

to government and the user community through

the execution of well-defined data supply chains

for organizing, planning, acquiring, aggregating,

integrating, curating, analyzing, publishing and

archiving geospatial information.

Quick Reference Guide: UN-IGIF Nine Strategic Pathways



Data Governance and Management

Maintained Geodetic Infrastructure

Data Storage/Retrieval Process

Data Interoperability

Metadata Profiles

							Education Engagement
	DESCRIPTION AND OBJECTIVE	ELEMENTS OF THE STRATEGIC PATHWAY	POTENTIAL TOOLS AND METHODOLOGIES	KEY ACTIONS TO STRENGTHEN GEOSPATIAL INFORMATION MANAGEMENT	OUTCOMES	RELATED PATHWAYS	
Governance and Institutions	DESCRIPTION: Establishes the leadership, governance model, institutional arrangements and a clear value proposition to strengthen multidisciplinary and multisectoral participation in, and a commitment to, achieving the UN-IGIF. OBJECTIVE: Attain political endorsement, strengthen institutional mandates and build a cooperative data sharing environment through a shared vision and understanding of the value of the UN-IGIF, and the roles and responsibilities to achieve the vision.	 Governance Model Leadership Value Proposition Institutional Arrangements 	 Steering Committee Charter Example Strategic Alignment Template Guidance for Vision, Mission, and Goal Statements Country-level Action Plan Template Monitoring and Evaluation Template Success Indicators Example 	FORMING LEADERSHIP: Governing Body, Geospatial Coordination Unit(s), Specialist Working Groups ESTABLISHING ACCOUNTABILITY: Governance Model DEFINING VALUE: Strategic Alignment Study, Value Proposition Statement SETTING DIRECTION: Geospatial Information Management Strategy, Change Strategy CREATING A PLAN OF ACTION: Country-level Action Plan TRACKING SUCCESS: Monitoring and Evaluation, Success Indicators	 ✓ Efficient Planning and Coordination ✓ Strengthened Leadership, Institutional Mandates and Political Buy-in ✓ Cooperative Data Sharing ✓ Valued Geospatial Information Management 	2 3 4 5 9	Governance Model Strategic Alignment Study Value Proposition Statement Geospatial Information Management Strategy Change Strategy Success Indicators
(2) Policy and Legal	DESCRIPTION: Establishes a robust policy and legal framework that is essential for instituting effective, efficient and secure management and exchange of geospatial information-nationally and sub-nationally. OBJECTIVE: Address current policy and legal issues by improving the policies and laws associated with, and having an impact on, geospatial information management. This is achieved by proactively monitoring the policy and legal environment, including mandating responsibility for the production of data, and keeping abreast of issues and challenges arising from the evolving, innovative and creative use of geospatial information and emerging technologies.	 Legislation Policies, Norms and Guides Data Protection, Licensing and Sharing Governance and Accountability 	 Common Legal Terms Review and Assessment Policy Review Questions Use Case Example Gap Analysis Matrix Policy and Legal Instrument Accessing Fitness for Purpose for Policy Managing Intellectual Property Rights Addressing Sensitive Information 	PROVIDING LEADERSHIP: Policy and Legal Working Group ASSESSING NEEDS: Policy and Legal Review, Needs Assesment and GAP Analysis ADDRESSING OPPORTUNITIES: Policy and Legal Framework, Data Sharing and Dissemination, Licensing Geospatial Information FUTURE PROOFING: Future-Proofing ADDRESSING COHERENCE: Intellectual Property Rights, Privacy and Data Protection, Liability Concerns, Sensitive Information DELIVERING COMPLIANCE: Impact Assessment, Compliance Strategy	 ✓ Sound and Enabling Policy and Legal Environment ✓ Maximizes Utility of Geospatial Information with Safeguards ✓ Effective/Secure Management, Integration, and Application ✓ Responsive to Changes and Progress ✓ Mandates and Responsibilities Clarified ✓ Strengthen Governance and Accountability 	9	Review and Assessment Gaps and Opportunities Analysis Policy and Legal Framework Documented Intellectual Property Rights/Data Protections Impact Assessment Compliance Strategy Methodology for Modernization
