

AU MedPak

Professors Scott Kramer and Randy Bartlett
College of Architecture, Design and Construction

collaboration

Spring semester, 2018, professors Kramer and Bartlett started the research and design project by putting 14 students from Bartlett's third industrial design studio into four groups and asked each to develop a working prototype.



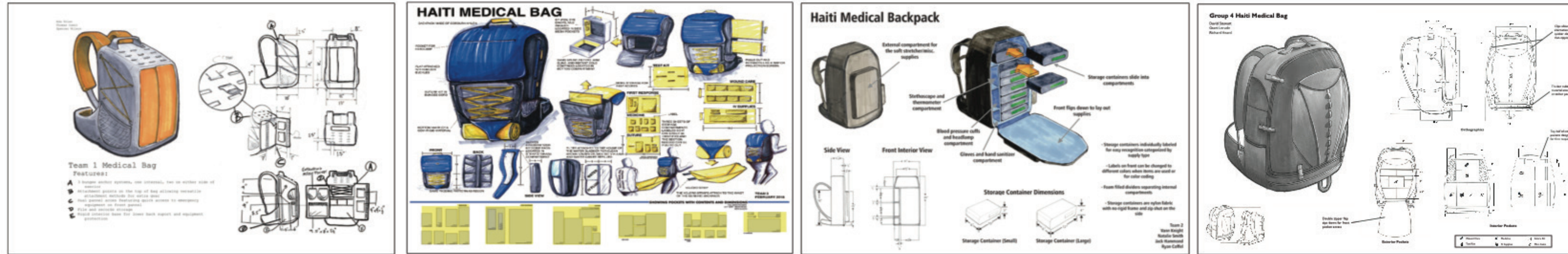
user research

Initial research revealed suitcases, filled with medical equipment was the current practice.



initial concepts

The most promising concept sketches from each team were selected for review by medical missionaries in Haiti.



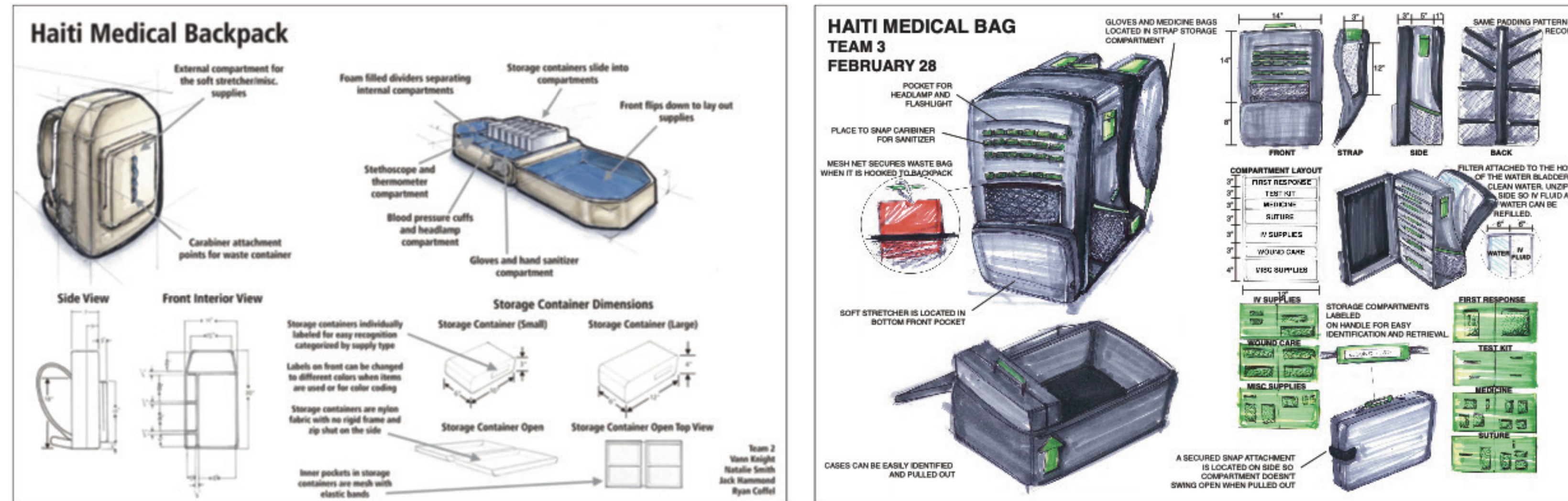
feedback

Kramer took the concept drawings to Haiti and met with medical missionaries. With feedback, Kramer returned to Auburn and conveyed the input to the design teams.



new concepts

Bartlett instructed his students to incorporate the feedback received from Kramer's trip to Haiti. The student's designs were heavily based on human factors, on what the medical missionaries need and want in a medical backpack.



