



Esri International Developer Summit
Palm Springs, CA

An Introduction to GIS for developers

Part 4: GIS Sharing

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Agenda

- **Web GIS**
- **ArcGIS Online**
- **Cloud-based ArcGIS Server**
- **ArcGIS Server on-premises**

ArcGIS a complete platform

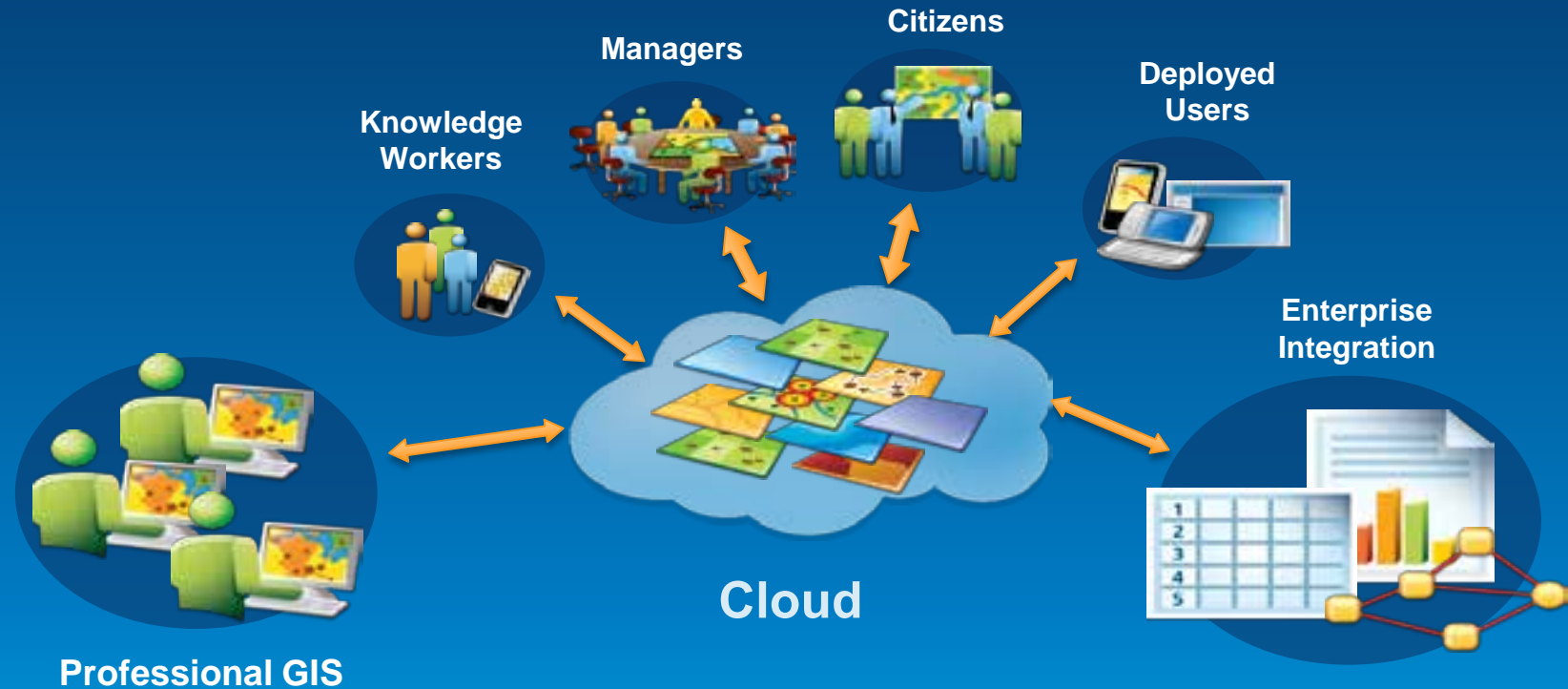
"discover, use, make & share"



Getting the information out...

