Spyglass MTG

Fabric Solution in 45 Days + LOOM

Health Analytics

Spyglass's Fabric Solution in 45 Days + LOOM (FAi45 + LOOM)

Spyglass Fabric Implementation Journey:

Spyglass MTG's implementation of Fabric is a transformative journey that begins with ideation, seamlessly progresses to an MVP, and culminates in robust cloud-scale adoption.
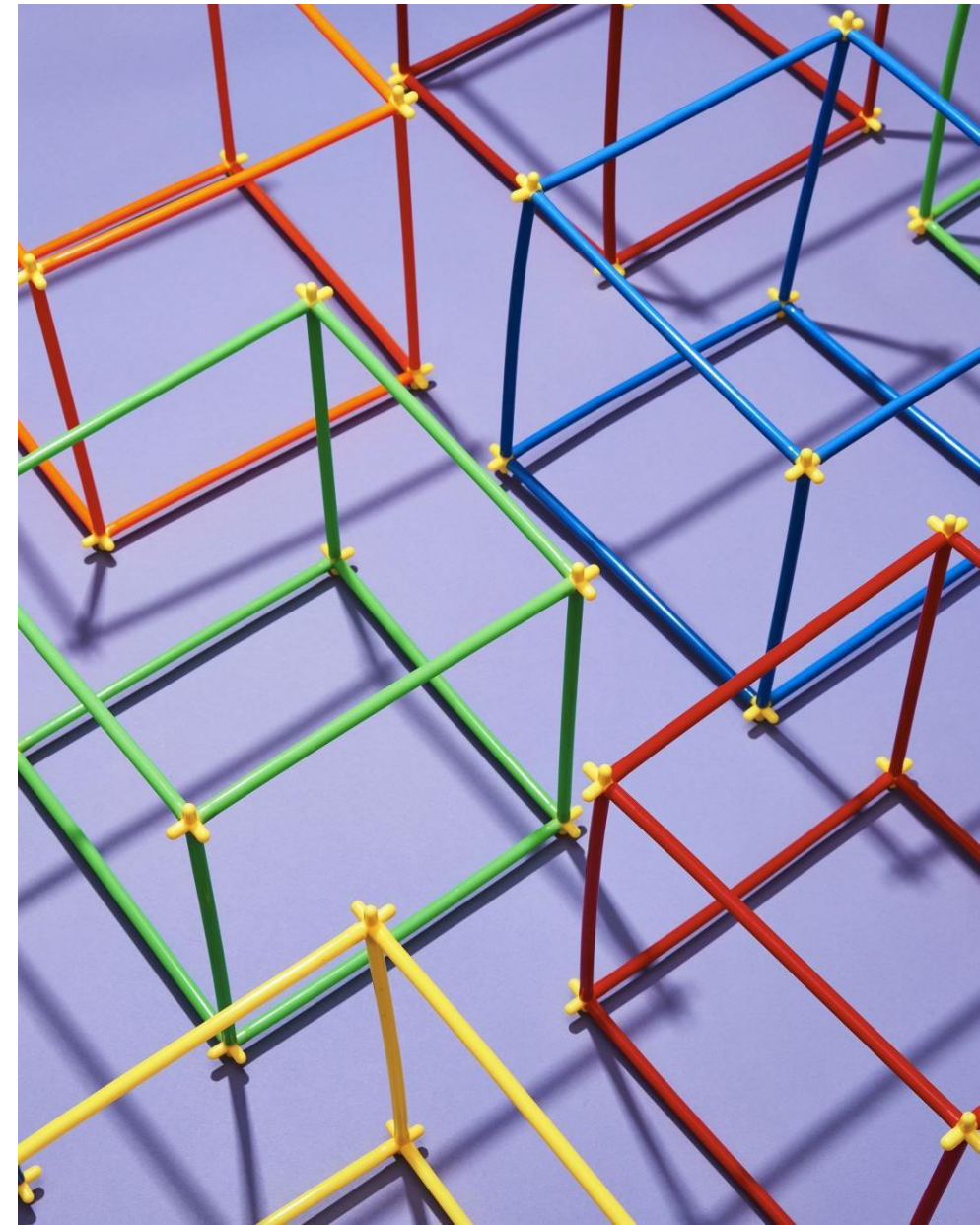
Leveraging Microsoft Fabric, Spyglass MTG integrates cutting-edge cloud-scale analytics and data mesh approaches, ensuring comprehensive and efficient data management.

