The SDI Readiness Checklist

Readiness Component		Comments
1. Understanding your spatial		Data is at the heart of information
data holdings and		infrastructure.
requirements.		
Have you conducted a formal	Y/N	This is an art in itself, with a large body of
(spatial) information audit?		research and pre-existing, tested
		methodologies.
Looked at your own internal	Y/N	Are you collecting and using spatial data?
needs?		
Identified external users' needs?	Y/N	Others may depend upon you for data.
Have the findings (and		Have you captured sufficient detail to support
requirements) been expressed	Y/N	future decisions on metadata and data
formally?		maintenance?
Is the knowledge of your data		Many countries have now created Information
assets and information	Y/N	Asset Registers on the assumption that you
requirements sufficient to assess		cannot properly manage an asset until you
barriers, costs and benefits		know where it is!
regarding its use?		

2. Information Infrastructure vision		Information infrastructures satisfy a need.
Have you prepared an internal SDI 'vision' statement?	Y/N	Express the goals and expected impact of use of spatial data on government operations, on the economy, on citizens, relating to mandated tasks.
Is the vision supportive of (wider) organisation and/or national goals?	Y/N	Can you show this explicitly, when questioned, especially by stakeholders - and funders?
Does the vision address deficiencies that may have been identified in the audit?	Y/N	'Deficiencies' could be technical, operational, political, financial,
Does the vision address benefits and costs?	Y/N	Benefits to the organisation? to society?
Does the vision have a 'champion'?	Y/N	Has he/she publicly endorsed the vision?
Is the vision accepted by all stakeholders?	Y/N	Test this by wide(r) consultation.
Is the vision accepted by funders?	Y/N	All infrastructures have costs, and someone has to pay – so the 'bankers' need to be informed early.
Is there an established link to e- Government initiatives?	Y/N	SDI content (data) is mainly public sector information (PSI) – focus of e-Gov programmes.

3. SDI Strategy		Visions are implemented by robust strategies.
Have you developed a formal,	Y/N	Addresses the <u>inputs</u> , <u>activities</u> , <u>outputs</u> and
stated SDI Implementation		outcomes that lead to the impacts identified in
Strategy?		the Vision.
Have you identified and specified	Y/N	Are these realistic and measurable? Are they
SDI Performance Indicators?		acceptable to stakeholders, especially funders?
Is 'system performance'	Y/N	"Number of user downloads per day" from a
identified separately from		geoportal may be measurable, but in no way
'infrastructure performance'?		related to impacts.
Does the implementation		Information infrastructures take years to
strategy identify all costs,	Y/N	implement, even within single organisations –
especially related to human		don't expect SDI to be much different - or to
resources – over reasonable time		happen overnight!
frames?		
Can forecast benefits be	Y/N	Cost-benefit analysis is notoriously difficult,
attributed to the 'outputs' and		especially in regard to monetary value of many
'outcomes'?		benefits.
Have you considered different		Cost-benefit analysis is <u>not</u> the best way to
ways to convey to decision	Y/N	look at information infrastructures.
makers the 'value' of an SDI ?		Alternatives exist in the form of value chain
		analysis, multi-criteria analysis, etc. What is
		most suitable to your organisation?

4. Policy Readiness		"Informal" policies often equate to "no policies".
Does the organisation have a		This analysis should cover all aspects of
formal information or data policy	Y/N	data/info policy, e.g. ownership, access,
for all forms of data and		dissemination, use/re-use, charging/pricing,
information that it creates or		IPR, etc.
uses?		
Is the policy in the form of	Y/N	Rules are more easily enforced than principles
enforceable 'rules' or general		- and thus take more time and consideration to
'principles'?		create.
Was a specific <u>spatial</u>		Such policies cannot be made in isolation from
information policy framework	Y/N	pre-existing policies, e.g. regulations on re-use
set out in either the Vision or		of PSI, access to environmental data or for
Strategy documents?		data shared under international conventions.
Does the 'SDI Policy' sit within	Y/N	Does an SDI policy contravene any existing
the general info/data policy of		policies, i.e. relating to software, hardware,
the organisation?		IPR, governance?
Are policies expressed in	Y/N	Policies based on 'general principles' are of
sufficient detail to be understood		little practical use and often cannot be
and applied?		implemented.
Do mechanisms exist to <u>ensure</u>	Y/N	This involves 'monitoring' use (and mis-use!) of
that policies are enforced?		the SDI and governance issues.

