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# IGIF-MSDI Maturity Roadmap

## "Quick-Start Guide for undertaking an IGIF-aligned MSDI"

EUR ING **Dr Gerald J Wong** MPhys MBA EngD MIET MInstP CEng CPhys
UKHO Data Strategy and Information Governance Lead

**Jens Peter Hartmann**
Chair of the IHO *Marine Spatial Data Infrastructures* Working Group (MSDIWG), Danish Geodata Agency

# MSDI Four Pillars:
IHO C-17 (2009)

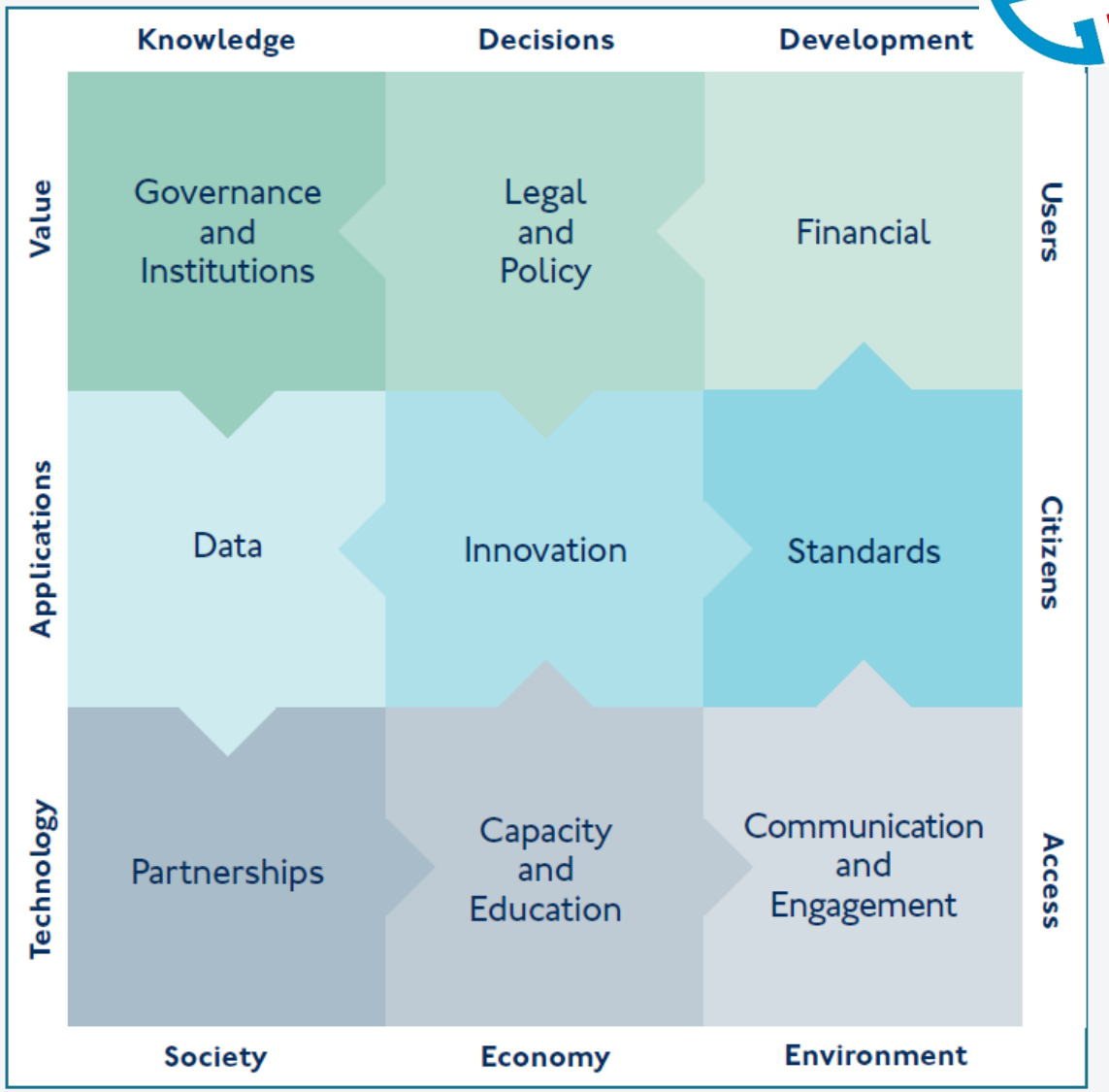
# The UN-GGIM IGIF Nine Pathways model

UN-GGIM
UNITED NATIONS INITIATIVE ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT

