Accion Labs

Data and Analytics Capabilities

- Data & Analytics Capabilities Overview
- Focus items requested
    - Data Strategy
    - Data Governance
    - Realtime Analytics
    - GenAI Capabilities
    - Databricks Capabilities
- End to End Solution Case Studies

Accion Labs – Data and Analytics Solutions

Service Segments	Focus Areas							Corner Stones
Data Science and AI Services	Strategy and Roadmap (Assess – Guidance – Maturity)		AI & ML Model (Develop – Evaluate – Deploy)		Productization and Management (Accelerate – Operationalize – Democratize)			Tools & Accelerators
	Business Advisory	Data Discovery and Data Mining	ML Modeling, Training, EDA	MLOps and Scaling AI	AI & ML Platforms	Data Sharing	Data Storytelling	Industry Domain Expertise
	Technology Stack	KPIs and Metrics	NLP, NLG, NLQ,	Responsible AI, GenAI, Trusted AI	CoEs, Workshops	GenAI, GenBI and Self-serve	Optimal Dashboards	Experience Engagement
Data and Analytics Modernization Services	Implementation and Integration (Design-Build-Integrate)		Migration and Modernization (Run-Optimize-Scale)		Data Management & Governance (Policy – Regulation – Execution)			Governance Ethics
	Data Engineering	Pipeline Automation BI & Reporting	Hyperscalers, Data Clouds & Platforms	DataOps and FinOps	Data Lineage, Cataloging, Data Marketplace	Data Trust, Security, Compliance & Access		Co-innovation Collaboration
	Data Fabric and Mesh	Data Hub, Streaming Data	EDW, Lake House	Edge & Distributed Computing	Data Quality & Observability	MDM, Metadata and Data Ecosystems		Change Management

End to End – Business Transformation Services

Process Digitization & Optimization

- Biz Process Implementation
- Business process Customization & Optimization
- Workflow based applications
- Integration Platforms | Enterprise Integrations
- Robotic Process Automation
- Gen-AI based Process Automation

Tech Landscape Rationalization

- Enterprise Architecture
- Application portfolio Rationalization
- Re-engineering & Modernization
- Product Engineering
- Design Engineering | UX / UI
- IoT Applications

Data Transformation

- Org-wide Data Strategy | Data Model
- Data Governance & Data Quality
- Data Modernization | Data Migration
- Data Engineering | MLOps, AI Ops, Data Ops
- Analytics – Bi. Reporting, Realtime | AI/ML
- GenAI Powered Analytics & Insights

Cloud Transformation

- Org Cloud Strategy & Roadmap
- Application and Infra Cloud Migration
- GenAI-powered Managed Services
- CloudOps | DevOps | DevSecOps
- Cloud Native Business Apps
- Cloud Platform & Infra Services

MS Dynamics

Salesforce

ServiceNow

LC / NC Platforms - Power Platform, Mulesoft, Boomi, Appian

RPA

.NET, JAVA, Python

Magento | **AEM**

Snowflake

Azure Synapse & Fabric

AWS Redshift

Databricks

Azure

AWS

GCP

Cloud Platform & Data Services

Gen AI Powered *(Potentially)*

Microsoft Azure Cloud Services | Azure Process Automation | Azure Data Services

AWS Cloud Services, Platform Services, Data Services

Accion’s Focus - Enterprise Data Management Spectrum

Enterprise Data Model	Master Data Model	Data Org across Core Biz Apps	Data Org across Non-Core Apps	Application data Model	Data Sync Rules
Data Governance Ownership & Access	Data Ownership Matrix, R&R	Core Governance Policies & Standards	Data Lineage | Data Glossary	Data Access Mgmt.	Data Security & Privacy
Data Quality	Data Validity, Accuracy, Completeness	Data Quality Values and Thresholds	DQ integration with Data Systems	Quality – Data at Rest	Quality – Data being Transferred between Systems
Data Exchange	Data Synchronization	Defining Data Exchange Mechanisms	Data Integrations	Data Quality During Data Exchange	Target Data Exchange landscape Implementation
Data & Analytics Modernization	D&A Platform Modernization	Legacy Data Migration	BI , Reporting, Dashboards	AI / ML	Security / Access Mgmt.

