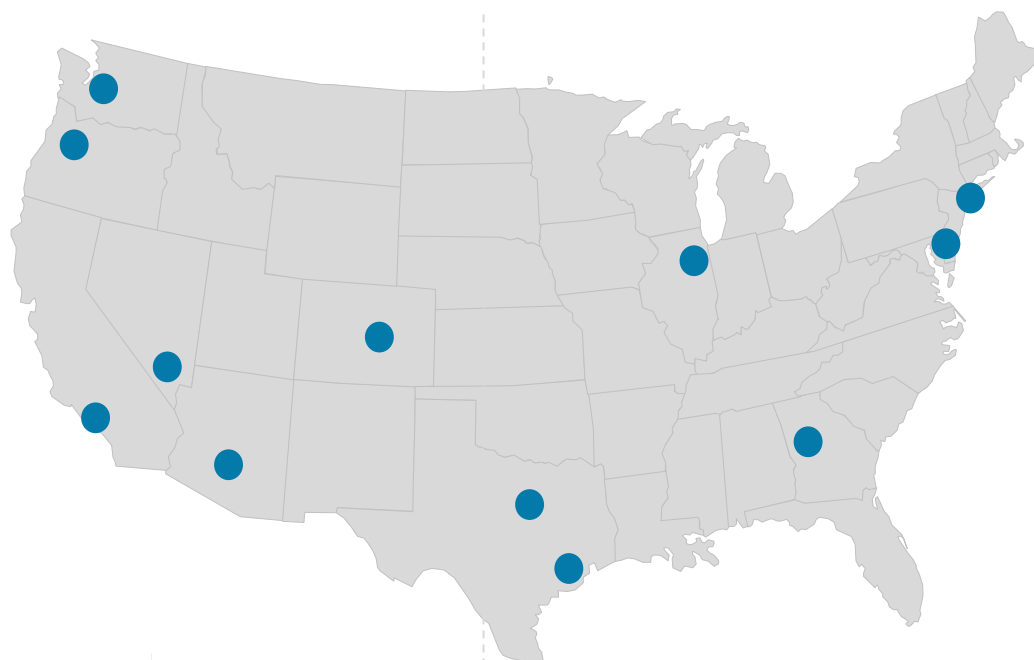# Data & AI Introduction

ABOUT NEUDESIC

Gold Cloud Platform
Gold Cloud Productivity
Gold Data Analytics
Gold DevOps
Gold Application Development
Gold Application Integration
Gold Enterprise Mobility
Management
Gold Collaboration & Content

OUR PROFILE

- 19+ year MSFT Gold Partner
- Rated #1 MSFT Partner in 2 key metrics
- Top 10 MSFT Partner of 6,000
- 16x MSFT Partner of the Year
- 1500+ consultants
- 1000+ clients
- 4000+ engagements
- Nearshore Solution Centers, Ohio/Arizona
- Offshore, Neudesic India- 3 offices.

OUR STRATEGIC AND TECHNICAL OFFERINGS

- Cloud Infrastructure, Migration and Strategy
- Artificial Intelligence
- Data and Analytics
- Machine Learning/Predictive Analytics
- Full Stack Development
- DevOps and Continuous Delivery
- Digital Workplace Solutions
- CRM-MS Dynamics/PowerApps
- Business Advisory Services
- Managed Solutions

partners   databricks   +tableau   wanDISCO   denodo   Profisee   collibra

Our Mountain Clients Trust Us to Innovate

FULL SOLUTION PARTNER

Cloud Infrastructure Services
- Cloud Automation & Optimization
- Cloud Governance
- Cloud Lifecycle Management
- Migration & Strategy
- Cloud Solution Provider
- Disaster Recovery

Data & AI
- Data & Analytics Strategy
- Data Engineering & Enterprise Analytics
- AI + Machine Learning
- Data Visualization & Insights Delivery

App Innovation
- App Modernization
- CI/CD & DevOps
- Integration
- Mobile
- Portfolio Rationalization

Hyperautomation
- Adoption & Org Change Management
- Process Optimization & Automation
- Product Management
- Value Realization
- Digital Strategy

Modern Workplace
- Bots: RPA, Knowledge Mining, & Chatbots
- Automation & App Development
- Team Collaboration
- Enterprise Productivity
- Customer Intelligence & CRM Solutions
- Office 365 & MS Teams

Business Applications
- App Management & Monitoring
- Cloud Solutions Management
- Integration Solutions
- 24X7 L1/L2 Support

Business Transformation & Strategy
- Business Functional Strategy
- Transformation and Value Realization
- Organizational Adoption

NEUDESIC

WHAT'S IMPORTANT AND WHAT ARE YOUR GOALS?