**Governance**

**Technology**

**People**

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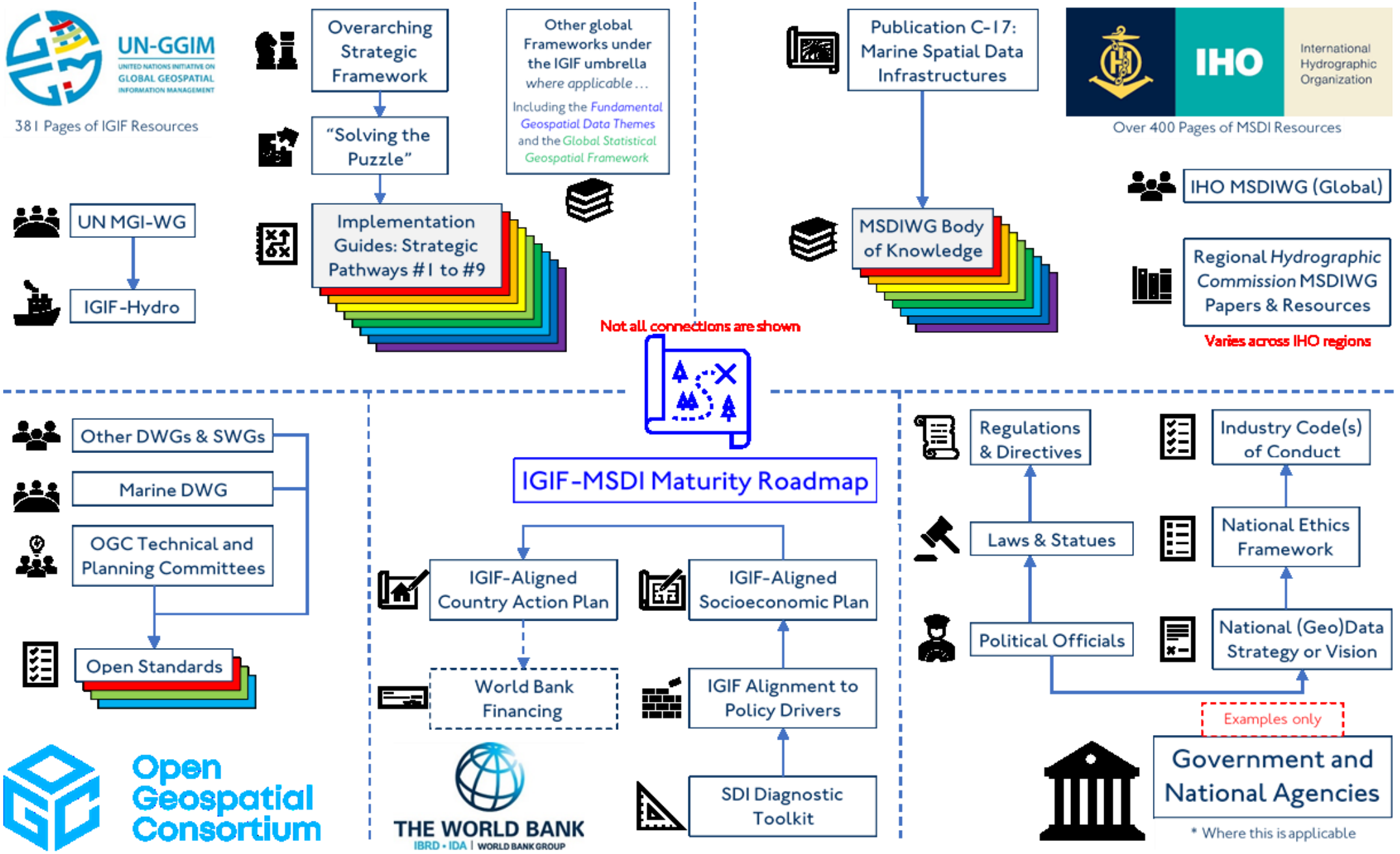
**UN-GGIM** IGIF (24th July 2018)