This holistic approach ensures that clients not only meet but exceed their analytical and operational goals, driving innovation and growth in the ever-evolving digital landscape.
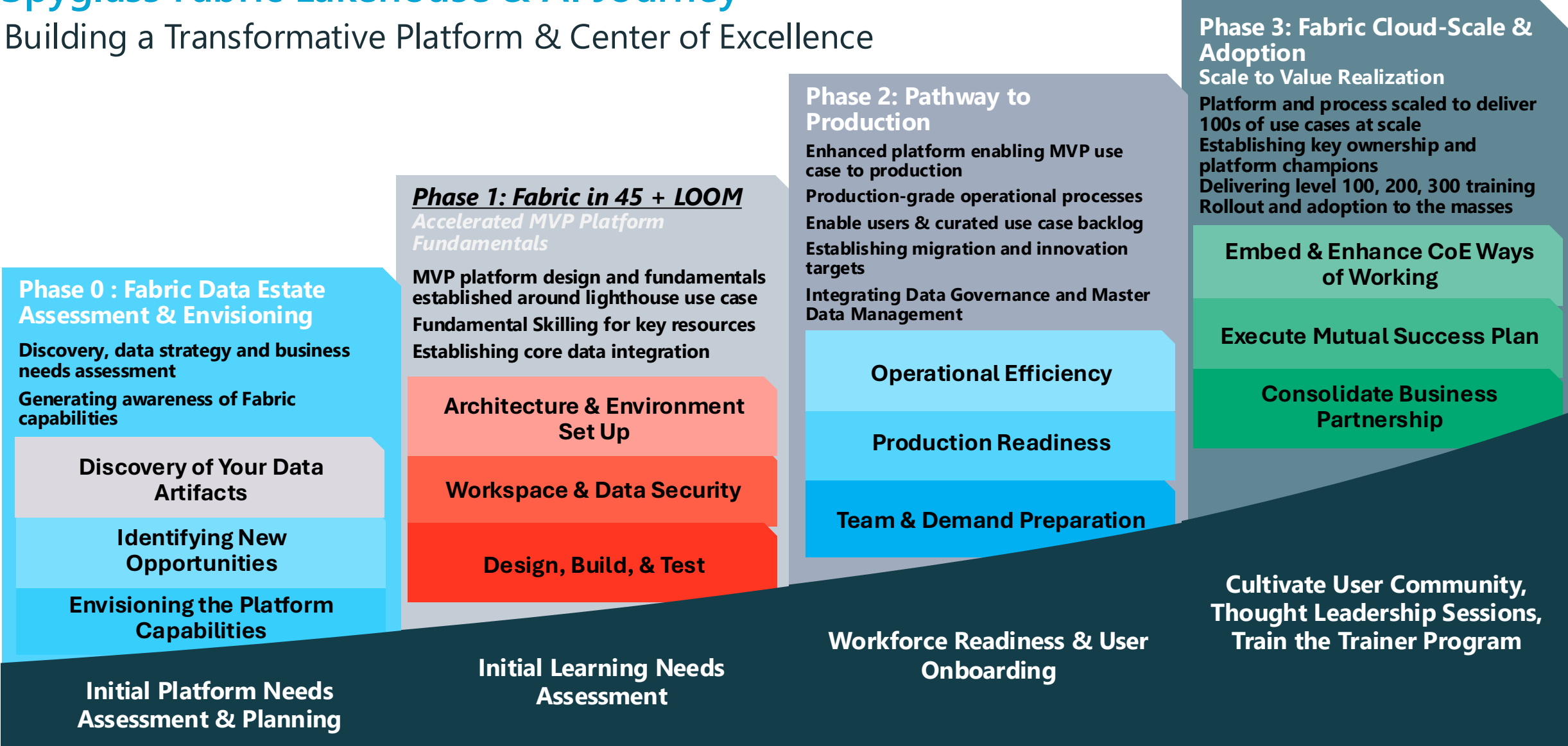
LOOM: A key differentiator:

The Spyglass LOOM production ready accelerator, modernizes data integration processes, combined with years of unparalleled expertise in the field and brings months of development work into day 1 activities.

