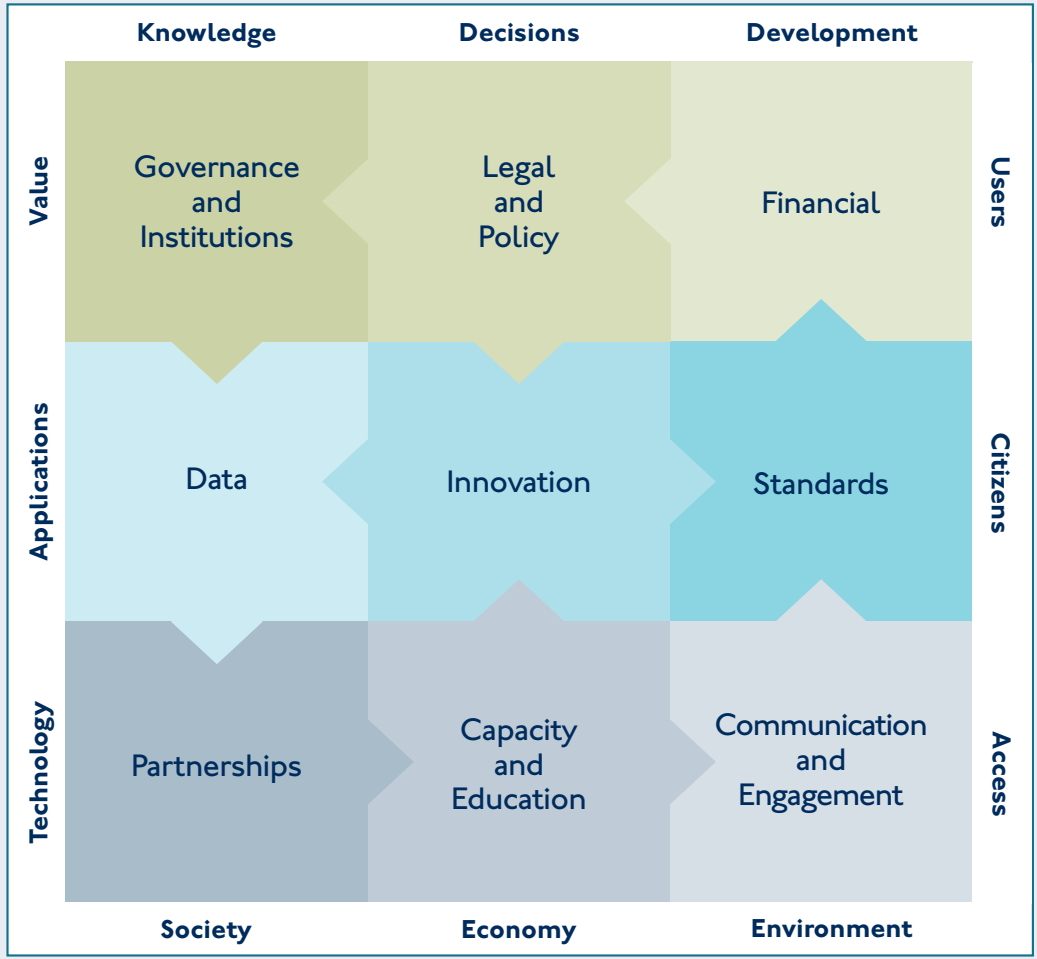
Embedding an IGIF-Aligned MSDI into wider Geospatial considerations

