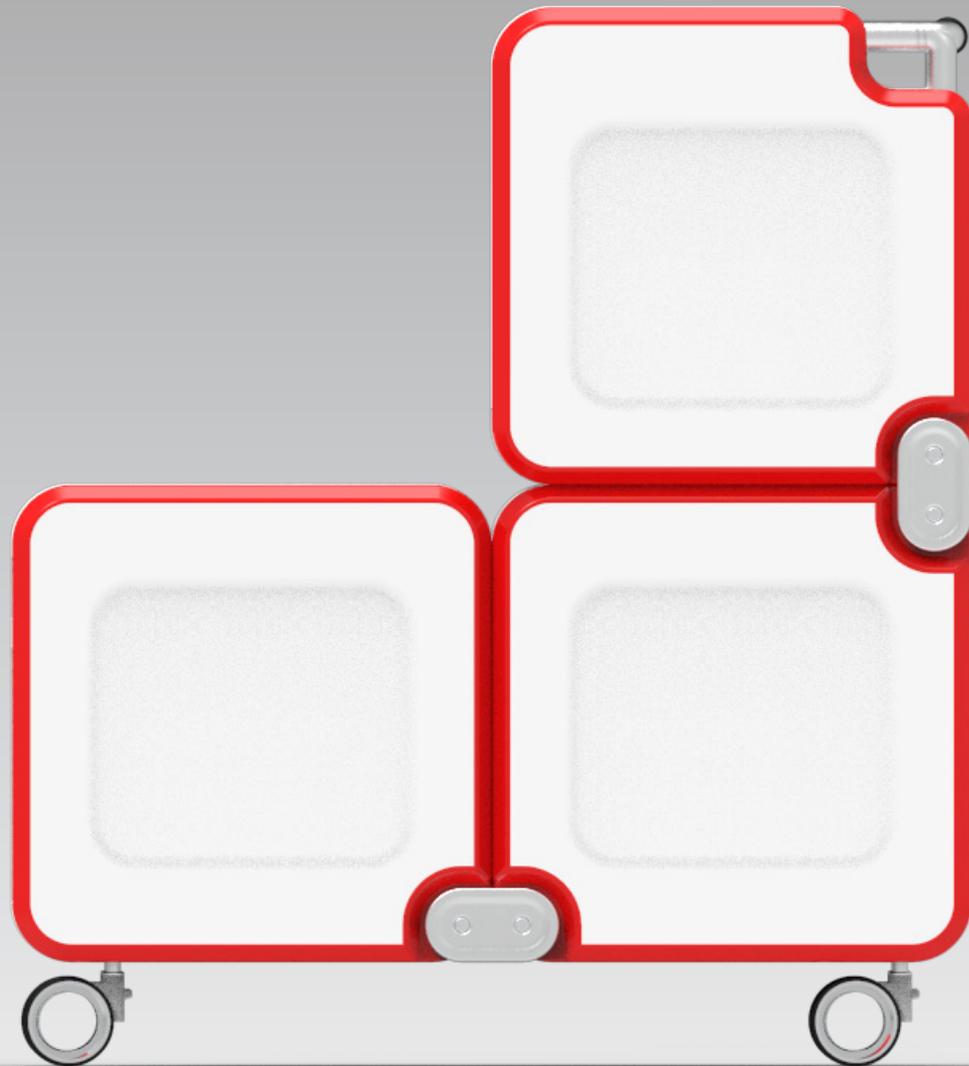


MOD 

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BACKGROUND

In-flight medical emergencies occur in approximately **1 in 604** flights.

The most common IMEs involve “syncope”, meaning a **loss of consciousness**, or near-syncope (**32.7%**).

USER PERSONA



JANET

Occupation

Flight Attendant

Age / Gender

40 / Female

Quote

“This is what we’ve trained for, yet it’s still so overwhelming.”