Spyglass' Fabric Solution in 45 Days (FAi45) with LOOM is a fast-track, vetted offering tailored to accelerate your journey and boost your return on investment immediately.
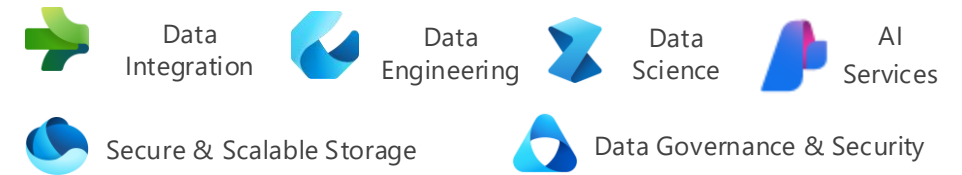
Spyglass Fabric Lakehouse & AI Journey

Building a Transformative Platform & Center of Excellence

Phase 3: Fabric Cloud-Scale & Adoption
Scale to Value Realization

Platform and process scaled to deliver 100s of use cases at scale
Establishing key ownership and platform champions
Delivering level 100, 200, 300 training
Rollout and adoption to the masses

Embed & Enhance CoE Ways of Working

Execute Mutual Success Plan

Consolidate Business Partnership

Phase 2: Pathway to Production

Enhanced platform enabling MVP use case to production
Production-grade operational processes
Enable users & curated use case backlog
Establishing migration and innovation targets
Integrating Data Governance and Master Data Management

Operational Efficiency

Production Readiness

Team & Demand Preparation

Phase 1: Fabric in 45 + LOOM
Accelerated MVP Platform Fundamentals

MVP platform design and fundamentals established around lighthouse use case
Fundamental Skilling for key resources
Establishing core data integration

Architecture & Environment Set Up

Workspace & Data Security

Design, Build, & Test

Phase 0 : Fabric Data Estate Assessment & Envisioning

Discovery, data strategy and business needs assessment
Generating awareness of Fabric capabilities

Discovery of Your Data Artifacts

Identifying New Opportunities

Envisioning the Platform Capabilities

Initial Platform Needs Assessment & Planning

Initial Learning Needs Assessment

Workforce Readiness & User Onboarding

Cultivate User Community, Thought Leadership Sessions, Train the Trainer Program

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Spyglass Fabric in 45 with LOOM (FAi45 for Health Analytics)

Data Integration   Data Engineering   Data Science   AI Services

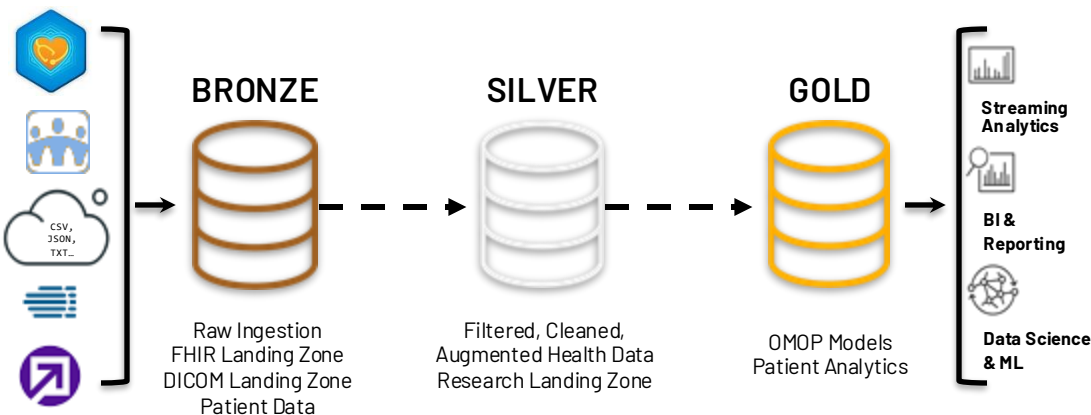Secure & Scalable Storage   Data Governance & Security

Spyglass' Fabric Solution in 45 Days (FAi45) with LOOM for Health is a fast-track service for creating a Fabric Solution in healthcare data environments. Our methodology establishes a robust Microsoft Fabric Solution framework for health analytics, making data integration quick and seamless.

Using Spyglass' Fabric LOOM, Fabric for Health **accelerates sourcing from EPIC and other health systems**. Our approach ensures quick and seamless data integration. With prebuilt templates and best practices tailored for health organizations, your solution will be operational in just 6 weeks!

