



ArcGIS Online, Portal & Interoperability

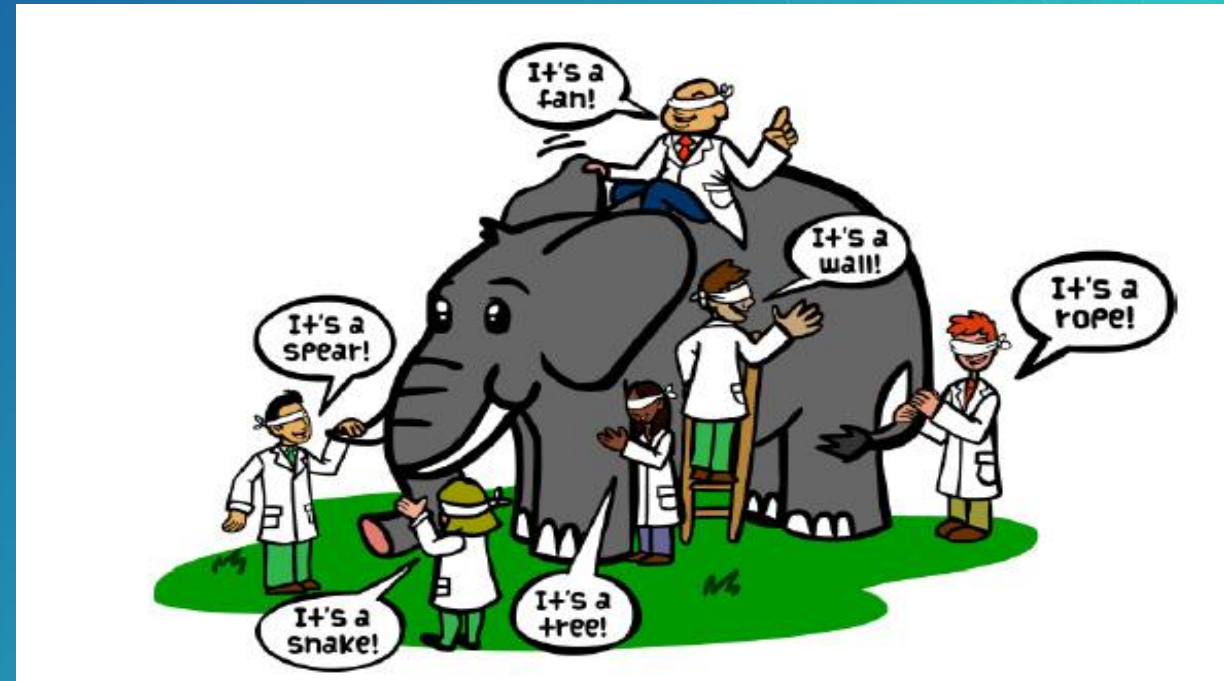
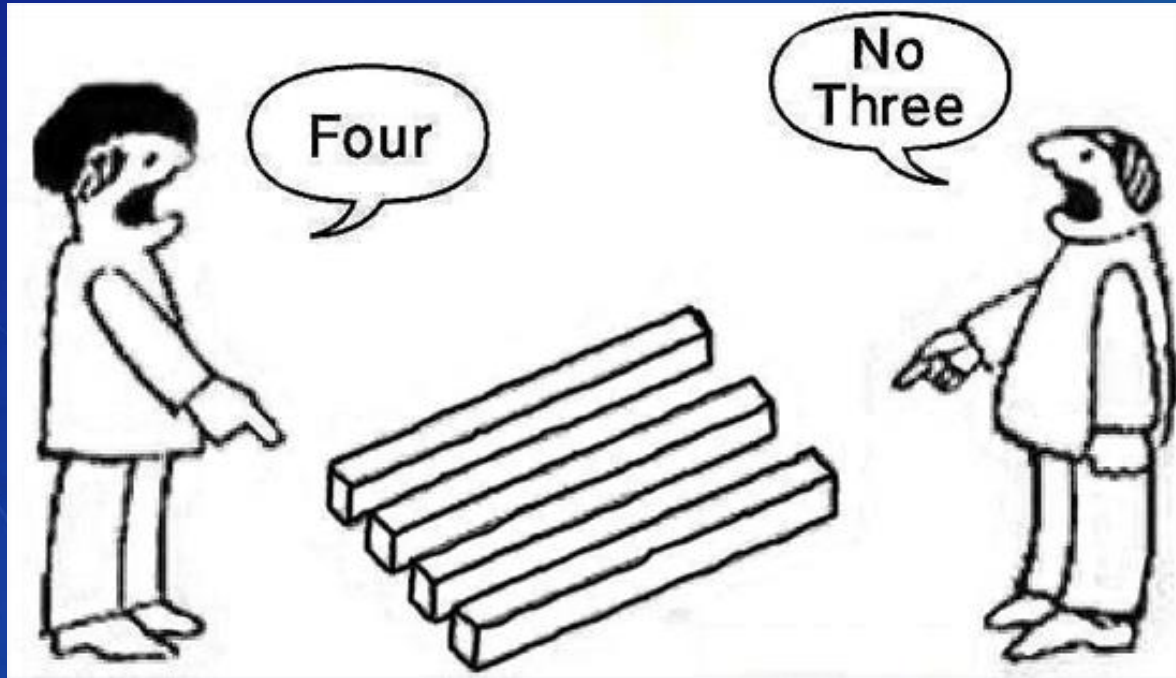
Satish Sankaran

