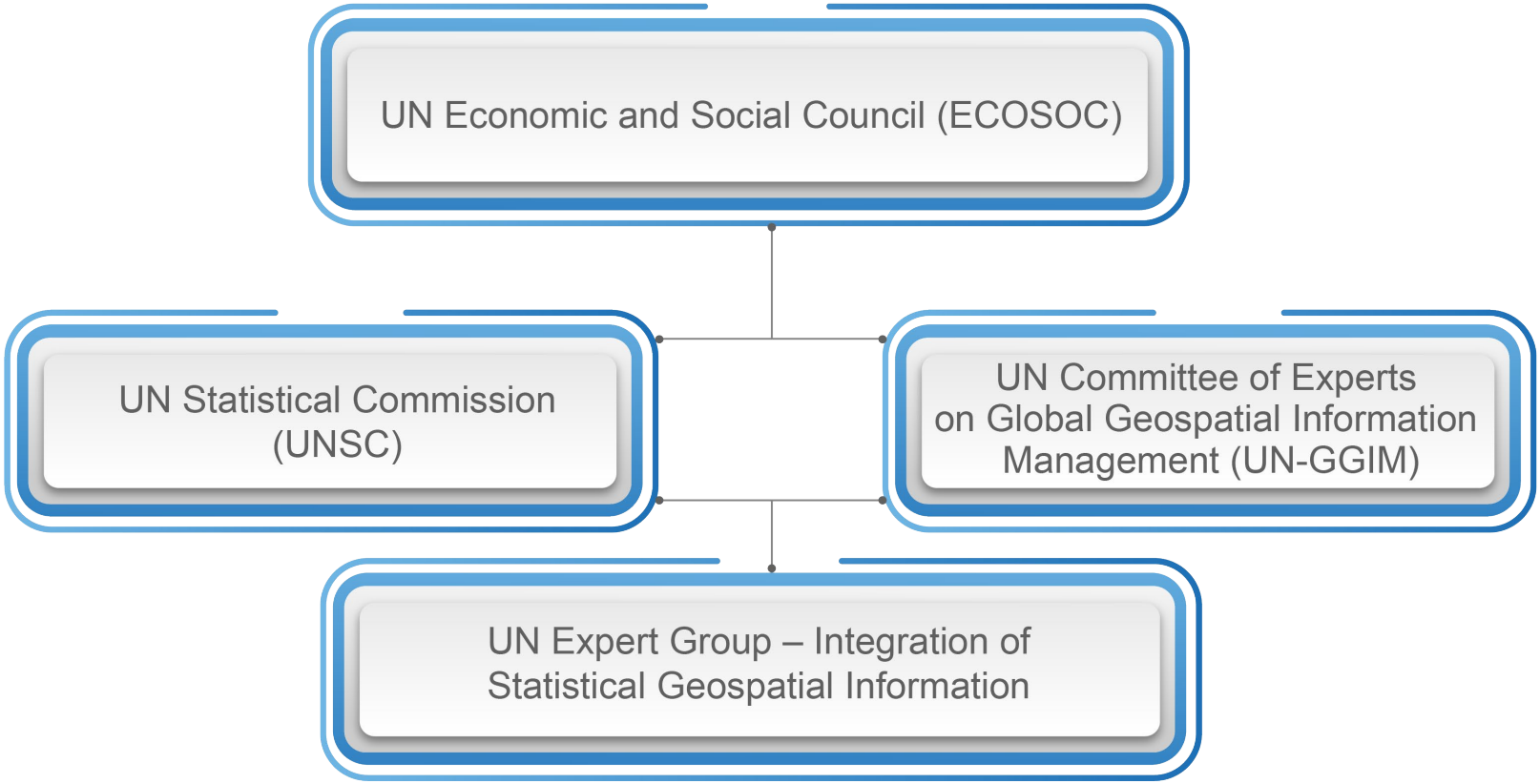
UN Expert Group for the Integration of Statistical and Geospatial Information

GGIM9
Open side event

Co-Chairs UN Expert Group:

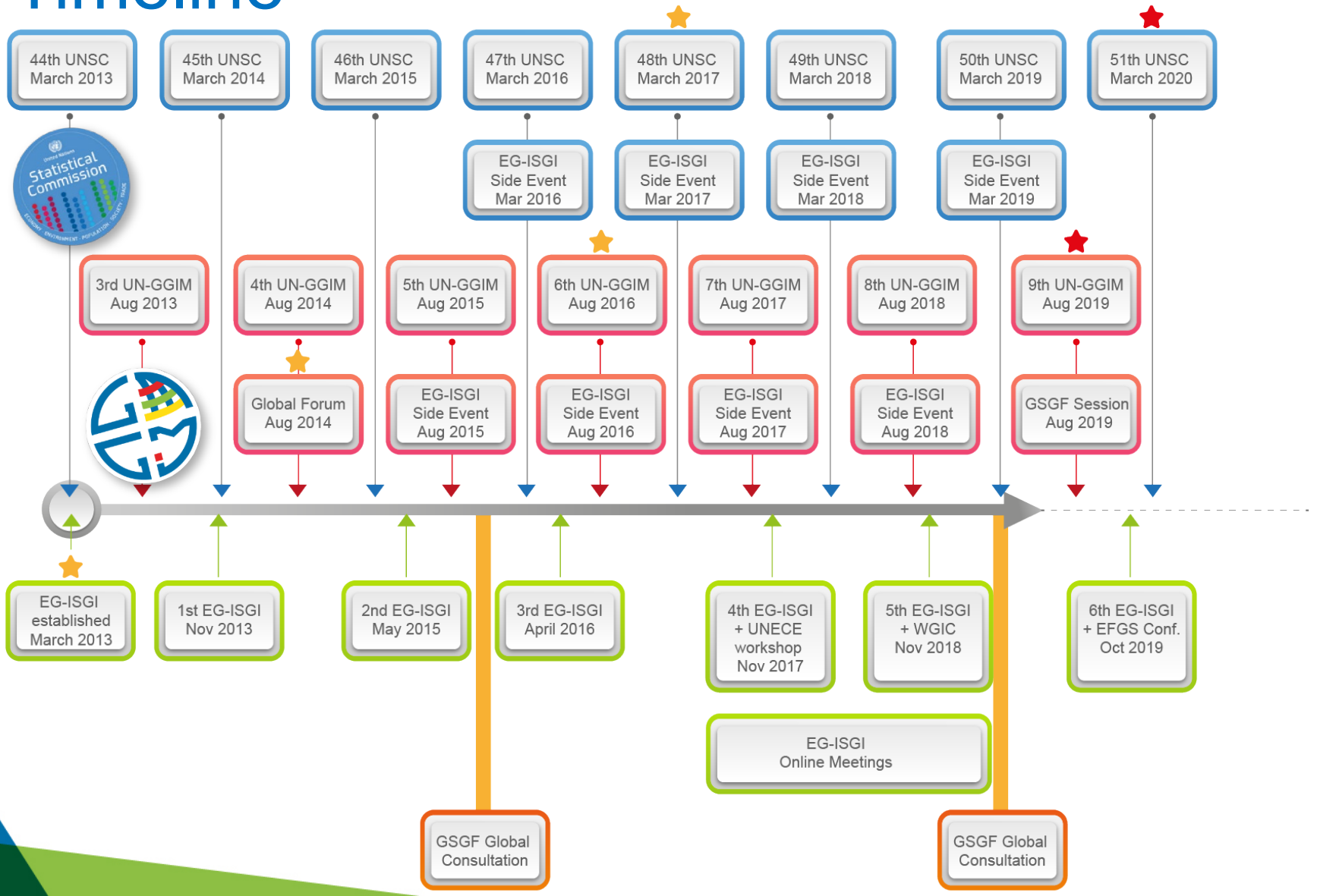
Paloma Merodio • INEGI, Mexico
Martin Brady • ABS, Australia