UN-GGIM
UNITED NATIONS INITIATIVE ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT
381 Pages of IGIF Resources
Overarching Strategic Framework
"Solving the Puzzle"
Implementation Guides: Strategic Pathways #1 to #9
Other global Frameworks under the IGIF umbrella where applicable …
Including the Fundamental Geospatial Data Themes and the Global Statistical Geospatial Framework
UN MGI-WG
IGIF-Hydro
Publication C-17: Marine Spatial Data Infrastructures
MSDIWG Body of Knowledge
IHO
International Hydrographic Organization
Over 400 Pages of MSDI Resources
IHO MSDIWG (Global)
Regional Hydrographic Commission MSDIWG Papers & Resources
Varies across IHO regions
Not all connections are shown
Other DWGs & SWGs
Marine DWG
OGC Technical and Planning Committees
Open Standards
IGIF-MSDI Maturity Roadmap
IGIF-Aligned Country Action Plan
IGIF-Aligned Socioeconomic Plan
World Bank Financing
IGIF Alignment to Policy Drivers
SDI Diagnostic Toolkit
THE WORLD BANK
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Regulations & Directives
Laws & Statues
Political Officials
Industry Code(s) of Conduct
National Ethics Framework
National (Geo)Data Strategy or Vision
Examples only
Government and National Agencies
* Where this is applicable
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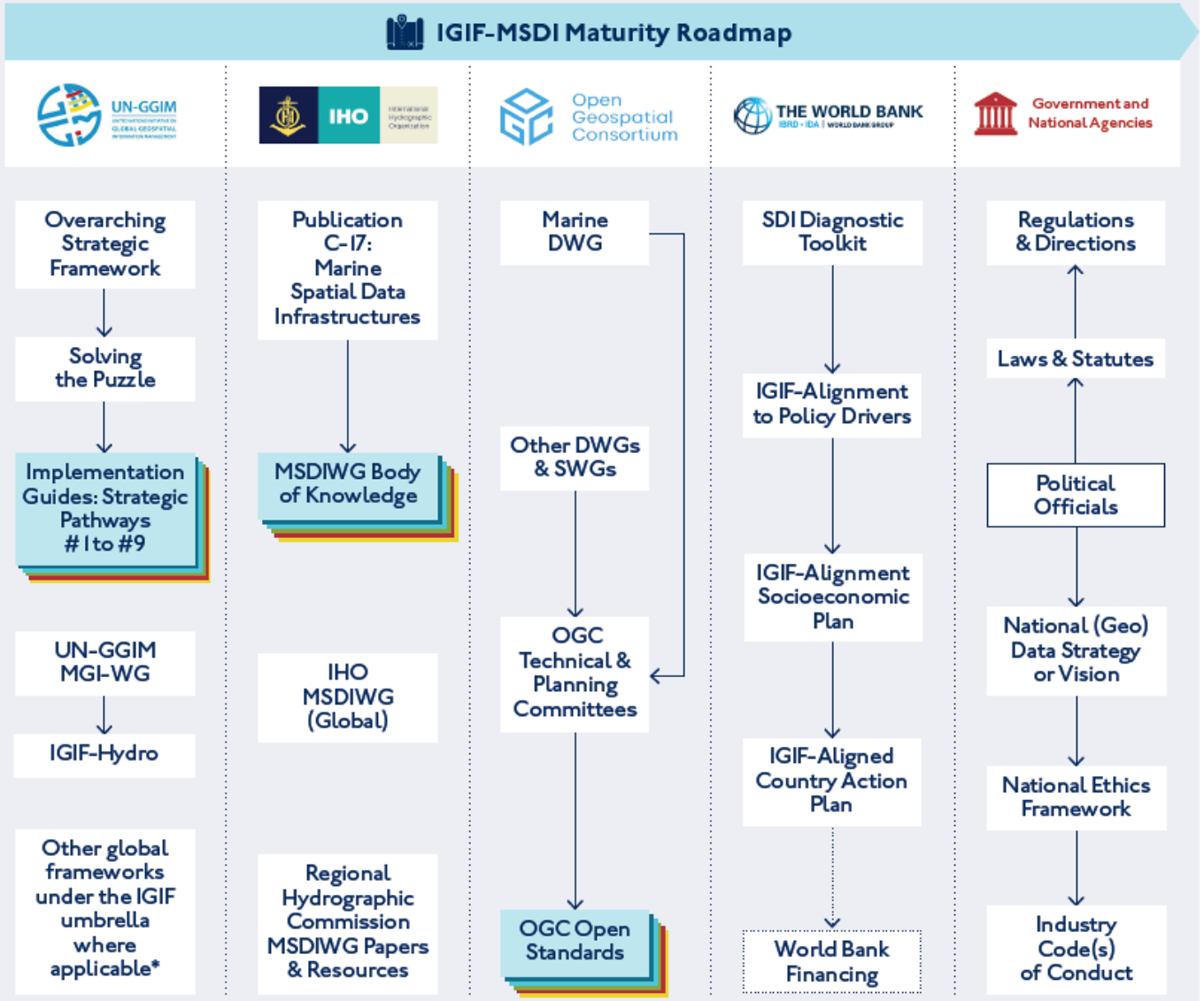
# (Simplified) Ecosystem of IGIF and MSDI Resources