Provides Geospatial Capabilities Across the Entire Organization

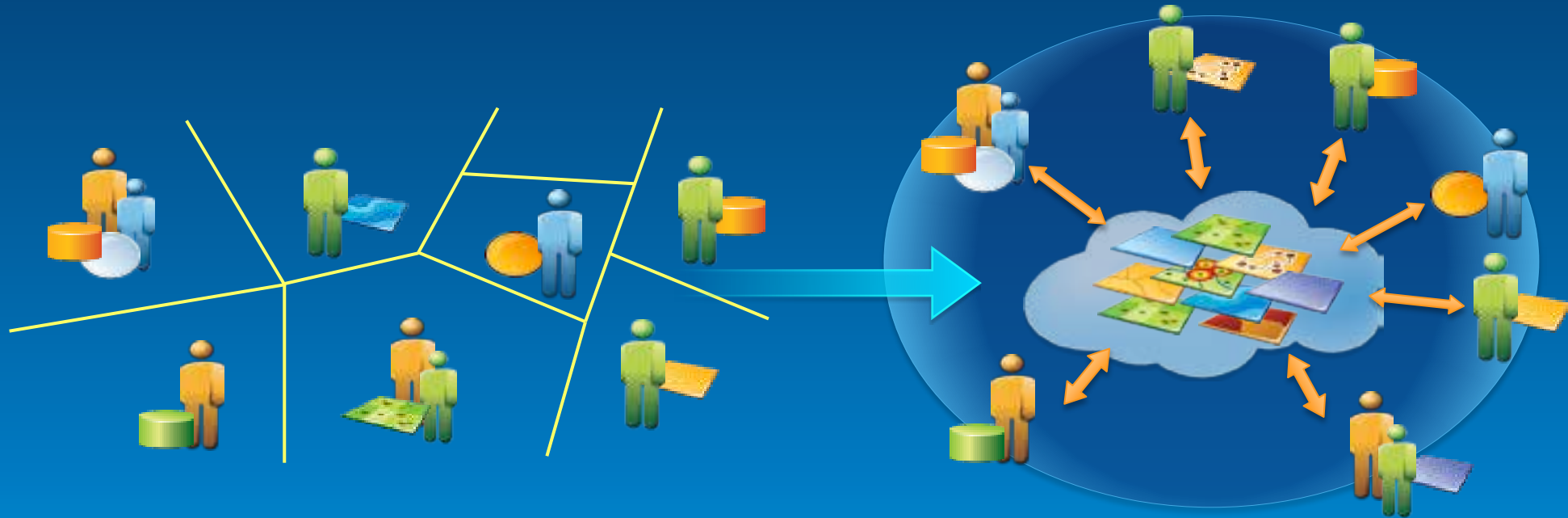
- Mapping
- Analysis
- Visualization



... A Framework For Sharing, and Collaboration

Getting the information in...

