



Seeing the bigger picture: Mapping out a vision of INSPIRE

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Agenda



The aims of this presentation are:

- To cover UK preparations for transposition & implementation
- Outline the components of UK INSPIRE
- Describe the implementation vision
- Present a high level implementation blueprint

Why INSPIRE?



The UK has faced a number of major environmental challenges in the past year. Creating a UK Spatial Data Infrastructure, as part of a wider European Spatial Data Infrastructure will help the UK manage and mitigate the impacts of these events more effectively.

Why INSPIRE?



Summer Floods

Why INSPIRE?



Foot and Mouth

Why INSPIRE?



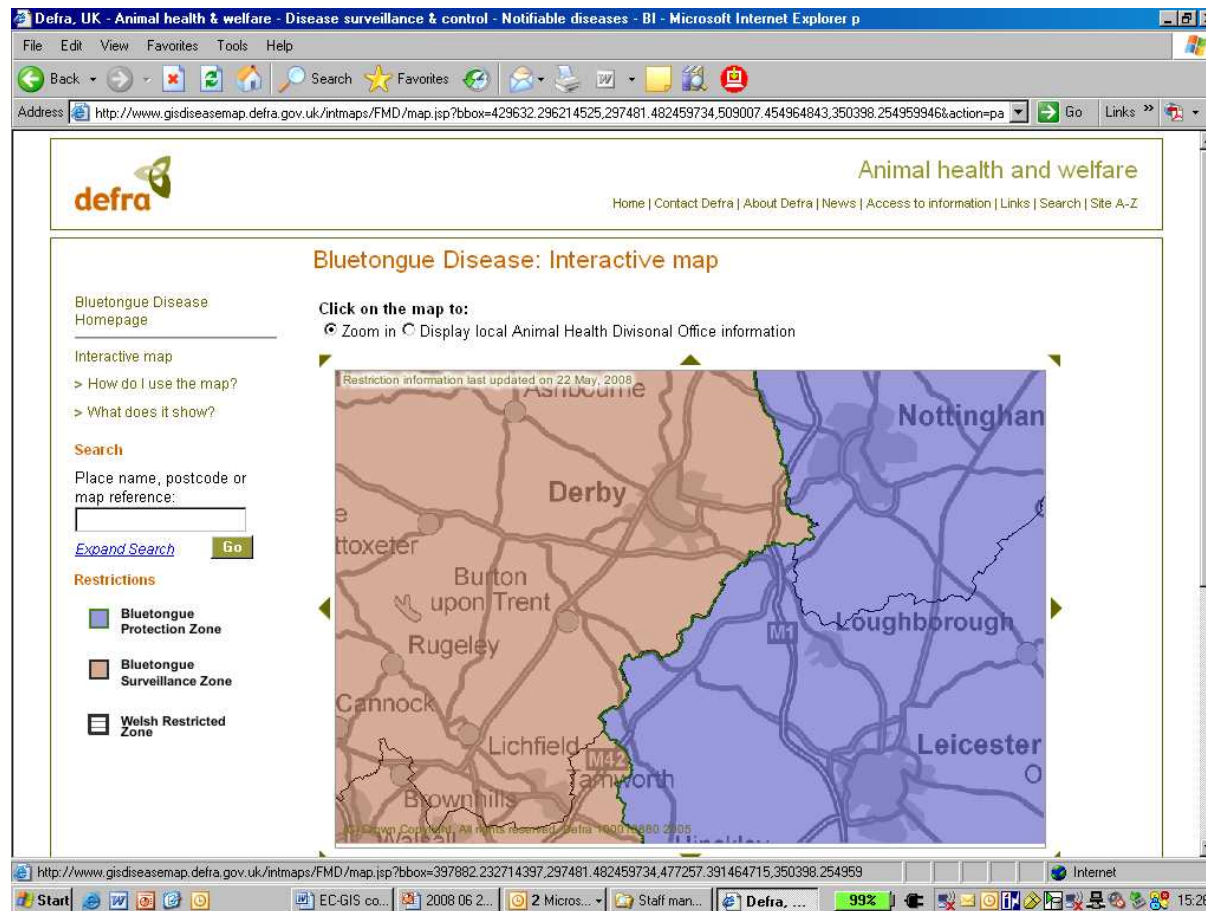
Blue tongue

Why INSPIRE?



