

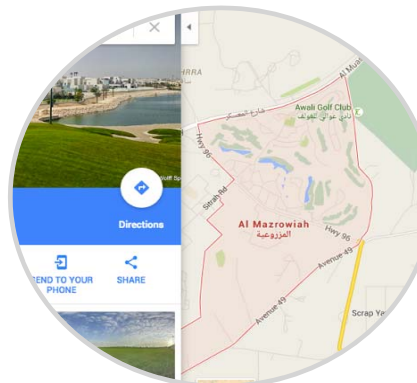
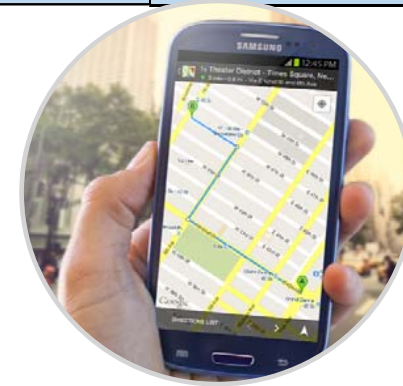


# Spatially Connected Government in Great Britain

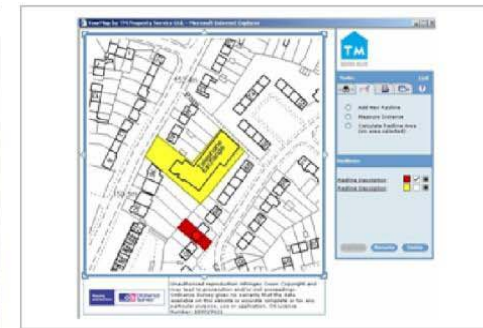
Peter Hedlund

CEO Ordnance Survey International