Breaks down barriers to communication & collaboration



... Anyone can gain access to the information they need

Exploring GIS as a Platform



Fundamentals



Data



Functionality



Sharing

Web GIS

Enabling informed decision making



Platform deployment patterns



On-premises



Public Cloud



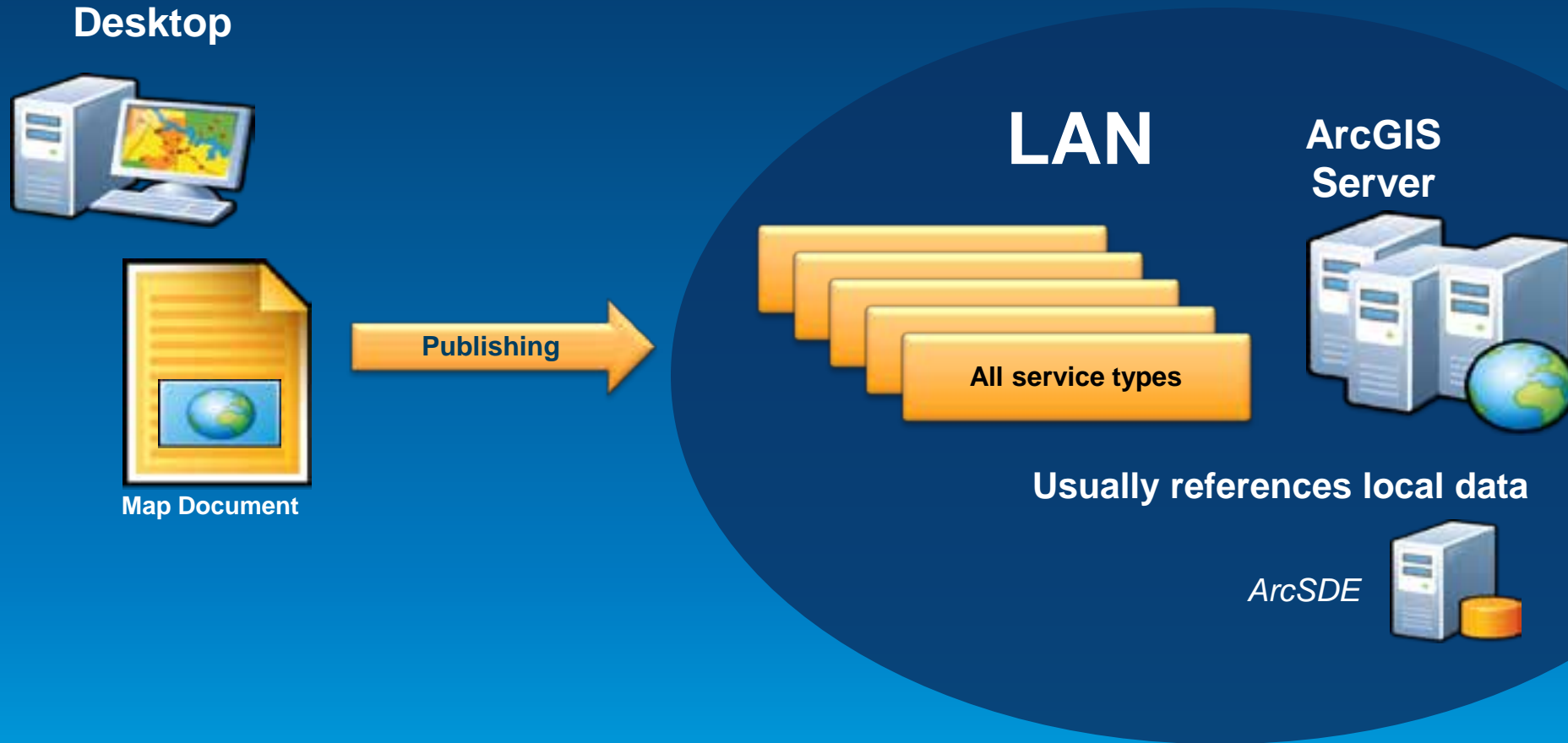
SaaS

Hosted features on ArcGIS Online



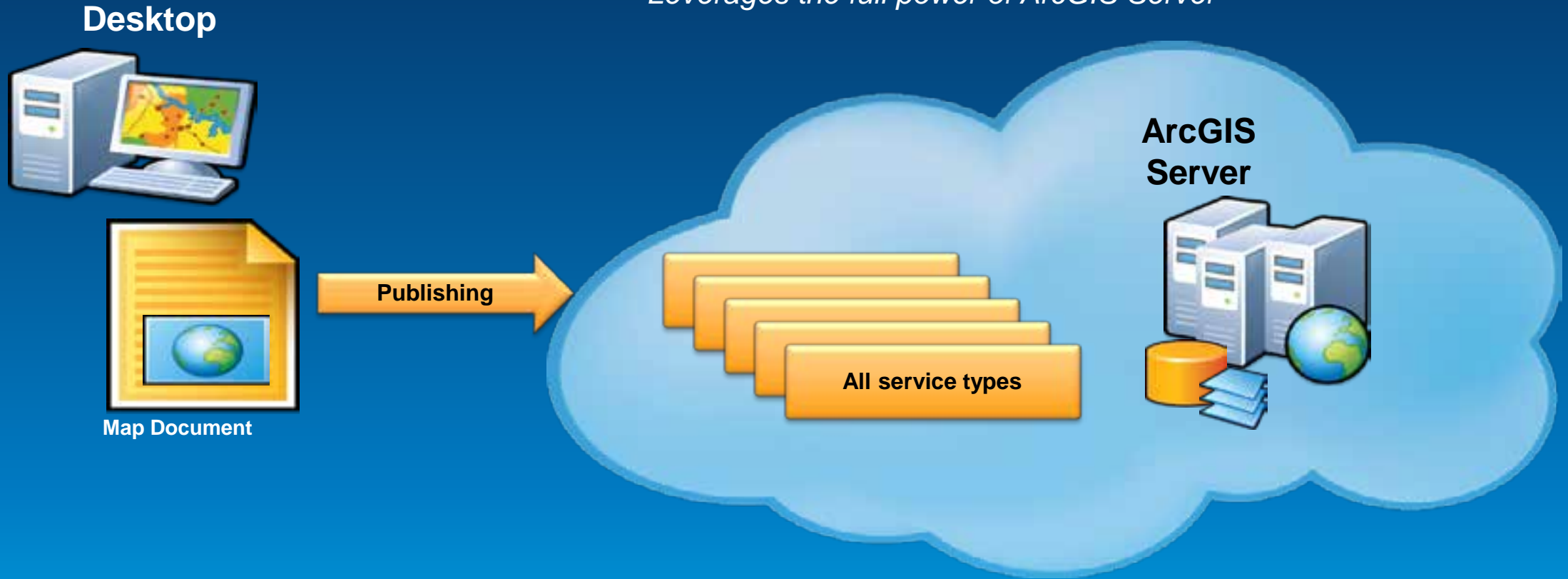
On-premises ArcGIS for Server

Leverages the full power of ArcGIS Server



