



"...the current use of geospatial information under the SDI structure often falls short of the project's original intention."

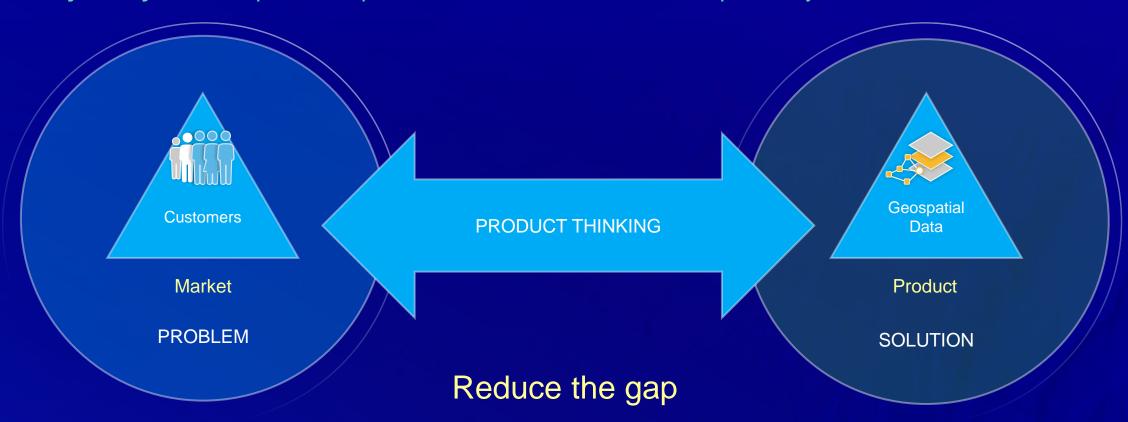
Tim Trainor, 2023 ArcNews

consultant to the United Nations (UN) and former chief geospatial scientist for the US Census Bureau



# What is Product Thinking?

The **journey** from the problem space of the users to the solution space of your business.



# Why is product thinking important?

"the only thing that matters for a new startup is getting to a product-market fit" - Marc Andreessen



The goal of geospatial product thinking is to deliver geospatial products that address market needs



### Trend / Expanding customer base



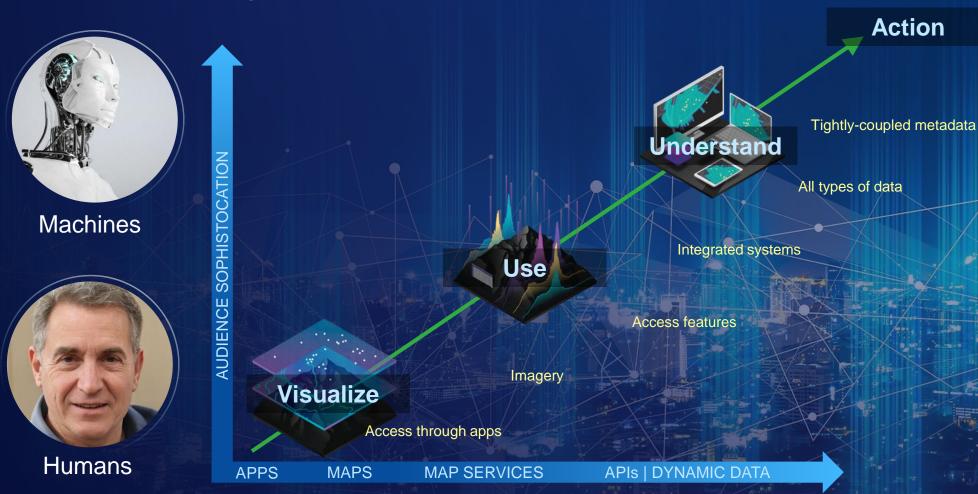
Machines



Humans

- Al Assistants / ML
- Digital Twins / Smart Cities
- Sensors
- Systems / Data Spaces / Ecosystems
- Data Intermediaries / Open Data / SDIs
- Developers
- GIS Analysts
- Professionals (e.g., AEC)
- Cartographers
- Decision-Makers
- Engaged Public