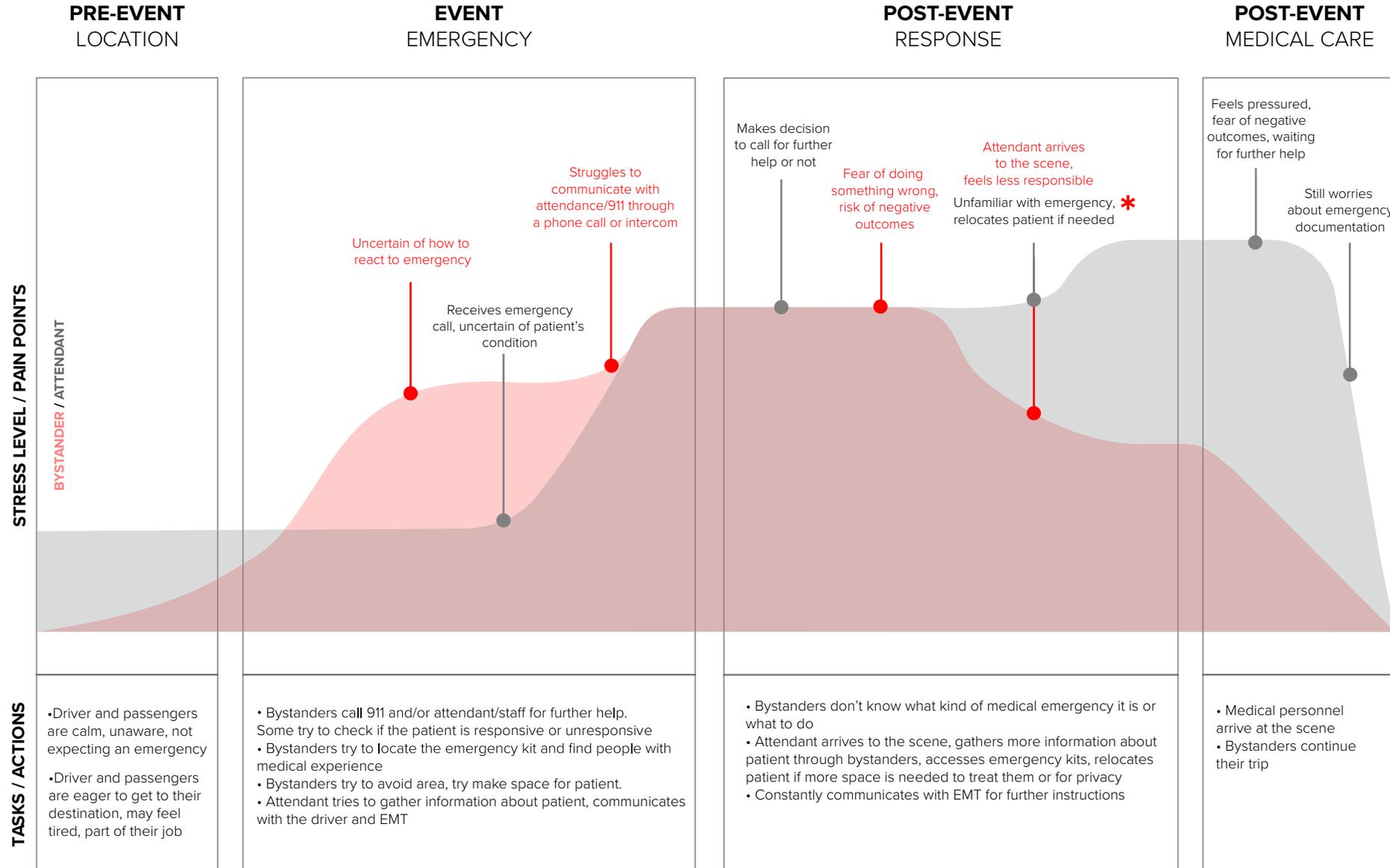
Emergency

Loss of consciousness

Experience

Janet has been a professional flight attendant for the past five years. She has been trained on FA protocols for treating in-flight medical emergencies, but is stressed about having to act quickly in these high-stakes situations.

USER JOURNEY



INSIGHTS

LACK OF SPACE → DIFFICULT TO ACT QUICKLY → DELAYED RESPONSE,
WORSE HEALTH OUTCOMES

OPPORTUNITY

We should be build a structure for airplanes that supports **patient relocation** so that they may receive treatment in a more suitable environment.