The UN-GGIM IGIF Nine Pathways model

Governance

Technology

People



MSDI Four Pillars
IHO Publication C-17

Open Geospatial Consortium

Industry

Government

Academia

NGO & NFP

Sector

Associate → Technical → Principle → Strategic

Membership

Community | Innovation | Standards

Activities

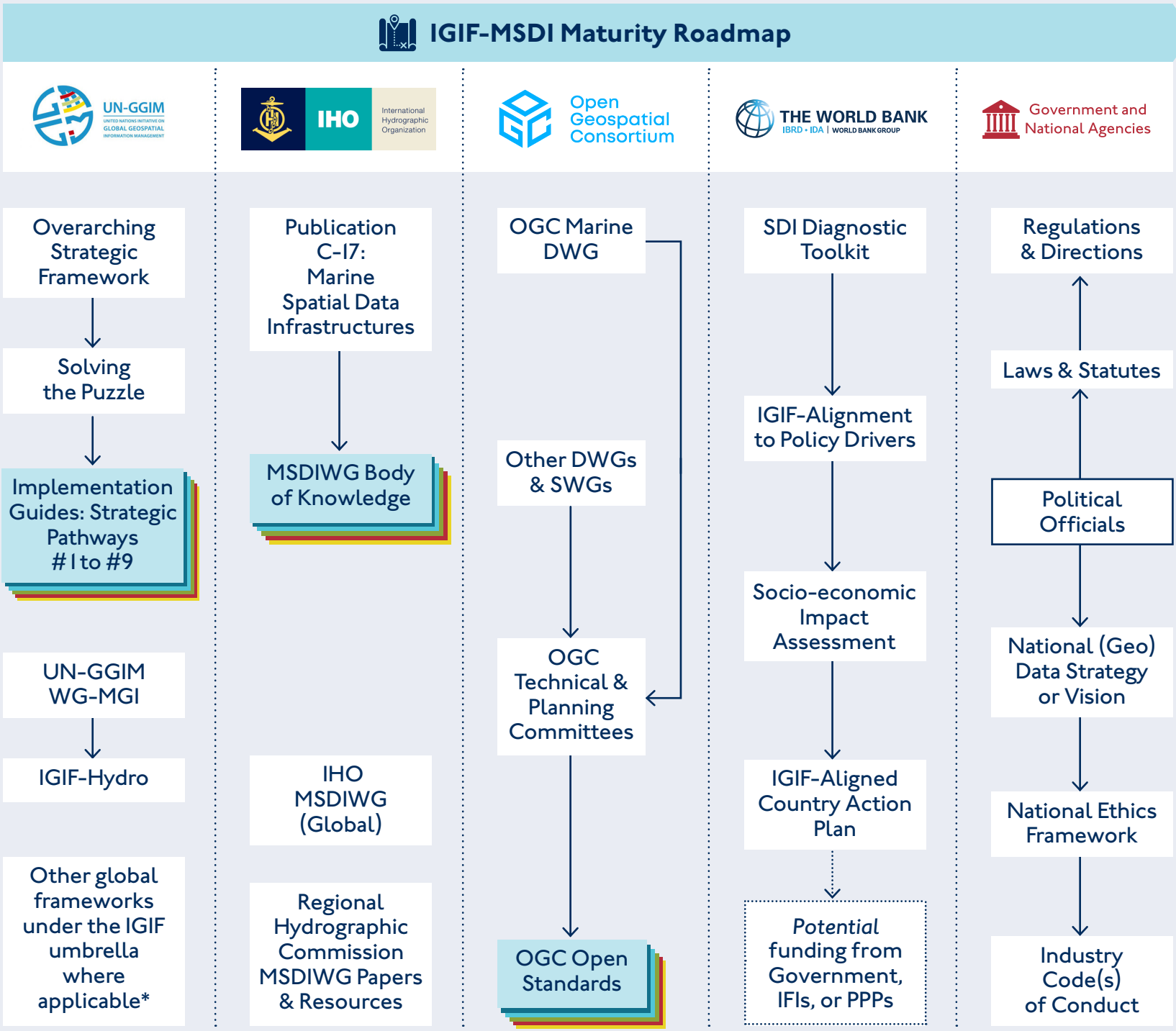
OGC Standards | OGC Best Standards | Community Practices | Pilots & Demonstrations | Engineering Reports | Compliance Testing

Outputs

Standardization | Interoperability | Productivity | Cost Efficiency

Benefits

(Simplified) Ecosystem of IGIF and MSDI Resources



* Including the Fundamental Geospatial Data Themes and the Global Statistical Geospatial Framework

