

DEMO AREA – Innovation Activities



Smart IOT Application Development (SIOTAD)

SIOTAD allows farmers to save time and spray more effectively, reducing the amount of herbicides needed. SIOTAD is a platform designed to provide micro-services through IoT, Big Data and 5G innovations.

Partners: Bilberry, Institut Mines–Telecom, Intopalo, Nokia Bell Labs, and Tampere University of Technology



Virtual Factory Floor & Shelf Mapping

Virtual Shelf Map detects changes in a physical shelf layout and generates detailed data on product displays and for guidance of robots picking up or filling in items on the shelves. The information can be used to save workforce costs, and optimise logistics, and sales.

Partners: CRF, DFKI, and VTT.



Ambiciti

Ambiciti is a single platform delivering real-time data on street-by-street exposure and risks on multiple environmental pollutants. The platform's technology leverages open data along with cloud, IoT, mobile and data analytics technologies.

Partners: Inria, Ambiciti, Numtech, and Forum Virium.



Bright Ageing

BrightAgeing is offering innovative solutions based on a connected lighting system in order to provide lighting conditions that match the specific needs of elderly people and enable them to live independently at home longer.

Partners: City of Helsinki Service Centre, Forum Virium, Tieto Finland, and Philips Lighting.

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Joint Smart Building Ecosystem Initiative



KONE together with Indoor Ninja have been working on the solution to improve and automate the check-in experience for office building visitors. A tablet in the lobby, a smartphone and a KONE elevator with IoT connectivity is all that it takes for a smooth visitor flow.

Partners: KONE, Indoor Ninja

Rapidly Deployable Networks



Rapidly Deployable Networks is developing a quickly applicable secure and robust wireless communication solution for emergency situations in which the regular public network is compromised or not sufficient.

Partners: Bittium, Green Communications, STMicroelectronics, and the Distributed Artificial Intelligence Laboratory of the Technical University of Berlin

Smart Retail



Smart Retail has developed Digital Retail Suite, which collects and analyzes omnichannel real-time customers' data. It enables shop owners to tailor powerful in-store experiences, in order to increase sales, conversion rates and retention rates. Smart Retail is showcasing two demos: Spaceify and 3D Selfie Wall (VTT)



Spaceify

Spaceify is a client-edge-server ecosystem that seamlessly integrates your physical space with the web. With Spaceify you can give web apps controlled access to resources such as big screens, sensors and lighting in your space.

3D Selfie Wall



VTT has developed 3D selfie wall, which seamlessly merges the person with content shown on the screen, for example a historic photo or an advert. The application can be used, for example, to make the content of an exhibition stand or outdoor advertisement interactive, interesting and highly approachable.

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European Trusted Cloud Ecosystem

The European Trusted Cloud Ecosystem provides consumers and businesses with better tools and services to take greater control over the use of sensitive personal and business data.

Partners:



My Data Store

My Data Store is an innovative platform and API-based process for delivering compliant and secure cloud personal applications, managing personal data in accordance with the upcoming European GDPR.

IMSECURITY 2.0

IMSECURITY 2.0 is a Security-as-a-Service monitoring solution designed to protect private and public cloud environments.

Security Cloud API for Web applications

F-Secure Security Cloud is a wide range set of functionalities to enable cloud applications protect themselves from malicious files and links. It has a reputation service for files and URL's and a novel way of detecting malicious behaviors by running the file in a 'sandbox' and analyzing the file actions.

Usage Control in BT Cloud

The demo shows a service for dynamic file access control, where users are allowed to open and use a file only under conditions that might change dynamically, such as device integrity.

Mobile Privacy Policy Setting

Web interface for setting up privacy policies on mobile devices. It has dynamic control on data stored that might be sent to cloud storage.

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ACTIVE ACTIVE - IOT Accelerator

ACTIVE, the advanced connectivity platform for vertical segments provides unified approach for developers and industry to support the widespread growth in IoT. ACTIVE includes several innovation activities.

Partners:



TAMPERE
UNIVERSITY OF
TECHNOLOGY



Machine Usage Analytics

Sensor data from machines on the field is analysed and visualized to understand how much the machines are actually used by personnel. This information is used to optimize the machine rental and repair process.

Wearable AR for Real-time Object Recognition

Real-time object recognition from first-person video captured by smart glasses. Hand gesture recognition using smart sensors. Edge computing for compute-intensive and latency-critical applications.

Wearables in Health Monitoring

From entry level activity monitoring for recovering patients to advanced vitals monitoring to ECK – Bittium's Safe Move Zone Health provides a unified method for health monitoring outside hospital environments.

Micro Grid Creator

This project is an implementation of the 3GPP-based connectivity technology, so called, Narrow Band - Internet of Things (NB-IoT) using Aalto Software-Defined Radio platform. This prototype shows how ABB Engine Controllers can be controlled using GSM re-farmed bands courtesy to Finnish operator, DNA.

Network Slicing for IOT Devices