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

# The Context of UN-GGIM, IHO and the OGC

| Organisation | WHY? Socioeconomic 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 cost benefits of interoperability |
|---|---|---|---|
| UN-GGIM | Overarching Strategic Framework<br>Solving the puzzle | Implementation Guide: 9 Strategic Pathways | Country-Level Action Plans (Incl. When? Who?) |
| IHO International Hydrographic Organization | Representation at UN-GGIM MGI-WG and Marine DWG | Publication C-17 on the MSDI Concept | MSDIWG Body of Knowledge |
| Open Geospatial Consortium | Representation at UN-GGIM MGI-WG and IHO MSDIWG | OGC TC/PC, DWG and SWG Meetings | OGC Open Standards |

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**Foundation Elements:** Financing & National Ecosystem

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[redacted]

UN-GGIM
UNITED NATIONS INITIATIVE ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT

IHO
International Hydrographic Organization

Open Geospatial Consortium

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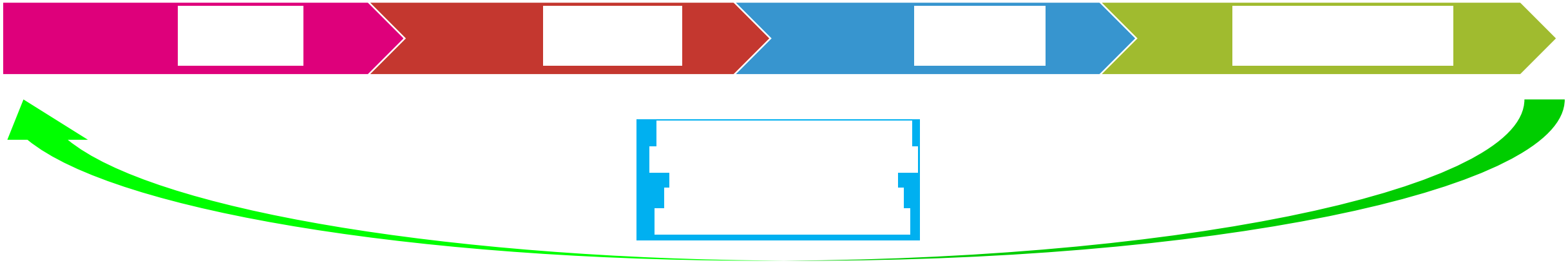
**WHY?**
Socioeconomic motivations and inclusive benefits from global geospatial information management

