

Standards enabling SDG reporting

Matthew Pennells

Global Community Engagement Director

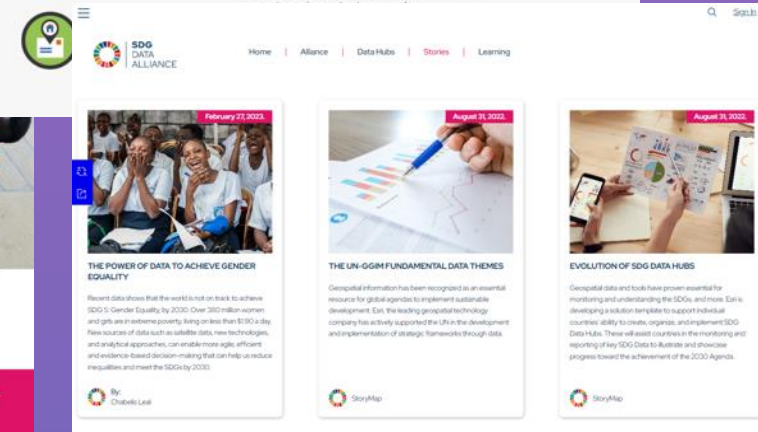
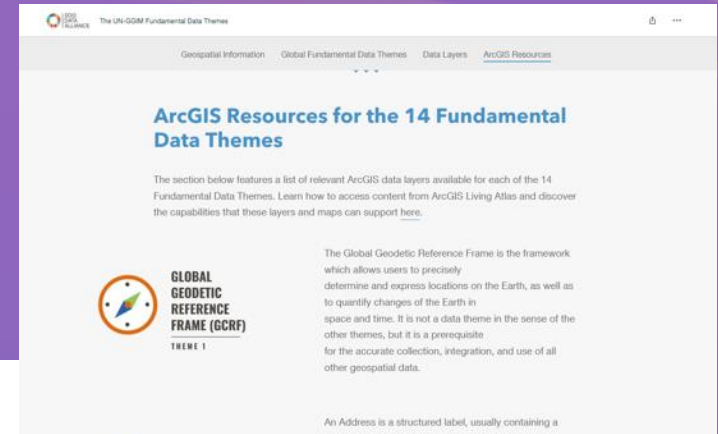
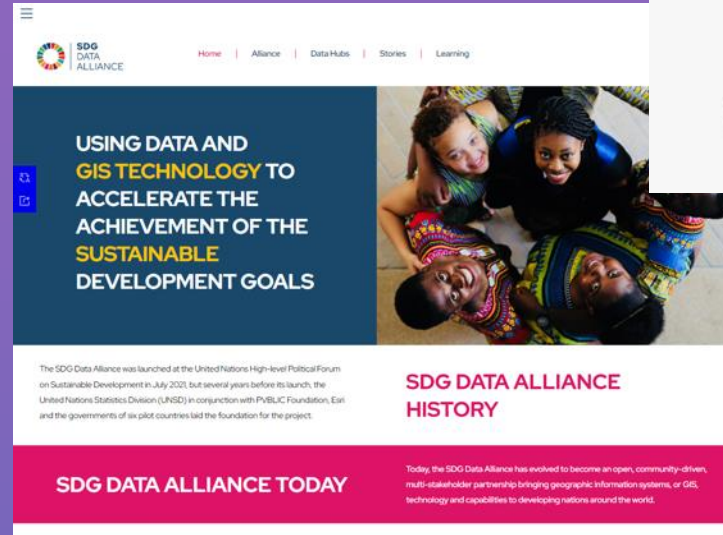
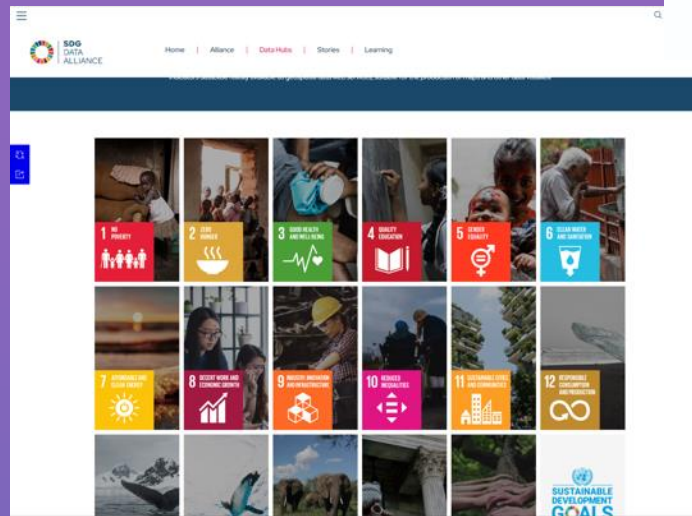
Example 1 – SDG Data Alliance