MODULAR MEDICAL CART
FOR IN-FLIGHT EMERGENCIES

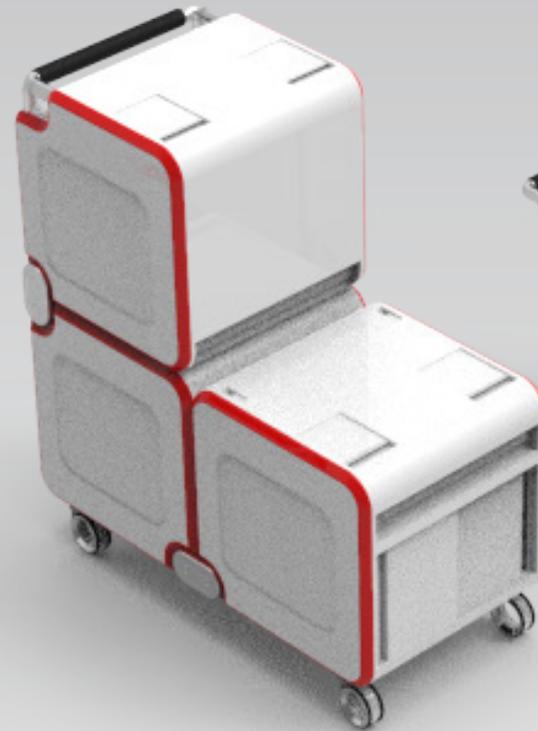


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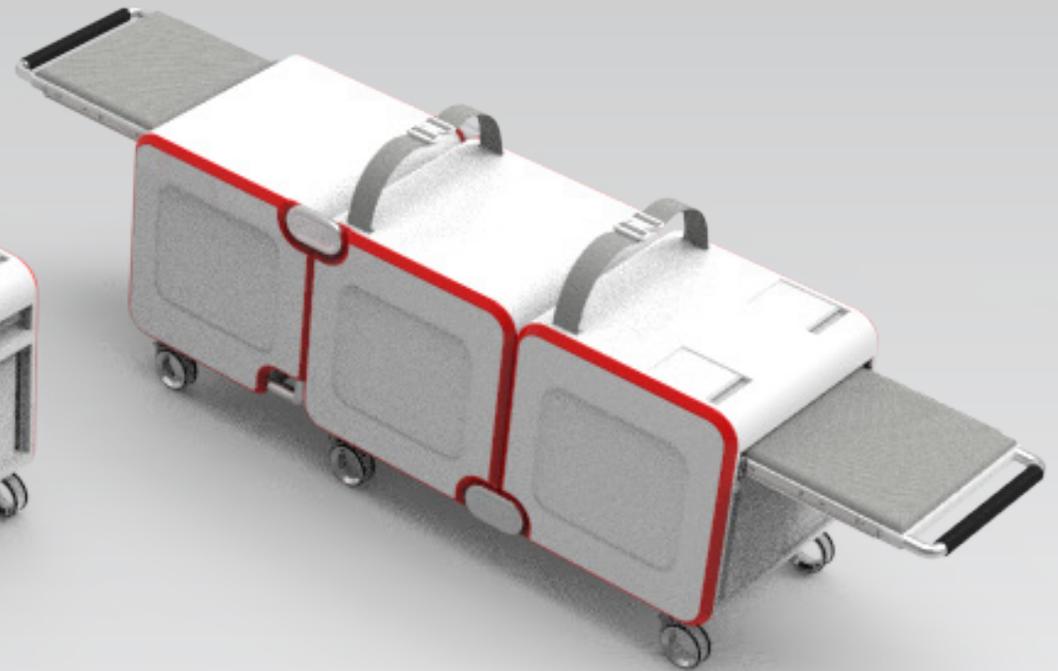
MODULAR



