HIGH LEVEL FORUM ON GLOBAL GEOSPATIAL MANAGEMENT INFORMATION

WORKING PAPER No. 24

First Forum Seoul, Republic of Korea, 24-26 October 2011

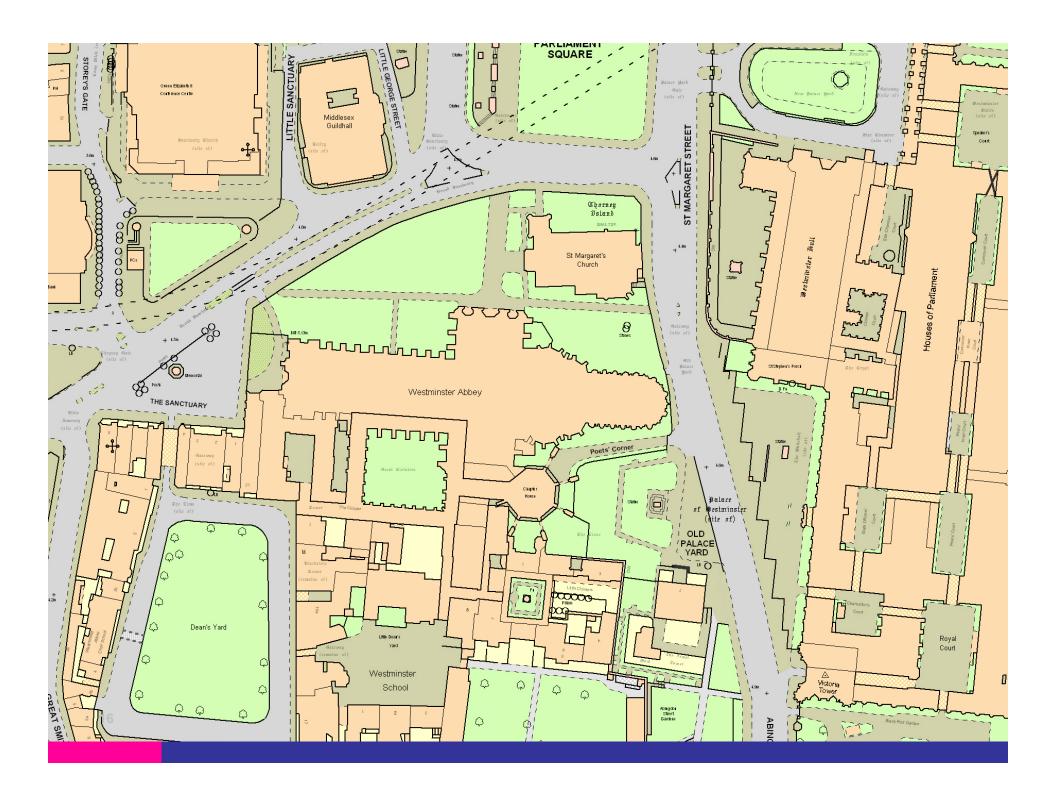
Capacity Building and Knowledge Transfer: some thoughts for the future *

