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GIS SEPTEMBER 2026 NEWSLETTER



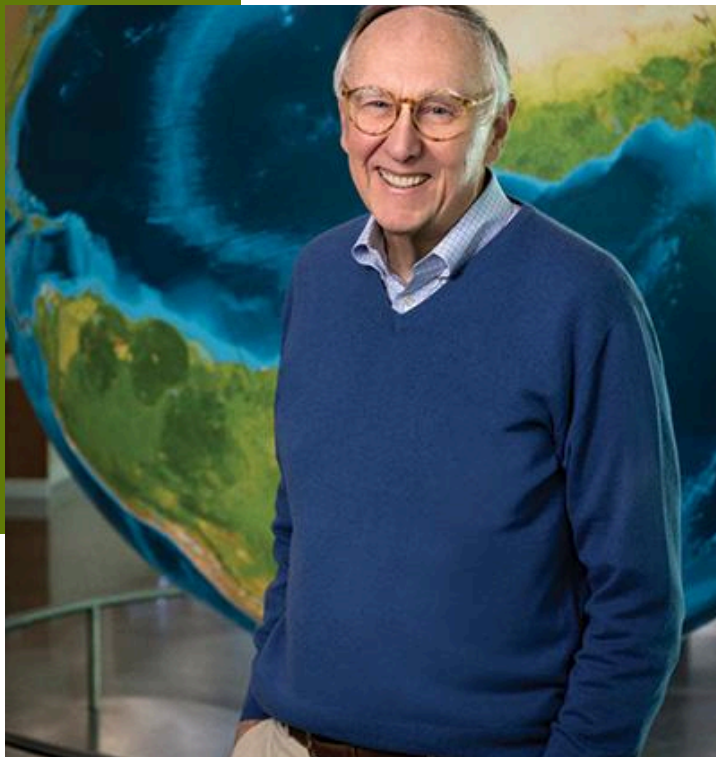
IN FOCUS

**ESRI ACADEMY GETS A NEW
LEARNING EXPERIENCE**

**ARCGIS UTILITY NETWORK
MIGRATION READING LIST**



مجموعة مايكروسنتر
MICROCENTER GROUP



FORBES 250

America's Greatest Innovators

**Esri President Jack Dangermond
Named Among Forbes 250
America's Greatest Innovators**

*"This is an honor that belongs to our entire
community of users and staff, without whom
the technology Esri built would not have been
possible."*

— Jack Dangermond

Forbes



Esri President Jack Dangermond has been recognized among Forbes 250 America's Greatest Innovators, celebrating his pioneering contributions to GIS and his leadership in transforming how organizations use location intelligence to solve real-world challenges.

[Read the full story →](#)

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The official Esri announcement confirms that Dangermond was recognized for his leadership in GIS technology and his role in developing mapping software that connects data with real-world location.

Special Achievement in GIS Award



SLRB Geoportal Wins 2026 SAG Award

The Survey and Land Registration Bureau (SLRB) has been recognised with the 2026 Special Achievement in GIS (SAG) Award, presented by Esri at the Esri User Conference 2026 in San Diego, California.

The award recognises SLRB's geoportal platform for its excellence in geospatial innovation and digital transformation. Developed over the past two years, the platform supports Bahrain's geospatial data infrastructure through data integration, real-time sharing and advanced geospatial technologies.

The geoportal integrates 3D data, digital twins, spatial analytics and AI-powered tools, supporting efficient planning and decision-making. SLRB President Eng. Basim bin Yacob Al Hamer praised the project team's innovation and expertise, highlighting Bahrain's growing leadership in geospatial technology.





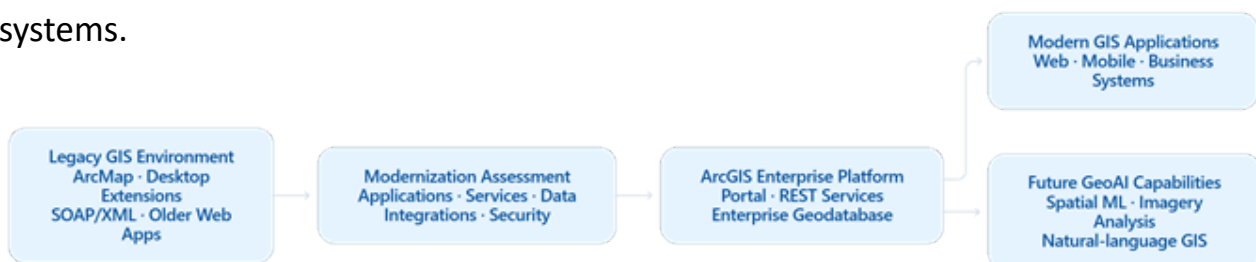
Modernizing Enterprise GIS Applications: Key Technical Considerations

Enterprise GIS applications may include ArcMap map documents, ArcGIS Server services, custom desktop extensions, direct geodatabase connections, SOAP/XML integrations, Python scripts, and web applications built with earlier JavaScript APIs. As these components age, they can become more difficult to maintain, secure, integrate with enterprise systems, and enhance.