(3) Financial	DESCRIPTION: Establishes the business model, develops financial partnerships, and identifies the investment needs and means of financing for delivering integrated geospatial information management, as well as recognizing the milestones that will achieve and maintain momentum, and realize benefits. OBJECTIVE: Achieve an understanding of the financial plans required to establish and maintain integrated geospatial information management, as well as the longer-term investment program that enables government to respond to evolving societal, environmental and economic demands for geospatial data.	 Business Model Opportunities Investment Benefits Realization 	 UN-IGIF 'Current and Desired Future Dual Response' Survey UN-IGIF Baseline Survey World Bank/FAO SDI Diagnostic Tool Business Model Canvas Developing a Business Model Geospatial Program Budget Socio-Economic Impact Assessment Approach Components of a Business Case Developing an Annual Budget Financing Models 	SETTING DIRECTION: Financial Governance, Financial Accountability SITUATIONAL ASSESSMENT: Current Operating Environment, Current Business Model, Data Policy, Public Good FINANCIAL PLAN: Desired Business Model, Financial Planning CASE FOR INVESTMENT: Socio-Economic Impact Assessment, Business Case, Investment Appraisal, Annual Budget SOURCES OF FUNDING: Sources of Funding, Strategic Opportunities DERIVING VALUE: Benefits Realization, Communicate Benefits	 ✓ Investment Plan with Funding Sources, Obligations, and Estimates for Future Years ✓ New Funding Initiatives Identified to Meet National Geospatial Information Priorities ✓ Financial Accounting of Costs Associated with all Aspects of National Geospatial Information Program ✓ Socio-Economic Value of Geospatial Information is Defined and Aligned to Financial Plan to Realize Benefits 	9	Financial Arrangement and Management Plan Situational Assessment Strategic Opportunities Assessment Desired Business Model Financial Plan Socio-Economic Impact Assessment Investment Appraisal Annual Budget
4)	DESCRIPTION : Establishes a geospatial data framework and custodianship guidelines for best practice collection and management of integrated geospatial information that is appropriate to ensure cross sector and multidisciplinary collaboration. OBJECTIVE : Enable data custodians to meet their data management, sharing and reuse obligations to government and the user community through	 Data Themes Custodianship, Acquisition and Management Data Supply Chains Data Curation and Delivery 	 Fundamental Geospatial Data Themes Data Theme Description Data Inventory Questionnaire Dataset Profile Template Gap Analysis Matrix Data Theme Road Map Template Data Custodianship Policy Principles 	GETTING ORGANIZED: Data Framework, Data Inventory, Dataset Profiles PLANNING FOR THE FUTURE: Data Gap Analysis, Data Theme Roadmap CAPTURING AND ACQUIRING DATA: Data Capture, Data Acquisition Program MANAGING DATA SUSTAINABILITY: Custodianship Policy, Data Governance, Data Management, Maintained Metadata	 ✓ Increased Range and Scope of Authoritative Data ✓ A Critical Mass of Centrally Coordinated Data ✓ Cost Reduction Through Productivity Improvements ✓ Ability to Monitor and Measure Progress Towards Achieving 	1 2 5	Data Framework Data Inventory Dataset Profiles Data Gap Analysis Data Theme Roadmap Custodianship Policy

• Data Governance Roles

• Data Release Guidelines

• Data Management Plan Elements

• Guidance for Geodetic Infrastructure

Global Statistical Geospatial FrameworkGuidance on Geo-Statistical Integration

• Metadata Creation Checklist

Data Governance, Data Management, Maintained Metadata,

MAINTAINING ACCURATE POSITIONING: Maintained

INTEGRATING DATA: Geospatial/Statistical Integration,

Geocoding and Aggregation, Data Supply Chains, Data

Data Release, Storage/Retrieval System

Geodetic Reference Frame