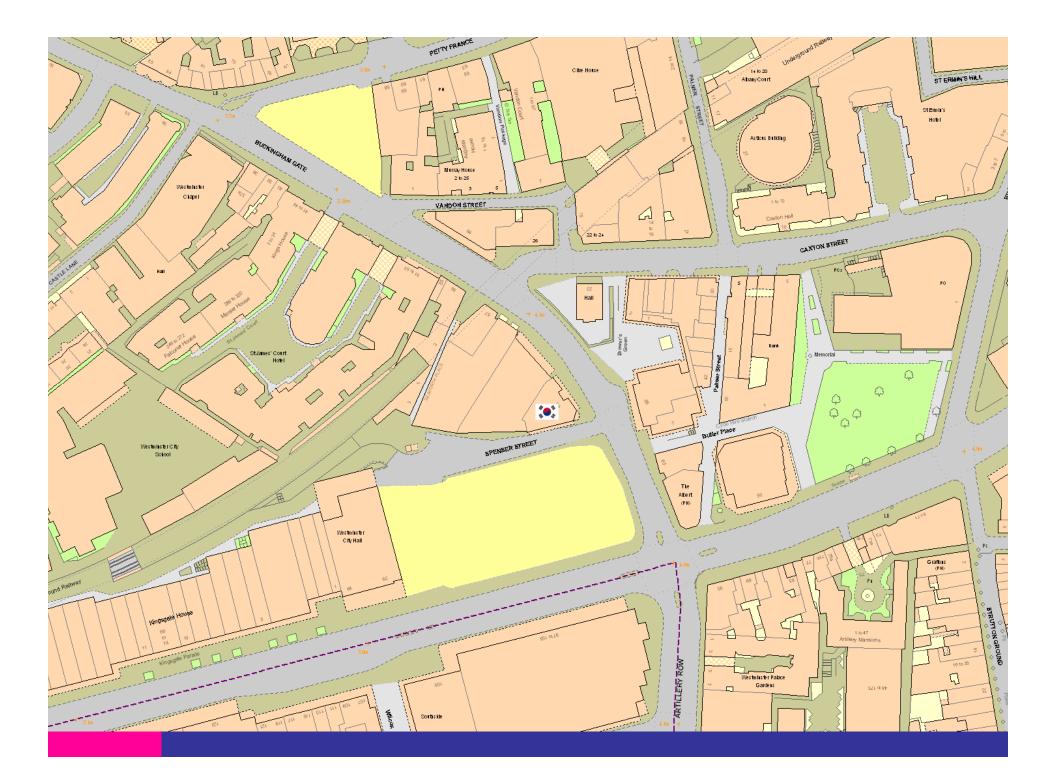
Submitted by: Ms. Vanessa Lawrence CB, Director General and Chief Executive, Ordnance Survey, United Kingdom



Capacity Building and Knowledge Transfer: some thoughts for the future

Dr Vanessa Lawrence CB
Director General and Chief Executive





Ordnance Survey Great Britain

- Independent Government Department and Executive Agency reporting directly to a Government Minister
- Trading Fund since April 1999; investment over £20m/annum
- Annual Report for 2010/11: Revenue of £129.4m, profit before exceptional items of £24.1m, dividend £6.3m
- 'Ordnance Survey and its Partners will be the content providers of choice for location based information in the new information economy'
- 500 Partners; over £30m income for Ordnance Survey; £350-400m new revenues to British economy
- Mapping from Ordnance Survey underpins over £100bn of the British economy each year









Many stakeholders shaping our decisions





































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The importance of location recognised politically

White House Memo, August 2009:

"Various federal programs can function more effectively if they include well-focused, place-based strategies"

From: Peter R. Orszag, Office of Management and Budget Melody Barnes, Domestic Policy Council Adolfo Carrion, Office of Urban Affairs Lawrence Summers, National Economic Council

Herman van Rompuy, President of the European Council, October 2010: "Effective policy depends on good information...it is vital to understand not just what is happening, but also where it is happening".

Sir Tim Berners-Lee, April 2010:

"Whatever sort of data you find, crime data, health data, it's got location in it... when you look at different sorts of data the first thing people naturally do is stick it on a map... a map makes contact with the way they think."

The importance of location recognised politically

"...geospatial technology is a tool for empowering India"

Science and Technology Minister Kapil Sibal, Dec 2010

"With Hyderabad and Andhra Pradesh having contributed a great deal to IT revolution, we now need to think of a geospatial revolution. Geospatial is a technology that permeates into all fields and helps them to work more profitably"

M Shashidhar Reddy, vice-chairman of the National Disaster Management Authority, Jan 2011

India's first Geospatial Technology Park announced

The Indian response to the political attention



- Survey of India currently embarking on the creation of a National Topographic Database at 1:10k scale for all rural areas of the country; 1:2,000 scale for 800 of the country's cities; and 1:1,000 for its metro cities, due to be completed within the next three years.
- Detailed GI sought as it enables comfortable depiction of buildings like hospitals, schools, police stations, post offices etc, important for a wide range of sectors including Defence, Disaster Management and many others; and supports assessing areas essential for rural development such as natural resource endowments, agricultural practices, grazing lands and village forests.

