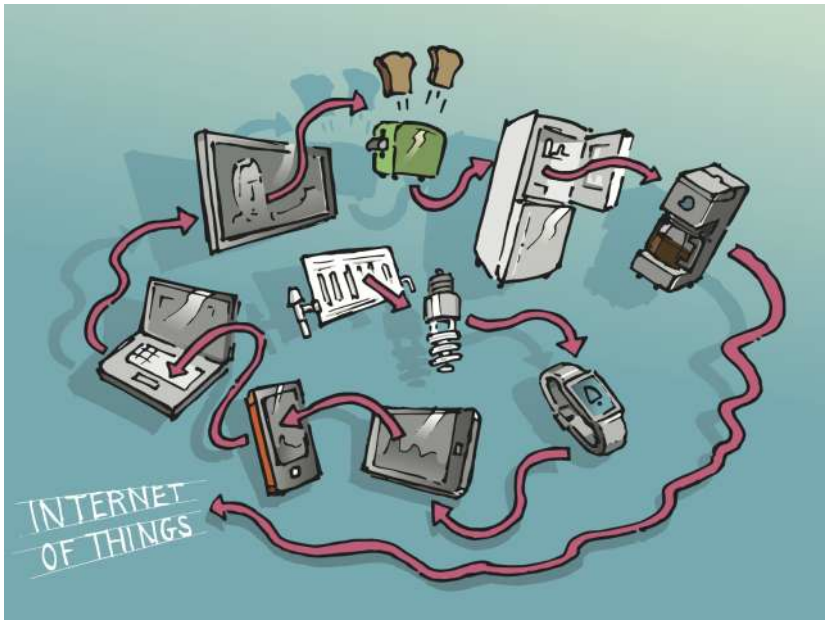
Nominet & The Internet of Things

February 2015



What is the Internet of Things?

IoT refers to the connection of everyday objects to the Internet and to one another, with the goal being to provide users with smarter, more efficient experiences.

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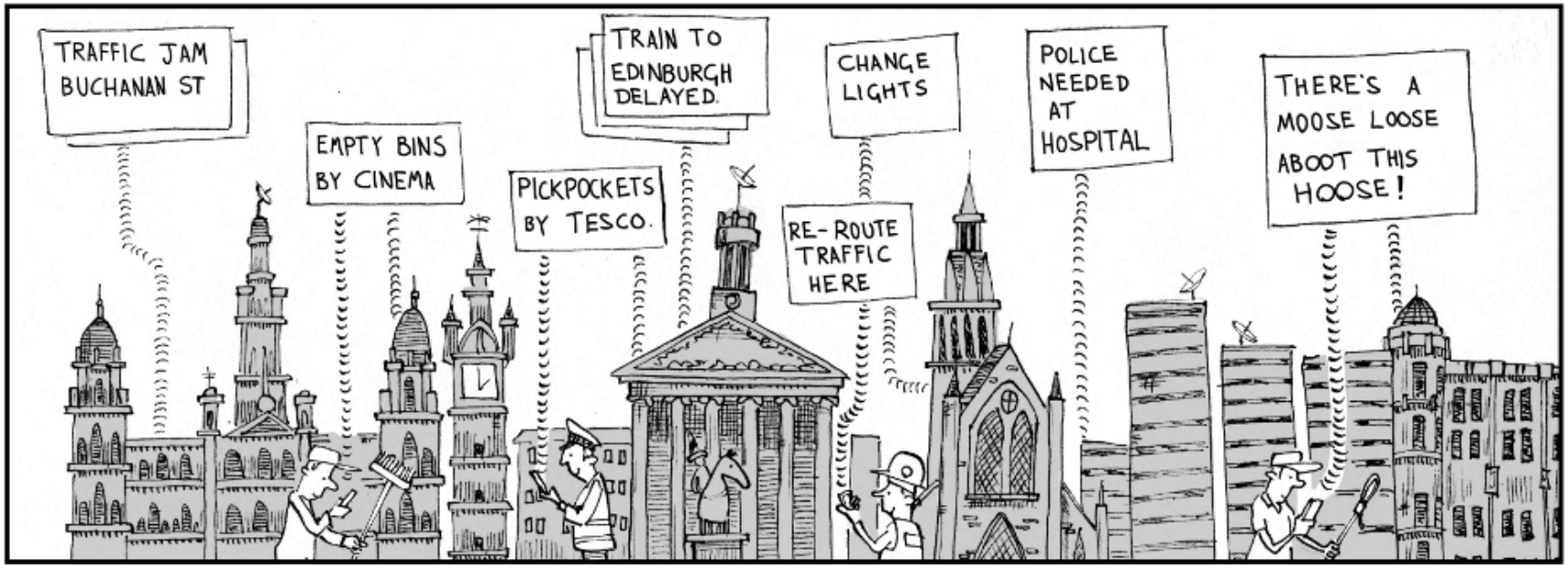
Don't forget
to buy milk!



