National mapping – funding the public good

Iain Greenway
Chief Executive
Ordnance Survey of Northern Ireland

What are mapping agencies for?

- Role of Government (Walter Smith)
  - To ensure order
  - To encourage material and other progress
    - Secure title underpins this (de Soto)
- This requires mapping that is
  - Up to date
  - Homogeneous
  - Continuous in spatial extent

How should the agencies be funded?

- Independent Economy Model
  - Role of Government is to ensure integrity of trades
  - And to interfere as little as possible!
  - So ensure that mapping exists (but not necessarily to produce it)
- Mixed Economy Model
  - Government manages the economy at a macro level
  - Take over provision of services that the market will not provide
  - Is national mapping cover such a service?

To charge or not to charge?

In favour of charging	Against charging
It establishes the 'real need' for the goods	Tax payers have already paid for the activity
It encourages private sector competition	The cost of collecting the money is large
It allows tax cuts [hardly an ideological argument!]	The benefits of widespread use of free data include higher corporate profits for value adders, leading to increased tax revenues
The multitude of tax payers shouldn't subsidise the smaller number of users	Citizens have a right to access to government data
Governments are more likely to stand elements of the cost if users pay for their share	
The quality of data produced is higher because it has to attract a price	

OSNI – mapping Northern Ireland

- 1820s – survey to underpin property taxation
- 1922 – creation of OSNI
- 1992 – an Executive Agency
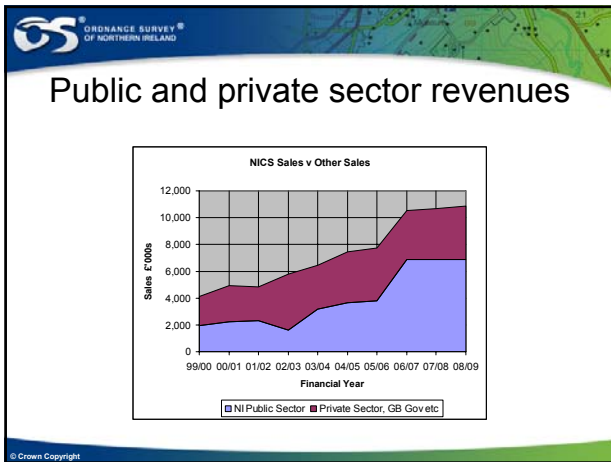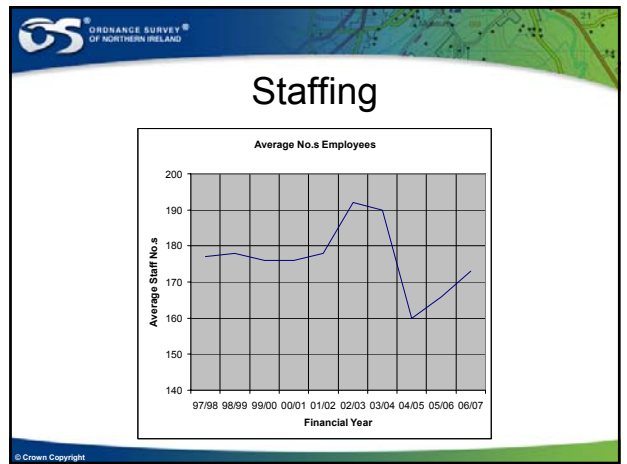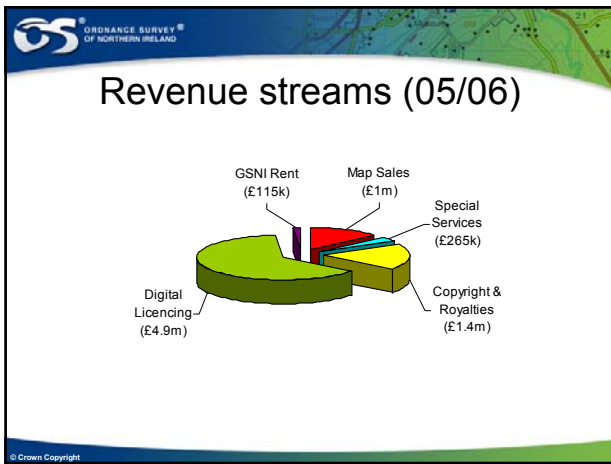- 1999 – move to Department of Culture, Arts and Leisure as part of devolution

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Overall financial performance

Revenue streams (05/06)

