



مجموعة مايكروسنتر
MICROCENTER GROUP

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GIS Newsletter



Deprecation Announcement of ArcGIS GeoEvent Server



ArcGIS GeoEvent Server is being deprecated.

The final release of GeoEvent Server will be the ArcGIS Enterprise 12.3 release (expected in May 2027). ArcGIS GeoEvent Server will still remain accessible at Enterprise 12.3 and earlier versions.

Why Is ArcGIS GeoEvent Server Being Deprecated?

ArcGIS GeoEvent Server was first released in 2013 to enable organizations build and run real-time monitoring and workflows based on live event data. During that time, ArcGIS GeoEvent Server has supported mission-critical operations across government, utilities, transportation, public safety, defense, and commercial sectors.

The ArcGIS Enterprise 12.3 release, expected in 2027, will be the final version of ArcGIS GeoEvent Server. Its retirement will follow the same life cycle as ArcGIS Enterprise 12.3 and will be retired according to the ArcGIS Enterprise product life cycle. At the release of ArcGIS Enterprise 12.4, expected in November 2027, ArcGIS GeoEvent Server will be removed. The deprecation is driven by the upcoming release of ArcGIS Velocity for ArcGIS Enterprise (Windows/Linux) in May 2026, which will deliver next-generation real-time capabilities, including improved performance and a modern user interface for enhanced usability.

ArcGIS Velocity has been available as a software-as-a-service extension for ArcGIS Online. At the upcoming ArcGIS Enterprise 12.1 release, ArcGIS Velocity will be available for ArcGIS Enterprise deployments on Windows

and Linux. ArcGIS Velocity is Esri's recommended path forward for real-time event processing and analytics for self-hosted environments.

In June 2026, following the ArcGIS Enterprise 12.1 release, ArcGIS GeoEvent Server customers who have an active subscription or are current on maintenance will receive an ArcGIS Velocity Server license.

When is the last release of ArcGIS GeoEvent Server?

The final release of GeoEvent Server will be in the ArcGIS Enterprise 12.3 release (expected in May 2027). For existing customers who are current on maintenance, ArcGIS GeoEvent Server released with ArcGIS Enterprise 12.3 and earlier will continue to be supported as outlined in the product life cycle for those versions. Starting with ArcGIS Enterprise 12.4 (expected in November 2027), the GeoEvent Server will be removed from ArcGIS Enterprise.

What is the recommended transition and next steps?

ArcGIS Velocity is the recommended transition path for organizations currently using ArcGIS GeoEvent Server. Velocity is the next generation of real-time GIS, offering improvements to performance, a more user-friendly experience, and is architected for future scalability.

To make your transition easier, organizations are strongly encouraged to assess existing GeoEvent Server workflows, such as all inputs, analyses, and outputs, and identify equivalent or alternative capabilities in ArcGIS Velocity. Early assessment will help develop your transition plan and minimize potential disruptions or risks.

Transforming Real Estate with AI and GIS



Introduction: From Traditional GIS to Intelligent Real Estate Platforms

The real estate industry is undergoing a major digital transformation driven by Artificial Intelligence (AI), GeoAI, and enterprise Geographic Information Systems (GIS). Traditionally, GIS in real estate was mainly used for mapping and visualization purposes such as displaying parcels, cadastral boundaries, zoning maps, and ownership information. While these systems provided spatial visibility, they were mostly static, reactive, and dependent on manual interpretation and updates.

Modern real estate systems are now evolving into intelligent spatial platforms capable of analysing, predicting, validating, and automating real estate workflows using advanced geospatial intelligence and AI-driven automation. The integration of AI with the ArcGIS ecosystem enables organizations to move beyond simple map visualization into automated spatial reasoning and urban intelligence.

At the core of this transformation is the ArcGIS platform, which acts as the authoritative system of record for managing spatial and non-spatial datasets.

Technologies such as ArcGIS Enterprise, Enterprise Geodatabase, ArcGIS Image Server, and ArcGIS REST Services create a centralized spatial infrastructure that stores and manages:

- Parcels
- Land ownership
- Zoning regulations

- Land-use plans
- Building footprints
- Infrastructure networks
- Environmental layers

This centralized GIS environment becomes the foundation for intelligent real estate operations and spatial governance.

