



REAMIT Networking Symposium - 09 Jan 2020, hosted by Nottingham Trent University

REAMIT project saw the launch of its first Networking Symposium on the 09 January 2020, hosted by Nottingham Trent University at the Crowne Plaza in Nottingham, UK.

Prof Usha Ramanathan, Communication Lead of REAMIT project from Nottingham Trent University welcomed 50 participants within Agri-food and Big data technology sectors and also senior university academics to the Symposium.

Prof Ram Ramanathan, Project Lead of REAMIT from the University of Bedfordshire kicked off with an introduction to REAMIT and the Symposium followed by a warm welcome from Gerry Bradley, the UK Contact Point for the Interreg North-West Europe programme, of which REAMIT is a part of. Notable speakers included Prof. Alistair Bruce (in the photo above left) who gave a warm introduction to Nottingham Business School and credited REAMIT for our collaborative and multi-disciplinary work. Prof. Chungui Lu, also from Nottingham Trent University who gave an insightful presentation on "Sustainable Agriculture through Innovative Vertical Farming".

We were privileged to interesting presentations from organisations such as ADAS UK (Harriet Illman), the Food Heroes project (Dr. Chris Bishop) and the QCAP project (Dr. Frans Harren). We would like to also thank all REAMIT project partners from across North-West Europe, who attended and contributed in presenting and exhibiting at the Symposium.

Thanks to all speakers at the Symposium:

Gerry Bradley, UK Contact Point, NWE Interreg Programme
Régis Del FRATE, Valorial, France
William Duffy, Ulster University, UK
Davinder Bola, Levstone, UK
Ali ASSAF, University of Nantes, France
Harriet Illman, ADAS, UK
Simon Chudoba, IQRF Alliance, UK
Prof. Alistair Bruce, Nottingham Trent University, UK
Dr. Frans Harren – QCAP/ Radboud University, The Netherlands
Dr. Chris Bishop- FOOD HEROES project, University of Lincoln, UK
Prof. Chungui Lu - Nottingham Trent University, UK
Prof. Nick Holden, University College Dublin, Ireland
Hervé RANNOU, SenX, France

Thanks to our Exhibitors:

Matt Cook - Solid State Supplies Ltd, UK
Bill Proudfoot – Gas Sensing Solutions Ltd, UK
Hervé RANNOU, SenX, France
Simon Chudoba, IQRF Alliance, UK
Davinder Bola, Levstone, UK
Régis Del FRATE, Valorial, France



Event Feedback - How we did?

The Symposium brought together two disparate groups of researchers belonging to food waste and technology, who hitherto had minimal interactions and thus helped know each other better. This was evident from the feedback as one of the participant suggested "A two-day event would be useful".

Overall, REAMIT themes really attracted the audiences of the Symposium and made them curious about the future of the project - "Wish we could hear from some end users about their benefits and challenges. I enjoyed it, very useful to compare & contrast with developing and developed supply chain issues".

Venue, food and drink were appreciated by the attendees. The Communication and organisation of the Symposium was much appreciated. Thanks to our communication partner, **Nottingham Trent University** for their great effort in arranging this Symposium.

Thanks for all your support during and after the REAMIT Networking Symposium. The symposium presentations slides are available on our website- www.reamit.eu under 'Events' tab - REAMIT Networking Symposium 2020.

We look forward to welcoming you all at the next REAMIT Networking Symposium in Rennes, France on 05 November 2020.



Photos of some of our exhibitors at the REAMIT Networking Symposium

REAMIT Steering Committee Meeting- 15- 16 January 2020 - Rennes, France

REAMIT partners & subpartners gathered on 15 - 16 January 2020 in Rennes, France, hosted by Images & Réseaux – to discuss project progress and more technology demonstrations.

In Attendance:

University of Bedfordshire, Nottingham Trent University, Images & Réseaux, SenX, Levstone, Valorial, University of Nantes, Whysor, Ulster University, University College Dublin and IT Tralee (via video link)



REAMIT project partner, Whysor is working with a Dutch online supermarket on pilot test

The Dutch pilot is currently in the stage of defining the operational processes. The pilot-partner is an online supermarket who delivers groceries at home with small electric vehicles. It is a data-driven company.

Their supply chain starts at the fulfillment center, where in the morning crates or boxes are filled according to the customers order. Fresh products are kept cool in separate boxes. With small e-trucks these boxes with groceries are delivered at your home.

