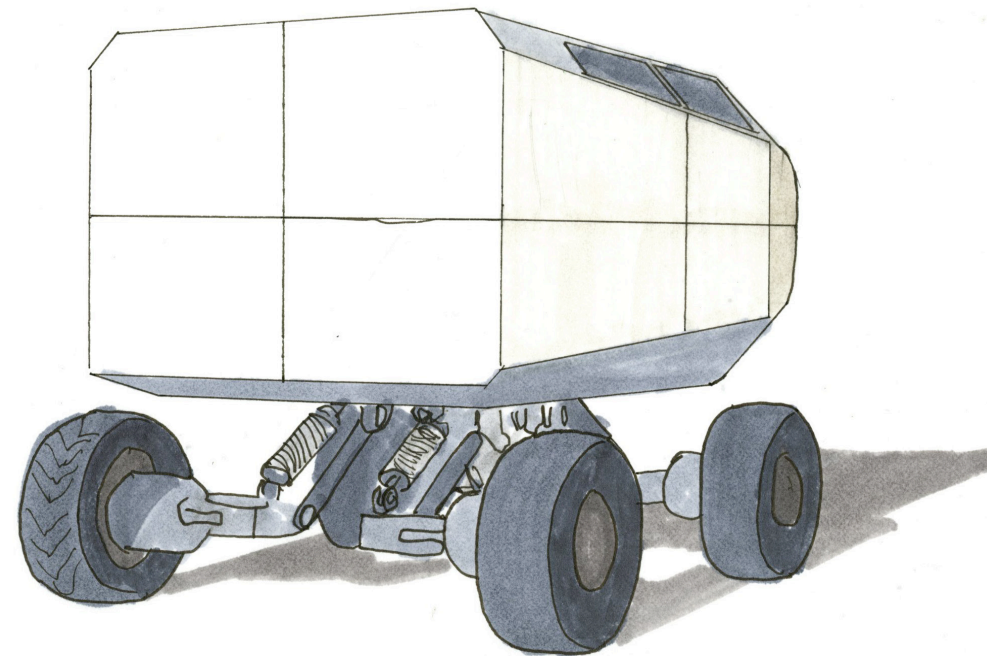
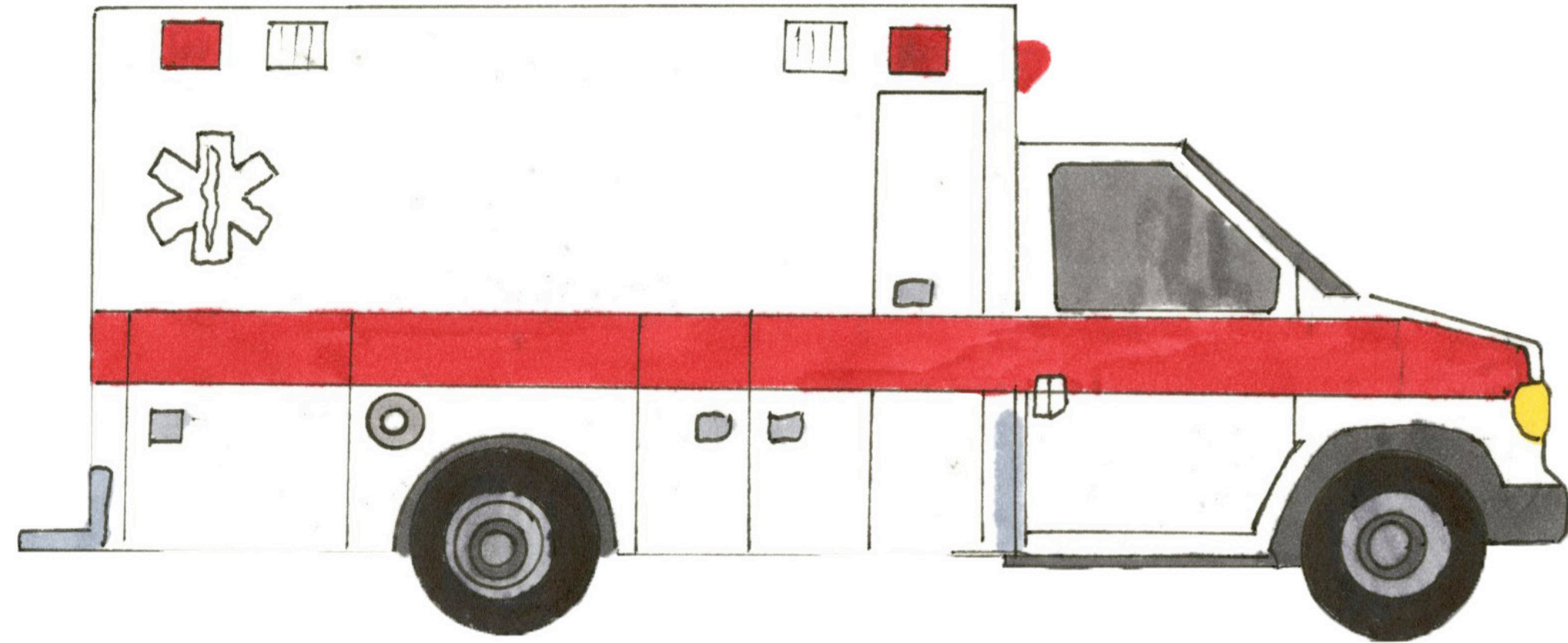
