Esri ArcGIS in Azure: 3-Wk Proof of Concept





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GGS proof of concept

Esri ArcGIS in Azure: 3-Wk Proof of Concept

Esri ArcGIS in Azure Proof of Concept (POC) to evaluate risk and accelerate Azure cloud adoption.

GCS provides ArcGIS cloud migration services from assessing migration readiness to defining strategy to implementing Proof of Concept (POC) cloud deployments to evaluate your existing on-premise architecture to a comparable system in a cloud. We aim to help define and meet your specific cloud implementation objectives.

An ArcGIS Azure POC will introduce your organization to the benefits of an ArcGIS Azure cloud migration without risk and with minimal cost. POC testing is a common practice for technology adoption decision making. In isolation at a defined smaller scale, it allows you to evaluate one or more deployment scenarios before committing to a large migration.

GCS's team is comprised of certified ArcGIS and cloud professionals who are solution architects, system integrators, native cloud developers, data scientists, and professional project managers.

GCS PROJECT TIMELINE & DELIVERABLES

Agenda

Week 1: Assessment, Environment Preparation, ArcGIS Installation & Configuration

- Determine POC requirements via Cloud Readiness Assessment
- Identify ArcGIS business applications and data
- Identify ArcGIS COTS (ArcGIS Enterprise, ArcGIS GIS Server, ArcGIS GeoAnalytics Server, ArcGIS Data Store, ArcGIS Notebooks, ArcGIS GeoEvent Server, ArcGIS Image Server; Enterprise Geodatabases; virtualized ArcGIS Pro (Desktop)
- Identify deployment scenarios; replicated, auto-scaling, high-availability, geographic redundancy
- Define ArcGIS Enterprise security model
- Determine right size Azure resources
- Define ArcGIS Azure POC System Design
- Provision, install, configure ArcGIS COTS in Azure

Week 2: Migration

- Migrate ArcGIS Enterprise configuration, i.e. WebGIS DR
- Migrate POC spatial and non-spatial data
- Migrate POC business applications
- Validation of Migration

Week 3: Testing

- Execution of Testing Scenarios
- Validation of POC & Pilot objectives
- Closure and Next steps

GCS PROJECT TIMELINE & DELIVERABLES

Deliverables

- Bill of Material (BOM) with Azure Servers for selected ArcGIS system
- ArcGIS architecture diagram
- Azure infrastructure setup and configured ArcGIS System
- ArcGIS Proof of Concept workload running in Azure

Price: \$12,000 (Estimated)

Please contact GCS today to commence your ArcGIS Cloud Digital Transformation journey.

GCS



Microsoft Partner

Silver Application Development

GCS delivers highly customized solutions that communicate meaningful geographic information and enhance workflow optimization. Our clients come to us from a broad spectrum of industry sectors with a common need: streamlined access to business insights distilled from complex data. Our technical expertise and collaborative client relationships allow us to design the powerful, elegant solutions needed to maximize productivity. Our systems are crafted at the convergence of cloud, analytics, and mobility to ensure access to answers everywhere, all the time.

ABOUT GCS

Since 2002, we have delivered award-winning solutions for public and private organizations in diverse disciplines, including Natural Resources, Defense/Intelligence, Insurance, and all levels of Government.

We bring decades of technical expertise to the table in designing these customized geographic intelligence systems. For nearly 20 years, our award-winning team of experts has integrated and adapted best-of-class GIS platforms with cutting-edge technology to extract value from data, and opportunities from information. Dedicated teams work with clients for the life of a project to ensure the delivery of precise solutions for unique business challenges. Our ability to remain agile and responsive sets GCS apart from industry giants.

Clients choose GCS – and engage us again and again – because our solutions exceed their expectations, and because our team demonstrates unwavering commitment to harnessing innovation that works. In every project and for every client, we judge our success by the satisfaction of the people who use the solutions we craft for them.

GCS ABOUT GCS

With our solutions, clients will:

- Boost access to spatial data and tools by serving apps on the web or in mobile devices people regularly use
- Add geospatial context to previously unmapped data to produce new insights
- Optimize business processes and workflows
- Minimize data maintenance costs by establishing cloud databases
- Receive stable hosting and dynamically expanding user capacity
- Minimize cost by serving applications in the cloud
- Reduce expense and simply workflows through systems integrations
- Achieve insights and intelligence through advanced analytics
- Save time with intuitive, accessible public tools for non-GIS professionals

Solution Development Methodology

The GCS Solution Development Methodology (SDM) is a set of processes and document templates that guide our project management. This timetested method ensures our solutions meet consistent standards of quality, with many checks and balances, opportunities for client collaboration and feedback, quality assurance, and clearly defined milestones for delivering on any contract. This process, defined by the Project Management Institute (PMI), ensures success through:

- Enhanced product quality
- Better management of risks
- Dependable, productive communication with customers
- Improved control over project schedule and scope

The GCS SDM includes six project phases. We plan each project around these phases, to maintain quality, though individual projects may not require every document or a lot of tasks in every phase. Our complete SDM, listing all document templates and typical tasks, is available upon request.



GCS CLIENT OVERVIEW

We provide solutions to organizations of all sizes in both the private and public sectors, including agencies at all levels of government and Native American tribes. Our diverse clientele spans a broad spectrum of industries and professions, such as Natural Resources, Forestry, Defense/Intelligence, Insurance, Health Care, Cyber-Security and Energy. For every challenge, we create a fully customized solution.

