Media release

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Glasgow internet of things network gets coverage boost

CENSIS's Technology Summit brings together more than 400 from academia and industry

Glasgow's Internet of Things (IoT) network, the most advanced of its kind in the UK, has enhanced the quality and range of its coverage with the addition of a ninth gateway at the City of Glasgow College's new Riverside Campus on the south bank of the Clyde.

The consortium behind the city's LoRa™ network – Stream Technologies; Semtech Inc.; Boston Networks; and CENSIS, the Scottish innovation Centre for Sensor and Imaging Systems – will also begin working with the college's staff and students to help them use the new technology.

To be announced today (November 2, 2017) at CENSIS's fourth annual Technology Summit, the extra gateway adds to the eight already placed around the central, west end, and northern areas of the city. It will extend coverage to Glasgow's south east and improve the consistency of connectivity for devices in the city centre, particularly those inside and under buildings.

Each gateway can connect as many as 10,000 devices within a radius of at least three miles in urban areas. The Glasgow network has already been used to monitor river levels, the capacity of public bins, and pollution levels in the city centre, with a host of other trials underway.

Dr Mark Begbie, Business Development Director at CENSIS, said: "The City of Glasgow College's Riverside Campus is the ideal location for the latest addition to the Glasgow LoRa™ network – enhancing the city's existing coverage and extending it to the south east. It will also act as an important engagement point for us with the college's staff and students, giving them the best possible opportunity to use the IoT. We look forward to working with them on new applications and projects for this exciting technology in the near future."

Douglas Morrison, STEM and Innovation Project Lead at City of Glasgow College, added: "We are delighted to partner on this exciting project. Glasgow is very much a Smart City and the continued growth of IoT means we are always on the look out for innovative education solutions across our super college.

“Not only is City of Glasgow College an established technical and professional Centre of Excellence, our Riverside campus is the most technologically advanced maritime and engineering campus anywhere, so this is a great fit. Each day we work to ensure that our students are equipped with relevant and modern skills to flourish in the workplace. We look forward to further developing this relationship with CENSIS."

The news will be shared today at CENSIS’s fourth annual Technology Summit in Glasgow, which expects to attract more than 400 delegates from across industry and academia. The conference covers a range of topics, including the development of Smart Cities, cyber security, and the opportunities presented by IoT technologies and Industry 4.0.

The audience will hear from a range of speakers, including Edinburgh Napier University’s Professor Bill Buchanan OBE; the University of Glasgow’s Professor Muffy Calder OBE; Alan Norbury, Industrial Chief Technology Officer at Siemens UK; and Frank Frederiksen, Head of Corporate Strategy at U-blox.

Dr Mark Begbie added: “There is no better place to announce this latest development on Glasgow’s LoRa™ network than at our annual Technology Summit. Now in its fourth year, the conference has made massive strides, growing from 100 delegates in 2014 to more than 400. It’s testament to the depth and diversity of Scotland’s technology scene that we’re able to consistently attract so many industry leaders from across the UK and beyond.”

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Notes to editors:

1. **About CENSIS**
   CENSIS is the Scottish Centre for Sensor and Imaging Systems, which aims to bring together commercial innovation and academic research, to drive economic activity in Scotland. Established in April 2013 with an initial £10 million funding, it will deliver collaborative R&D projects and assist Scotland’s 170 companies in the industry which, between them, contribute £3.6 billion to the economy. It is funded by the Scottish Funding Council, with additional support from the Scottish Government, Scottish Enterprise and Highlands & Islands Enterprise.
   http://censis.org.uk/
   https://twitter.com/CENSIS121

2. **About Innovation Centres**
   The eight Scottish Innovation Centres, which were launched in 2014 and in the latter part of 2013, sit within the aquaculture, construction industry, oil and gas, stratified medicine, digital health, industrial bio-tech, and sensors and imaging. Each centre aims to establish bonds between Scotland’s universities and their respective industry sectors, translating the knowledge and expertise into commercially viable products and companies, to benefit the country’s economy.
   http://www.innovationcentres.scot/
   https://twitter.com/ic_scotland

3. **About LoRa networks**
   LoRaWAN is a Low Power Wide Area Network (LPWAN) specification intended for wireless battery-operated Things in regional, national or global network. LoRaWAN target key requirements of internet of things such as secure bi-directional

communication, mobility and localization services. This standard will provide seamless interoperability among smart Things without the need of complex local installations and gives back the freedom to the user, developer, businesses enabling the roll out of Internet of Things. For more information, please see:
https://www.lora-alliance.org/What-Is-LoRa/Technology

4. **About the Internet of Things in Scotland**
In its Digital Strategy for Scotland, published in March 2017, the Scottish Government outlined its intention to develop a national LoRaWAN™ that supports machine-to-machine networking. The Government aims to put Scotland at the cutting edge of the Internet of Things, while supporting the country's businesses to innovate and take full advantage of the economic opportunities this technology offers. LoRaWan™ has already been established in Glasgow, Renfrewshire, Dundee, Aberdeen, Inverness, and Orkney by CENSIS, Stream Technologies, and a variety of local partners. See page 22:
https://beta.gov.scot/publications/realising-scotlands-full-potential-digital-world-digital-strategy-scotland/documents/00515583.pdf?inline=true
http://censis.org.uk/censis_projects/glasgow-pioneers-iot-connectivity-with-new-lora-network/