

# AGINI - 25th October 2011

- Bob Gartley
- Accounts Manager
- GI Development Group



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# Big issues

1. Orthos
2. L/S maintenance
3. Pointer
4. LPIS
5. Positional Improvement
6. Inspire



# Orthophotography

- New camera – new plane
- Higher resolution possible – near infra red?
- Can accommodate poorer weather
- Quicker turn-a-round
- Bespoke photography



# Panchromatic Large Format Image

Microsoft

**Master Cone**



Serious Solutions For Serious Mapping

VEXCEL  
IMAGING  
a Microsoft company



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UCXp(WA)-EN.pdf - Adobe Reader  
File Edit View Document Tools Window Help

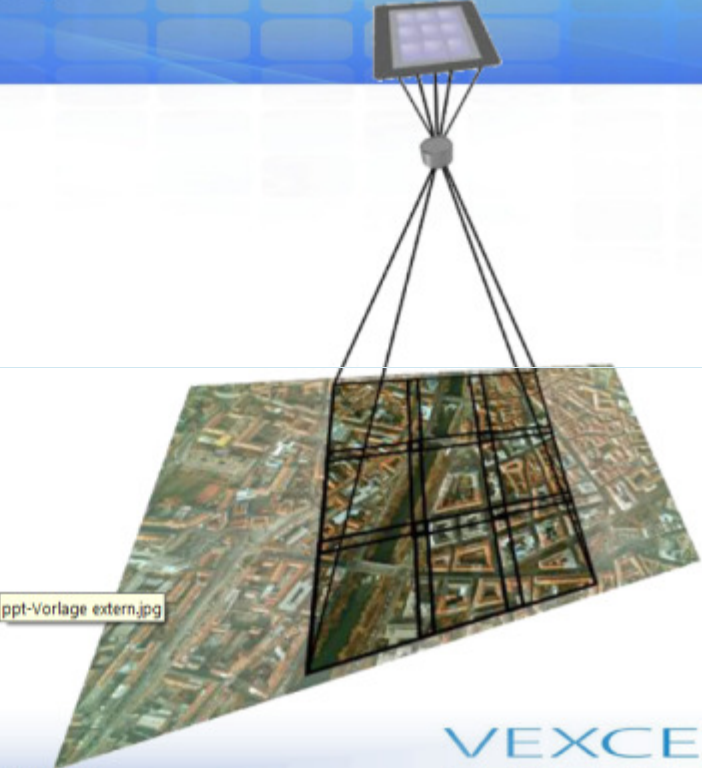
25 / 88 86.2% Find

# Syntopic Exposure

**Microsoft**

**Full Frame  
T1 + 3 msec**

**Cone 1+2+3+4**



ppt-Vorlage extern.jpg

**VEEXCEL**  
IMAGING  
a Microsoft company

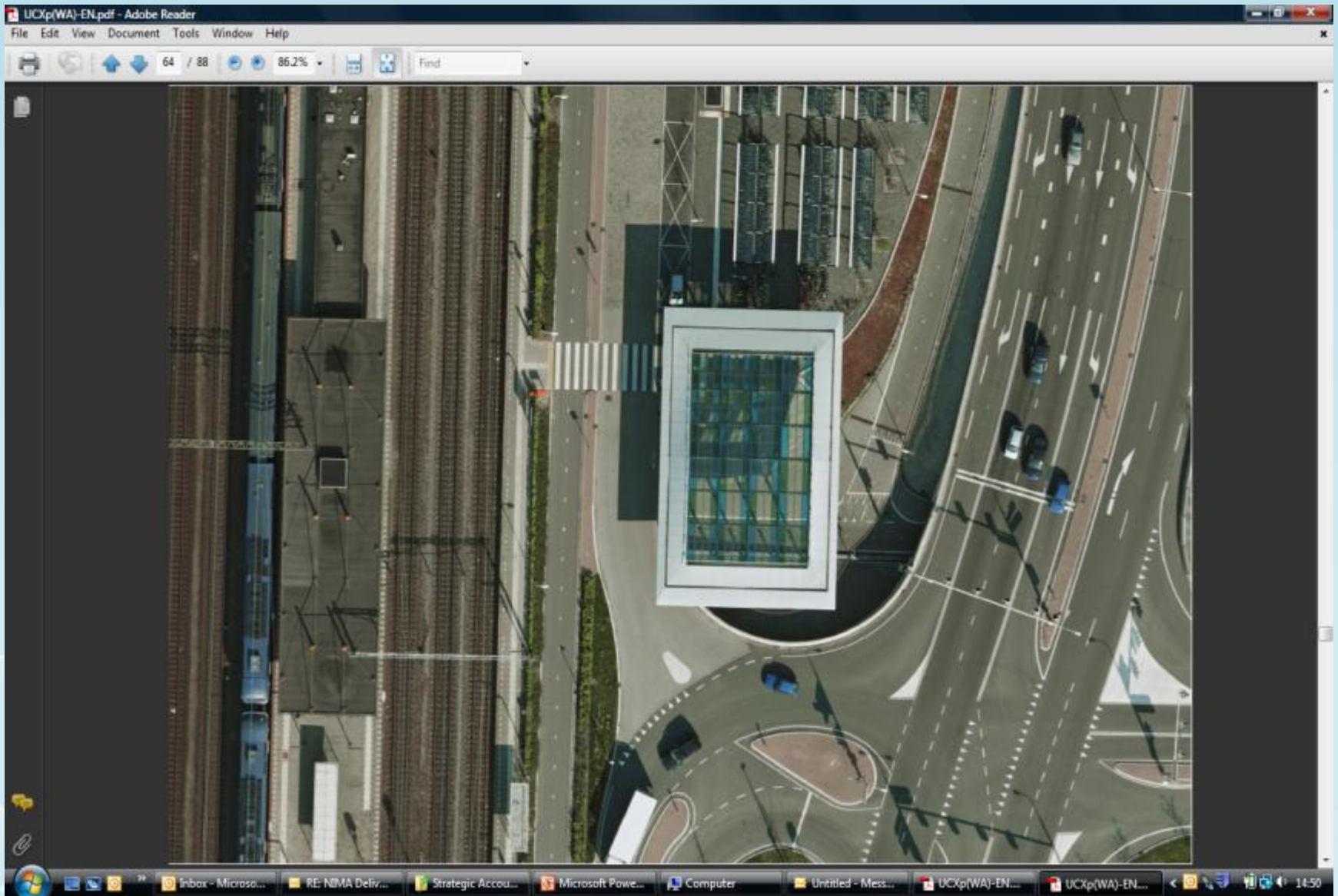
**Serious Solutions For Serious Mapping**

