



A Premium Geospatial Industry Conference

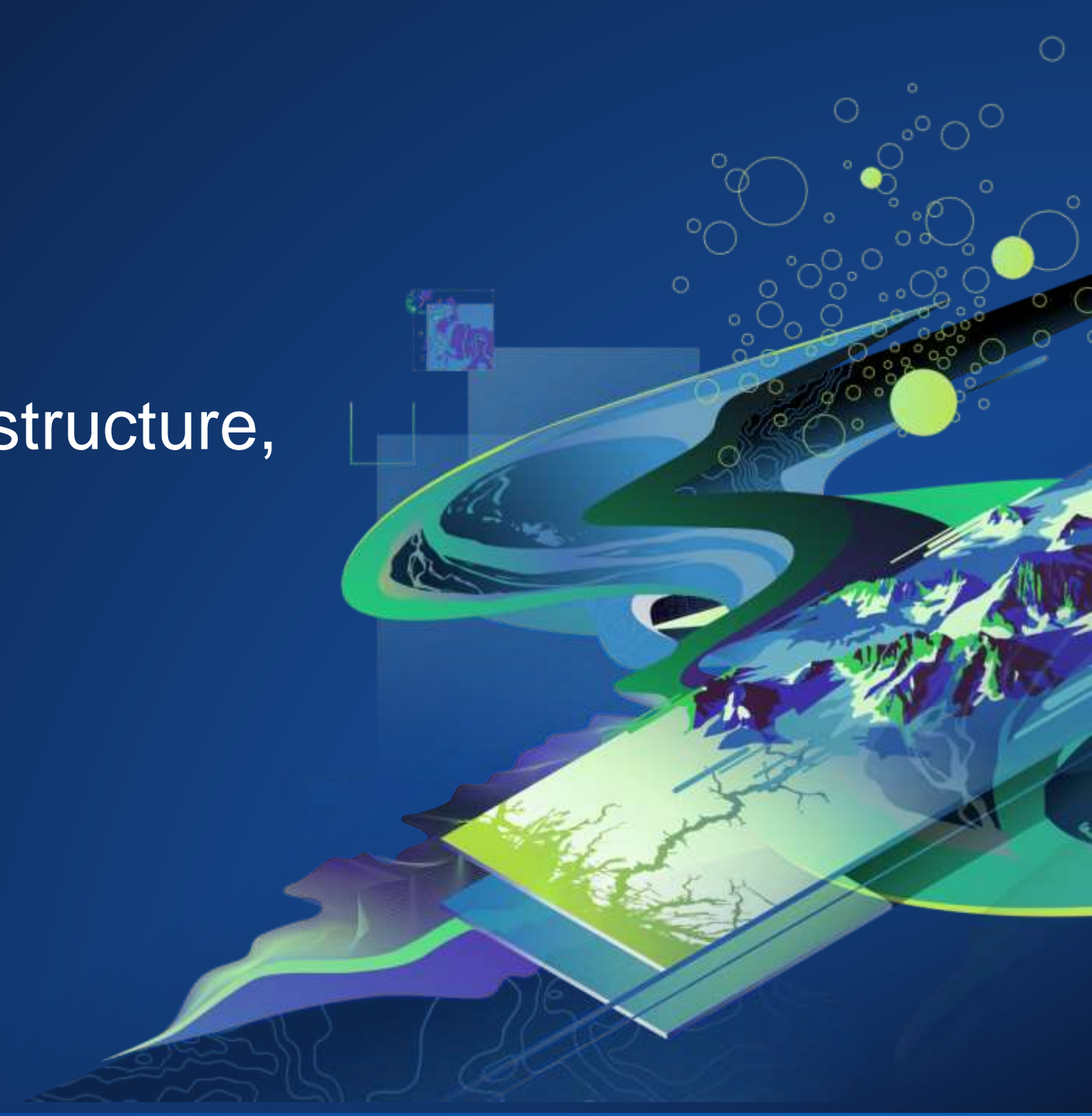
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GKI, Geospatial Infrastructure, and Open Data

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Geospatial Infrastructure/SDI/INSPIRE

2022 ESRI PARTNER CONFERENCE



Collaboration is key



What is Geospatial Infrastructure?