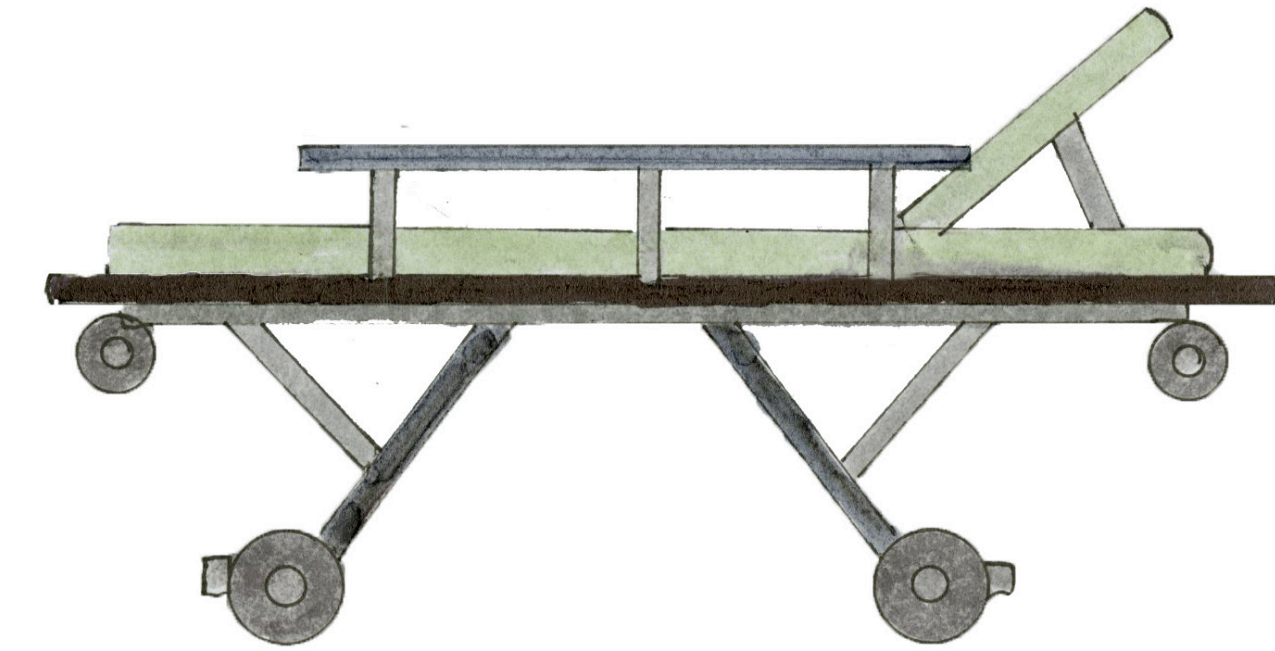