IoT and The City

On a broader scale, it is being used by cities to monitor things like the number of available parking spaces, air and water quality, and traffic.

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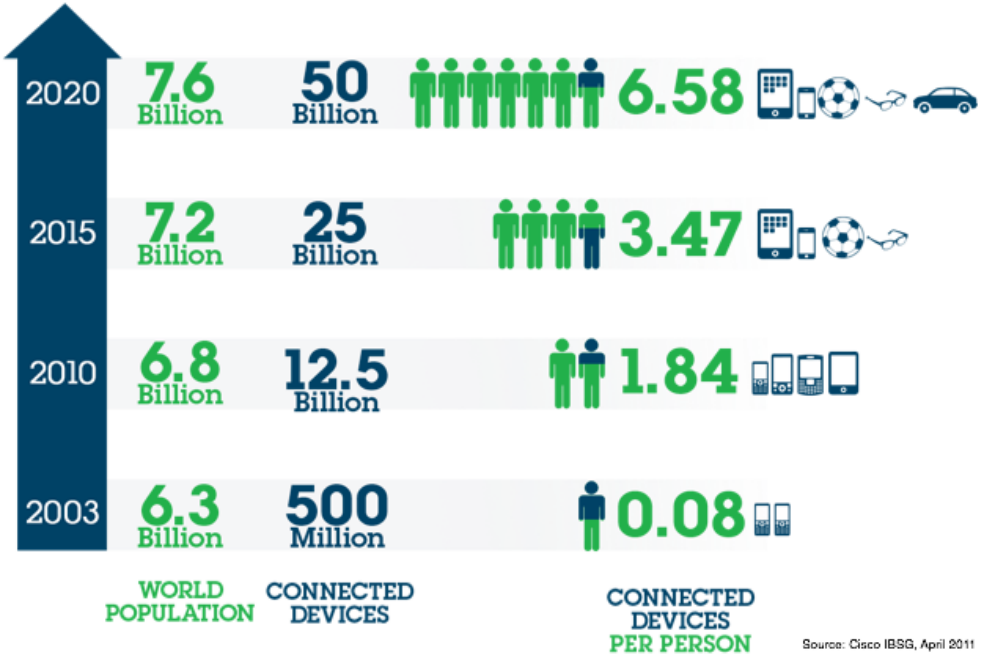