Geospatial infrastructure is a technology enabler of digital ecosystems

On-demand streaming web services & APIs

Evolving SDI: Integrated Geospatial Infrastructure

Expanding beyond data to knowledge and understanding



Metadata catalogs



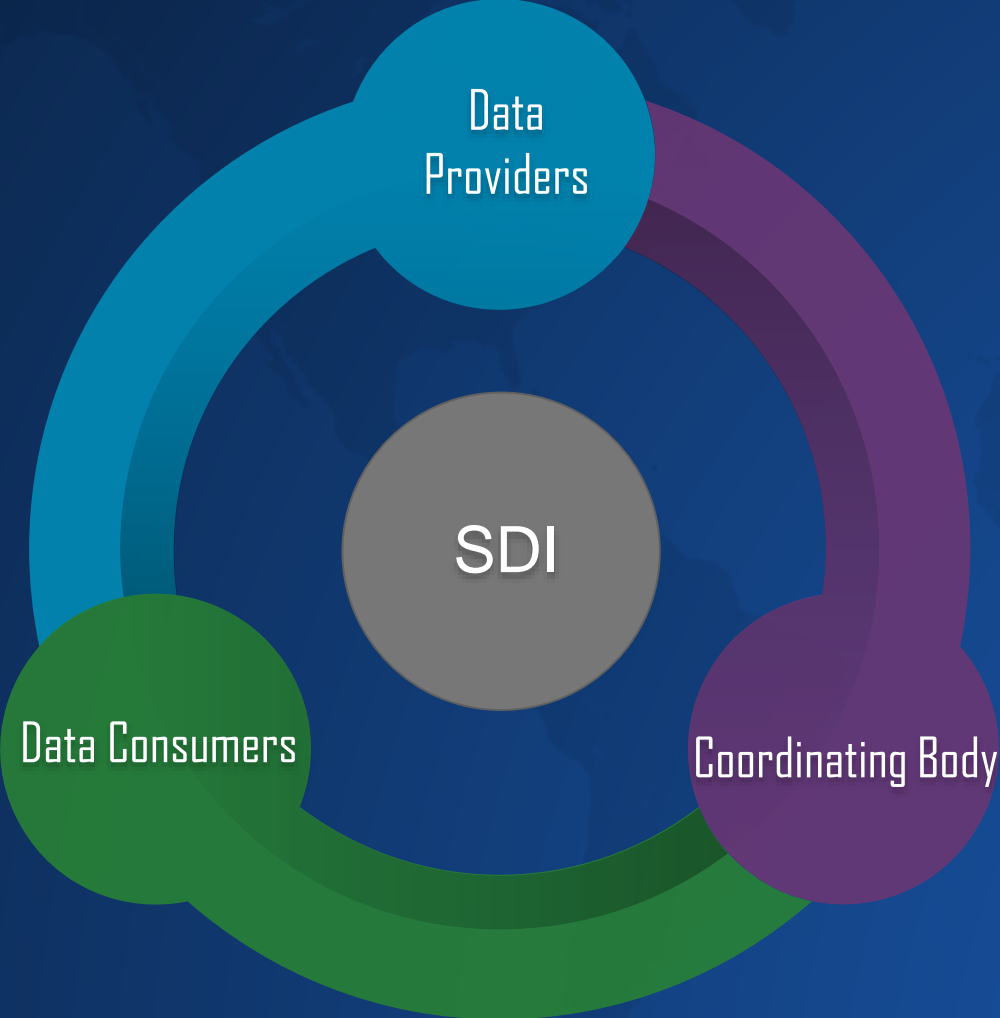
Federated portals



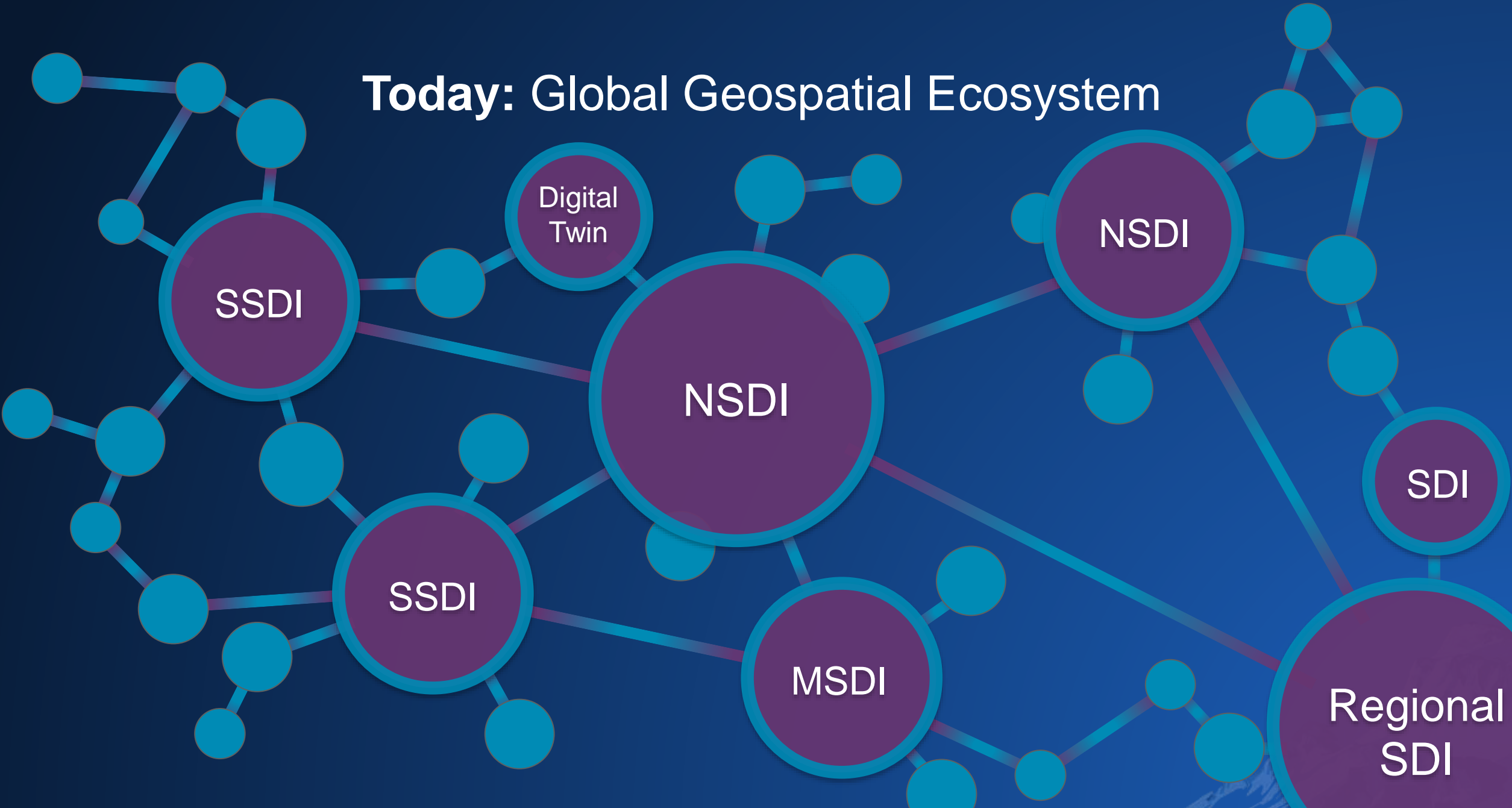