Staffing

Public and private sector revenues

Operational performance

- Improving quality
  - Responding to customer priorities
- Improving currency
  - 90% of clusters of 10 houses or more completed within 6 months of notification
  - Backlog at around 6 month level

Functionality

- Interactive Map Console
- Choose delivery method - Post (CD/DVD/Paper) and digital download
- Purchase digital data licence
- Pay (via credit/debit card)
- ACEmap® download (A4 PDF format)
- Receive licence renewal emails
- Further developments for account customers in 2007

Slide 1: Pointer

Pointer

- Definitive address file
- Collaborative – broad project board representation

Slide 2: Historic mapping

Historic mapping

- Scanning completed (6" and 25")
- In collaboration with Public Records Office
- Free to view/ pay to download via website

Slide 3: Central Agreement Portfolio

	Product Name	Notes
Digital Vector Mapping		
1	Large-scale	
2	1:50,000 scale	
4	OSNI RegionalMap	
5	OSNI GlobalMap	
6	Road Centre Line	Under development
7	Digital Soil Data	
8	SABE (Seamless Administrative Boundaries of Europe)	
Address Data		
9	Pointer Address	
10	Gazetteer of Placenames	
Raster Mapping		
11	1:10,000 scale (Monochrome & Colour)	
12	Outdoor Pursuits Series	
13	1:50,000 scale (Monochrome & Colour)	
14	1:250,000	
15	Parliamentary Constituency Maps	
16	Street Maps	
17	Historical Mapping	Under development
Geodetic Products		
18	Benchmarks	
19	Horizontal Control	
Orthophotography Products		
20	Orthophotography Products	
21	DTM Products	

Slide 4: Strategy Map 2007–2008

STRATEGY MAP 2007–2008

Customers and Stakeholders
- Add value to customers' business
- Consistently meet expectations
- Be easy to do business with

Organisational Learning and Growth
- Effectively manage change
- Develop our knowledge and skill base
- Fully meet corporate and community obligations
- Encourage everyone to make a difference

OSNI Mission
To place OSNI data at the heart of a vibrant Northern Ireland

OSNI Vision
To be widely recognised as leaders in collecting, managing, combining and promoting the use of spatial data to benefit the citizens of Northern Ireland

Processes
- Develop and maintain high quality spatial data
- Build partnerships
- Deliver effective data management
- Optimise business processes

Finance
- Continue financial self sustainability
- Secure appropriate funding mechanisms
- Diversify revenue base

Slide 5: Key published targets 2007-08

Key published targets 2007-08

- 60% of centrally funded customers with OSNI data available in an end user solution
- 92% of map update requests for 10 units or more completed within 6 months of receipt
- 97% currency of residential properties
- 90% of large scale map tiles passed through a structured quality assurance process
- A specification for a core data model for LPS, and an outline business case to proceed with its implementation, agreed
- 10 Mosaic key stakeholders contributing data to, or using, the GeoHub

Slide 6: Mosaic

mosaic
information on location

Slide 1

geographic Information

A Geographic Information Strategy for Northern Ireland

A Consultation Document

mosaic

Slide 2

MOSAIC Vision

- Every Public Servant can access the appropriate (geographic) information in order to facilitate policy development and evaluation, administration and service delivery, at the desktop, in a seamless way

- The public can view Government-held information in easy to understand ways

Slide 3

mosaic 4 Utilities

RIDGEWAY STREET · RIDGEWAY STR

Coby House
(Sub Office)

STRANMILLIS COURT

Layer Manager

Layer Name
Annotations
NTL Joint Box
NTL Duct
NTL Cabinet
HV 6.6KV Pole
HV 275KV
HV 33KV Tower
HV 110KV Pole
HV 110KV
HV 33KV Pole
MV Poles
HV 15KV Pole
UDB
Filter
Pole Mounted Substation
HV 275KV
HV 110KV
HV 33KV

Slide 4

Mosaic in Government

"Common NICS Infrastructure Programme' (CNIP)

A WORLD CLASS INFRASTRUCTURE FOR PUBLIC SERVICES

Slide 5

Mosaic Programme Structure

Oversight Board

DCAL (GI Policy)

UK GI Panel (INSPIRE etc)

OSNI CEO (Chair)

Steering Group

Programme Office

Local Authorities

SOLACE

Key Datasets

Pointer PB

AGI (NI)