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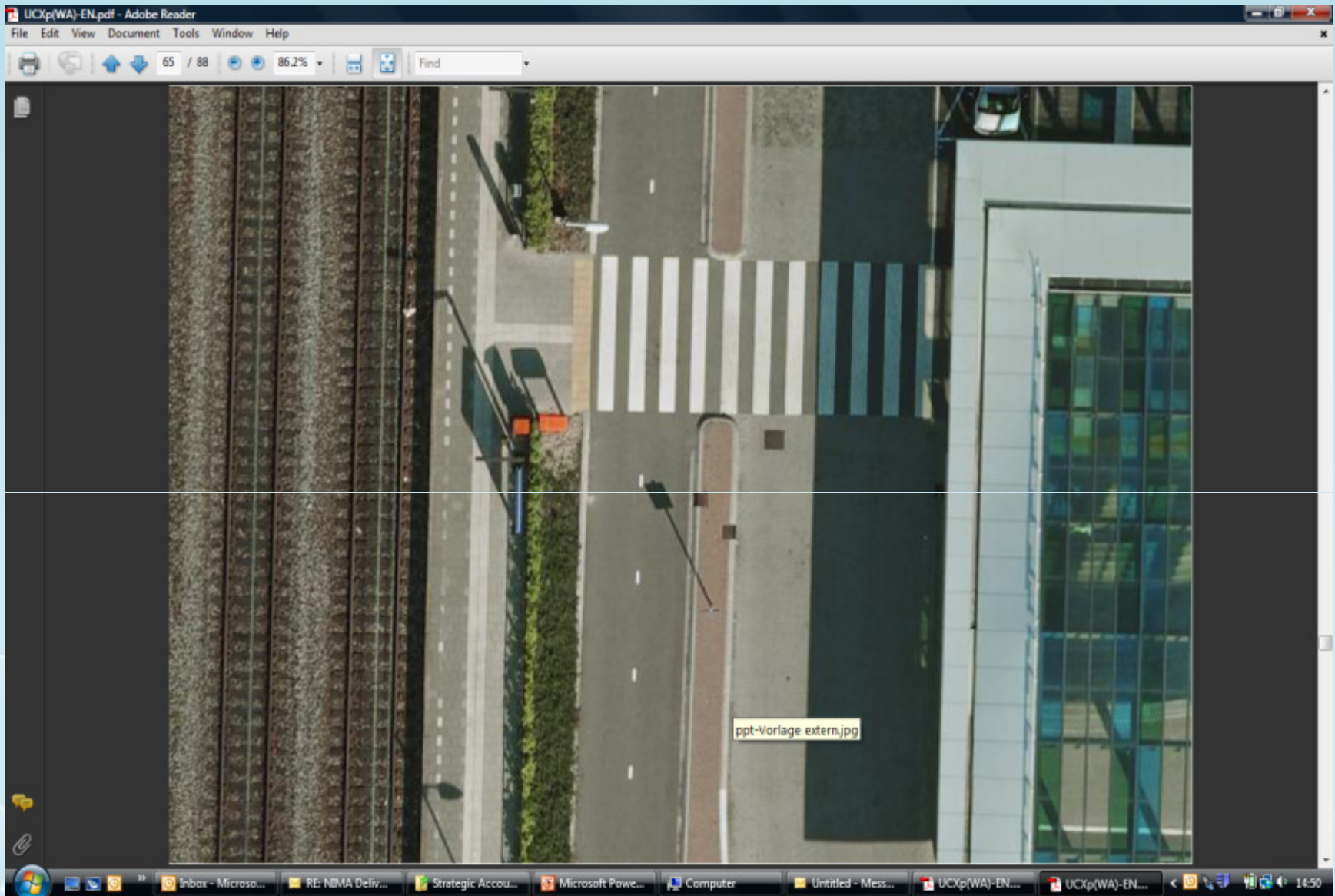