SDG Data Alliance

SDG Data Alliance



SDG DATA ALLIANCE



To learn more...

www.sdg.org

THE PARTNERS



Geo-Enabling Sustainable Development

An Interconnected System of Systems for the SDGs



GEO Blue Planet



SDSN



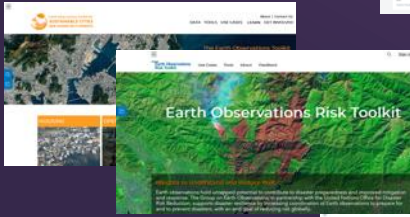
SDG Transformation Center



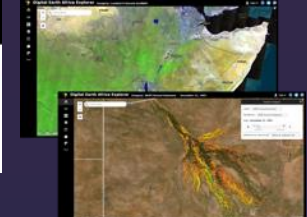
Global Council on SDGs



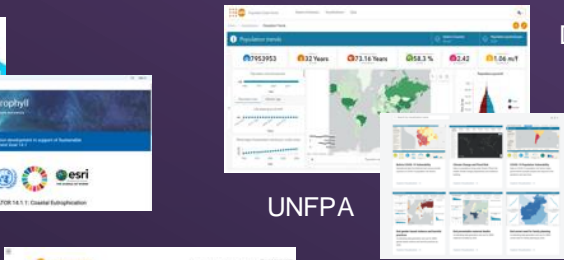
EO Toolkit for Sustainable Cities & Human Settlements and EO Risk Toolkit