1_storage configuration for integration into galley



2_wheelchair configuration for easy transition from airplane seat

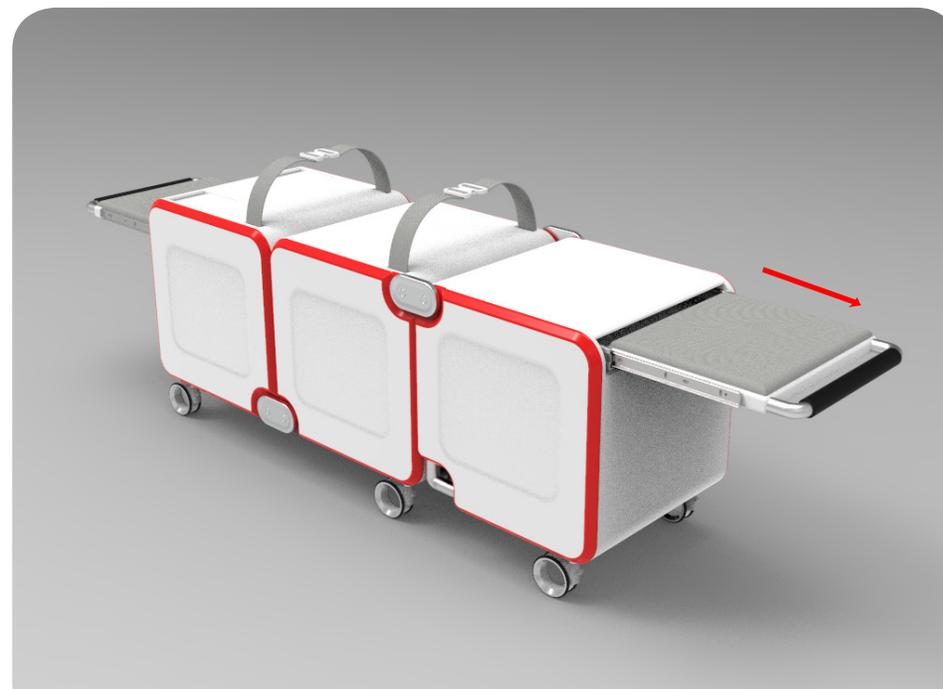


3_backboard configuration for patient stabilization and transport

MODULAR



flippable compartments
extendable with slide-out panels
retractable wheels



STORAGE SPACE

can securely store standard
airplane medical equipment inside

INVENTORY

first aid kit
pulse oximeter
O2 canister
CPR mask
AED
epipen
IV start kit
medications