Integrated Spatial Data Ecosystem

Modern real estate intelligence depends on integrating multiple data sources into a unified geospatial framework. Real estate systems no longer rely only on cadastral datasets. Instead, they combine information from government systems, remote sensing platforms, enterprise applications, and field operations.

The integrated datasets may include:

- Permit and planning systems
- Ownership and cadastral databases
- Satellite imagery
- Drone imagery and LiDAR data
- Market and demographic data
- Utility and infrastructure systems
- Field survey and inspection data

Using ArcGIS REST APIs, ETL pipelines, and enterprise integration frameworks, all datasets are continuously synchronized into the Enterprise Geodatabase.

This creates a live spatial intelligence ecosystem where data is continuously updated, spatially aligned, and centrally managed.

Once the data is integrated, GIS applies spatial intelligence and analytical processing. ArcGIS performs:

- Parcel alignment validation
- Geocoding and address standardization
- Zoning and land-use overlay analysis
- Proximity analysis for roads and infrastructure
- Environmental constraint analysis
- Spatial conflict detection

This stage transforms raw geospatial data into context-aware spatial intelligence. GIS is no longer just storing maps; it is actively evaluating relationships, constraints, and urban conditions.

GeoAI and Deep Learning in Real Estate

The next level of transformation occurs when Artificial Intelligence and Deep Learning models are integrated into GIS workflows. ArcGIS GeoAI capabilities allow organizations to automate feature extraction, change detection, compliance monitoring, and urban analysis using imagery and spatial datasets.

Using technologies such as:

ArcGIS Pro Deep Learning Tools

ArcGIS API for Python

Raster Analytics

Distributed Image Processing

the system can automatically process large-scale imagery and geospatial datasets.

Advanced AI models such as:

Mask R-CNN

U-Net

PointCNN

RandLA-Net :

can analyse imagery and spatial data to identify urban features and patterns.

GeoAI enables automated:

Building footprint extraction

Unauthorized construction detection

Land-use classification

Urban change detection

Built-up area monitoring

For example, AI models can analyse drone or satellite imagery to detect newly constructed buildings. These extracted buildings are automatically compared with approved permit data stored in the geodatabase. This enables automated compliance validation and unauthorized construction detection without relying solely on manual inspections.

This approach significantly improves:

Monitoring efficiency

Compliance enforcement

Urban governance transparency

Speed of decision-making

The AI lifecycle is also continuously managed using:

Model versioning

Metadata tracking

Training dataset management

Accuracy evaluation

Retraining pipelines

This ensures that GeoAI models remain accurate, auditable, scalable, and continuously improving as new data becomes available.

Backend Intelligence and Enterprise Services

The intelligence generated by GIS and AI must be operationalized through enterprise backend systems. Backend orchestration layers expose AI and GIS capabilities through scalable APIs and workflow services.

The backend architecture typically includes:

- REST APIs
- ArcGIS Feature Services
- AI inference services
- Workflow orchestration engines
- Asynchronous processing pipelines
- Event-driven architectures

Frameworks such as FastAPI, .NET Core, and Python-based AI services are commonly used to connect GIS, AI models, enterprise systems, and user applications.

This architecture allows organizations to automate:

- Compliance workflows
- Spatial validation
- Permit intelligence
- Inspection management

- Urban monitoring

The processed intelligence is then delivered to users through:

- ArcGIS Experience Builder applications
- Web GIS portals
- Operational dashboards
- Mobile inspection applications
- Users can visualize:
 - Urban changes
 - Flagged parcels
 - Violations
 - Permit status
 - Real-time development activity
- Field inspectors can validate cases onsite using mobile GIS applications integrated with enterprise systems.

AI Assistants and Intelligent Spatial Decision Support

A major advancement in modern real estate systems is the integration of Large Language Models (LLMs) and AI assistants with GIS platforms.

By combining:

GeoAI outputs

Spatial databases

Vector databases

Retrieval-Augmented Generation (RAG)

Knowledge Graphs

LLM-based assistants

users can interact with GIS systems using natural language.

Examples include:

“Show parcels with recent unauthorized construction.”

“Identify high-value development corridors.”

“Find zoning violations within this district.”

“List parcels affected by environmental restrictions.”

The AI assistant retrieves spatial intelligence, regulations, historical records, and AI-generated insights, then explains the results in human-readable language.