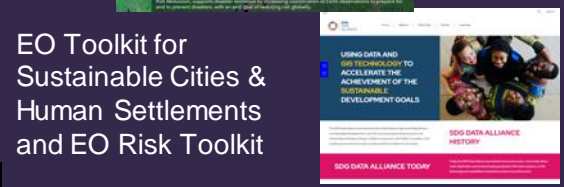
Digital Earth Africa



UNFPA



SDG Data Alliance UN HABITAT



UNEP



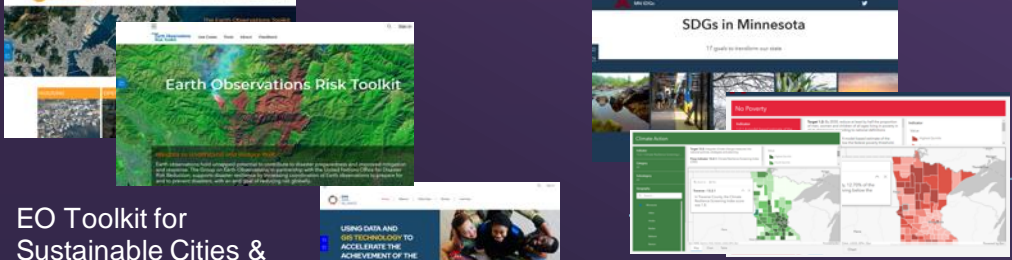
SDG Hub for the Environment



Dundrum Community, Ireland



Minnesota, USA



Guam, USA



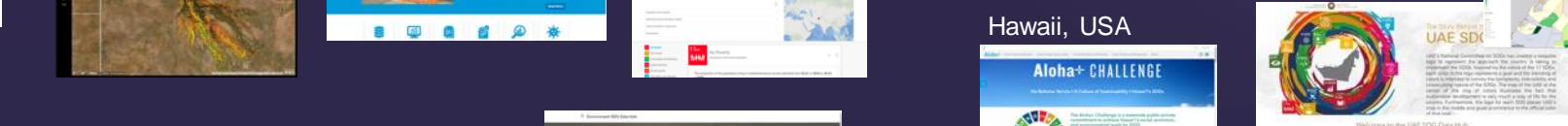
Hawaii, USA



Colombia



UAE



South Africa



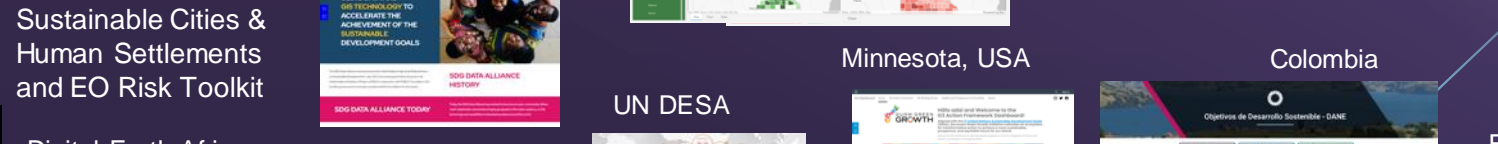