The Indian response to the political attention

Govt to bring in geospatial data Bill in Budget session, says Sibal

Regulator to oversee licensing of geospatial information

Our Bureau

Hyderabad, Jan. 18

Geospatial sector in India is expected to get a shot in the arm next month with the Union Government hoping to introduce and pass the National Geospatial Data Authority Bill in the Budget session.

"It is being discussed in inter-ministerial meetings. We expect that it will be introduced in the Budget session." Mr Kapil Sibal, Minister for Science and Technology, Human Resources Development and IT and Telecom, said.

The geospatial sector in the country has been growing with the entry of private and international companies utilising data generated from space-based platforms like remote sensing and near-carth orbiting satellites about various features of natural resources and developing geo-



Mr Kapil Sibal, Minister for HRD, Science and Technology. Earth Science, Communications and Information Technology, at the Geospatial World Forum meeting in Hyderabad on Tuesday. Also seen are (from left) Dr K. Kasturirangan, MP and Member of Planning Commission; Dr M. P. Narayanan, Chairman, GIS Development; and Dr R. Siyakumar, CEO, National Spatial Data Infrastructure. – P.V. Siyakumar

12th Five-Year Plan should use geospatial technology in planning.

He said a National GIS System was being developed to synergise geospatial data and create a system to access the same.

A task force would look into the capacity requirement for the industry and evolve a geospatial culture in the country.

The task force was expected to submit its report in a month.

AWARDS

Mr Sibal presented awards to natural Resources Canada (category - Premier mapping Agency); Ms Vanessa Lawrence CB, Director-General and Chief Executive of United Kingdom's Ordnance Survey (Geospatial personality of Decade); Rolta group (World Leaders in Geospatial

Why leaders are needed

- Provide vision
- Create a collective effort to achieve desired outcomes
- Develop conditions that enable people to achieve
- Inspire performance out of people
- Foster a growth environment which breeds success





Federal Government, State/Territory Governments, Peak Government Committees and Associations, Academia and Industry Associations



Leadership in Australia – a 10 month journey



Drew Clarke PMS, Secretary, Department of Resources, Energy and Tourism and formally a Surveyor in Australia and Antarctica

Leadership in Australia – a 10 month journey





The Location Strategy

Published 25th November 2008

www.communities.gov.uk /publications/communities /locationstrategy



Place matters: the Location Strategy for the United Kingdom

November 2008





Place Matters: the Location Strategy for the United Kingdom

The Ministerial Committee on Domestic Affairs took responsibility for agreeing the UK Location Strategy

The Committee comprises:

- Minister for the Cabinet Office; and Chancellor of the Duchy of Lancaster (Chair)
- Secretary of State for Justice and Lord Chancellor
- Secretary of State for the Home Department
- Secretary of State for Health
- Secretary of State for Environment, Food and Rural Affairs
- Secretary of State for Business, Enterprise and Regulatory Reform
- Secretary of State for Work and Pensions
- Secretary of State for Transport
- Secretary of State for Communities and Local Government
- Secretary of State for Children, Schools and Families
- Secretary of State for Culture, Media and Sport
- Chief Secretary to the Treasury
- Secretary of State for Innovation, Universities and Skills
- Attorney General
- Parliamentary Secretary, Cabinet Office

Members of the Location Council

- Tim Allen, Programme Director Research and Knowledge Management, LGA
- Ray Boguslawski, Deputy Director, Business Solutions
- Brian Collins, Chief Scientific Advisor, Department for Transport & BERR
- Peter Collis CB, Chief Land Registrar, Land Registry
- Jos Creese, Head of IT, Hampshire County Council
- Belinda Crowe, Information Director, Ministry of Justice
- Karen Dunnell, National Statistician, Office for National Statistics
- Steve Erskine, Director Integrated Service Management, Home Office
- Grant Fitzner, Chief Economist and Director of Analytical Services, Department for Communities and Local Government
- David Frazer, Director of Information, DWP
- Iain Greenway, Chief Survey Officer, Land & Property Services Northern Ireland
- Michael Harrington, Group Director of Corporate Information and Services Division (CISD), Welsh Assembly Government
- Vanessa Lawrence CB, Director General and Chief Executive, Ordnance Survey
- Jamie McMichael-Phillips, Head of Joint Geospatial Information Branch, Defence Intelligence Staff, Ministry of Defence
- James Meldrum, Keeper, Registers of Scotland
- Miles Parker, Director of Science, Defra (Chair)
- Andrew Sutherland, Acting Director of Operations, The NHS Information Centre for Health and Social Care
- Andrew Stott, Deputy Government Chief Information Officer
- Carol Tullo, Director, Controller and Queen's Printer
- Stefan Carlyle, Programme Director, UK SDI Programme
- Keith Murray, Technical Director, UK SDI Programme