Industry

Sectoral Representatives

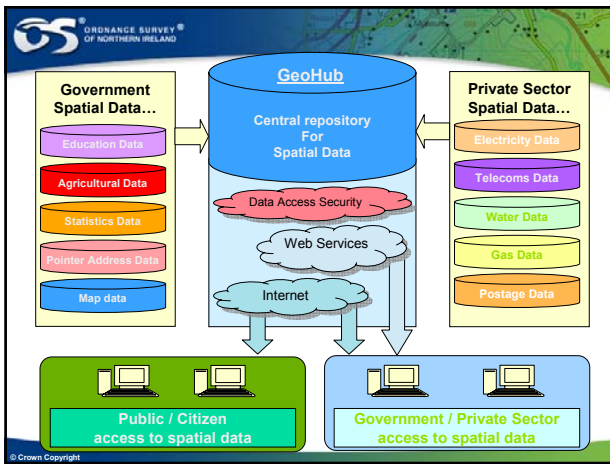|	
Built Environment	David Rainey
Infrastructure	Dr Conor Smyth
Natural Environment	Paul Gurnaghan
Public Safety & Emergency Services	Robin Bigger
Statistics	Robert Beatty
Sustainable Communities	David McCammick
Utilities & Networks	Gary Osborne

Slide 6

GeoHub – the technical infrastructure

- Data store
- Map viewer
- Save and print maps
- Query & analysis tools
  - Show me all schools within x miles of my location
  - Combine census, planning and school locations/ catchments to show predicted pupil numbers by school

- Prototype – Mar 2007; Go Live – Nov 2007

Slide 1

ORDNANCE SURVEY OF NORTHERN IRELAND

- Government Spatial Data…
  - Education Data
  - Agricultural Data
  - Statistics Data
  - Pointer Address Data
  - Map data
- GeoHub
  - Central repository For Spatial Data
  - Data Access Security
  - Web Services
  - Internet
- Private Sector Spatial Data…
  - Electricity Data
  - Telecoms Data
  - Water Data
  - Gas Data
  - Postage Data
- Public / Citizen access to spatial data
- Government / Private Sector access to spatial data
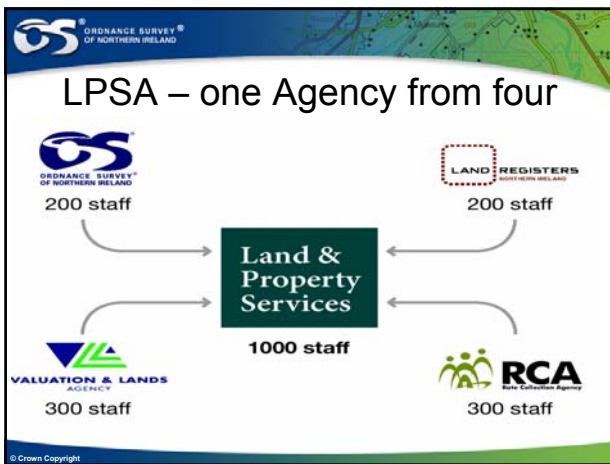
Slide 2

ORDNANCE SURVEY OF NORTHERN IRELAND

Sustainability

- How to embed the necessary skills
  - generally a small unit of specialists
  - often in unconnected pockets
- But answering the question 'where':
  - 80% of public data is place-related
  - remarkably powerful tool for effective policy development and service delivery
  - this requires use as a corporate resource

Slide 3

ORDNANCE SURVEY OF NORTHERN IRELAND

LPSA – one Agency from four

ORDNANCE SURVEY OF NORTHERN IRELAND
200 staff

LAND REGISTERS NORTHERN IRELAND
200 staff

Land & Property Services
1000 staff

VALUATION & LANDS AGENCY
300 staff

RCA Rate Collection Agency
300 staff

Slide 4

ORDNANCE SURVEY OF NORTHERN IRELAND

The benefits

- Reduced duplication
  - Shared services
  - Technical matters
  - Building Control links
- 'One stop shop'
- Central place in NI
  - £1 billion of revenue (65% of LA revenue)
  - GI at the heart of the organisation

Slide 5

ORDNANCE SURVEY OF NORTHERN IRELAND

LPS vision

Vision

Transforming land & property services and information for the public good

Slide 6

ORDNANCE SURVEY OF NORTHERN IRELAND

LPS mission

Mission

To deliver the integrated mapping, registration, valuation and rating services essential for Northern Ireland

Conclusions

- OSNI is a successful mapping agency
- 'User pays' enables multi-year financial security
- This allows the organisation to concentrate further on its public good role
- The NI GI strategy is gaining real influence at the highest level

- Revenue generation is therefore a means to an end – of supporting Government objectives