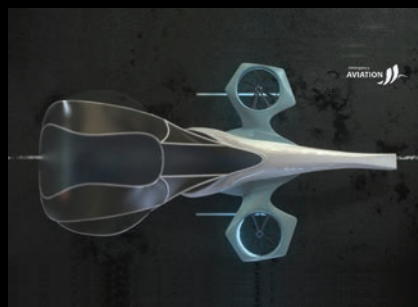
Conceptual Emergency Aviation Unit (EAU) in flight over remote areas.

Proposed New Level of Care – Challenging the Traditional Delivery System.



The proposed on-site function and delivery of care by the Emergency Aviation System.

Conceptual Emergency Aviation Unit (EAU) in flight within the city limits.



Top view of the Emergency Aviation Unit (EAU) with its tent structure released over patient, providing a safe surgical zone.

