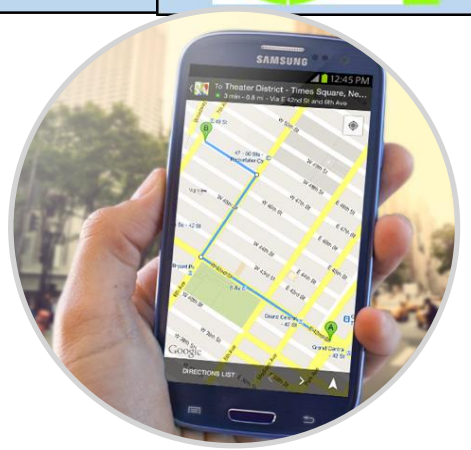
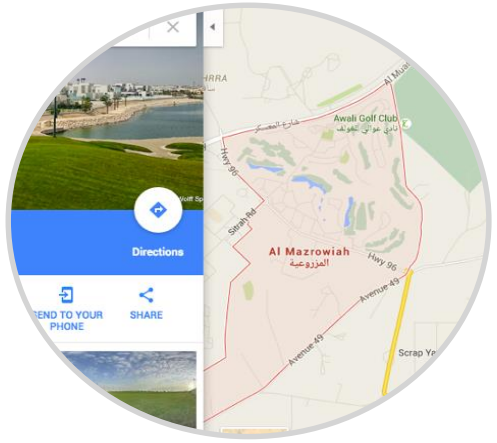
# Spatially Connected Government in Great Britain

Peter Hedlund

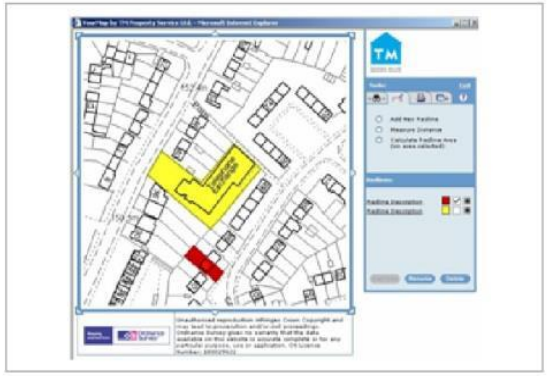
CEO Ordnance Survey International

# Mapping is everywhere





# Location - a vital component!



# Location – a meeting point for information?

Postcode?

Place name?

Coordinates?