### Trend | Expanding requirements



#### How do you treat data as a product?

Two simple techniques of user-centric design

#### **Capture requirements**

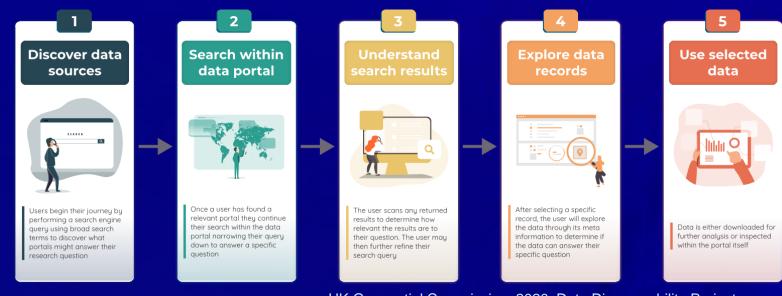


AS AN: AEC Professional

I NEED TO: Find current mobility data for my study area and it to my CAD drawing.

**SO I CAN:** Provide context for our work.

#### **User journey**



UK Geospatial Commission, 2020. Data Discoverability Project https://www.gov.uk/government/publications/finding-geospatial-data/finding-geospatial-data



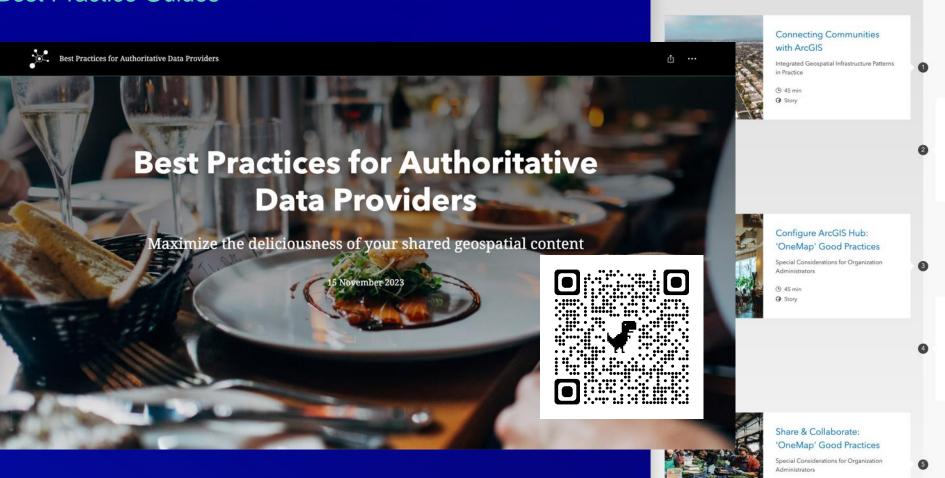
# Ready-to-use data

For discovery and reuse

- Easy to use, self-describing, interoperable, and licensed for reuse.
- Easy to find, search engine optimized, and discoverable in a self-service global ecosystem.
- Easy to understand, symbolized, and configured for quick visualization.
- Relevant, analysis-ready data, enabling access to quality features with well-documented attributes and key fields for joining with other data.
- Reliable, persistent, and optimized for scalability and performance.
- Accessible in various forms that serve broad audience requirements, including humans and machines, via APIs, downloads, and user-friendly applications for non-technical users to explore.

### Implementation Resources

**Best Practice Guides** 



Essential Guides for 'OneMap'

### Administrators

Products Industries Support & Services Stories

infrastructure/modern SDI with ArcGIS.