- **Understanding Your Goals, Challenges and Opportunities**
- Identifying a Best Fit Solution – Right Tool for the Job
- Adopting a Flexible & Scalable Platform – Ready to Adapt
- Providing Multiple Points for Self Service – Delivering Data Faster
- Accelerating Development – From Months to Weeks or Days
- Minimizing Support with Proven Strategies and Solutions
- Delivering at the Speed of Business
- Partnering with Customers to Achieve Continued Success

NEUDESIC
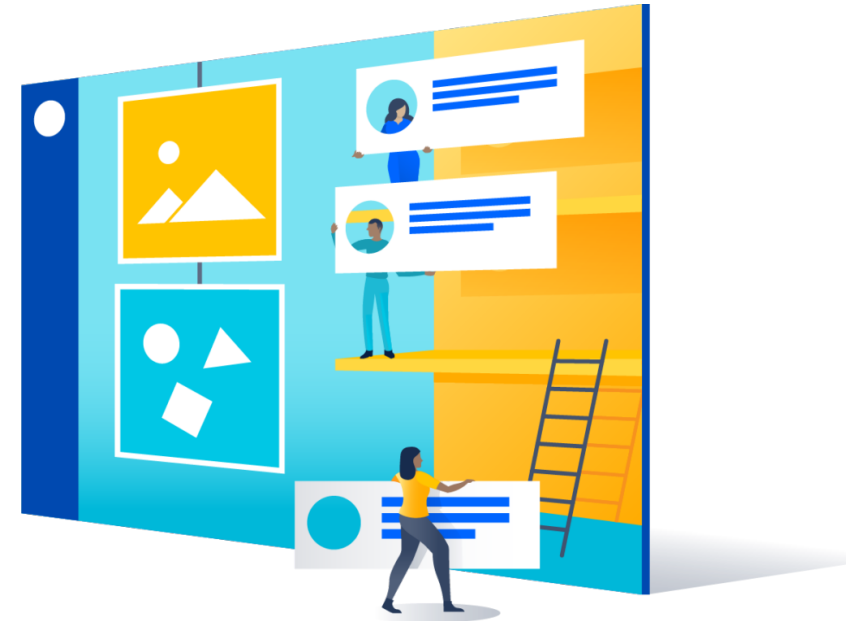
SOLUTION ATTRIBUTES

THESE ATTRIBUTES ARE DESIRED CHARACTERISTICS OF SYSTEMS THAT INFLUENCE ARCHITECTURE, TECHNOLOGY AND INFRASTRUCTURE DECISIONS.

Performance

The ability of the system handle various workload sizes.

Scalability

The ability to handle increasing demand.

Availability

The ability of a system to be up and functioning, measured in time.

Reliability

The ability of the system to function in a consistent manner under varying situations.

Maintainability

The ability of the system to undergo changes with a degree of ease.

Manageability

The ability of the system to be managed from different perspectives at runtime.
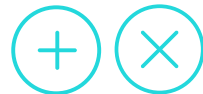
Extensibility

The ability to add and remove features and functionality to a system.

Testability

The ability to test and verify the system quickly and confidently.

Supportability

The ability to provide assistance to users.

Security

The ability to protect access to processes and data.