# Same location but known very differently

Planning Dept-Flat 1, 21 Ash Grove London NW2 3LN

Police-Ground Floor Flat, 21 Ash Grove London

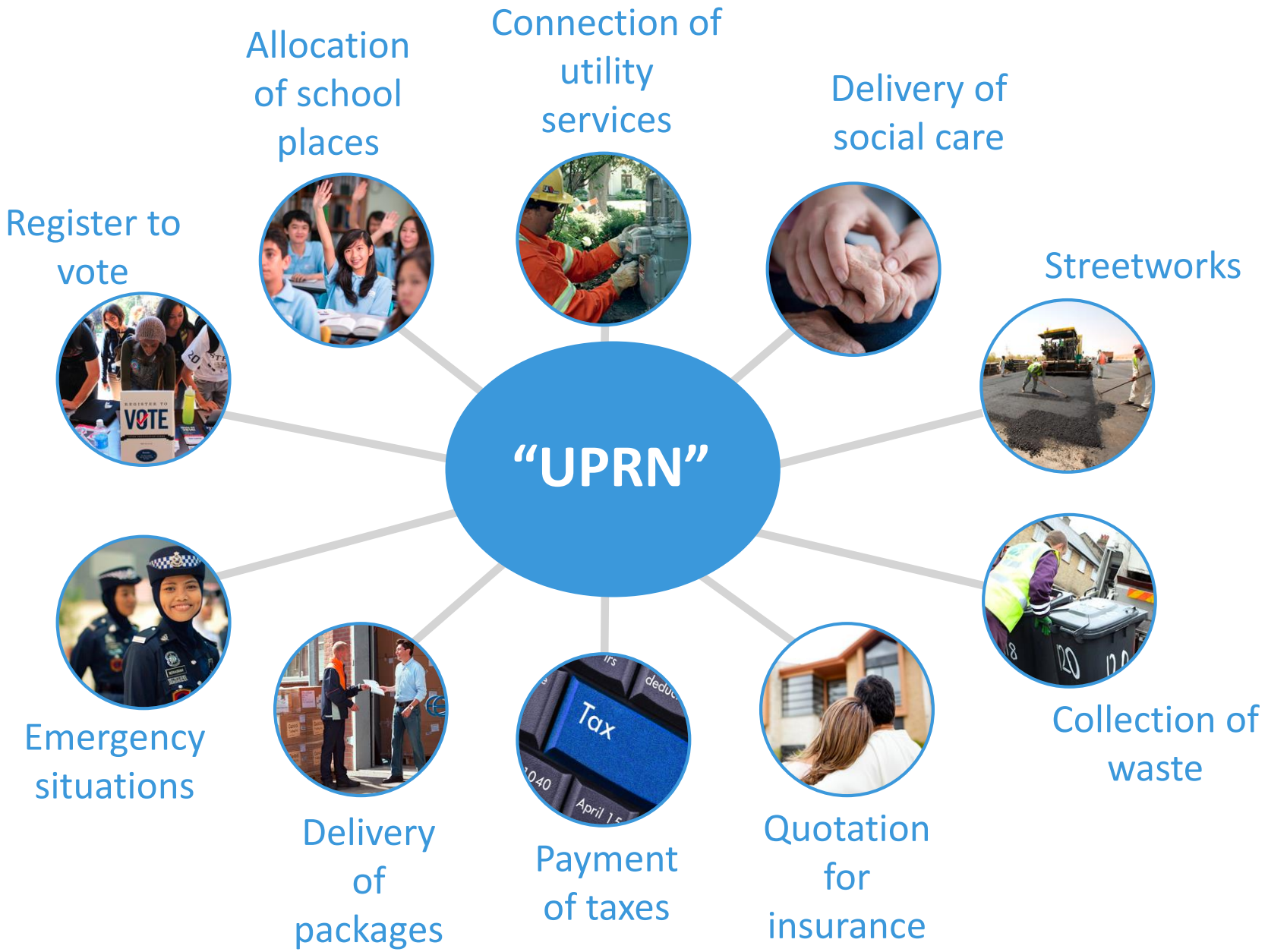
Utility-21A Ash Grove London NW2

Land tax-Flat 1, 21 Ash Gr. London NW2 3LM

Fire-21A Ash Grove, Cricklewood

Local Municipality-FL 1 21 Ash Grove