Qatar



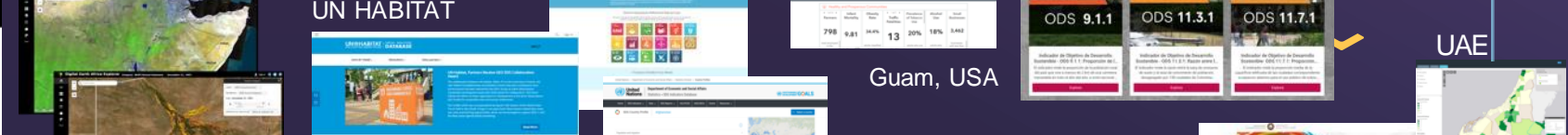
Mexico



Cameroon



Tonga



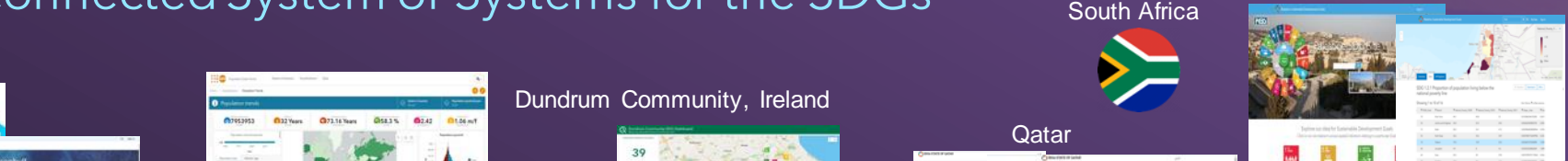
Senegal



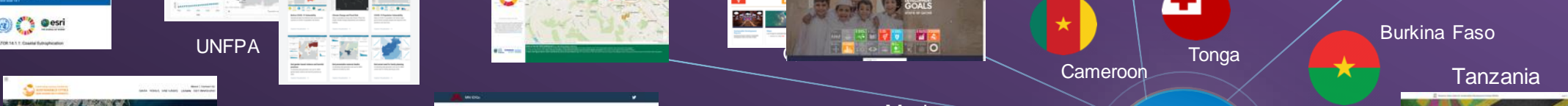
Malaysia



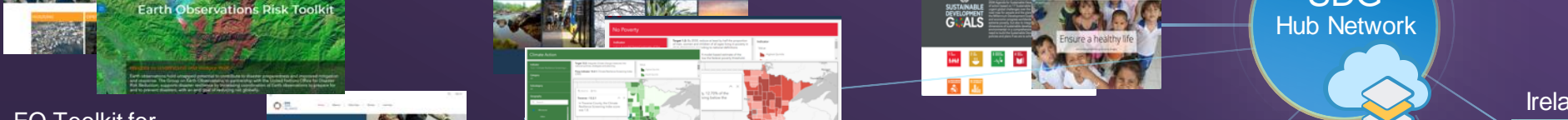
Palestine



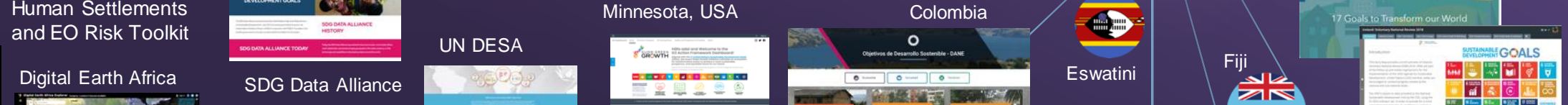
Philippines



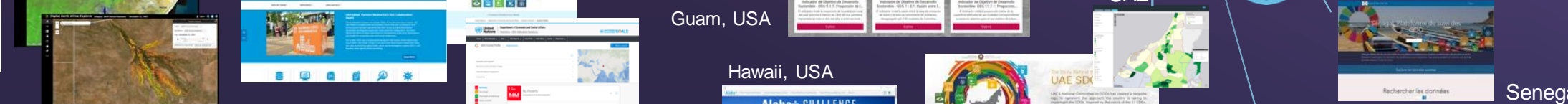
Burkina Faso



Tanzania



Ireland



Fiji