'everything happens somewhere'

- 'In almost everything, people need to know when and where things happen: place matters.'
- 'The Location Strategy for the United Kingdom is a throughtful, authoritative and important document and its recommendations are closely aligned to the delivery of government policy in many areas. Ministerial colleagues share with me in recognising the reality, identified by the Strategy that 'everything happens somewhere'.

Baroness Andrews, Parliamentary, Under Secretary of State, Department for Communities and Local Government.

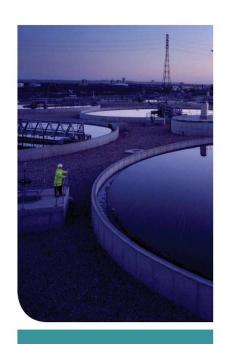


and Local Government

Northumbrian Water Limited – investing in GI

The return on investment is real and demonstrable and includes:

- Additional income alone of well over £1m through improved management of empty properties.
- A sustainable cut of at least £60,000 in operating costs through the call centre solveat-source principle.
- Significant savings in time and cost in the provision of timely and accurate asset information to field technicians.



'From the customers' point of view and from the business point of view, GIS has been of great benefit and our investment has been well worth it'.

lan Donald, Customer Services Director concludes:



Council improves school transport services

- East Riding Council used OS MasterMap Integrated Transport Network (ITN) data
- East Riding Council saved £160,000 annually by improving school bus services for just two secondary schools





Leaders reflect the team culture

Ordnance Survey - the 20th century organisation:



- Paternalistic characterised by:
 - expectation that the organisation would provide
 - 'entitlement culture'
 - sense of orderliness
 - caring paternalism
 - security for employees
 - slow moving



Changing our working culture

- Promoting cultural change a recognition that our current culture would not serve us for the future:
- In order to meet and exceed the ever growing demand of our customers we had to change the way we worked
 - Culture of entitlement and lack of pace to be replaced with one of quick decision making and agility
 - In order to deliver on our promises we had to evolve a new working culture...