# Mapping is everywhere



# Location - a vital component!





## Location – a meeting point for information?



## 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

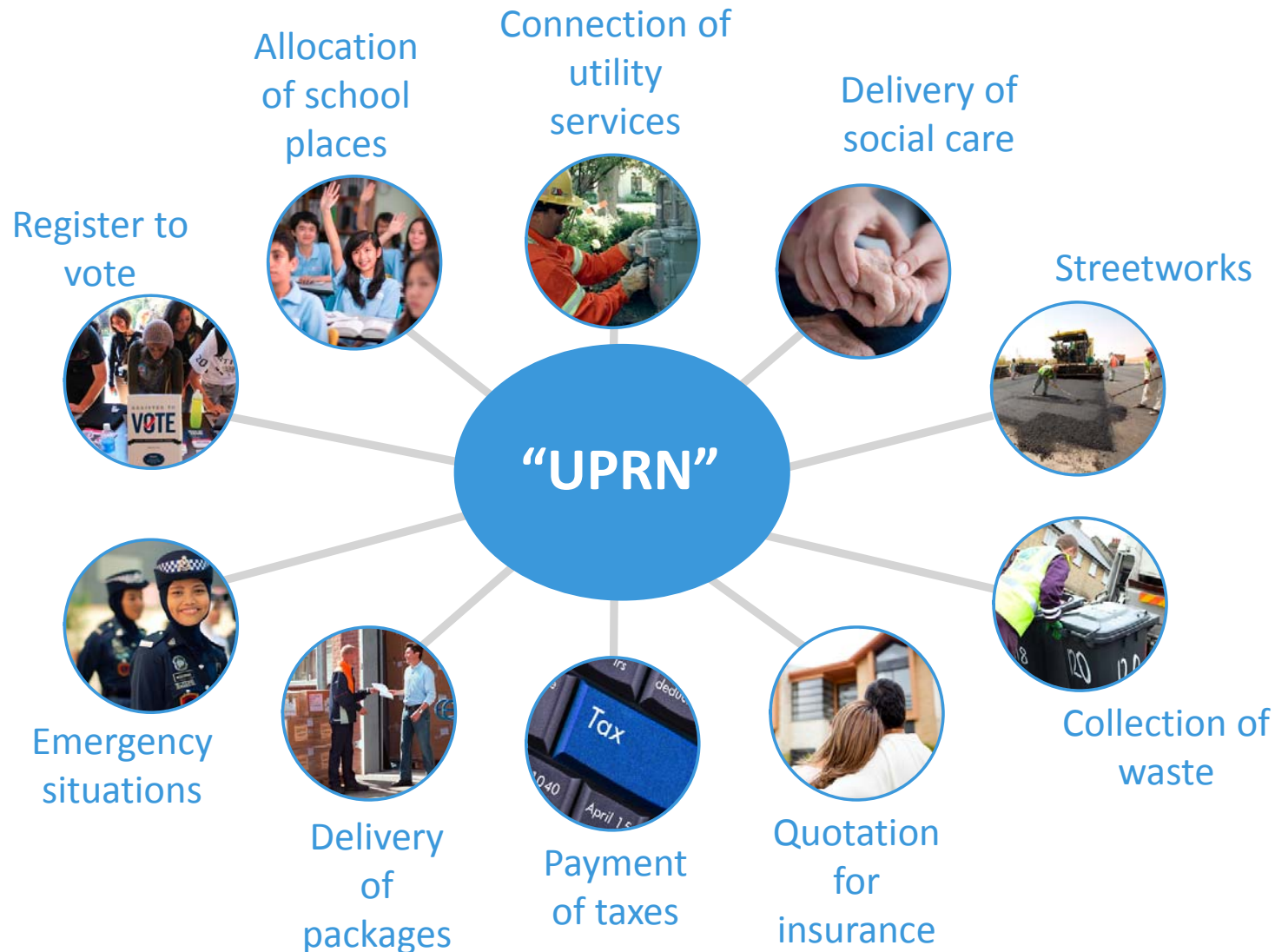
Land tax-Flat 1, 21 Ash Gr. London NW2 3LM