This transforms GIS from a technical mapping tool into an intelligent decision-support platform.

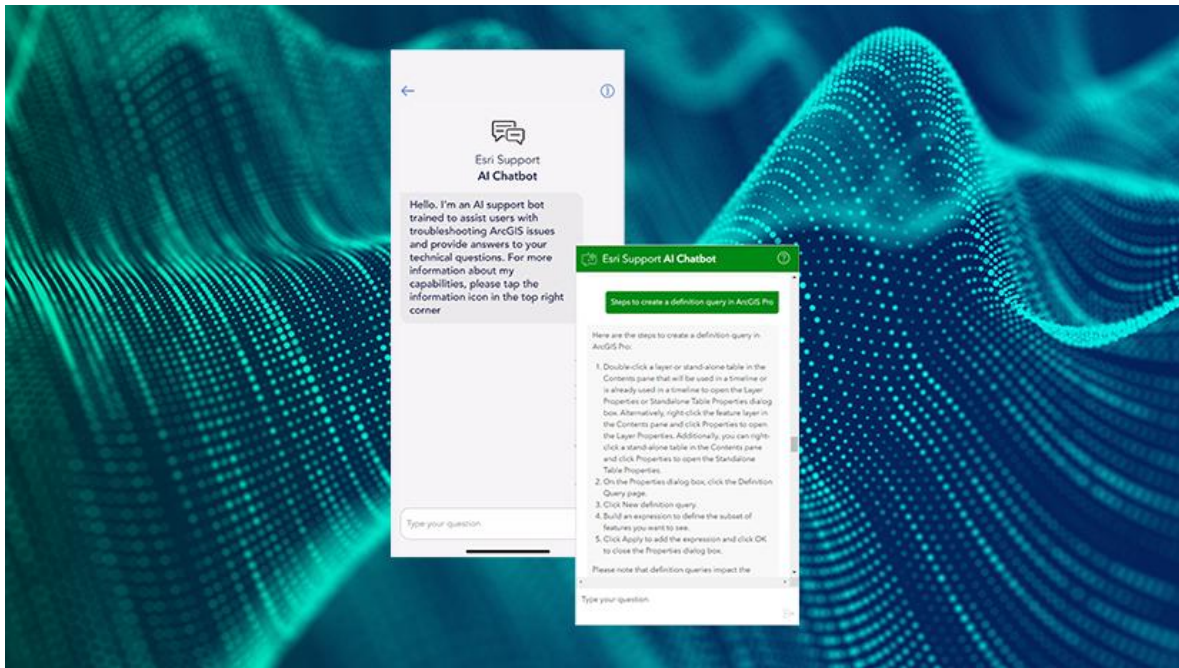
The overall impact on the real estate industry is significant. Organizations can move from reactive enforcement toward proactive urban governance. Instead of depending entirely on manual inspections and delayed validations, authorities can continuously monitor urban development using AI-powered spatial intelligence.

The integration of AI, GeoAI, and ArcGIS technologies enables:

- Faster permit validation
- Automated compliance monitoring
- Real-time urban intelligence
- Improved land valuation
- Scalable city-wide monitoring
- Predictive urban governance

The future of real estate systems is no longer based on static maps and disconnected records. The convergence of GIS, Artificial Intelligence, Deep Learning, GeoAI, and enterprise spatial analytics is creating intelligent real estate ecosystems capable of understanding, monitoring, and managing urban environments at scale.

Now Live: AI-Enhanced Support Case Form



ArcGIS support services are provided by Esri to help organizations use, maintain, and troubleshoot their GIS systems. These services go beyond just fixing errors—they support the full lifecycle of your ArcGIS deployment.

Technical Support (Core Support)

This is the most commonly used service.