**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 cost benefits of interoperability



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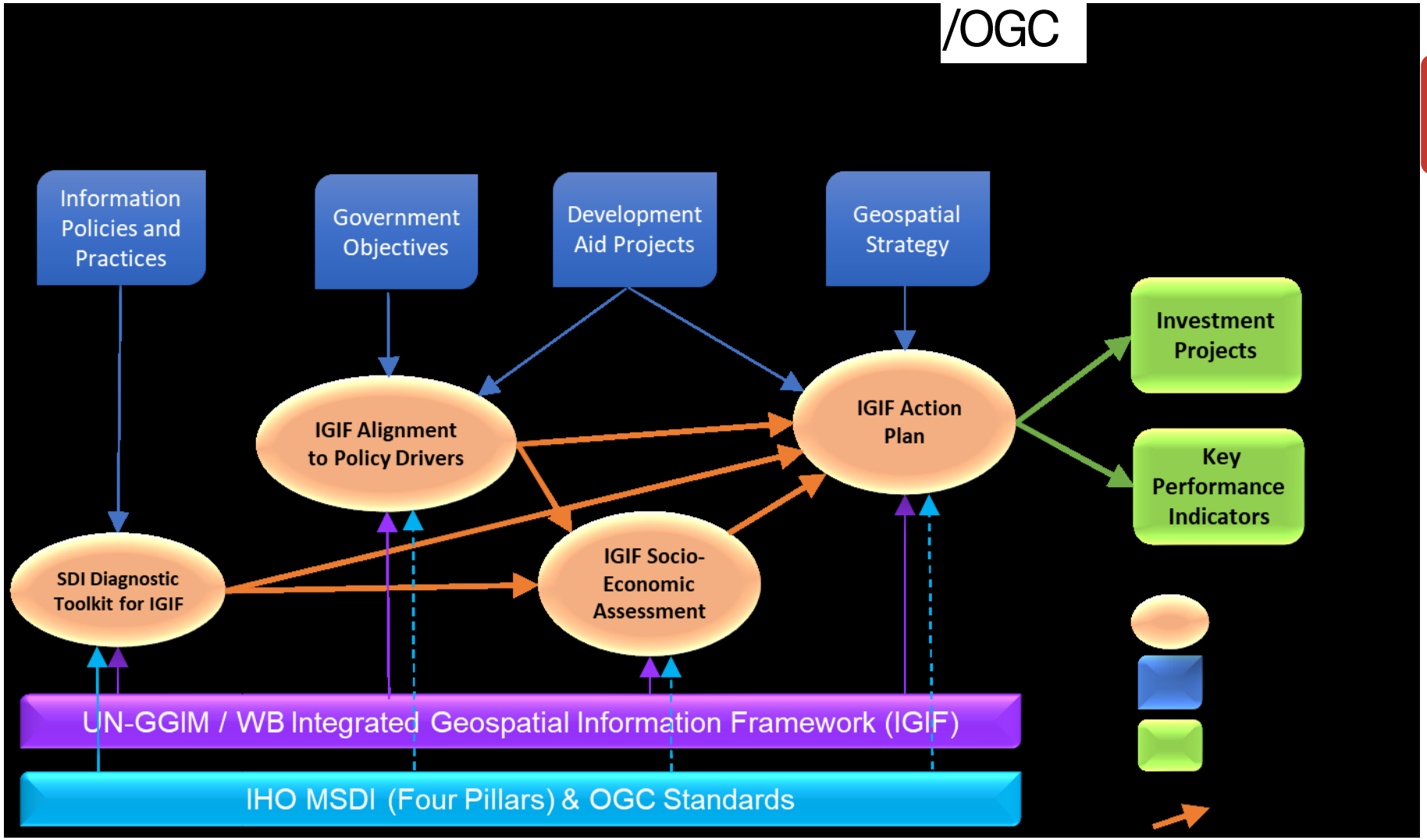
/OGC




- 9 Assessment Categories
- Quantitively Assessed
- Adjustable Weightings
- Output is a 9D metric

- Smaller subset of questions
- *End-User* & *Decision-Maker* "Fusion"
- **Modular** IHO & OGC questions
- **Interoperable** with full WB-SDI Toolkit