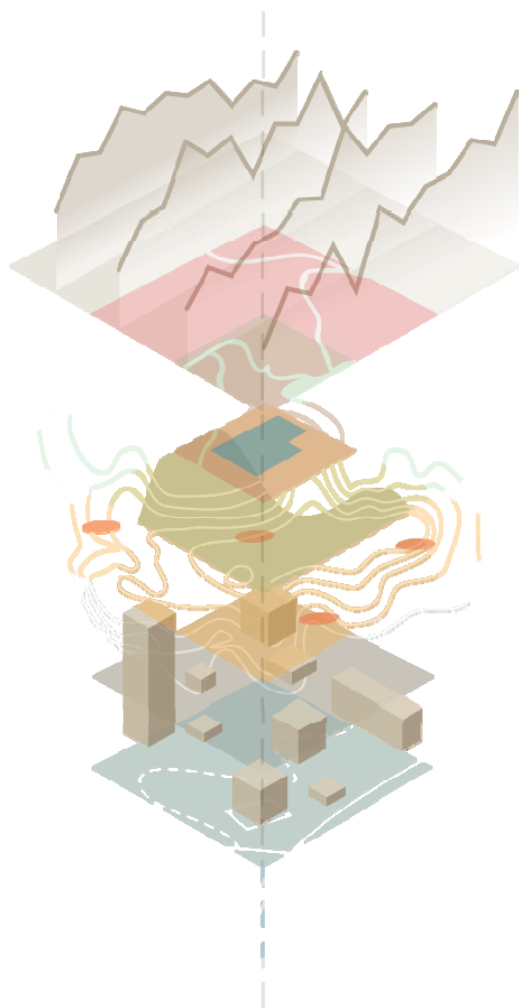
Fire-21A Ash Grove, Cricklewood

Local Municipality-FL 1 21 Ash Grove



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



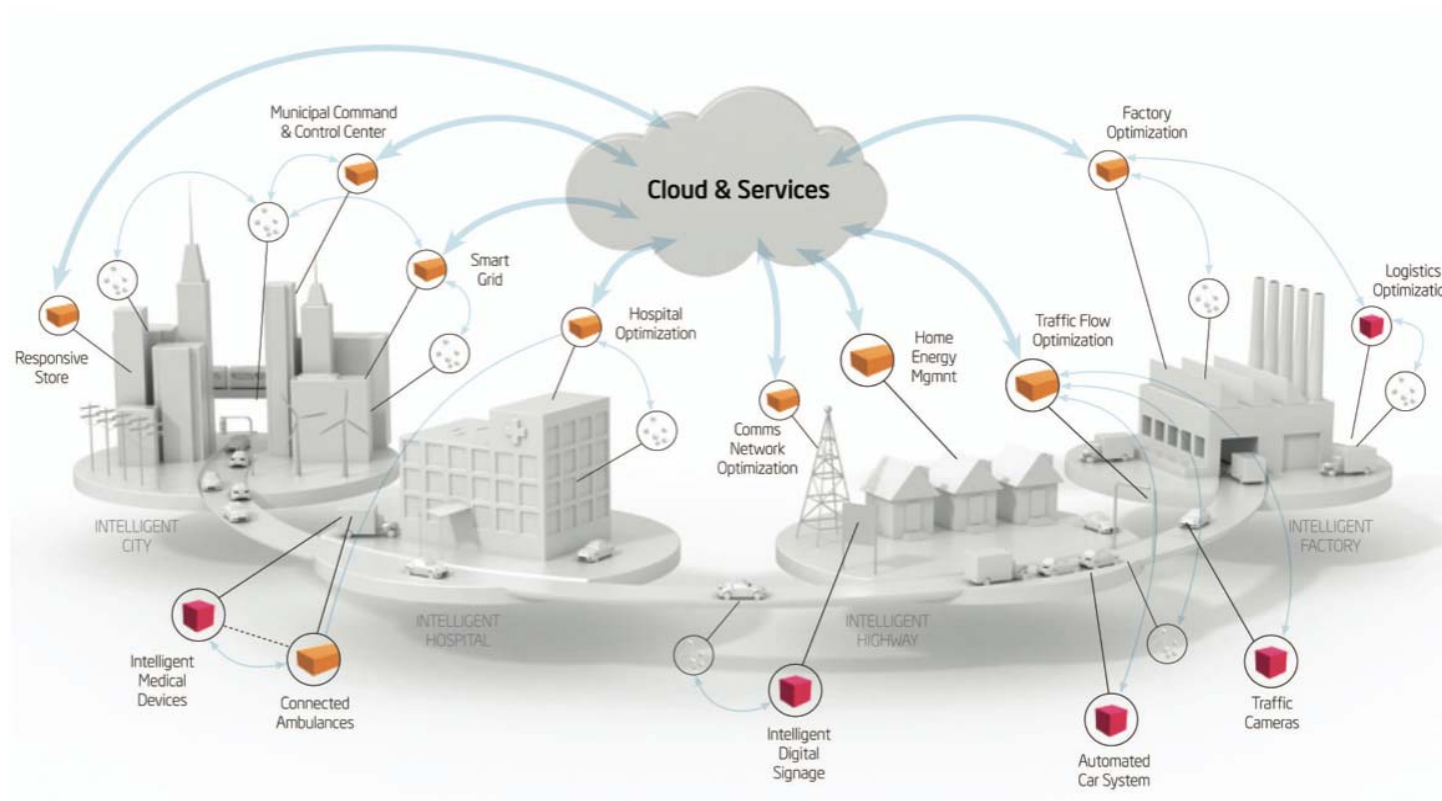


- Health records
- Flood plain
- Land ownership
- Utility supply/smart meters
- Topography
- Height of building? Floor levels?
- Crime, education, vulnerable persons

