snp technologies inc.

Migrate. Innovate. Enable

Unlock the full power of the Cloud

SNP's Azure Data, AI & ML Services

About SNP

SNP Technologies is a cloud-only service provider, building secure and reliable solutions to transform businesses of the future.

Our Azure Cloud solutions and consulting services help customers migrate to the cloud and create secure new solutions that deliver scalability, innovation and value.

Microsoft Gold Certified Partner Specialized In:

Data & AI

- SQL Server Migration
- OSS DB on Azure
- Cosmos DB Migration
- Machine Learning
- AI & Business Intelligence

- Modern Data Warehouse
- Self-service BI
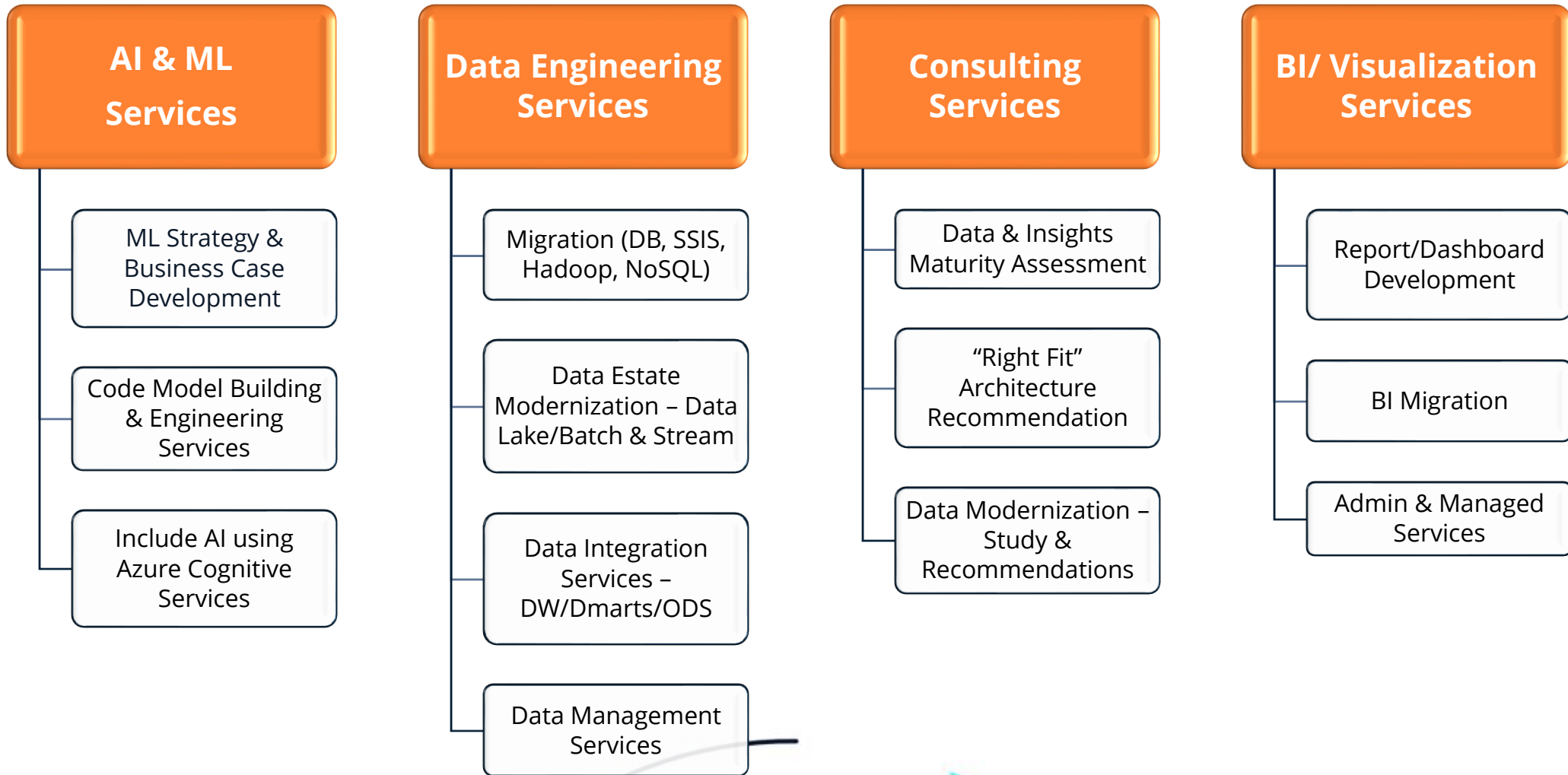- Azure Databricks
- Data Engineering