Deliverables:
Spyglass will deliver a full Fabric Solution in 45 days/6 weeks

- Governed Health Data Landing Zone on Fabric
- Data Lakehouse Platform & Health Data Integration
- Production Plan & Roadmap

BRONZE
Raw Ingestion
FHIR Landing Zone
DICOM Landing Zone
Patient Data

SILVER
Filtered, Cleaned, Augmented Health Data
Research Landing Zone

GOLD
OMOP Models
Patient Analytics

Streaming Analytics

BI & Reporting

Data Science & ML

Key Benefits

Enhance Data Insights:
- Unlock Hidden Value: Accelerate data extraction from EPIC and other data sources enabling deeper insights from your health data.
- Advanced Analytics: Apply custom models and AI applications for smarter decision-making.
- Scalable Framework: Adapt insights to meet growing data and business needs.

Rapid Development of Data & AI Applications:
- Seamlessly Integrate Data Sources: Connect to diverse data repositories, including structured and unstructured data.
- Accelerate Deployment: Utilize pre-built frameworks and tools to reduce time and bring data & AI solutions to production faster.

Timeline

Weeks 1 & 2: Design and deliver data model, analytical solution, data product, or AI service to meet business needs, including defining key metrics and success criteria

Weeks 3 & 4: Utilize Fabric LOOM to automate generation and deployment of data pipelines and activities in a Microsoft Fabric environment with deliverables including code repositories and a fully functional data processing architecture

Weeks 5 & 6: Monitor and optimize performance, reliability, and scalability of data pipeline, product, and service, providing education and documentation for management and maintenance, with deliverables including performance, reliability, and scalability reports, educational sessions, and deployment guide

FAi45 for Health Use Cases

Level 9	Direct-to-Patient Analytics & Artificial Intelligence
Level 8	Personalized Medicine & Prescriptive Analytics
Level 7	Clinical Risk Intervention & Predictive Analytics
Level 6	Population Health Management & Suggestive Analytics
Level 5	Waste & Care Variability Reduction
Level 4	Automated External Reporting
Level 3	Automated Internal Reporting
Level 2	Standardized Vocabulary & Patient Registries
Level 1	Enterprise Data Operating System
Level 0	Fragmented Point Solutions

Spyglass FAi45 + LOOM Approach

Strategy & Plan: Governance, Analytics, & Architecture Workshops

- **Identify the who, what, when, and why:** Kick off the project with a comprehensive inventory review. This is where we set the stage for success by understanding every detail.
- **Envision the role of Fabric solutions in your organization:** Picture how Fabric can revolutionize your operations. This is about seeing the future today.
- **Identification of Advanced Analytical Scenarios:** Dive deep into your data estate, infrastructure, applications, workloads, and data scenarios. We scope out the transition requirements with meticulous precision.
- **Analyze the compliance, security, and governance implications of Fabric:** Ensure your innovation is secure, compliant, and governed to the highest standards.

Ready & Govern: Implement Fabric Governance, Security & Data Integration with LOOM

- **Revise and Deploy the MVP Fabric LOOM framework:**
  - Lays the foundation for robust data governance with our cutting-edge MVP framework.
  - Provisions the MVP security framework for workspace and data asset management.
  - Deploys the MVP framework to safeguard your data assets and workspaces.
  - Establishes connectivity for the data solution ensuring your data solution is flawlessly connected.

Design & Innovate: Envision & Craft the Future

- **Model the data:** Deciding how your data should be organized, accessed, and stored—this is where structure meets innovation.
- **Design your Fabric data solution:** Architect your data solution to host and optimize your data with precision.
- **Design new Business Intelligence insights:** Innovate with new insights that drive informed decisions.
- **Review additional scenarios and develop a roadmap:** Tailor a roadmap to your business goals, optimizing every step of the way.

Empower & Transition: Learn & Scale

- **Transition:** Transition smoothly, getting your solution into users' hands, gathering feedback, and refining based on real-world use.
- **Education and hand-off:** Empower your team throughout the project lifecycle with hands-on training and seamless hand-offs.

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Spyglass Fabric LOOM
Large-Scale Optimized Orchestration Model

Spyglass Fabric LOOM a **pre-built solution accelerator that utilizes Microsoft Fabric** to handle the provisioning, configuration, orchestration, and governance of data pipelines.