50 billion Internet-connected things by 2020



## Sensors Everywhere- (Things or Devices)

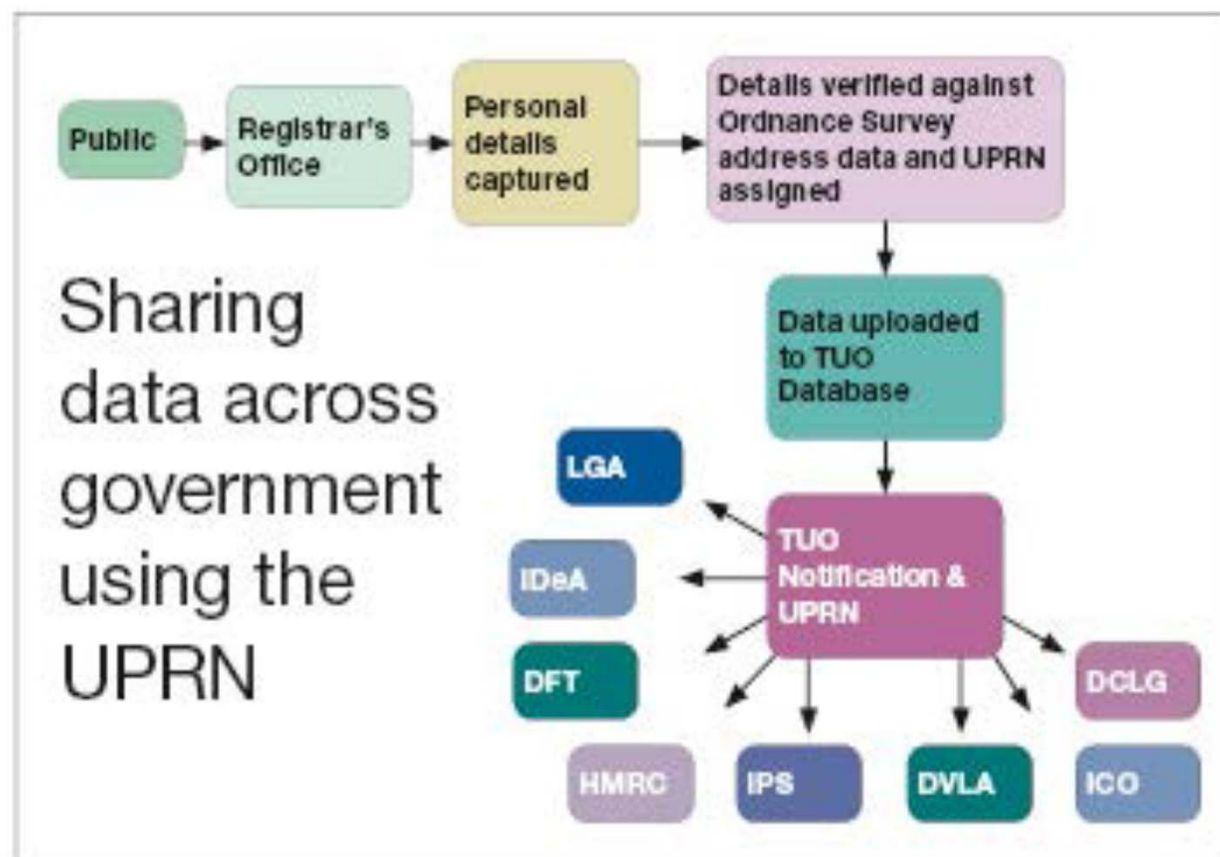


Slide source: Steve Liang,  
Univ. Calgary





- 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



https://derby.roadworks.org/ roadworks.org - Live and pl... x

We use cookies for optimizing your experience on the website. By using this website, you consent the use of cookies. [Find out more](#)

**What's on this map**

- Live incidents
- Road closures and diversions
- Traffic restrictions
- Roadworks
- Public events

**Date filter:**

- Today

[Customise my map](#)

**Today**

[Search location](#)

**Roadworks, delays possible**

16 Feb - 24 Feb

A3211 Upper Thames Street, London, City...