We are becoming more ‘connected’ every day…

By 2020 there will be 50 Billion devices connected to the Internet

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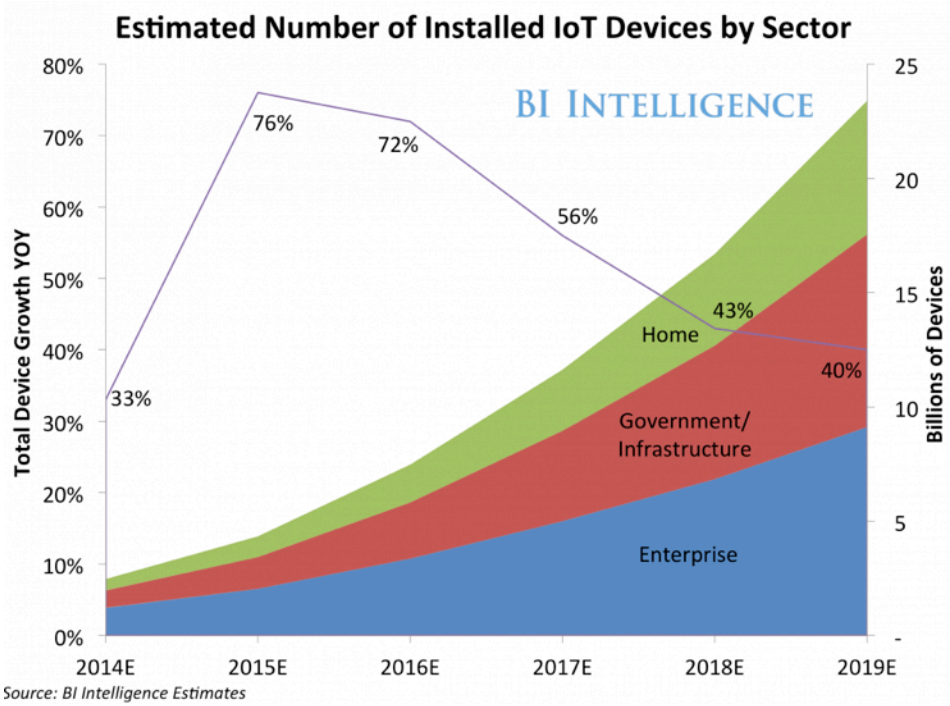

Which sector will see the most growth?

Although ‘wearables’ get a lot of attention, it’s actually large enterprise and infrastructure projects that will see the highest growth

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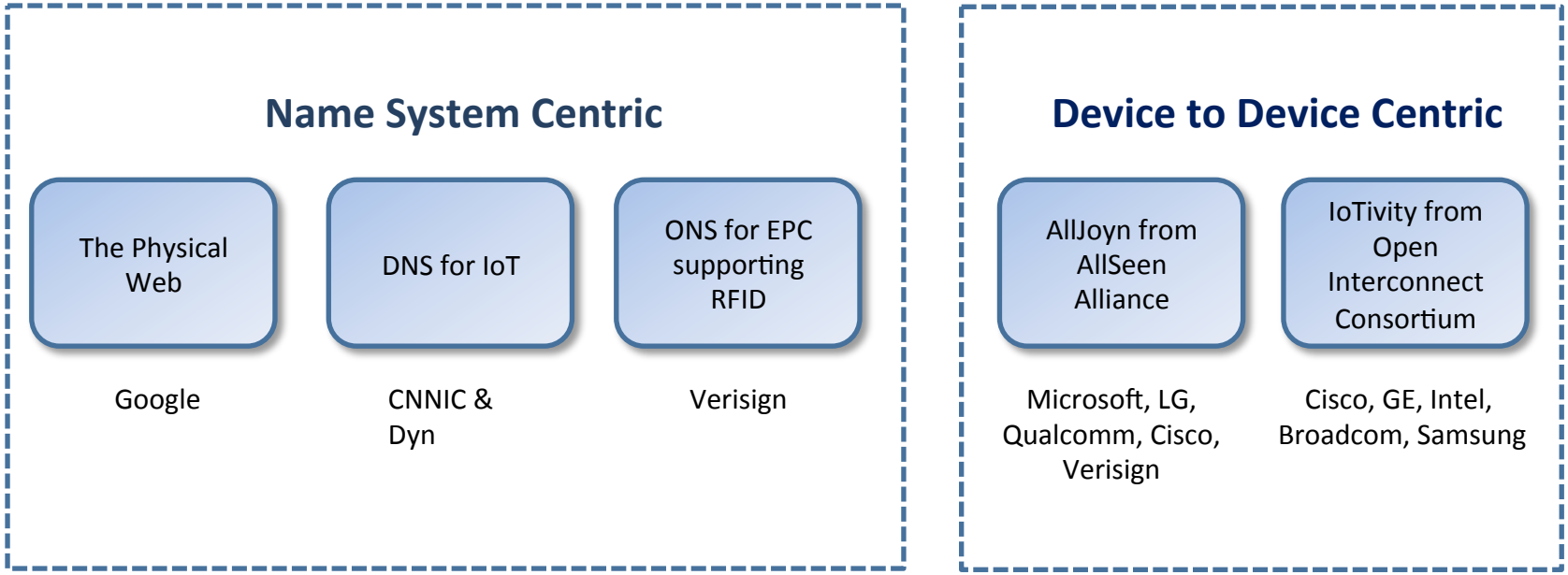

