

The United Kingdom's Location Programme A Unique opportunity!

A Paper by Ray Boguslawski, Stefan Carlyle, & Keith Murray

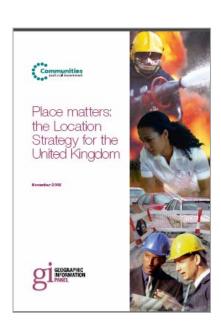
Presented by Miles Gabriel

UK-EOF Data Solutions Workshop 25th June 2009

Why did we need a Location Strategy for the United Kingdom?



- Current users of geographic information spend large amounts of time (up to 80%) collating and managing information
- ...instead of devoting this time to analysing information to solve problems and generate benefit
- Much of the information collected is not reusable
- Data is likely to have been collected using local rules preventing its reuse (with data about the same location from another organisation)
- Data may have been collected in a particular format not universally used
- Quality of the data maybe unknown



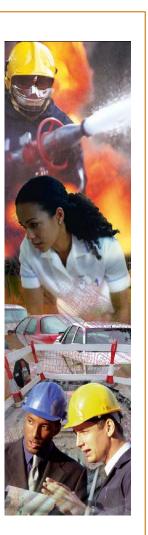
Note: It is estimated that up to 80% of Public Sector data has a location element

Place Matters: The Location Strategy – 5 Strategic Actions



- **28.** To ensure that the UK exploits the full value of its information the Location Strategy requires a programme of strategic actions which ensure that:
 - 1. we know what data we have, and avoid duplicating it;
 - 2. we use common reference data so we know we are talking about the same places;
 - 3. we can share location-related information easily through a common infrastructure of standards, technology and business relationships;
 - 4. we have the appropriate skills, both among geographic professionals and among other professional groups who use location information or support its use;
 - 5. we have strong leadership and governance to drive through change including the implementation of this Strategy and the implementation of INSPIRE.

Note: Para 28 of the UK Location Strategy

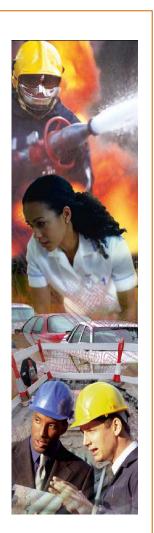


UK Location Strategy - why are we doing this? do

defra

"Good maps and location intelligence can help determine how quickly our ambulances turn up, where a policeman patrols, how we act in a national emergency. Knowing more about where we live can help us make the best decisions. But across the Country there is still too little sharing of the best practice and we are wasting time and money trying to find the information we need. The Location Strategy will ensure we make better use of information already held so we can use it faster and with less expense."

Baroness Andrews, Parliamentary Under Secretary of State, Communities and Local Government, November 2008



UK Location Programme



EC INSPIRE Directive

- Introduces standards to improve the interoperability of spatial information across Europe for environmental policy making
- Discovery, view and download services for EC, public authorities and the public

UK Location Strategy

- Re-use of all public sector location information
- Broader interpretation than INSPIRE will provide information for sustainable development, socio-economic analysis and many other purposes
- For improved policy making and public sector service delivery, economic benefit, open government and citizen engagement
- Joint programme to implement INSPIRE and UK Location Strategy because of the huge synergies

The UK Location Programme will deliver significant benefits



Better Service Delivery

- Improved / more effective Public Service
- Improved responsiveness
- Better cross organisational coordination

Delivering more for less

- Reducing costs of delivery while providing more value
- Cutting duplication and promoting reuse

Enabling the provision of innovative new services

- Providing services which have been impractical or not cost effective to date
- New knowledge from different combination of data / data sets



Case Study: A collaborative approach to manage flooding – the Atlantis project



Context:

- Pitt Review 2007

 better flood modeling needed
- Atlantis was created to understand the issues and agree standards to provide interoperable base geographic and environmental data

Benefits

- Consistent approach to flooding
- Improving flood modeling and predictions
- Improved forecasting and warnings
- Better planning for national or local responses













"25-50% of project costs are spent on accessing and cleaning up data"





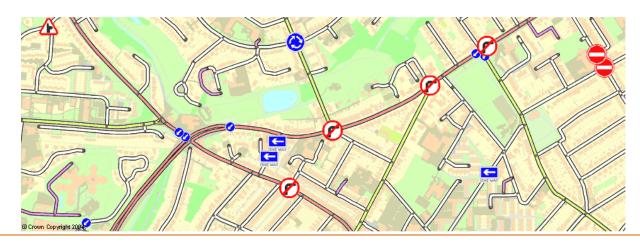
Case study: Local decision-making improved resulting in cash savings