Autonomous Medical Unit

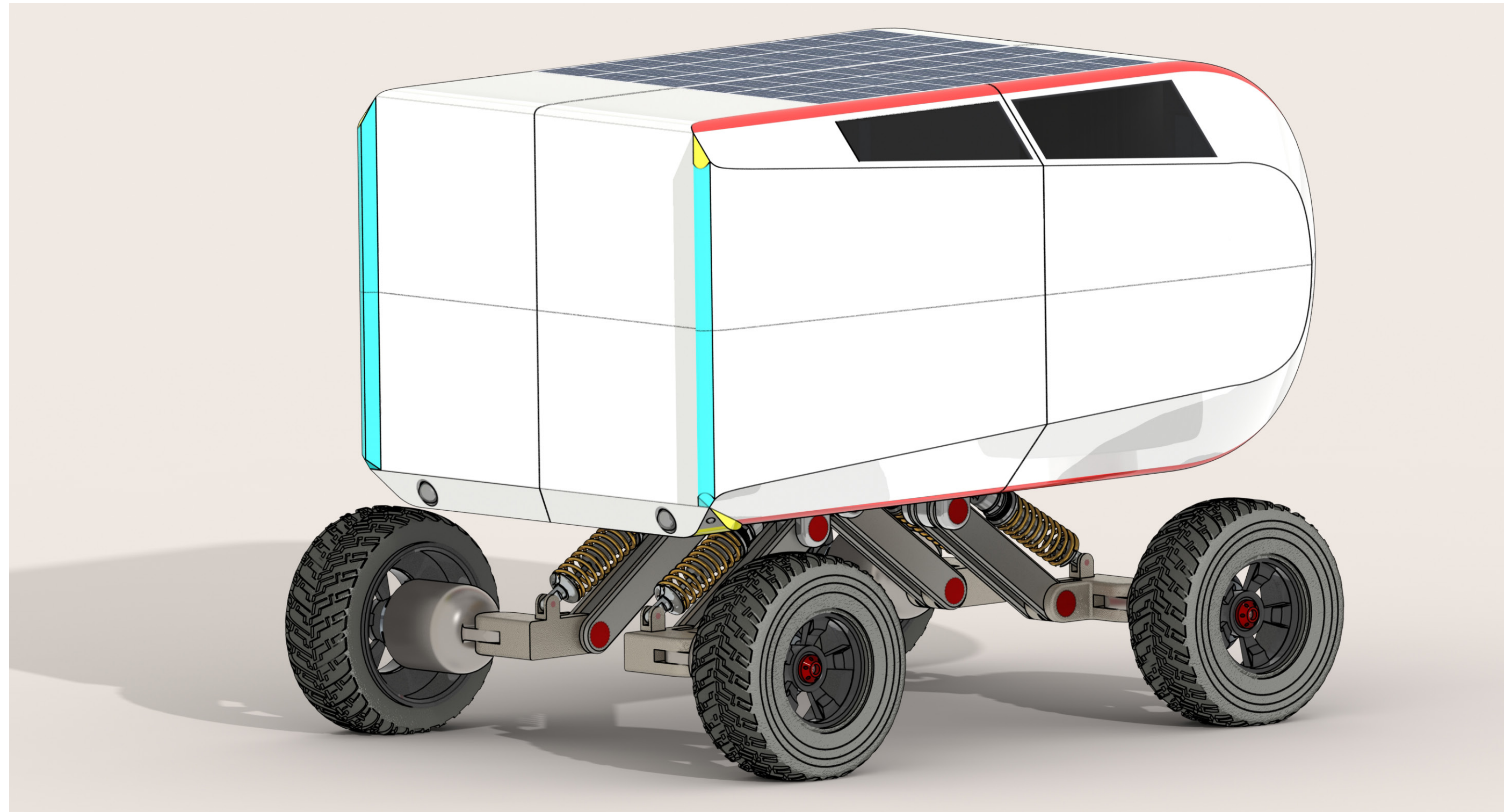




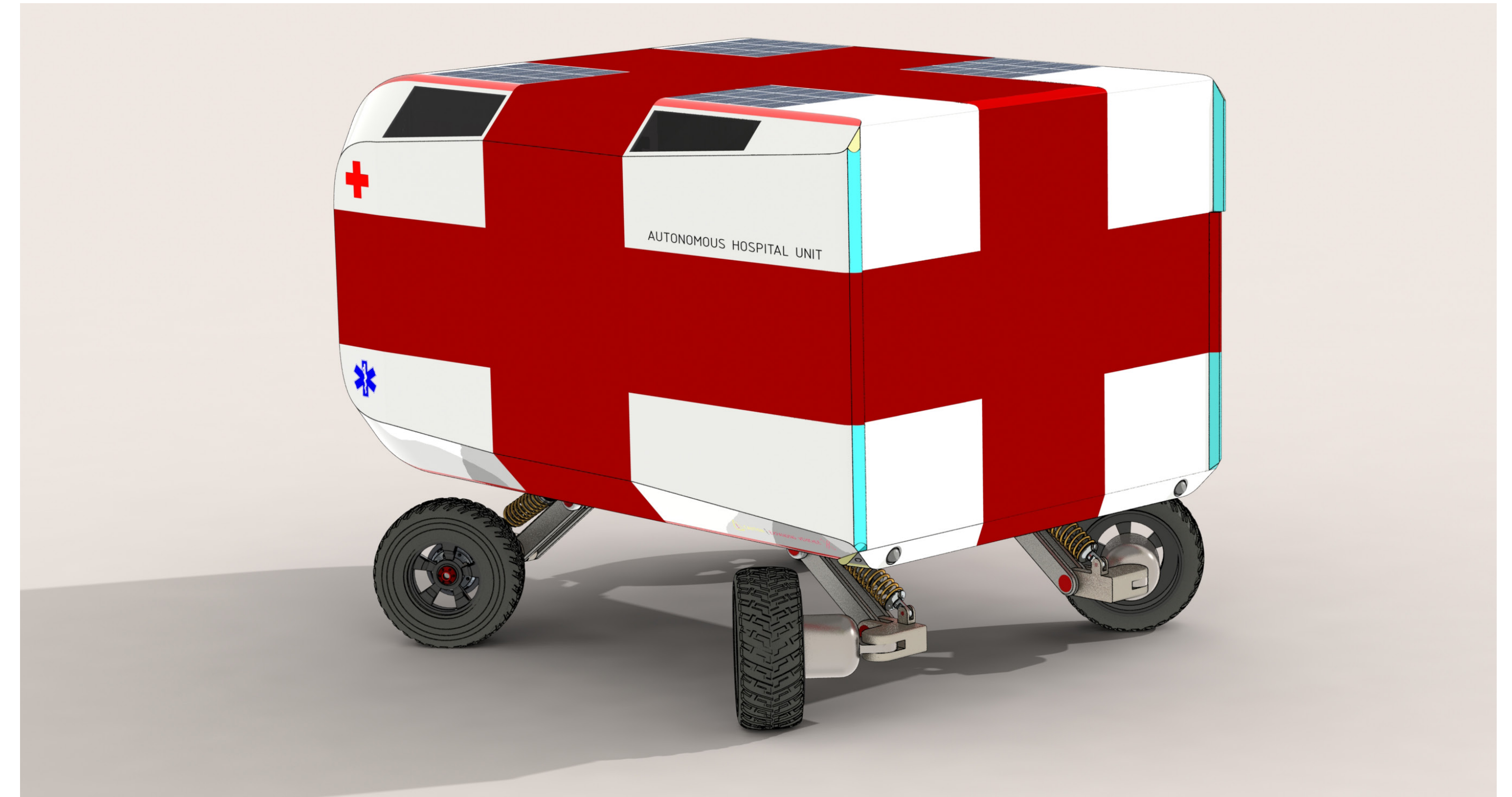
Ambulances do well to facilitate an immediate response to a situation, but they have limited ability to provide instant treatment in the wake of needing to move patients to a care facility.



