



HOUSING OPPORTUNITY CONFERENCE

Innovations in Housing Construction

**DENNIS
STEIGERWALT**

**TREVOR
BARGER**

**ABBY
IVORY**

**MARISSA
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PAUL ZETAH

MODERATOR

MARCH 28, 2023



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Director, Design
KTGY



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Managing Partner
Rancho Sahuarita Company



Dennis Steigerwalt
President
Housing Innovation Alliance

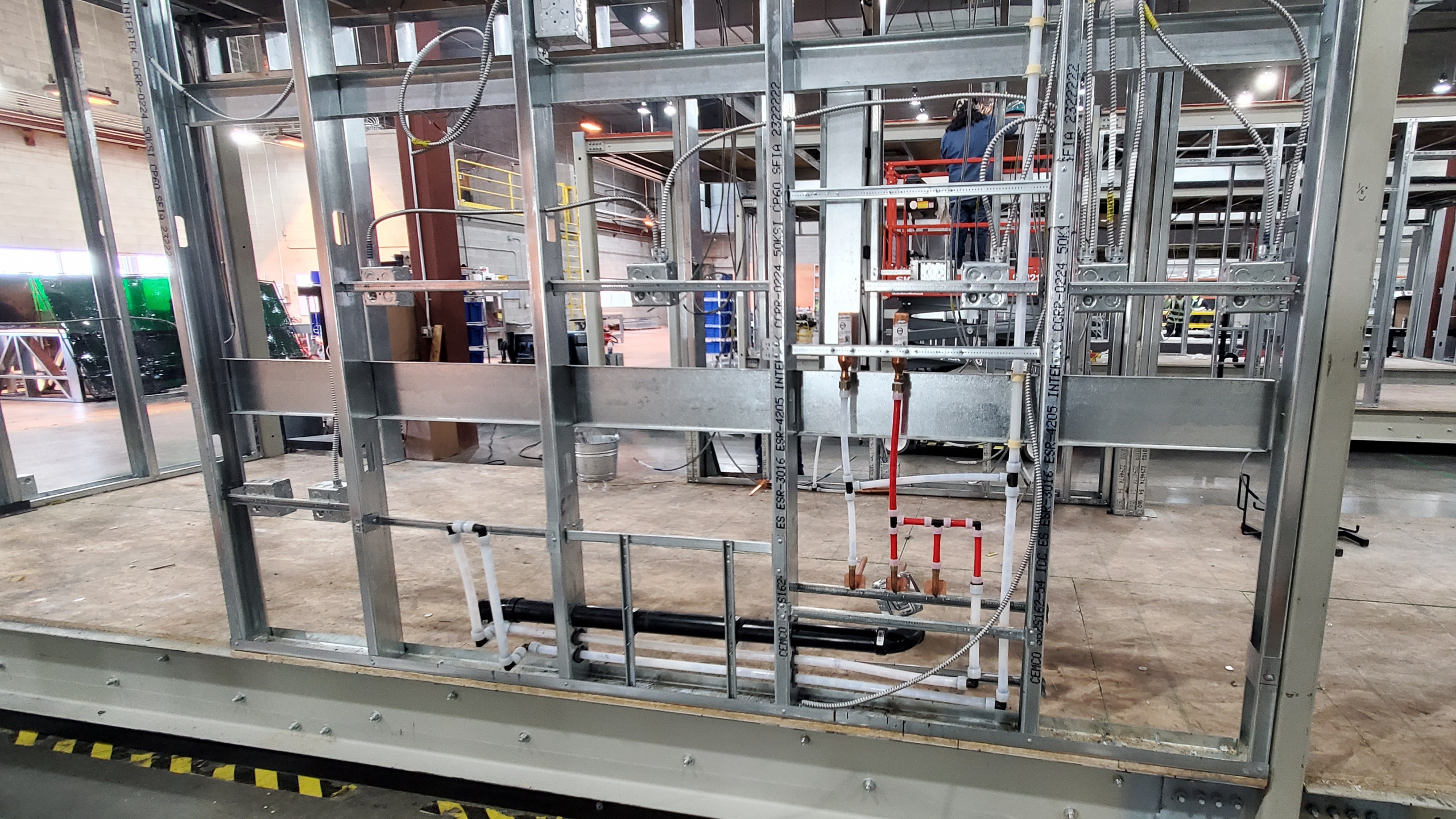


Paul Zetah
Regional President
Century Communities

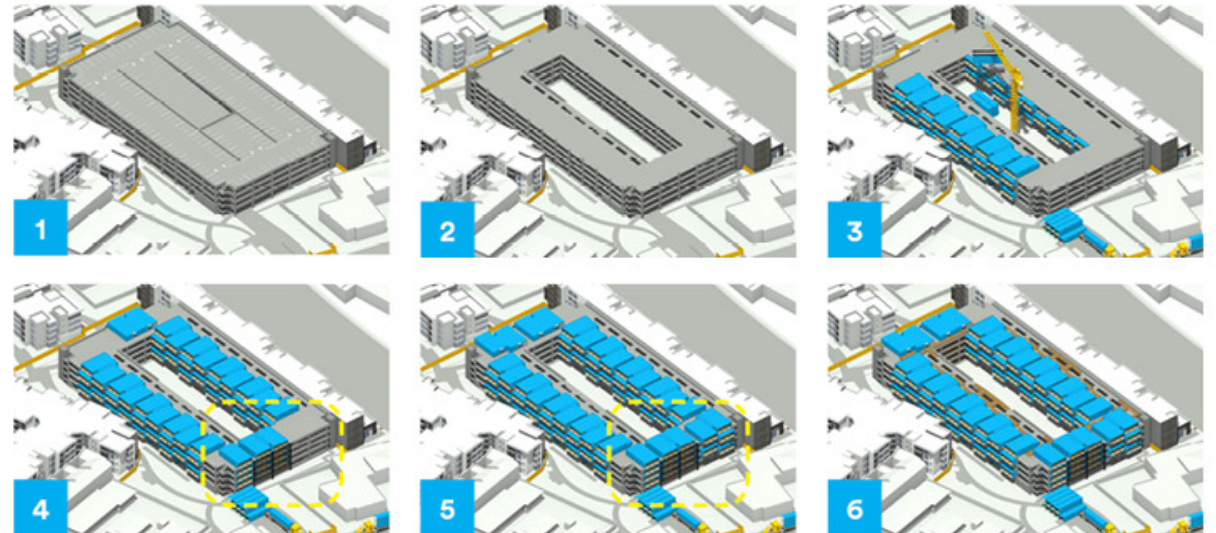
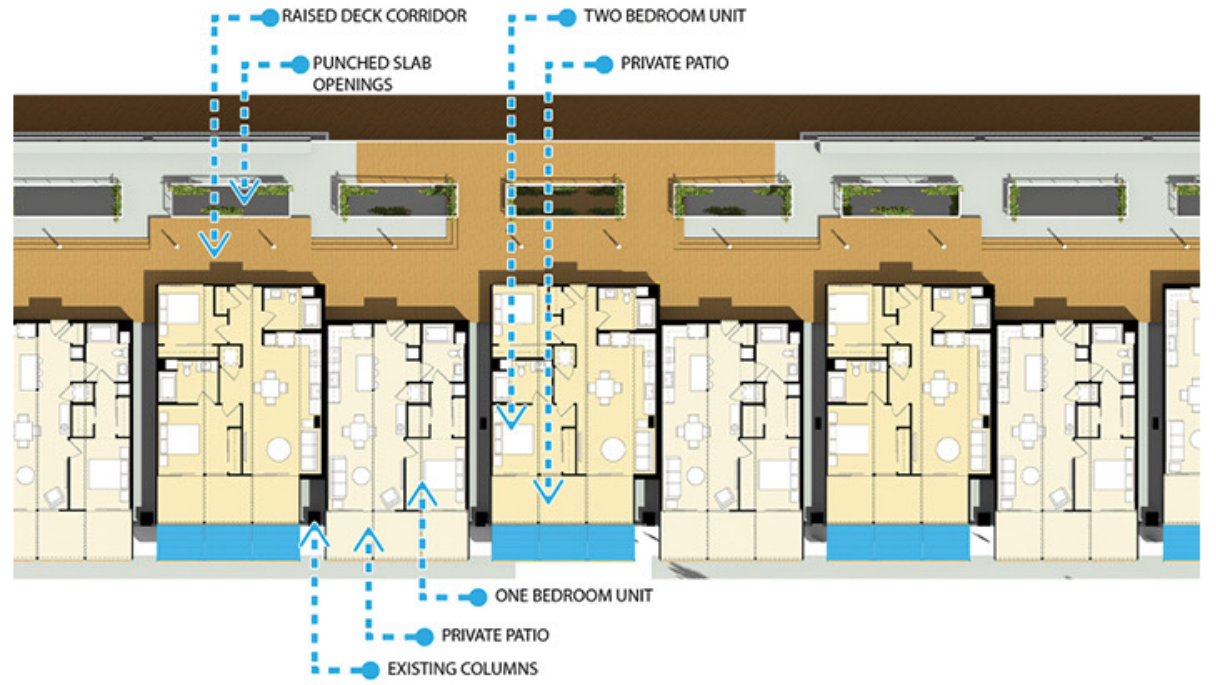