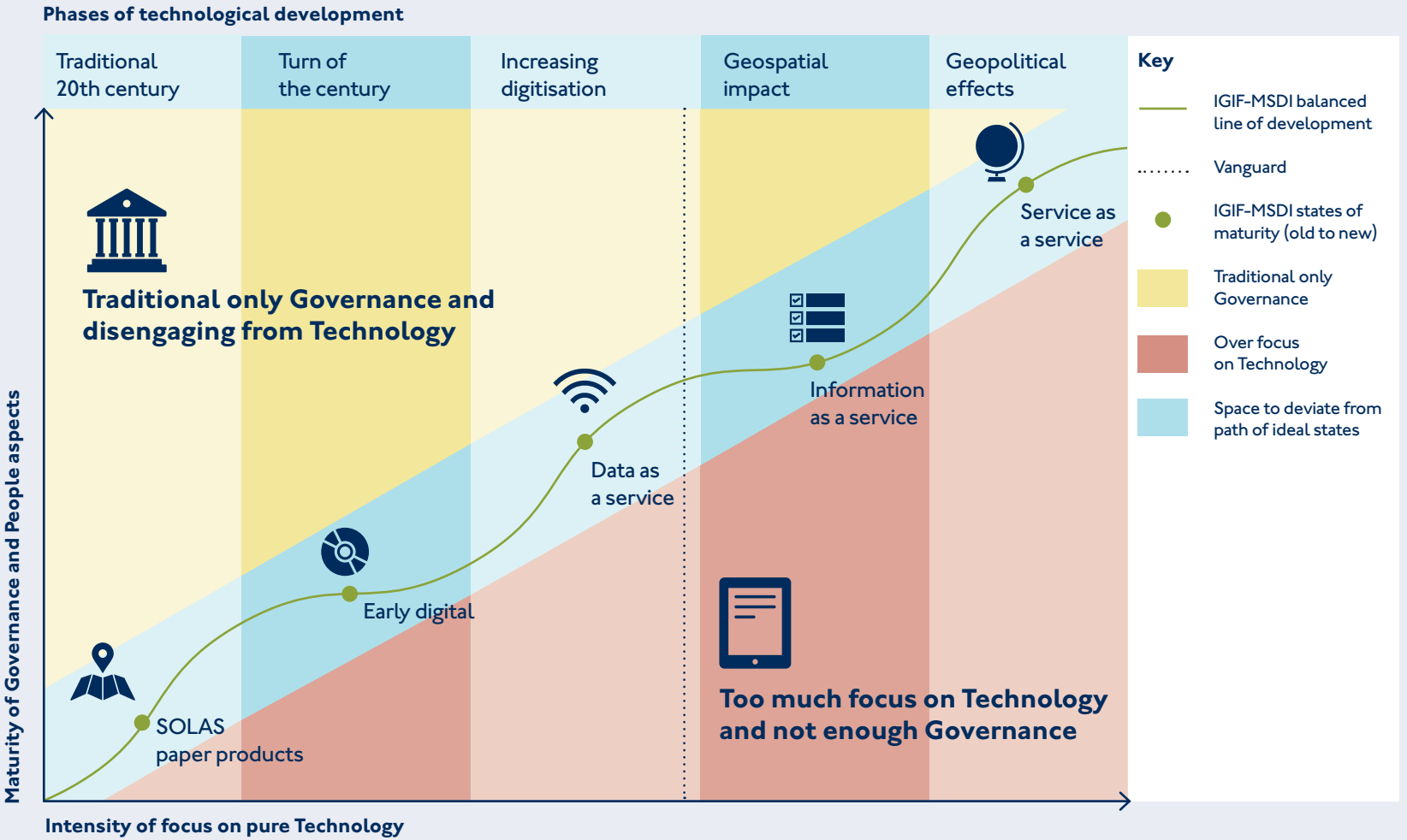
The Context of the UN-GGIM, IHO, OGC, and World Bank

Organisation	**WHY?** Socio-economic motivations and inclusive benefits from global geospatial information management	**WHAT?** Developing a spatial data infrastructure suited for unlocking the value in marine and maritime data	**HOW?** Implementing OGC Standards to maximise the capabilities of Tech via the cost benefits of interoperability
UN-GGIM: United Nations Initiative on Global Geospatial Information Management	