Addressing all these devices: competing interests

There are two distinct approaches to IoT addressing – and different players in each space

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Why should ccTLD registries care?

- We are part of our nation's critical infrastructure.
- We wish to remain a key part in the future of the internet

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So how should we respond?

Understand our role at the ‘center’ of addressing internet communications and where this might lead.

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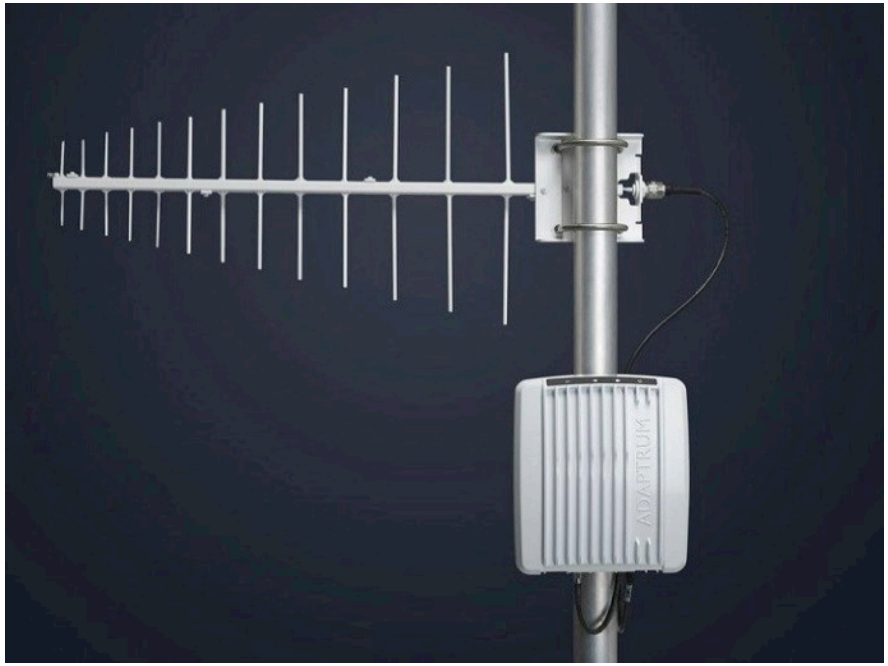

It’s all in the airwaves…

UK TV Whitespace trials – an ideal entry point to device-to-device communication

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Smart Cities

Increasing desire for cities to have connected and smart infrastructure and services

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Oxford: not the most ‘high-tech’ of cities, yet….

We have decided to work in our home town on a number of projects that will turn Oxford into a much ‘smarter’ city