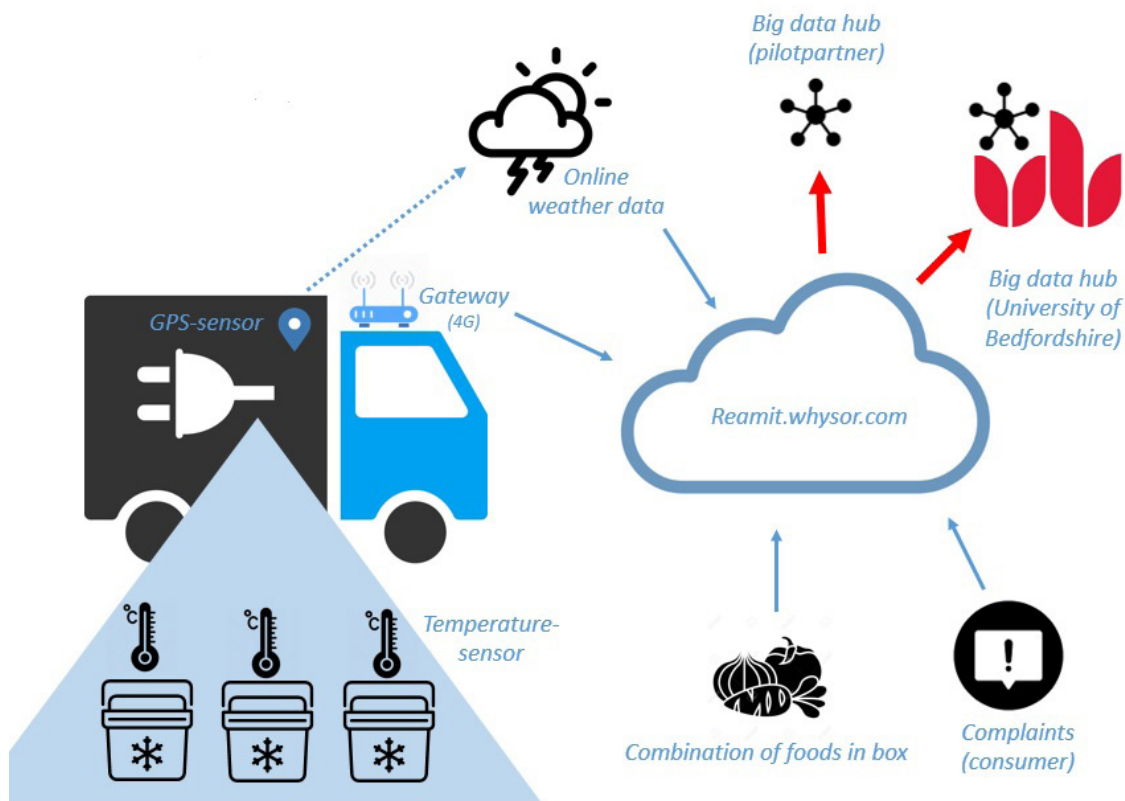


Team at Whysor, Netherlands

Marcel Steegh, owner of project partner Whysor B.V. about the data that are collected: *"The pilot-partner already collects data at different stages of their process, but not yet during delivery to the customer. They wish to monitor the temperature of the groceries inside each box. Therefore, every coolbox inside the e-truck needs to be equipped with a temperature-sensor and the e-truck itself with a GPS-sensor"*.

The data measured by the sensors are sent to the REAMIT-cloud via a gateway. In the REAMIT-cloud all data come together: data from the sensors inside the crates, online weather data, complaints that the company has received from customers and the combination of foods that were transported in the box. These collection of various data in real time makes this truly Big Data.

In near future, the collected data can be retrieved from the cloud to the Big data hub of the University of Bedfordshire and the Big data hub of the online supermarket.



A schematic diagram of data collection and analytics of the Dutch Pilot Test

REAMIT project partner Whysor is working in collaboration with a German fruit and vegetable supplier