Apps & Infrastructure

- Windows & Linux Server Migration
- Hybrid Cloud
- Business Continuity & DR
- Azure Adoption Framework
- Azure Governance Services
- Windows Virtual Desktops

- Network Security
- Azure Kubernetes Services
- Azure Cost Optimization Services
- Modernize OSS & .NET Apps
- Citrix VDI on Azure
- SAP on Azure
- DevOps on Azure

Cloud Managed Services

- CSP Hosting Services
- Support Desk Operations
- Managed Azure infrastructure Operations
- Managed DR & Backup Operations

- Managed Data Operations
- Managed DevOps Services
- Managed Security Operations
- Premium Managed Services

Microsoft Gold Partner

Application Development
Cloud Platform
Cloud Productivity
Collaboration & Content
Data Analytics
Data Platform
Datacenter
DevOps

Microsoft Partner

2019 US PARTNER AWARD WINNER

Intelligent Cloud – OSS on Microsoft Azure Award

Microsoft Partner

2019 PARTNER OF THE YEAR FINALIST

Open Source Applications & Infrastructure on Azure Award

Microsoft Partner

2018 PARTNER OF THE YEAR FINALIST

Open Source Applications & Infrastructure on Azure Award

Microsoft Partner

2018 US SI PARTNER OF THE YEAR WINNER

Solution Innovation on Microsoft Azure Award

Azure Data & AI Services

AI & ML Services

- ML Strategy & Business Case Development
- Code Model Building & Engineering Services
- Include AI using Azure Cognitive Services

Data Engineering Services

- Migration (DB, SSIS, Hadoop, NoSQL)
- Data Estate Modernization – Data Lake/Batch & Stream
- Data Integration Services – DW/Dmarts/ODS
- Data Management Services

Consulting Services

- Data & Insights Maturity Assessment
- "Right Fit" Architecture Recommendation
- Data Modernization – Study & Recommendations

BI/ Visualization Services

- Report/Dashboard Development
- BI Migration
- Admin & Managed Services

Azure Databricks Implementation

SNP Technologies and Microsoft bring the power and ease of using Azure DataBricks Platform-as-a-Service (PaaS) to modernize your data warehouse with a robust Apache SparkTM analytics platform in the cloud for high performance and global scalability.

SNP Offers:

❖ Simplified data integration & ETL.

❖ Leverage machine learning for interactive & advanced analytics.

❖ Real time data processing.

❖ Seamlessly collaborate your data engineers, data scientists or business analysts on shared projects using interactive workspace and notebook experience.

❖ Build with your choice of language, including Python, Scala, R and SQL.

❖ Get easy version control of notebooks with GitHub and Azure DevOps.

❖ Leverage the Azure Active Directory (AAD) security framework to seamlessly integrate data from Azure SQL DB, Kafka on HDInsight, Azure SQL Data Warehouse, Cosmos DB, Azure Data Lake, Azure Blob Storage and Azure Event Hub.

❖ Leveraging Azure Databricks we help you integrate data from different sources like Couchbase, Elasticsearch, CSV files, JSON files, Redis and more.

SNP's Azure Databricks Implementation Process

SNP's 2 Week Engagement Process

Strategy Briefing/Envisioning Workshop

SNP's service team including a Cloud Platform Architect, Data Scientist, Azure Data Platform Architect, and subject matter experts work with the customer to ideate high-priority transformative use cases that address specific business challenges.

Business Discovery

SNP will conduct a business discovery session to explore business challenges and analytics capabilities that can help you meet specific business challenges and opportunities to drive innovation.

