

3D Printing Homes Impact on the Residential Construction Industry



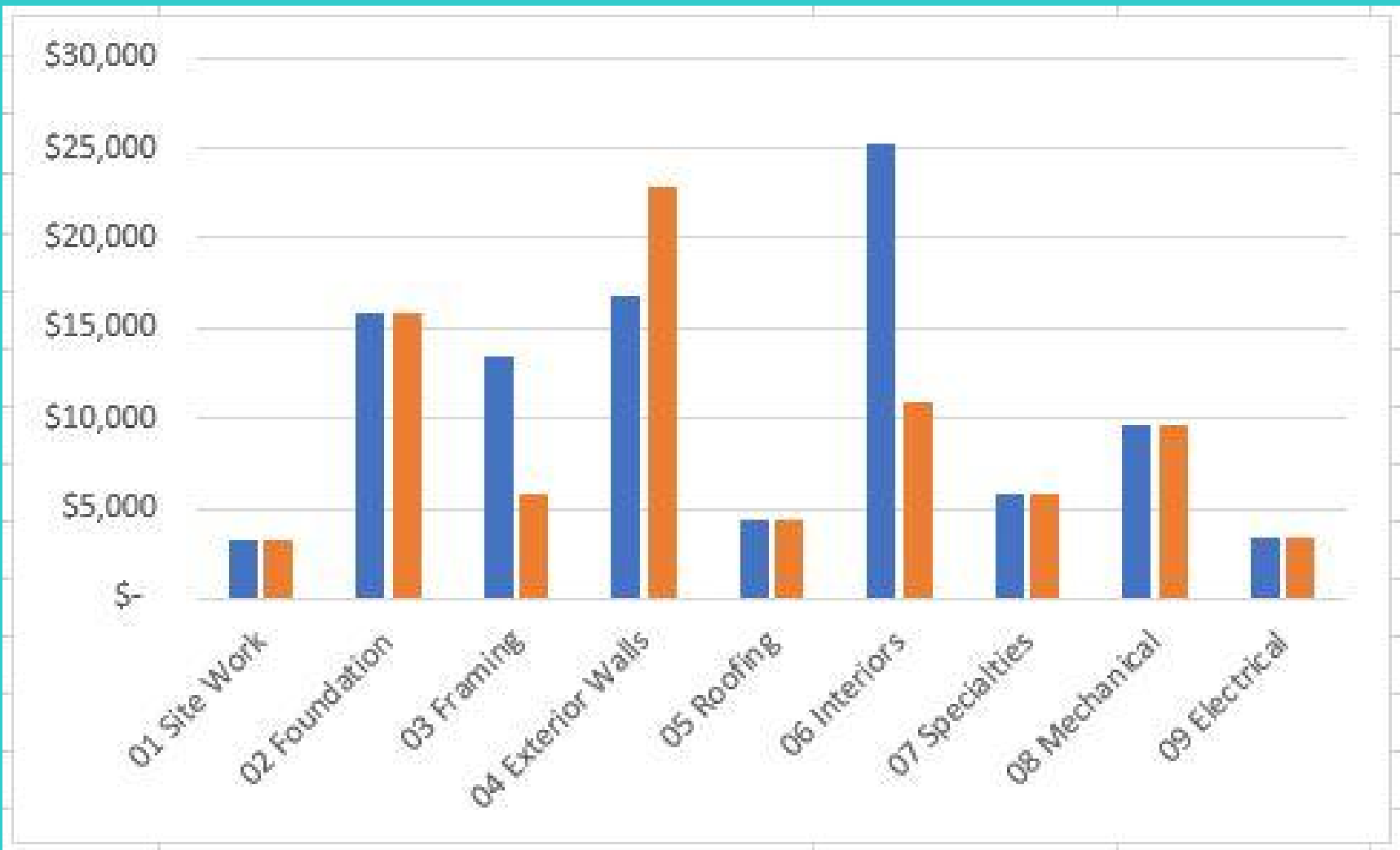
*In Progress 3D Printed Home
*Source: ICON Build Photo Gallery

Construction companies are always looking for ways to reduce costs and shorten schedules and with new technologies there are more and more ways of achieving these goals. One new technology aimed to achieve those goals within the residential construction management industry is the three dimensional (3D) printer. Recently 3D printers have been put to use within the residential construction industry by printing the structures of homes, instead of framing them, at fractions of the cost and time, with greater efficiency, and less labor. 3D printed homes have a tremendous potential to impact impoverished citizens that need the peace and comfort of a roof over their head and a secure place to sleep but will struggle to make a big impact on the majority of homes in the United States. The inability of the 3D homes to reach sizes larger than an apartment (900 square feet) and the lack of an aesthetic appeal that allows for customization damages the homes potential until the technology is improved. With time and technical advancements 3D homes can become the norm of the industry but that won't be for some time as the current kinks and limitations are sorted out.



*First Permitted 3D Printed Home USA
*Source: ICON Build Photo Gallery

Stick Frame	
CSI Code	Average Budget
01 Site Work	\$ 3,168
02 Foundation	\$ 15,765
03 Framing	\$ 13,372
04 Exterior Walls	\$ 16,835
05 Roofing	\$ 4,424
06 Interiors	\$ 25,307
07 Specialties	\$ 5,858
08 Mechanical	\$ 9,633
09 Electrical	\$ 3,336
Total Building Cost	\$ 97,698



Compared Costs of Homes

3D Printed	
CSI Code	Average Budget
01 Site Work	\$ 3,168
02 Foundation	\$ 15,765
03 Framing	\$ 5,868
04 Exterior Walls	\$ 22,912
05 Roofing	\$ 4,424
06 Interiors	\$ 10,881
07 Specialties	\$ 5,858
08 Mechanical	\$ 9,633
09 Electrical	\$ 3,336
Total Building Cost	\$ 81,845