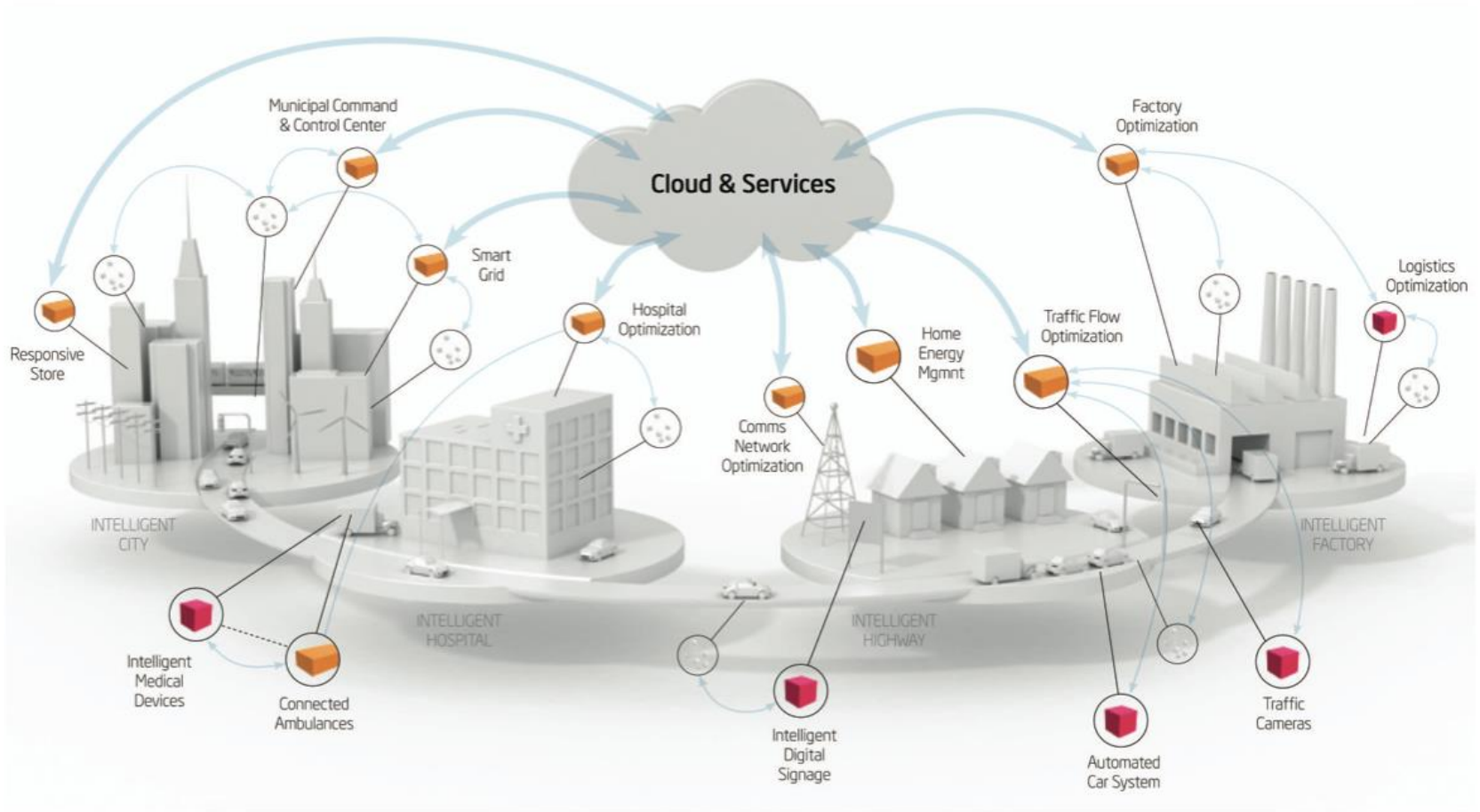
# “UPRN” - Unique spatial ID code for every real world object



# Unique Consistent Reference -Linking all government information

- Health records
- Flood plain
- Land ownership
- Utility supply/smart meters
- Topography
- Height of building? Floor levels?
- Crime, education, vulnerable persons