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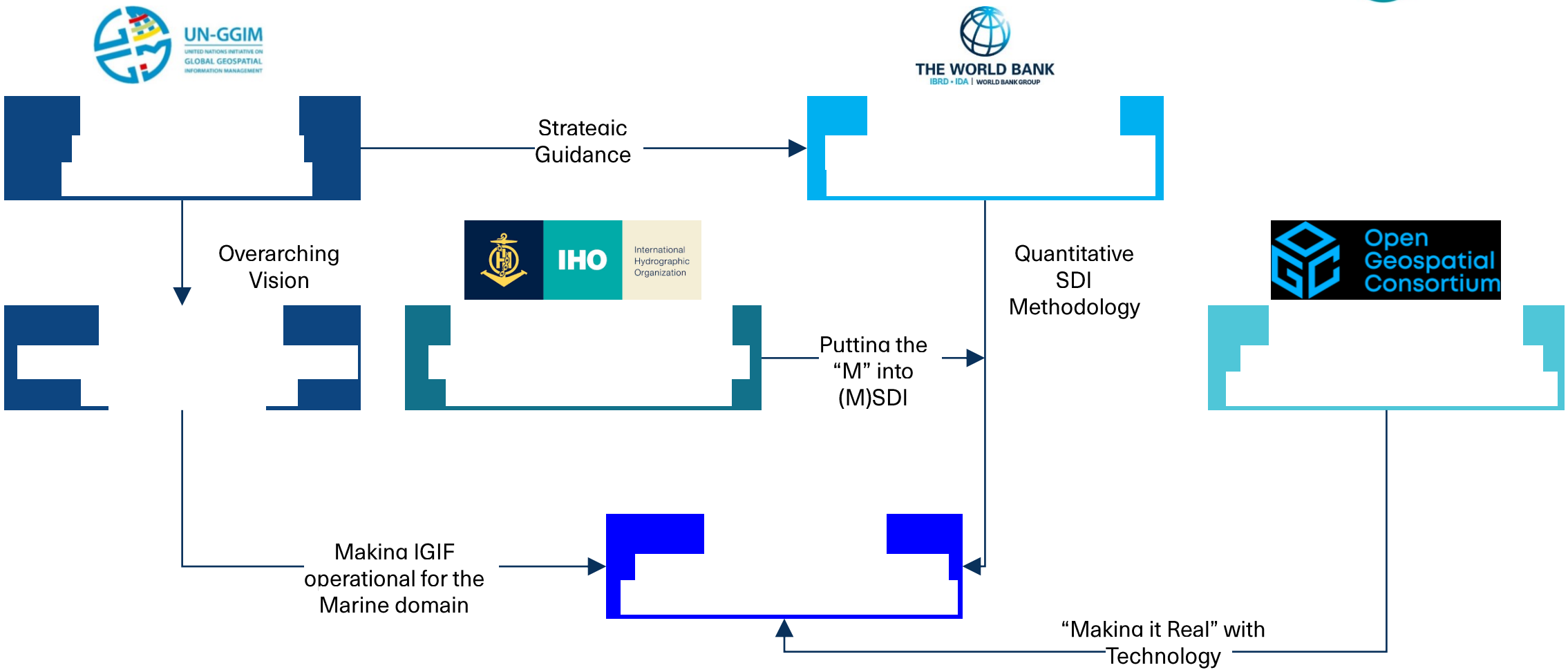

