Bridging the data divide

Optimizing data solutions for data-driven culture transformation

TEKSOUTH

Microsoft Azure

The "rush" for Big Data

The Big Data boom has both private and public sectors scrambling to capture as much relevant digital information as possible.

As this uniquely modern practice becomes normalized across all industries, it is being widely portrayed as a digital Gold Rush—and with good reason: there is significant value lying in the vast repositories of data that we are only just beginning to mine.

But operations that prioritize data-harvesting are now facing a challenge that is also in line with this analogy: gold—in its natural state—isn't close to its peak value. It requires highly specialized processing and refinement to become market-ready.

Similarly, in the rush to acquire as much analytical insight as possible, organizations have focused much of their energy and resources on raw data capture without realizing the need for an organized, functional architecture to properly store data for interpretation.

Ineffective data management presents tangible harm to businesses, and it's far more widespread than most expect. In fact, 80% of companies report high or moderate degrees of data siloing; 66% experience some degree of shadow (or rogue) data repositories, and 69% are unable to provide a comprehensive, single customer view.

Without proper, holistic shaping, this segregated data can present misleading or conflicting information, and lead to detrimental business decisions. Where, then, can businesses turn to ensure that their data is being collected methodically and in a format that lends itself easily to deep insight and analysis?

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The new data mandate: organized + secure.

The next generation of data-management solutions are built around the major needs of enterprise organizations in the digital age. As IT increasingly becomes the lifeblood of modern business, that makes reliability paramount. Yes, in terms of systems availability and uptime—but also scalability, security, and compliance.

For agencies operating in the public and educational sectors, these latter attributes are particularly imperative.

Federal and educational institutions require the highest levels of availability for their services, as many of them are either directly public-facing or deliver outcomes with significant public impact.

They also receive heightened public scrutiny for legal compliance and data lineage, and experience an increased likelihood of cyberattack. In 2017, over 35,000 information-security incidents were reported by the federal executive branch alone.

For these agencies, data must not only be organized effectively—it must have airtight security. As more businesses look to the cloud to complement or replace their on-prem IT architectures, the appropriate data-management solution has native compatibility with a cloud provider who can also promise security, scalability, and availability built into their SLAs.

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Data solutions trusted by the USA's top federal agencies

Responding to this need for organized, secure data management, Teksouth is bringing their centralized enterprise decision support platform to the commercial marketplace.

Teksouth's EntelliFusion is a comprehensive, end-to-end solution that has, until now, solely been applied to high-level federal agency decision support. As such it natively aligns with government and educational agencies' needs for high-level data availability and rigorous security.

EntelliFusion deftly addresses the challenges posed by data siloing, providing a platform that integrates data from varying sources and enables modelling for powerful insights and AI applications.

It does so through an advanced ETL engine and modern data warehouse that guarantees scalability, performance, and reliability. This ETL architecture allows EntelliFusion to model data from disparate sources effectively and account for the changing properties of these sources.

EntelliFusion™

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Data solutions trusted by the USA's top federal agencies (continued)

EntelliFusion's technology was "military-born"—it has proven successful against the strenuous demands of the USA's top echelon of military operations. In this capacity, it was massively scaled across the DOD for over twenty years. In one instance, EntelliFusion has successfully managed financial and operational data analytics and decision support by integrating nineteen different systems for nearly 10,000 users running more than 18.7 million ad-hoc queries annually— all with 99.99% uptime over 15 years of operation.

As a partner to the Department of Defense, EntelliFusion meets the world's highest compliance requirements while providing a solution that customizes to any organization's specific data requirements and needs.

And by partnering EntelliFusion with Microsoft's range of complementary technologies, its full capabilities can be realized as it continues to be innovated.

EntelliFusion. Facilitating change.

EntelliFusion delivers data-readiness for analytics and business intelligence that's necessary for competing in today's data-driven business landscape. It's also the best place to begin future-proofing for AI & machine learning capabilities across an entire enterprise, with the following features:

- Fully managed service
- Infinite scalability
- Full stack infrastructure
- Agile development
- Free ad-hoc web app
- Data agnostic
- Custom user levels
- Compression and encryption

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Azure Government:
armoring your data streams

When organizations need to heighten and power the robust SLAs of Microsoft's business tools, they look to Azure Government.

Azure Government provides unparalleled flexibility and breakthrough innovations for US government agencies and their partners. Specifically, Azure Government is tailored towards agencies who seek:

- **World-class** security, protection, and compliance

- **Modernized** legacy infrastructure that inhabits a flexible, hybrid environment

- **Additional workload capacity** whenever—and wherever—it's needed

- **Increased efficiencies** and cost savings across departments

Not all high-security cloud solutions are created equal. Azure Government leads the field, by providing:

- **Government exclusivity.** Only US federal, state, local, and tribal governments and their partners have access to this dedicated instance with operations controlled by screened US citizens.

- **Broadest compliance and Level 5 DoD approval.** Choose from six datacenter regions, all granted an Impacted Level 5 Provisional Authorization. And, Azure Government offers the most compliance certifications of any cloud provider.

- **Hybrid flexibility.** Control the timing and implementation of your digital transformation. If you choose, you can keep select data and some functionality on-premises.

- **Perpetual innovation.** Gain new, cutting-edge capabilities with IoT technologies, data analytics, and high-performance computing.

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Azure Government: armoring your data streams (continued)

All this comes in addition to Azure's foundation of industry-leading cloud provision. Azure's secure, scalable, and unified cloud environments help form a coherent and well-integrated data solution for connecting information from disparate applications and improving operations.

Azure's AI and machine learning capabilities are instrumental in eliciting high-relevance data. Azure is also the only consistent hybrid cloud, has more regions than any cloud provider, and delivers unparalleled developer productivity.

Security is high priority for Azure, to the tune of an annual investment of over $1 billion USD for security R&D and a team of more than 3,500 cybersecurity experts.

Azure provides multi-layered security across physical datacenters, infrastructure, and operations with active security monitoring to protect your business assets and data. On top of securing your information, Azure pledges an uncompromising commitment to privacy.

Microsoft Azure. Dedicated to data protection.

90+ compliance offerings:
the largest portfolio in the industry

95% of Fortune 500 companies
trust their business on Azure

$1 billion investment per year
to protect customers' data from cyberthreats

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Teksouth and Microsoft: bridging the data divide

For cohesive, centralized, easily accessed data in a secure, advanced, high-availability environment, optimize Teksouth's EntelliFusion data solution by hosting it on Azure's multi-hybrid cloud platform.

If your business or agency is ready to strategically maximize its data relevance and prepare it for seamless analytical insight, reach out to Teksouth about their EntelliFusion solution.

EntelliFusion is designed for a deployment that includes the subject-matter experts within your organization to create a solution that's customized for your specific requirements and makes the most of your insight tools and AI capabilities.

Start with a consultation to gain a mutual understanding of your organization's current data-management scenario and discuss opportunities to overcome the challenges that are keeping you from achieving your business vision.

Click below to get started.

Reach out to Teksouth

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