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* Courtesy: BBC News

Oxford flooding

The river Thames (and its tributaries) flows right through the center of Oxford

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Oxford Flood Network

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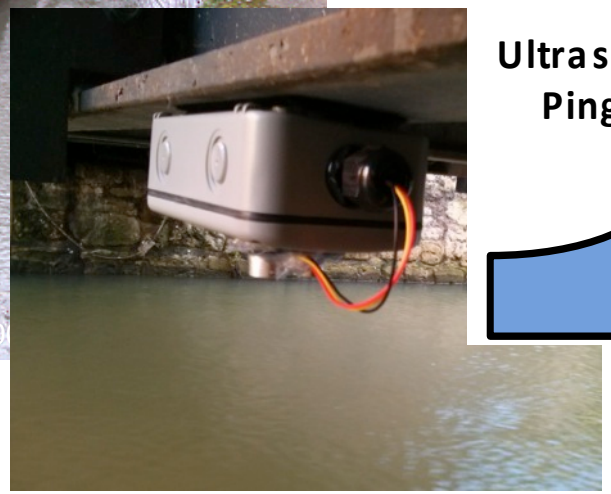
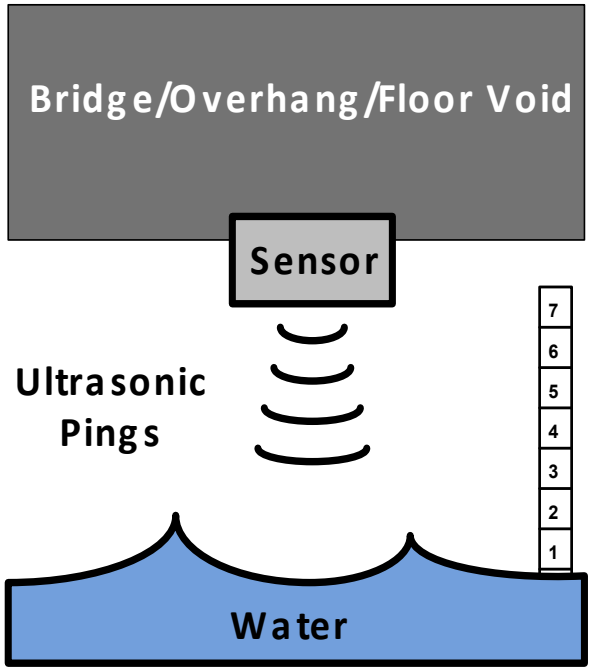
Community Sensor Network