Develop Proof of Value

SNP works with the customer to select one high-priority use case focused on their desired business outcomes to develop a proof of value demonstrated through a prototype, and/or pre-prediction pilot.
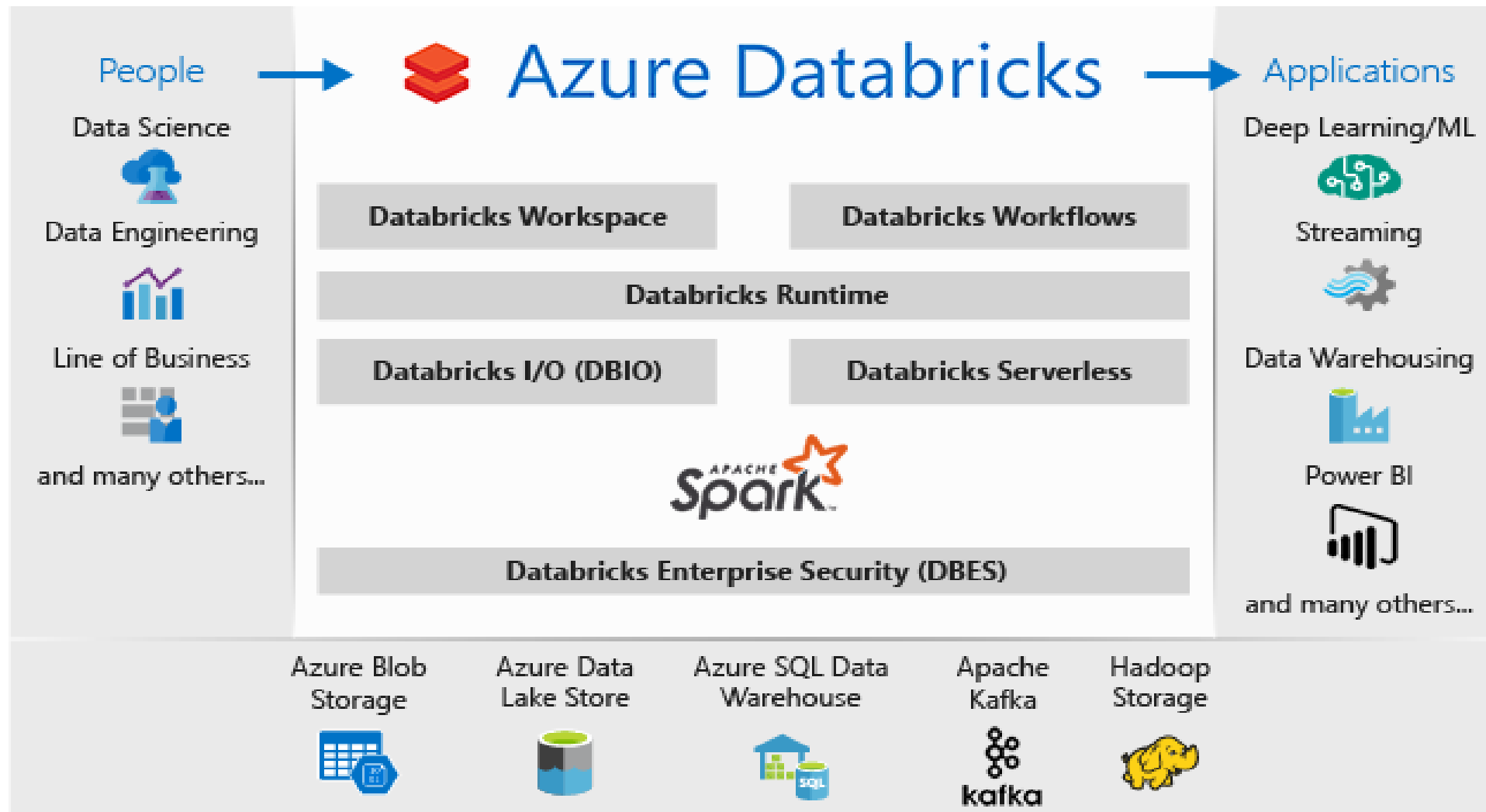
Roadmap for Continued Innovation

