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Productive Edge 5 Week Rapid Modern Data Architecture Assessment

Outcomes: Data Architecture Solution BluePrint, Roadmap and
Timelines



Shift to A Modern Data Platform Approach



Analytic Workflow Component	Traditional BI Platform	Modern Data Platform
Data sources	Relational, on-premises	→ Relational, Hadoop, semi-structured, NoSQL, streaming, flat files, APIs → On-premises and/or cloud
Data movement	Requires duplication of data	Move once use often
Data model	Upfront dimensional modeling required (IT-built star schemas and/or cubes)	Upfront modeling not required (flat files/flat tables), ability to model data at time of need or logical modeling of data through data virtualization
Data ingestion and preparation	IT-produced	IT-enabled with built in data governance
Content authoring / Querying	Primarily IT staff, but also some power users, largely SQL based querying	Business users and automated through automated insights, mix of querying options
Analytics	Predefined, ad hoc reporting based on a dimensional model	Free-form exploration and visualization, with in context data manipulation, Natural language and automated insights
Insight delivery	Distribution and notifications via scheduled reports or a portal	Sharing and collaboration, storytelling, chat bots, and open APIs
Advanced Analytics (Machine Learning)	Lacking or independent siloed effort with little or no operationalization	IT Enabled Analytics Sandbox, Adoption of Automated Machine Learning, Embedding of AI within experiences and MLOps
Data Governance	Afterthought and rigid with a focus on providing Truth	Forethought and flexible with a focus on providing Trust

The 5-Week Rapid Data Architecture Assessment and Recommendations

A tightly scoped 5-week fixed cost engagement with a full execution plan that puts you on your path to building your next generation modern data foundation

WHY

Organizations embarking on customer-centric and transformative journeys end up realizing that the **key inhibitor for meeting digital ambition is the lack of a modern data foundation**. A data foundation that is flexible, available to all, elastic and can evolve over time