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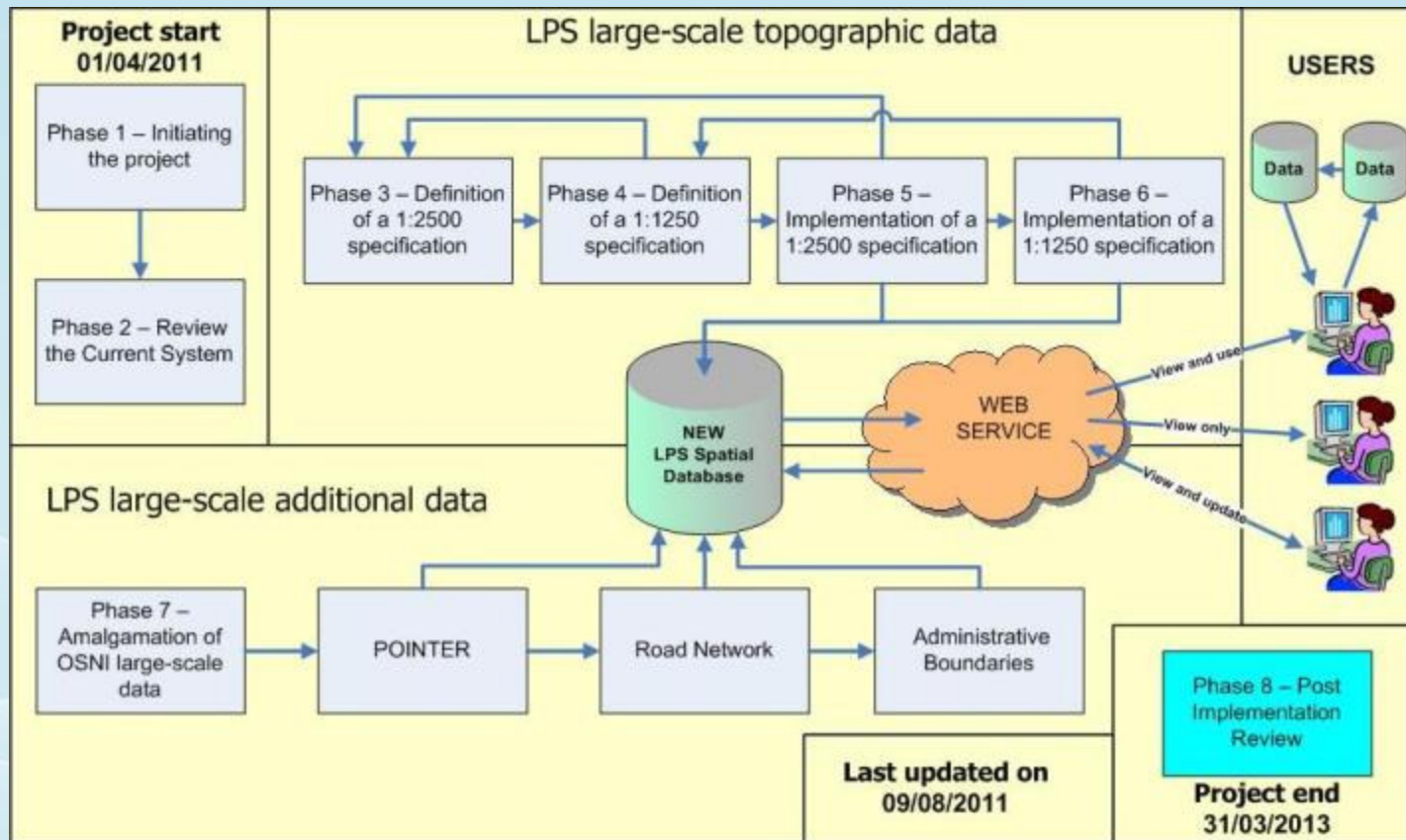
# L/S Mapping