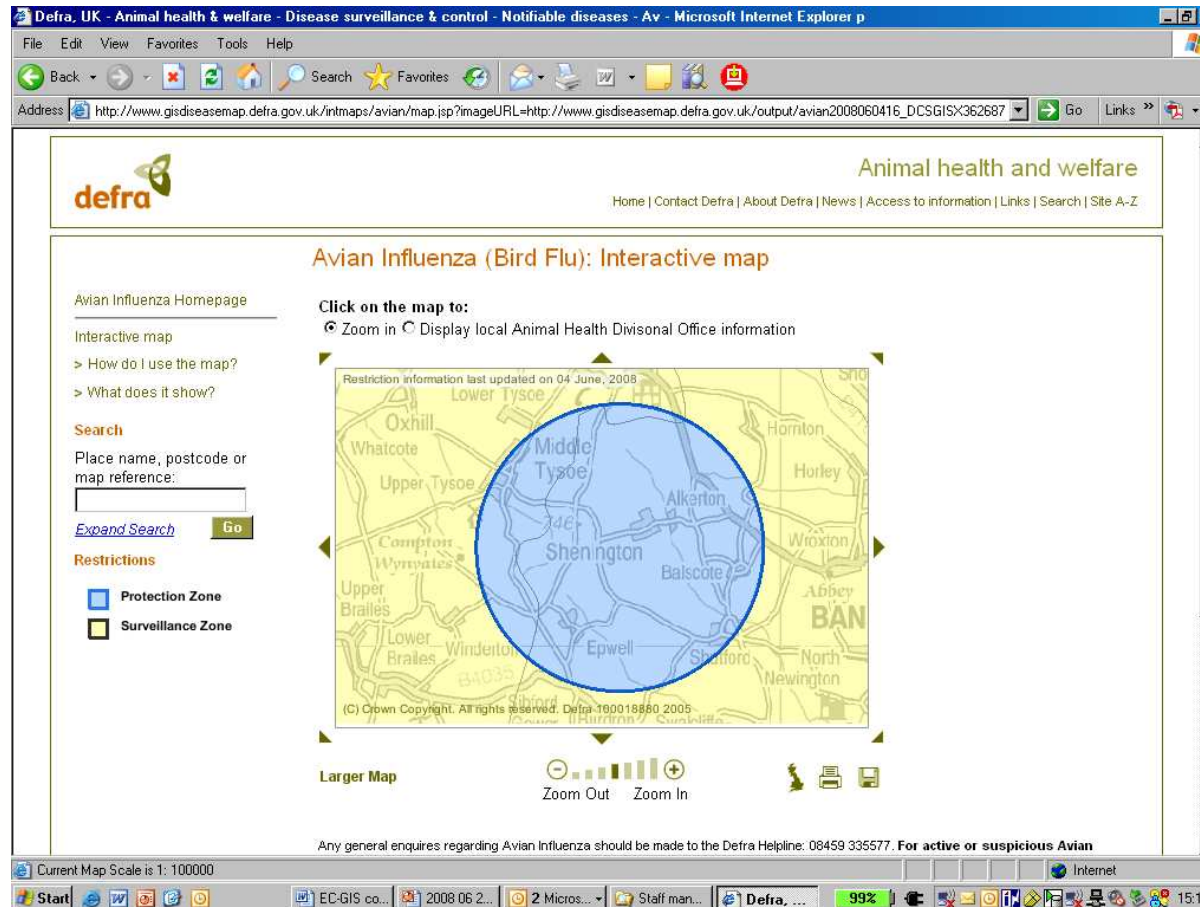
Avian influenza

Why INSPIRE?



Spatial data used to help tackle these challenges

Why INSPIRE?



Defra, UK - Animal health & welfare - Disease surveillance & control - Notifiable diseases - Av - Microsoft Internet Explorer p

File Edit View Favorites Tools Help

Address http://www.gisdiseasemap.defra.gov.uk/intmaps/avian/map.jsp?imageURL=http://www.gisdiseasemap.defra.gov.uk/output/avian2008060416_DCSGISX362687

defra Animal health and welfare
Home | Contact Defra | About Defra | News | Access to information | Links | Search | Site A-Z

Avian Influenza (Bird Flu): Interactive map

Avian Influenza Homepage

Interactive map

- > How do I use the map?
- > What does it show?