SNP presents proof of value insights with a roadmap for a continued innovation and transformation.
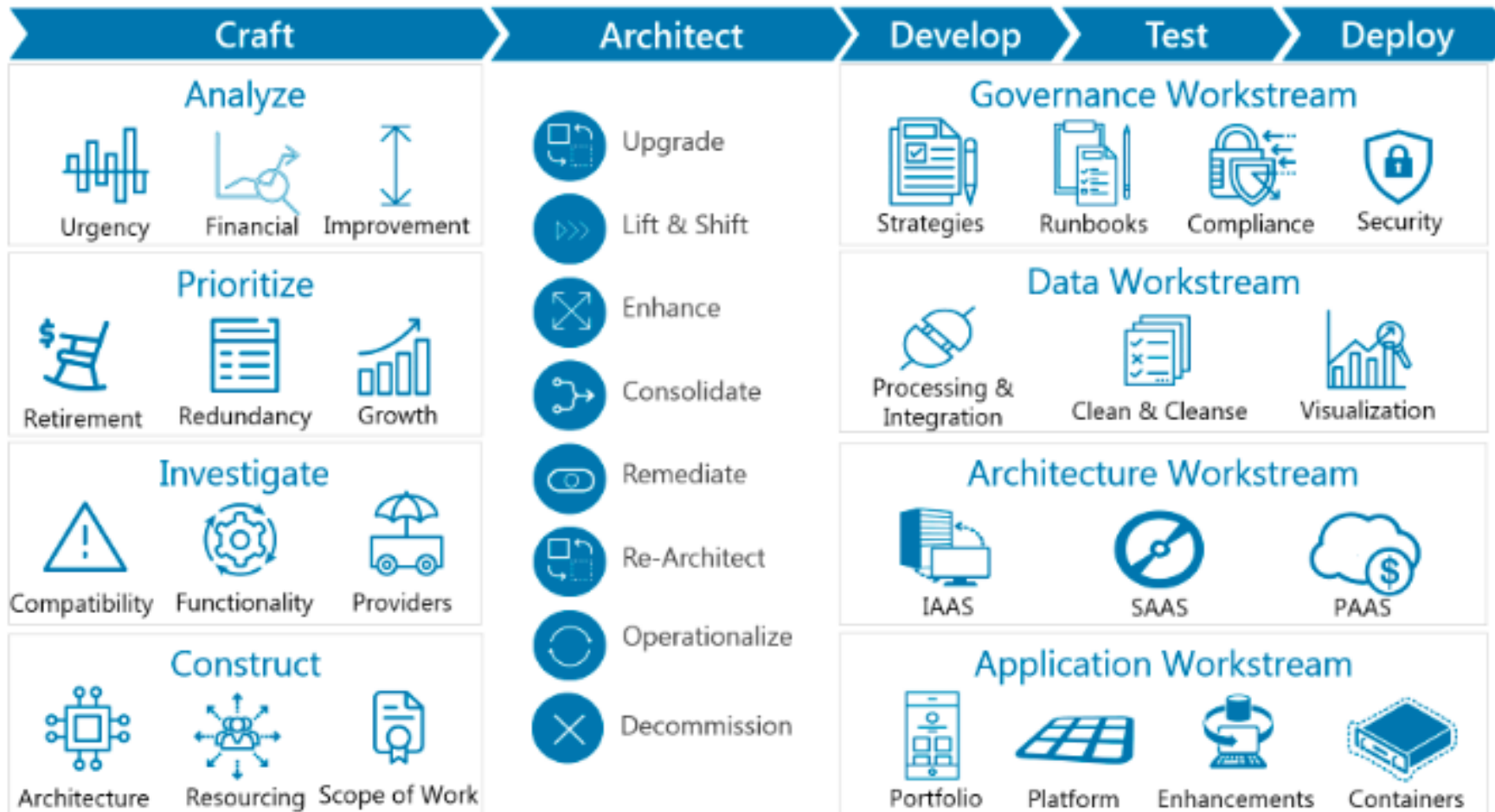
Data Migrations To Azure SQL Database

Digital Ready for Analytics process can help you build capacity for sustained innovation and create a data-driven culture to make improved, fast decisions by utilizing the power of data and artificial intelligence.