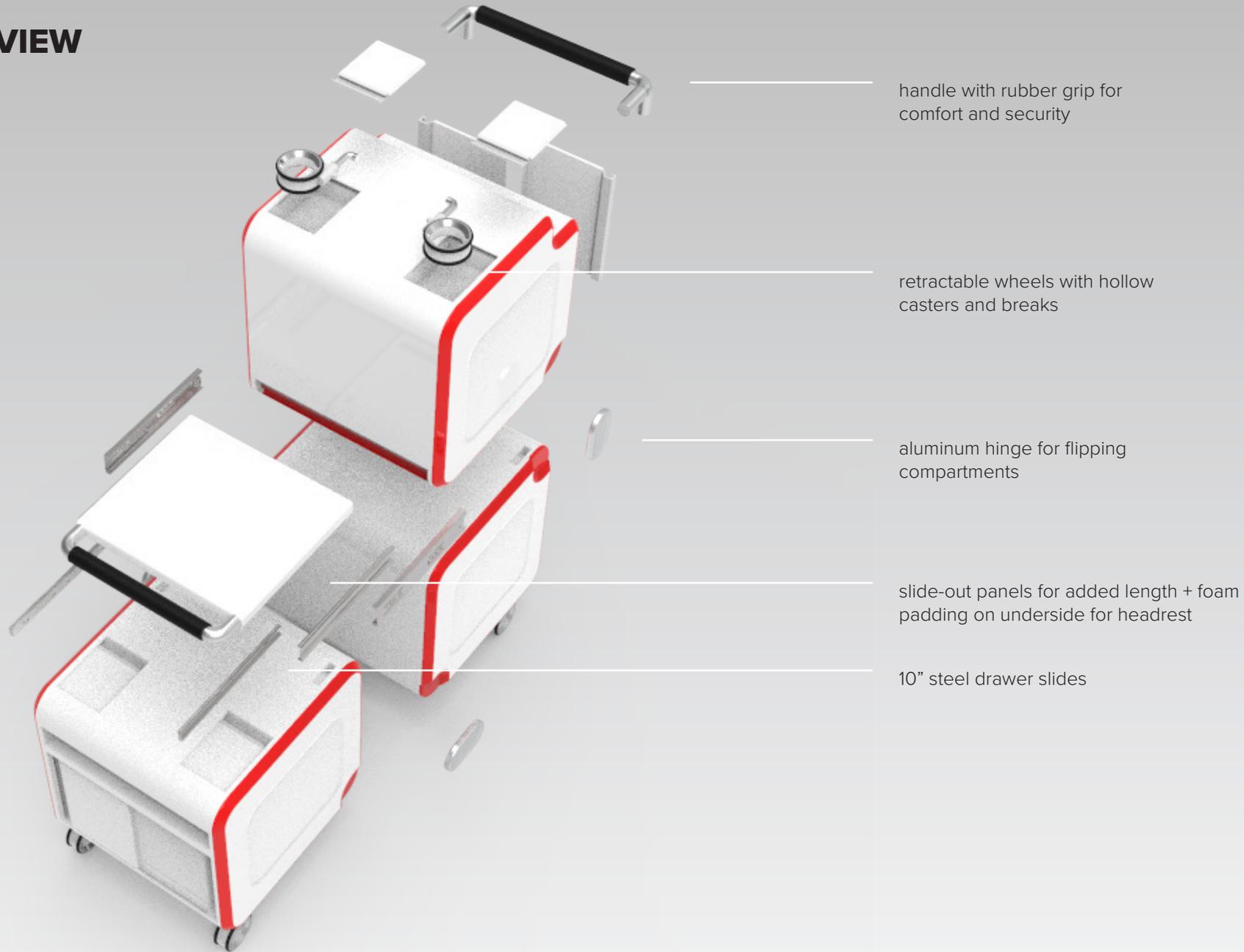


EASILY STORED

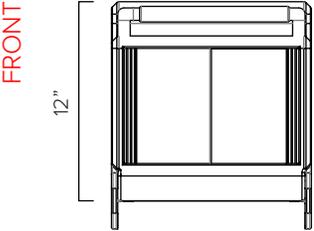
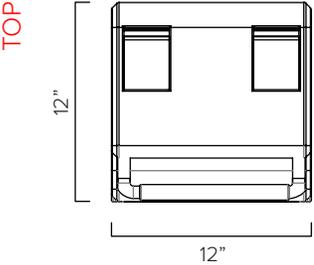
integrates into existing trolley storage galleys
different configurations allow for space efficiency



