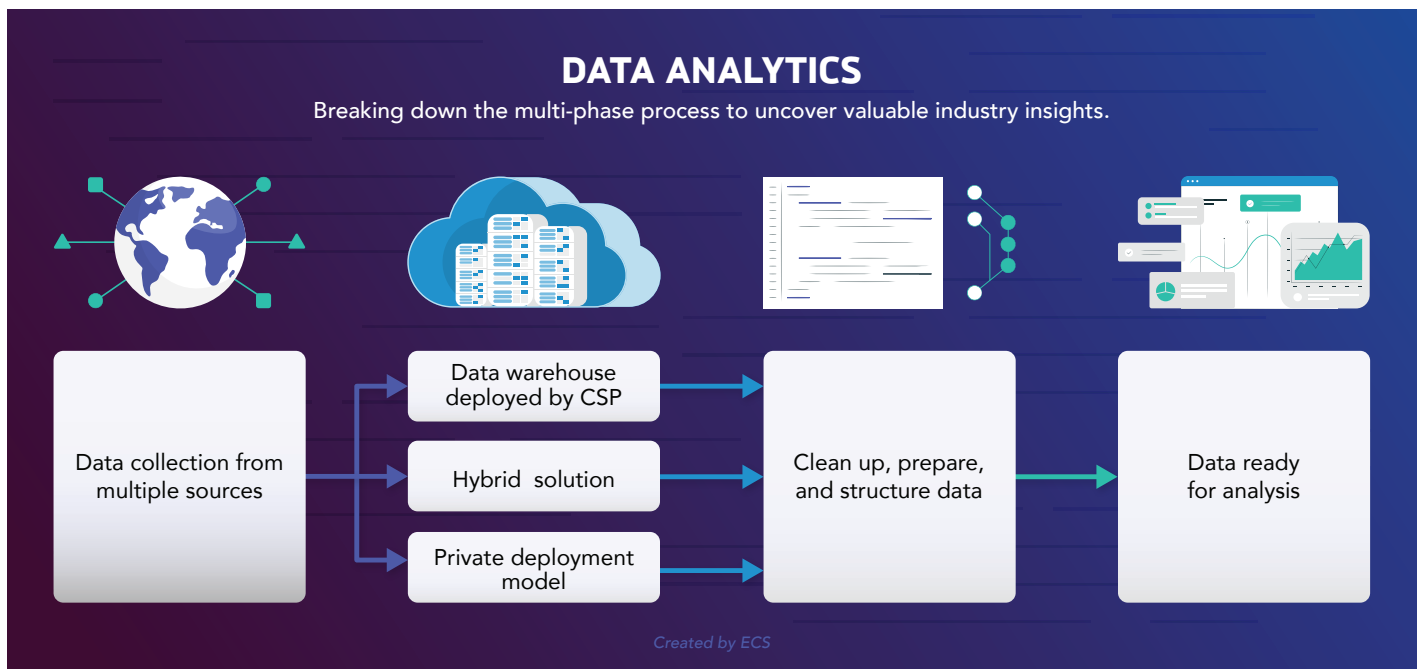# MAKING DATA DELIVER

The volume of data available to enterprise organizations grows larger every day. Alongside this growth, more and more tools, processes, and services are being introduced to meet the demand for data **analytics and artificial intelligence** (AI) solutions. Whether seeking to improve operations, optimize spend, or pursue new lines of business, government agencies and large companies alike are eager to leverage the latest technological advances to derive critical insights from data.

So, how can your organization benefit from these trends and accelerate the development of analytics and AI? It all starts with your approach to data.

DRIVING ANALYTICS SUCCESS

Data analytics is more than simply "running numbers." It is a multi-phase process which requires diligence and skill at every step. After mapping and collecting data from multiple sources, organizations must determine the right platform to meet their storage needs—whether a data warehouse deployed by a **cloud service provider**, a **hybrid solution**, or a private deployment model. From there, data must be cleaned up, prepared, and structured for analysis. Only then can data scientists begin to query the data in order to uncover valuable insights.

The phases of analytics can be characterized as data acquisition, data engineering, data science, and data consumption. Organizations can falter in any of these steps. They can fail to map the data correctly, conflate the business problem and misapply analytic solutions, or fall into the mire of analysis paralysis. While some companies may employ an internal team to perform in-house analysis, others turn to trusted solution providers like ECS who bring the experience and proven capabilities to meet their data analytics needs.

DATA ANALYTICS
Breaking down the multi-phase process to uncover valuable industry insights.

Data collection from multiple sources →
- Data warehouse deployed by CSP
- Hybrid solution
- Private deployment model

→ Clean up, prepare, and structure data → Data ready for analysis

Created by ECS

ECS has been a leading provider of data analytics solutions for over 20 years. We are the federal government's first Certified Analytics Professional (CAP) preferred employer, and our work has been recognized by top technology companies: we have been awarded seven **Microsoft Gold competencies**—the highest level of certification—including the data analytics competency, with specializations such as business intelligence, advanced analytics, data science, and big data. Our **Amazon Web Services (AWS)** machine learning (ML) competency recognizes the innovative data analytics and ML solutions built by our team of certified cloud solution architects and expert data scientists. These solutions draw on advanced capabilities ranging from computer vision and speech and language analysis to deep-learning algorithms.

Enterprises across the government and commercial marketplaces rely on our experienced analytics teams for guidance and support. Recent engagements include working with a large state agency to analyze healthcare data on claims and usage, building a complex data warehousing and storage solution for a large federal agency, and helping a Department of Defense customer **autonomously control the flight and sensor capabilities of an unmanned aerial vehicle (UAV)**.

Whatever your data and AI needs, ECS' teams of data professionals are ready to help you design, implement, an manage expert advanced solutions to meet your mission goals.

Interested in learning more? Reach out and **talk to an expert today.**

ECS is a leading information technology provider delivering solutions in cloud, cybersecurity, software development, IT modernization, and science and engineering. The company's highly skilled teams solve critical, complex challenges for customers across the U.S. public sector, defense, and commercial industries. ECS maintains partnerships with leading cloud and cybersecurity technology providers and holds specialized certifications in their technologies.

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