International Mandate

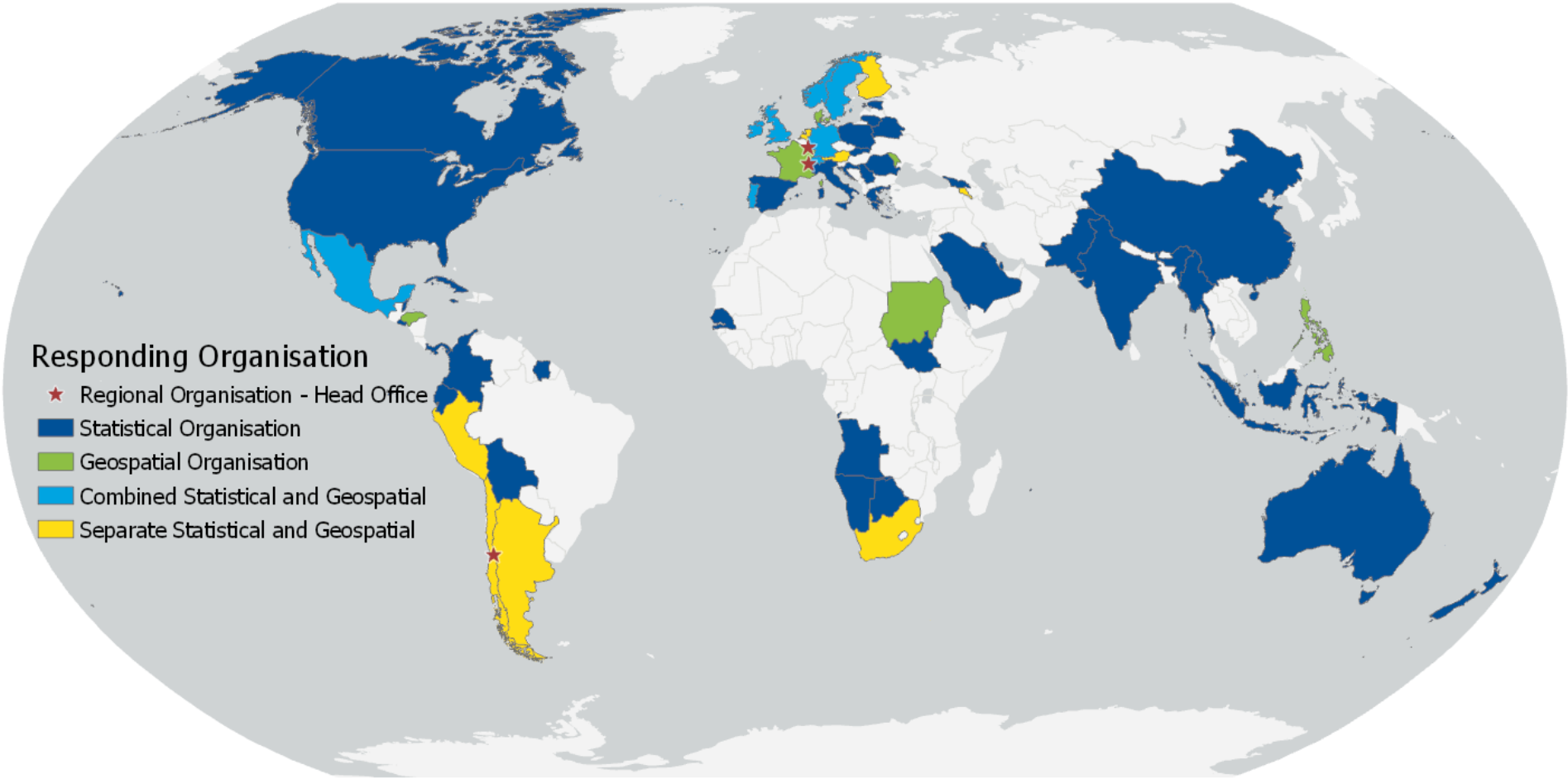


… both communities

EG-ISGI & GSGF:
Timeline

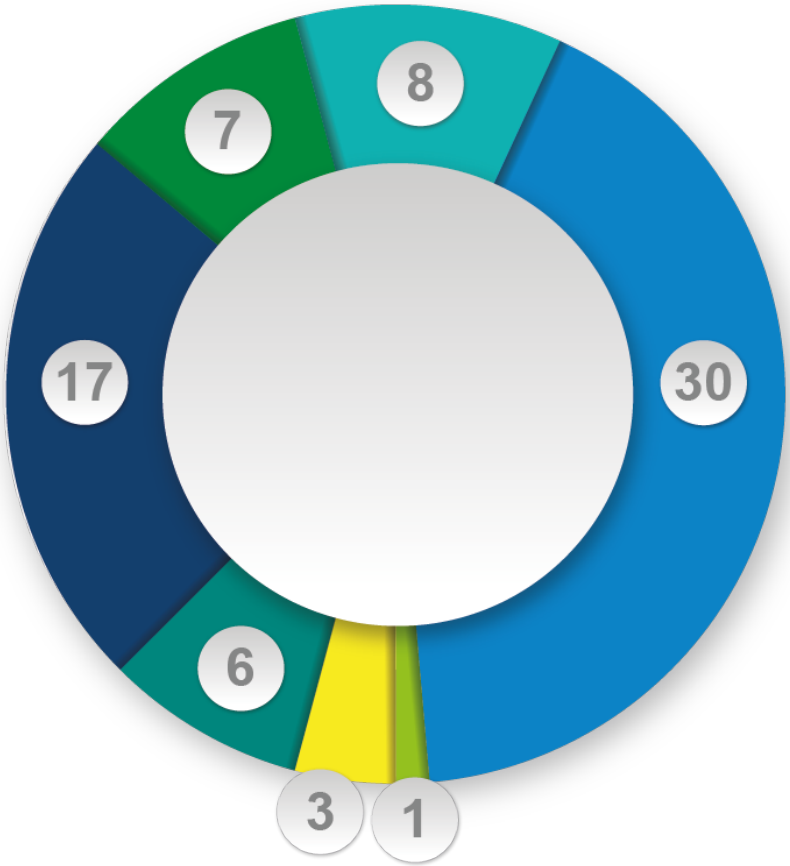


GSGF
Global Consultation



Sources: ESRI, ArcWorld Supplement, DIVA-GIS, GIS user community. Projection: Robinson