NEUDESIC

NEUDESIC *ONE* DATA & AI ACCELERATOR 3.0

Microsoft Azure

Delivering Accelerated Self-Service for Everyone

Starting the Foundation with Microsoft Azure

Neudesic *ONE* Data & AI Accelerator 3.0
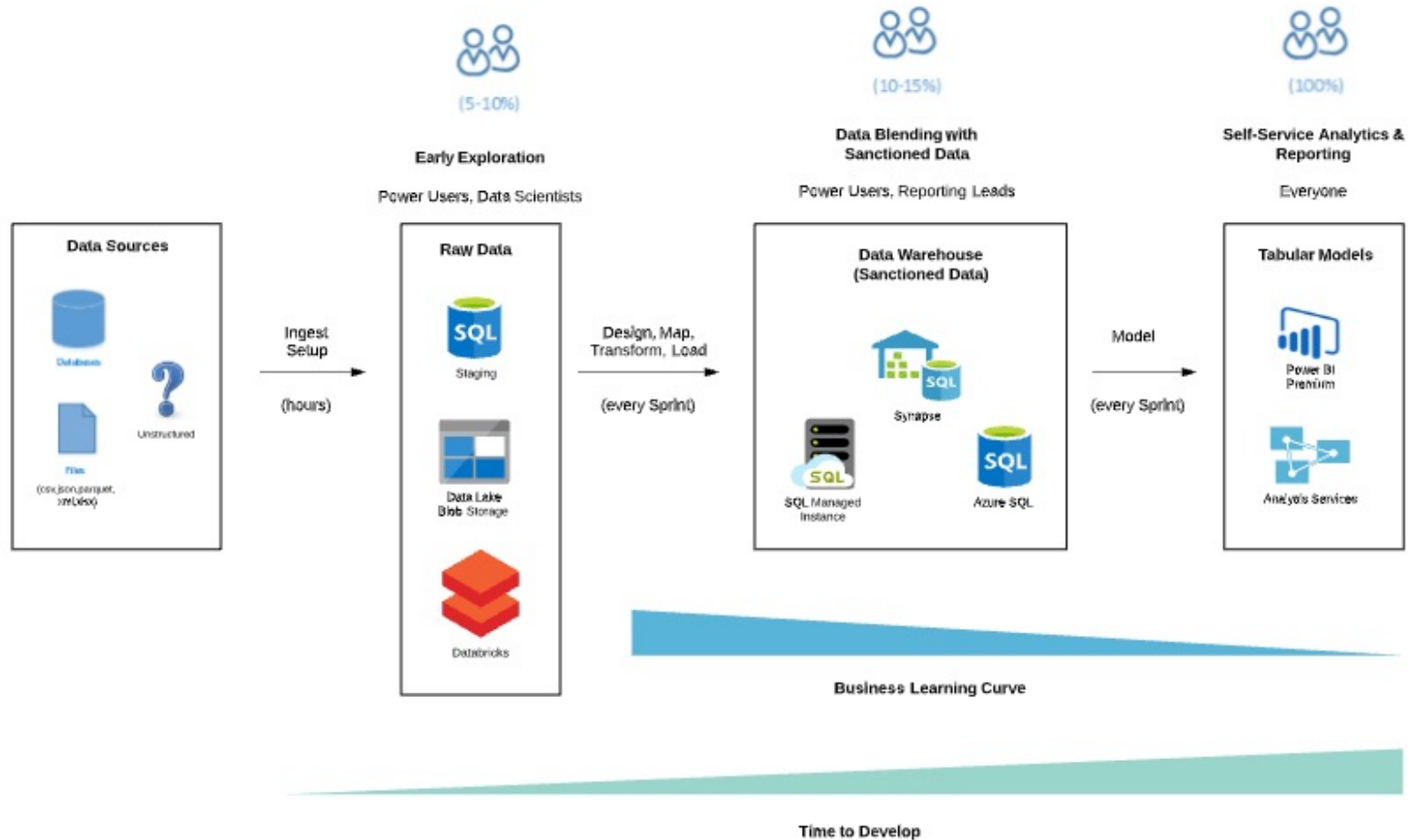
Azure Services Foundation

GETTING STARTED - OPTIONS

- Microsoft DPi30 – Data Platform in 30 Days
  - Funding Provided by Microsoft
  - Identify Business Use Cases
  - Determine Best Fit Architecture on Microsoft Azure
  - Deploy Neudesic's *One* Data Accelerator to Your Environment
  - Deliver Data to a Landing Zone for Selected Use Cases
  - Estimate Azure Spend with Growth Projections
  - Data & Analytics Roadmap (1 Year)
  - Executive Presentation

- Neudesic Demo (1-2 Hours)
  - Neudesic's *One* Data Accelerator Overview
  - Discuss Working Examples of Proposed / Similar Architectures
  - Explore Customization and Extensions for your Project
  - Fast Track to Project Execution & Delivery