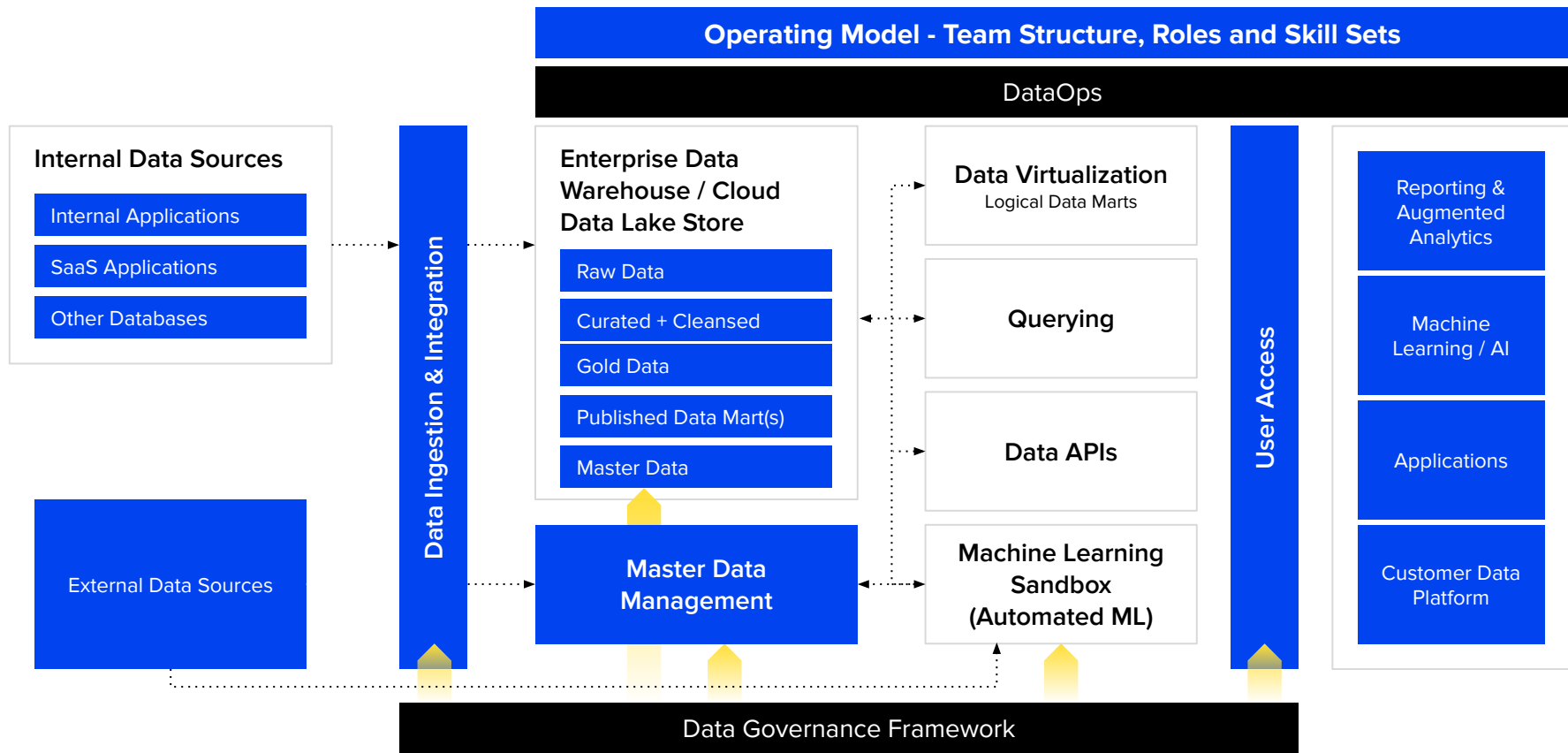
HOW

Through a **tightly scoped fixed cost 5-week engagement, Productive Edge works with your team through a series of short workshops** to gain understanding of future ambitions, assess current technology and define desired maturity across people, process and technology

WHAT

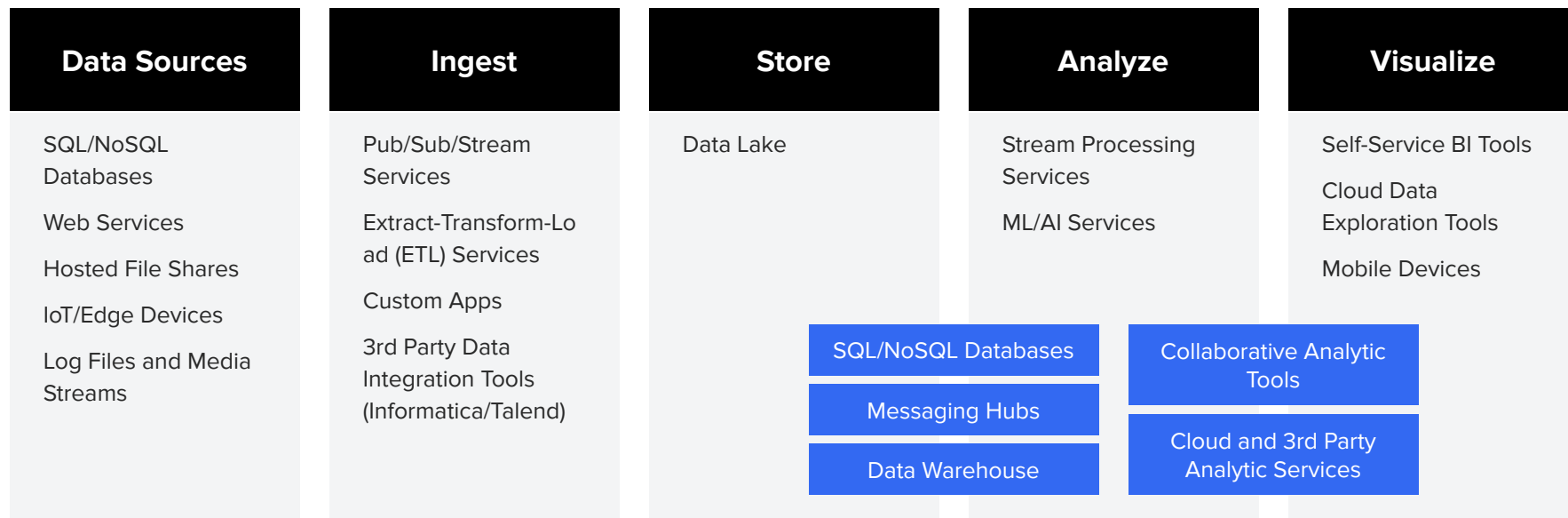
The result of the assessment is a recommended execution focused blueprint that provides the people, process and technology definition and roadmap required to build and sustain the modern data foundations that will power your digital strategy