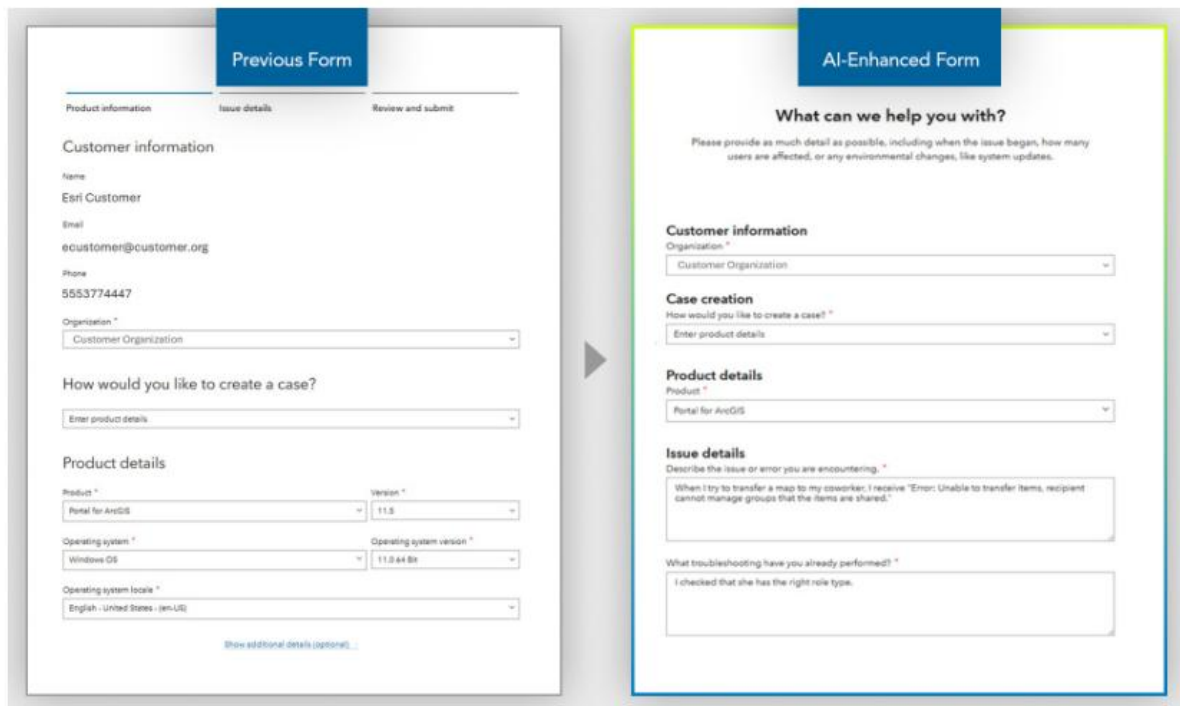
- Standard Support (included with maintenance)
- Unlimited support requests via phone, web, or chat
- Help with installation, configuration, errors, and performance issues

Typically available during business hours.

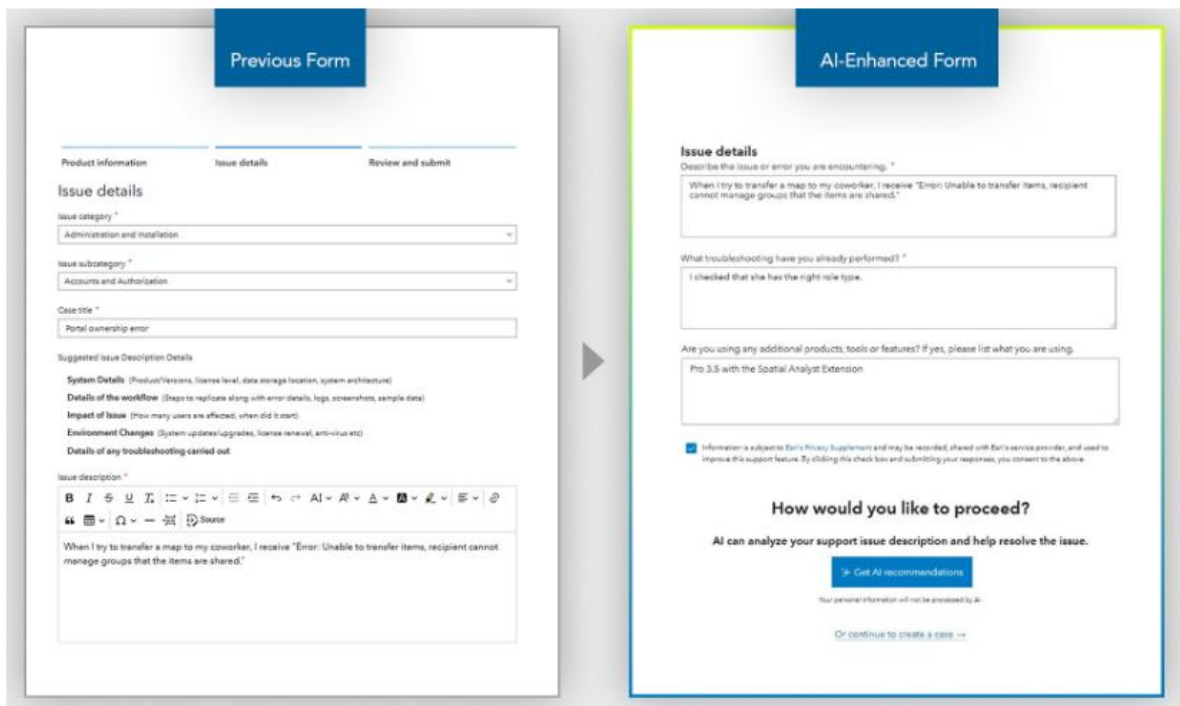
Esri Support is pleased to announce that the AI-enhanced Support Case Submission Form is ready for authorized callers to use. The case submission form features optional AI-generated solutions to help you get answers to technical questions nearly instantly. Using your issue description as a prompt, our in-house LLM searches our library of technical support resources and generates a custom answer.