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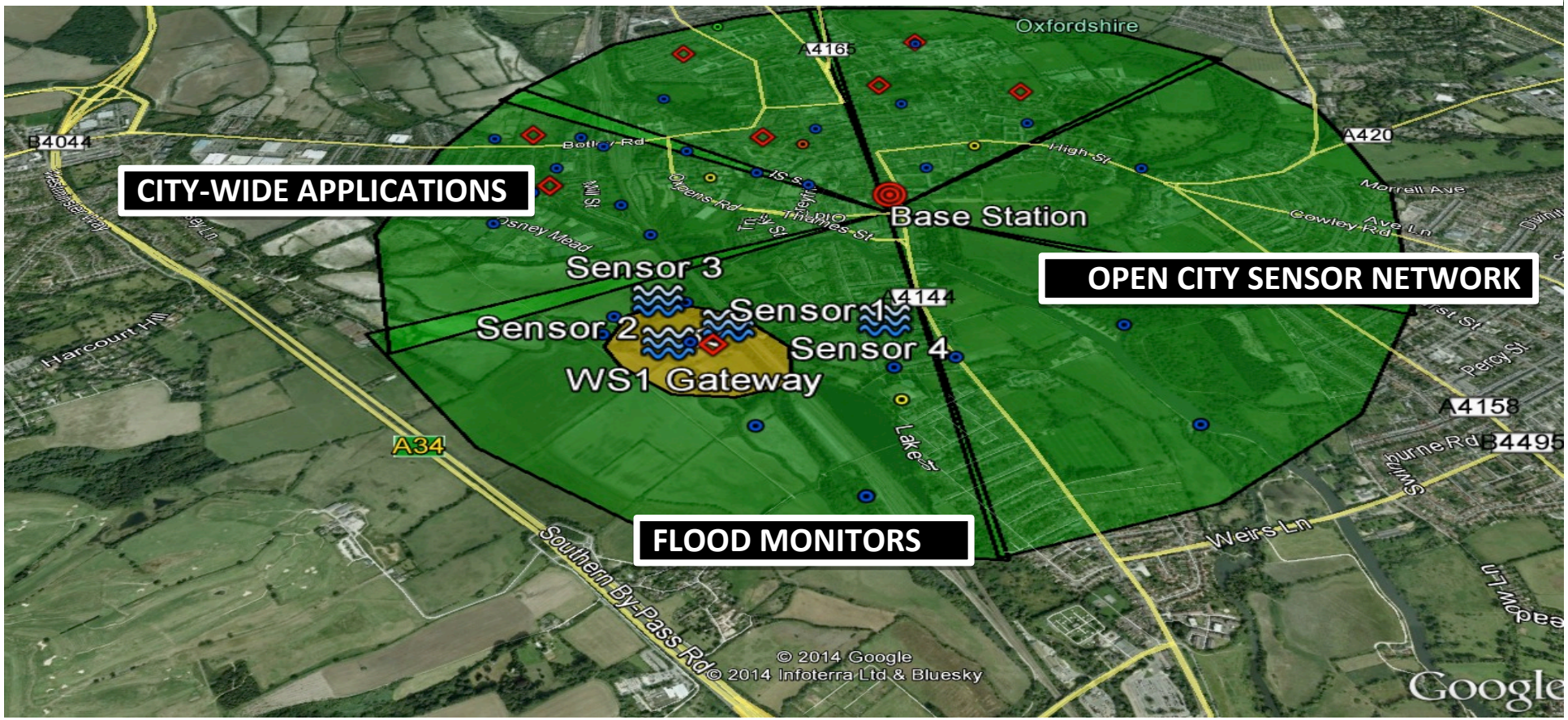
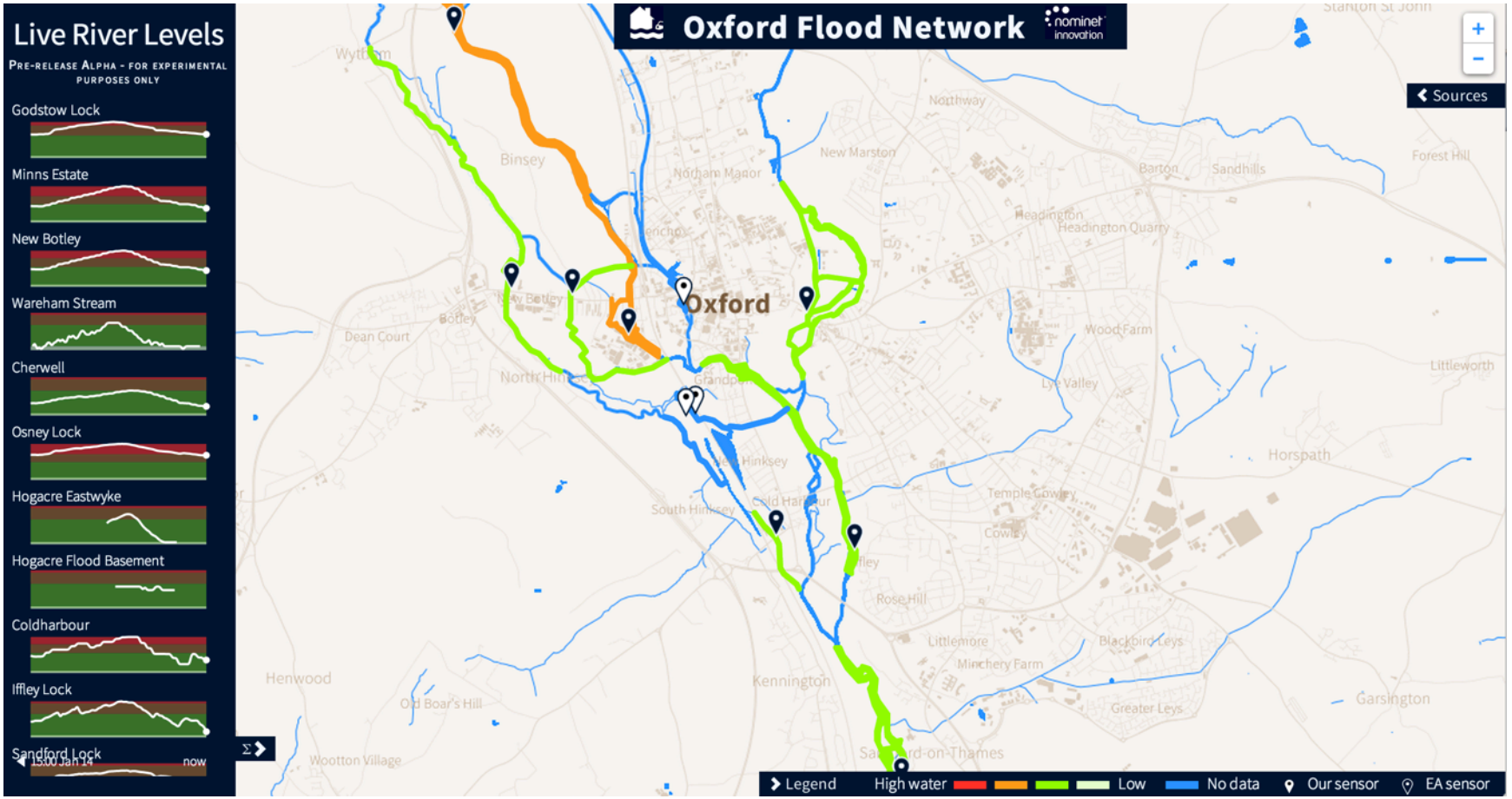
City-wide Internet of Things network




