

Spatial NI

Strategy 2015-20



Land &
Property
Services®

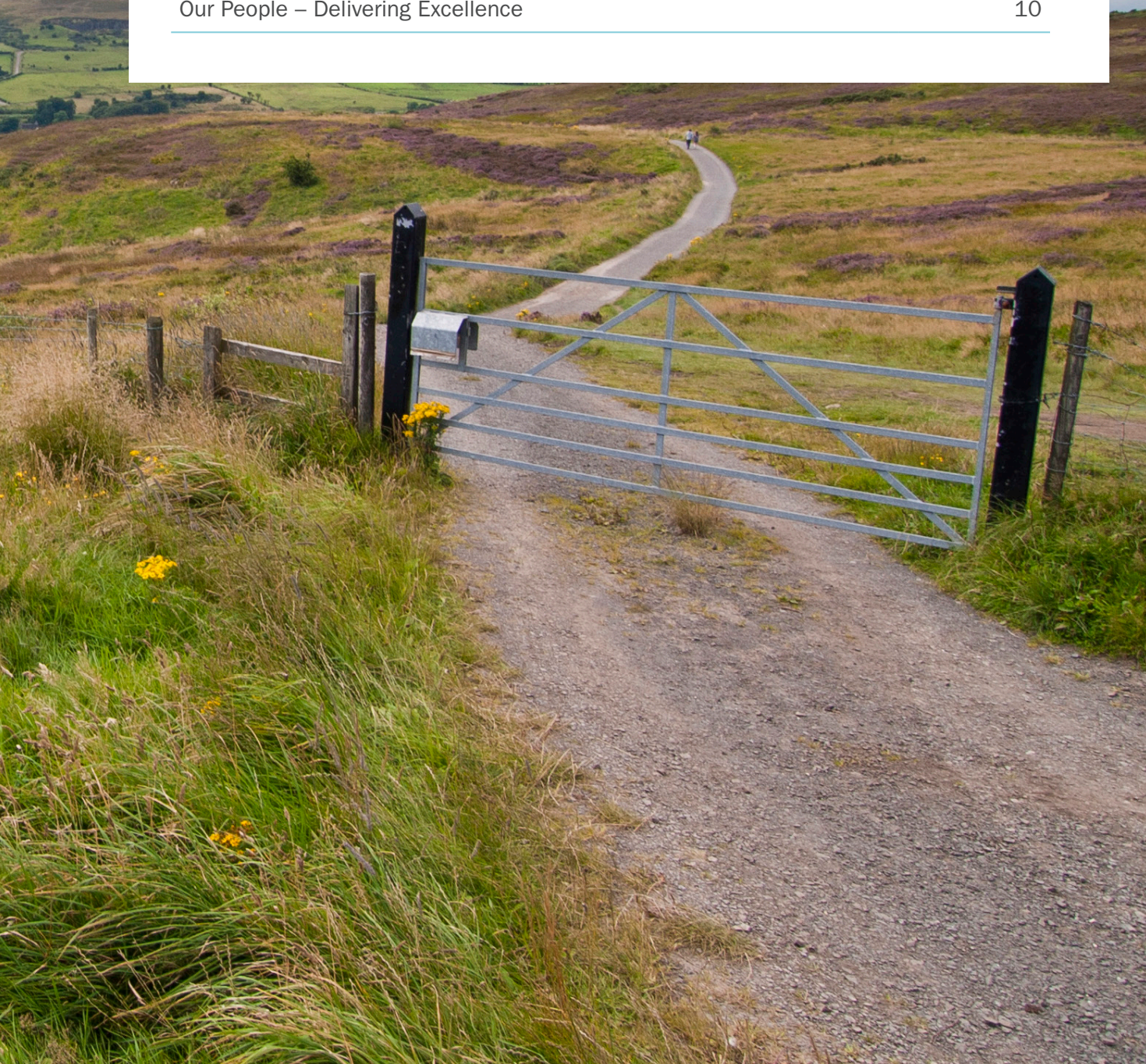


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Introduction



Spatial NI was created in 2007 from the need to comply with the European Infrastructure for Spatial Information in Europe (INSPIRE) directive. INSPIRE's primary aim was to establish the infrastructure in order to support Community environmental policies, and policies or activities which have an impact on the environment.