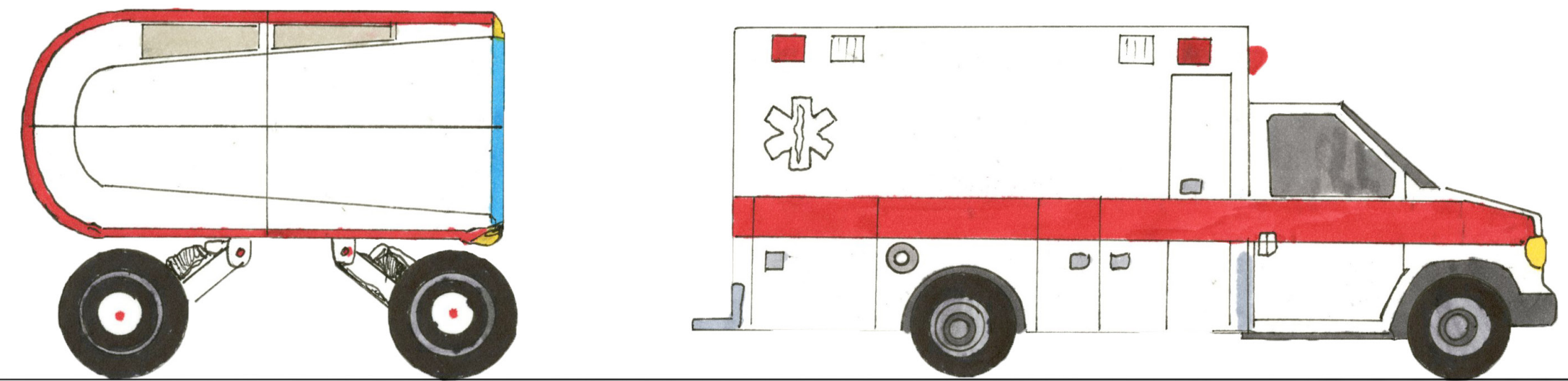
In many cases though, the time spent picking up a patient and taking them to the hospital might not be enough. What do you do when you need to get straight to work to **save a life**?



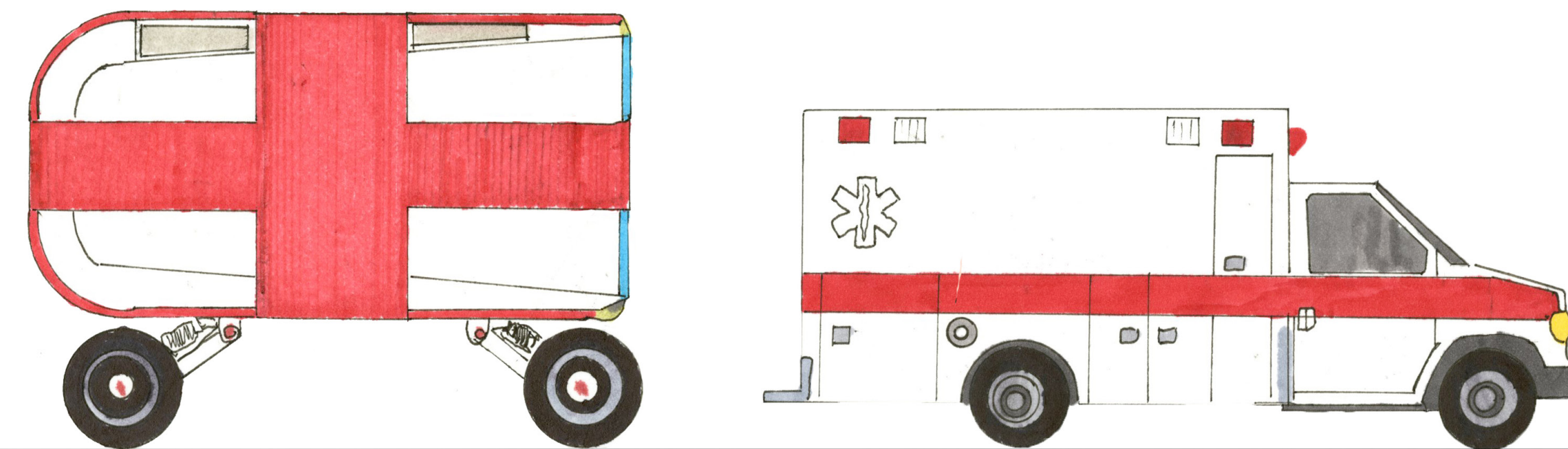
This is an autonomous medical unit, it serves to provide an onsite trauma center to serve patients immediately at the scene of a crisis.



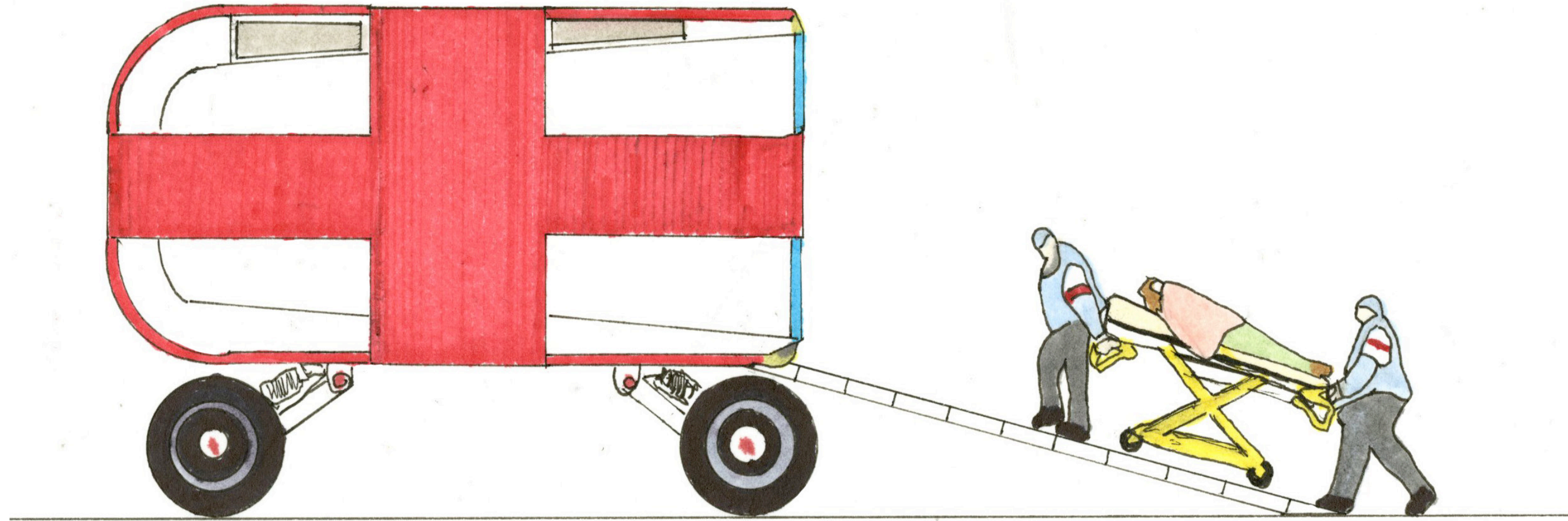
This proposed solution is not about bringing patients to the hospital, but rather bringing the hospital to patients.



