FAST FACTS

LEAD MEMBER:
GE

SUPPORTING MEMBERS:
Cisco, Accenture, Bayshore Networks

CHALLENGE:
Enabling seamless machine-2-machine communications and data transfer across connected control systems, big infrastructure products, and manufacturing plants.

SOLUTION:
The 100 gigabit capability extends to the wireless edge through advanced communications techniques. This allows industries to provide more data and analytical results to their employees in the field using smart devices for greater analytical insights.

**COMMERCIAL BENEFITS:**

With the new 100 gigabit lines, industries can instantaneously connect and control machines located thousands of miles away.

**THE TESTBED**

The High-Speed Network Infrastructure testbed will introduce high-speed fiber optic lines to support Industrial Internet initiatives. The network will transfer data at 100 gigabits per second to support seamless machine-2-machines communications and data transfer across connected control systems, big infrastructure products, and manufacturing plants.

The 100 gigabit capability extends to the wireless edge, allowing the testbed leaders to provide more data and analytical results to mobile users through advanced communication techniques. Industrial Internet Consortium founder, GE, is leading efforts by installing the networking lines at its Global Research Center. Cisco - also a founder of the Consortium - contributed its expertise to the project by providing the infrastructure needed to give the network its national reach. Industrial Internet Consortium members Accenture and Bayshore Networks are currently demonstrating the application of the High-Speed Network Infrastructure for power generation.

Interested in learning more about the High-Speed Network Infrastructure testbed? Email us!

**RESOURCES**

- GE Unveils High-Speed Network Infrastructure to Connect Machines, Data and People at Light Speed to the Industrial Internet
- Bayshore Networks is Demonstrating Industrial IoT Cybersecurity on GE's High-Speed Testbed
demo provides an outstanding example of big data analytics through the high-speed infrastructure so that transmission data from California was able to be monitored in real-time in Niskayuna, New York.