What's new?

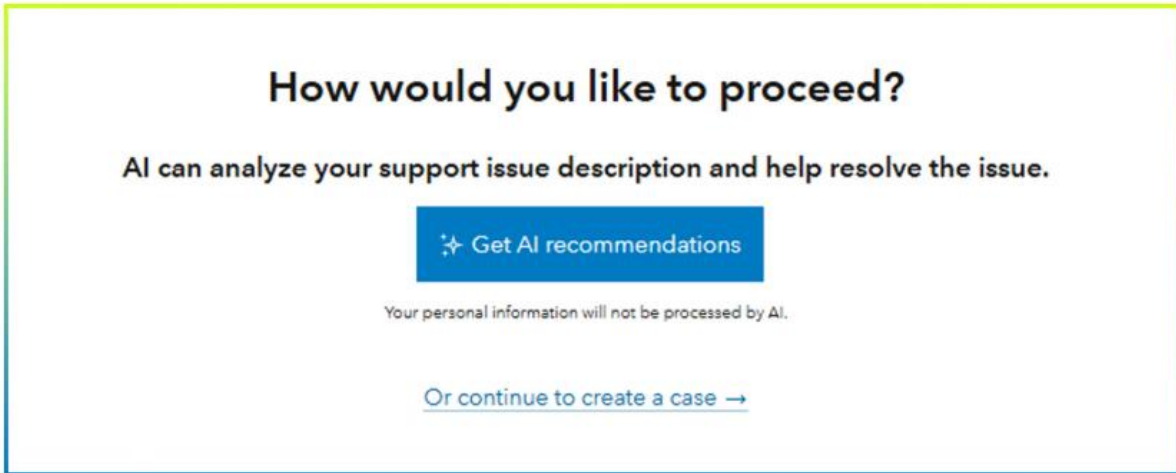
We've redesigned the form slightly. The Product details and Issue details fields will share a single, simple page. Fields which provided minimal value, like Operating system, are merged with detail fields.



Conversely, *Issue details* is expanded into three fields to encourage more detailed case submissions.