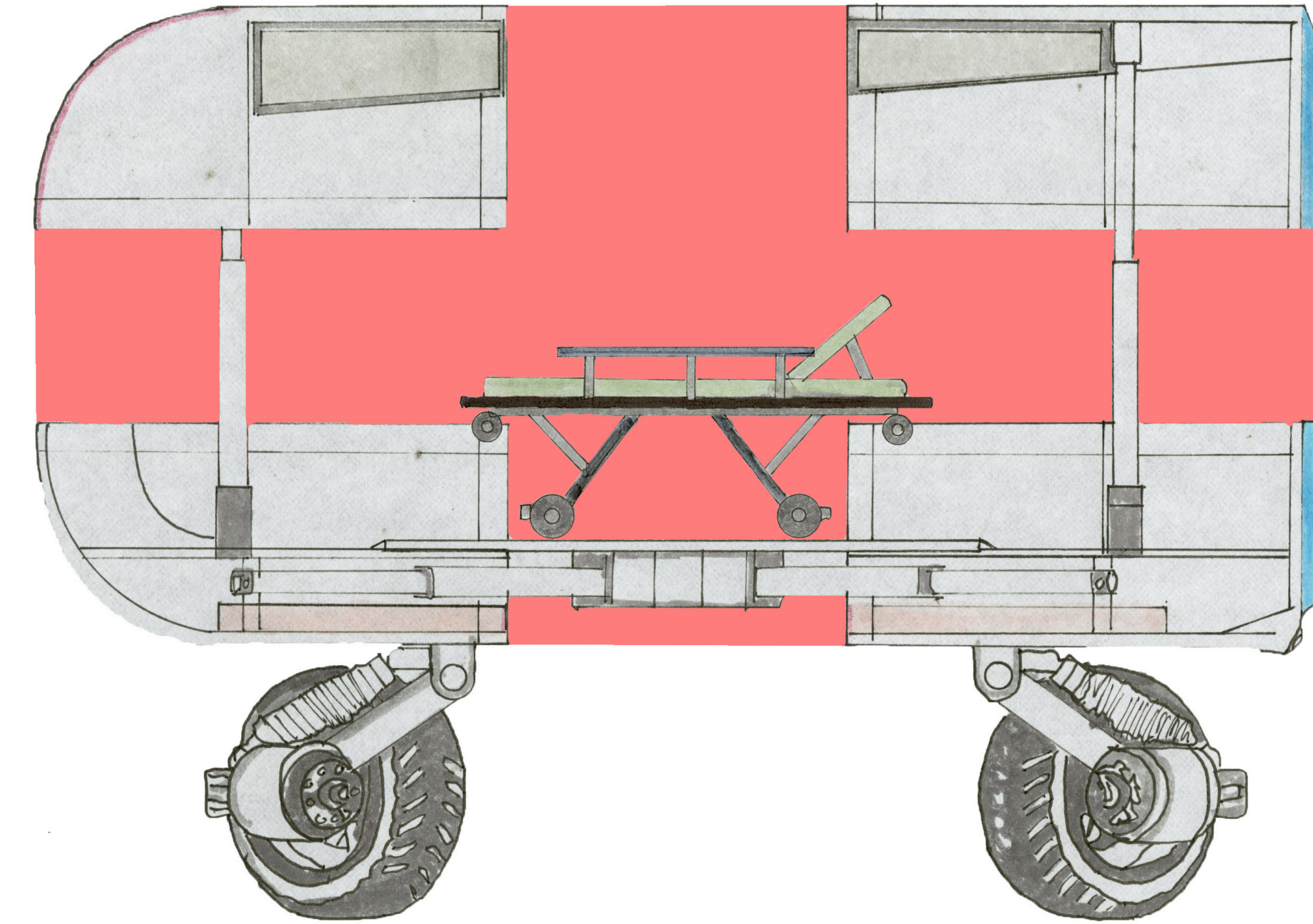
The unit would be a similar scale to traditional ambulances when closed, but provides a better suspension system that could allow for operation outside of city infrastructure