- Review of what we capture
- New data structure planned
- Polygonisation
- Integrate with other LPS datasets
- Currency – buildings



# LPS Data Model

## Phase 2 – Review of the current system



# Phase 2 – Review of the current system

- Identify short and long term plans with regard to data collection;
- Identify short and long term plans with regard to database technology and storage;
- Review the field data collection technology and processes;
- Review photogrammetry data collection technology and processes;
- Define if a change to software or technology is required and agree funding;

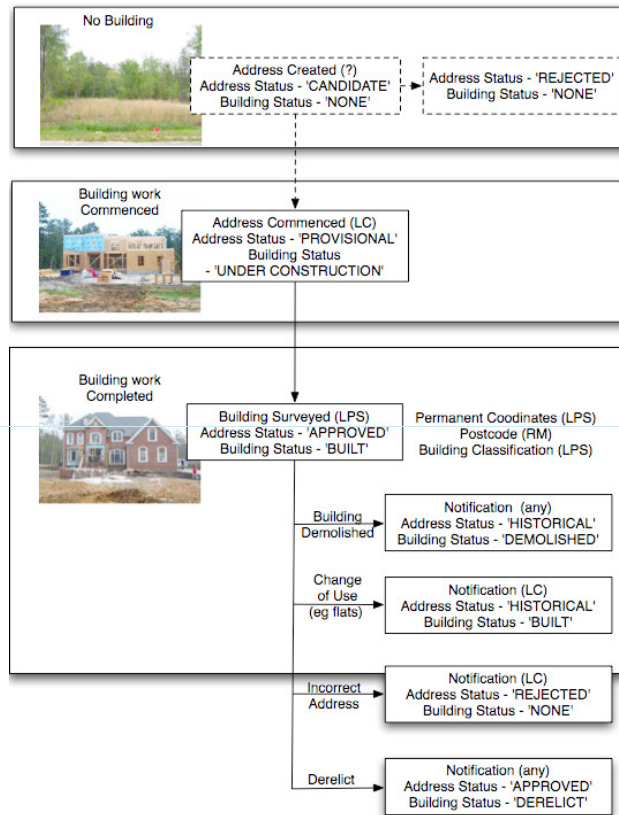


# Pointer Address Data

- Is it still the only true source?
- LPS presents opportunities to validate
- Back-office data maintenance



