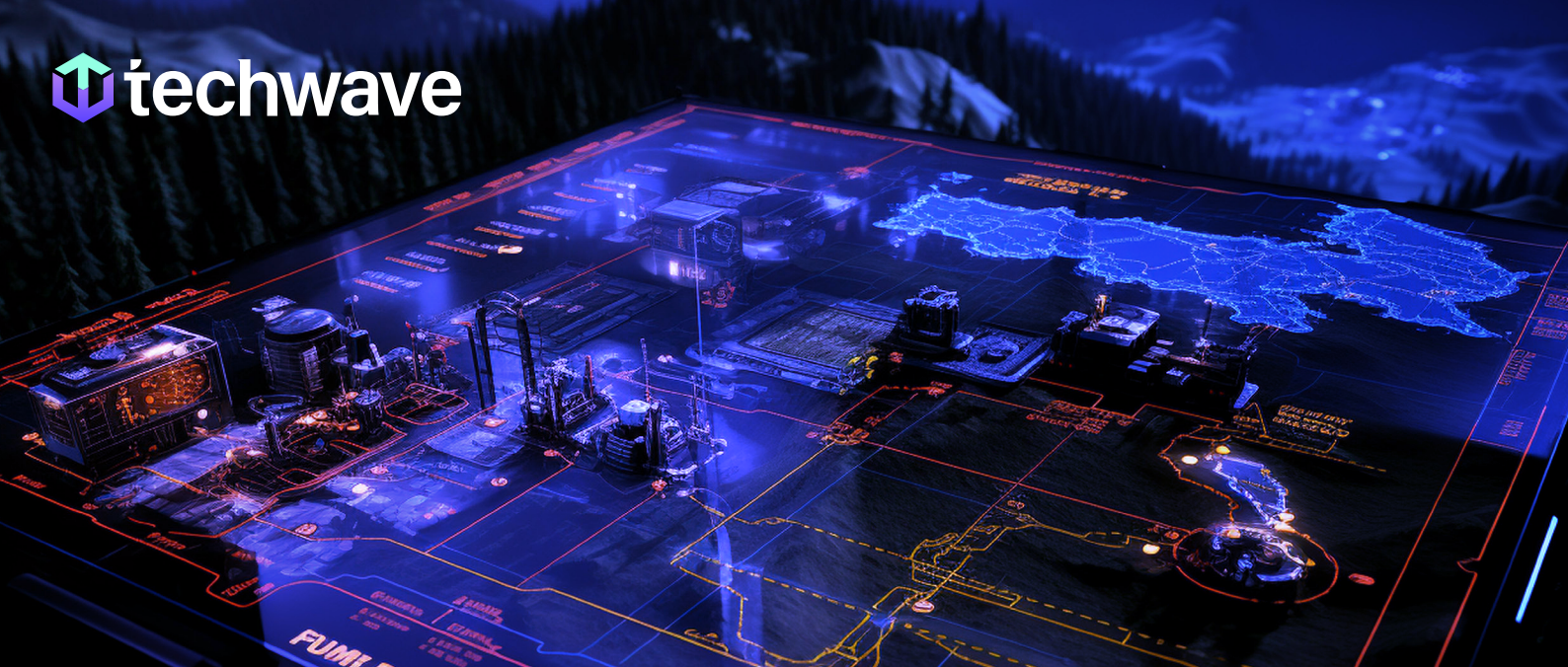




Utilities GIS Modernization through Esri Application Engineering

Utilities face growing demands for real-time data, mobile field access, and scalable infrastructure management. Modernization means moving away from legacy GIS tools to cloud-native, mobile-optimized applications that support these needs.

Esri application engineering is a critical enabler of utilities GIS modernization, supporting migration from legacy products, delivering the cloud-native, scalable, and mobile-optimized GIS tools utilities need to meet operational demands, improve efficiency, and drive digital transformation.

Why Migrate to Modern GIS Tools?

Growing demand for cloud services is pushing organizations to modernize legacy GIS apps. Mobile, real-time data and scalability are becoming a competitive advantage in managing infrastructure and field operations.

Traditional GIS tools have limitations in providing mobile-optimized, 2D/3D integrated and interactive experiences.

With field operations becoming more critical, organizations are increasingly demanding real-time data integration across mobile platforms.

Esri Migration to Modernize GIS

Esri migration introduces enhanced, unified tools built for performance, scalability and immersive GIS experiences.

ArcGIS Web AppBuilder

Migration

ArcGIS Experience Builder:
Modern responsive framework with 2D/3D integration and advanced widgets

ArcGIS Configurable Apps

Migration

ArcGIS Instant Apps:
Template-based app creation with modern UI and quick deployment

Map Viewer Classic

Migration

Map Viewer (ArcGIS Maps SDK 4.x)
Enhanced visualization, analytics, and performance

Esri Story Maps (Classic)

Migration

ArcGIS StoryMaps
Unified storytelling with maps, media, and narrative layouts

ArcGIS Insights

Migration

Analytics Modernization Path
Modern BI and dashboard integration options

Metadata Editor Classic

Migration

New Metadata Editor
Unified tool for consistent metadata management across platforms

Benefits of Migration

Leverage **ArcGIS Experience Builder (ExB)**, **ArcGIS Instant Apps**, **Map Viewer (ArcGIS Maps SDK 4.x)** and **StoryMaps** to modernize legacy tools like **Web AppBuilder**, **Map Viewer Classic**, and **Esri Story Maps (Classic)** to enable mobile-optimized real-time solutions.

Transition from **ArcGIS Insights (Classic)** to Esri's modern analytics platforms aligned with the **ArcGIS Enterprise 12.x roadmap** for advanced data analytics & integration.

Modern tools provide **scalable** solutions that grow with the utility's needs and can handle **large datasets and future expansion**.

Use **mobile-optimized apps** to collect **real-time field data**, ensuring better **asset management** and improved **field-to-office collaboration**.

Stay **compliant** with **regulatory requirements** through **modernized solutions** that support better reporting, auditing, and data security.

Techwave's End-to-End GIS Modernization Program



Assessment & Inventory

Review existing GIS apps & assess the alignment with Esri's future platforms.



Planning & Prioritization

Create a migration roadmap that aligns with Esri's product timelines for WAB, Map Viewer Classic.



Redevelopment & Migration

Rebuild apps using **Experience Builder (ExB)**, **ArcGIS Instant Apps**, and **StoryMaps** to take full advantage of modern tools.



Testing & Validation

Ensure seamless performance and **cross-platform compatibility**, focusing on **modern Esri platforms** like **ExB** and **Instant Apps**.



Deployment & Training

Guide teams on utilizing **ExB**, **Instant Apps**, and other modern Esri tools. Offer **training** on **responsive UI**, **2D/3D integration**, and **real-time analytics**.



Continuous Enhancement

Provide **ongoing support and enhancements** for migrated apps.