GSGF
Consultation



- Developed Geospatial
- Developed Statistics
- Developed Statistics and Geospatial
- Developing Geospatial
- Developing Statistics
- Developing Statistics and Geospatial
- Regional Organisations

EG-ISGI future plans

- Promote and support implementation of the Framework.
- Coordinate, gather, incorporate and build on the work done by other stakeholder organisations and groups to provide supporting resources to assist implementation.
- Showcase country and regional implementations and encourage collaboration to build capacity.
- Promote and support statistical-geospatial interoperability initiatives.

EG-ISGI Meeting 2019

EFGS Conference 10-11 October

GSGF
Framework document

The Global Statistical
Geospatial Framework

GSGF
The challenge set

“There is an urgent need for a mechanism, such as a global statistical-spatial framework, to facilitate consistent production and integration approaches for geo-statistical information.”

The Global Forum on the Integration of Statistical and Geospatial Information, **New York 2014**

“… develop the Global Statistical Geospatial Framework as a common method for geospatially enabling statistical and administrative data to ensure that data from a range of sources can be integrated based on location and can be integrated with other geospatial information.”

UN-GGIM, Committee of Experts, **New York 2015**

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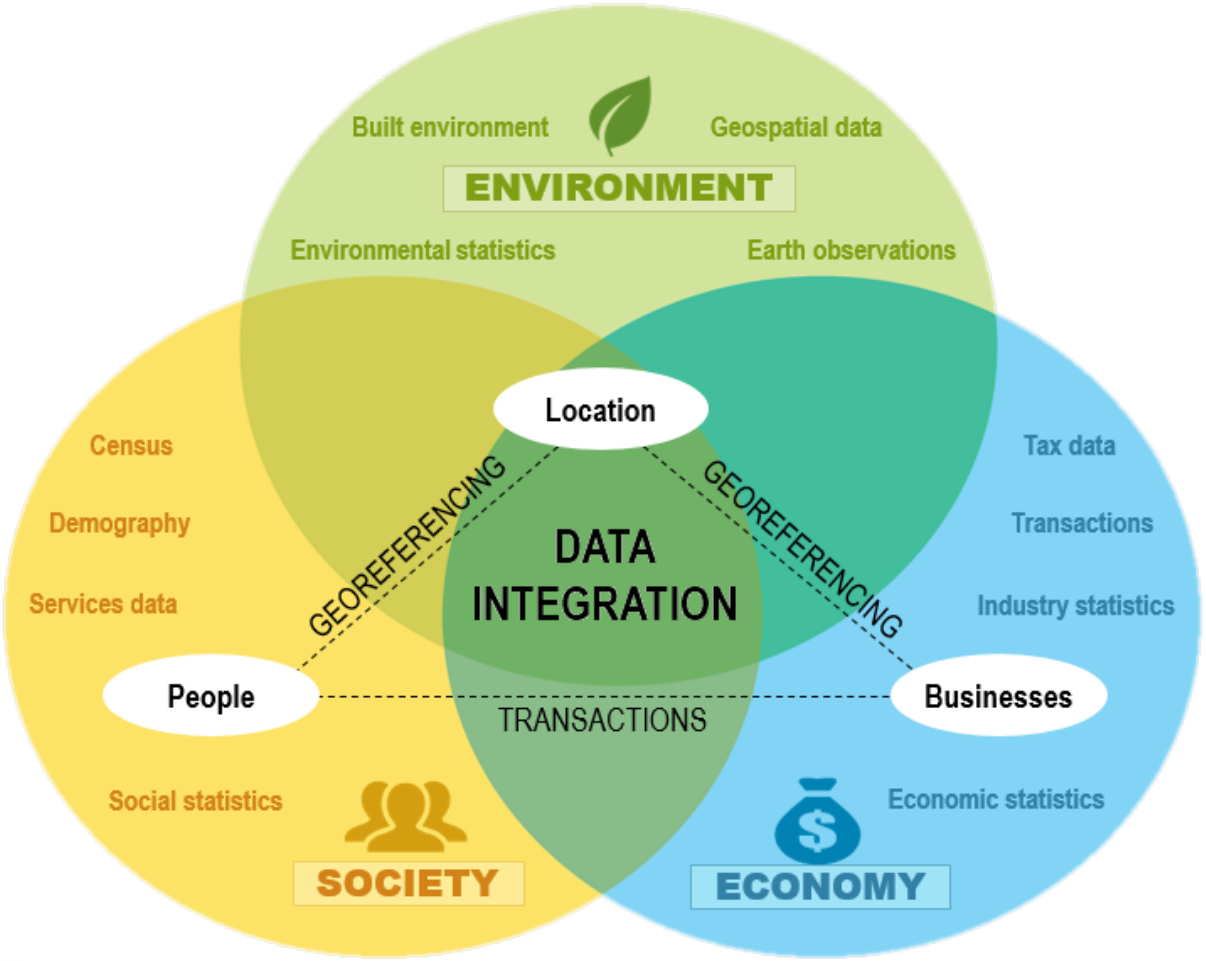
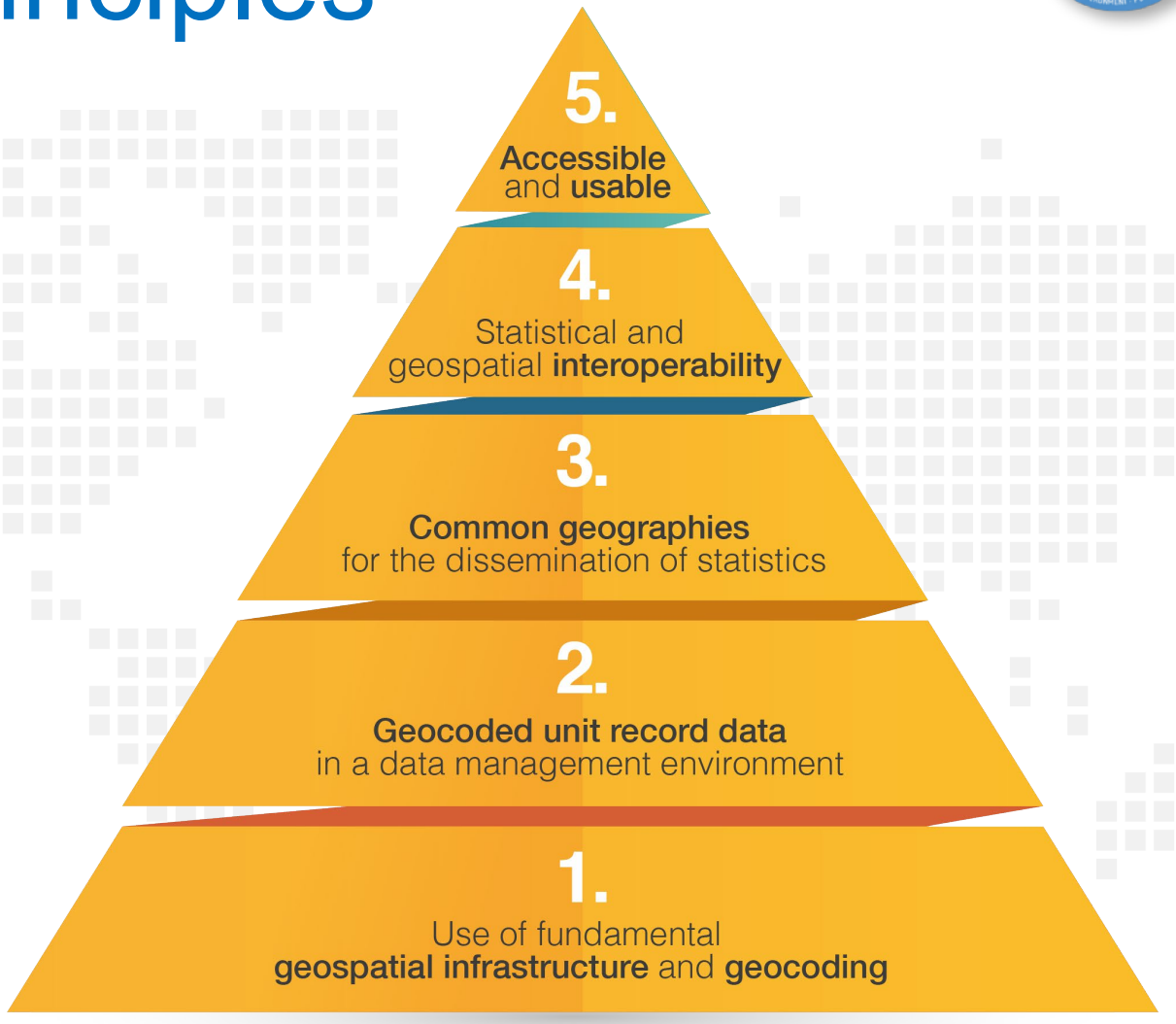
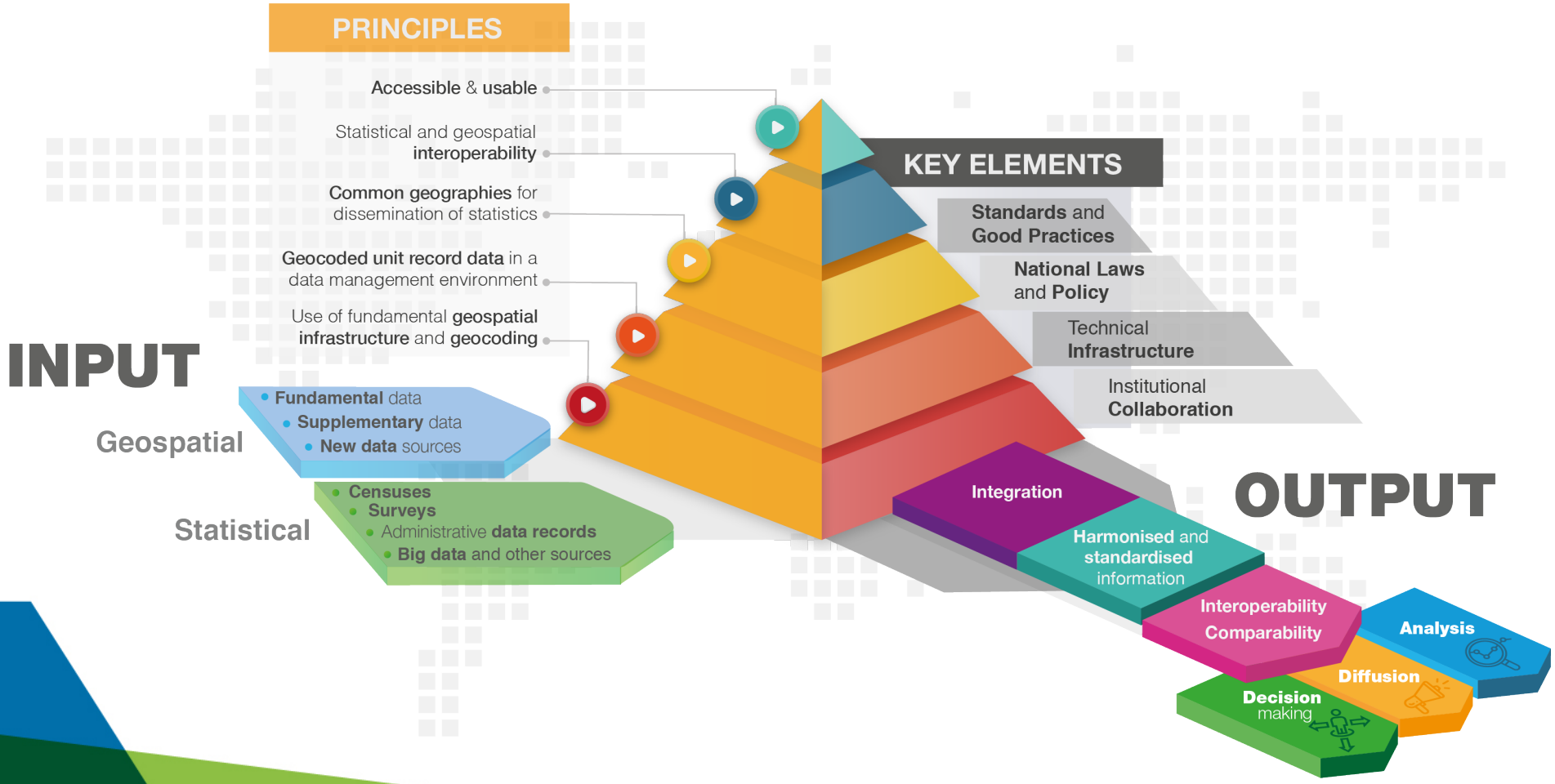
Integrating data