#### Configure ArcGIS Online: 'OneMap' Good Practices

Special Considerations for Organization

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#### Good Practices for **Authoritative Data Providers**

Maximize the deliciousness of your shared geospatial content

3 Story



'OneMap' Hub Template: How-To Guide

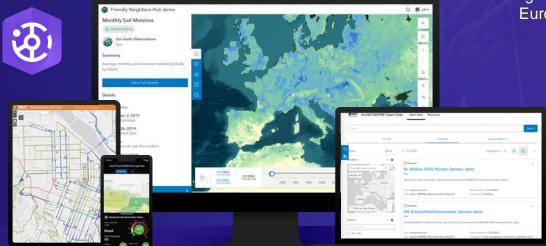
Your Guide to taking action with this initiative



# Maximizing discoverability and reuse Supporting success with the Open Data

- Sharing, collaboration, and engagement system
- Providing dynamic data and downloadable data
- Applying open standards and best practices for the web

**ArcGIS** Hub



Dynamic data and APIs

Highly performant and scalable data -European region hosting

Explore, filter, and download multiple formats

FAIR+ quality, ready-to-use data layers

Metadata - ISO, INSPIRE ...

Federate open data catalog standards

Search Engine Optimization (SEO)

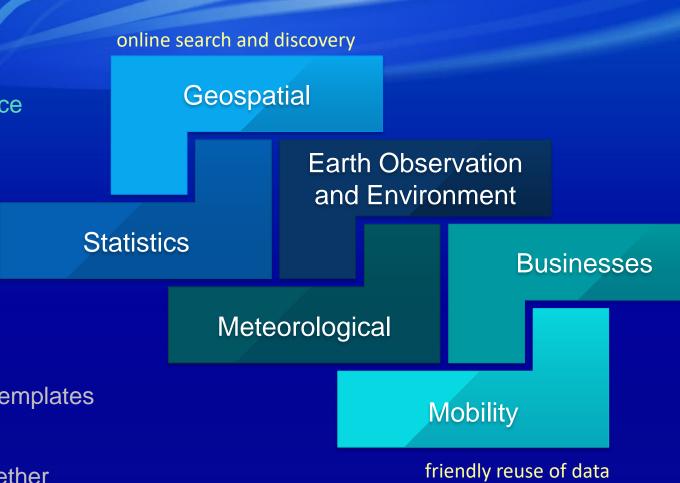
"How we access, process, and reuse data significantly influences technological development and improves our daily lives. The Open Data Directive empowers European users to find solutions and enact data-driven policy to address challenges, from local to global."

Jack Dangermond, Esri founder and president

### Supporting HVDs

From INSPIRE to the Green Deal Data Space

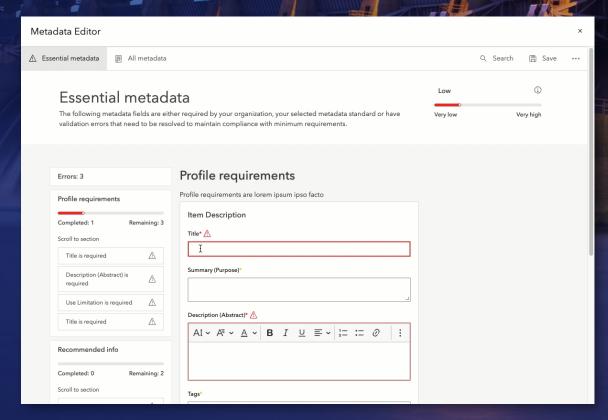
- Sharing Open Data
  - API Access
  - Downloadable data
- High-Value Datasets (HVD)
  - INSPIRE streamlined and default data templates
- INSPIRE Metadata
  - Closely coupled data and metadata together
- Federate with open data registries
  - DCAT-AP catalogue feeds
  - Automatic transformation of INSPIRE Metadata



# Making it easier to create high-quality Metadata

Supporting next-generation search and discovery

- Unified experience across ArcGIS
- Editing *Essential metadata* for required and suggested elements
- Editing All metadata for robust documentation
- Low-touch experience
- Enhanced workflows
- Search elements and values



ArcGIS unified metadata editor