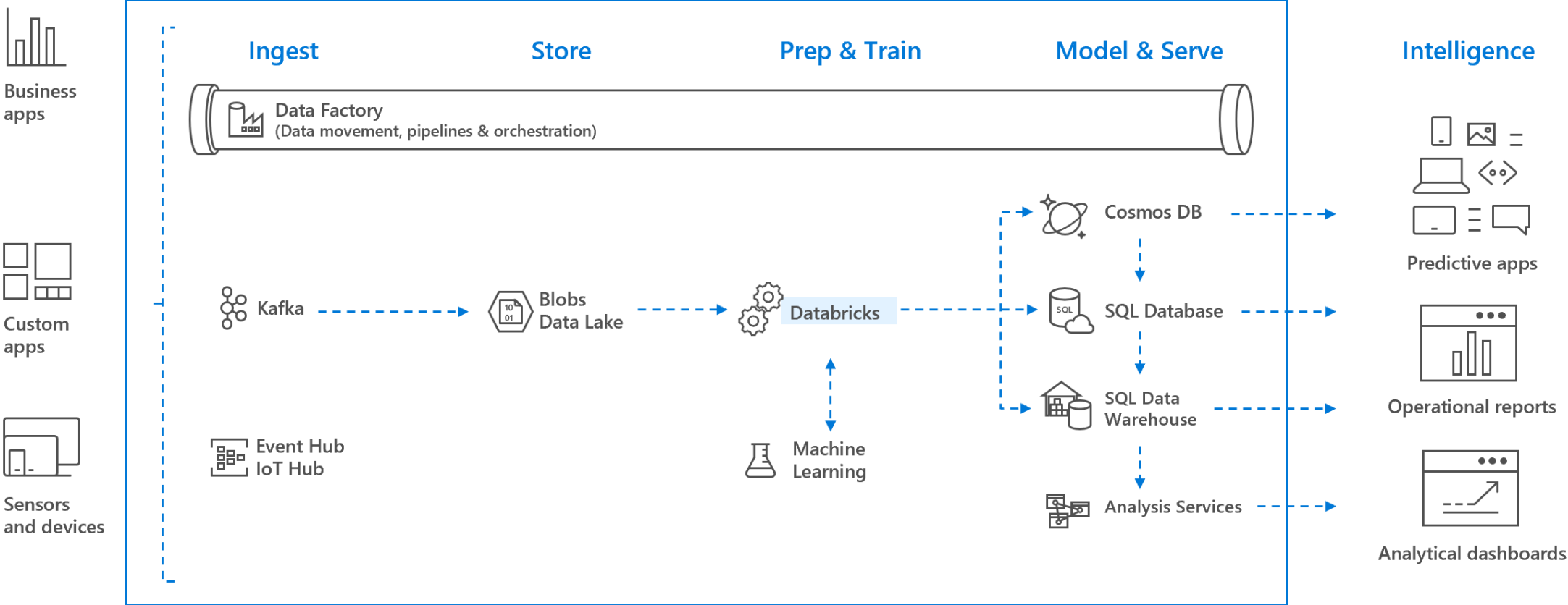# Azure Databricks Potential Architectural Diagram

SNP's Data Estate Modernization Services

In order to drive internal understanding and the value story behind a modern data estate in the cloud, we offer cloud data platform development services built around proving out identified business scenarios using architectures.

Craft	Architect	Develop	Test	Deploy

Craft

Analyze
- Urgency
- Financial
- Improvement

Prioritize
- Retirement
- Redundancy
- Growth

Investigate
- Compatibility
- Functionality
- Providers

Construct
- Architecture
- Resourcing
- Scope of Work

Architect
- Upgrade
- Lift & Shift
- Enhance
- Consolidate
- Remediate
- Re-Architect
- Operationalize
- Decommission

Governance Workstream
- Strategies
- Runbooks
- Compliance
- Security

Data Workstream
- Processing & Integration
- Clean & Cleanse
- Visualization

Architecture Workstream
- IAAS
- SAAS
- PAAS

Application Workstream
- Portfolio
- Platform
- Enhancements
- Containers

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Azure Database Migration Services for SQL Databases

SNP Technologies has helped organizations reduce the complexity of cloud migration by using a single comprehensive service instead of multiple tools. Our Azure Database Migration Service is designed as a seamless, end-to-end solution for moving on-premises SQL Server databases to the cloud

SNP's 4 Week Engagement Process

Our 4-week assessment program offers expert engineering resources to facilitate data migrations from on-premises MS SQL including SSIS, SSAS, SSRS, and SQL Data Warehouse to Azure (IaaS, PaaS – Azure SQL, Elastic Pool, Managed Instance, Azure Synapse, and Azure Analysis Services. We look forward to address the migration and product feature specific blockers of our clients through this program.