Project Platinum

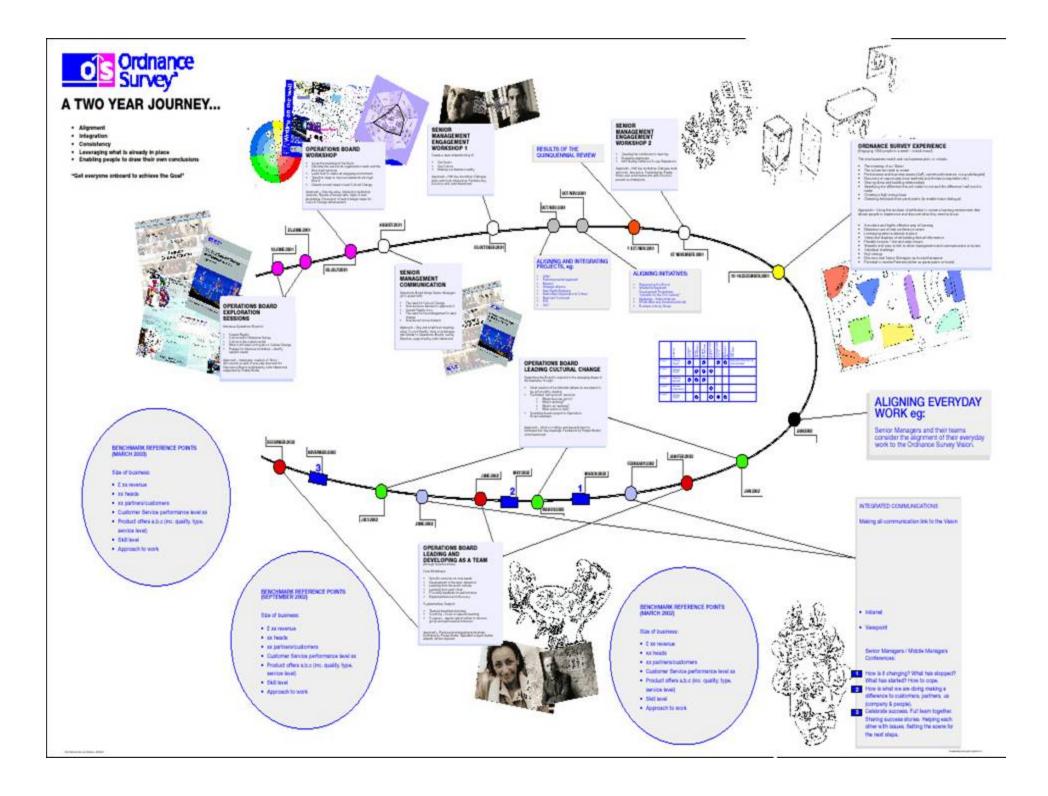
A Two Year Journey

Challenging our...



Values
Beliefs
Traditions
'Norms'
Attitudes
Priorities





'The Ordnance Survey Experience'

- An intensive set of interactive activities in which virtually all staff participated
- Aim to create a shared understanding of Ordnance Survey's Vision
- The activities were designed to help staff connect with the Vision
 - based on dialogue and personal challenge
 - catered for different learning styles
 - led by the board and senior managers
 - wide opportunities for feedback
 - enabled staff to draw their own conclusions







'The Customer Experience'

A six month journey towards becoming a fully - customer-led business

Setting an **individual challenge** to make a difference

From Products to Relationships

Led by our people: Action Room and Sharefair



What 'Your Say' told us:

- Indicated our major success has been that our people understand The Vision and what they have to deliver to contribute towards it (90%)
- We recognise why it is important to focus on improving our customer Service (99%)
- People are asking for further support and tools to help them to do a good job (55%)
- The Difference between the 'What' and the 'How'

I understand how what we are investing in now will impact on how we do things in the future

I understand why it is important for us all to focus on improving our customer service

> I clearly understand how what I do contributes to Ordnance Survey achieving its aims

My manager helps me to identify the areas where I need to learn new things

> I am recognised when I do good work

I understand what Ordnance Survey is trying to achieve

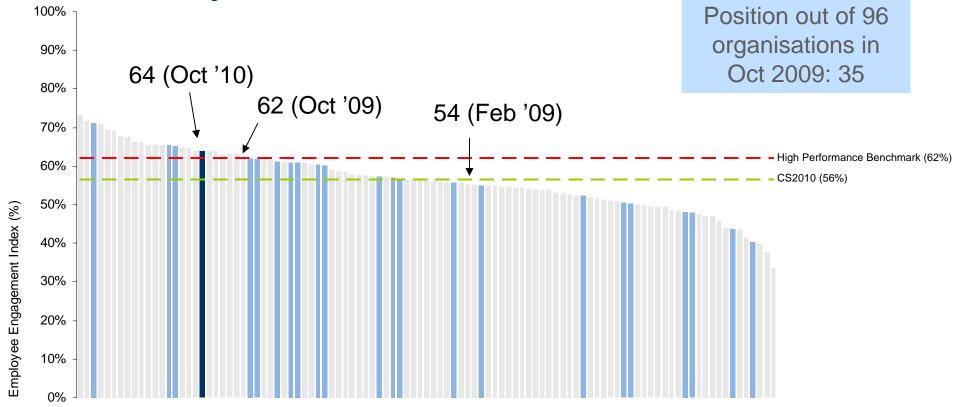
> I am clear about what I am expected to deliver

Ordnance Survey engagement results 2009-10

- Each bar in the chart below represents an organisation
- Ordnance Survey is indicated by the dark blue bar
- Mid blue bars represent other organisations with 1,000 2,499 employees