Modernization should begin with a structured technical assessment of the existing environment. The assessment identifies the GIS applications in use, the business functions they support, the ArcGIS Server services on which they depend, the source datasets and enterprise geodatabases involved, the integrations in place, and the related business processes.

The review should examine ArcMap documents, layer data sources, joins, definition queries, symbology, labels, geoprocessing models, ArcPy scripts, scheduled tasks, desktop extensions, and web-application configuration. Existing ArcGIS Server services should also be reviewed, including MapServer, FeatureServer, ImageServer, GPService, and GeometryService endpoints.

The underlying data architecture requires equal attention. Enterprise geodatabases should be reviewed for database platform, versioning approach, domains, subtypes, relationships, attachments, replicas, and spatial and attribute indexes. Core datasets, such as parcels, addresses, buildings, roads, assets, and administrative boundaries, should be checked to confirm that they are authoritative, current, consistently identified, and suitable for use by both GIS and related business systems.



Modernization creates an ArcGIS Enterprise foundation for modern web, mobile, and business applications, while allowing future GeoAI capabilities to be introduced progressively.

Existing integrations should be reviewed for endpoint design, authentication, data formats, error handling, transaction dependencies, and operational support. The security review should cover Portal roles and groups, sharing settings, service permissions, identity-provider integration, certificates, tokens, and network access.

The outcome should be a migration matrix that records each application, service, script, dataset, and integration; its business purpose and dependencies; the proposed target technology; the migration method; technical risks; test requirements; and the decision to retain, redesign, replace, or retire the component.

The modern target environment should separate the web application, GIS service layer, enterprise data layer, and integration components. Portal for ArcGIS manages identity, content, sharing, and application discovery. Web and mobile applications access secured ArcGIS Server REST services, which in turn access enterprise geodatabases and approved GIS functions.

Web and Mobile Applications → Portal for ArcGIS (identity, content and sharing)

Web and Mobile Applications → ArcGIS Server REST Services → Enterprise Geodatabase Business Systems → REST APIs / Integration Layer → ArcGIS Server REST Services

ArcGIS Pro should be used for map authoring, analysis, and service publishing. Web applications built with ArcGIS Maps SDK for JavaScript access GIS functions through secured ArcGIS Enterprise REST services.

Feature Services support feature query, display, attachments, related records, and, where editing is enabled, feature editing. Geometry Services support projection, buffering, and spatial-relationship operations. Geoprocessing Services expose approved spatial-analysis functions, while Image Services provide access to raster and imagery datasets. These services enable the same authoritative GIS data and functions to be reused by web applications, mobile applications, dashboards, permit systems, inspection systems, asset-management systems, and other enterprise applications.

During implementation, ArcMap-based maps and services should be rebuilt as ArcGIS Pro projects and republished as supported REST services. Legacy SOAP/XML integrations should be replaced with REST/JSON interfaces. Application configuration, service URLs, and secrets should not be stored in browser code; they should be managed through secure configuration and server-side services.

Database indexes, service instances, maximum record counts, timeouts, caching, and logging should be configured using measured usage and performance-testing results. Portal groups, user roles, sharing settings, and service-level permissions should be applied according to the organization's security model.

Migration should proceed through development, technical testing, user-acceptance testing, production deployment, and controlled retirement of legacy components. Each stage should validate map display, feature queries, editing, attachments, printing, geoprocessing results, response times, security controls, and external integrations.

A modern ArcGIS Enterprise foundation also enables future GeoAI development. When authoritative GIS datasets are structured and GIS capabilities are available through secured REST services, organizations can add spatial machine-learning workflows, imagery analysis, predictive models, and natural-language GIS functions without replacing the existing GIS platform.

Esri Academy Introduces a Redesigned Learning Experience

By Esri Digital Experience



Esri Academy has launched a redesigned learning experience, making it easier for GIS professionals, students and organizations to discover, access and manage training resources. The new experience features a refreshed design, streamlined navigation and a more intuitive learning journey aligned with the broader Esri.com ecosystem.

The updated platform introduces improvements across Learning Plans, My Academy and certification resources. Learners can now more easily explore curated learning paths, track their training progress, manage certifications, and find resources aligned with their professional development goals.

The redesign also brings several changes to existing features, including Wish List becoming Bookmarks, Help becoming FAQ and the retirement of Community Learning Plans and Are You Ready Assessments. Behind the refreshed interface, Esri has also modernized the platform to create a stronger foundation for future innovation, personalization and improved learning experiences.

With this new experience, Esri Academy continues to support users in building their ArcGIS skills, pursuing certifications and advancing their GIS knowledge.

[Read the full article on Esri ArcGIS Blog](#)

ArcGIS Utility Network migration reading list

By Robert Krisher

Migrating existing utility data to the ArcGIS Utility Network can be a complex process, especially with the wide range of tools, approaches and resources available. Esri's new ArcGIS Utility Network Migration Reading List brings these resources together in one place to help organizations plan and successfully manage their migration journey.