prototypes

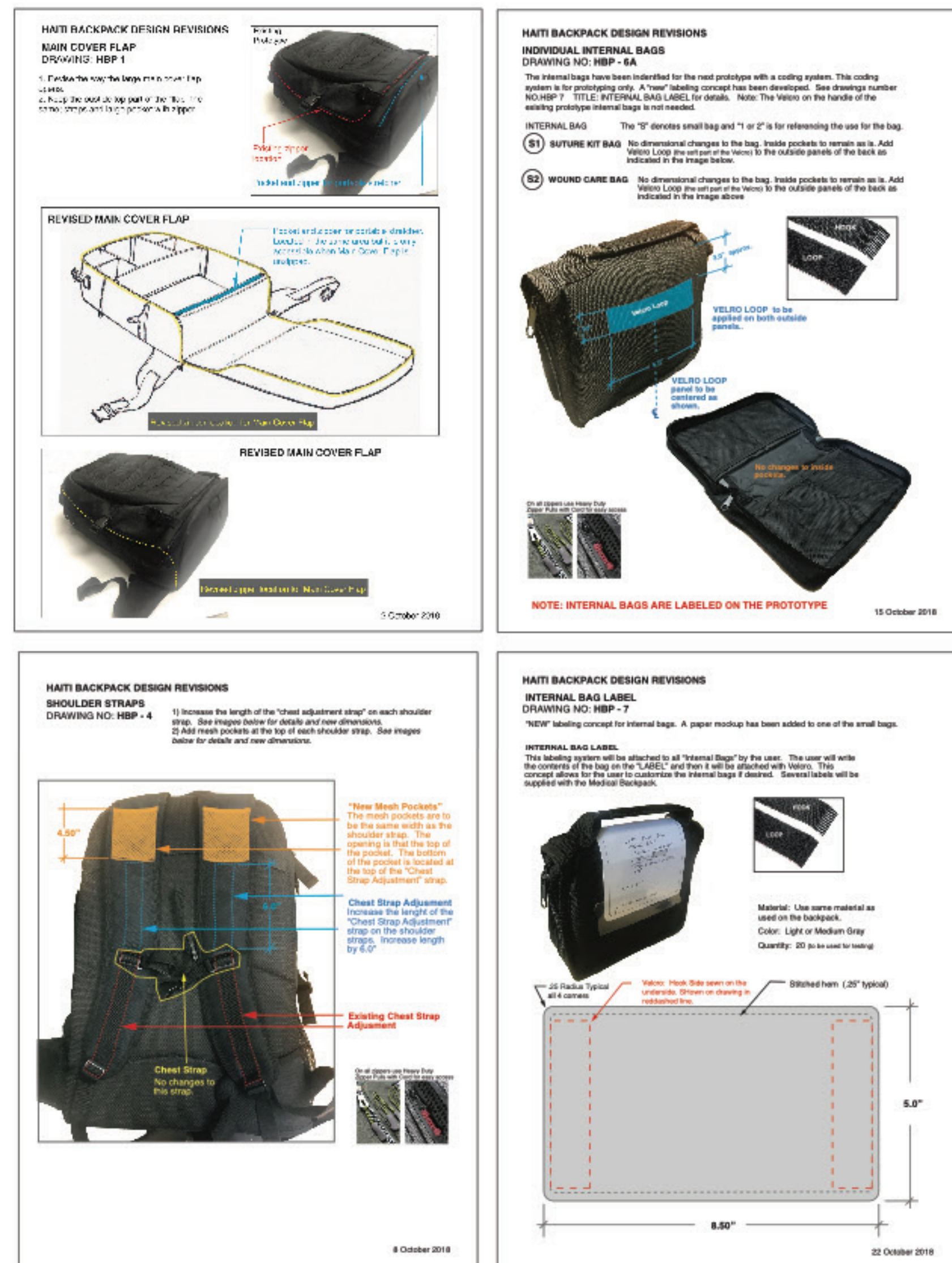
The design teams produced revised concept drawings and information for prototyping. Prototypes were received and evaluated by the design teams.



Kramer and Bartlett took the four prototypes to Haiti for evaluation, and elements from each prototype influenced the next version of the AU Med-Pak.

medpak 1.0

Bartlett produced drawings needed for the new version of the AU Med-Pak and started the second round of prototyping.



field testing

Kramer's field research plan included twelve AU Med-Pak prototypes. Seven of the latest versions are currently in various countries undergoing field-testing.



design solution

The AU Med-Pak holds all the supplies a professional medic needs to treat anything from minor ailments to serious life-threatening illnesses, and it also has diagnostic testing capabilities.

The AU Med-Pak was developed by focusing on the end-user, allowing each medical professional to customize the interior compartment bags.



next phase

Additional research, field testing, and design improvements continue toward the next version, AU MedPak 2.0.

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