Digital ecosystems

Search & Discovery \longrightarrow Integration & Use

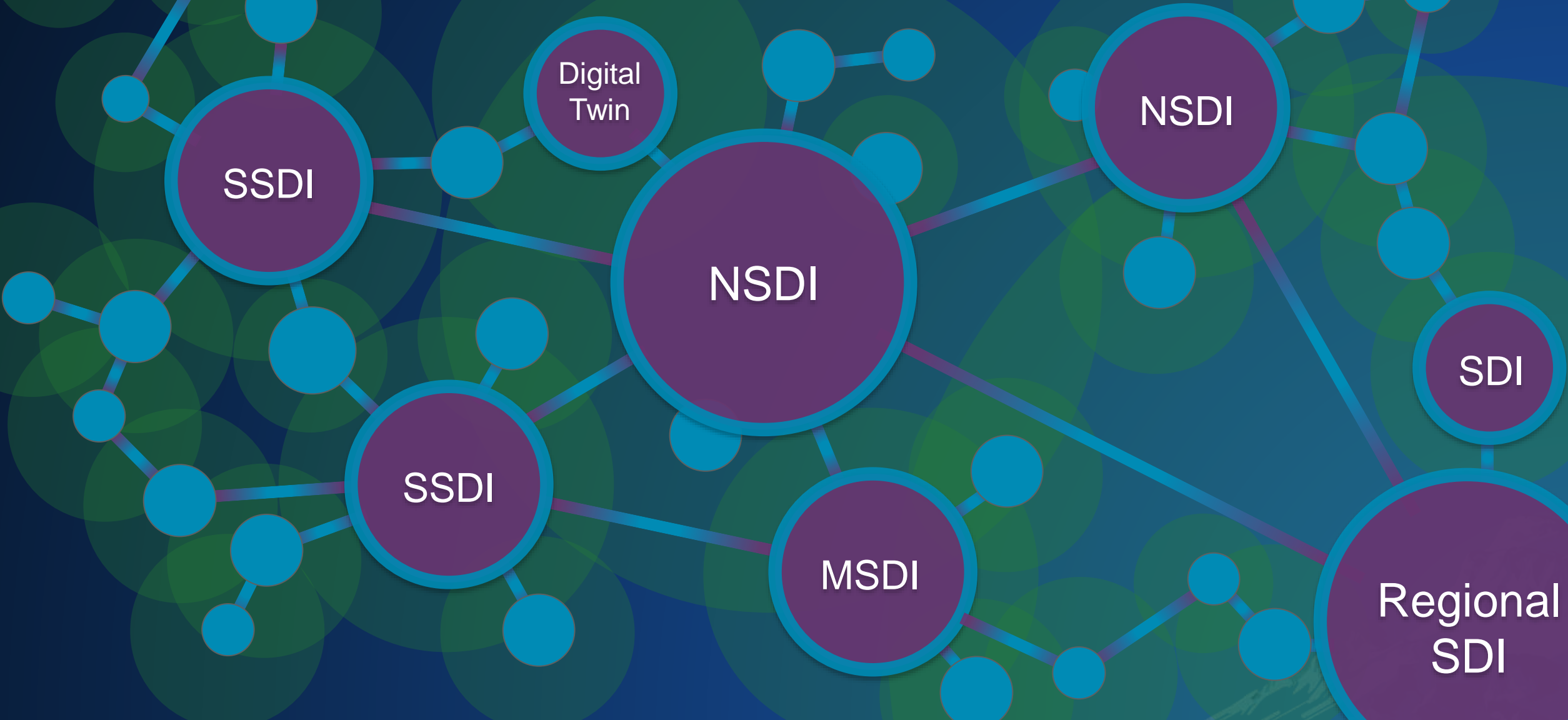
Digital Ecosystem: SDI Community of Practice