GSGF
5 Principles



GSGF
Full framework



Principle 1

Use of fundamental geospatial infrastructure and geocoding

1

Focuses on creation and use of infrastructure that enables the implementation and socialisation of the GSGF. It specifies the adoption of a common and consistent approach to place each statistical unit of a dataset in time and space, using fundamental geospatial infrastructure.

Principle 2

Geocoded unit record data in a data management environment

2

Supports the process of linking or storing high-precision geographic references to each microdata/statistical unit record – often referred to as geospatially enabling data. This must occur within a secure, standards-based data management environment. This process applies the infrastructure and fundamental data from Principle 1.

Principle 3

Common geographies for dissemination of statistics

3

Applies geography as a tool for aggregating and integrating data. It uses a common and agreed set of geographies for the display, storage, reporting, and analysis of social, economic and environmental comparisons across datasets from different sources. Principle 3 balances existing geographies with other geographic referencing systems, such as grids, as a basis for analysis.

Principle 4

Statistical and geospatial interoperability

4

Enables greater standardisation and interoperability of data which will lead to improved efficiency and simplification in the creation, discovery, integration, and use of geospatially enabled statistics and geospatial data. Principle 4 defines the preconditions for statistical and geospatial data to work as a data ecosystem.

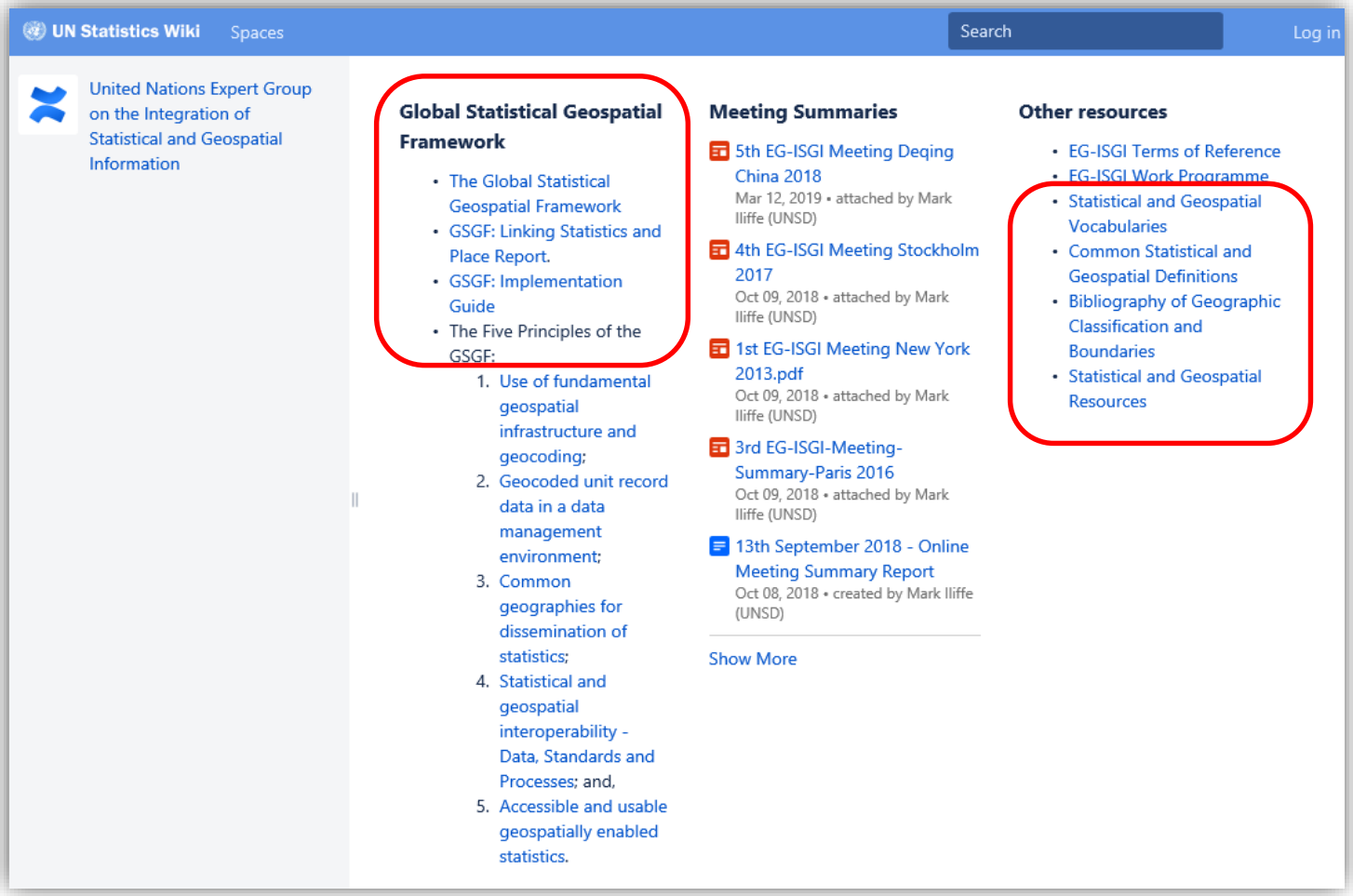
Principle 5

Statistical and geospatial interoperability

5

Supports data custodians to release data with confidence, improve the discovery and access of geospatially enabled statistics, and to support analysis and evaluation of data in decision making. It promotes the use of standard web services and linked data methods to provide dynamic, machine-readable access to these data, with the necessary assurances regarding the integrity and appropriate protection of data.

