



# Data Platform and Analytics Foundation

Turn fragmented data into trusted insights



## Scalable analytics depend on secure, well-governed data.

As organizations expand analytics and AI initiatives, many struggle to extract value from data spread across systems, formats, and teams. Fragmented access, limited governance, inconsistent security controls, and performance bottlenecks slow insight delivery and decision-making while increasing security and compliance risk.

Cloud-native platforms are designed to address this complexity by consolidating data and enforcing consistent governance and access controls. But realizing their full value requires more than deploying services; success depends on how well data architecture, governance, and performance align with business demands.

SHI's Data Platform and Analytics Foundation bridges this gap. By architecting and implementing a secure, scalable data platform on AWS, SHI enables analytics without sacrificing governance. Leveraging AWS-native services such as Amazon Athena, Amazon EMR, Amazon Redshift, Amazon S3, AWS Glue, and AWS Lake Formation, SHI helps teams unify data access, enforce controls, and accelerate insight delivery.

## Key benefits

- 1 Unified, governed access to data**  
A centralized data lake and catalog provide consistent visibility across data sources, while Lake Formation enforces fine-grained access controls to ensure secure data sharing.
- 2 Faster time to insight**  
Analysts and data teams gain self-service access through Athena and Redshift, reducing dependency on manual processes and accelerating analytics delivery.
- 3 Security and compliance by design**  
Encryption with AWS KMS, row- and column-level controls, and IAM-based access models ensure sensitive data is protected and auditable.
- 4 Scalable platform for analytics and AI**  
The foundation supports batch, interactive, and big data processing today—while enabling future expansion into machine learning, real-time analytics, and data products.
- 5 Predictable cost and performance**  
Architected cost models and tiered storage help teams balance performance requirements with cost efficiency as data volumes grow.

### With SHI, you can drive tangible outcomes in 90 days

- Establish a functioning data platform with cataloging, governance, and baseline security
- Deliver initial data pipelines and analytics queries that drive business value
- Define a roadmap for scaling performance, analytics use cases, and cost optimization



## Delivery methodology

Within weeks, SHI helps you establish a governed data foundation, deploy initial pipelines and analytics workloads, and gain a clear roadmap to scale advanced reporting and AI with confidence.



### Assess (Phase 1)

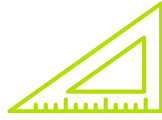
We review your current data landscape to understand platform readiness, governance needs, and performance expectations.

#### How we do this

- Assess data sources, consumers, and usage patterns
- Review platforms, tooling, and architectural limitations
- Evaluate governance, security, and compliance requirements
- Analyze performance targets, SLAs, and cost expectations

#### What we deliver

Current-state assessment and platform requirements



### Architect (Phase 2)

We design a target-state data platform blueprint aligned to your business requirements, security expectations, and scalability goals.

#### How we do this

- Define ingestion, storage, processing, and consumption layers
- Design security controls, including KMS, IAM, and row- and column-level access
- Establish networking, account structure, and isolation models
- Model cost, performance, and scaling considerations

#### What we deliver

Reference architecture, governance model, and cost estimate



### Build (Phase 3)

We stand up core platform components and deploy initial analytics workloads to establish an operational foundation and deliver early value.

#### How we do this

- Implement a data landing zone, including S3 buckets, catalogs, IAM roles
- Build one-two ingestion pipelines using Kinesis, MSK, or DMS
- Provision analytics sandboxes using Amazon Athena and/or Amazon Redshift

#### What we deliver

Operational data platform foundation and pilot analytics workloads

**Accelerate your cloud journey.**

Schedule an evaluation with our experts today to solve what's next. Contact SHI's dedicated partner team at [AWSOperations@SHI.com](mailto:AWSOperations@SHI.com)