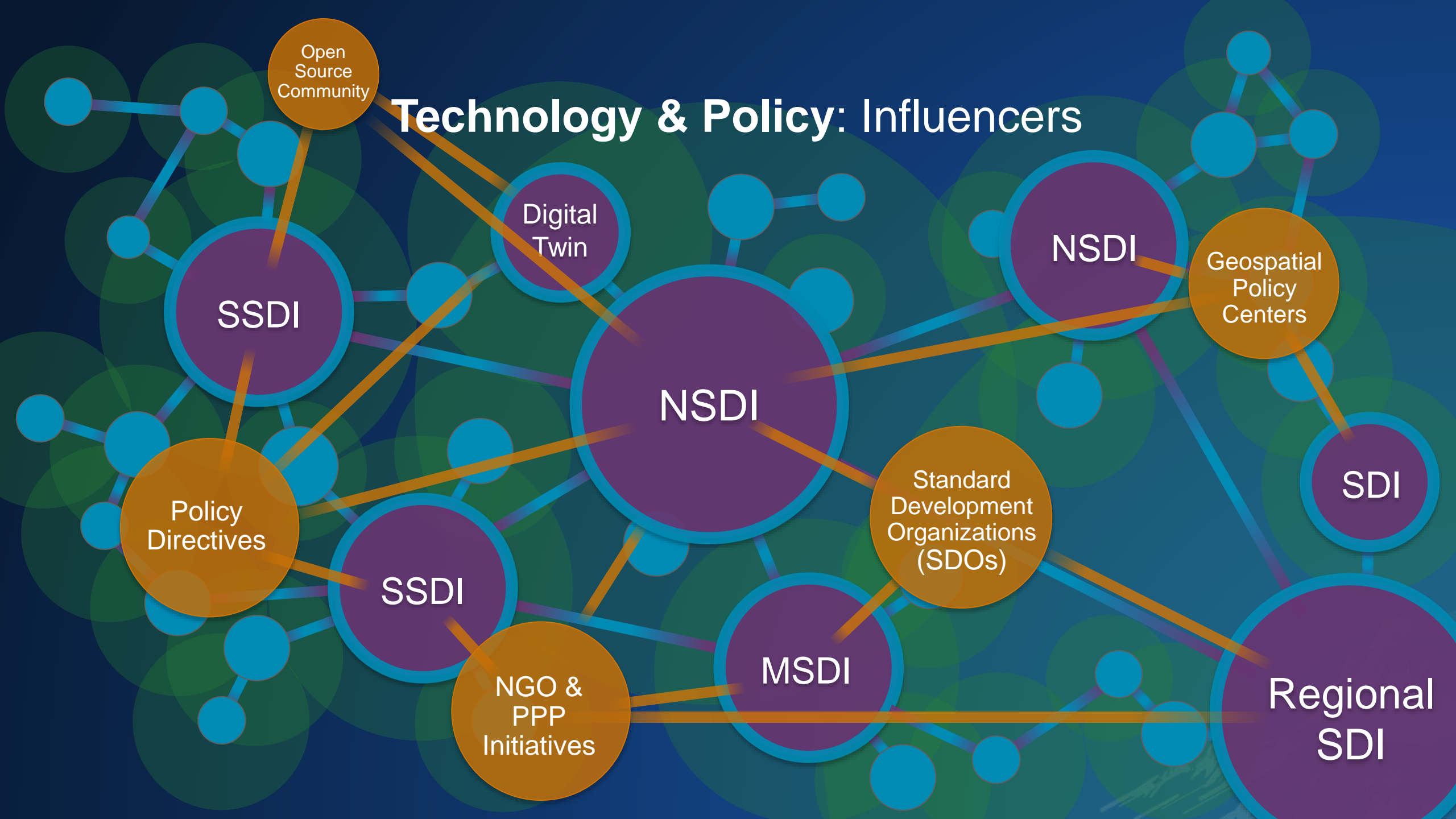
Today: Global Geospatial Ecosystem



Sphere of Influence: Data Consumers



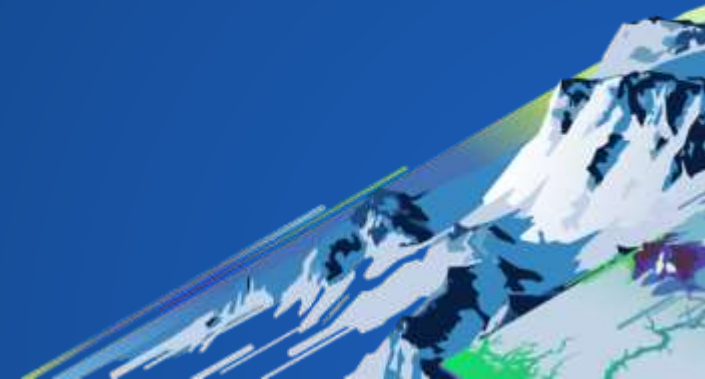
Technology & Policy: Influencers



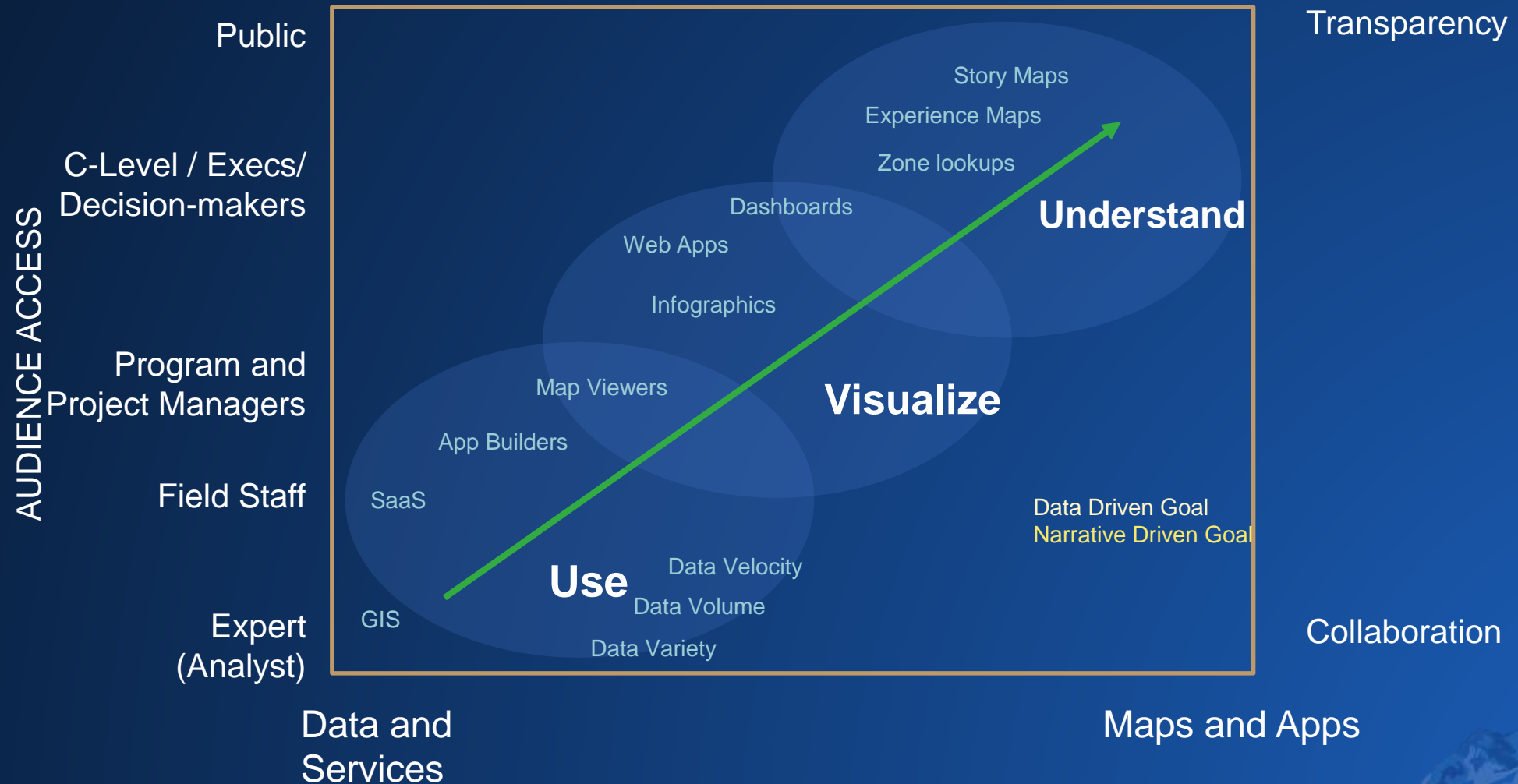
Ecosystem Approach: Integrated Geospatial Infrastructure

Whether we call it SDI, Open Data, Digital Twin, or otherwise...

- Key characteristics:
 - Multi-organizational
 - Integrated Fundamental & Operational Data
 - Interoperable (standards)
 - Collaborative
 - Focus on End Users
 - Putting Data to Use