# Sensors Everywhere- (Things or Devices)

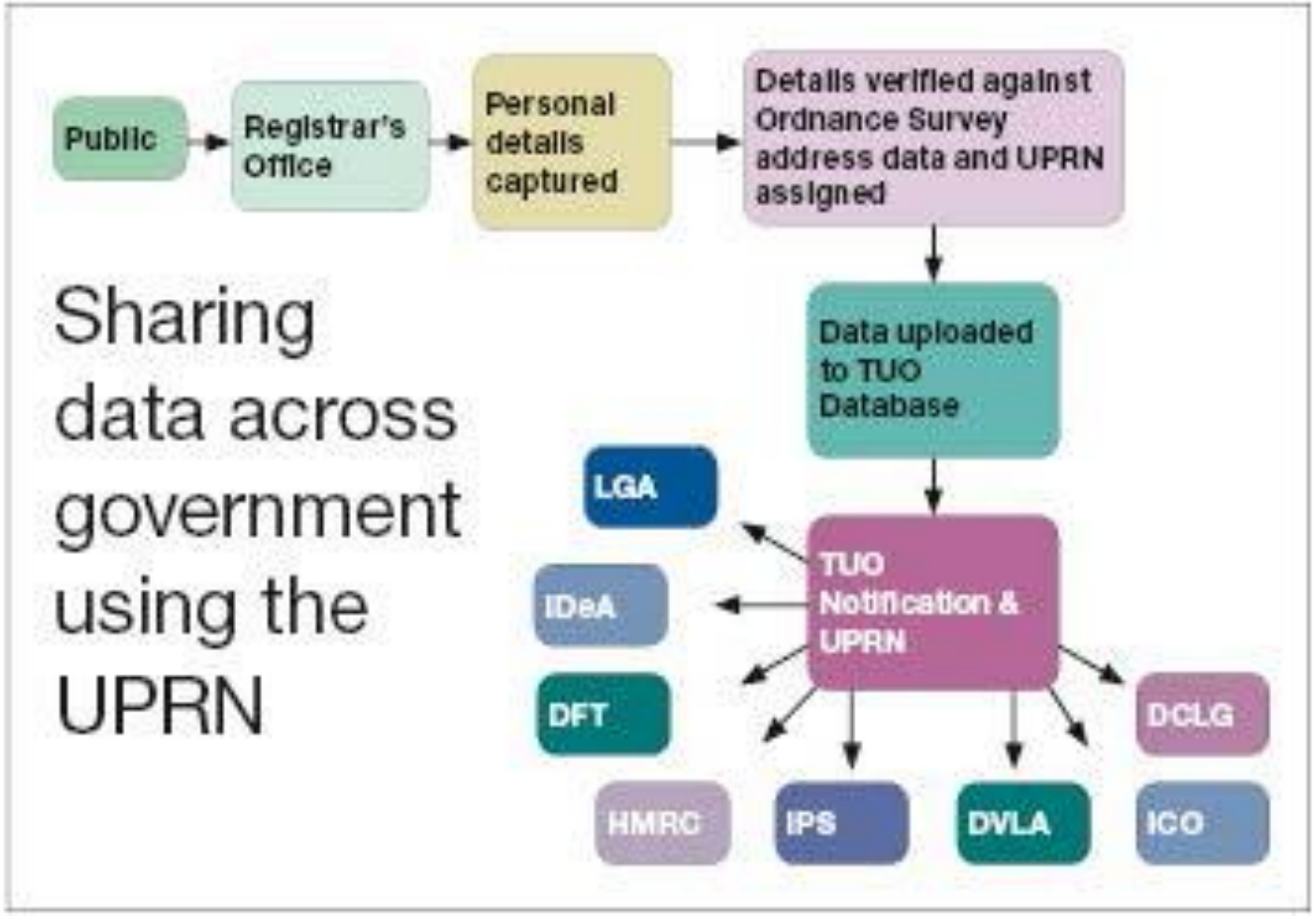



Slide source: Steve Liang, Univ. Calgary

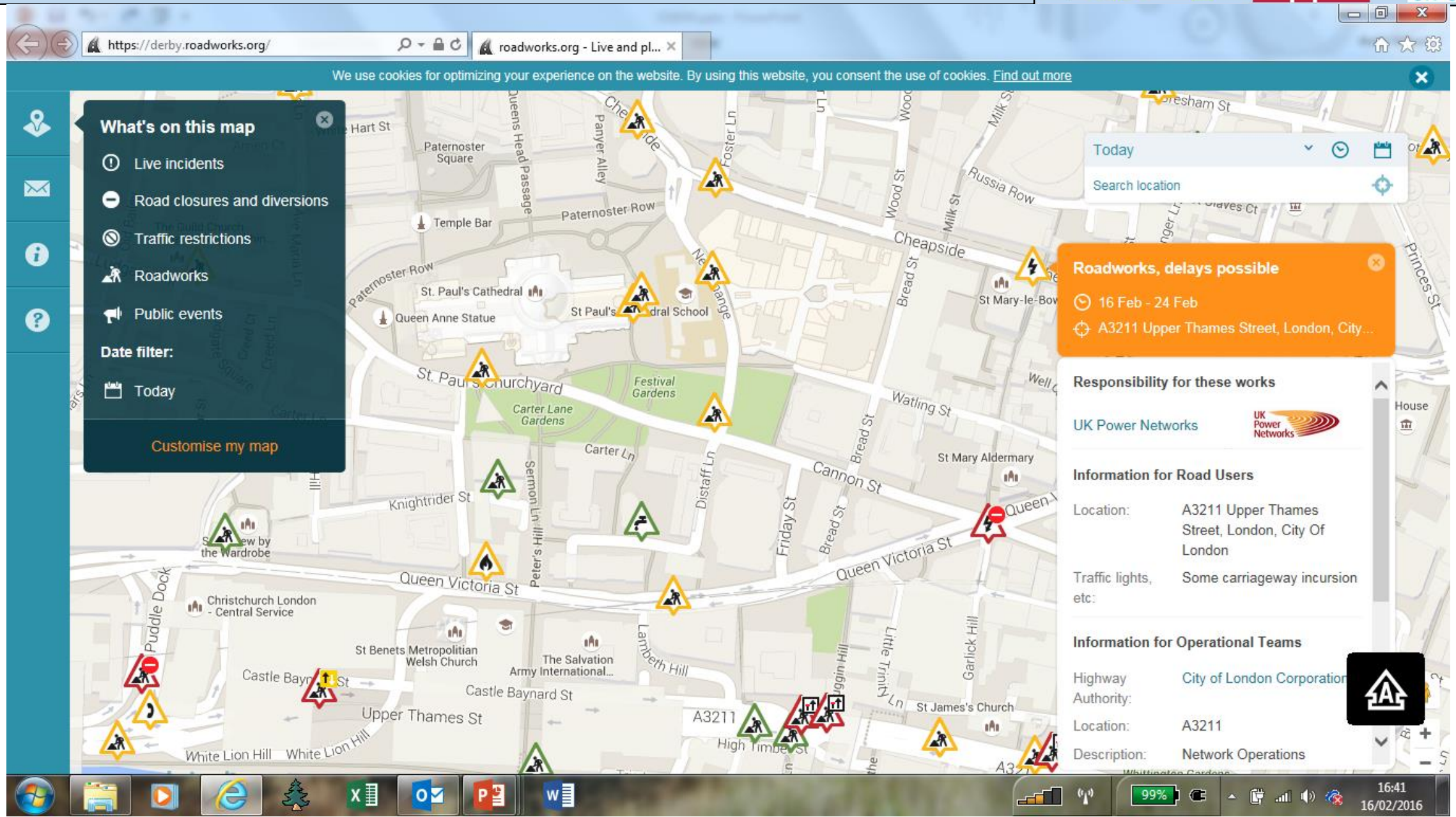
# Tell Us Once- UK Department for Works and Pensions

- Over 10 years, **$400 m** in savings is predicted – based on evidence-based pathfinders and trials.

- **$100 m of** savings for families over the next 10 years, resulting from the money saved on fuel or parking charges.