• The Executive Agencies EEI is 56%





Leaders reflect the team culture

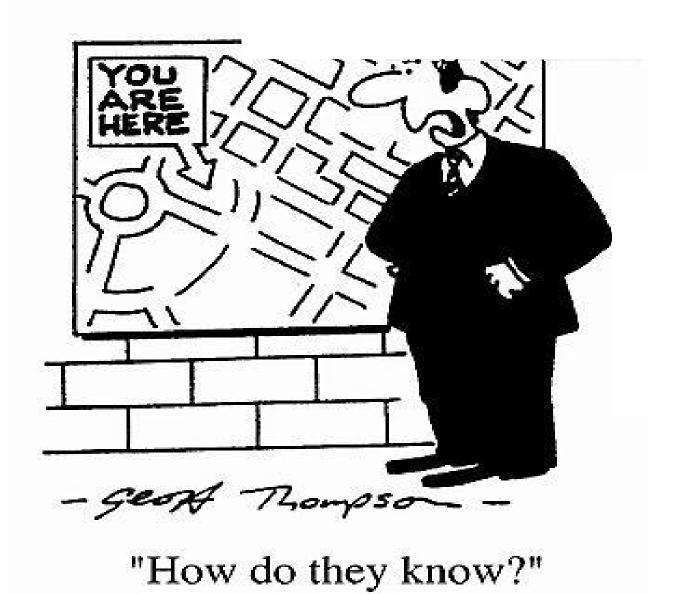
Ordnance Survey - the 21st Century organisation:

- performance culture based on outcomes
- creating high performing teams
- ideas culture
- accountability
- provide opportunities and set challenges
- fail fast and celebrate successes
- accelerating the tempo of many activities





We aim to guarantee employability not employment for staff





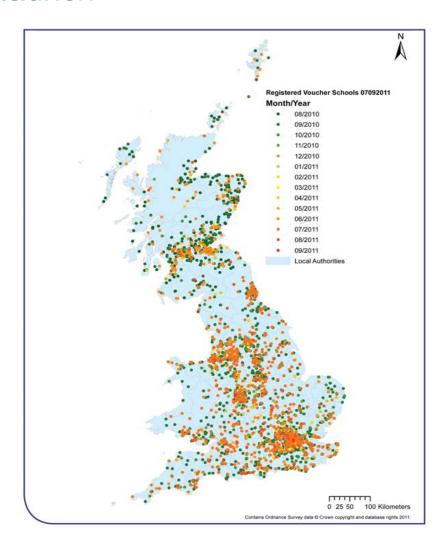
Over 6 million free maps 2002 - 2011



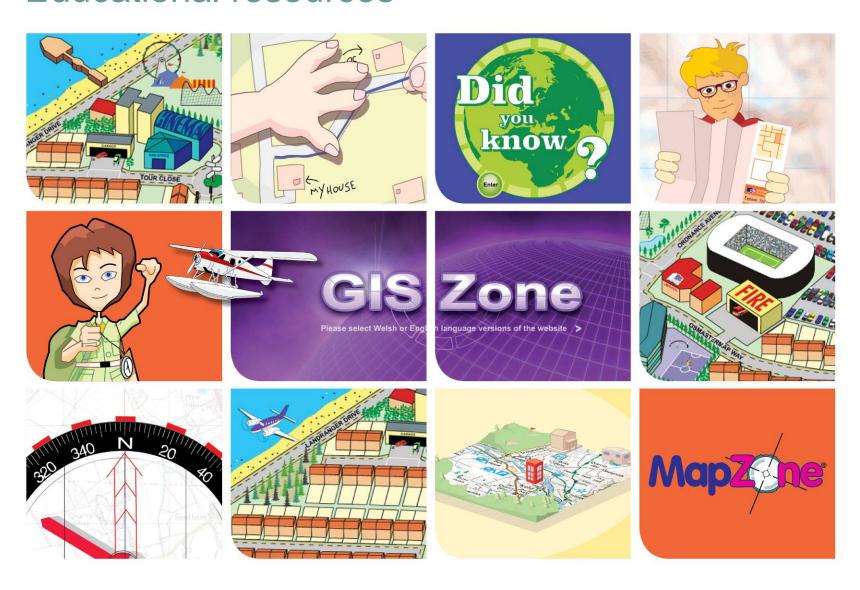
Digimaps for Schools



Distribution of registered Digimap for Schools...four months after launch



Educational resources



Data supply to Further Education and universities – Digimap Ordnance Survey collection