ArcGIS Server: Using public cloud infrastructure

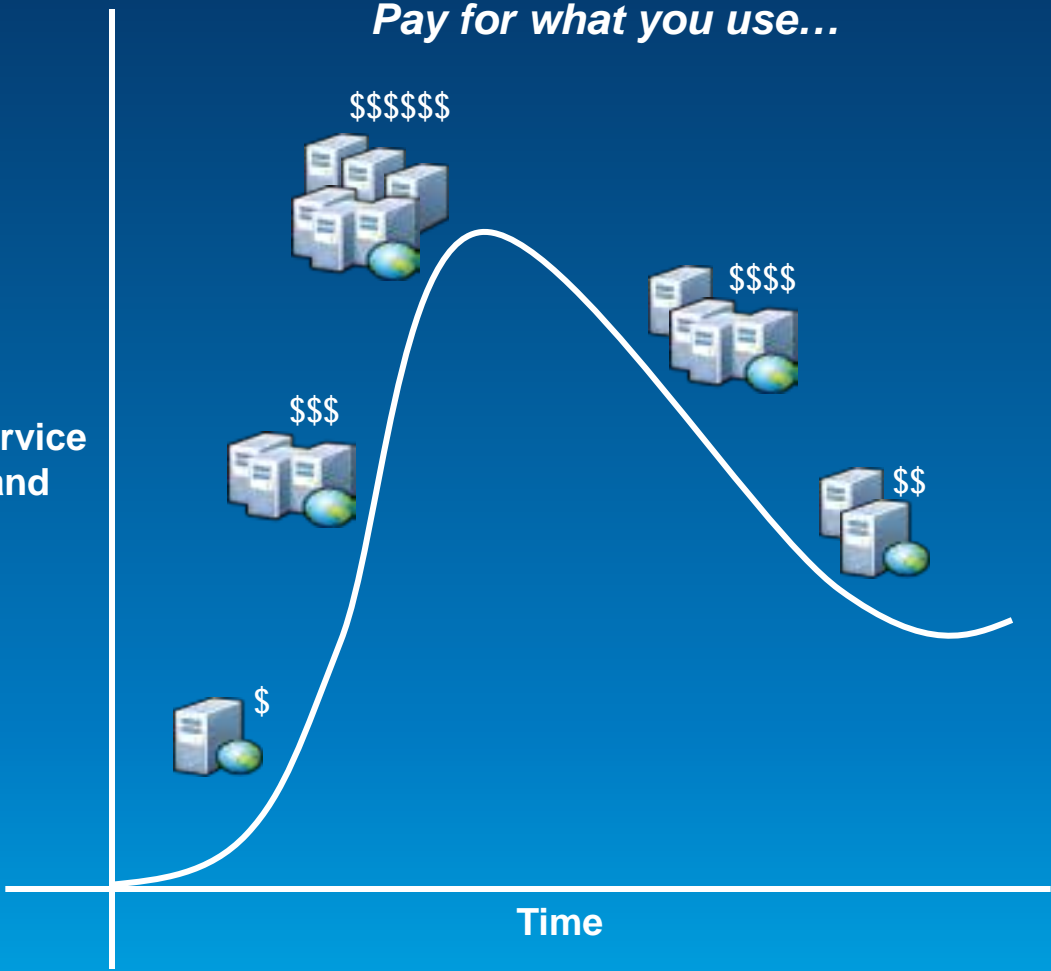
Leverages the full power of ArcGIS Server



What is cloud computing?



Web service demand



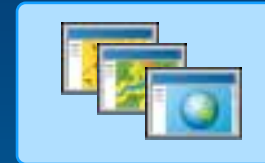
Portal w/ Registered, Federated & Hosted Services



GIS content portal



GIS service infrastructure



Ready to use content

SaaS

(Software as a Service)

ArcGIS Online Organization

Hosted services online

Online basemaps and services

Public Network

Software

(Installed on-premises)