Council improves School Transport Services

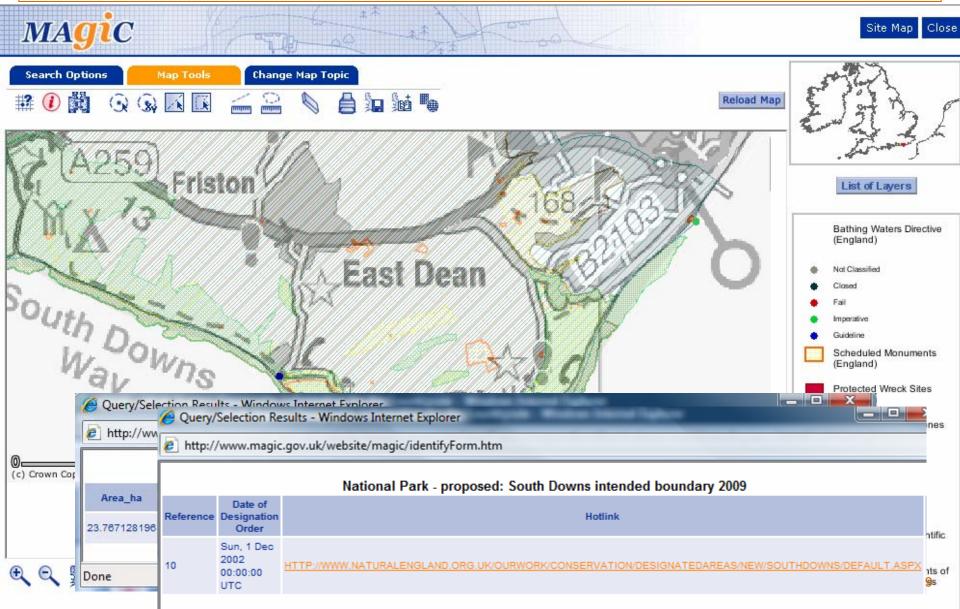
- East Riding Council used road data together with pupil home address records and road flow / congestion data to analyse school bus routes
- They saved £160,000 annually by improving school bus services for just two secondary schools in addition to giving the children a better service





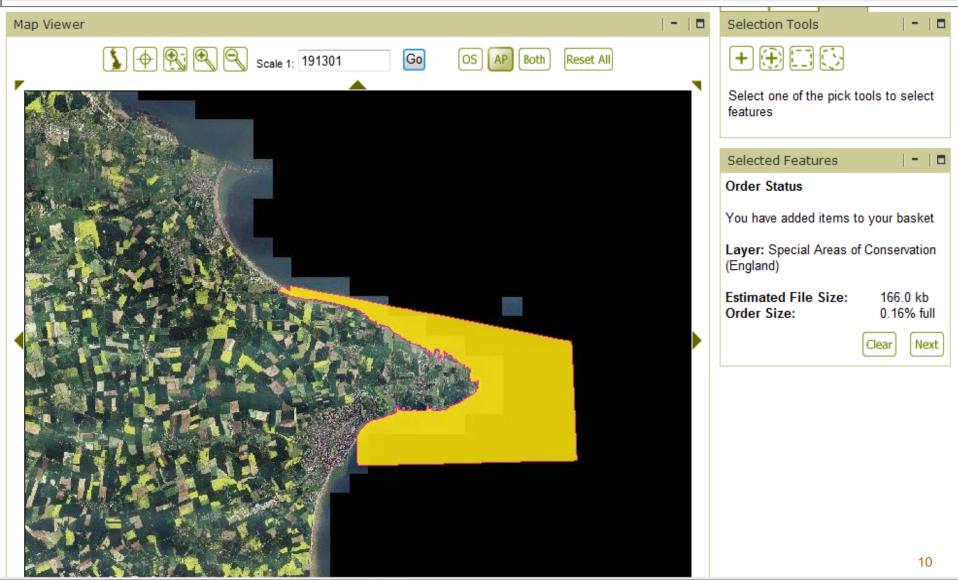
Case study: Providing environmental information to citizens





Case study: Discovering data





Case study: Managing animal disease incidents



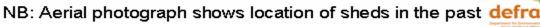




DATE CREATED: 2008-06-13 12:00 hrs CREATOR: RADAR Team, Defra Sources: Animal Health, New Perspectives