KTGY>>R+D Concept>>Park House



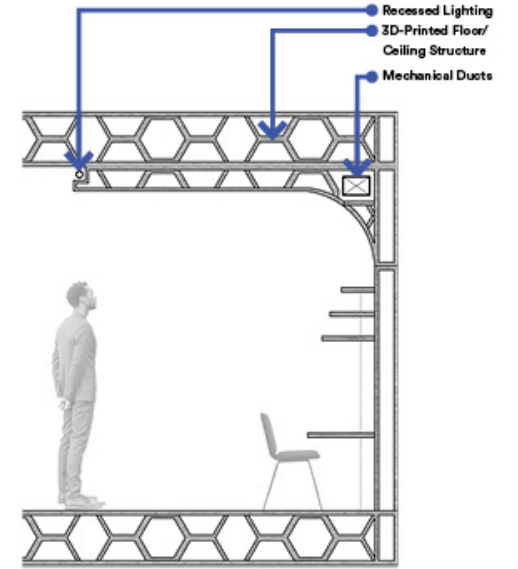
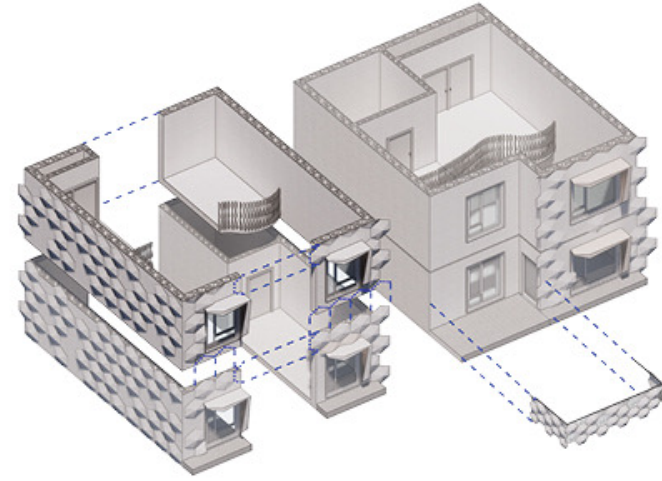
KTGY>>Completed Project>>Hope on Alvarado