Senegal



Supporting Global Monitoring & Reporting of the Sustainable Development Goals

Example 2 – Digital Earth Africa



Digital Earth
AFRICA

A partnership and community for
African geospatial challenges

www.deafrica.africageoportal.com



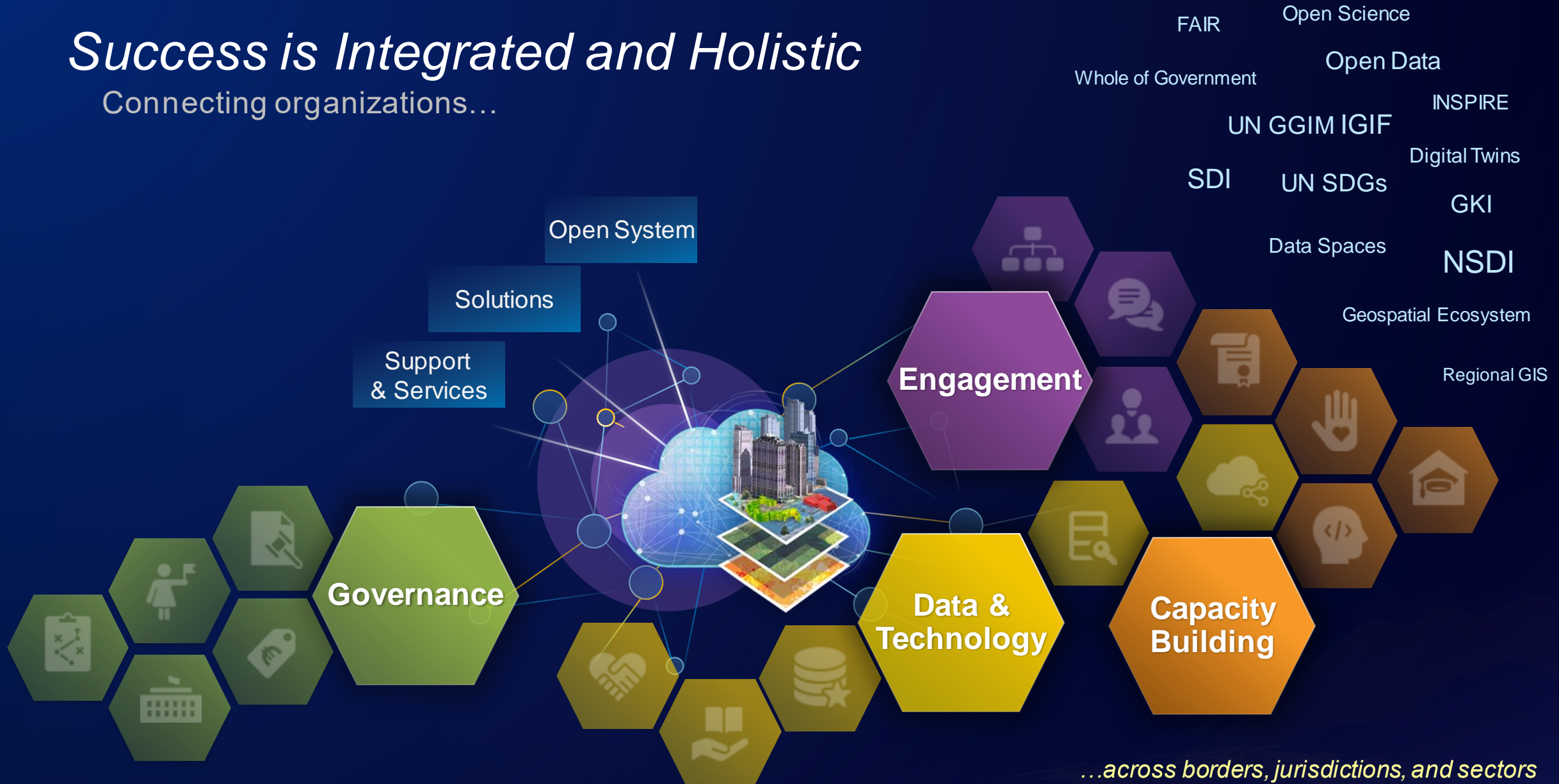


Digital Earth Africa – Coast Line Change
ArcGIS Living Atlas – Building Feature Extraction