 Collaboration with EDINA at University of Edinburgh, JISC Collections which is part of the UK Higher and Further Education funding councils









Digimap Ordnance Survey collection

- Started in 2000 158,000 registered users since
- Thriving service used by many academic disciplines
- Subscription but free at point of use
- Supplies 106 HE and 44 FE Colleges
- Currently more than 47,000 active users
- Recognised internationally as world leading



Expansion of Digimap service – platform for a number of GI agencies

Service has grown to include

- Historic Digimap
- Geology Digimap
- Marine Digimap







CC: The Exchange 2005

- A challenge was issued Mr Jean Dotse, Director of Surveys, Ghana
 - NMOs from Developed countries should take ownership of the issue of support for the NMOs of Developing countries.
 - Sustainability and funding debate will be raised by GSDI and at the Joint Board of Geospatial Information Sciences





National Mapping Organisations – John Dhotse's four levels

- NMO in developed world at the leading edge of using technology
- NMO in developed world who follow the leading edge
- NMO in developing world who have funds to develop systems
- NMO in developing world where there are continuously no funds or very few funds

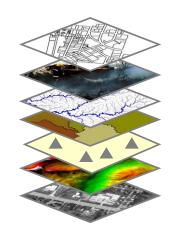




Moving forward – optimising support

Development of a knowledge bank

 Providing a knowledge framework for common access. It would contain fundamental documents so that relearning does not have to take place from ground zero. They would be practical papers not academic papers.





Geographic Information

Knowledge Portal



Deposit Spatial Documents
Find Spatial Documents
Mapping Agency Central
SDI Survey Responses
Quarterly Global Survey
Best Geo Web Resources
About this Portal
Site Search
Login Username Password Forgot your username/password?

New user? Register for an

account

GI Community Registry

Geographic Information Community Registry

Put yourself and your organization on the global map!

Deposit Spatial Documents

Contribute your works that address spatial data infrastructure and geographic information development concepts to an open access depository.

Find Spatial Documents

Search the spatial docs depot or explore links to best papers, best practices, and other geospatial document collections.

Mapping Agency Central

Explore the national mapping agency contact list, the status of national mapping agency spatial data infrastructure programs, the mapping agency discussion forum, equipment exchange and human resource exchange.

Spatial Data Infrastructure Survey Responses

See survey responses from across the globe on the status of national, subregional and local spatial data infrastructure developments.

Quarterly Global Survey

Express your opinion in this quarterly one question survey. Accumulated responses are posted at the end of each quarter.

Best Geo Web Resources

View link collections to geospatial journals, newsletters, news lists, conference announcements, blogs, map mashups and geospatial organizations.

The Geographic Information Knowledge P ortal is supported by: GSDI Association, ... (& any other supporting geospatial organizations). These organizations encourage their members to contribute to this geospatial community resource. You are encouraged to join any or all of these organizations to help support this service and many related efforts.

go

National Mapping Agencies in Africa

AGIRN

Directory of agencies | Knowledge and resources | Available expertise | Available equipment | Links

Home

Features



Mapping conference set to expand horizons in a shrinking world

Senior representatives and leaders from mapping and cadastral organisations across the world are set to meet in Cambridge, England, during July.

The Cambridge Conference - hosted by Britain's Ordnance Survey - is a unique occasion, giving

top experts the chance to discuss mapping and land management issues of global importance. Held every four years, it includes exhibitions, speeches, debates...