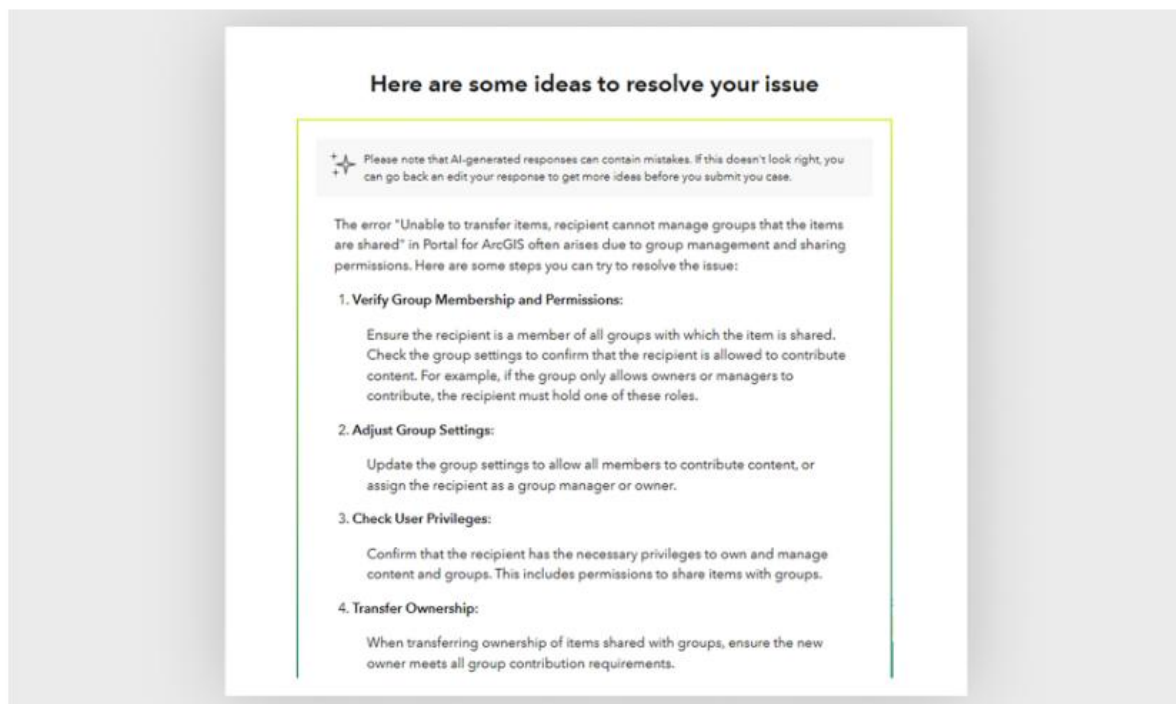


The most notable change comes after you fill out your case information. At the bottom of the form, you'll choose how you'd like to proceed: *Get AI recommendations* or *continue to create a case*.



How does AI enhance the case submission process?

When you choose Get AI recommendations, the same LLM that powers the Esri Support AI Chatbot will search our extensive library of technical information. It will locate information that could solve your problem and synthesize an answer.



With this information, you could have a solution to your problem nearly instantly, without having to wait to correspond with an analyst. If you're able to use the suggested solution, you can close the case easily from the same screen.

ESRI Articles

➤ **AI components (beta) for agentic mapping web applications**

Welcome to the first release of version 5! Packed with exciting upgrades – from a powerful new AI assistant to a redesigned documentation site – this release takes it to the next level. Dive into the highlights of Version 5.0 and see what’s new!

For more details, please find below weblink

<https://www.esri.com/arcgis-blog/products/js-api-arcgis/announcements/arcgis-maps-sdk-for-javascript-whats-new-in-5-0>

➤ **Introduction to Land Development Outreach**

Land Development Outreach can be used to manage and share land use data, development regulations and building activity.

Local governments and planning authorities rely on zoning ordinances, development applications, building permits, and public notices to manage land development information and communicate requirements to the community. As communities grow and land use regulations become more complex, property owners and developers often struggle to navigate fragmented development regulations and processes. Limited access to clear, authoritative data creates uncertainty, introduces friction, and increases the time it takes to develop, or improve, a property.

Many organizations maintain development regulation information across multiple systems and documents which makes it difficult to access, digest, and understand. A single, geographically-enabled, destination that provides access to development regulations helps property owners and developers understand permitted uses and relevant regulations, and facilitates development activities.

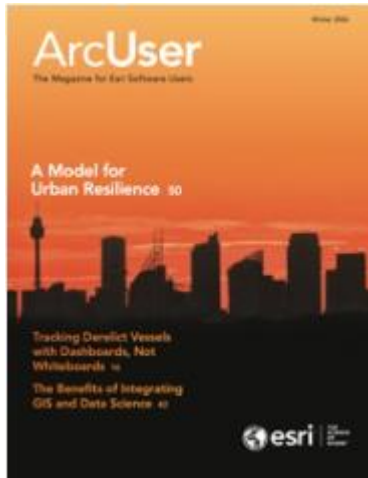
Please find details more @

<https://doc.arcgis.com/en/arcgis-solutions/latest/reference/introduction-to-land-development-outreach.htm>

<https://www.arcgis.com/apps/solutions/land-development-outreach>

https://mediaspace.esri.com/media/t/1_tbfci8av

ESRI Publications



ArcUser Winter 2026

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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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