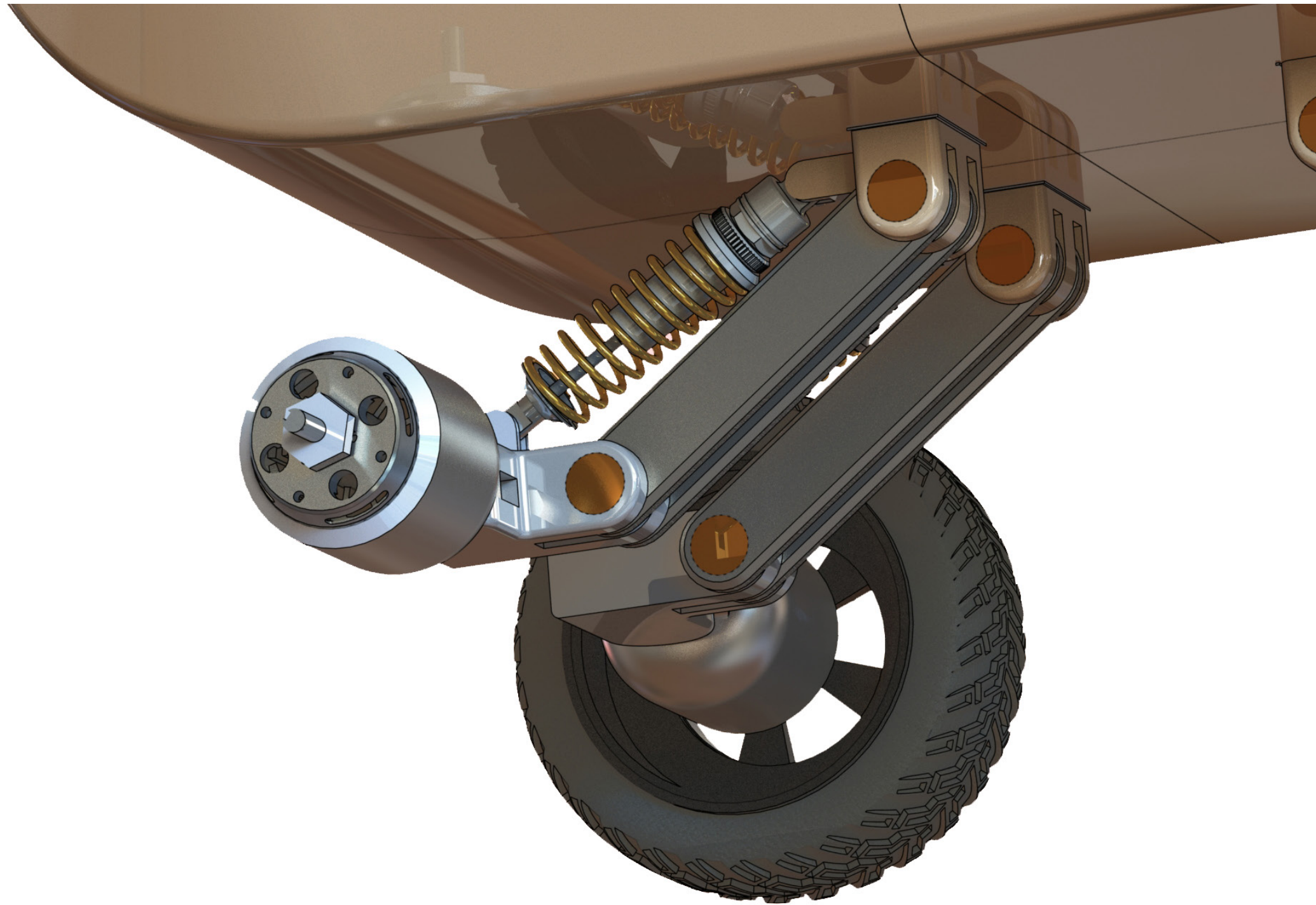
It utilizes linear actuators to double in size, sealing the gaps between panels with an insulated and waterproof fabric. This canopy ensures privacy, while providing a sanitary sealed environment.



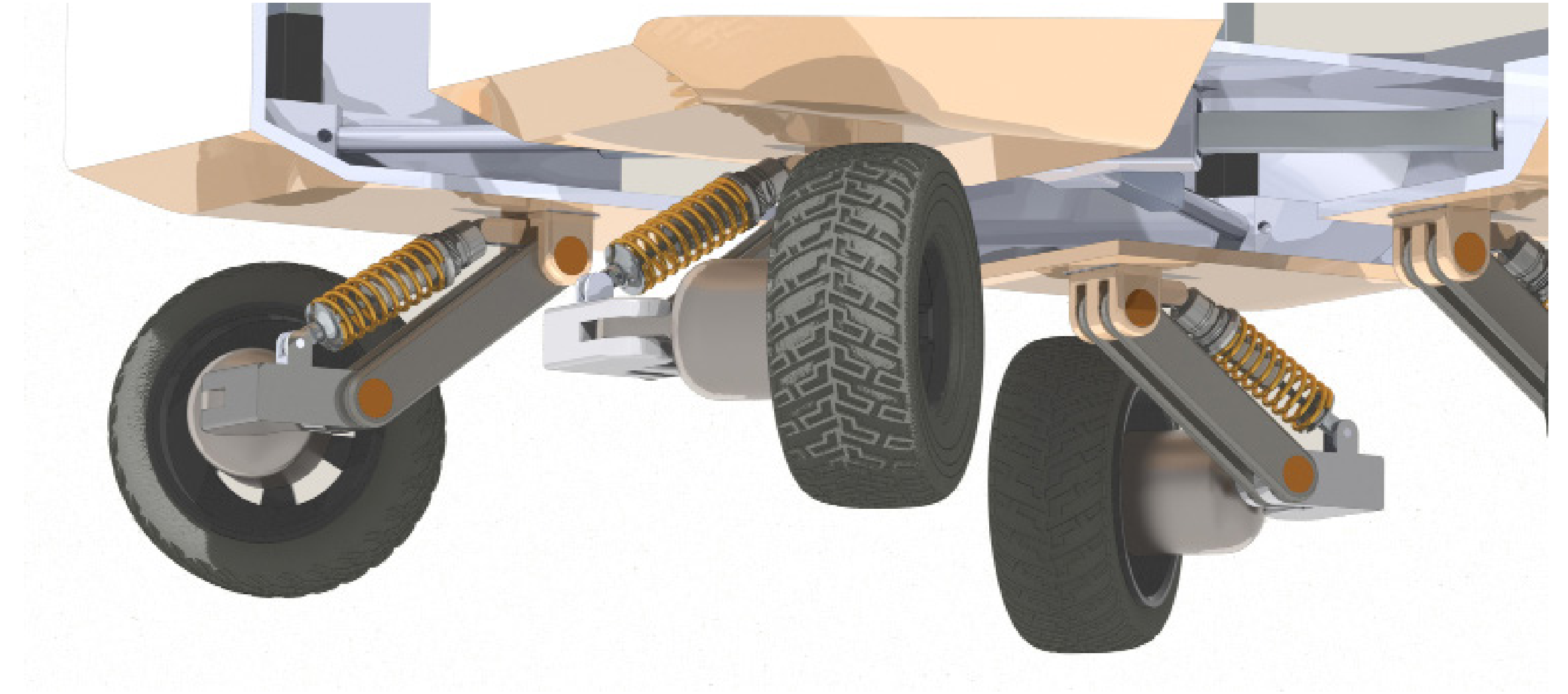
The unit would arrive at the scene, and expand while emergency personnel assess and secure trauma victims. Once fully engaged, medics can load the patient to begin treatment immediately..



