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## CARL DATA LAUNCHES ASTRA AIRSAFE SENSOR WITH MULTIPLE PILOTS

**December 20, 2018 - Vancouver, British Columbia** - Carl Data Solutions Inc. (CSE:CRL, FSE:7C5, OTC:CDTAF) (“**Carl Data**” or the “**Company**”), is pleased to announce that Astra Smart Systems Inc. (“**Astra**”) is launching its new AirSafe environmental sensor, with concurrent pilots in multiple industries. According to a recent study by Market Future Research, the environmental monitoring market is predicted to reach [USD \\$19.56B by 2022](#).

Astra AirSafe is a light weight, ultra low-cost device that measures temperature, humidity and many possibly dangerous substances, including methane, hydrogen and smoke, for advanced safety protection. Remote resort locations, mining, and forestry companies are piloting this possibly life-saving tool, with ATCO Wood Products Inc. and the Castlegar & District Chamber of Commerce kicking off the installations.

“Astra has cultivated great industry partners throughout the Lower Columbia Kootenay region,” said Pilar Portela, Astra CEO. “It is an honor to be able to work closely within our community to improve safety, while at the same time building a versatile product that will have an international impact.”

The broad detecting scope, high sensitivity and a fast response time of AirSafe, combined with Carl Data’s technology agnostic platform’s built in alerting and alarming tools will allow for better real-time safety for assets and workers. This machine learning/ AI enabled device will also be able to use data to give accurate future predictions about an environment, helping industries to be proactive with operations and risk management.

“These pilots are just beginning of what Astra and Carl Data are going to accomplish within the huge burgeoning environmental monitoring market,” said Greg Johnston, Carl Data President and CEO. “Our clients will be amazed at the variety of products and applications we will be bringing to market in the new year.”

### **About Astra Smart Systems Inc.**

Astra is located at the i4C Innovation building, an Industrial IoT lab, production and development facility located in Trail, B.C., Canada. Astra's mandate is to develop E2E solutions for complex industrial challenges.

Astra's facility is at the centre of the Kootenay regions industrial fibre optic hub and sits along the newly established Metal Tech Alley. This corridor of high-technology ventures focused on industrial innovation, right across from the regional Trail Airport (YZZ) and with railway access to the US border at only seven kms away. Astra offers custom-designed infrastructure, equipment, and professional services for IIoT applications. More information can be found at <http://astra.earth>.

### **About Carl Data Solutions Inc.**

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

Carl Data continues to develop applications to work with new cloud-based mass storage services and analytics tools (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](http://www.CarlSolutions.com).

### **On behalf of the Board of Directors:**

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President, Chief Executive Officer, Director  
Carl Data Solutions Inc.

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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.

### **Forward-Looking Statements**

This press release contains certain forward-looking statements within the meaning of applicable securities law. Forward-looking statements are frequently characterized by words such as "plan", "expect", "project", "intend", "believe", "anticipate", "estimate" and other similar words, or statements

that certain events or conditions “may” or “will” occur. In particular, forward-looking statements in this press release include, but are not limited to, the statements that Astra’s product will have an international impact; that the broad detecting scope, high sensitivity and a fast response time of AirSafe, combined with Carl Data’s technology agnostic platform’s built in alerting and alarming tools will allow for better real-time safety for assets and workers; that the machine learning/AI enabled device will also be able to use data to give accurate future predictions about an environment, helping industries to be proactive with operations and risk management; that the pilots are just beginning of what Astra and Carl Data are going to accomplish within the huge burgeoning environmental monitoring market and their clients will be amazed at the variety of products and applications they will be bringing to market in the new year.

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 the Company may lose the confidence of municipal partners in its services; 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.