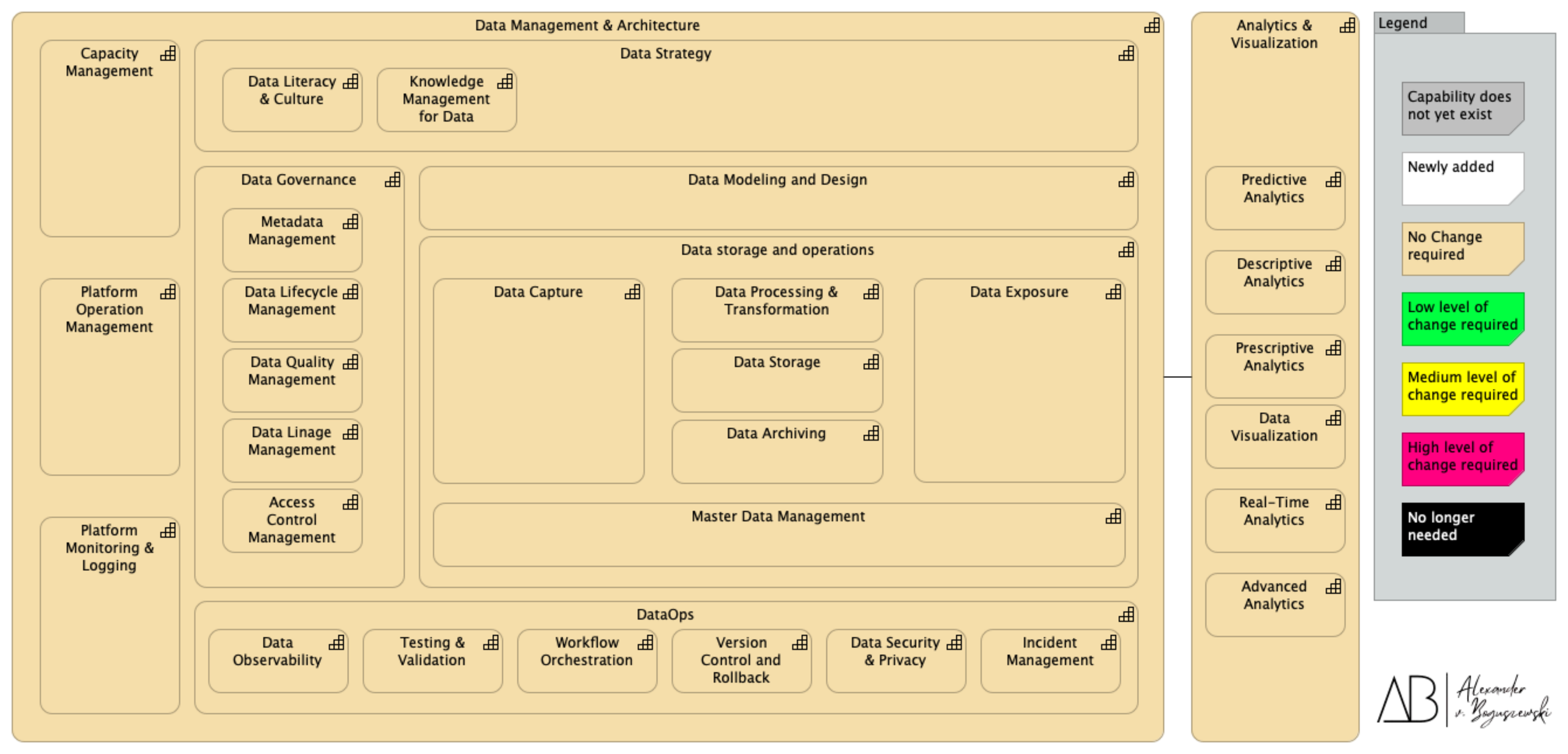
Data Management & Architecture
Capacity Management
Data Strategy
Data Literacy & Culture
Knowledge Management for Data
Data Governance
Metadata Management
Data Lifecycle Management
Data Quality Management
Data Linage Management
Access Control Management
Data Modeling and Design
Data storage and operations
Data Capture
Data Processing & Transformation
Data Storage
Data Archiving
Data Exposure
Master Data Management
Platform Operation Management
Platform Monitoring & Logging
DataOps
Data Observability
Testing & Validation
Workflow Orchestration
Version Control and Rollback
Data Security & Privacy
Incident Management
Analytics & Visualization
Predictive Analytics
Descriptive Analytics
Prescriptive Analytics
Data Visualization
Real-Time Analytics
Advanced Analytics
Legend
Capability does not yet exist
Newly added
No Change required
Low level of change required
Medium level of change required
High level of change required
No longer needed
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Data Management & Architecture