**Responsibility for these works**

UK Power Networks

**Information for Road Users**

Location: A3211 Upper Thames Street, London, City Of London

Traffic lights, etc.: Some carriageway incursion

**Information for Operational Teams**

Highway Authority: City of London Corporation

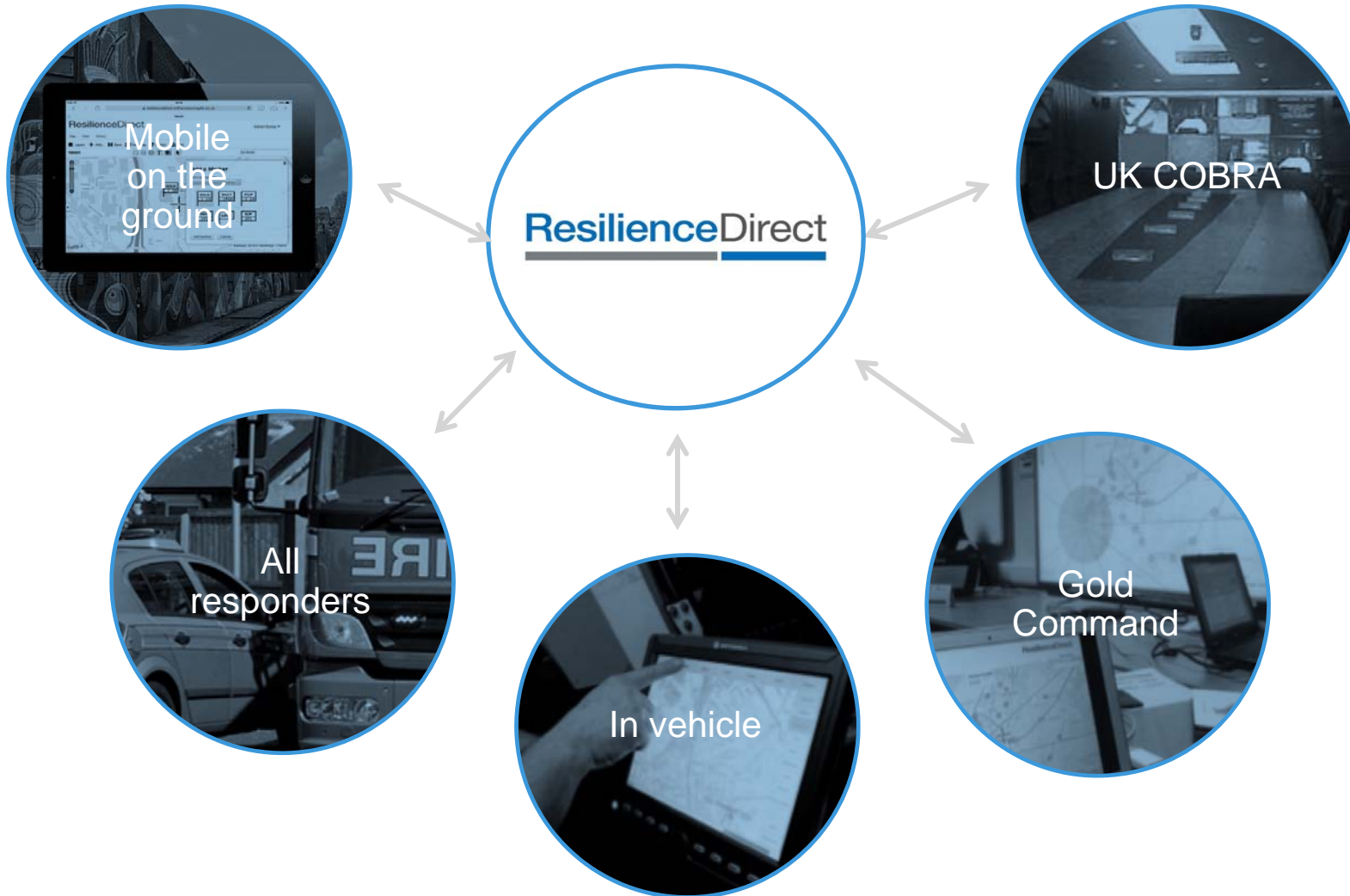
Location: A3211

Description: Network Operations

The screenshot displays the 'derby.roadworks.org' website interface. At the top, there's a navigation bar with a search function and a 'Today' filter. The main area features a map of London with various roadwork icons (yellow triangles with black symbols) indicating different types of incidents like road closures, diversions, and traffic restrictions. A detailed information panel on the right side provides specific details for a roadwork location on A3211 Upper Thames Street, including the responsible organization (UK Power Networks), the highway authority (City of London Corporation), and the expected duration (16 Feb - 24 Feb). The