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Microsoft
FAST TRACK
READY PARTNER

Spyglass Presents:
Data Platform DPi30

Microsoft Partner

Gold Data Analytics
Gold Project and Portfolio Management
Gold Application Development
Gold Collaboration and Content
Gold Cloud Platform
Gold Cloud Productivity

Microsoft

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Spyglass's Data Platform in 30 Days (DPi30)

- ## What is DPi30?
  - Data Platform in DPi30 is designed to help you create a data platform in Azure quickly and efficiently.
  - With Prebuilt Azure Blueprint for a secure Modern Data "Lakehouse" Deployment deploying a customizable new platform is quick and easy
  - With dozens of prebuilt templates provided with the Blueprint, code bases, tool kit and other assets to leverage; your platform will be up and running before you know it

- ## DPi30 will allow your business to:
  - Integrate multiple data sources to create an intelligent Data Lake that supports your business strategies
  - Quickly build and deploy intelligent apps, backed by Azure's prebuilt AI capabilities
  - Leverage the technology stack and data engine of your choice
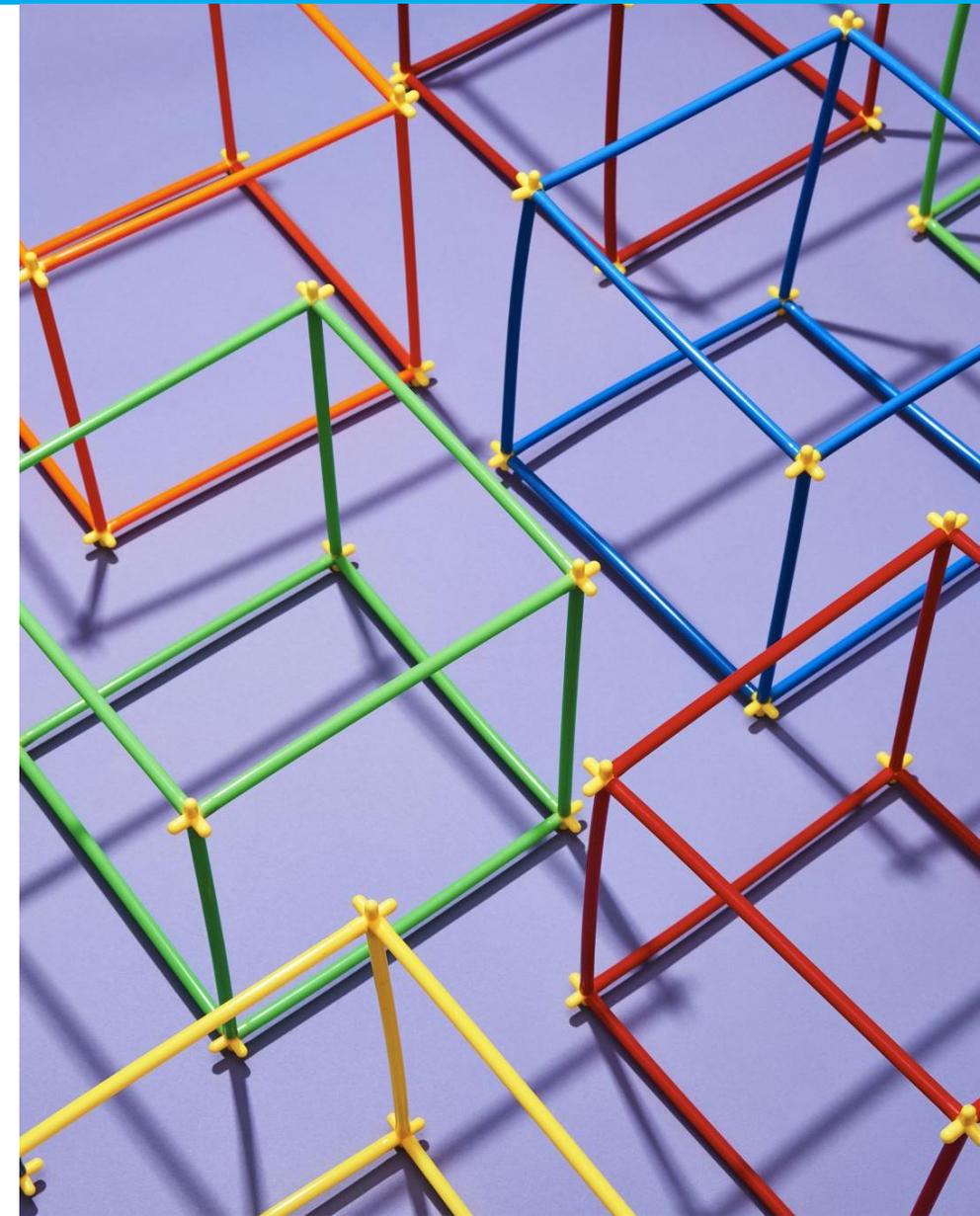
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Spyglass DPi30 Approach