Productive Edge Framework for a Foundational Modern Data Platform



Data Modernization Governing Committee / Enterprise Communication

Modern Data Platform Architecture Components



Orchestration and DataOps

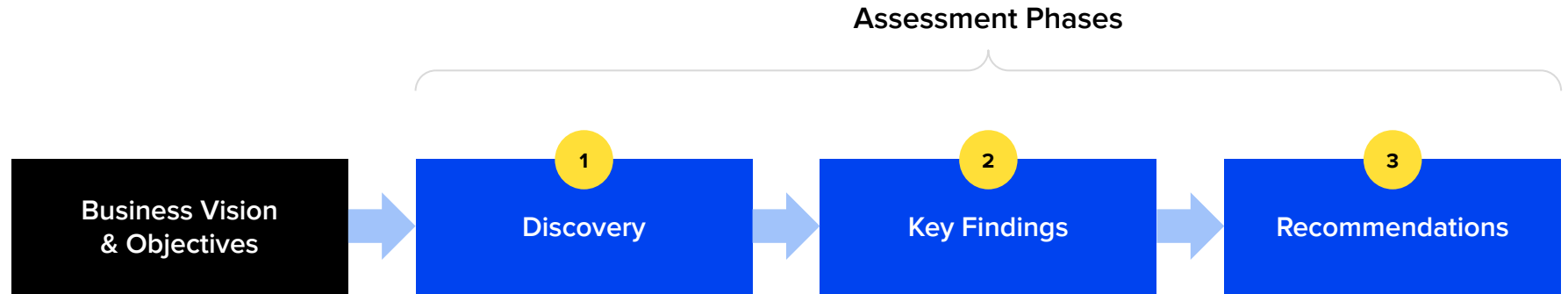
Achieve consistency, speed, and accuracy through automation

Data Governance

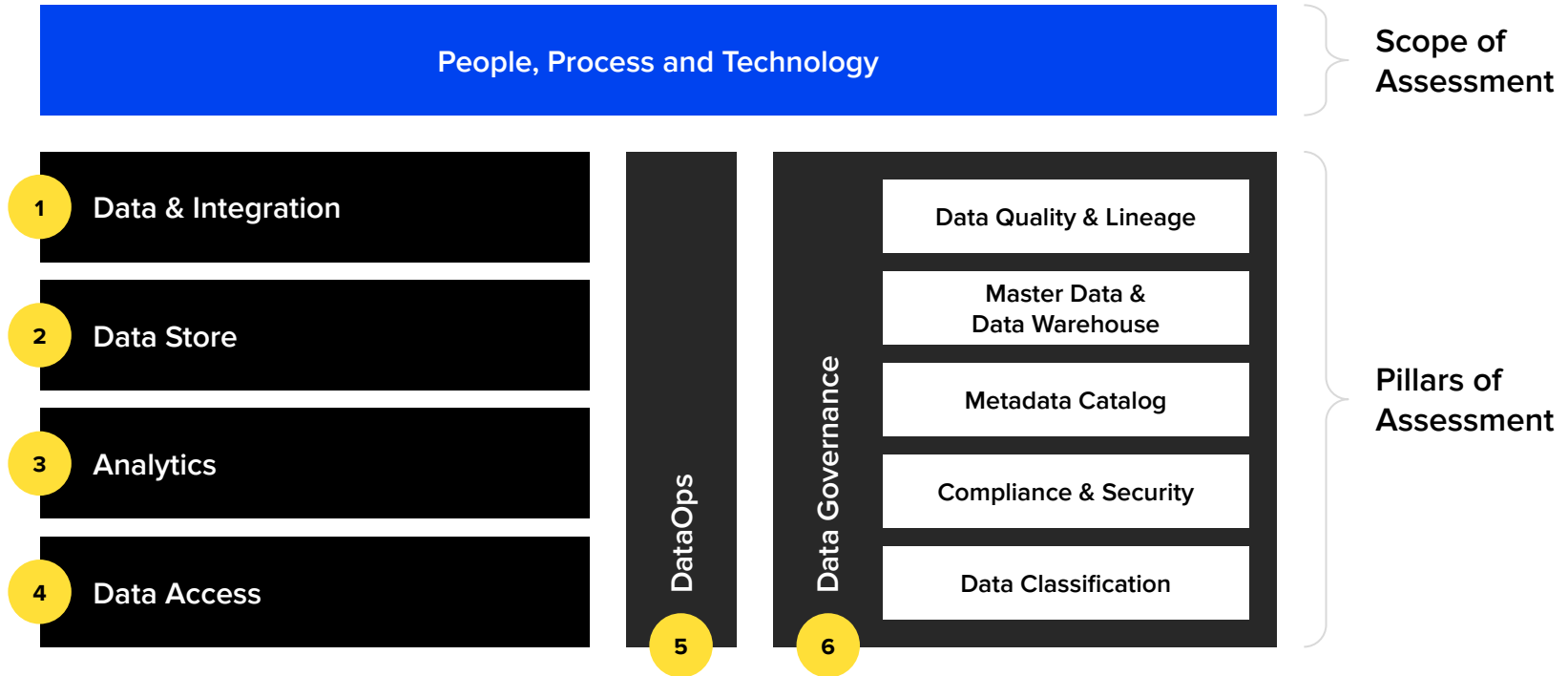
Data management, discovery, quality and security for more freedom of use