LEVERAGING DPi30

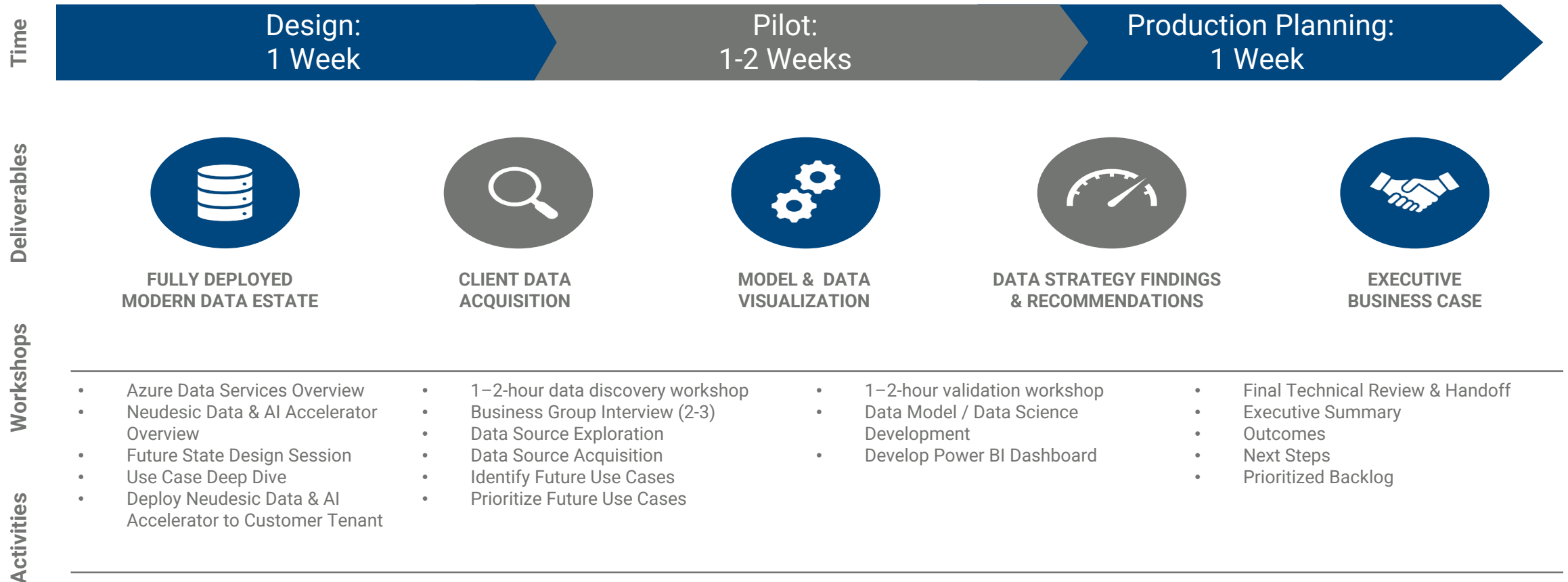**ENGAGEMENT DURATION:** 30 Days (or Less)

FUNDING: MSFT funding available ($20K)

OVERVIEW: This engagement delivers a fully deployed modern data estate in the Azure Cloud, which includes:

- Data Platform Design
- Modern Data Platform Deployment
- Client Data Acquisition
- Data Models and Visualizations
- Identified Use Cases
- Roadmap of Future State
- Executive Summary

DPi30 KEY DELIVERABLES & TIMELINE

Time

Design: 1 Week	Pilot: 1-2 Weeks	Production Planning: 1 Week

Deliverables

FULLY DEPLOYED MODERN DATA ESTATE	CLIENT DATA ACQUISITION	MODEL & DATA VISUALIZATION	DATA STRATEGY FINDINGS & RECOMMENDATIONS	EXECUTIVE BUSINESS CASE

Workshops

Activities

• Azure Data Services Overview	• 1–2-hour data discovery workshop	• 1–2-hour validation workshop	• Final Technical Review & Handoff
• Neudesic Data & AI Accelerator Overview	• Business Group Interview (2-3)	• Data Model / Data Science Development	• Executive Summary
• Future State Design Session	• Data Source Exploration	• Develop Power BI Dashboard	• Outcomes
• Use Case Deep Dive	• Data Source Acquisition		• Next Steps
• Deploy Neudesic Data & AI Accelerator to Customer Tenant	• Identify Future Use Cases		• Prioritized Backlog
	• Prioritize Future Use Cases		

THE NEUDESIC DIFFERENCE

ACCELERATING TIME TO VALUE

TYPICAL TIMELINE

| Design: 1-3 Months | Proof of Concept: 1-3 Months | Pilot: 2-4 Months | Production Plan: 1-3 Months | Production: 3-6 Months |
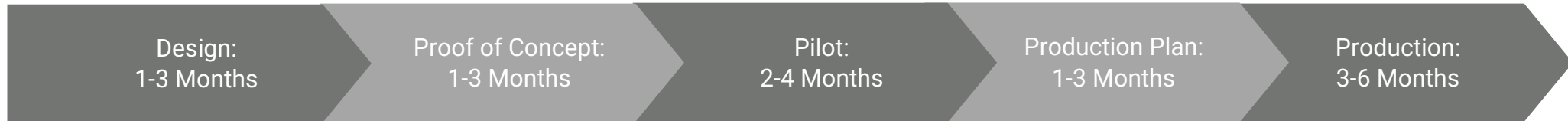
- No baseline for tech platforms
- Evaluation of technologies takes time