1. **Strategy & Plan: Analytics and Design Workshop**
   - Identify the who, what, when, and why including inventory review.
   - Envision the role of a modern data and analytics platform for your organization
   - Identification of Advanced Analytical Scenarios
   - Analyze the customer data estate, infrastructure, applications, workloads, and data scenarios to scope the transition requirement

2. **Build:** Implement Blueprint and Landing zone
   - Design and deploy the Landing Zone for data platform modernization

3. **Transition:** Get your solution into the hands of users, get feedback, and decide what to change or add.
   - Training and hand-off

4. **Advance**: Model the data (decide how the data you need and create will be organized, accessed, and stored) and sketch out the app or report screens.
   - Design and implement Azure Data Services to host your data
   - Design and build new Business Intelligence insights
   - Implement ongoing cloud and data governance
   - Review additional scenarios and develop roadmap to an optimized environment based on business goals

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DPi30 Toolkit

- Security First Azure Blueprint
- Solution Design Template
- Planning and Delivery Checklists
- Documented Development Practices
- Documented Architecture Design Patterns
- Capacity Assessment and Planning Tools
- Security and Compliance Checklists
- Performance Management Checklist
- Synapse SQL Administration Toolkit
- Experienced Deployment Engineers
- Solution Delivery Template

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Spyglass DPi30 Benefits

- Spyglass DPi30 provides the following benefits:
  - **Time to Market** – faster and more accurate insights and predictions 2-10x faster
  - **Security**– Most secure, compliant and scalable platform with best-in-class compliance out of the box
  - **Flexibility** – Works with your current data sources to get the most from existing investments and grows with your business
  - **Repeatability** – Spyglass's proven methodology and toolkit provides repeatable process and accelerators to speed the development of your solution

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Next Steps

Scoping Session to understand client's data landscape

Process paperwork

Start building platform!