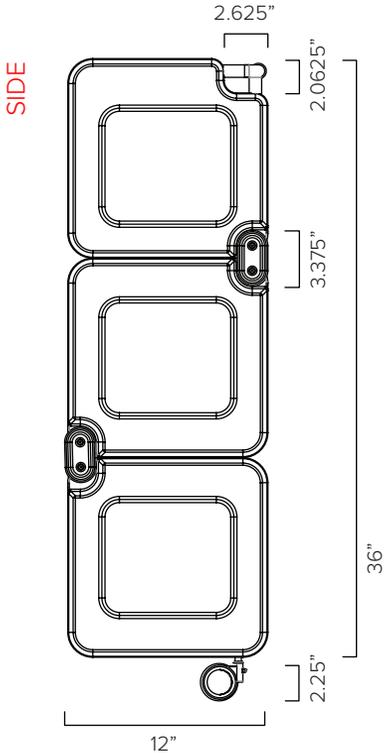
EXPLODED VIEW



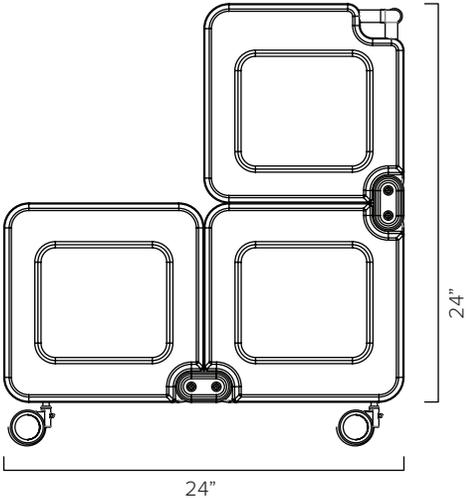
ORTHOGRAPHICS



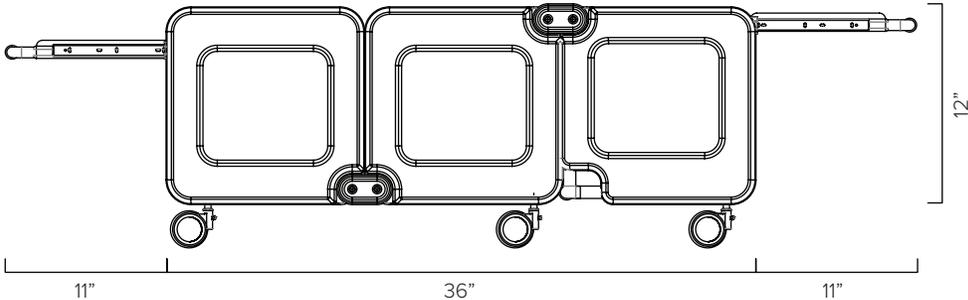
SINGLE UNIT
each unit is 12"x12"x12"