Accessible (I mean really accessible) FAIR Data



Geospatial Infrastructure is emerging rapidly

Connecting organizations across borders, jurisdictions, and sectors

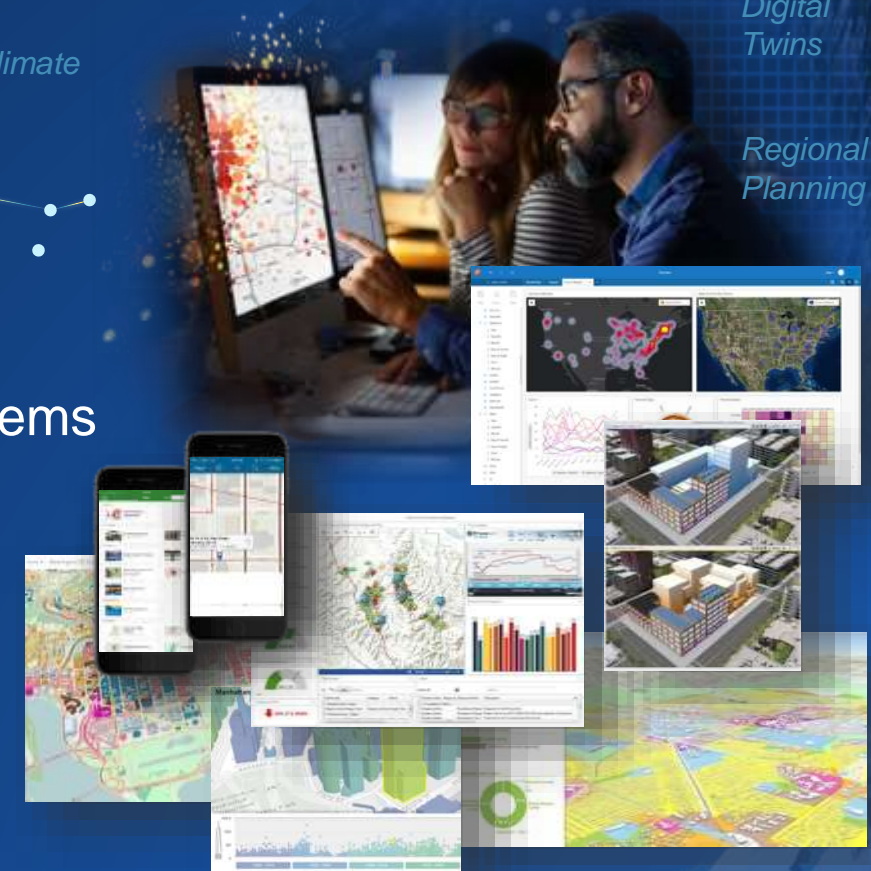
Resilience
Green Infrastructure
Disasters
Biodiversity
Economy
Mobility
Climate
Digital Twins
Regional Planning

- Authoritative Content
- Distributed / Federated
- Open & Secure
- Easily Discoverable
- Directly Usable



Standards
Metadata
APIs

Supporting FAIR principles
Findable Accessible Interoperable & Reusable



*Dynamically integrating content...
...enabling decision-ready information products*

Pattern in Practice: California State Geoportal



CA CALIFORNIA GOV STATE GEOPORTAL Organizations Featured Apps Training Get Involved FAQs

Contributing Organizations

California has long been a leader in developing authoritative geospatial data. Below is a list of the departments, boards, and offices that contribute to the CA State Geoportal.

California State Geoportal

Unlocking the Power of Government Data



CalEPA



CAL FIRE



CalPERS



Coastal Commission



Coastal Conservancy



Dept. of Child Support Services



Dept. of Conservation



Dept. of Education

<https://gis.data.ca.gov/pages/organizations>

<https://www.governing.com/next/ambitious-scheme-to-bring-all-of-a-states-data-together.html>



Guiding principles for effective Geospatial Collaboration



Amplify your Collaborative:
lead with Initiatives

- Rally people
- around goals and aspirations

Sustain your Collaborative:
reciprocate value

- Contributing partners realize the benefits of participation

Embrace Open:
make your data F.A.I.R.

- Findable
- Accessible
- Interoperable
- Reusable

Open Vision & Geospatial Infrastructure Resources

Esri's Open Vision

ArcGIS is an open, interoperable system that drives efficiency and innovation.

More on the open system

A conversation with Jack and Satish

Integrated tool for prioritizing capital projects

<https://www.esri.com/en-us/arcgis/open-vision>

Integrated Geospatial Infrastructure

Address shared challenges

Address shared challenges in geospatial infrastructure.

People and economies, disaster, and infrastructure cross borders. Our location data and technology meet cross borders, too.

How we think of traditional spatial data infrastructure (SDI) is evolving. From local and regional data repositories to the National Spatial Data Infrastructure (NSDI), the internet and cloud computing are transforming the way organizations manage data and collaborate in a system of systems.

Integrated geospatial infrastructure connects organizations across borders, jurisdictions, and sectors to address shared challenges—efficiently and effectively.

Infrastructure for our future

New patterns for modern SDI and federated Web GIS are breaking paradigms from hierarchical to interconnected networks of collaborating partners.

<https://www.esri.com/en-us/arcgis/integrated-geospatial-infrastructure>



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