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CARL DATA SOLUTIONS COMPLETES CUSTOM CONTROL SYSTEM TO REFINE MACHINE LEARNING

November 23, 2017 -Vancouver, British Columbia - Carl Data Solutions Inc. (CSE:CRL, FSE:7C5, OTC:CDTAF) ("Carl" or the "Company"), a developer of Big-Data-as-a-Service ("BDaaS")-based solutions for data integration, business intelligence, and Industrial Internet-of-Things ("IIoT") applications, has completed its custom closed control system as part of its EU Grant funded research for monitoring wastewater infrastructure and refining their machine learning products.

This low-power high-precision system was designed and built by Attila Bene, Head of Hardware and Telemetry at Carl Data. The control system creates a circulating water supply that is monitored by four accelerometers based on the most current technology available. With decades of experience building control systems for industrial environments, such as natural gas pump stations, Bene's background allows him to build the detailed hardware environment needed for Carl Data's data scientists to continue developing breakthrough machine learning abilities for their software.

Bene commented, "It's great to be able to apply my engineering and design skills to create such a powerful learning and analysis tool. Sensors and control systems are becoming more effective at monitoring infrastructure all the time, and this project will be a great example of how that data can be used."

Carl Data's EU Grant research will explore ways in which machine learning can precisely monitor and analyse the vibration of pipelines for analysis. This predictive maintenance of infrastructure can prevent possible disaster during extreme weather events, saving cities, utilities and businesses millions of dollars. Sensor anomaly detection is another key area of machine learning that will benefit from continued development in a controlled test environment.

Piotr Stepinski, Carl Data CTO, commented, "Machine learning is a type of artificial intelligence where you train a computer program. With this high-precision testing tool,

we will be able to train some of the most powerful machine learning applications for wastewater ever developed."

About Carl Data Solutions Inc.

Carl Data Solutions Inc. is focused on providing next generation information collection, storage and analytics solutions for data-centric companies. Building on its recent acquisitions, Carl helps its clients analyze and understand all forms of environmental data through a powerful platform of data collection, monitoring, analysis and reporting tools.

Carl Data continues to develop applications to work with new cloud-based mass storage services and analytics tools (Big-Data-as-a-Service (BDaaS) to provide scalability for municipalities, utilities and other industrial verticals. These data collection and storage methods allow the company to build smart Software-as-a-Service (SaaS)-based applications that can collect data from many diverse sources and provide deep insight for decision-making purposes. More information can be found at www.CarlSolutions.com.

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The Canadian Securities Exchange (operated by CNSX Markets Inc.) has neither approved nor disapproved of the contents of this press release.

Disclaimer for Forward-Looking Information

Certain statements in this press release are forward-looking statements and are prospective in nature. Forward-looking statements are not based on historical facts, but rather on current expectations and projections about future events, and are therefore subject to risks and uncertainties which could cause actual results to differ materially from the future results expressed or implied by the forward-looking statements. These statements generally can be identified by the use of forward-looking words such as "may", "should", "will", "could", "intend", "estimate", "plan", "anticipate", "expect", "believe" or "continue", or the negative thereof or similar variations. Forward-looking statements in this news release include statements that Bene's background allows him to build the detailed hardware environment needed for Carl Data's data scientists to continue developing breakthrough machine learning abilities into their software, that the custom closed control system will be a great example of how data for monitoring infrastructure can be used, that the EU Grant research will explore ways in which machine learning can precisely monitor and analyse the vibration of pipelines for analysis and predict maintenance of infrastructure which can save millions and prevent possible disaster during extreme weather events, that sensor anomaly detection is another key area of machine learning that will benefit from continued development in a controlled test

environment, and that with the high-precision testing tool of machine learning, the Company will be able to train some of the most powerful machine learning applications for waste water ever developed.

Although the Company believes that the expectations reflected in the forward-looking statements are reasonable, there can be no assurance that such expectations will prove to be correct. Such forward-looking statements are subject to risks and uncertainties that may cause actual results, performance or developments to differ materially from those contained in the statements including, without limitation, risks with respect to: that Carl Data's data scientists may not be able to continue developing breakthrough machine learning abilities into their software, that machine learning may not achieve the expected results and its accomplishments may be limited, the ability of the Company to establish a market for its services; competitive conditions in the industry; general economic conditions in Canada and globally; the inability to secure additional financing; competition for, among other things, capital and skilled personnel; potential delays or changes in plans with respect to deployment of services or capital expenditures; possibility that government policies or laws may change; technological change; risks related to the Company's competition; the Company's not adequately protecting its intellectual property; interruption or failure of information technology systems; and regulatory risks relating to the Company's business, financings and strategic acquisitions. Any forward-looking statements contained in this press release are made as of the date of this press release. The Company disclaims any intent or obligation to update publicly any forward-looking information, whether as a result of new information, future events or results or otherwise, other than as required by applicable securities laws.