Partnerships and Alliances

servicenow
snowflake
Microsoft
Adobe Commerce Cloud
amazon web services™
databricks
salesforce
Google Cloud Platform
HORTONWORKS
mongoDB
calm.io
kony
CHEF
UiPath™
docker
MariaDB®

Data & Analytics - Technology Spectrum

Accion Partnerships

Microsoft Partner
Microsoft
Gold Cloud Platform
Gold Application Development
Silver DevOps

snowflake

amazon web services | Partner Network

We work actively for clients in 120+ open-source and commercial distributions, application platforms, and data stores including

Current Landscape of Data Management Challenges

Managing Complex Data Pipelines

Dealing with disparate systems, data formats, and integration challenges across the enterprise

Ensuring Data Quality

Maintaining consistent, accurate, and reliable data across the organization

Improving Developer Productivity

Streamlining the process of building and maintaining data solutions

Scalable Metadata Management

Creating comprehensive data cataloging and governance systems that scale with the organization

Balancing Performance and Cost

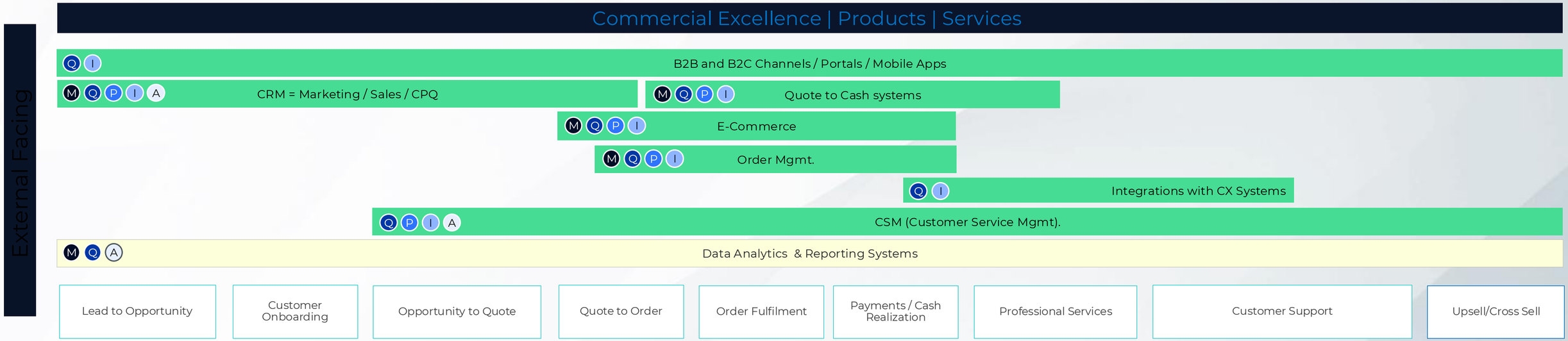
Optimizing data infrastructure to meet performance requirements while minimizing costs

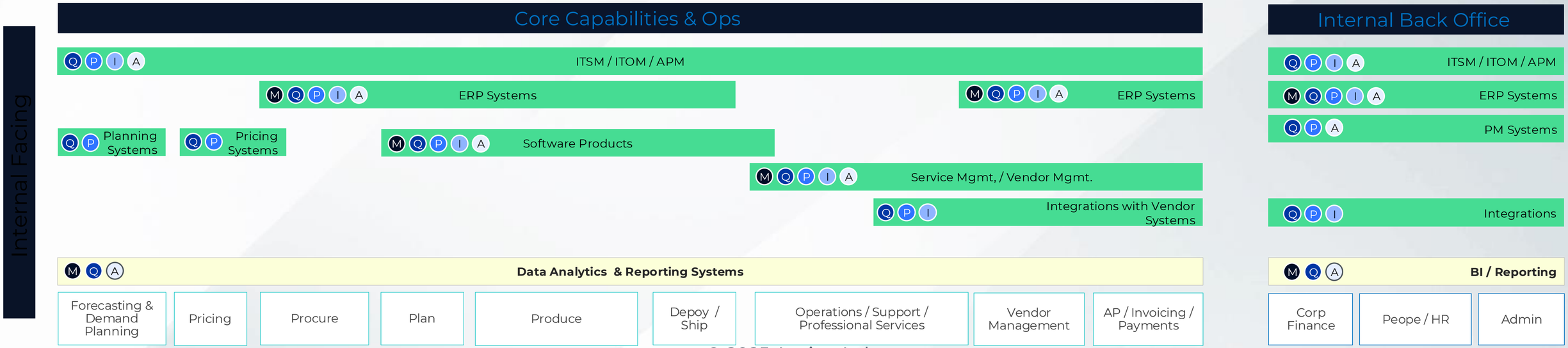
Data Transformation Strategy – 5 Pillars

