

Hyperloop Among Jacobs-Supported Solutions Revolutionizing Transportation

2018-07-19

Jacobs Connected Enterprise Solutions combine digital intelligence with human ingenuity for smart, sustainable transportation systems

DALLAS, July 19, 2018 /PRNewswire/ -- As SpaceX's **third Hyperloop Pod Competition** gets underway this weekend, **Jacobs Engineering Group Inc.** (NYSE:JEC) is at the forefront of this revolutionary transit, sponsoring the Delft University of Technology Hyperloop team's Atlas01 vehicle.

Using near-vacuum tubes, Hyperloop vehicles are envisioned to safely carry people or cargo at speeds up to 700-miles-per-hour, while being more energy efficient, environmentally friendly, sustainable and more convenient than air travel. In addition to joining the sponsors of the Atlas01 vehicle, Jacobs is helping several U.S. cities explore technical feasibility for potential Hyperloop routes.

"The common chord among the most transformative initiatives like Hyperloop is that they start with vision," said Jacobs Chairman and CEO Steve Demetriou. "That enables us to address converging challenges of urbanization, resource impacts and the demand for clean, efficient transportation in an integrated way, with smart, sustainable solutions."

By 2019, IDC Research **estimates** that 40 percent of local and regional governments will use the Internet of Things to turn infrastructure such as roads, streetlights and traffic signals into assets instead of liabilities. Millennials are **up to five times** more willing to use ride share services than preceding generations and a "fifth mode of transportation" is revolutionizing plans for the future.

"Every day, we challenge ourselves to create transportation systems that are smarter and more resilient, while also

accounting for future urbanization," said Jacobs Global Director of Transportation and Vice President Kevin Slack. "We aren't just thinking about this; we are implementing transformative solutions in the transportation sector today, capitalizing on everything from real-time data and sharing apps to leading environmental practices and automation to relieve congestion, and enhance the safety, quality and efficiency of multimodal transport."

At the forefront of these trends, Jacobs is piloting mobility-focused solutions to deliver smart, connected improvements, such as:

Expanded options

- Partnering with Port of Los Angeles for engineering design of the first fully-automated terminal on the U.S. West Coast, **Jacobs helped the port** become one of the first in the country to explore robotic cargo handling equipment to increase throughput and optimize movement of goods ahead of expected doubling of global maritime trade in the coming decades.
- At the world's most-traveled airport, **survey drones are helping guide maintenance and plans** for the mega-modernization effort underway at Hartsfield-Jackson International in Atlanta. Jacobs is providing construction management services for the multi-billion-dollar program, which includes projects to boost capacity, renew and replace existing facilities, accommodate next-generation aircraft and enhance the airport's aesthetic appeal.

Smoother journeys

- In New South Wales – a region expected to add an additional million to its population in the next 20 years – a 20-year strategic plan guides investment and prioritization for Smart Motorway schemes that use low-cost intelligent technology to monitor traffic conditions, manage congestion and respond to incidents in real time.
- **A cloud-based customer service platform** allows travelers a quick and effective outlet to report issues (such as potholes or roadkill) and receive schedule and travel impact updates on more than 2,000-miles of highway in East Sussex, England.
- Solutions **like Transport for London's** – that crunch aggregated data from mobile phones, cycling apps, smart cards, social media and GPS – help our customers reliably assess their most critical system maintenance needs and implement changes that promote increased efficiencies and ease of use.

Smarter options

- In Canada, the company **led the charge** to explore possibilities of powering the country's largest commuter

transit system with hydrogen fuel-cell technology as a clean, efficient energy choice, while also enabling faster, more frequent service.

- Helping an automaker go the extra mile, Jacobs is designing a rolling road wind tunnel with a state-of-the-art climatic chamber as part of a new test facility for aerodynamic testing of new vehicles to help meet demand for greater fuel efficiency and performance. The company also works with all major car manufacturers, including Formula One and NASCAR to enhance vehicle performance.
- A **fully-immersive virtual reality environment** transported the South Wales community onto approximately 18 kilometers of road, 114 square miles of accurate terrain and 5,000 modelled building structures, enhanced with animated vehicle traffic, environmental sounds and animated foliage growth over 15 years. The VR solution helped the community visualize and better understand the A465 Heads of Valley Scheme's impacts on people, property and the environment.
- Helping locations in the U.S. and around the world **pave the way for integration of autonomous and connected vehicles**, helping unlock a host of benefits such as reduced accident rates; improved access to healthcare, job opportunities and social interaction; increased mobility and maximized efficiency of traffic flow.

Interested in learning more about how Jacobs drives mobility efficiencies using leading-edge solutions? Visit www.jacobs.com.

Jacobs leads the global professional services sector delivering solutions for a more connected, sustainable world. With \$15 billion in fiscal 2017 revenue when combined with full-year CH2M revenues and a talent force of more than 77,000, Jacobs provides a full spectrum of services including scientific, technical, professional and construction- and program-management for business, industrial, commercial, government and infrastructure sectors. For more information, visit www.jacobs.com, and connect with Jacobs on **LinkedIn, Twitter, Facebook** and **Instagram**.

Forward-looking statements

Statements made in this release that are not based on historical fact are forward-looking statements. We base these forward-looking statements on management's current estimates and expectations as well as currently available competitive, financial and economic data. Forward-looking statements, however, are inherently uncertain. There are a variety of factors that could cause business results to differ materially from our forward-looking statements. For a description of some of the factors which may occur that could cause actual results to differ from our forward-looking statements please refer to our Form 10-K for the year ended September 29, 2017, and in



particular the discussions contained under Items 1 - Business, 1A - Risk Factors, 3 - Legal Proceedings, and 7 - Management's Discussion and Analysis of Financial Condition and Results of Operations. We do not undertake to update any forward-looking statements made herein.

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