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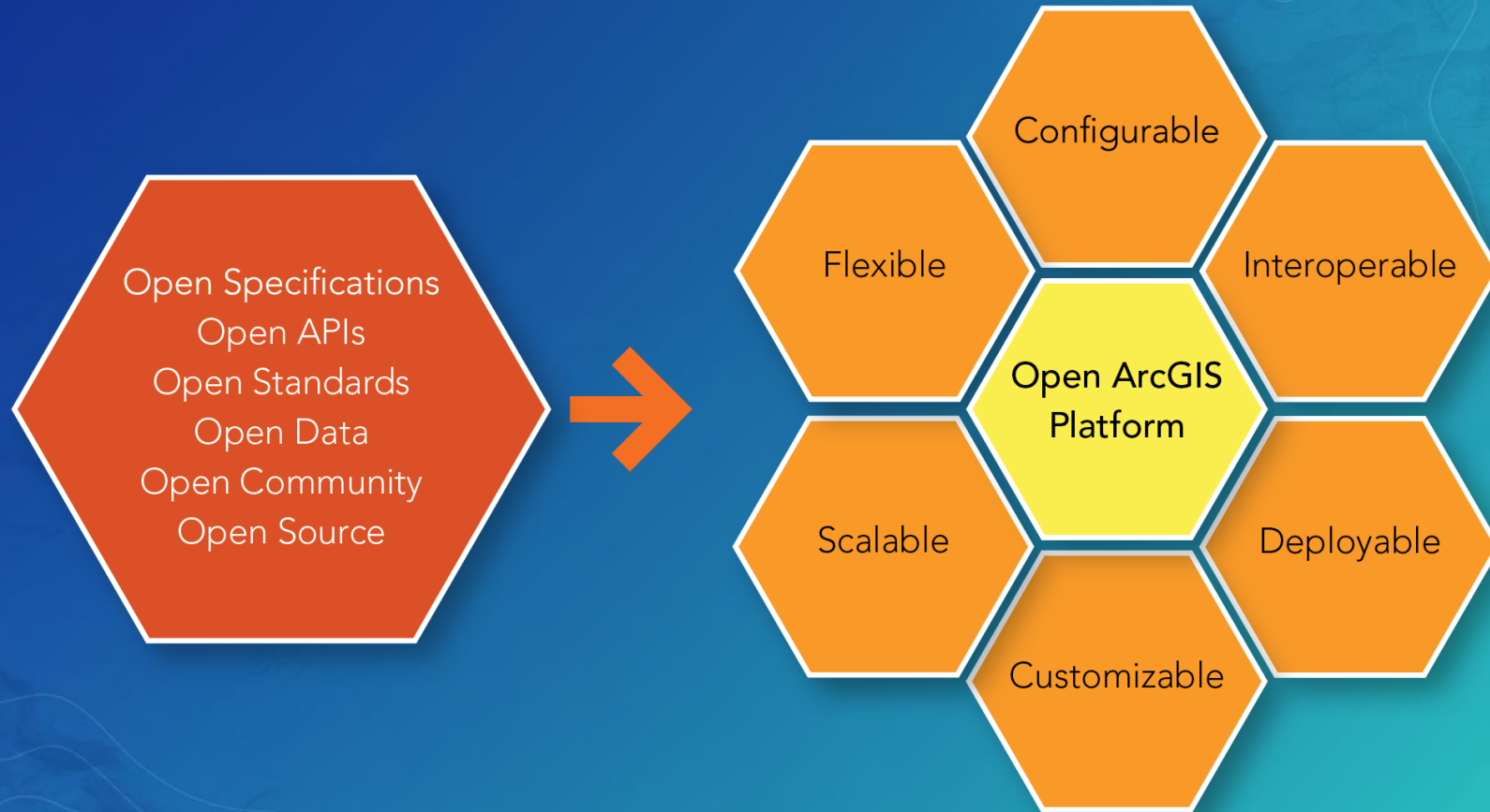
Open Systems and Interoperability

