

Manufactured construction takes on commercial, office space

Scott Root, **Kitchell Corp.**'s director of virtual construction, and Brent Moszter, its senior project superintendent, lead Kitchell's multi-trade prefabrication shop called Kapture, a 33,000-square-foot center in Tempe where components of major construction projects are built.

The components are manufactured to a customer's specification before being shipped to the building site. Production at the shop includes soffits, walls, framing, electrical, plumbing and drywall.

"If we can do things more safely, more effectively and more efficiently in a controlled environment, we can train the next level of workers on how to do this and it becomes second nature to them," Root said. "With the way the industry is going now and our lack of some skilled trades and the talent pool shrinking, I think the whole industry will be making a bigger movement in this direction in the future."

Kapture's collaborative partner is MKB.

1. Moszter, left, and Root inside Kapture's facility in Tempe.
2. Plans for the construction workers are color coded to make it easy to identify materials.
3. Moszter inspects a completed wall segment and verifies electric and plumbing components.
4. Rodrigo Beltran prepares insulating foam panels for application to the wall segments.
5. Root watches Senior Virtual Construction Engineer Shawn Brown as designs for a new project are conceived.
6. Wilson Electric Services Corp. electrician Joel Romero installs conduit in a wall segment.
7. Carpenters Dominic Silversmith, left, and Norton Becenti frame a wall with metal studs.
8. Completed wall segments are loaded on a trailer and are ready to be driven to the job site.