Clean Drive

NPublic Footpath

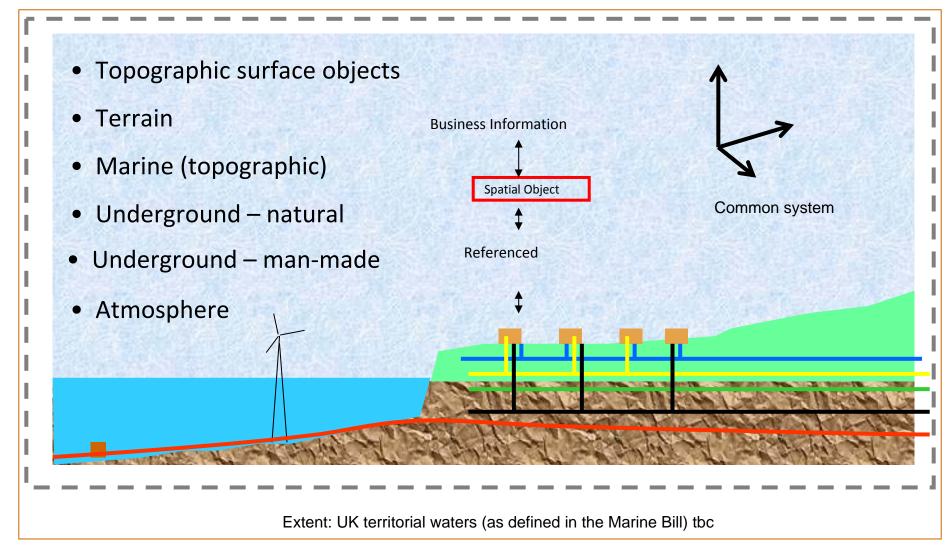






Scope of data





The UK Location Programme

Data Scope





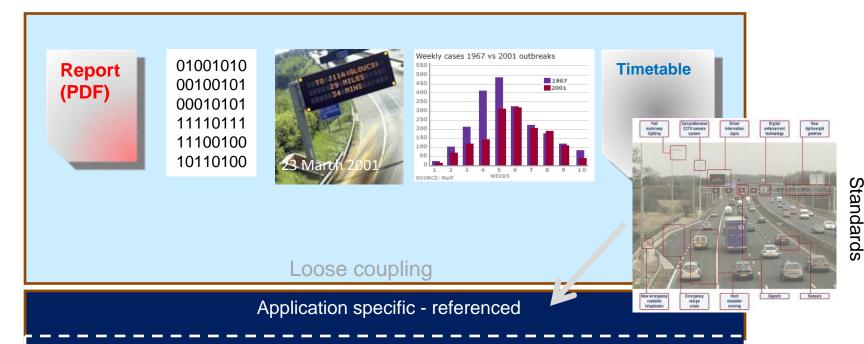


Annex 1	Annex 2	Annex 3	
Geographical names	Elevation	Statistical units	Buildings
Administrative units	• Land cover	Mineral resources	Sea regions
Addresses	 Ortho-imagery 	Natural risk zones	Land use
Cadastral parcels	 Geology 	• Soils	Energy Resources
• Transport networks (streets)		Species distribution	Habitats & biotopes
Hydrography		Environmental monitoring facilities	Human health & safety
Protected sites		Population dist. & demography	Utility & govt. services
		Meteorological features	Atmospheric conditions
Coordinate reference systems		Agricultural and aquaculture facilities	Bio-geographical regions
Geographical grid systems		Oceanographic features	 Production & industrial facilities
		 Area management restriction/regulation zones & reporting units 	

Topographic data (2.5D)

