LIXARDRIVEN
BYDATAPREMIER AI & DATA COMPANY

Jumpstart your Data Modernization Journey with SYNAPSE JUMPSTART

WHAT IS SYNAPSE JUMPSTART?

The **Synapse Jumpstart Proof-of-Concept (PoC)** is a pilot analytics project designed to start your data modernization journey off on the right foot. Leveraging the power of **Microsoft Synapse Analytics, Azure Purview, and Power BI**, this PoC will take you from web-based applications to the cloud, and show you how your most valuable resource – your data – can be turned into meaningful, interactive insights, in just a matter of weeks.



WHY SYNAPSE JUMPSTART?



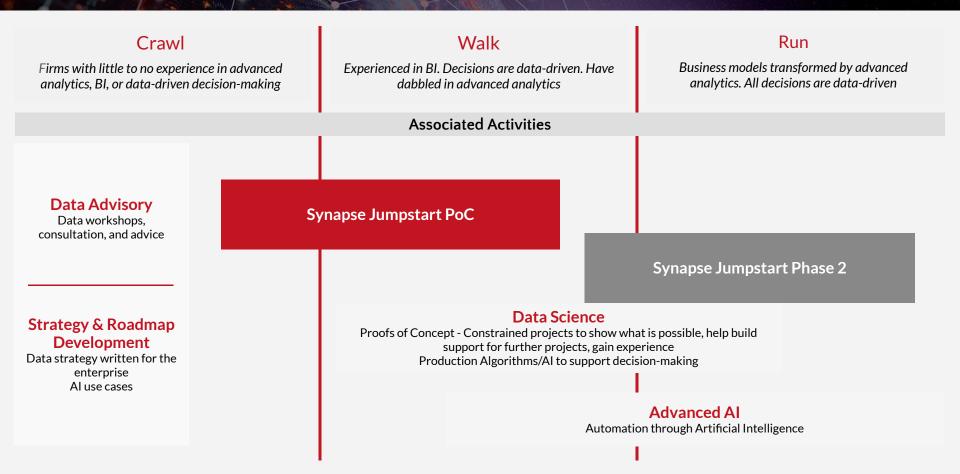
Key Value Propositions of the **SYNAPSE JUMPSTART PoC**:

- **Lower the costs** of creating and maintaining a secure data engineering pipeline at scale
- Accelerate innovation and increase business agility with data modernization success
- Gain insights faster with reliable, high-volume ingestion of hybrid data
- **Increase productivity** and do more with existing resources by leveraging the right partners and tools

THE DATA JOURNEY

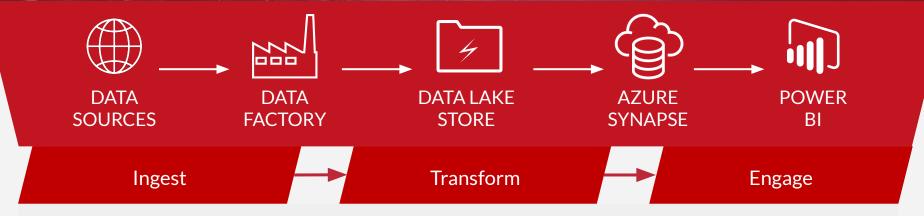
Crawl Firms with little to no experience in advanced analytics, BI, or data-driven decision-making		Walk Experienced in BI. Decisions are data-driven. Have dabbled in advanced analytics	Run Business models transformed by advanced analytics. All decisions are data-driven	
Associated Activities				
Data Advisory Data workshops, consultation, and advice	Leveraging data visu Data El	Visualization valization tools to explore your data ngineering / Infrastructure Hadoop ecosystem, data pipeline, APIs Cloud		
Strategy & Roadmap Development Data strategy written for the enterprise Al use cases		support for further projects, gain of Production Algorithms/Al to support d	Data Science oofs of Concept - Constrained projects to show what is possible, help build support for further projects, gain experience Production Algorithms/Al to support decision-making Advanced Al Automation through Artificial Intelligence	

THE DATA JOURNEY



SYNAPSE JUMPSTART





Synapse's industry leading price-performance comes from leveraging the Azure ecosystem and core SQL Server engine improvements to produce massive gains in performance.

These benefits require no customer configuration and are provided out-of-the-box for every data warehouse

- Gen2 adaptive caching using non-volatile memory solid-state drives (NVMe) to increase the I/O bandwidth available to queries
- Azure FPGA-accelerated networking enhancements to move data at rates of up to 1GB/sec per node



Azure Synapse Data Warehouse securely exposes the data to Power BI

- Instant data movement leverages multi-core parallelism in underlying SQL Servers to move data efficiently between compute nodes
- Query Optimization ongoing investments in distributed query optimization

SYNAPSE JUMPSTART

Synapse Jumpstart Objectives:

Synapse Jumpstart PoC platform based on state-of-the-art cloud services to illustrate the overall vision.

1

2

Establish an end-to-end flow including **ingestion**, **processing** to **normalize** and validate data, and visualization. 3

Securely store newly modelled data within Synapse Data Warehouse and Show advanced visualization capabilities available out of the box on Power BI.

SYNAPSE JUMPSTART

Proposed Architecture

The proposed architecture for this PoC is based on the Microsoft Azure platform. Our aim is to set up and manage a lightweight and elastic platform that can ingest up to 3 data sources, persist it in raw format, process and curate the ingested data, surface the data, and create a data visualization driven by the surfaced data.

Milestone	Delivery Date
ANALYSE AND ADVISE Accelerated Technical Advisory, assessment of environment, infrastructure and data modernization and analytics readiness, establish areas of focus within Synapse - solidify data foundation, security, analytics and data governance.	Weeks 1-2
DEPLOY AND PRESENT ROAD MAP FOR PHASE 2 Architecture and design phase one, proof of Value/MVP where Synapse services based on established priorities are created and delivered, one power BI visual/dashboard, optional purview setup.	Weeks 3-4
Estimated Cost	\$50,000

Lixar will provision all of the required services to demonstrate the functionality of a working data pipeline.

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