# Coordination of utility roadworks



# Resilience Mapping
## Everyone seeing the same information at the same time

ResilienceDirect

# Savings made UK public sector using spatial data

Gloucestershire County Council saves $3m on tendered bus services

East Riding of Yorkshire saves **$1.5m** on school transport

Harrow Council's waste project saves $4.8m over 10 years

Automated bus pass allocation project saves Liverpool **$75k**

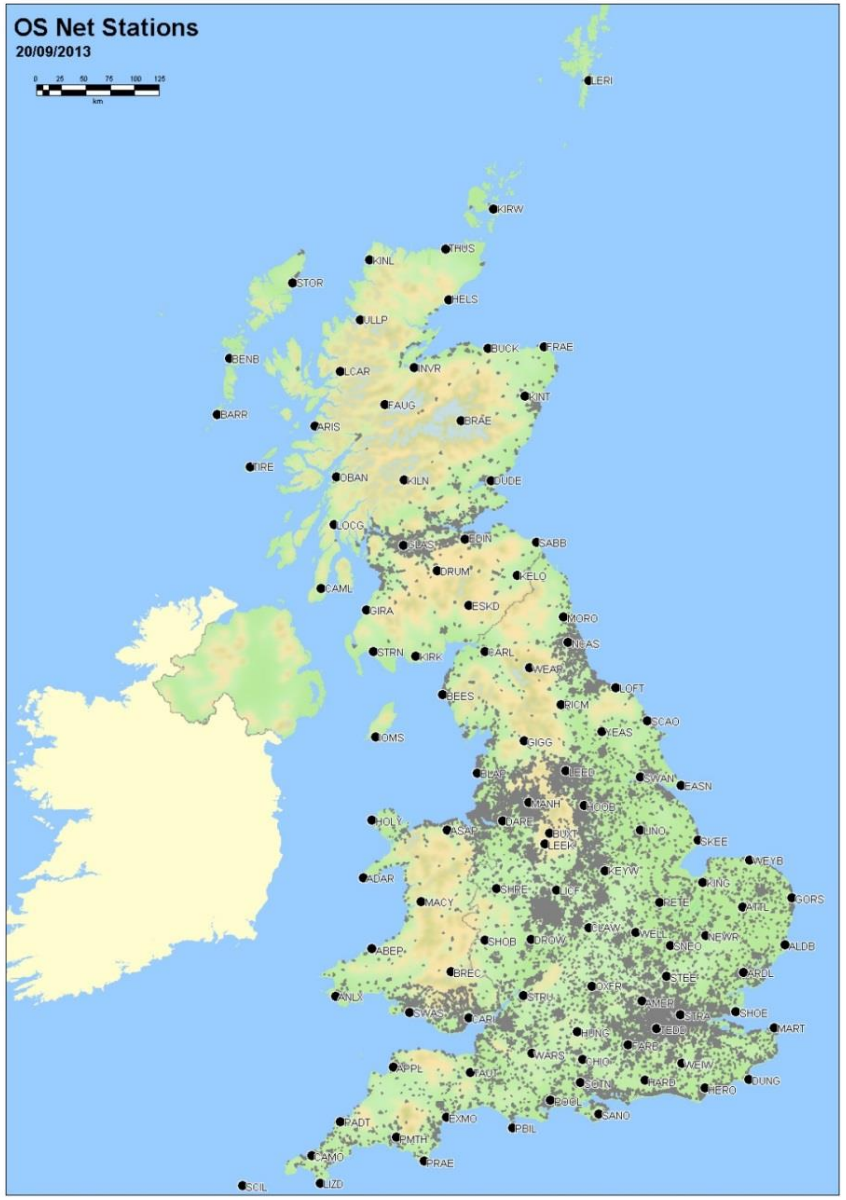
The Suffolk Waste Partnership saves St. Edmundsbury **$27k**

North Somerset District Council saves **$1m** on school transport

Lee Valley Regional Park Authority saves **$150k** on grounds maintenance

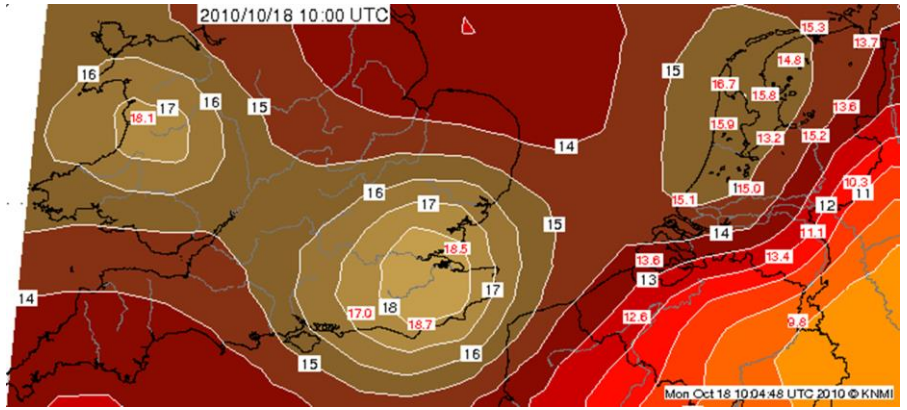
From 2002, London Borough of Sutton saves **$70k** yearly on SEN transport