Overarching Strategic Framework Solving the Puzzle	Implementation Guide: 9 Strategic Pathways	Country-Level Action Plans (Incl. When? Who?)
IHO: International Hydrographic Organization	Representation at UN-GGIM WG-MGI and OGC Marine DWG	Publication C-17 on the MSDI Concept	MSDIWG Body of Knowledge
Open Geospatial Consortium	Representation at UN-GGIM WG-MGI and IHO MSDIWG	OGC TC/PC, DWG and SWG Meetings	OGC Open Standards

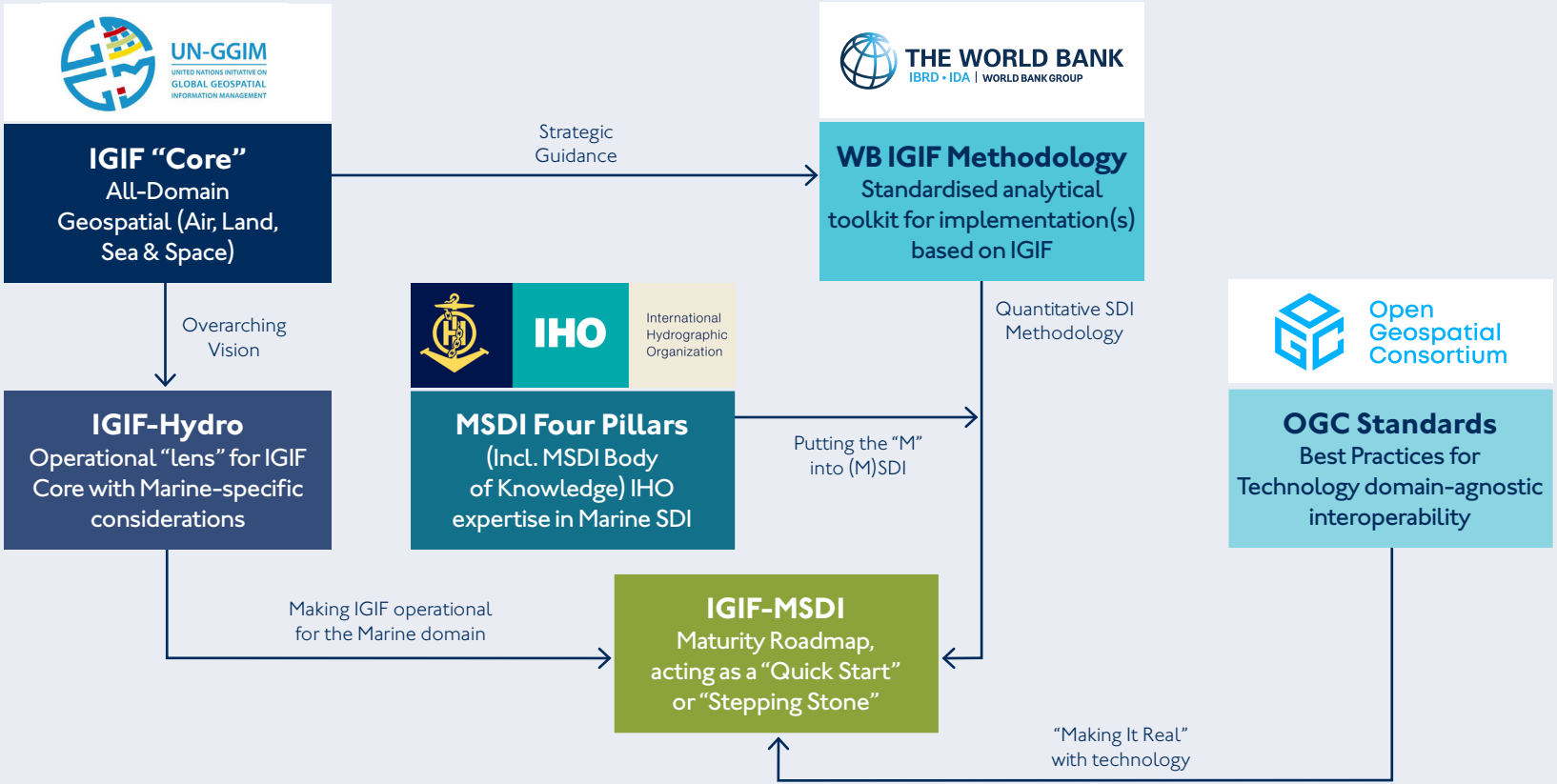
Foundation Elements: Financing & National Ecosystems