Week 1 & Week 2	Week 3 & Week 4
❖ Discovery and assessment of data assets. ❖ Definition of target architecture. ❖ Identification of risks and issues. ❖ Identification of any work around changes. ❖ Roadmap for migration. ❖ Assessment report or PoC build.	❖ Architecture designed by SNP from PG assigned. ❖ Weekly sync with PG through project life cycle. ❖ Microsoft executive level visibility as needed. ❖ Direct escalation channel with project group as needed.

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Migrate On-Premise Database To Azure PaaS Platform

SNP's 4 Week Engagement Process

Educate

➢ Conduct awareness training sessions to educate about Azure Database Instances, Data Warehouse and options available to migrate.

➢ If needed, conduct workshops for the clients and remove barriers for migration planning.
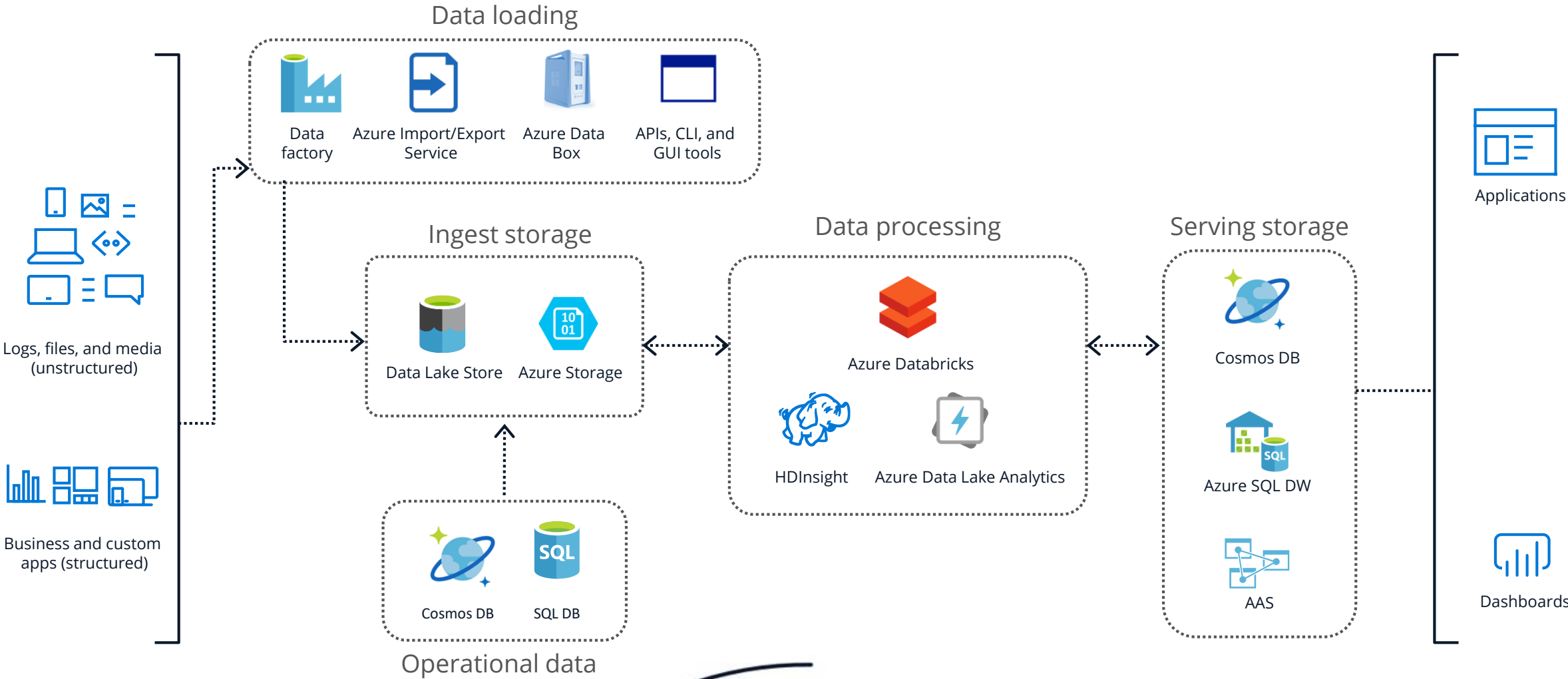
Remediate

➢ Assist the clients in planning by conducting architecture design sessions, building migration blueprints etc.