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Thank You

While data grows 400%, less than 30% gets analyzed

4x →

44ZB

175ZB

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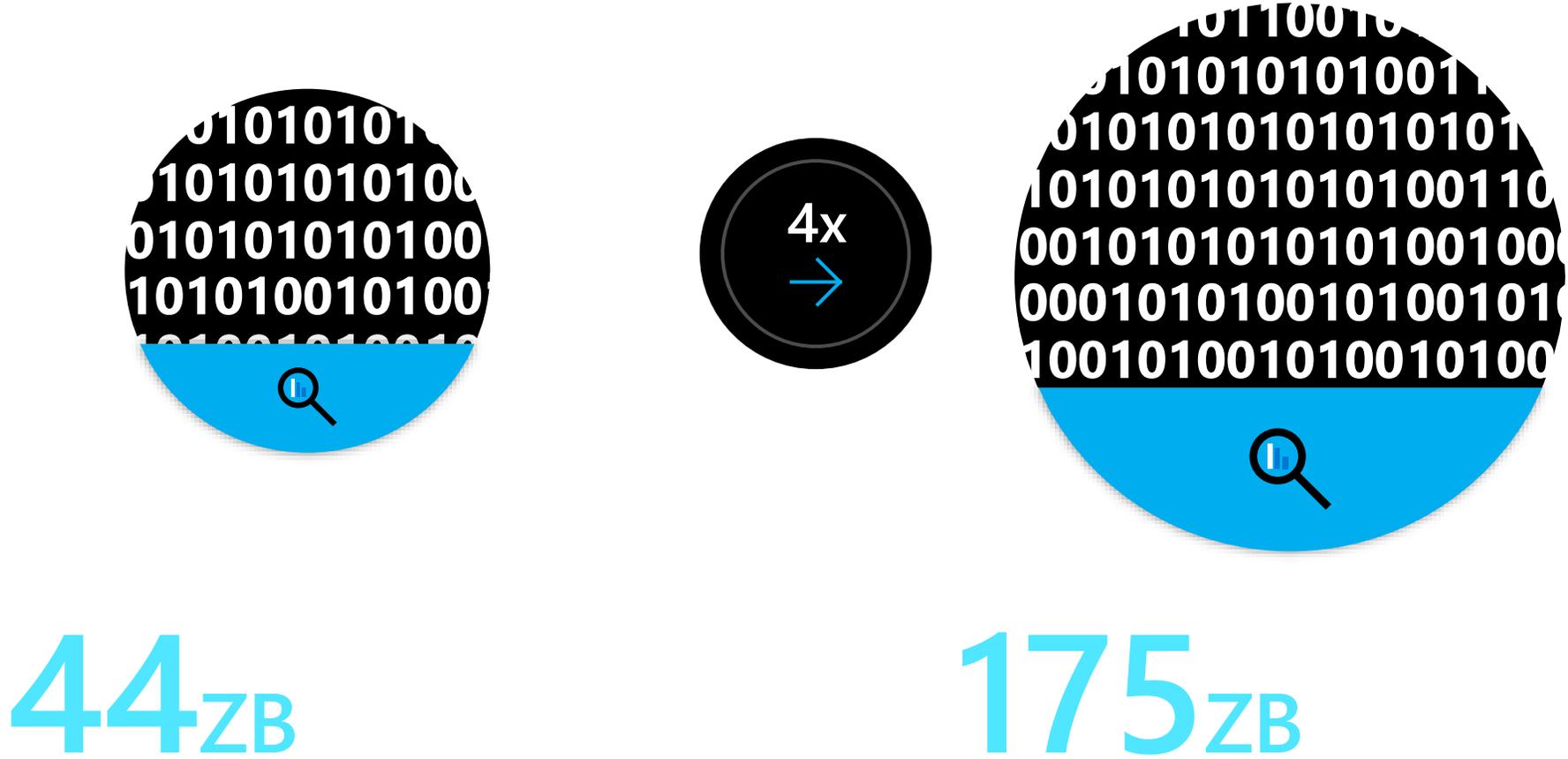
Analytics & AI is the #1 investment for business leaders, however they struggle to maximize ROI
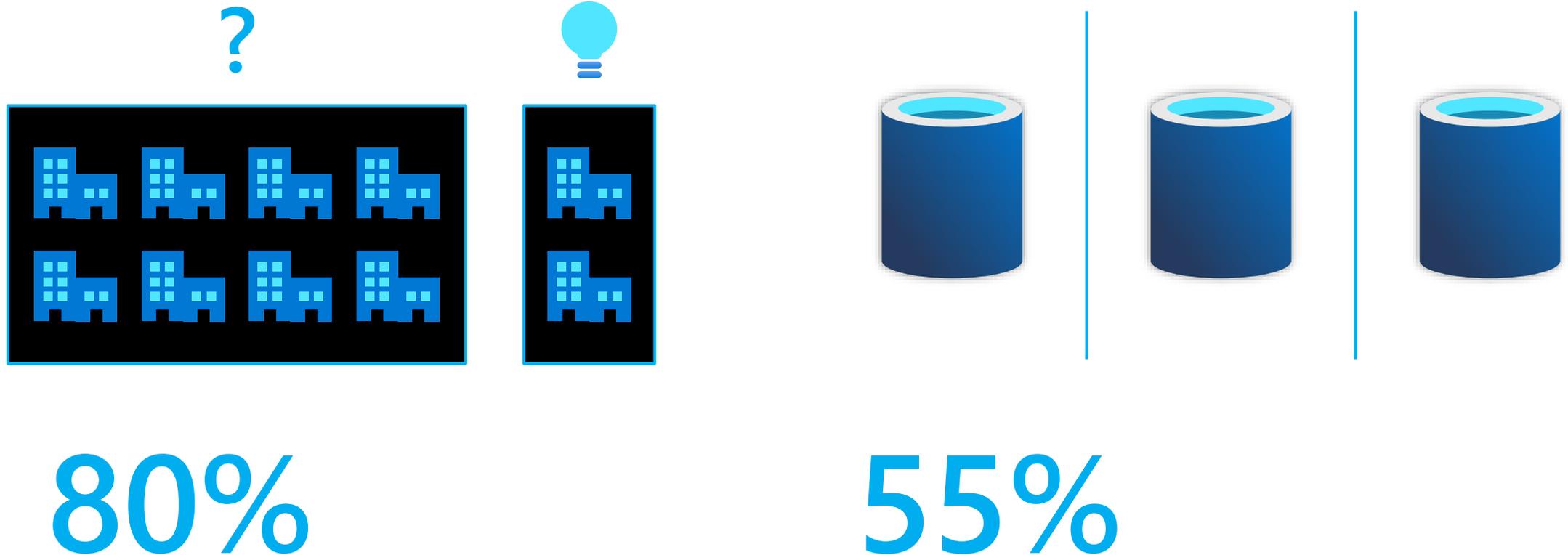
80%