- **interoperability** is the ability of different information technology systems and software applications to communicate, exchange data, and use the information that has been exchanged.
- **Open** systems are computer systems that provide some combination of interoperability, portability, and open software standards.

What is Open ? The many meanings of Open



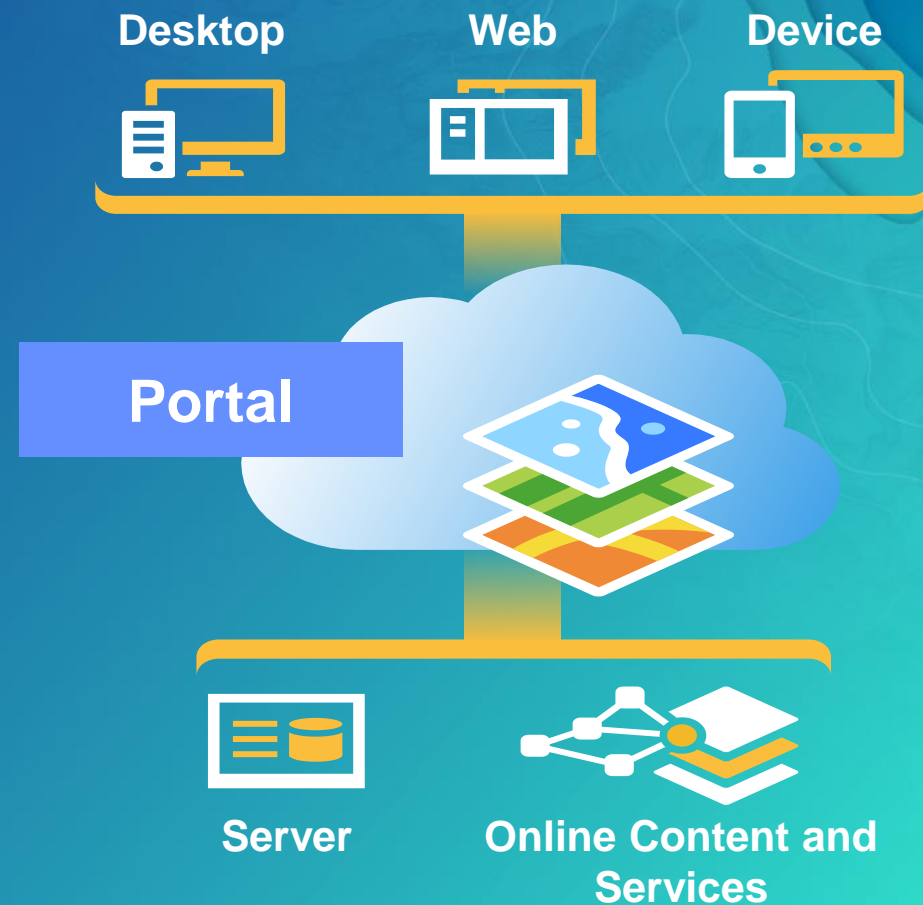
ArcGIS: Open Platform for Innovation



<http://www.esri.com/software/open>

The ArcGIS Platform

- **An Open & Interoperable Platform**
 - Supporting a thriving ecosystem of focused apps and applications.
- **A Standards Compliant Platform**
 - Supporting many relevant standards including those from ISO TC 211 and OGC.



ArcGIS

ArcGIS Online

ArcGIS Enterprise

Core Web GIS functionality
(Apps, visualization, smart mapping, analysis...)

- Hosted by Esri (SaaS)
 - Upgraded automatically (by Esri)
 - Esri controls SLA
- Esri-provided content and services
 - Basemaps