THE WORLD BANK IBRD • IDA | WORLD BANK GROUP	SDI Diagnostic Toolkit | Alignment to Policy Drivers | Socio-Economic Plan | Country Action Plan
National Government	Laws & Statutes | Regulations & Directives | National Geodata Policies | Industry Ways of Working

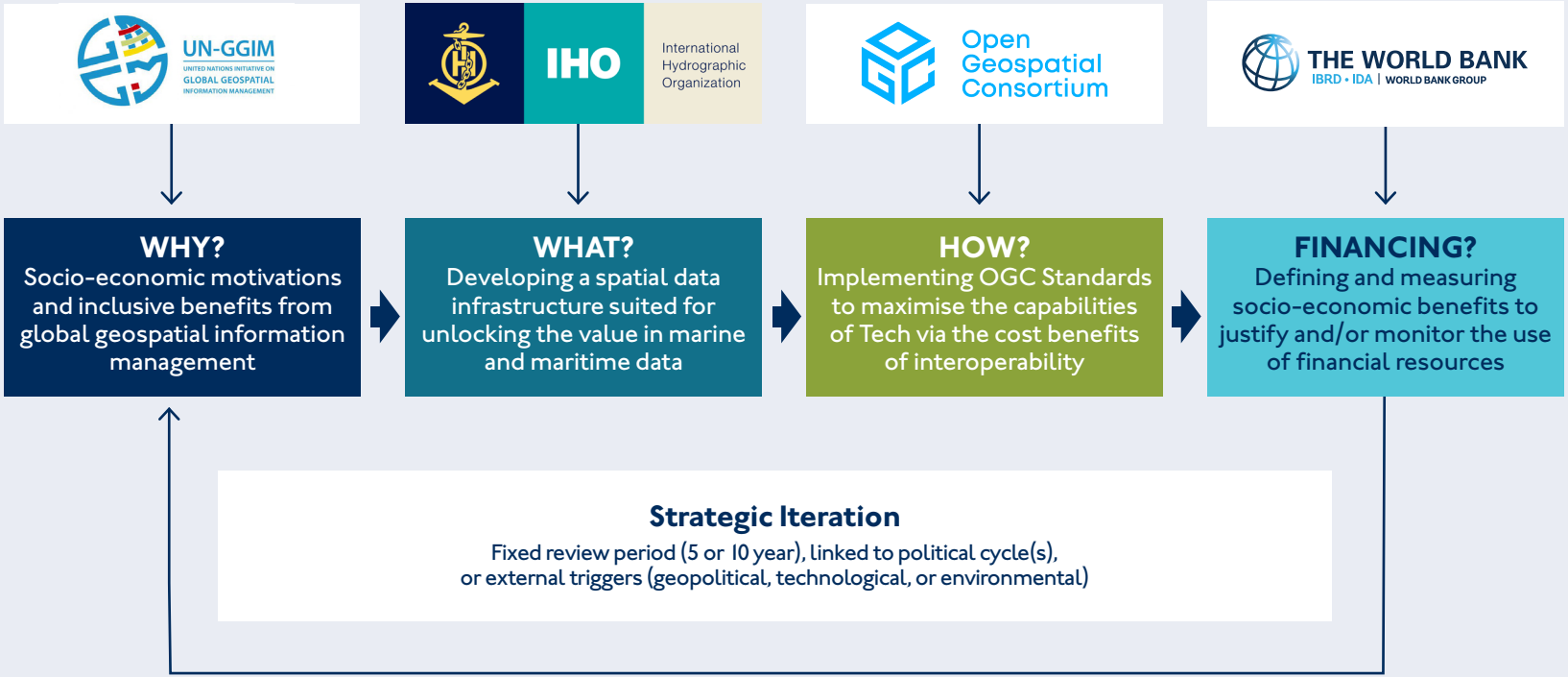
IGIF-MSDI is a Pathway, Maturity is a State