What's new

View more

Mapping the Maasai

Impacts of Industrial Logging in Central Africa Studied

About us

Who we are and what we do About our role in national mapping in Africa







Geographic Information Knowledge Network



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For more information, email GIKnetwork@gsdi.org

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Geographic Information Knowledge Network



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Spatial Data Infrastructure Implementation Experiences

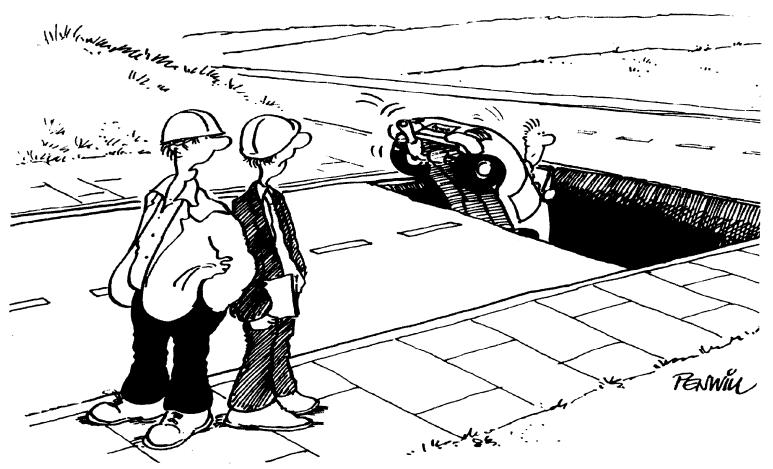
- ▼ nation (political level 1)
 - Bahrain Spatial Data Infrastructure (BSDI)
- ▼ province/state/region (political level 2)
 - MyProvince SDI
- ▼ Other
 - UK Location Strategy and Programme
 - TestProgram

For more information, email GIKnetwork@gsdi.org

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UN-GGIM going forward

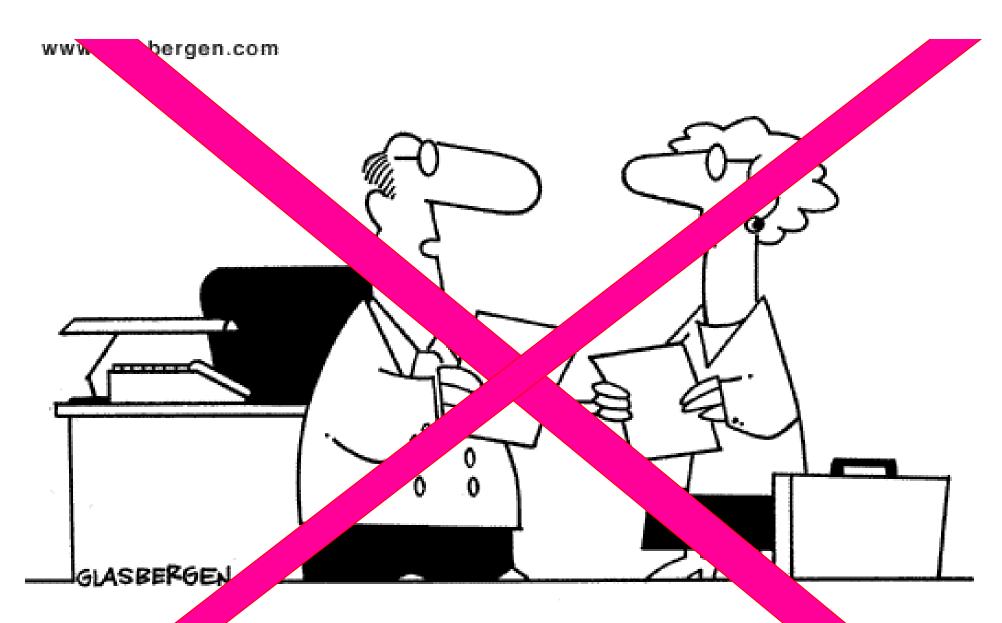


"I GUESS MAP CLEAN-UP SHOULD HAVE BEEN DONE BEFORE WE BUILT THE ROAD"

UN-GGIM going forward: our needs

- Senior leadership to influence the most senior members of governments and influencers around the world
- A road map against which to measure performance
- Materials to assist 'each and everyone of us' to grow our organisations both technically and culturally
- Materials to influence 'others' of the importance of place in their world
- Materials to assist the youth of our countries to understand that 'accurate current authoritative place-based information underpins their world'





Let's am a committee, to create a task force along a team, to meet at sometime to make a aecision!