 - Living Atlas
 - GeoEnrichment, Routing, ...

- In your own infrastructure (Software)
 - Upgraded manually (by organization)
 - Organization controls SLA
- Advanced GIS functionality
 - GIS Server
 - Image Server (optional)
 - GeoEvent Server (optional)
 - GeoAnalytics Server (optional)

ArcGIS Enterprise | Software Components

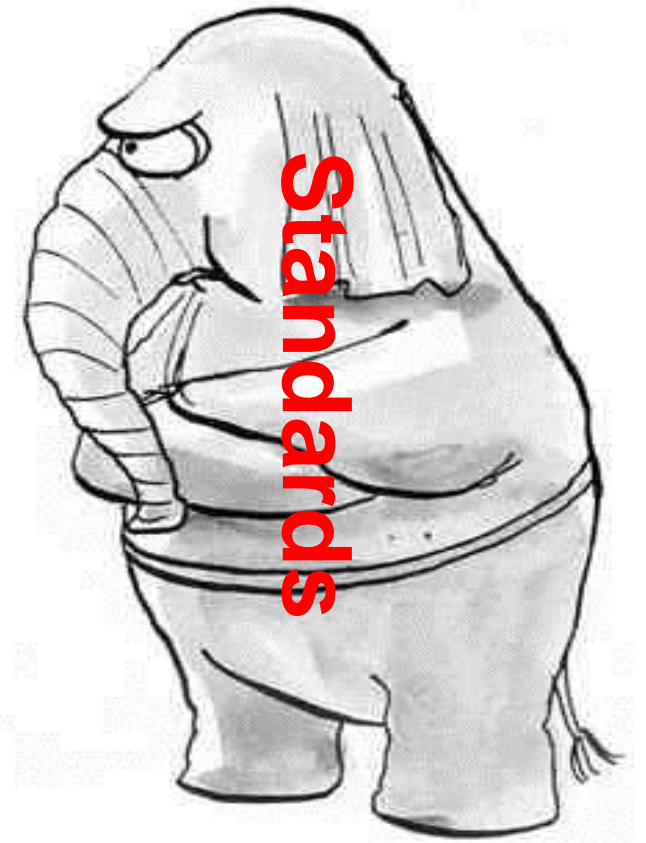


All of these components existed in the software pre-10.5

ArcGIS Online / Portal – Supported formats

- **Data formats**
 - <http://doc.arcgis.com/en/arcgis-online/reference/supported-items.htm>
- **Metadata formats**
 - <https://doc.arcgis.com/en/arcgis-online/share-maps/metadata.htm>
- **Web Service protocols**
 - <https://doc.arcgis.com/en/arcgis-online/reference/ogc.htm>

Open Platform Discussion



**“I suppose I’ll be the one
to mention the elephant in the room.”**

Standards (defacto & deJure)

- **Data Standards**

- CAD, Shape file, CSV, GML, GeoJSON, GeoRSS, KML, JPEG, Geopackage, ...