With Spyglass' Fabric LOOM accelerator and framework, **we can deploy and integrate customer data in a matter of hours**, allowing you to securely manage and ingest data from on-premises, private and public sources into a best-practice data solution.
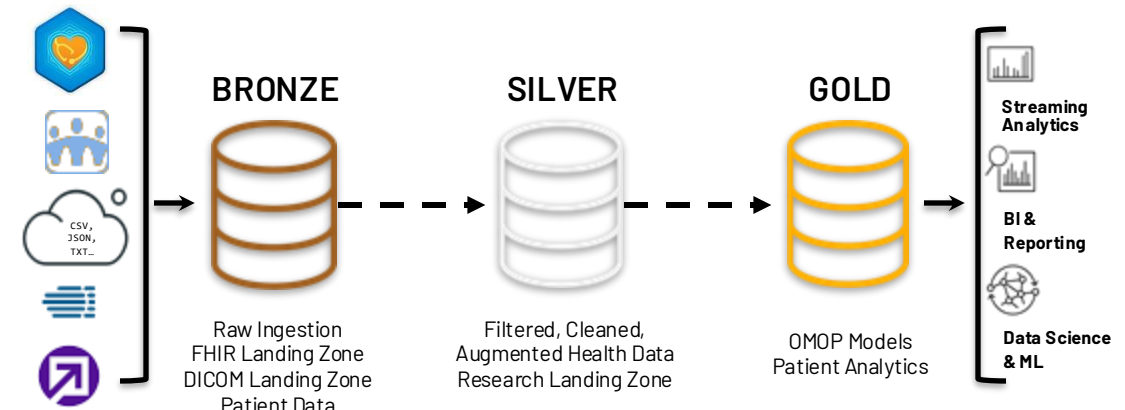
LOOM will **dramatically simplify your multi-modal data orchestration** supporting ingestion, cleansing, cracking, validation, chunking, transformation, enrichment, aggregation, indexing, and visualization

Key Capabilities

- Dynamic Metadata-Driven Framework
- Modular Data Cleansing Rules
- Multi-Model Data Processing for AI
- Seamlessly Extensible for Any Data Source
- Integrated Data Quality and Process Reporting
- Automated Secure Tenant Baseline & Governance Framework

Key Benefits

- **Accelerated Time-to-Market:** Pre-built components and seamless integration help customers quickly develop and deploy analytical, AI, machine learning, and generative AI solutions, achieving results faster.

- **Unified Data & AI Ecosystem:** Consolidate your Data, AI, machine learning, and generative AI initiatives into a single data ingestion framework with robust data orchestration, governance, and infrastructure management for complete efficiency.

- **Cost Efficiency and Scalability:** Save time and resources with a pre-built solution accelerator. Spyglass LOOM scales with your organization's needs, ensuring long-term cost efficiency.

- **Future-Ready Foundation:** Easily customize stage activities using templates, modules, parameters, or custom plug-ins. Quickly onboard new data sources within minutes

- **Security and Governance at the Core:** Monitor data processes with built-in dashboards, alerts, and visibility into data quality, performance, errors, and recovery. Benefit from our tenant-level Fabric governance baseline for scalability, reliability, and security.

BRONZE — Raw Ingestion, FHIR Landing Zone, DICOM Landing Zone, Patient Data

SILVER — Filtered, Cleaned, Augmented Health Data, Research Landing Zone

GOLD — OMOP Models, Patient Analytics

Streaming Analytics · BI & Reporting · Data Science & ML

LOOM has an estimated production value of $200k in services and is integrated into our service offerings for all our clients at no additional charge.

FAi45 Project Toolkit

- Spyglass Fabric LOOM for Health Accelerator
- Governance First Adoption Framework
- Solution Design Templates
- Planning and Delivery Checklists
- Practical Development Practices
- Successful Architecture Design Patterns
- Capacity Assessment and Planning Tools
- Security and Compliance Checklists
- Performance Management Checklist
- Experienced Deployment Engineers
- Fabric Solution Delivery Templates

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Spyglass FAi45 + LOOM Value Adds

- **Governance** – Establish a governance framework the right way; before it gets out of hand!

- **Time to Market** – Achieve faster and more accurate insights and predictions with development ROI that is 2-10x faster.

- **Flexibility** – Utilize your current data sources to maximize existing investments and ensure scalability to grow with your business.

- **Repeatability** – Leverage Spyglass's proven methodology and templates for repeatable processes and accelerators to speed up the development of your solution.

- **Project Savings** – LOOM provides upwards of $200k in project savings and accelerates delivery time by several months.

Contact Us:

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