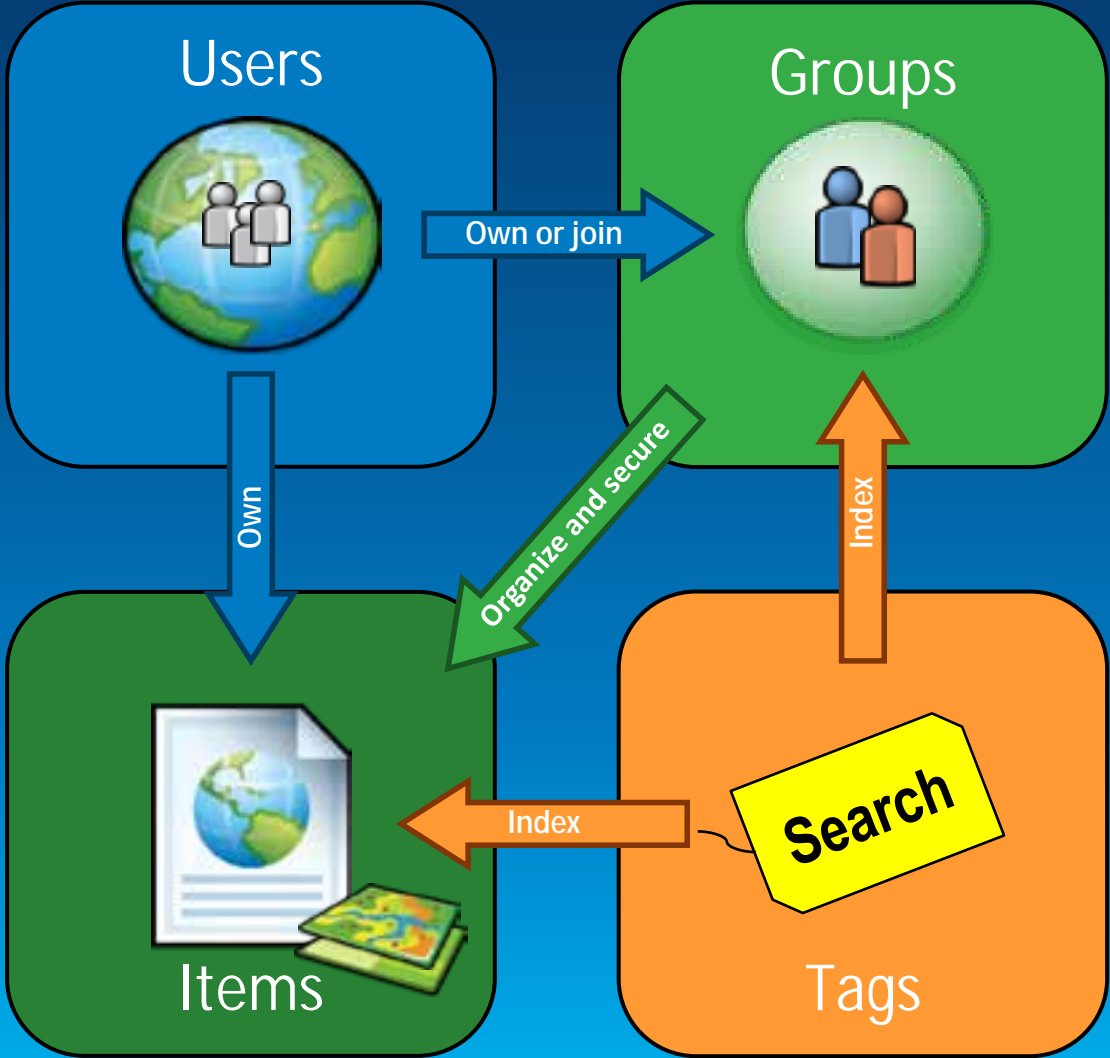
Portal for ArcGIS

ArcGIS for Server

Data Appliance for ArcGIS

Firewall

Web GIS information model











Publishing

Desktop sharing user interface



Understanding GIS service types

GIS resource		Service type	Supported in...
	Map document	Map	AGOL + ArcGIS Server
	Map document	Feature	AGOL + ArcGIS Server
	Raster or mosaic dataset	Image	ArcGIS Server ONLY
	Address locator	Geocoding	ArcGIS Server ONLY
	Geoprocessing result	Geoprocessing	ArcGIS Server ONLY
	Geodatabase or connection	Geodata	ArcGIS Server ONLY
	System default	Geometry	ArcGIS Server ONLY
	GIS workspaces	Search	ArcGIS Server ONLY