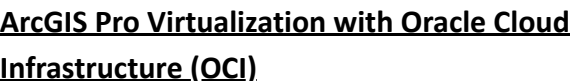
The reading list covers key topics including data migration approaches, tutorials, data modeling decisions, the Migration Toolset, Utility Network Foundations, industry-specific configurations, error analysis and deployment. Resources are organized by experience level—beginner, intermediate and advanced—making it easier for users to find content relevant to their skills and project requirements.

Whether you are exploring the Utility Network for the first time, preparing your existing data for migration, developing a prototype, or working toward a full implementation, this collection provides practical guidance, tutorials, videos and best practices to support each stage of the process.

[Read the full article](#)

Announcements

By Lauren Lipovic and Rob Elkins

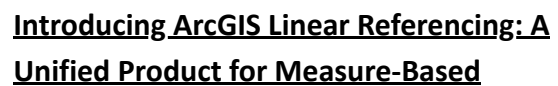


A graphic illustrating the integration of ArcGIS Pro with Oracle Cloud Infrastructure (OCI). The central focus is a computer monitor displaying the ArcGIS Pro logo, which consists of a blue hexagon with a white globe icon and the text "ArcGIS Pro" to its right. To the right of the monitor is a stack of three black server units, each with green status lights. Above the monitor, a white cloud icon contains three server-related symbols: a monitor, a database cylinder, and a globe, all connected by dotted lines. The background is a scenic view of a lake and mountains under a blue sky with white clouds.

By Scott Oppmann



By Steven Moore



Enterprise Data Management

A diagram illustrating the ArcGIS Linear Referencing workflow. At the top, a globe icon represents the global context. Below it, a central blue circle contains a map of a road network. Five lines radiate from this central circle to five smaller circular icons arranged in a semi-circle below. Each icon represents a different stage or feature of the linear referencing process:

- Route Management:** Shows a map of a road network with a specific route highlighted in red.
- Automated event updates:** Shows a map of a road network with a specific event (a red dot) highlighted.
- External System Integration:** Shows a map of a road network with a specific event (a red dot) highlighted.
- Reporting and Analytics:** Shows a map of a road network with a specific event (a red dot) highlighted.
- Linear Referencing across ArcGIS:** Shows a map of a road network with a specific event (a red dot) highlighted.

ESRI Training Offering

➤ **Python for ArcGIS: Take the Next Step**
by Derek Nelson and Travis Ormsby | Watch live on September 17, 2026



Live on September 17, 2026

Training Seminar

Python for ArcGIS: Take the Next Step

Publicly available ⓘ

1h

☆☆☆☆☆

Get details

➤ **The Power of Where: Communicating with Maps**
by Ankita Bakshi, Flora Vale, John Nelson, Tommy Fauvell and Warren Davison



MOOC

Starts October 21, 2026

The Power of Where: Communicating with Maps

Publicly available ⓘ

6 weeks (2-3 hours self-paced per week)

☆☆☆☆☆

Get details

➤ **Make an Impact with Enterprise GIS**
by Brad Strittmatter, Chris Vokaty, Deepti Kochhar, Jim Pardue and Mary Harding



MOOC

Starts September 9, 2026

Make an Impact with Enterprise GIS

Publicly available ⓘ

6 weeks (2-3 hours self-paced per week)

☆☆☆☆☆



Get details

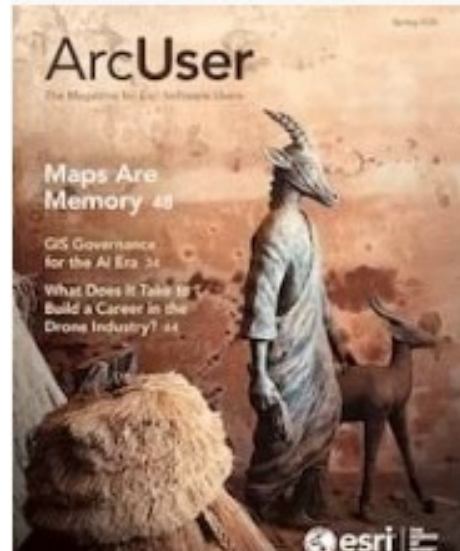
ESRI Publications



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ArcUser Spring edition

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MicroCenter Group

Founded in 1983, MicroCenter Group is a pioneer in providing information technology solutions in Bahrain. Initially it was started with the aim of providing customized IT solutions to small and medium organizations but today with over 100 customers, both in the Government and private sector it has attained a leadership position in the industry within the country. With four group companies and an office in Saudi Arabia, today it has diversified into various other businesses that include IT Business Solutions, Geographical Information Systems (GIS), Utility network GIS surveys, LiDAR Technology / BIM modeling, and Digital media solutions & Specialized training.



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