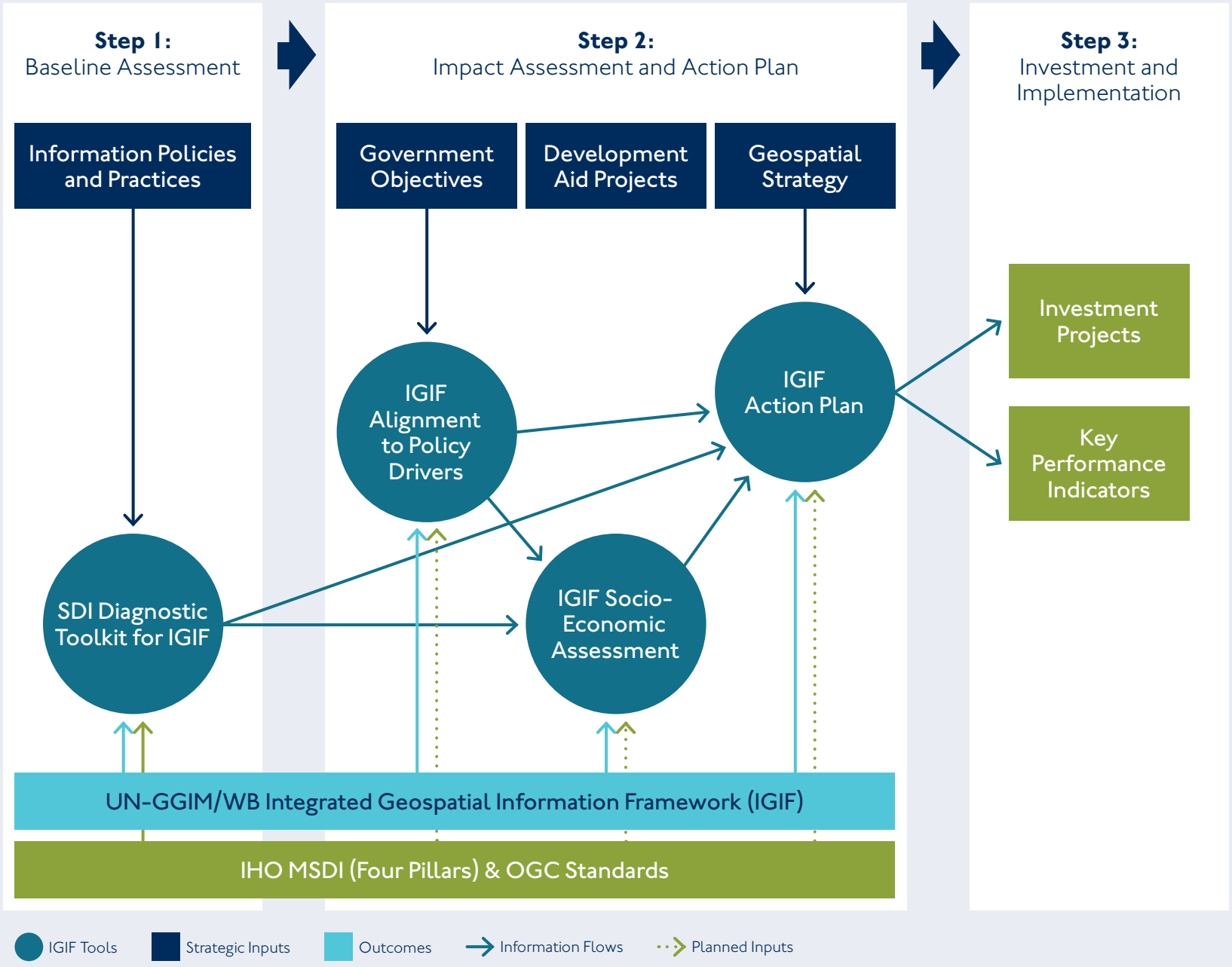
Key inputs for an IGIF-Aligned MSDI



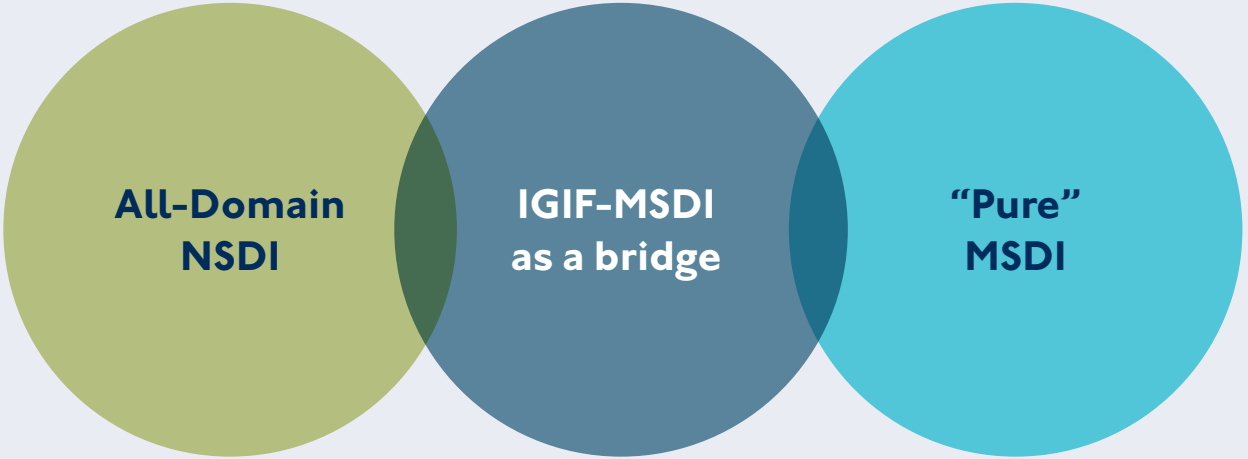
Holistic Approach to an IGIF-Aligned MSDI



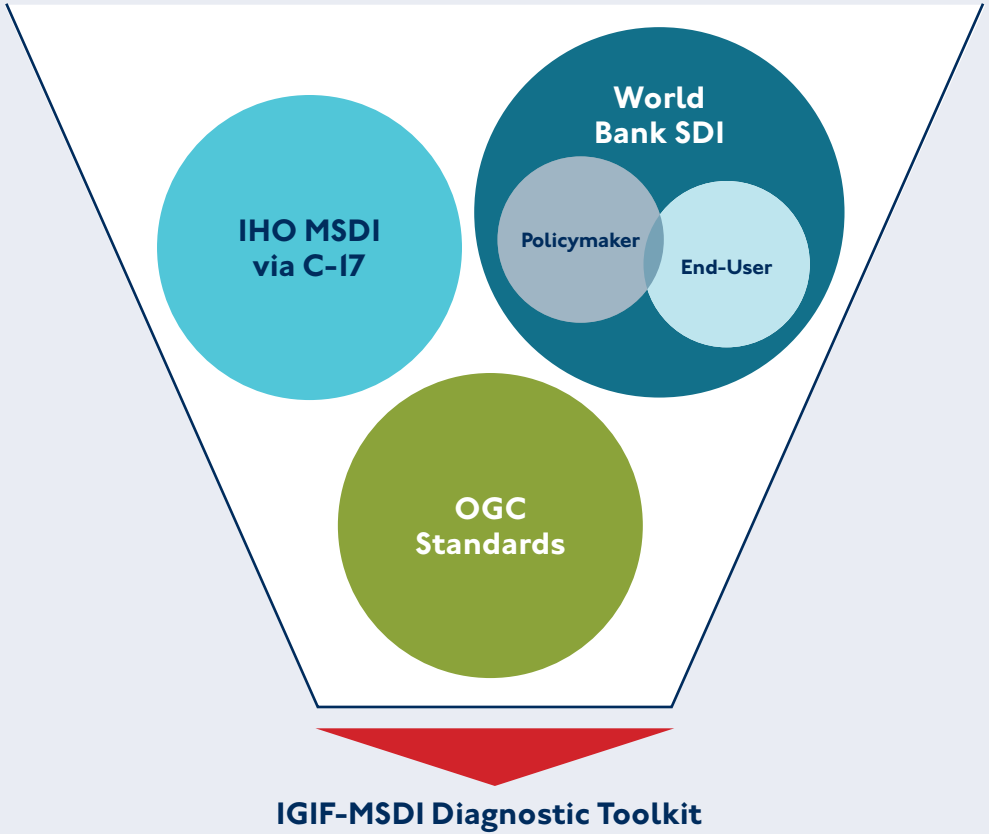
World Bank IGIF Methodology (with IHO and OGC inputs)