# Address Lifecycle



# Pointer 3.0

- Local Council Web Service – LIVE

Local Council Name	Type	Num of Records in DE
ANTRIM	New Address	81
ARDS	New Address	6
	Update Address	113
BALLYMENA	New Address	101
	Update Address	616
COLERAINE	New Address	11
	Update Address	10
MAGHERAFELT	New Address	32
	Update Address	1,231
MOYLE	New Address	160
	Update Address	845
<b>Grand Total</b>		<b>3,206</b>

- Data Exchange 2011/12

	Num of Records in DE		Num of Records in DE
	2011		
	APRIL	MAY	
Source			
Address Query	725	385	<b>1,110</b>
Local Council Web Service	1,470	1,736	<b>3,206</b>
MIDAS	781	277	<b>1,058</b>
<b>Grand Total</b>	<b>2,976</b>	<b>2,398</b>	<b>5,374</b>



# Land Parcel Information System

- Land Parcel Information System
- Capture field boundaries and ineligible areas
- Opportunity to link to core geography
- LPS will maintain the data going forward




# LPIS Improvement Project

- DARD in partnership with Land and Property Services (LPS) have created the LPIS Improvement Project.
- This project aims to correct weaknesses in the LPIS by systematically reviewing all agricultural parcels (fields) in NI to the standard required by legislation to;
- determine the Maximum Eligible Area (MEA) for each field,
- provide farmers with maps and other relevant information about their land,
- develop processes to keep that information current and sufficiently reliable.









**Area to be removed  
from field polygons  
below = 0.56 hectares**

# Positional Improvement (PI)

## What is Positional Improvement (PI)?

PI is the process of redressing positional inconsistencies between existing mapping and Global Navigation Satellite Systems (GNSS).

## Why is PI required?

Past OSNI data capturing techniques were correct relative to the surrounding elements, this gave it a relative accuracy. However modern techniques i.e. GNSS now provide absolute accuracy. The difference between the two is the margin for positional improvement.

## Benefits of PI for LPIS Project

1. Brings the DARD field boundaries in line with largescale mapping
2. Provides an up to date, accurate mapping product which can be used by farmers
3. Greater consistency in determining entitlements i.e. ineligibility
4. Minimise future risk to the Social Fund



# Land and **Property** Service

- **Reconcile** Valuation and Mapping data
- **Single view** of a property
- **Legacy systems** are difficult to change
- INSPIRE pushing us to deliver **linked** information



# Why INSPIRE?

Increasing number of environmental policies that have a strong spatial dimension

- Marine thematic strategy
- Thematic strategy on natural resources and on recycling
- New soil monitoring system
- Revision of SEVESO Directives on hazardous substances
- Proposal for Directive on control of pipelines
- Integrated Coastal Zone Management
- The revised forest monitoring regulation
- Noise Directive
- Water Framework Directive (2000/60/EC)
- European Action programme on flood risk management





[www.spatialni.gov.uk](http://www.spatialni.gov.uk)

- Contract awarded to ESRI
- Very aggressive timelines
- 9<sup>th</sup> November for Annex I Discovery and View Services
- Data will be Transformed to INSPIRE Specifications



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[www.spatialni.gov.uk](http://www.spatialni.gov.uk)

- MISSION STATEMENT (DRAFT)
- SpatialNI will result in the successful implementation of INSPIRE in Northern Ireland.
- It will meet the necessary requirements for the portal to link with the
- UK INSPIRE hub.
- It will meet all of the required specifications and assist in meeting the objectives of the NI GI Strategy.
- It will become the technical component (hardware and software) of the Northern Ireland Spatial Data Infrastructure