Data Strategy

Data Literacy & Culture
- Define KPIs
- Maintain Data Usage Backlog
- Identify & Develop Sponsorship

Knowledge Management for Data
- Train End Users in BI & Analytics & Tools
- Establish Data & Analytics Center of Excelence
- Communicate Strategy, Business & Technology Roadmaps

- Build the Data & Analytics Strategy
- Build the Roadmap
- Integration Architecture

Data Governance

Metadata Management
- Leverage Metadata Management and Classification
- Metadata Exploration
- Metadata Repository

Data Lifecycle Management
- Define Governance Organization & RACI
- Define & Implement Specific Data Protection

Data Quality Management
- Monitor & Control Data Quality
- Quality Profiling
- Define & Implement Business Rules

Data Linage Management
- Data Lineage

Access Control Management
- Define & manage Data Access
- Access Management

Data Modeling and Design
- Design Data Model & Semantic Layer

Data storage and operations

Data Capture
- Design & Build Necessary Interfaces
- Identify Relevant Data Sources
- Batch Exchange
- Define & Enforce Process to Onboard New Source Data
- Query Execution
- API & Data Interface Exchange
- Streaming Exchange
- Change Data Capture

Data Processing & Transformation
- Low-latency Processing
- Batch Processing
- Deletion
- Data Mapping
- Technical Preperation
- Masking
- Design & Develop Data Pipelines

Data Storage
- Design Infrastructure & Storage Spaces
- Encryption at Rest

Data Archiving
- Archiving

Data Exposure
- Data Wrangling
- Data Discovery
- Self-Service Data Preperation
- Information Servicing

Master Data Management

DataOps

Data Observability
- Audit Trail
- Data Monitoring & Profiling
- Business Usage Monitoring

Workflow Orchestration
- Schedule Data Pipelines
- Schedule Data Pipelines
- Job Scheduling

Testing & Validation
- Integration Testing

Version Control and Rollback
- Pipeline Version Mngt
- Data Versioning

Data Security & Privacy
- Audit Plattform Security & Compliance
- Detect & Notify a Data Breach
- Accessing secrets

Incident Management
- Detect & Manage Data Issues
- Detect & Manage Incidents

Capacity Management
- Define & Enforce Cost Optimization Principles
- Measure Data Volumes and Usage Frequencies
- Monitor & Control Costs
- Resources Management

Platform Operation Management
- Deployment
- Grant Access
- Environment Staging

Platform Monitoring & Logging
- Log Monitoring
- Performance Monitoring

Legend
- Capability does not yet exist
- Newly added
- No Change required
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- Medium level of change required
- High level of change required
- No longer needed

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Governance

Policy & Compliance Component
- Define & manage Data Access
- Detect & Notify a Data Breach
- Access Management
- Define & Implement Specific Data Protection
- Audit Plattform Security & Compliance
- Audit Trail

Data Catalog Component
- Measure Data Volumes and Usage Frequencies
- Data Lineage
- Metadata Repository
- Monitor & Control Data Quality
- Metadata Exploration
- Metadata Infering

Data Quality Component
- Detect & Manage Data Issues
- Quality Profiling

Data Marketplace
- Metadata Exploration

Data Capture

Data Sources
- Business Applications (Source)
- DBMS (Source)
- Filestore (Source)
- IoT (Source)

Data Ingestion Component
- Design & Build Necessary Interfaces
- Batch Exchange
- Query Execution
- API & Data Interface Exchange
- Streaming Exchange
- Change Data Capture

Data Storage & Processing

Master & Reference Data Component

Data Modeling & Semantic Component
- Design Data Model & Semantic Layer

Self-Service Data Preperation Component
- Data Wrangling
- Data Discovery
- Data Wrangling
- Self-Service Data Preperation

Data Storage Component
- Design Infrastructure & Storage Spaces
- Raw Data Storage
- Encryption at Rest
- Prepared Data Storage
- Data Versioning
- Information Storage
- Archiving

Data Abstraction
- Information Servicing
- Define & Implement Specific Data Protection

Data Processing Component
- Low-latency Processing
- Batch Processing
- Deletion
- Data Mapping
- Technical Preperation
- Masking
- Design & Develop Data Pipelines

Integration Design (Development & Deployment)
- Development Environment
- Integration Testing
- Build Mngt
- Pipeline Version Mngt

Event Stream Broker

Data Consumption

Line of Business Analytics
- Design & Build Ad Hoc Reports
- Data Visualization & Decision Support

Enterprise Analytics Component
- Design & Build Industrialized Stable

AI – RAG Component

Data Sharing Component
- Define & Implement Specific Data Protection

Data Consumer
- Visual Reporting / Dashboards
- LLM (Target)
- DBMS (Target)
- Business Application (Target)