The current system was upgraded in 2013 and as the INSPIRE Directive targets were being successfully delivered, many more benefits of the system began to emerge meaning that Spatial NI has been developed far beyond its original intended use.

The system was introduced just as customers began to expect mapping services to be delivered online. This undoubtedly was related to the growth of 'Google Maps' that now boasts over a billion searches across the world every day.

This strategy aims to capture those key applications that have emerged since 2013 and intends to set a direction for the delivery of Northern Ireland's spatial data platform for the next five years. It makes sense therefore to align as much as possible to LPS 2020 the organisation's 5 year business strategy.

LPS 2020

Spatial NI will help deliver LPS 2020 by providing a single view of our joined-up data store and will be key to realizing the following objectives:



Innovation: delivering leading edge ICT.



Putting the Customer First: delivering excellent and innovative products and services.



Better Data: our data easily accessed using latest mobile technologies.



Our People – Delivering Excellence: An engaged, highly skilled and flexible workforce delivering excellent customer service.

The Northern Ireland Spatial Data Infrastructure (SDI)

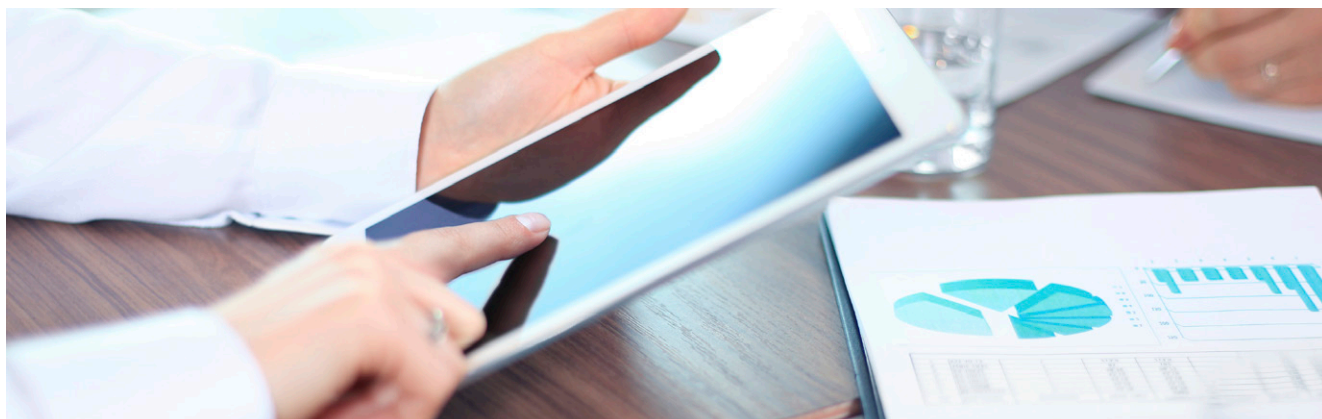
Spatial NI is the leading SDI for NI. It will increasingly become the ‘go to’ portal for all public sector location based data. In addition, it will link to other public sector geospatial data hubs and also act as a data repository for smaller organizations with less capability.



Key outcomes:

- It will become a widely recognized gateway to Northern Ireland’s geospatial ecosystem. It will be the definitive source for location based data using the most accurate and definitive mapping data for the region.
- Maintaining data currency - OSNI base mapping will updated as soon as the data is captured. Other government data contributors will be encouraged to supply frequent data refreshes.
- LPS ICT systems and solutions will be configured to ensure that they are capable of supporting the business, including being flexible enough to support the business as it changes. Reliability, resilience, functionality, ease of use and security will be key considerations.
- We will utilise the most advanced web technology and cloud based storage to maximise efficiency of service provision with an ultimate goal of a reliable, robust 24/7/365 service.
- In line with DFP mobile device strategy we will maximise capabilities, functionality and usability of mobile platforms to help drive innovation and deliver business benefits to our users whilst maintaining appropriate security and controls.