County Government	Boulder County, CO Missoula County, MT	Flathead County, MT Lake County, MT
	Lewis and Clark County, MT	Clearwater County, ID
	Gallatin County, MT	
Local & State	Colorado State Land Board	Municipalities including:
	Clark Fork Coalition (River Health NPO)	City of Billings City of Columbia Falls City of Missoula
	Montana Information Technology Services Division	Montana Governor's Office of Economic Development
	Montana Department of Natural Resources and Conservation	Montana Department of Health and Human Services
	University of Montana	Montana Department of Fish, Wildlife, and Parks
	Montana Historical Society	Montana Dept. Transportation

GCS CLIENT OVERVIEW

While many of our clients are in the Rocky Mountain West and Pacific Northwest regions, we support clients as far away as Vienna, Austria.

Federal Government	U.S. Army - NVESD U.S. Marine Corps - 1 - MEF U.S. Navy - NUWC - NAVSEA USDA Foreign Agricultural Service U.S Fish and Wildlife Service	DOE - Idaho National Laboratory U.S. Geological Survey Army Corps of Engineers U.S. Forest Service - Fire Sciences Lab
Tribal	Kalispel Tribe of Indians	Fort Belknap Reservation
	Fort Peck Tribes	Nooksack Tribe
United Nations	International Atomic Energy Age	ency
[
Private Sector	Esri	Sarnoff Inc.
	The SI Organization OmniTRAX	GeoEye Weyerhauser
	PIAL	Idaho Survey and Rating Bureau
	GeoNav Group International	Oxford University Press
	Firewise Communities Program	Missouri Botanical Garden
	CACI Inc.	Immersive Media Inc.
	Alion Science & Technology Inc.	National Fire Protection Association
	Economic Development Lethbridge, Canada	Washington Survey and Rating Bureau
	Institute for Health Metrics and Evaluation	d Agren

GCS CLIENT PROFILES

Problem In 2016, Agren was looking to develop a web interface which would enable users to accomplish in minutes what farmers have traditionally waited weeks, to months, for from local public agencies. They wanted to empower farmers and land managers to make profitable decisions while simultaneously enhancing agricultural productivity and supporting sustainability.

Solution Working closely with Agren, GCS delivered, from the ground up, Agren's precision conservation suite of geospatial based web tools: WaterwayBuilder, PondBuilder, BasinBuilder, and WetlandBuilder. In addition, GCS supplemented Agren's internal agile development team to support operations and create new feature enhancements to SoilCalculator and BufferBuilder solutions.

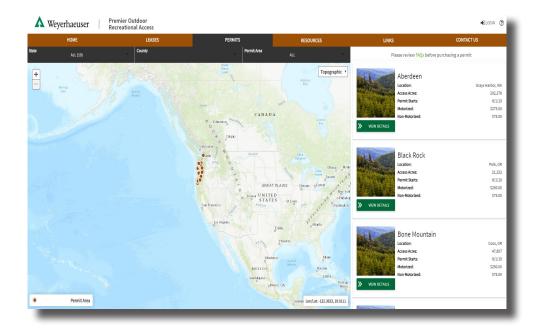
Agren SoilCalculator allows service providers to plug in various crop rotations, tillage systems, and conservation practices and view the resulting erosion predictions for up to three scenarios. Color-coded maps, similar to a GIS yield map, pinpoint areas of high erosion. Growers can easily evaluate alternatives side by side to maximize profits, conserve soil, preserve yields, and reduce nutrient inputs.



GCS CLIENT PROFILES WEYERHAEUSER

Problem Weyerhaeuser needed a simple, user-friendly, easily accessible way to market and manage leasable land for people looking to hunt, camp, fish, or engage in other recreational activities. They wanted a publicly-accessible web portal which would show areas on a map, display the type of forests available, and also display any accessible amenities available on the property.

Solution Weyerhaeuser contracted GCS to create Recreation Lease Management (RLM), a publicly accessible web portal that allowed the company to offer their land for lease and keep track of who was leasing it at any given time. GCS developed an interactive mapping portal which displayed all relevant information about the properties, as well as pricing and availability. This streamlined system helped Weyerhaeuser cut down on complicated, time-consuming tasks related to the leasing process, and made it easier for the public to find what they were looking for.







GCS CLIENT PROFILES

Montana DNRC

ProblemIn 2015, the Montana DNRC was searching for a new timber cruising
platform that would replace a legacy system that was no longer
supported by their IT department. The Esri ArcGIS Online/Collector
platform seemed to be a great fit, but they needed a contractor to
customize this off-the-shelf software to enable them to design
cruises and allocate plots via a web interface, collect tree data in
Collector, and compile/report the results.

SolutionThe DNRC partnered with GCS, and together we developed a project
called NextGen Cruiser. NextGen Cruiser entailed creating several
hosted geoprocessing tools which included complex formulas and
code. GCS kept in frequent contact with the DNRC to test builds of
the application; and in its completed form, even their most tech-
shy and skeptical foresters easily adapted to the new platform. It
quickly became their most reliable GIS/Web app. The DNRC used the
platform on hundreds of timber cruise projects without any issues.



"We found GCS to be: easy to communicate with, conscientious and mindful of budget & timelines, willing to provide advice when they discovered a better/more efficient way of accomplishing a task, and very supportive after the release to fix bugs."

- Mark Slaten, Forest Informatics Analyst, Montana DNRC