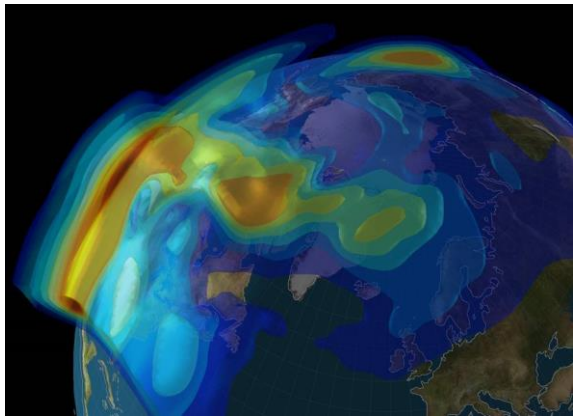
# OS Net- National CORS Network for Great Britain

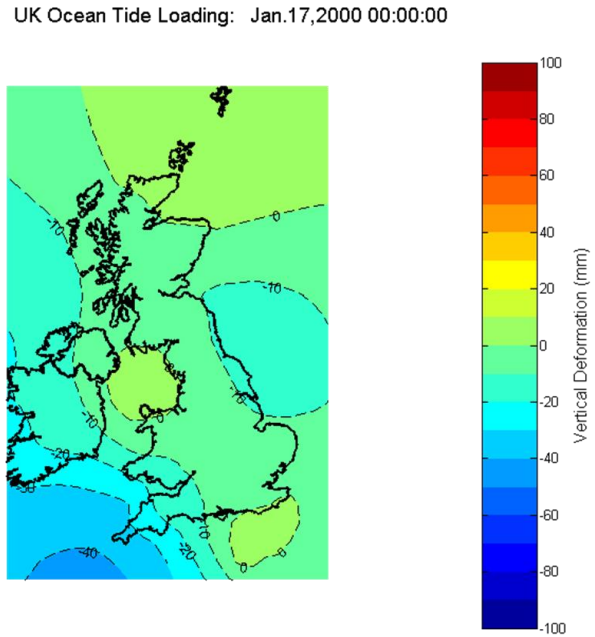


# OS NET data supports a wide range of business activity and academic research

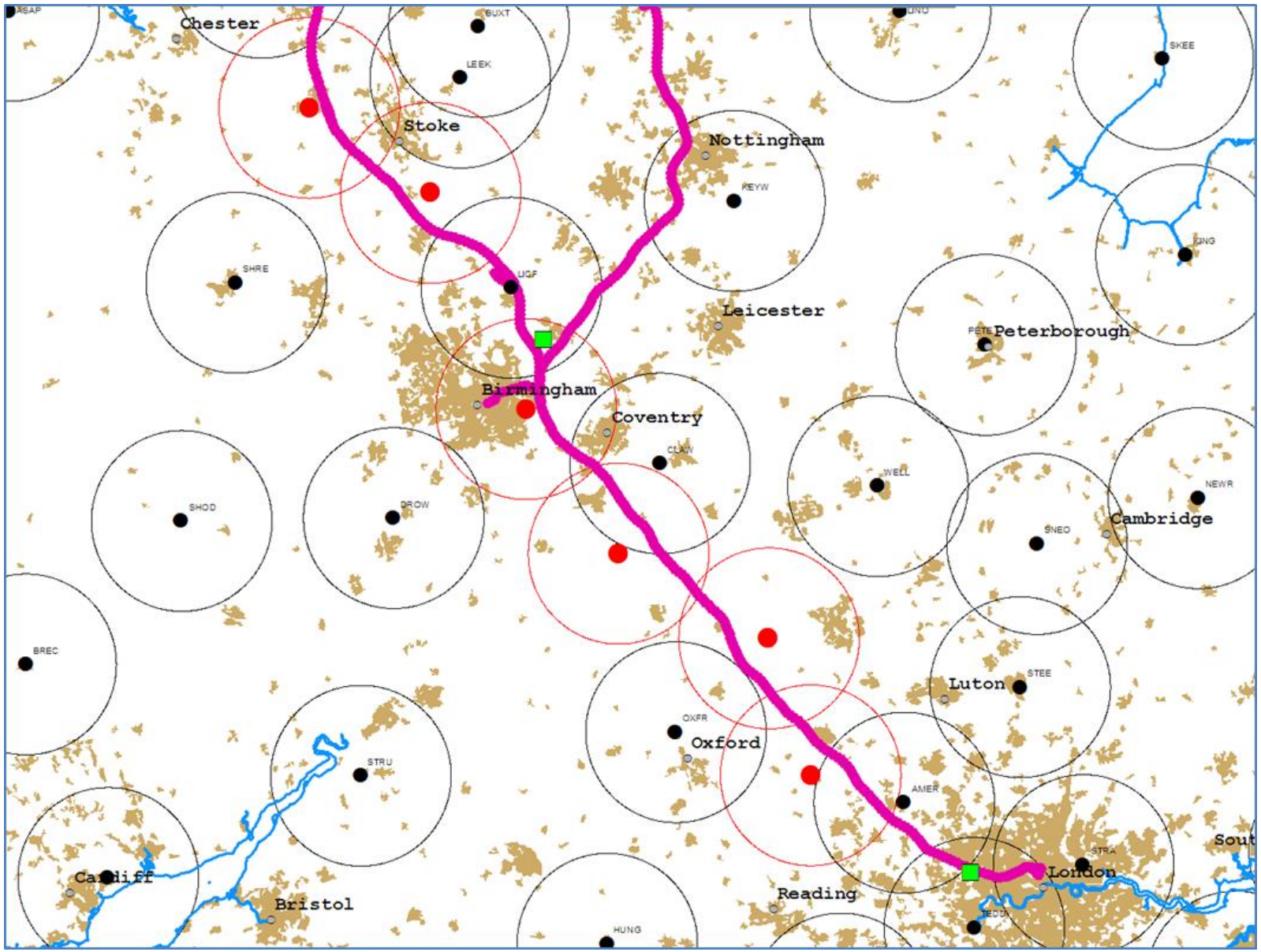
- Weather models
- Highways accident surveying
- Coastal monitoring & engineering
- Geology
- Integrated systems
- Long-term regional vertical land movement
- Meteorology & atmospheric studies
- Environmental monitoring, flood risk
- Wildlife & biodiversity
- Space studies (e.g. interferometry & altimetry)…





# Supporting key Infrastructure- High Speed 2 rail



# Economic Benefits of Spatially Connected Government

- Ordnance Survey data underpins **$113bn** of Great Britain's economy

  *Source- OXERA*

- For every **$1** spent on address and street spatial data **$4** is saved

  *Source-Geoplace*

- Across the 15 most commonly built applications using data from the UK single data framework, research shows that UK local authorities, police forces and fire services are already saving over **$187 million** every year

- If a majority (75%+) of local authorities and emergency services were to implement just these 15 most popular applications, savings would rise to over **$0.7 billion** each year.

  *Source- Mindmetre 2015*

- **0.2 to 0.6 GDP growth** in UK

# Key benefits of spatially connected government

- **Easy exchange** of information and **open data** between organisations and users through single location reference
- Underpins **innovation**
- Best evidence for **best policy creation** and optimised (smart) front line public services
- Easier interaction with citizens- **better public services** and **happier citizens**
- **Saves money**, **time** and the **environment**

# Thank You

Peter.Hedlund@osi.os.uk

+971 50 451 79 43