5. Technology Readiness		Is your technology infrastructure robust?
Are ICT standards already in		This includes not only computer and network
place, especially those relating to	Y/N	standards, but also policy on hardware and
geographic information and		software purchases and use, proprietary
services?		versus open source, web services, i.e. a wide
		range of topics.
Do developers and custodians		Experience shows that standards often exist in
understand the relevant	Y/N	principle, but not always in practice.
standards sufficiently well?		Awareness and use training may be required –
		tools help!
Is the ICT infrastructure		Much spatial data places a significant load on
sufficiently robust to handle	Y/N	computer and communications systems due to
processing and dissemination of		the size of files involved and/or the volume of
spatial data?		traffic that can be generated by a spatial data
		application.
Is the infrastructure adequate	Y/N	Can the infrastructure available to field offices
throughout the whole		support the same level of activity as that at
organisation?		HQ?

6. Data Readiness		"Data that is unused has no value."
Is sufficient spatial data <u>available</u> for operational requirements, to meet all organisation goals and mandated tasks?	Y/N	Lack of data – especially current and/or good data – is probably the most often heard complaint from those working with spatial data for service provision.
Does sufficient data capture capability exist?	Y/N	This relates also to being able to locate relevant data from pre-existing sources, which has policy, technology and human resources issues.
Are standards relating to <u>spatial</u> data in place and sufficiently well understood?	Y/N	This relates to international or institutional standards that have an impact on data with a location attribute, including metadata, data specification (formats), transformations, dissemination (geoportals).
Do custodians have sufficient experience with spatial information processing technology and principles?	Y/N	Do spatial data custodians fully understand the importance and role of coordinate systems, transforms, scale and scalability, precision v. accuracy, cartography (in relation to portrayal, especially via geoportals)? Is more training needed?

7. Resource Readiness		Resources take many forms – people are key!
Are the <u>people</u> available, with		Not just 'available', but available to take on
appropriate data and ICT skills,	Y/N	new tasks while continuing with their current
to implement the SDI strategy?		workload!
If not, can skills be created or		Training in preparation, processing and use of
improved quickly enough not to	Y/N	spatial information is as important outside the
jeopardise SDI implementation?		'GIS Unit' as for the technology specialists in
		your organisation.
Have you investigated what level		An internal Skills Requirements Analysis can
of capacity building is needed	Y/N	pay big benefits in future years, identifying
across all stakeholders, not just		were limited funds can be best targeted for
for ICT or geomatics staff?		training activities.
Have you looked at the impact		Many data-related tasks in creating and
that new tasks related to SDI	Y/N	maintaining an SDI do not add significantly to
implementation may have on		existing data processing workloads – but some
current workloads and staffing		do - and need identification.
requirements?		
Is there <u>budget</u> available to	Y/N	Be practical – don't develop elaborate plans
implement the SDI strategy?		for which funding is simply not available. Be
		clever!
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8. 'Customer' Readiness &		Users outside your own Unit could use your
Ara your years going to benefit		data.
Are your users going to benefit	V/NI	A potential user connected to your geoportal
from implementing the SDI	Y/N	
elements that you are		much from a new spatial data Decision Support
proposing?		System.
Is there anything you can do to	\/ /NI	Education, capacity building, instruction in
increase 'customer' readiness?	Y/N	using geoportals or other tools, distributing
		data in locally readable formats (CD/DVD) – all
1	1	are important tasks.

	Information cultures vary widely in and across
	organisations – and nations.
	The "not invented here" syndrome and
Y/N	organisational inertia are two of the biggest
	barriers to acceptance of new technology and
	practices, even today.
	Working with users from outside your own
Y/N	Unit or Organisation requires different skills –
	and better understanding of others'
	capabilities.
	Where does 'spatial data' fall within your
Y/N	organisation – under the ICT department, in
	multiple user-oriented units – and how
	important is the 'spatial' (location) data
	attribute to all holders of such data?
	Are you ready for SDI?
	[Answers here, please!]
	Y/N