Live River Levels
Pre-release Alpha - for experimental purposes only
Godstow Lock
Minns Estate
New Botley
Wareham Stream
Cherwell
Osney Lock
Hogacre Eastwyke
Hogacre Flood Basement
Coldharbour
Iffley Lock
Sandford Lock
1500 Jan 14
now
Oxford Flood Network
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Sources
Oxford
Binsey
Northway
New Marston
Barton
Sandhills
Forest Hill
Headington
Headington Quarry
Botley
Dean Court
North Hinksey
Wood Farm
Littleworth
Lye Valley
Horspath
Temple Cowley
Cowley
South Hinksey
Rose Hill
Littlemore
Blackbird Leys
Minchery Farm
Henwood
Old Boar's Hill
Kennington
Greater Leys
Garsington
Wootton Village
Legend
High water
Low
No data
Our sensor
EA sensor

What next?

Working on traffic and air quality sensors throughout the city to bring together a ‘grid’ of data that we hope, can create beneficial social and commercial outcomes

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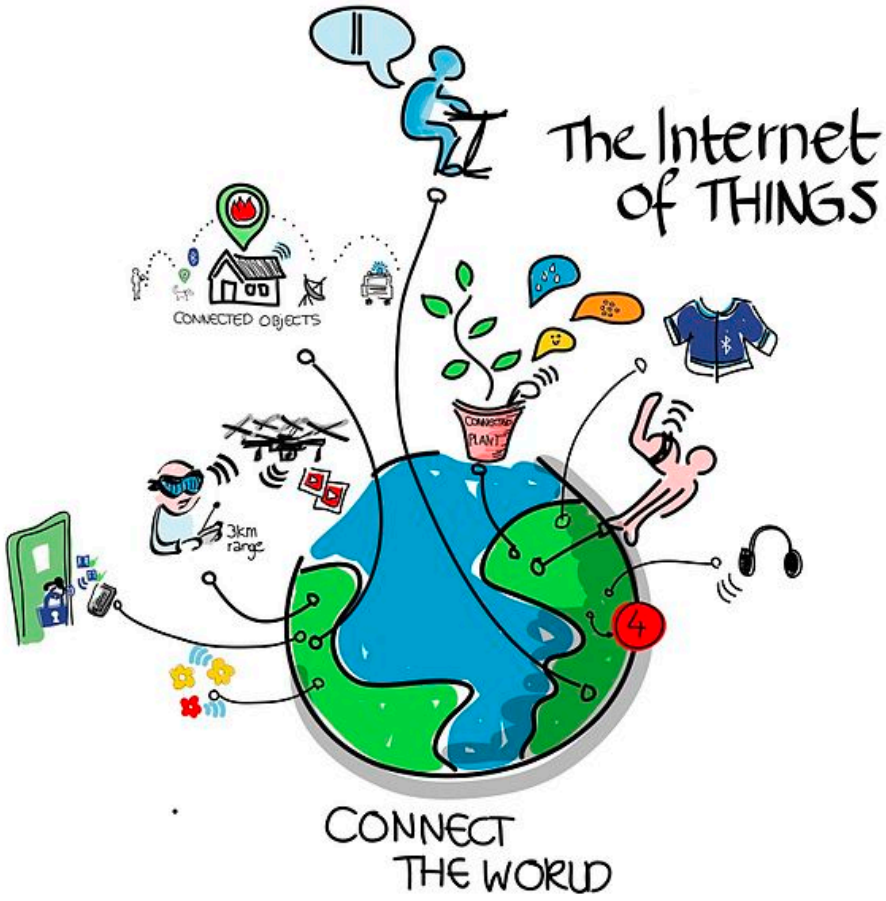
Outcomes?