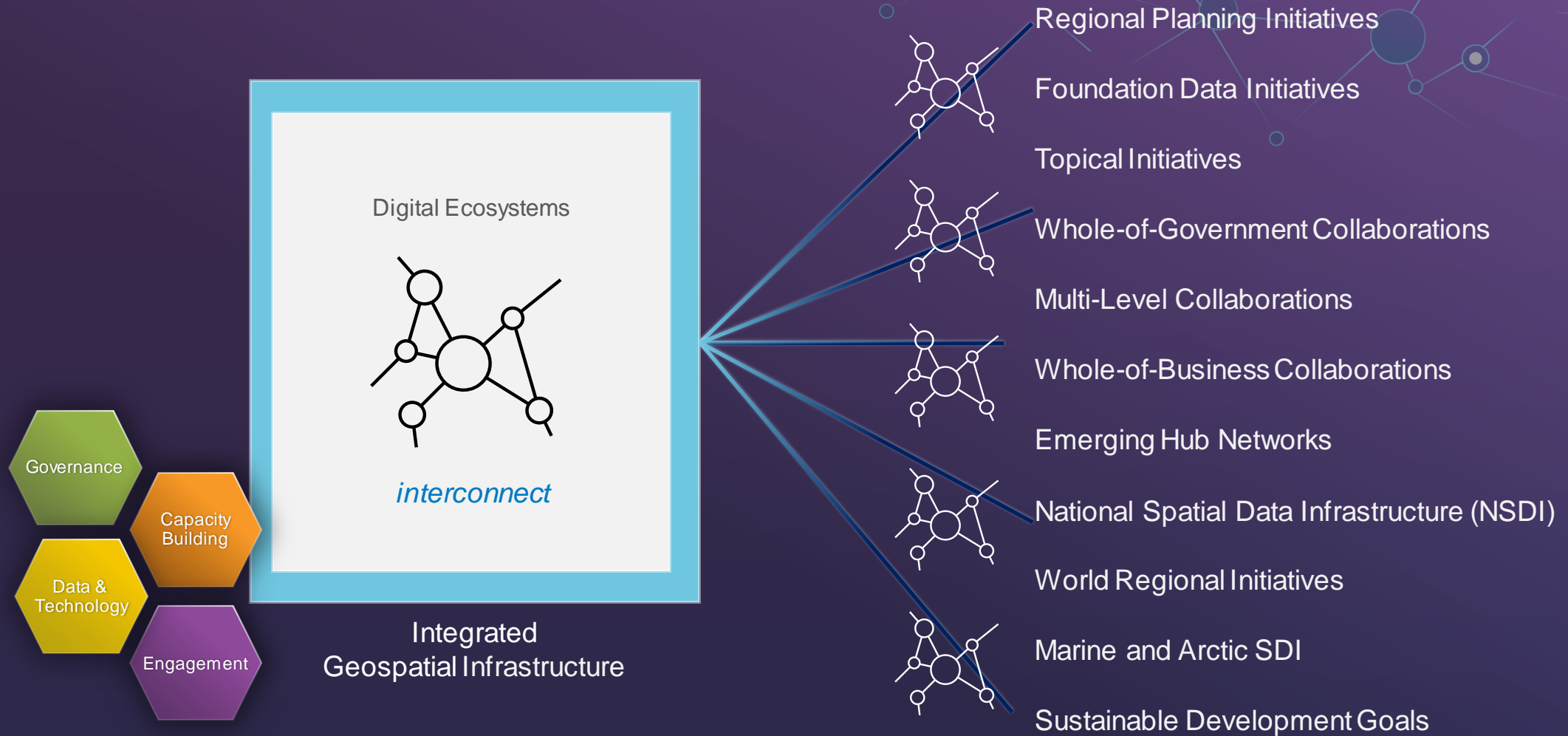
Closing Perspectives

Success is Integrated and Holistic

Connecting organizations...



System of Systems Pattern



Standards across the system

DOMAIN DATA MODELS

INSPIRE
 FGDC
 ISO LADM, ...
 IHO S-57 / S-100 series
 NENA
 SDMX
 ...

METADATA

FGDC CSDGM
 ISO 19115 / 19139
 INSPIRE
 North Am. Profile
 Dublin Core
 ...

WEB SERVICES/APIs

GeoServices REST
 OGC WFS, WMS, WMTS
 OGC API Features, Tiles,
 Catalog, Records...
 I3S
 ...

SECURITY

Trust
 Identity
 Data Sovereignty
 ...

ENCODINGS

JSON
 XML
 GML
 RDF
 ...

CATALOG & SEARCH

OGC API Records
 DCAT
 DCAT-AP
 SEO practices
 CSW
 ...

ACCESSIBILITY

WCAG
 W3C
 ...

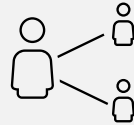
(Meta)data &
 Analytics



Web Services &
 (Meta)data



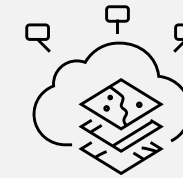
People &
 Partners



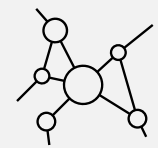
Open & Secure
 Content Catalogs



Maps & Apps /
 Tools & Solutions



Digital
 Ecosystems



produce

publish

collaborate

share

use (& reuse)

interconnect



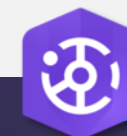
ArcGIS Pro



ArcGIS Enterprise



ArcGIS Online



ArcGIS Hub

Thank you

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mpennells@esri.com