KTGY>>R+D Concept>>Mod Hall



KTGY>>R+D Concept>>Hexagon House

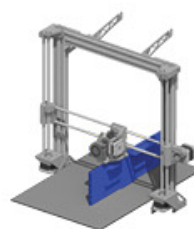


KTGY>>R+D Concept>>Hexagon House

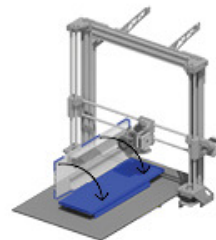


3D-Printed Modular Multifamily Construction Sequence

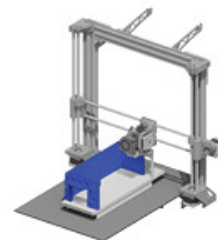
1 Floor/ceiling assemblies printed vertically on 3D printer bed



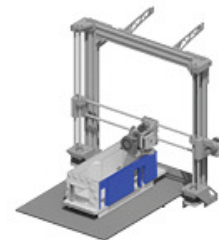
2 Floor assembly tilted down to create flat print bed for exterior and interior walls



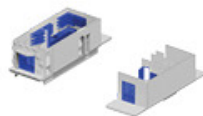
3 Exterior unit walls printed on top of floor surface



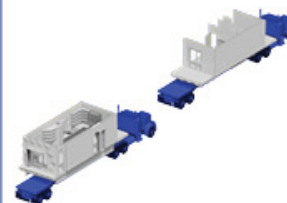
4 Interior unit walls printed



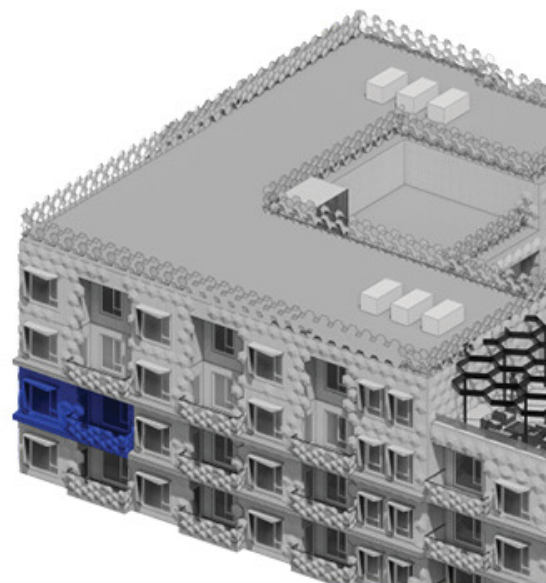
5 Windows, doors, casework and other interior elements installed



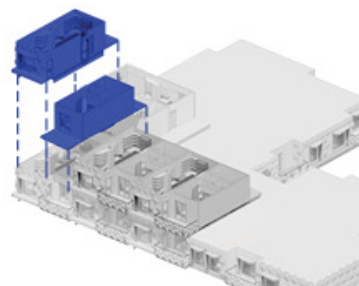
6 Modules transported to project site for assembly



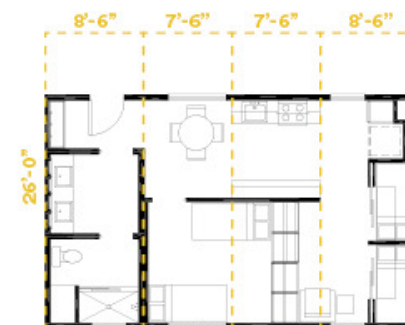
8 3D-printed modules stacked to form on-grade, three- and four-story multifamily buildings



7 Two to three modules assembled to create one dwelling unit



KTGY>>R+D Concept>>The Essential

A detailed architectural rendering of a modern multi-story building. The building features a prominent grid-like facade with large, dark rectangular windows. A series of glass-enclosed balconies or terraces run vertically along one side of the building. The roof is flat and covered with a large array of solar panels. The building is situated in an urban environment, with other buildings visible in the background. The foreground shows a paved area with some trees and a few small figures of people, suggesting a public space or plaza. The overall style is clean and modern, with a focus on geometric forms and sustainable design elements like the solar panels.



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