# Open Geospatial Consortium
## IGIF-MSDI Maturity Roadmap

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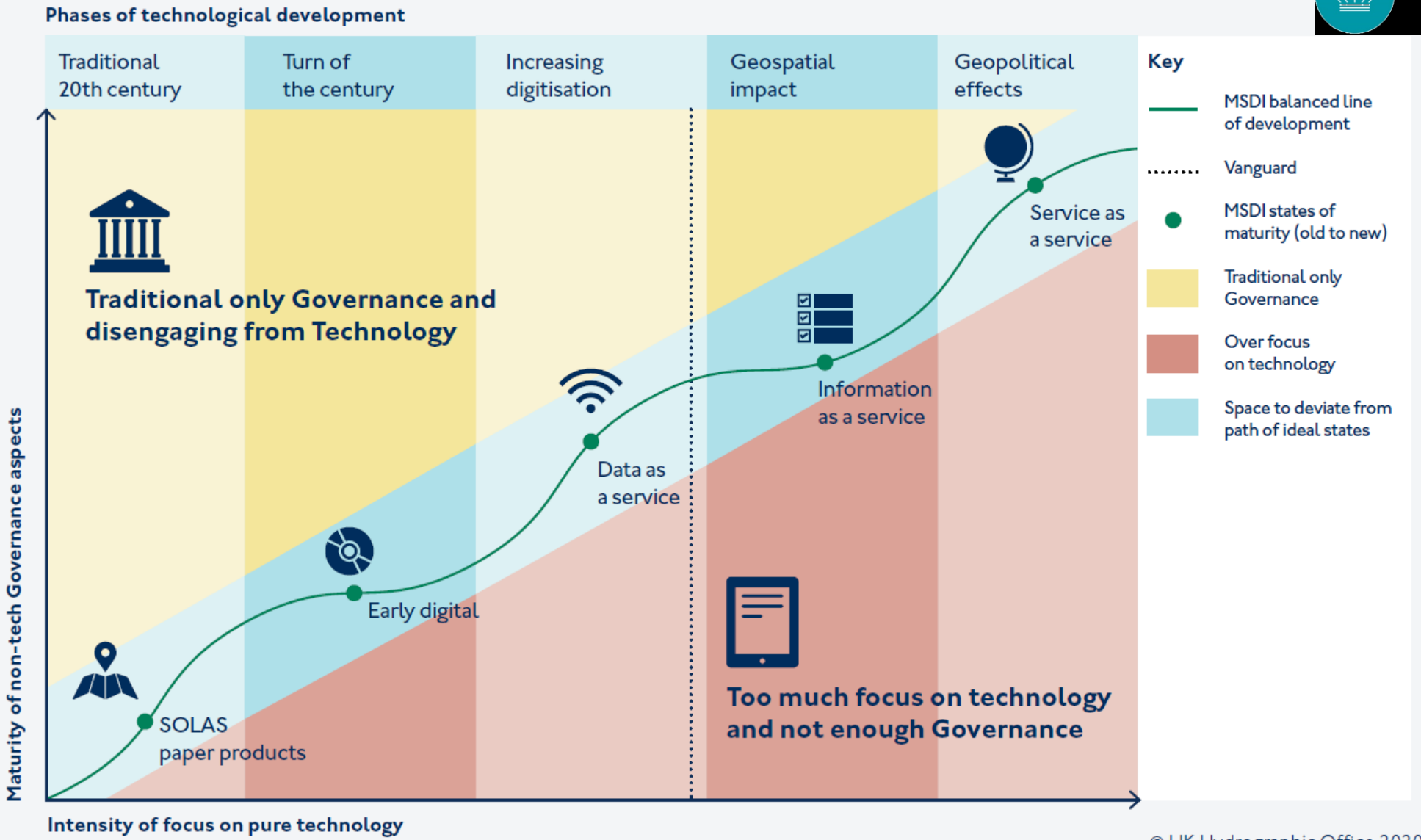
# MSDI is a Pathway, Maturity is a State

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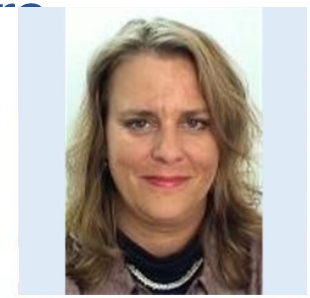
| | |
|---|---|
| Who? | For Hydrographic Offices (or national equivalents) |
| Why? | Intra and cross-agency engagement is key to success |
| What? | Alignment of an MSDI implementation with the IGIF |
| When? | Pre-implementation to early and middle stages |
| Where? | As a stepping-stone to the full IGIF-MSDI ecosystem |
| How? | Early alignment will reduce future costs of divergence |

# Authors, Contributors, Reviewers, and Facilitators

**Dr Gerald J Wong**

Co-Chair of OGC Marine DWG & OGC Planning Committee Delegate

United Kingdom Hydrographic Office



**Kathrine Kelm**

Senior Land Administration Specialist

The World Bank Group

**Jens Peter Hartmann**

Chair of IHO MSDIWG

Danish Geodata Agency, Kingdom of Denmark

**John Nyberg**

Co-Chair of UN WG-MGI

National Oceanic and Atmospheric Administration, United States of America

**Pearlyn Peng**

Co-Chair of UN WG-MGI
Vice-Chair of IHO MSDIWG

Maritime and Port Authority, Republic of Singapore

**Chee Hai Teo**

UN-GGIM Secretariat, Department of Economic and Social Affairs

United Nations

**Gregory Scott**

UN-GGIM Secretariat, Department of Economic and Social Affairs

United Nations

**Trevor Taylor**

Senior Director, Member Success & Development

Open Geospatial Consortium

**Leonel Manteigas**

Assistant Director, Coordination & Capacity

IHO International Hydrographic Organization

**Andrew Coote**

Principal NSDI Consultant

ConsultingWhere