➢ Migration architects will review remediation items, provide guidance and help prepare you for migration.

Migrate

➢ Migration architects from SNP team will assist in the migration and onboarding process.

➢ Conduct technical 'How To' workshops for client teams.

➢ Our migration architects will travel to customer locations as needed to support.

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Data Engineering Patterns in Azure

Data loading

Data factory

Azure Import/Export Service

Azure Data Box

APIs, CLI, and GUI tools

Ingest storage

Data Lake Store

Azure Storage

Logs, files, and media (unstructured)

Business and custom apps (structured)

Operational data

Cosmos DB

SQL DB

Data processing

Azure Databricks

HDInsight

Azure Data Lake Analytics

Serving storage

Cosmos DB

Azure SQL DW

AAS

Applications

Dashboards

Artificial Intelligence with Microsoft Azure

SNP and Microsoft bring you the power of Artificial Intelligence to enable your digital transformation and automation. We help your organization to modernize existing applications with infused AI. SNP has successfully implemented AI to transform business processes across various industry verticals like manufacturing, retail and financial services.

Integrate AI APIs

Leverage pre-built AI APIs in solutions

Custom Modelling

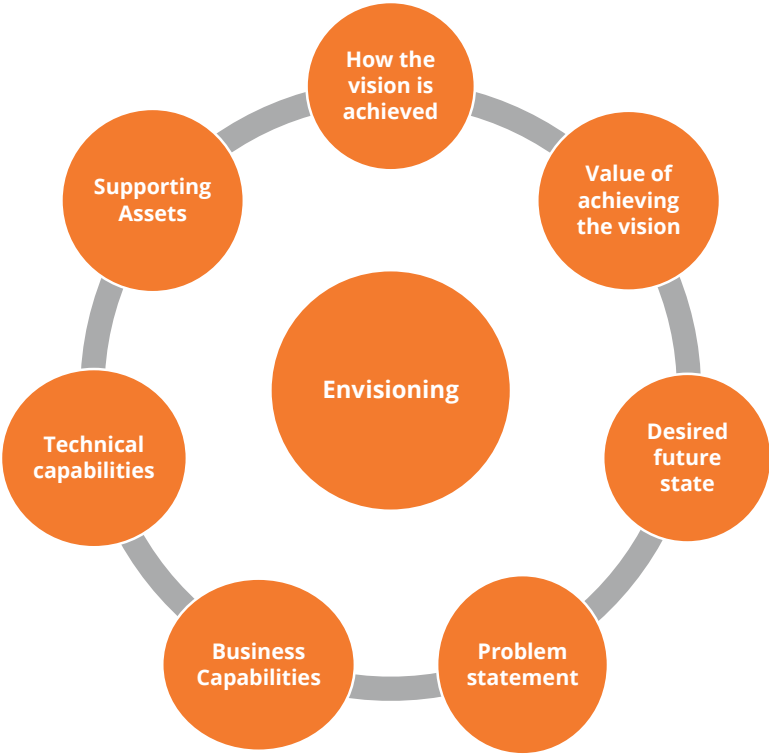Train & deploy models using customer data

Custom Algorithms

Design and implement custom algorithms. Deep algorithmic understanding.

Vertical Specialization

Provide packaged, industry specific AI solutions.

Artificial Intelligence Practice Model

How the vision is achieved

Value of achieving the vision

Supporting Assets

Envisioning

Technical capabilities

Desired future state

Business Capabilities

Problem statement

Envisioning sessions allow the customer to understand the opportunities with AI in their business requirements

