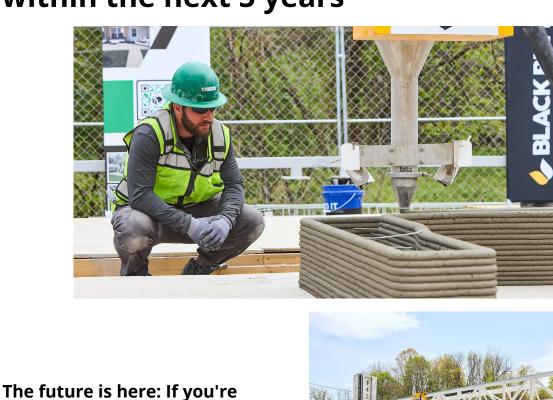
INSIDER

See how a huge 3D printer is going to build 200 concrete homes in Virginia's tech hub within the next 5 years



moving to Virginia's booming tech hub in the next few years, your new home could be 3Dprinted.

growing hub of manufacturing and tech jobs.

"Project Virginia" will be the world's largest 3D-printed

Alquist...

construction project, according to

This isn't the 3D printing home

And now, it's bringing its tech across the state to southwest Virginia, the home of

community.

follow.

A couple hundred homes isn't enough to satisfy the state's housing demands, but "the need is so great, Alquist wants to make an impact as quickly as possible,"

According to Alquist, over 3,000 jobs will flood the area within the next five years and the need for additional housing will inevitably

When the project is complete, the printed units will span across six or seven communities, Mannheimer said.

Despite the futuristic building process, these upcoming homes will look similar to a traditional

single-family unit. The most

layered walls.

noticeable difference will be the

picturing this, Project Virginia's units will look similar to the threebedroom, two-bathroom Habitat for Humanity home shown below, a spokesperson told Insider.

Alquist will deploy six of Black **Buffalo 3D's Nexcon printers to** build the walls of these homes.

After the walls have been printed, the remainder of the home will be completed "traditionally."

"We are replacing human jobs with robots and there's no way around that," Mannheimer said, noting that the company is rolling out

vocational programs at local schools to grow its workforce.

has yet to reach its full potential.

A home that takes six to seven

within five to six months.

months to build "traditionally" can instead be printed and completed

The units will still be less expensive compared to traditionally constructed homes but the price cut isn't dramatic yet.

And as of now, the tech isn't

companies have been

experiencing.

immune to the same supply chain and staffing issues construction

Creating a home out of printed concrete may seem too futuristic to comprehend, but by 2025, Mannheimer predicts we'll be

seeing a printer at every

construction site.

commercial and residential

be 3D printed than built traditionally.

By 2027, he says more homes will

In late April, Alquist announced plans to build 200 3D printed homes over the next four to five years around Pulaski, Virginia, a

Volvo's and a booming tech

Zack Mannheimer, the company's CEO, told Insider. The company will begin work on **Project Virginia this summer** starting with 1,280-square-foot three-bedroom, two-bathroom homes.

If you're having a hard time

Once placed on a track, the printers will print several homes at the same time by excreting reinforced concrete in a layered and uniform pattern.

several weeks, according to Mannheimer.

AThe exterior walls of a 1,500-

square-foot home can be printed within 20 to 30 hours, cutting the time it takes to build a home by

These words are enough to make any developer overjoyed amid our housing crisis, but the nascent tech

Proponents of 3D printing homes like Mannheimer believe the tech

can cut building time, costs, waste,

and physical labor.

Mannheimer says Alquist isn't there yet.

The goal is four months, but

to scale its use of 3D printers, the more affordable these homes will continue to become, according to Mannheimer.

But the more companies continue

If you're not in Virginia, you could still see a printed concrete abode near you soon.

Icon will begin construction on its 100-home community in Austin,

Texas this year, and Alquist is now considering similarly sized projects in six other states. These projects will be announced in the coming

months.

... toppling the previous record held by Icon's upcoming 100-home community in Austin, Texas. construction company's first project in Virginia. In 2021, Alquist partnered with Habitat for Humanity to create a 3D printed concrete home for a family in eastern Virginia. manufacturing facilities like

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