- An understanding of the role for registries and registrars in the IoT future.
- What's the future for DNS?
- Social and commercial opportunities through IoT technology
- How to maintain a central role in Internet technology as our usage patterns change.



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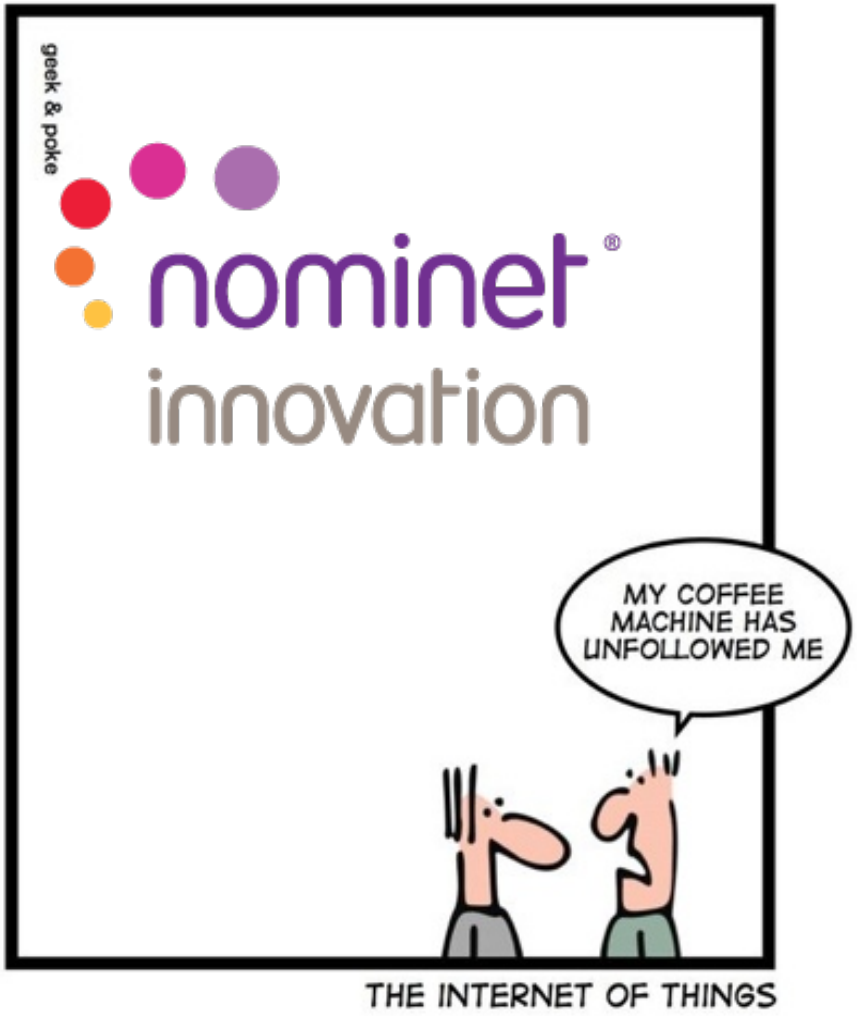
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MY COFFEE MACHINE HAS UNFOLLOWED ME
THE INTERNET OF THINGS