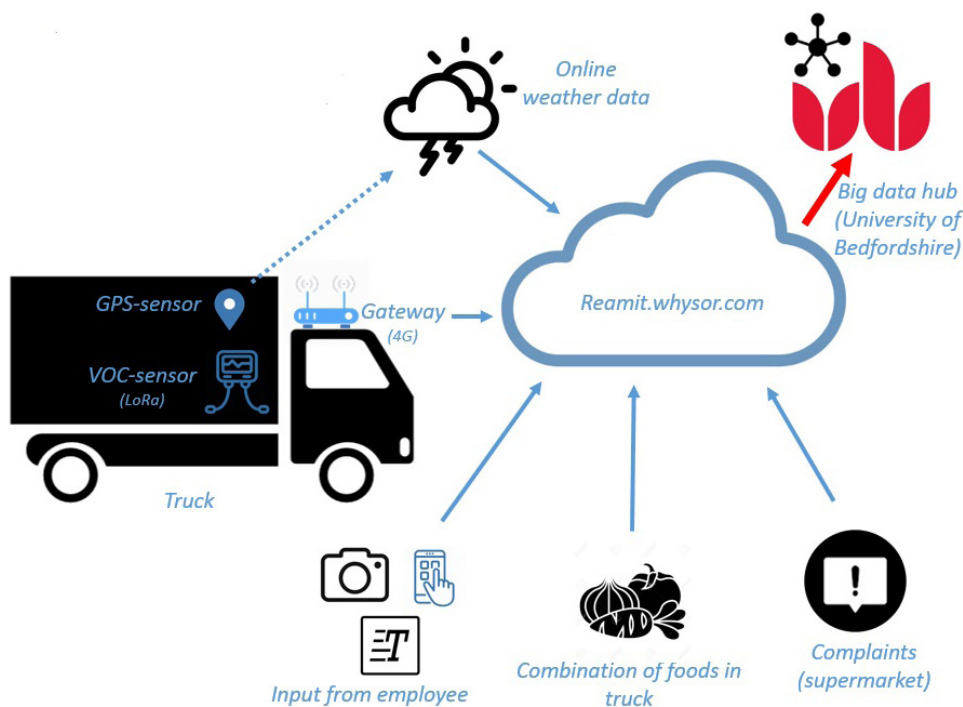
The German pilot for REAMIT is a grower, producer and supplier of fresh vegetables, fruit and herbs with subsidiaries in the Netherlands and Germany. Their products are primarily sold in Germany, the Netherlands and Eastern Europe. Marcel Steegh, owner of Project partner Whysor B.V. approached the pilot partner in the fall of 2019.

The participation of the German pilot-partner in REAMIT is explained by one of their employees: *"Embracing the principle 'from farm to fork' we commit ourselves to close, long-term business relationships with our suppliers for a direct, short, traceable and transparent supply chain. It's our wish to be able to continuously monitor the quality of our goods: at the farmers, inside the truck, in the warehouse and at delivery in the supermarket".*

Marcel explains the sensor-technology that is used in this pilot: *"We equipped the truck with a volatile organic compound (VOC) sensor and a GPS-sensor. Next to VOC this sensor measures carbon dioxide, humidity, temperature, atmospheric pressure and illuminance".*

Similar to the Dutch pilot, the German pilot will also have a gateway to send the data measured by the sensors to the REAMIT-cloud and a Big Data system combining with other real-time data sources will be developed.

Marcel continues: *"The next step is to equip the warehouses in the pilot partner's supply chain with VOC-sensors and employees with a handheld Near-InfraRed (NIR) food quality scanner, so we can monitor the complete chain: from farm to supermarket".*



A schematic diagram of data collection and analytics of the German Pilot Test

Upcoming Events

Research Seminar at Cass Business School, London, UK on 05 February 2020

Prof Ram Ramanathan delivered an invited talk on "Some research opportunities arising from the REAMIT project."

Visit to Getúlio Vargas Foundation (Fundação Getúlio Vargas), Rio de Janeiro, Brazil on 20 February 2020

Prof. Ram Ramanathan and Yanqing Duan will deliver a talk on REAMIT at the Getúlio Vargas Foundation in Brazil.

Visit to Unidavi, Rio do Sul, Brazil on 20 February 2020

Prof Usha Ramanathan will share some results of REAMIT in her invited talk in Unidavi, Rio do Sul, Brazil.

Chartered ABS's Annual Research Conference & Exhibition at Nottingham Business School, UK on 18 March 2020

REAMIT will be exhibiting at the Annual Research Conference & Exhibition of the prestigious Chartered Association of Business Schools. This is the yearly gathering of directors of research, directors of impact, research and impact leads, postgraduate research directors and heads of knowledge exchange from UK business schools. (<https://chartered-abs.org/events/research2020/>)

Smart Food Matters Conference, London, UK on 01 April 2020

Prof. Ram Ramanathan will be talking about the REAMIT project at the Smart Food Matters event. <https://www.food-matterslive.com/smartfood>