Data Operations

Testing & Validation Component

Continuous Deplomyment Component
- Deployment
- Environment Staging

Automation & Scheduling Component
- Schedule Data Pipelines
- Job Scheduling
- Schedule Data Pipelines

Business Monitoring Component
- Detect & Manage Incidents
- Data Monitoring & Profiling
- Business Usage Monitoring
- Log Monitoring
- Performance Monitoring

Financial Monitoring Component
- Monitor & Control Costs

Identity and Access Mgmt. Component
- Access Management
- Accessing secrets

Data Infrastructure

Infrastructure Automation Component
- Resources Management

Monitoring & Alerting Component
- Detect & Manage Incidents

Log Aggregation Component

Backup & Recovery Component

Storage & Processing Nodes

Communication Networks

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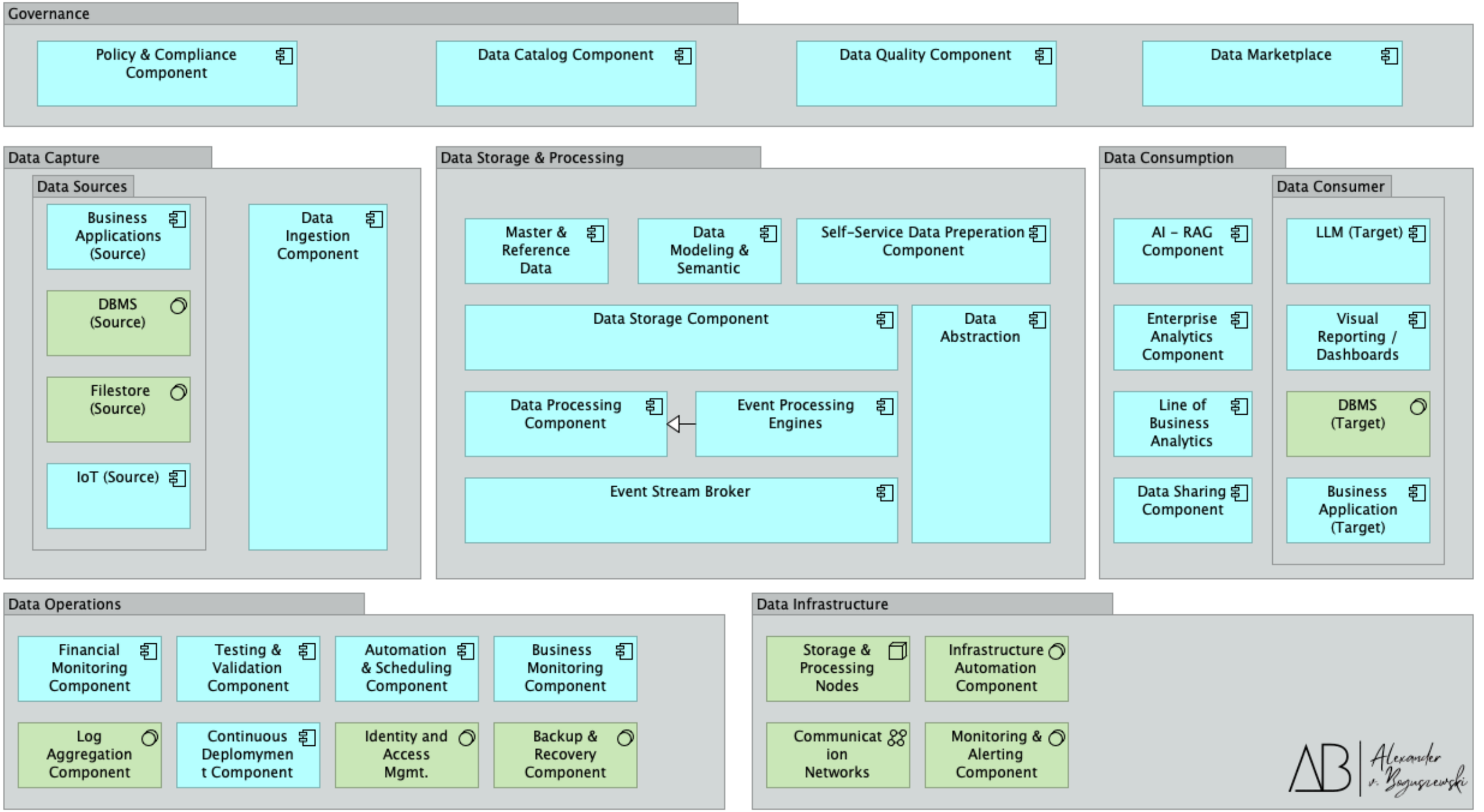
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