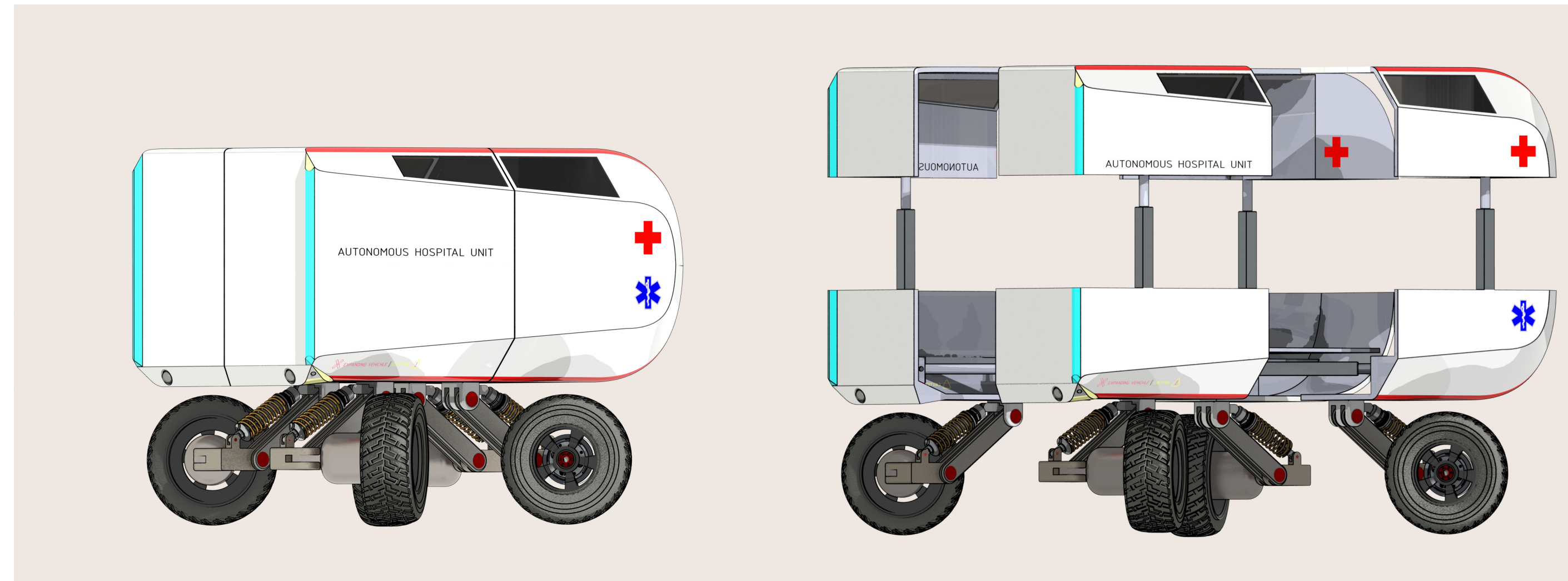
Configuration of the interior would be dependent on the use case, providing ample space for storage and equipment configurations for proposed use.



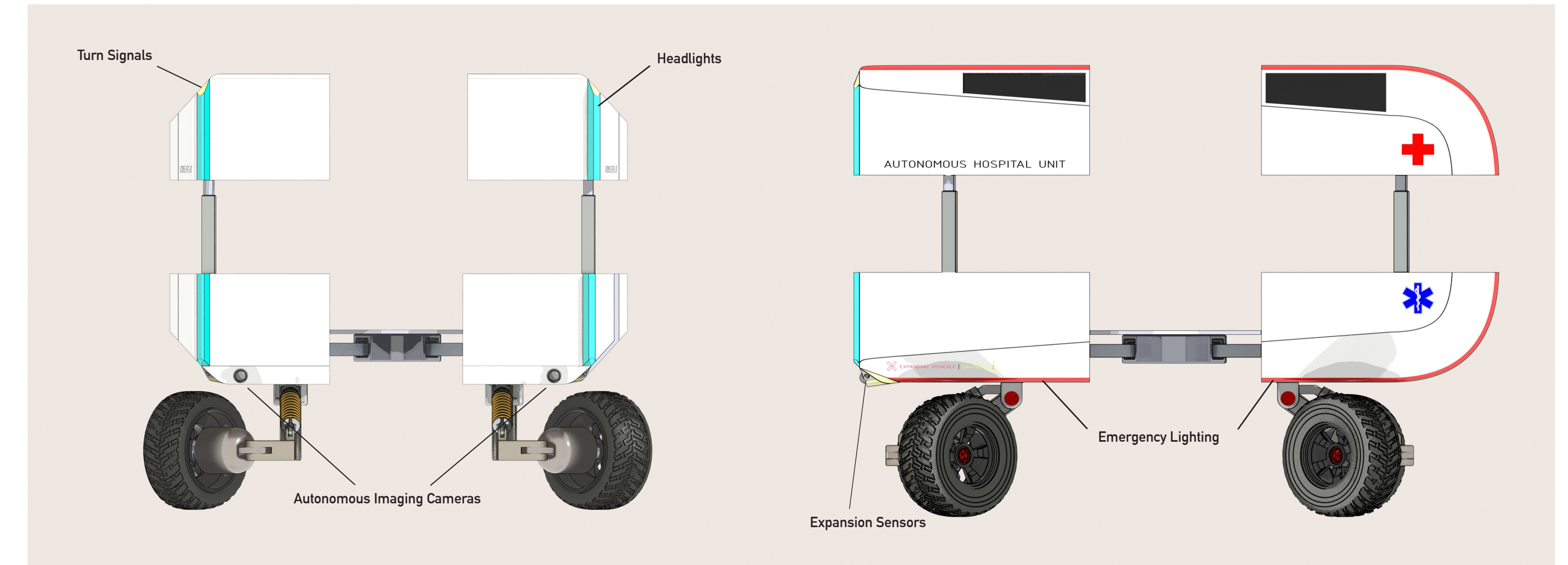
Because the unit separates into multiple sections, it comes equipped with independent electric drive and suspension.