- **Metadata Standards**

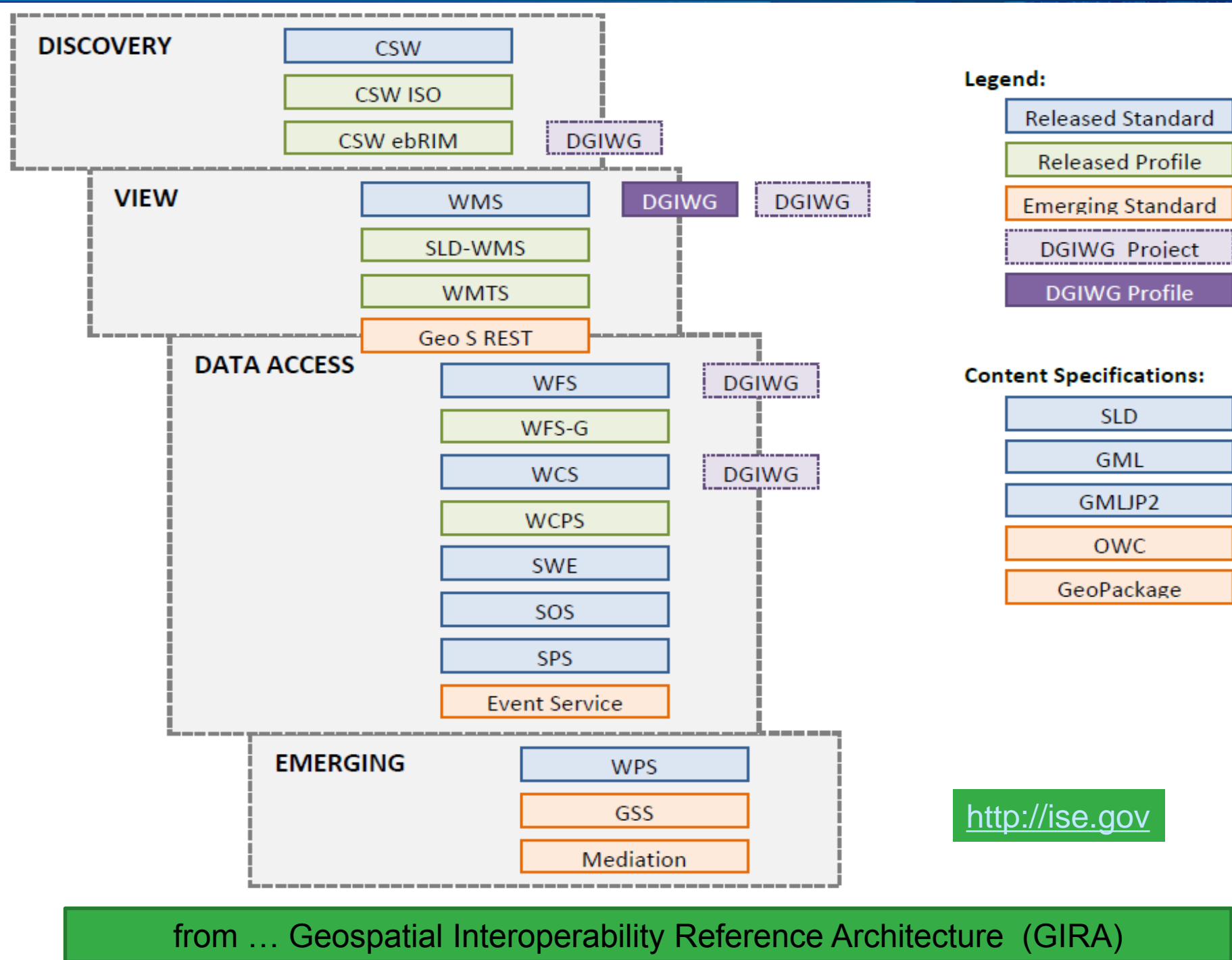
- ISO, FGDC, INSPIRE, DCAT, ...

- **Web Service Standards**

- GeoServices REST, WMS, WFS, WMTS, WCS, WPS, ...

Service Standards

WMS, WFS, WCS, ...





Demo

Chris Whitmore



esri

THE
SCIENCE
OF
WHERE