Impacting **Business Operations**

	M	Q	P	I	A
	Data MODEL	Data QUALITY	Data (Business) PROCESSES	Data INTEGRATIONS	Data ANALYTICS
What does it Mean?	▸ Business entities Residing In Multiple Systems	▸ Quality of Data in These Systems	▸ Data dictates process flows	▸ Master Data is exchanged between Apps	▸ Data Models & Analytics are created from Business Data
Impact of Wrong Strategy?	× Impact up to 20-30% of Process efficiency / Revenue	× Manual Fixing of DQ × Incorrect Data leads to lost opportunities × Upswing in Ops cost	× Inefficient Process Implementation × Lower productivity	× Incorrect Integrations hit productivity × Increased Technical Debt	× Inaccurate data → wrong decisions × Higher TCO due to workarounds

Enterprise Landscape – Impact of 5 Data Pillars





Data – AI Feasibility Matrix

M Model	Yes	High	Low	High	High
Q Quality	Yes	High	Low	High	High
P Process	Yes	Moderate	Moderate	HIGH	Moderate
I Integrations	Yes	Low	Low	Low	Moderate
A Analytics	Yes	Moderate	Low	Moderate	Moderate

A Pragmatic Methodology to Apply AI

		Design		Implement		Operate & Run	
	ROI	Applicability		Applicability		Applicability	
Model (M)	High	▪ MDM Definition Consolidation ▪ MDM Mapping ▪ Enterprise Knowledge Graph Creation	●	▪ MDM Definition Consolidation ▪ MDM Mapping ▪ Dynamic Schema Extraction	●	▪ Auto SKU Recommendation ▪ Applying rules to New Products	●
Quality (Q)	High	▪ Quality Gap Analysis ▪ Quality Standardization ▪ Quality Validations and Thresholds ▪ Enterprise Knowledge Graph Creation	●	▪ Quality Gap Analysis ▪ Quality Standardization ▪ Quality Validations and Thresholds	●	▪ Ensuring Strict Adherence to Quality Standards	●
Process (P)	Moderate	▪ Enterprise Knowledge Graph Creation	●	▪ Process Intelligence	●	▪ Automated Process execution	●
Integrations (I)	Moderate	▪ Auto API detection ▪ API Mapping	●		●		✕
Analytics (A)	High	▪ Auto Schema Design ▪ Auto Column mapping	●	▪ Dynamic Schema Extraction ▪ Auto ETL Pipeline Creation ▪ Auto KPI Mapping / Transformations	●	▪ Dynamic Schema Extraction ▪ Dynamic Reports ▪ Conversation based dynamic KPI determination	●

AI Applicability ● High ● Moderate ● Low

The Role of AI in Modern Data Infrastructure

Automating complex data engineering processes

Data extraction, transformation, and loading, reducing manual effort and improving efficiency.

Enhancing data quality through intelligent monitoring and validation

Detect anomalies, monitor data health, and automatically validate data to ensure accuracy and reliability.

Accelerating development cycles with AI-assisted tools and approaches

Automating code generation, providing intelligent recommendations, and streamlining SDLC

Streamlining metadata management and data discovery

Automatically extracting, organizing, and surfacing relevant information to users.

By leveraging AI capabilities across the data lifecycle, organizations can unlock greater efficiency, data quality, and productivity in their data management practices, empowering them to make more informed decisions and drive business success.

Our Process for Success

1. Integrated program management with CxO-level oversight
2. Expert teams with proven innovation
3. Deliverables with acceptance tests and full specifications
4. Focus on outcomes with tools for client independence

How We Strive for Client Success

Experts “On the Ground”

Integrated Program Management

CxO-level Management Oversight and Coaching

Engagements ranging from “Expertise” to “Owned Outcome”

“Sponsor-Aligned, Stakeholder-Ready” Updates

Thank You

For more info please visit www.accionlabs.com