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The FANWALL® Smart Cube places active control components at the point of service, where they are wired for quick connection to power at the control panel. Integral to this approach is the FANWALL Variable Frequency Drive (VFD), designed specifically for seamlessly mounting at the FANWALL cube and including an integrated bi-directional pressure transducer, MCP disconnect and touch screen controls. The FANWALL Smart Cube offers... [More>>>](#)

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Box-Jacking Operation Moves Rail Underpass in a Weekend



When the Long Island Rail Road considered its options for moving multiple rail crossings below grade, it was anticipating weeks-long service disruptions. But an innovative method developed by an Italian engineer, never before deployed in the U.S., allowed it to put each new underpass in place with only a weekend shutdown.

The box-jacking system from Italy-based Petrucco uses hydraulic jacks and spreaders to move a cast-in-place concrete box carrying the entire underpass and rail bridge into place in a matter of hours, with limited disruption to railway traffic. [More >>>](#)

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Building materials come alive with help from bacteria



University of Colorado Boulder researchers have developed a new approach to designing more sustainable buildings with help from some of the tiniest contractors out there.

In a study that appeared Jan. 15 in the journal *Matter*, engineer Wil Srubar and his colleagues describe their strategy for using bacteria to develop building materials that live and multiply -- and might deliver a lower carbon footprint, to boot. [More >>>](#)

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Toyota unveils plan to build 'City of the Future' in Japan



Today at CES, Toyota revealed plans to build a prototype "city" of the future on a 175-acre site at the base of Mt. Fuji in Japan.

Called the Woven City, it will be a fully connected ecosystem powered by hydrogen fuel cells.

Envisioned as a "living laboratory," the Woven City will serve as a home to full-time residents and researchers who will be able to test and develop technologies such as... [More >>>](#)

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