InterDigital: Horizontal Platform for Multi-User Applications

Featured Resource: [Business Strategy & Innovation Framework](#) (BSIF)

RESULTS

- 2-year, pre-commercial field trial provided confidence to launch a commercial service
- Innovation recognized via IoT Solutions World Congress award

The Challenge

- Convince a group of local government agencies to collaborate in a pre-commercial trial to test innovative and economically-viable, smart city and intelligent transport solutions.
- Create a user-led, change-management framework to trigger industry adoption.

The Solution

InterDigital initiated a public-private partnership, combining platform users and experts from different domains, to deliver and operate a full in-field trial of a marketplace for city-owned data that supported several IIoT applications.

The initiative used the oneM2M™ standard to manage data streams from 300 sensor types, maximizing interoperability and vendor independence.

oneTRANSPORT Public-private Partnership (*www.oneTRANSPORT.io*)

IoT Platform Provider

INTERDIGITAL EUROPE

Transport Sector Expert

ARUP

Use Case Owners

Buckinghamshire County Council | Hertfordshire | Northamptonshire County Council
highways england | OXFORDSHIRE COUNTY COUNCIL

IoT & Intelligent Transport Analytics

Imperial College London | traak

Sensor-network Service Providers

WORLD SENSING | Clearview Intelligence

Key Insights

Content source: [IIC Journal of Innovation: Smart Cities Edition](#) (June 2017)

- As outlined in the IIC's BSIF, several end-users were able to share a single IIoT platform to manage a multitude of devices and sensors whose data supports the needs of limitless use-cases and applications (e.g. asset monitoring, car-park management, journey planning, pollution monitoring, road congestion management etc.).
- While end-users lack the technical expertise and risk appetite to build innovative IIoT applications, partner ecosystems based on the open, oneM2M™ standard permitted multi-disciplinary teams to tackle complex challenges and share implementation lessons with a wider end-user community and on a national scale.
- The architecture underlying the oneTRANSPORT™ initiative maps to the IIC's [IIRA](#). It accommodated the potential to federate multiple IIoT platforms in cooperating, multi-user situations.

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