Assessment Phases

A tightly scoped 5-week fixed cost engagement with a detailed execution plan to build your next-generation modern data foundation with a focus on data governance, data lake, ML sandbox, and DataOps



Scope and Pillars of Assessment



PE 5 - Week Rapid Modern Data Platform and Analytics Assessment

Productive Edge suggests the use of workshops for driving discussions and scope for various workstreams



Workshop Description	Suggested Customer Participants	Duration
Workshop 1: Understand and document key analytics and AI use cases	Business Team	1 workshop, 2 hours
Workshop 2: Discuss internal data source integration, access and systems	Business Team, IT	1 workshop, 2 hours
Workshop 3: Define master data needs and target maturity	Business Team, IT	1 workshop, 1 hour
Workshop 4: Define data governance scope and target maturity	Business Team, IT	1 workshops, 2 hours each
Workshop 5: Define physical data lake components to be used, system and versioning considerations, design and architecture to support overall approach	IT	1 workshop, 2 hours
Workshop 6: Define users, user access needs, roles and entitlements	Business Team, IT	1 workshop, 1 hours
Workshop 7: Define target DataOps process, roles and responsibilities	Business Team, IT	1 workshop, 1 hours

PE 5 - Week Modern Data Platform and Analytics Strategy



Deliverables

- 1 Business goals and representative use cases
- 2 Data integration strategy for key data sources aligned with priority along with example data pipeline
- 3 Master data scope definition
- 4 Target modern data architecture for ingesting raw data, rules around data cleansing, data curation, managing gold data and querying through data virtualization and other querying methods
- 5 An iterative data governance scope and roadmap
- 6 Physical data lake design and architecture to adopt modern data architecture principles
- 7 User access, user access needs, roles and entitlements
- 8 DataOps process, roles and responsibilities
- 9 Overall roadmap and suggested timeline
- 10 Recommendations and architecture blueprint

Productive Edge Consultant Roles

Our plug'n play team brings the right expertise at the right time



Role	Responsibilities
Digital Strategist	Current and future state map, prioritization, roadmap creation, aligning strategic goals to technology needs, defining KPIs and ROI
Cloud Data Architect	Design and architect modern data platform using current and emerging technologies. Lead teams and execute.
Data Engineer	Develop data pipelines, data cleansing, DataOps enablement
Machine Learning Engineer	Assist in developing machine learning models with a focus on data and feature engineering
Data Analyst	Interpreting data, generating insights and analyzing results using statistical techniques
Data Visualization Analyst	Building dashboards, reports, and creating visual stories



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Thank you!

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