panel also includes information for road users, such as the location and potential traffic impacts (e.g., 'Some carriageway incursion'). The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating the time as 16:41 on 16/02/2016.

# Resilience Mapping

Everyone seeing the same information at the same time



## Savings made UK public sector using spatial data





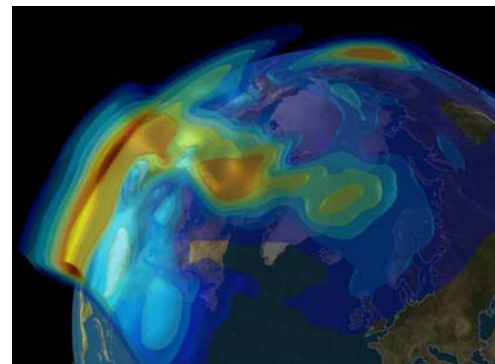
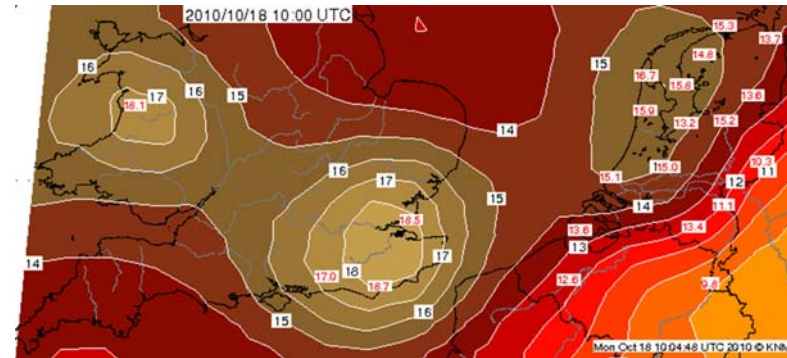
# OS Net- National CORS Network for Great Britain



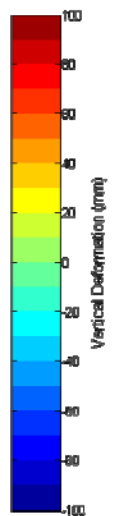
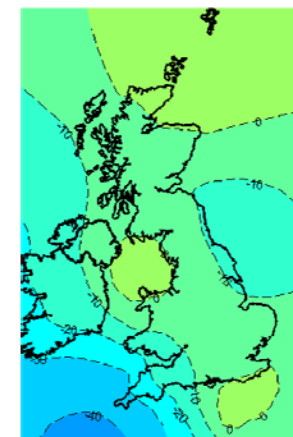
## OS NET data supports a wide range of business activity and academic research



- 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)...



UK Ocean Tide Loading: Jan.17,2000 00:00:00



## Supporting key Infrastructure- High Speed 2 rail







- 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





- **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

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