Motorized hinges allow the wheels to rotate 45 degrees in order to drive the expansion mechanism outward. The hinges also solve the steering problem associated with independent drive systems.



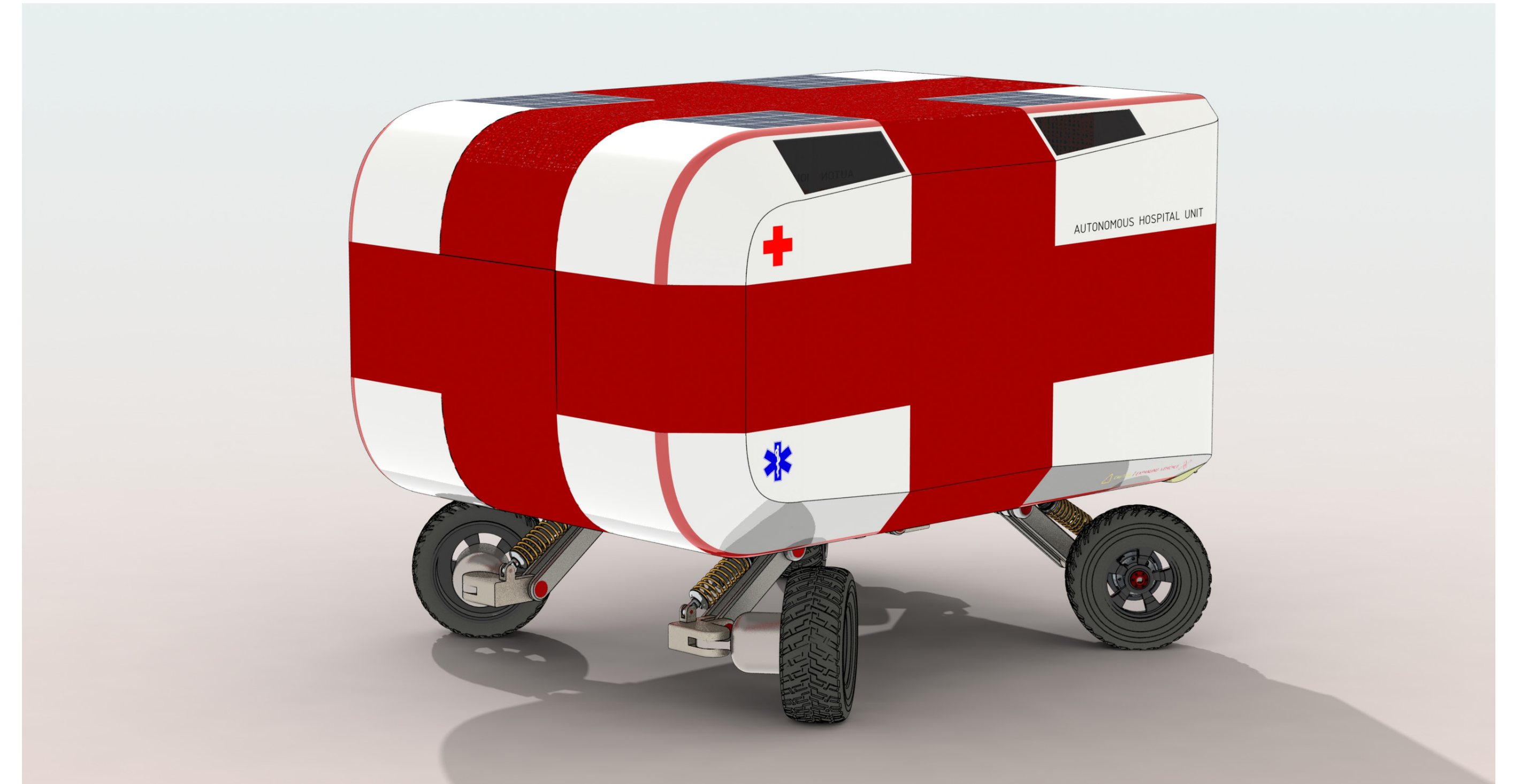
Once all wheels have rotated 45 degrees, the unit senses the surrounding environment. Using equipped imaging technology, it scans its perimeter for any obstructions.



The unit is equipped with many features for environment awareness, for both the system and the people around it.



Visibility is a huge factor in the use case of this system. It should be clearly visible to pedestrians, as well as provide ample work light when treating patients in the dark.



Beyond the realm of immediate trauma, this system could be used to access remote locations or open doors to people who might not otherwise have access to adequate medical assistance.