Why

Build Team
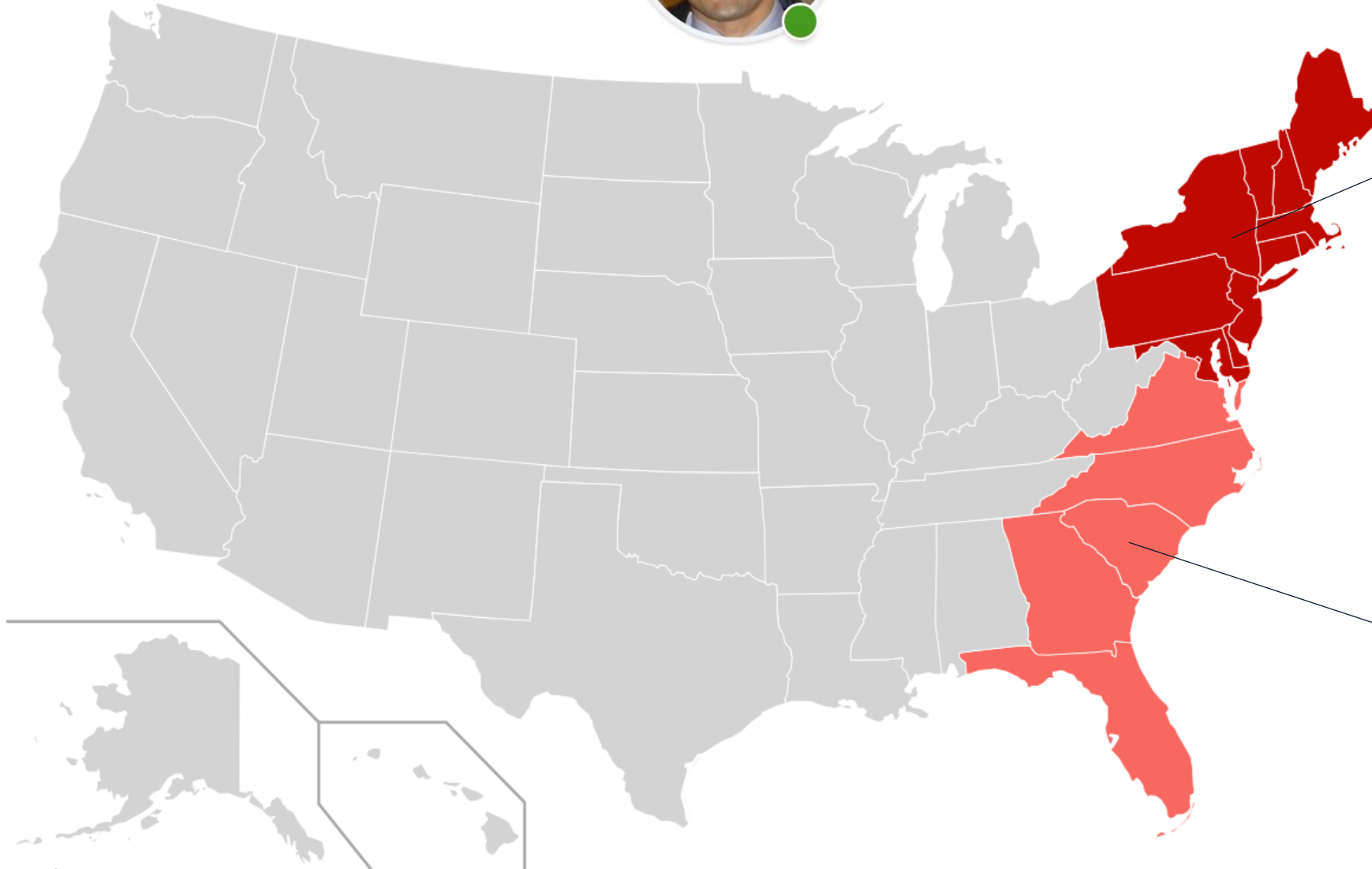
Execution

Define Scope

Proposal

Next Steps

Proof of Concepts is the 4-week engagement process to help the customer get comfortable with both the AI capabilities and the implementing partner. It allows the partner to understand the real situation with respect to availability of quality data and possibility of solving the problems.

Contact Us:

SACHIN PARIKH
VP of Business Development
sachin@snp.com
203-287-9114 X 112

Phil Balogh

Sales Director- North East

Email: phil@snp.com

M: 203-228-0310

Michael Fiorito

Sales Director- South East

&   Mid Atlantic

Email: michael.fiorito@snp.com

M: 917-753-0346

Azure

www.snp.com

2319 Whitney Ave. | Suite 3C | Hamden, CT 06518