Types of data





Widely reused - widely references

Extensive use of shared data envisaged



Users: citizen, consumer, public and private sector, academia

Public Sector

applications

External

Internal applications

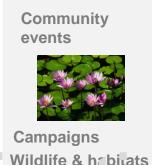
3rd Sector

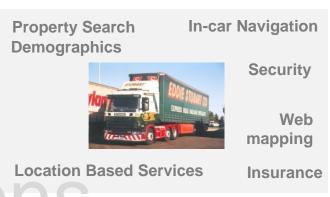
Private Sector

Planning
Statistics

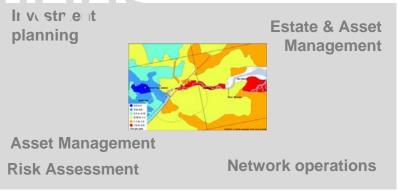
Weather
Leisure & recreation

Local democracy
Local Risks







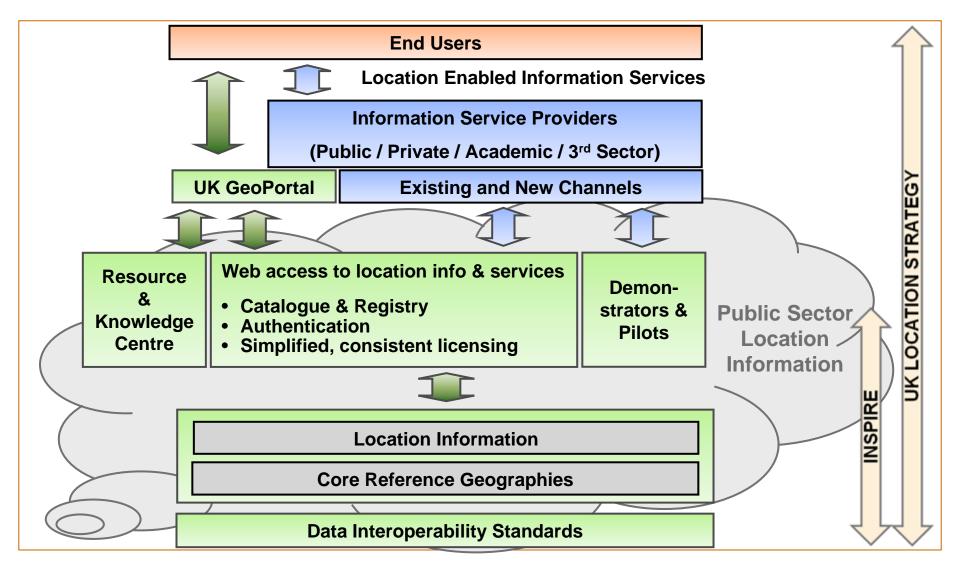


Coordinated Location Information within wider information infrastructure

What is the programme delivering?

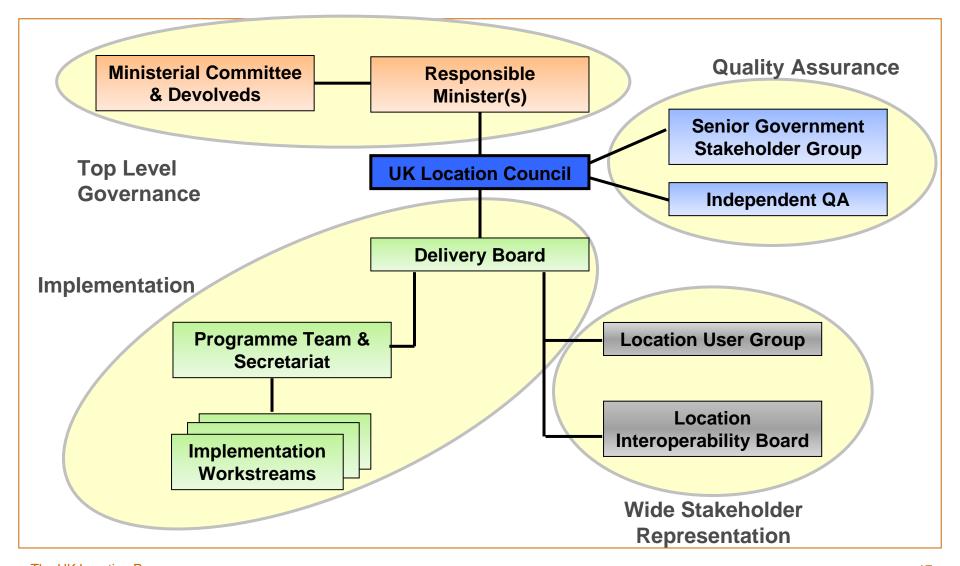






Decision making and engagement





The UK Location Programme

Roadmap for the programme



MID 2009 – MID 2011 BASIC INFRASTRUCTURE AND SERVICES	MID 2011 – MID 2013 EXTENDED SERVICES AND APPLICATIONS	MID 2013 ONWARDS BUSINESS AS USUAL ENHANCEMENTS
Communications website INSPIRE transposition into UK le Agree INSPIRE implementing r Initial demonstrators and pilot Initial advice, guidance and Metadata tool Geo-portal with catalogu Set up Co-ordination le	ules and UK specifications s toolkits e, registry, simple view facilities and res	ource centre
	Further legislative updates (if necessar Common licence agreements Data providers supported in makin Extended advice, guidance and Geo-portal with basic rights more extend the breadth of data a	g changes to their systems toolkits amt and links to download facilities
BUILD THE FUNCTIONS AND TO ALIGNED TO INSPIRE AND UP	>	More extensive rights management Extended reference geographies BAU service enhancements

DATA DELIVERY TO MEET INSPIRE AND WIDER UKLS REQUIREMENTS

BUSINESS CHANGE

The UK Location Programme

Conclusion



- Cross-government programme is underway to deliver INSPIRE and the UK Location Strategy
- Legal transposition will be completed this year
- Conceptual design work nearing completion "support" model to deliver value well understood
- Top level governance established and wider governance planned
- Engagements taking place with key stakeholders to understand needs and deliver benefits
- Next steps to agree business case and begin creating the UK SDI



Thank you



For further information visit:

http://www.defra.gov.uk/location/

Or contact the UK Location Programme by email:

uklocationprogramme@defra.gsi.gov.uk