Search

Place name, postcode or map reference:

[Expand Search](#)

Restrictions

- Protection Zone
- Surveillance Zone

Restriction information last updated on 04 June, 2008

Click on the map to:

- Zoom in
- Display local Animal Health Divisional Office information

Larger Map

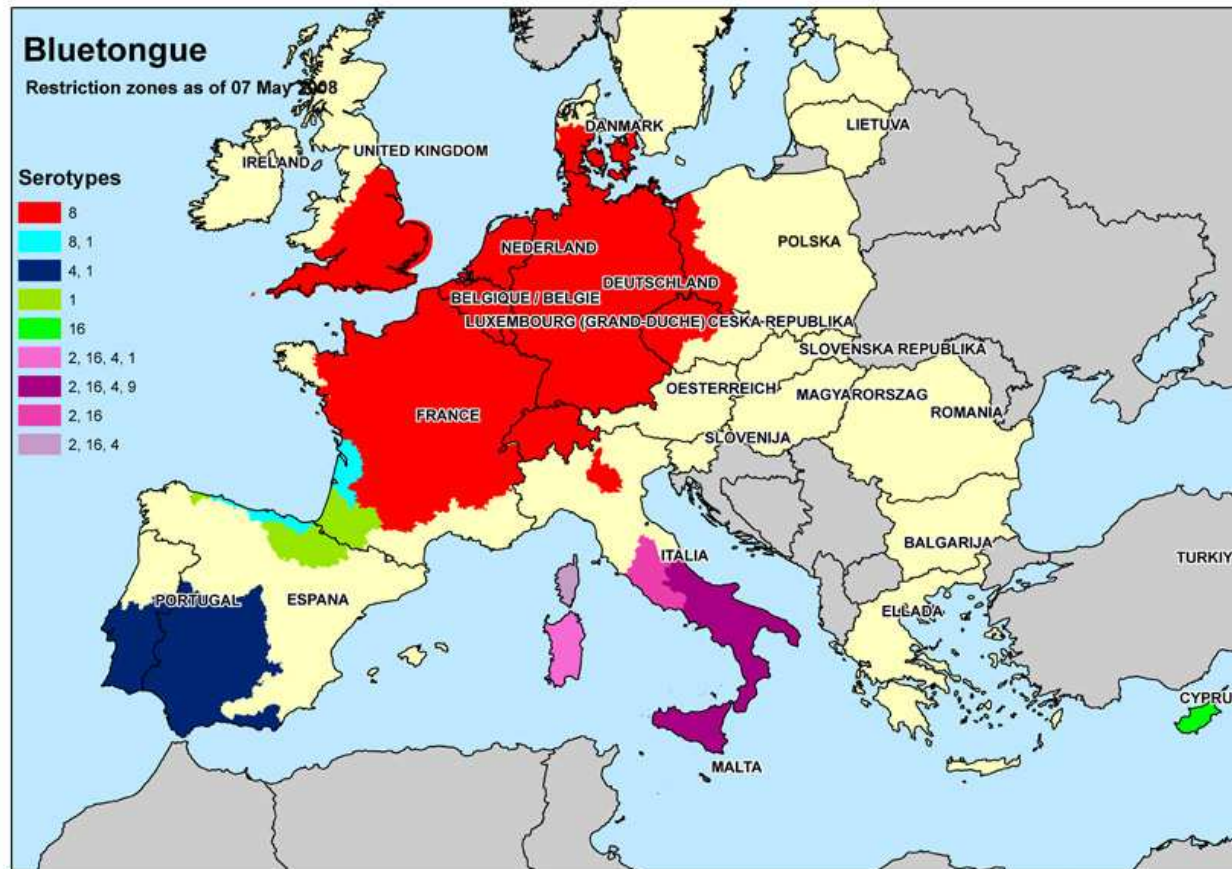
Zoom Out Zoom In

Current Map Scale is 1: 100000

Any general enquires regarding Avian Influenza should be made to the Defra Helpline: 08459 335577. For active or suspicious Avian

Spatial data used to help tackle these challenges

Why INSPIRE?



Spatial data used to help tackle these challenges

What will it involve?



