

Press release

## **RTI Joins the Baidu Apollo Autonomous Driving Partner Ecosystem**

RTI Connex Drive Brings Performance and Reliable Communications to the Apollo Enterprise Platform

**SUNNYVALE (USA)/London, July 28, 2020 – Real-Time Innovations (RTI), the largest software framework provider for smart machines and real-world systems, today announced it has joined the Baidu Apollo autonomous driving partner ecosystem. Apollo is Baidu's open-source full-stack software solution for driverless vehicles. RTI joins with an elite group of OEMs, Tier 1 suppliers, developer platforms and startups, in a joint effort to accelerate the development and adoption of autonomous driving on the Apollo driverless operating platform.**

Baidu started working on autonomous driving technology in 2013, and its Apollo has become the world's largest open-source autonomous driving platform. With a robust global ecosystem of nearly 200 partners, Apollo has obtained 1,598 patents and completed more than 6 million kilometers of road tests. In March 2020, NR, the global research organization, listed Apollo as one of the four leaders in autonomous driving in the world.

In a statement, Wang Yunpeng, Senior Director of the Technology Department of Baidu's Intelligent Driving Group, said that as the world's leading Industrial Internet of Things (IIoT) connectivity solution provider, RTI provides key solutions to enhance the robustness and stability for autonomous driving technology. Baidu welcomes RTI in its Apollo autonomous driving partner ecosystem and hopes the cooperation will create new breakthroughs in technology.

**Apollo Valet Parking (AVP)**, designed for the private car industry and even car sharing companies, empowers vehicles with the ability to fulfill remote car retrieval, remote car automated parking, self-detective parking spots and even low-speed cruise, while greatly improving the parking experience for car drivers. Today, AVP is required by more car OEMs as a new feature. The

Baidu AVP solution consists of software including sensing, perception, planning and control. Baidu also developed a domain controller called Apollo Computing Unit (ACU), integrated with RTI Connex Drive™ software, that is aimed at mass production projects to provide the full stack capability for car OEMs.

**RTI Connex Drive**, based upon the open Data Distribution Service™ (DDS) standard, is a software framework that enables superior communications reliability, a critical factor in the development and operation of autonomous vehicles. With Connex Drive, manufacturers can be more responsive and innovative in this fast-changing market. They get more value out of their applications by using a data-centric framework that supports their needs now and in the future. Connex Drive builds on proven RTI technology already used in over 250 autonomous vehicle programs around the world, as well as over 1,500 other demanding, real-time, intelligent distributed systems.

“The autonomous vehicle market has experienced rapid growth in the last several years. We developed RTI Connex Drive to give our customers and partners the tools to solve complex autonomy challenges,” said Bob Leigh, Senior Market Development Director, Commercial at RTI. “In joining the Apollo ecosystem, we are looking forward to conquering the challenges hindering autonomous vehicle deployment and adoption as we move into the next phase of autonomy.”

Read more about RTI's work in the autonomous driving industry [here](#).

**Picture (source: RTI/Baidu):**



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**About RTI (www.rti.com):**

Real-Time Innovations (RTI) is the largest software framework provider for smart machines and real-world systems. The company's RTI Connex<sup>®</sup> product enables intelligent architecture by sharing information in real time, making large applications work together as one.

With over 1,500 deployments, RTI software runs the largest power plants in North America, connects perception to control in vehicles, coordinates combat management on US Navy ships, drives a new generation of medical robotics, controls hyperloop and flying cars, and provides 24/7 medical intelligence for hospital patients and emergency victims.

RTI is the best in the world at connecting intelligent, distributed systems.

These systems improve medical care, make our roads safer, improve energy use, and protect our freedom.

RTI is the leading vendor of products compliant with the Object Management Group<sup>®</sup> (OMG) Data Distribution Service<sup>™</sup> (DDS) standard. RTI is privately held and headquartered in Sunnyvale, California with regional headquarters in Spain and Singapore.

Download a free 30-day trial of the latest, fully-functional Connex DDS software today: <https://www.rti.com/downloads>.

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