CONFIGURATION 1



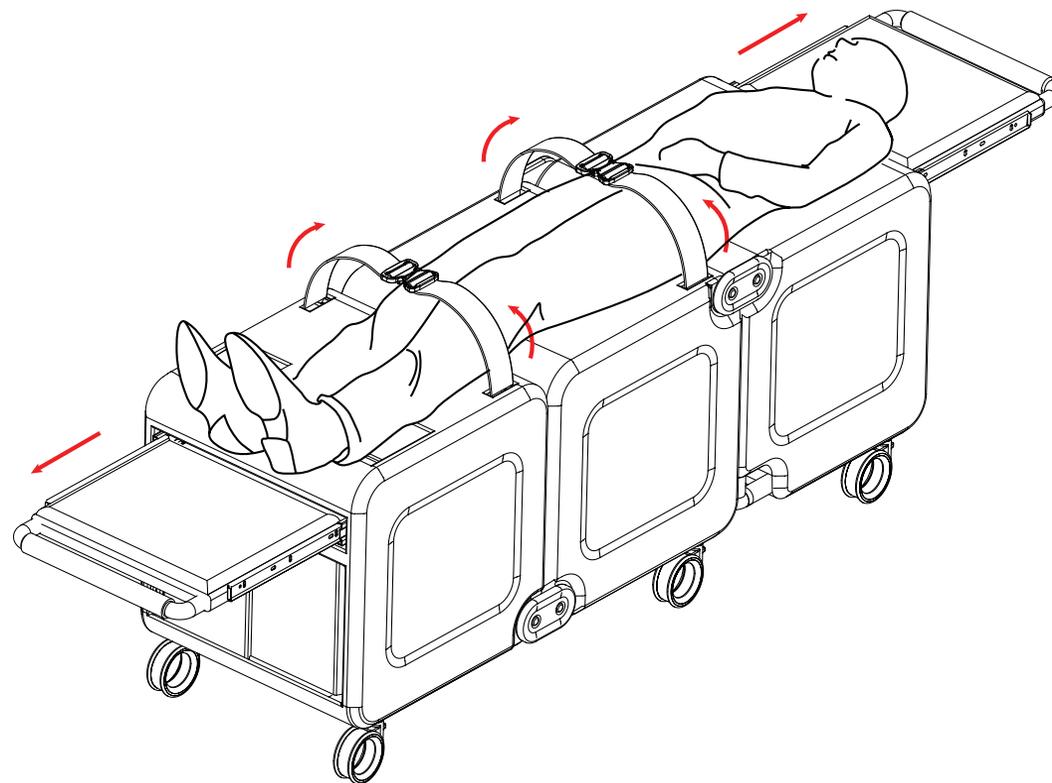
CONFIGURATION 2



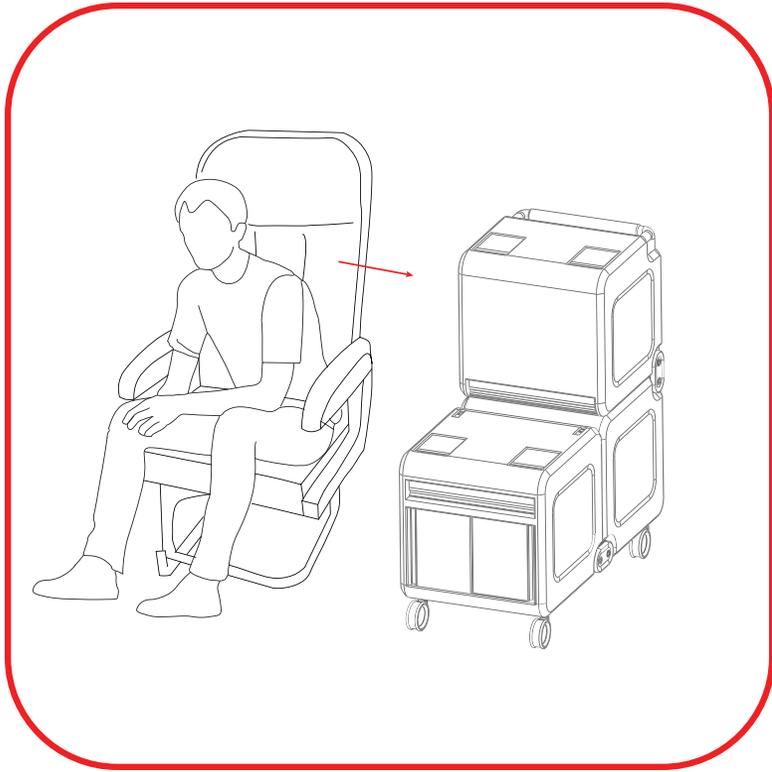
CONFIGURATION 3



a standard full-size airline trolley is 32"x12"x41" (LxWxH)



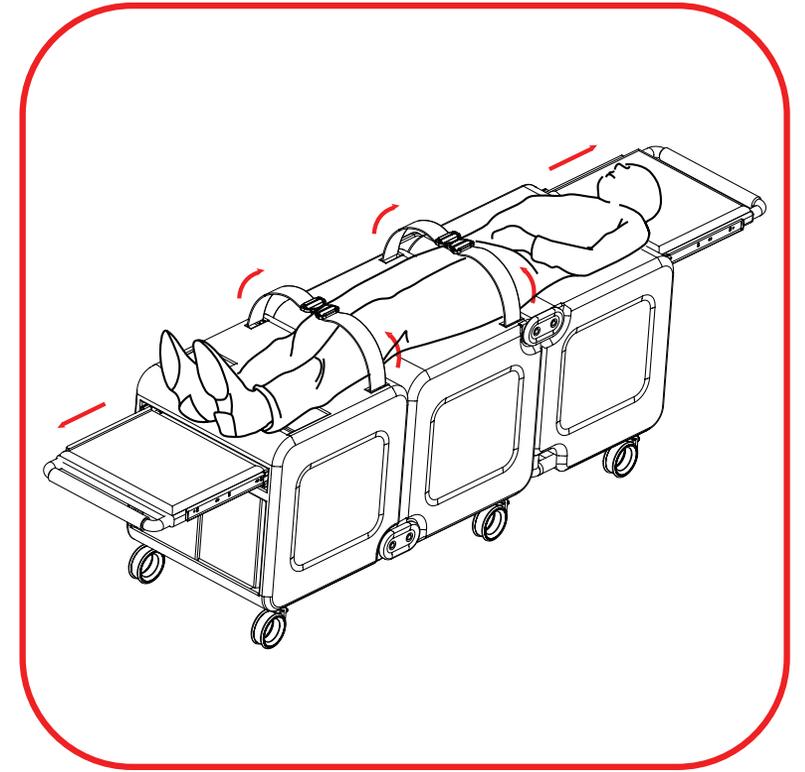
HOW TO USE



1_shift the patient onto the wheelchair configuration



2_lean the patient back after flipping the first compartment



3_pull out panels for added length and secure belts around patient

MOD: A SUMMARY



- easily relocates patient
- reduces response time
- stabilizes patient
- integrates into existing structures
- securely stores equipment

THANK YOU 

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