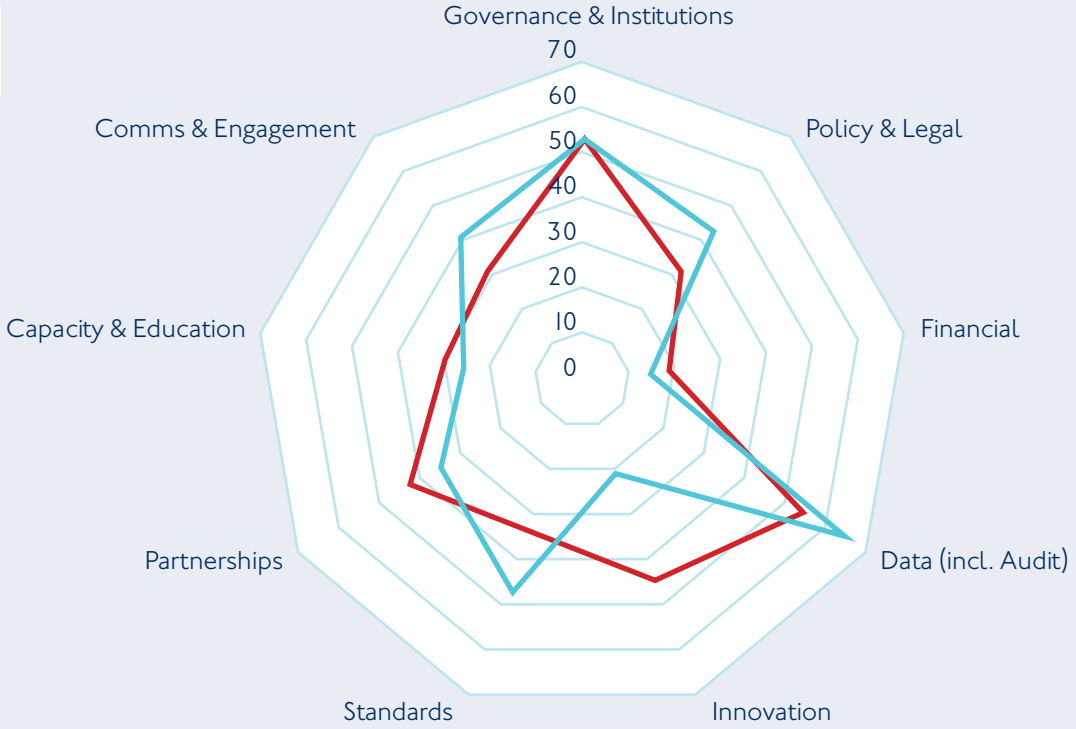
Bridging towards an NSDI



Components of the IGIF-MSDI Diagnostic Toolkit



IGIF-MSDI Maturity Assessment



Part 1: Fundamental Data Themes

Global Geodetic Reference Frame

Addresses

Buildings and Settlements

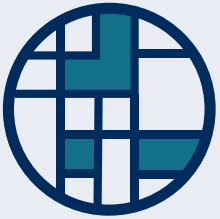
Elevation and Depth

Functional Areas

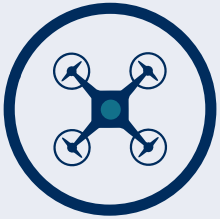
Geographical Names

Geology and Soils

Land Cover and Use



Land Parcels



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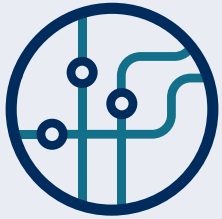
Physical Infrastructure