EG-ISGI Wiki



Link to wiki from http://ggim.un.org/UNGGIM-expert-group/

GSGF
Context for the future

- The Integrated Geospatial Information Framework
- Digital transformation and modernisation efforts in the statistical and geospatial communities
- 2030 Agenda for Sustainable Development and SDG Indicators
- 2020 round of population and housing censuses

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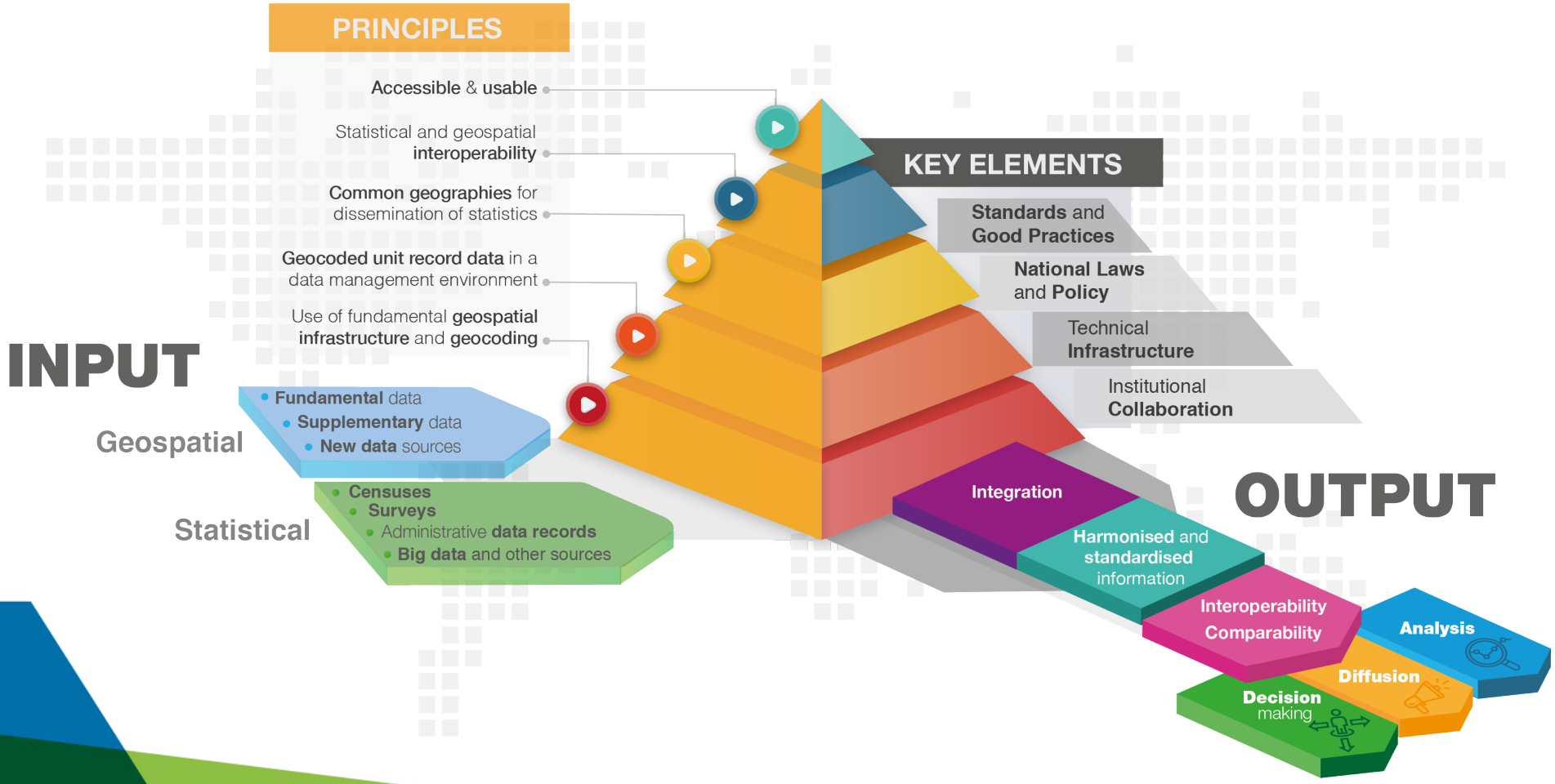
More than just data



GSGF
Framework document

The Global Statistical Geospatial Framework