Analzers provide publication support

best practices

ensured access



successful services

optimized performance

How ArcGIS Server on premises data

1

Make resources accessible

2

Grant ArcGIS Server access

3

Register a location in the data store

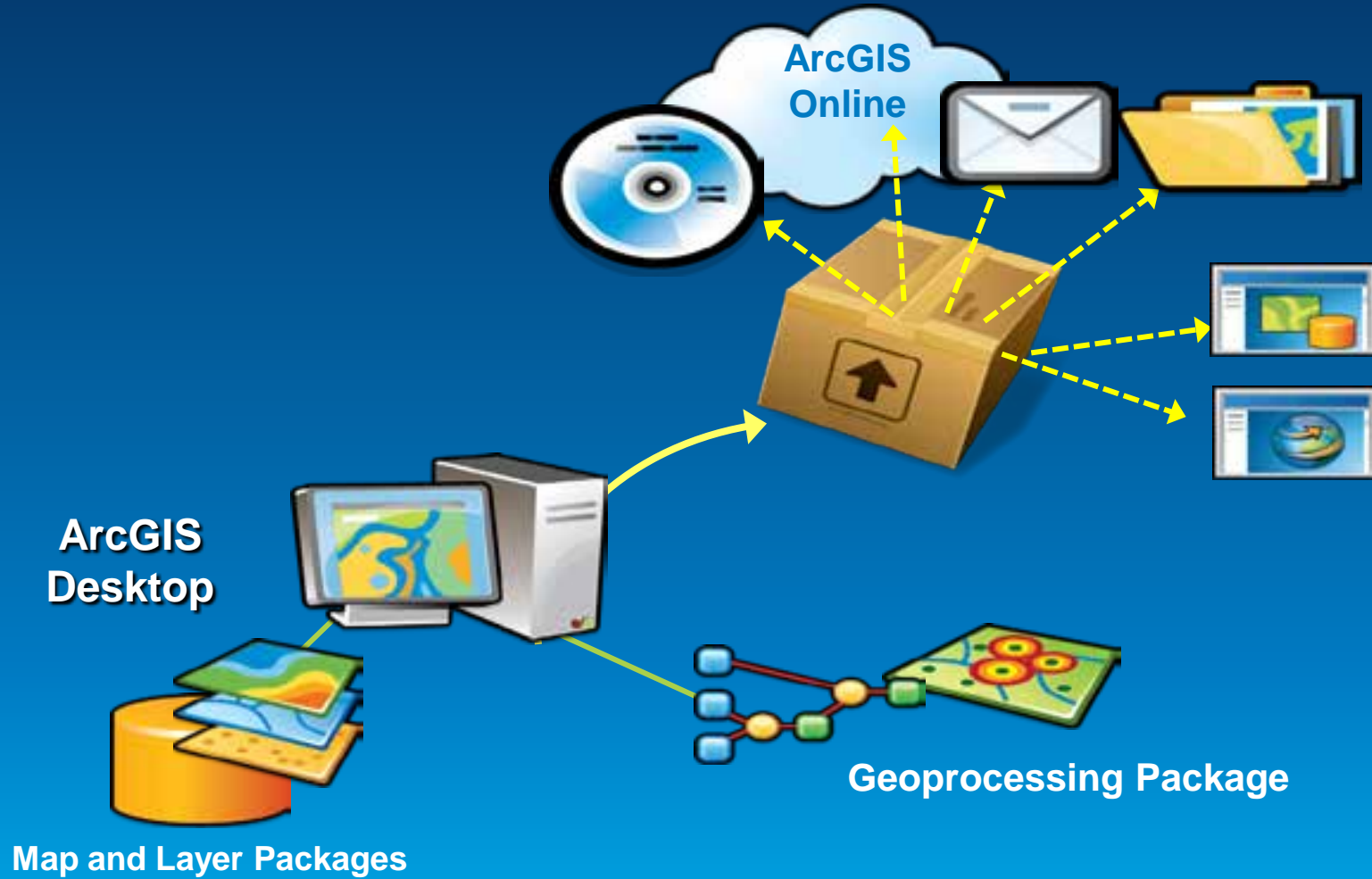
Desktop sharing

Self-contained packages



Efficient sharing for ArcGIS Desktop clients

Efficient sharing for ArcGIS Desktop clients



Web Clients

Apps & applications



Intelligent Web Maps

- Can Be Used Everywhere
- Enhancing access and collaboration



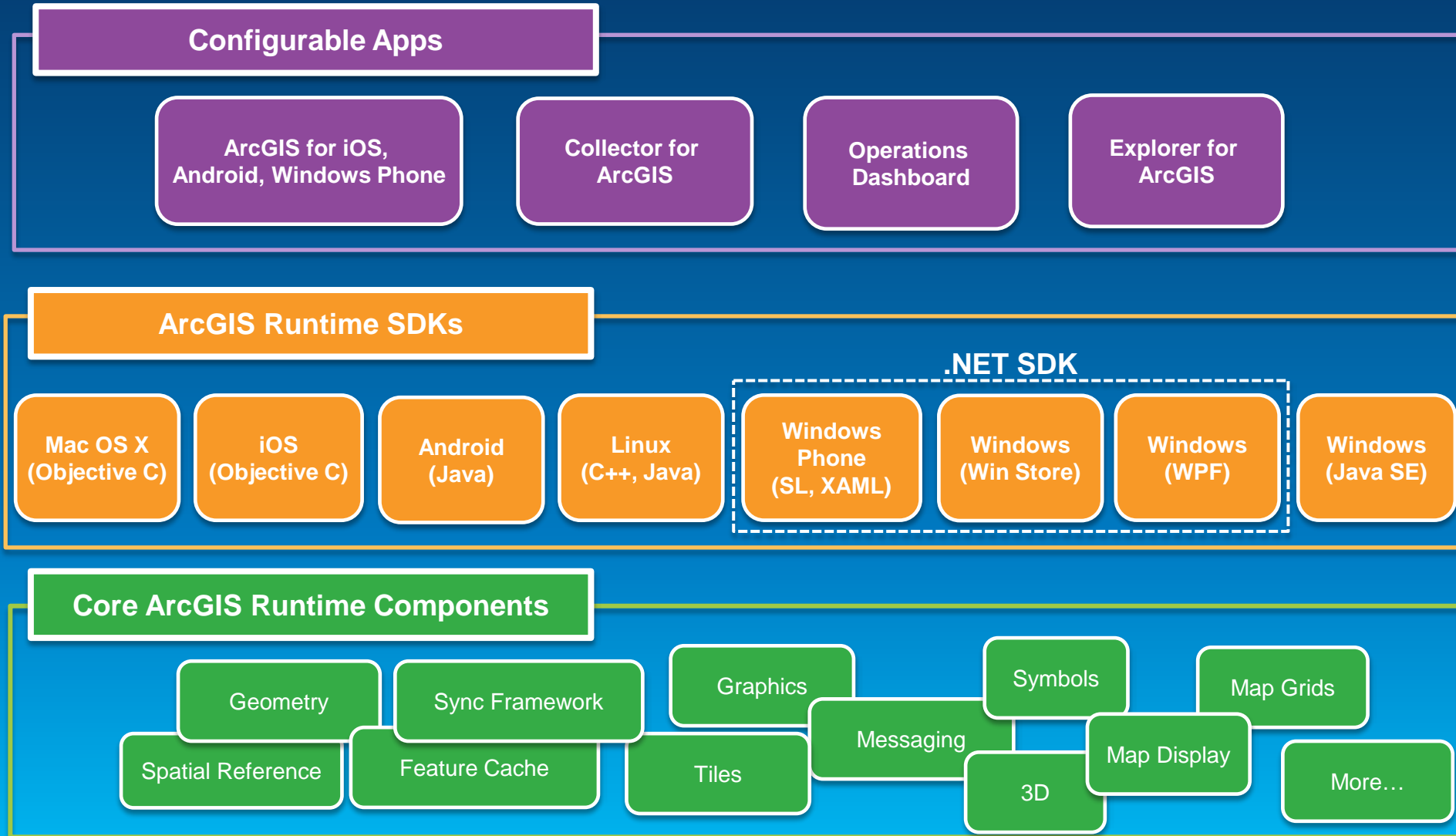
One Map – Many Devices

Esri Strategy toward mobility

- Extend the reach of Web GIS
- Platform agnostic
- Native apps/Web apps
- Developer Toolkits for partners



Device Platform Strategy



Foundation Apps

- Drive adoption of the ArcGIS platform
- Configurable, ready to use within your ArcGIS Organization
- Focused on a specific customer need
- Release updates frequently



ArcGIS Apps for Organizations



Collector for ArcGIS



- COTS Mobile app targets field workflow needs
- **Collect and update data**
 - Using your location or the map
 - Fill out forms
 - Capture media (pictures, videos)
- **Types of use**
 - Collect asset locations and status
 - Ground-truth their GIS data
 - Make observations/conduct surveys
 - Replace paper-based forms/process



Operations Dashboard for ArcGIS



- **Monitor and manage your operations**
- **Ready to use widgets anyone can configure**
 - Maps, Lists
 - Bar Charts, Gauges
 - Histograms, Indicators
 - Details
- **Extensible using WPF SDK**
- **Customers**
 - Monitor day to day operations
 - Manage planned and unplanned events
 - Visualize key performance indicators



Explorer for ArcGIS

- **New cross platform app for devices**
 - Phones, Tablets
 - iOS, Android platforms
- **Geo-aware knowledge workers within an organization can:**
 - Discover and Use Maps
 - Search, Explore and Edit data
 - Present, Share and Collaborate with Maps