- Security concerns
- Lack of relevant skillsets

NEUDESIC'S DPi30 AZURE DATA & AI PLATFORM ACCELERATOR

| Design: 1 Week | Pilot: 1-2 Weeks | Production Planning: 1 Week |
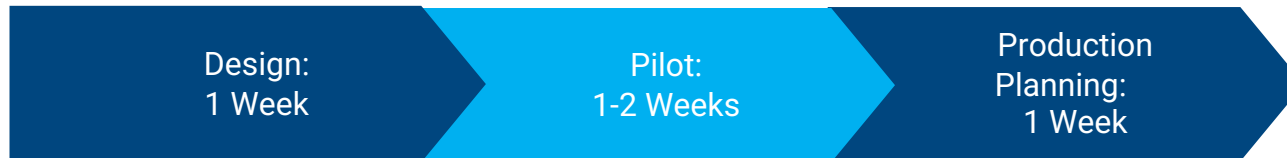
- High automated deployment to your environment
- 3,000 engineering hours, >70% repeatable code
- Minimal configuration required to ingest data

- Enterprise-grade (logging, monitoring, auditing, reporting capabilities, etc.)
- Pre-configured data-driven engineering pipelines that are highly scalable

THANK YOU

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TECHNICAL TOPICS

CUSTOMER SUCCESS

_____

Neudesic + E-470

Smarter toll road
management taps into
**automation, cloud systems,
and predictive analytics**

DOWNLOAD THE FULL CASE STUDY

E470 SM

TECHNOLOGIES IN FOCUS
- Azure Data Factory
- Azure Data Lake
- Azure Data Warehouse
- Azure Analysis Services
- Azure Machine Learning
- Azure Automation

The Challenge

- Increasing data volumes including multiple roadway partnerships
- Absence of a single view of data enabled conflicted interpretations of toll road performance
- Reporting capabilities needed to capitalize on timely data with predictive capabilities
- A need to innovate with Advanced Analytics with a technology platform that would scale

The Solution

- Deep technology partnership with Neudesic's understanding of E-470s development needs
- Capitalized on Neudesic's proven success with Azure's PaaS and SaaS capabilities
- New cloud platform considers performance, flexibility and supportability
- Solution delivered was a 'best fit' for E-470's business and technical teams

The Benefit

- Smart combination of Microsoft technologies delivers a best fit architecture on Azure
- Single source of true of information for analytics and reporting
- Self-service reporting capabilities allow consumers to analyze the business
- Predictive analytics allowed E-470 to make decisions regarding OCR technology, understand future process issues and staffing requirements

The Challenge

- Current reporting platform was hindering self-service capabilities across the company
- Solution grew organically for 3 years under a Traditional BI platform with support challenges
- Critical need for business data to manage the company in a low margin business
- Integration challenges across various applications
- Current Partner lacked the expertise to deliver a modern platform in the Cloud

The Solution

- Delivering a modern analytics platform leveraging Azure PaaS and SaaS capabilities
- Leveraging Neudesic's Azure Framework to accelerate the development process and provide a highly scalable, supportable platform moving forward
- Empowering the business with new self-service capabilities while introducing machine learning and other AI capabilities to get ahead of the curve in their industry

The Benefit

- A new partnership focused on business priorities and delivering at the speed of the business
- A modern platform leveraging Azure services and Neudesic IP to deliver a world class solution
- An energized team of business professionals who understand the importance of self-service and advanced analytics capabilities and its benefits

The Challenge

- Data & Analytics Support – Competing Priorities & Significant Turnover
- Business Groups have Led Self-Service, Developing Point Solutions
- Need for Stronger Partnership and Alignment – Business & IT
- Enhance Self Service Capabilities through Enterprise Solutions
- Existing Azure Environment has grown organically, no commitment to best practices and standards

The Strategy

- Build Foundation First – Focusing on People, Process and Collaboration
- Preparing for Effective Delivery in Today's Fast-Moving Business Environment
- Leverage Neudesic Azure Framework to Accelerate Development with a Proven Approach
- Develop and Implement New Architecture on Azure from the Ground Up Over Time
- Delivery Model Execution – Moving at the Speed of Business