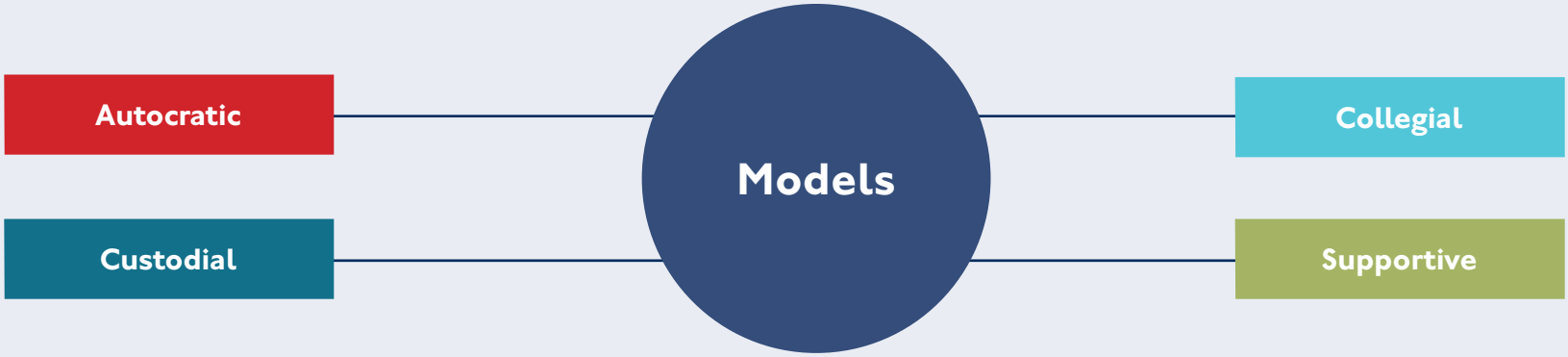
Population Distribution



Transport Networks

Water

Models of Organizational Change



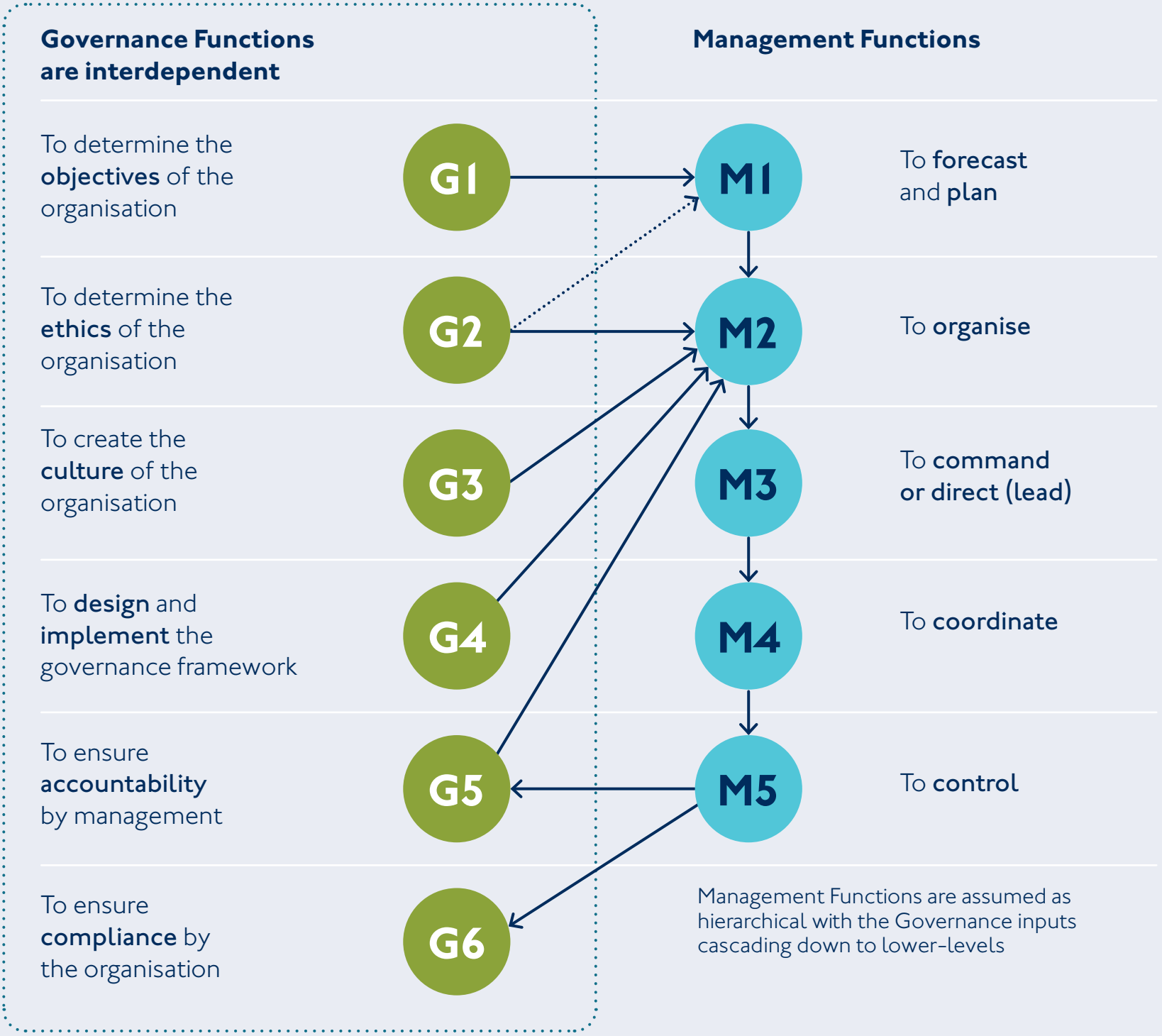
	Autocratic	Custodial	Collegial	Supportive
Basis of Model	Power	Economics	Partnership	Leadership
Managerial Orientation	Authority	Money	Teamwork	Support
Employee Orientation	Obedience	Security and Benefits	Responsible Behaviour	Job Performance
Employee Behaviour	Dependence on Management	Dependence on Organisation	Self-Discipline	Participation
Employee Needs Met	Subsistence	Security	Self-Actualisation	Status and Recognition
Performance Result	Minimum	Passive Cooperation	Moderate Enthusiasm	Awakened Drives

Basic key elements of the multiagency IGIF-MSDI umbrella Governance model

Empowerment of Agency Representatives

Virtual IGIF-MSDI Enterprise

Virtual IGIF-MSDI Enterprise

Collaborative, cooperative and consensus **decision-making** via representatives or ambassadors from each Agency.

IGIF-MSDI Governance and Management