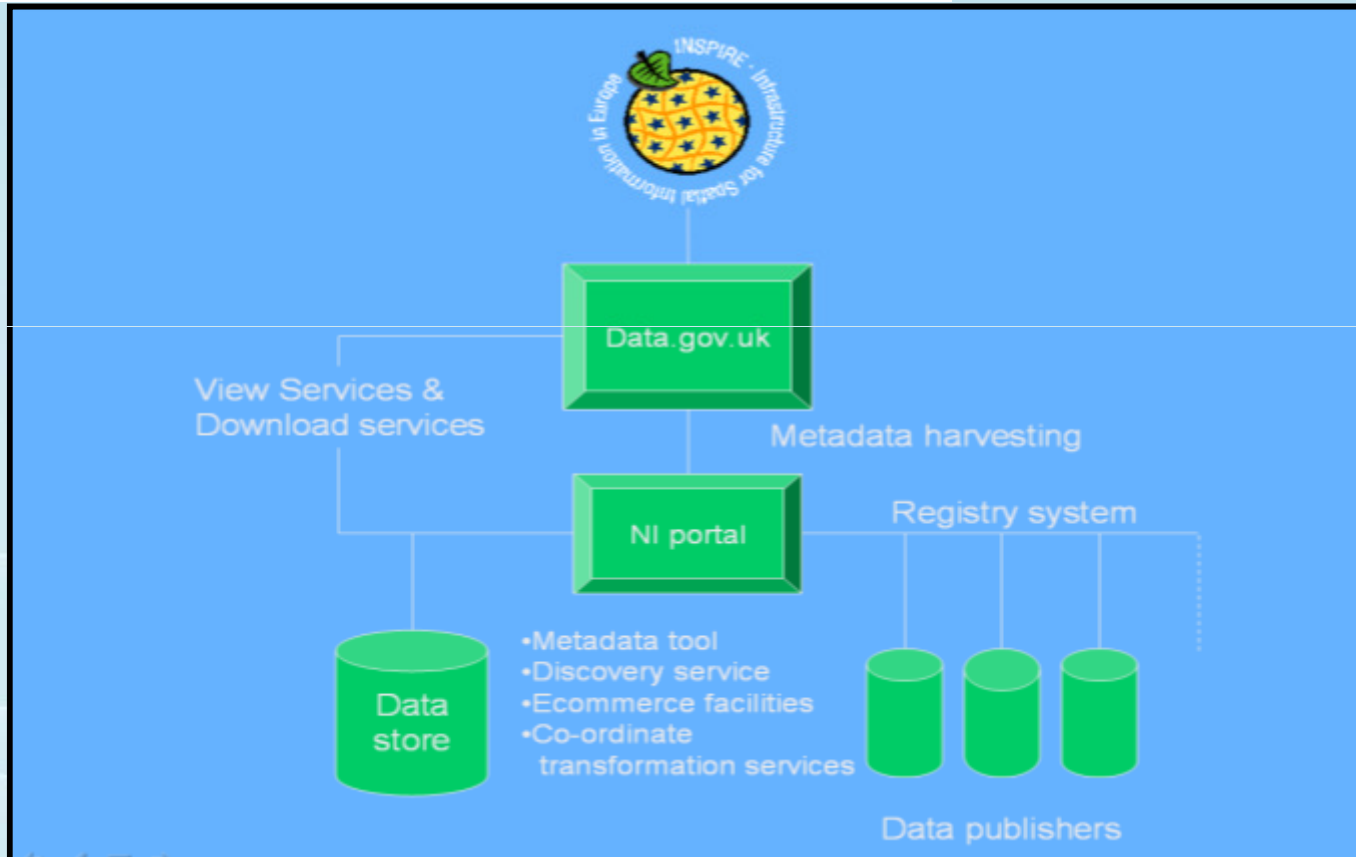


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# SPATIAL NI<sup>TM</sup>

[www.spatialni.gov.uk](http://www.spatialni.gov.uk)



How data publishers will publish to Spatial NITM.



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# UK Location data on data.gov.uk

19 October 2011	November 2011 target	December 2013	
<b>INSPIRE</b>			
Datasets	216 (92%)	236	1000+
Datasets with View services	131 (56%)	100%	100%
Organisations	29 (83%)	35	100+
<b>TOTAL</b>			
Datasets	935	1000+	3000+
Organisations	32	38+	100+
% of data.gov.uk datasets	12%	Likely to rise	Likely to rise



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Any Questions!

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