The primary delivery platform for all Northern Ireland OSNI mapping



LPS is Northern Ireland's national mapping organisation with responsibility for the currency and completeness of Ordnance Survey Northern Ireland (OSNI) branded mapping. LPS must charge for these products and services to recover the cost of providing the surveying and mapping functions, including data maintenance, customer support and the ability to reinvest in its business.

To ensure Spatial NI becomes the primary platform for delivering our products and services, we will endeavour to transfer all of our customers from receiving data on hard media to Spatial NI based web services. We will introduce fair pricing structures for all our Spatial NI customers.



Key outcomes: LPS will develop a range of Spatial NI services

- Members of the public will be able to access a free view of OSNI mapping with limited functionality.
- Central and Local Government customers will be encouraged to use a premium Spatial NI service. Access will be permitted through centrally funded mapping agreements.
- Major public sector customers will be encouraged to link their systems to Spatial NI.
- Customers who do not have the expertise to manage and distribute their own data will be invited to host their data on Spatial NI.
- Recent workshops revealed a significant demand from the private sector. We will introduce a paid-for service for private sector customers based on a pricing model related to company size.
- Another important revenue stream comes from our commercial partners. They will be encouraged to develop solutions to exploit Spatial NI functionality.
- We will protect the Intellectual Property and ensure all licensing is within LPS IPR guidelines. The system will provide full adherence to Information Fair Trader Scheme (IFTS) and Office of Public Sector Information (OPSI) guidelines.

The mapping platform for Civil Contingencies Group (CCG) and Cross Border emergency response: Spatially enabling emergency response



In March 2013 following an incidence of extremely heavy snowfall across Northern Ireland, Land & Property Services (LPS) was asked to provide mapping services to assist the multi agency task force. A customised emergency response web mapping application utilising Spatial NI was deployed. The web mapping service has been used in many exercises since the 2013 emergency and continues to play an important role in civil contingency planning.



Key outcomes of emergency support:

- Continued LPS participation in emergency exercises to improve emergency response mapping and protocols.
- Spatial NI will be critical to coordinating multi agency responses on the ground and ensure all users avail of up to date situational data.
- We will instigate and develop a secure web service protocol to inform partners of locations of vulnerable people.
- Maintenance of the secure viewers which will be used in emergency situations both in Northern Ireland and for cross border incidents. We will liaise with bodies in both jurisdictions to ensure coordination of resources.
- Provision Spatial NI training for emergency responders.

The Northern Ireland INSPIRE solution

Complying with the INSPIRE directive by acting as Northern Ireland's portal to Europe.



Key outcomes:

- Provision of a facility for Northern Ireland data contributors to feed INSPIRE compliant data through Data.gov to Europe
- Encourage regular refresh of data
- Compliance of LPS INSPIRE obligations



Our People – Delivering Excellence

An engaged, highly skilled and flexible workforce delivering excellent customer service is key to the success of the Spatial NI Strategy.



Key outcomes:

- We will stay abreast of and use the latest available technology Improving quality and accessibility of services to citizens in line with NICS IT strategy.
- We will continue to develop a highly skilled support team including web developers in order to provide a superior mapping/web service to all users. The team will be resourced fully to meet growing demand in terms of both numbers and skills. Resources will be dedicated to front line systems
- Our team will be fluent in INSPIRE and ELF implementing rules and timelines ensuring that Northern Ireland maintains its legally mandated status as the province's INSPIRE data hosting and delivery platform.
- Maintenance of working partnerships with other National Mapping Agencies and industry professionals to ensure that we retain our place in the arena of web based mapping.
- Engagement with the GI and developer communities to ensure best practice and industry standards are maintained. To learn from and compete with other industry service providers and sustain Spatial NI as a reliable and dynamic portal.