The UK does not have a formal or managed NSDI but the anticipated UK Location Strategy will deliver this and it has been agreed by the UK's Geographic Information Panel that implementation of the two initiatives will be taken forward in parallel. It will involve:

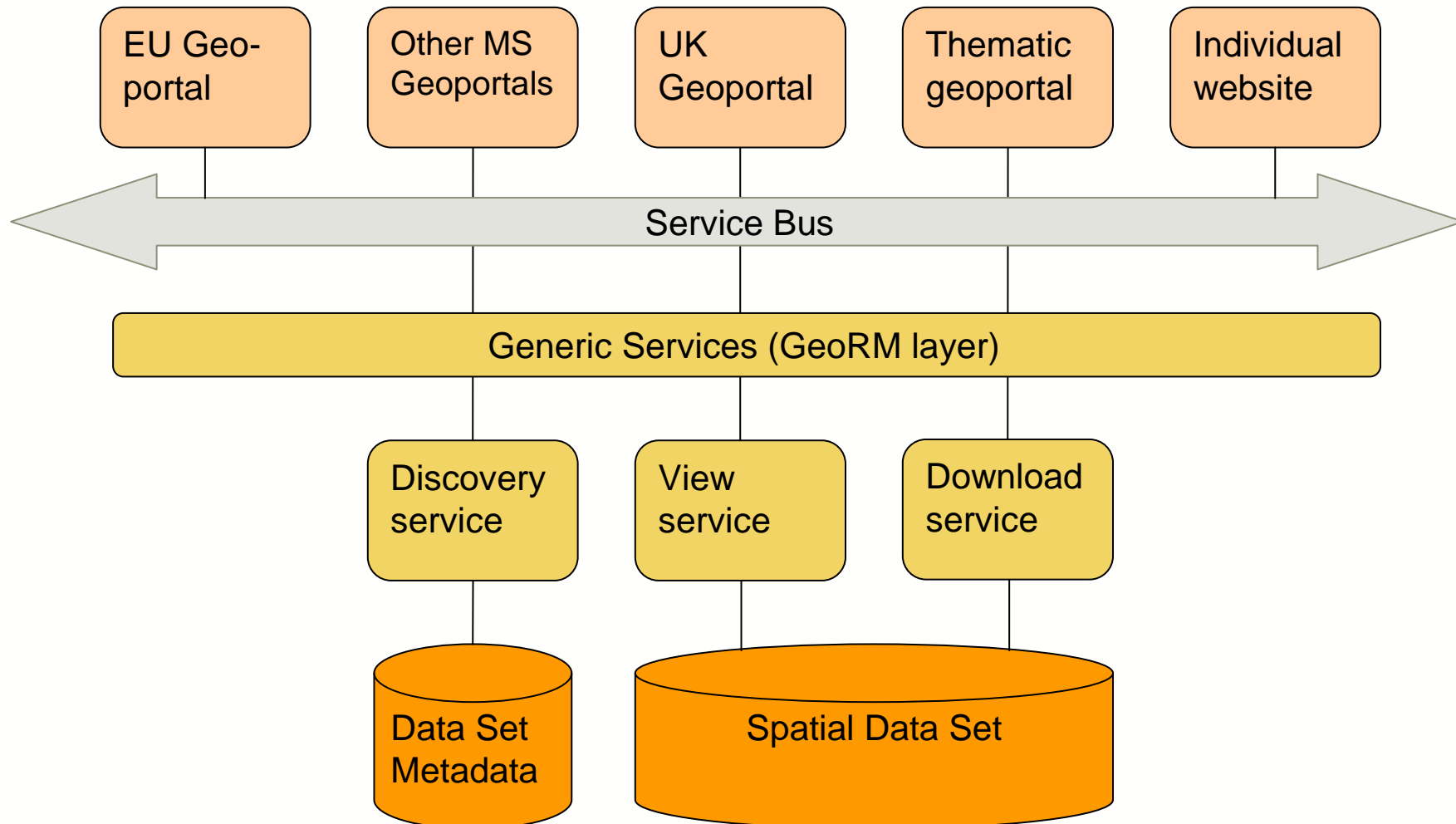
- Providing catalogues that allow users to identify what information is available (metadata)
- Ensuring that information from different sources can be integrated (this will require information to adhere to specified common standards that INSPIRE will lay down)
- Provision of online services such as discovery (find out what data exists), view (to display, navigate, zoom in/out, pan, or overlay viewable spatial data sets), download (to obtain the data) and transform (to enable data interoperability)
- Having licensing arrangements that allow information to be shared, accessed and used in accordance with Freedom of Information legislation, the Environmental Information Regulations and the Public Sector Information Regulations
- Monitoring mechanisms to demonstrate that the information is being made available
- Co-ordination mechanisms to ensure effective operation of the infrastructure