Tablets



Phones

Web applications: Best practices

Attractive, intuitive & fast



Web map fundamentals

Basemaps

Geographic frame of reference

Contain static vector and raster data

Reusable in multiple applications



Operational layers

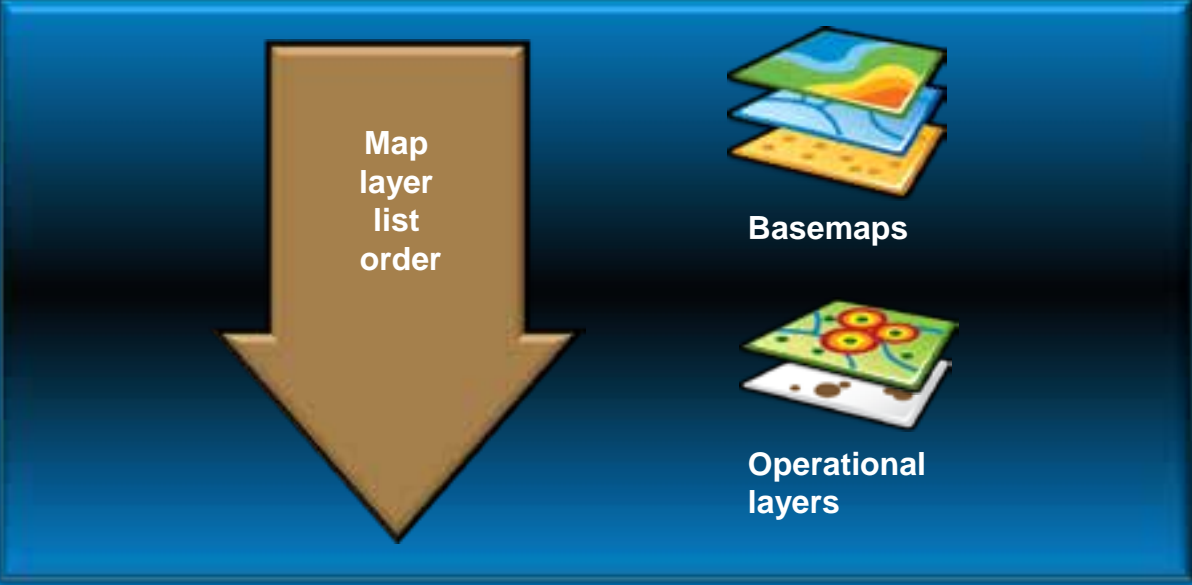
Show a focused item of interest

Support functionality of the application

Displayed on top of basemap



Combining map layers: List order



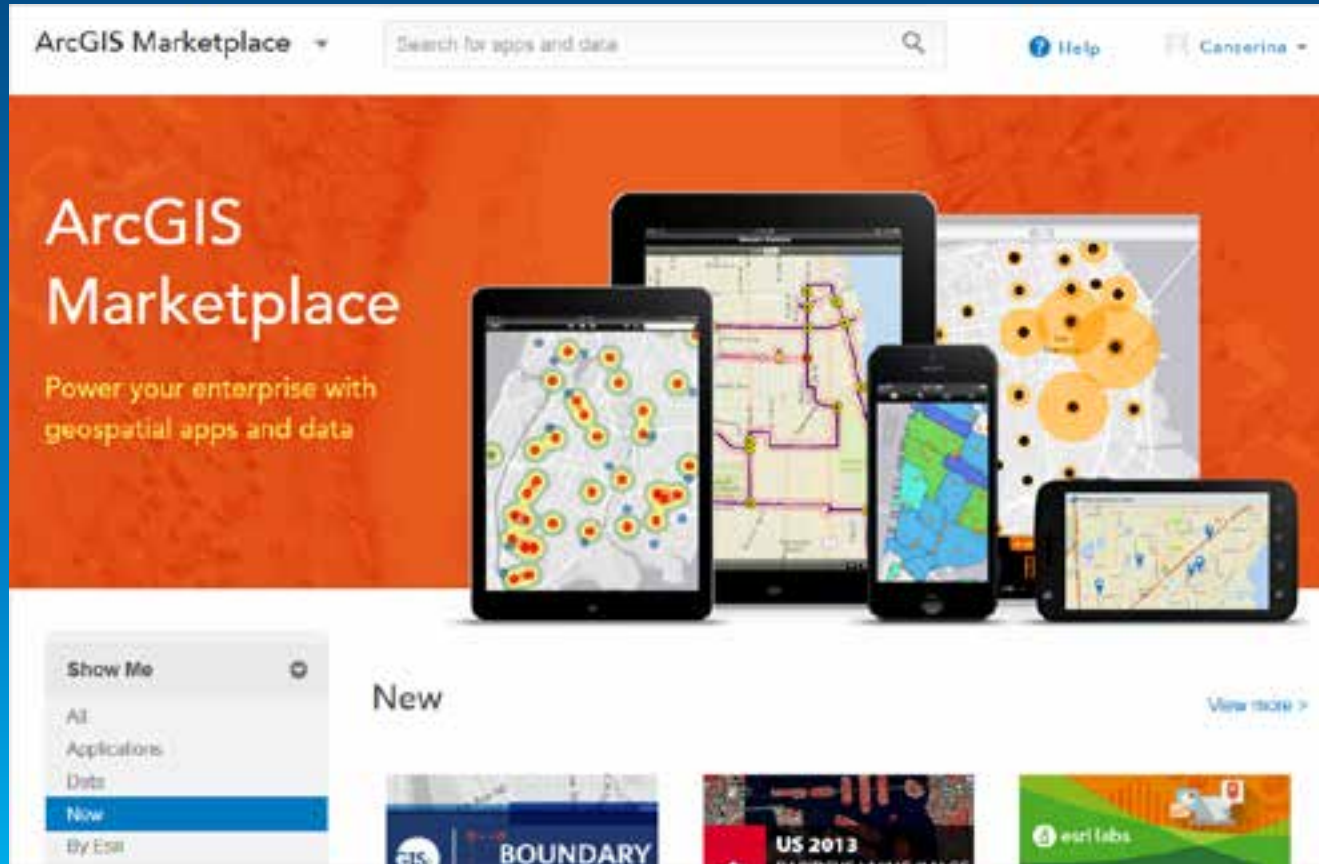
Developer community

marketplace



ArcGIS Marketplace

- <http://marketplace.arcgis.com>



Q & A

Thank you for attending...

Online Survey:

<http://www.esri.com/events/devsummit/session-rater>

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Understanding our world.