In essence, INSPIRE provides a legislative framework that promotes best practice

Publish once: use many times



A key principle of INSPIRE is to publish data once and use many times



UK INSPIRE operational framework



Users	General Public	International Government and bodies	UK National Government	UK National Delivery Bodies	UK Local Government	Academia / Research	NGOs / Third Sector	Private Sector
Purposes	Local data searches and regional comparisons	Cross border monitoring and policy development	Better use of evidence for developing policy	Better planning and service delivery	Benchmark and plan better services	Environment research and modelling	Promoting new environmental measures and services	Develop new products / services and reach new markets
Access Points	EC Geoportal	Other Member States' portals	UK Geoportal	UK Member State portal	Thematic Geoportal	Government websites	Commercial websites	
User Services	Administrative services	Discovery service	View service	Download service	Online analytical service	Commercial services		
Data	Annex 1 - Core Geography		Annex 2 - Thematic Data		Annex 3 - Thematic Data			
Publication Mechanisms	Publication hub (publish metadata and datasets from multiple data providers)				Self publication (publish own metadata and datasets)			
Provider Services	Data collection	Data validation	Transformation to INSPIRE format	Metadata creation	Registration (data/application specs, ref. schemes)	Publication		
Providers	Other Member States	UK Government Departments	UK National Delivery Bodies	UK Local Authorities	Other Public Authorities	NGOs / Third Sector	Private Sector Organisations	
Coordination	EC & UK reporting	Representation to EC groups	Usage logging	Cost benefit tracking	Audit & quality assurance	Marketing & communications	Guidance and support	

UK INSPIRE – organisational view outlining responsibilities



Central co-ordination

Defra-based INSPIRE Unit

- Co-ordinates implementation and ongoing operations
- Operates UK portal that includes metadata registration service
- Contact point for European Commission
- Compiles and submits monitoring reports to EC
- Co-ordinates UK representation to EC working groups
- Collates material on costs and benefits of the Implementing Rules
- Ensures compliance with Directive
- Provides central communications, marketing and guidance
- Promotes skills development

Metadata registration

Each data provider registers its metadata with the Defra-based INSPIRE Unit

Data publication

Self-publication

Publication by third party on behalf of data provider 2

Publication on behalf of data providers 3-5**

Data management

Data provider 1 manages its data in compliance with INSPIRE standards*

Data provider 2 manages its data in compliance with INSPIRE standards

Data provider 3 manages its data in compliance with INSPIRE standards

Data provider 4 manages its data in compliance with INSPIRE standards

Data provider 5 manages its data in compliance with INSPIRE standards

* Data and metadata published for INSPIRE must meet INSPIRE metadata and data interoperability standards. Data providers responsible for making their data available via network services: discovery, view, download, transformation and invoke spatial data services.

** By one of data providers 3-5 or a third party.

UK INSPIRE vision



Implementation of INSPIRE in the UK will deliver a step change in data management, data interoperability and data sharing across the public sector, supported by better integration with mainstream information services. As a result, citizens will have ready access to the information they need to go about their daily lives, whether at home, in business, in research or in government. Doing this will exploit the full value of the UK's spatial information. Specifically, we will:

Know what data we have, and avoid duplicating it;

Use common reference data so we know we are talking about the same places;

Share spatial information easily through a common infrastructure of standards, technology and business relationships.

Key to implementing INSPIRE will be skills development and marketing, both among geographic professionals and other professional groups who use spatial information or support its use.

UK INSPIRE Blueprint elements



- Governance
- Compliance
- Co-ordination

UK INSPIRE Blueprint elements



- Data Sharing Policy
- Data Management
- Services

UK INSPIRE Blueprint elements



- Licensing and charging
- Funding

UK INSPIRE Blueprint elements



- Links to related initiatives
- Potential components

Summary and next steps



Summary

- Covered UK preparations for transposition & implementation
- Outlined the components of UK INSPIRE
- Described the implementation vision
- Presented a high level blueprint

Next Steps

- Start drafting transposition legislation – phased approach?
- Further consultation with stakeholders
- Initiate an implementation programme to start building a UK SDI

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