55%

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More analytics solutions lead to more silos

Data

Structured
Unstructured
Streaming
Big data
Cloud
On-premises
IoT/edge

Technologies

Map Reduce
Open source projects
Data mart
Data warehouse
Data lake
Spreadsheets
RDMS
Data visualization tools
ML models
AI services

Skills

SQL
Python
Java
R
Industry Schemas
Data modeling
Data cleaning
Data integrations

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paradox

Each new technology creates another siloed operation

Big data

Data integration

Machine learning

Business intelligence

Data governance

Security

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# Data professionals shouldn't have to continually learn new skills to deliver insights

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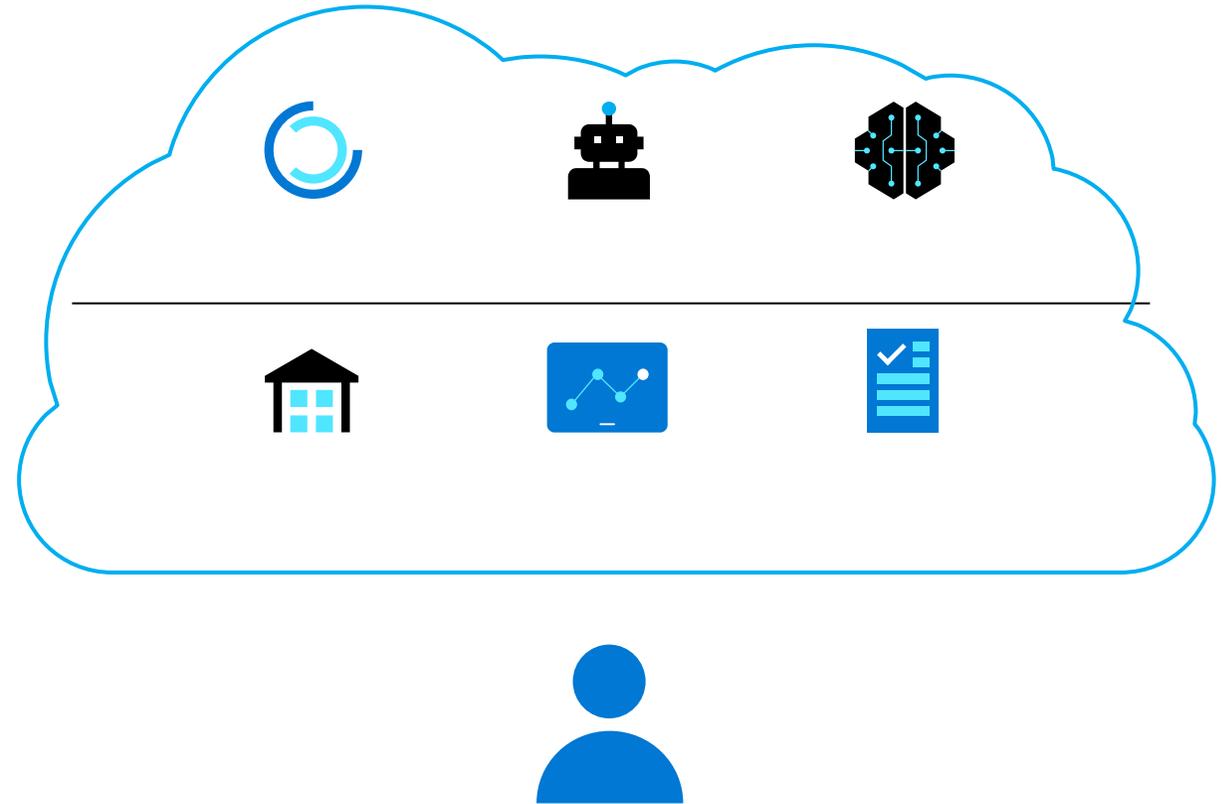
Analytics should seamlessly be part of the way users work— rather than a factor for creating more siloes

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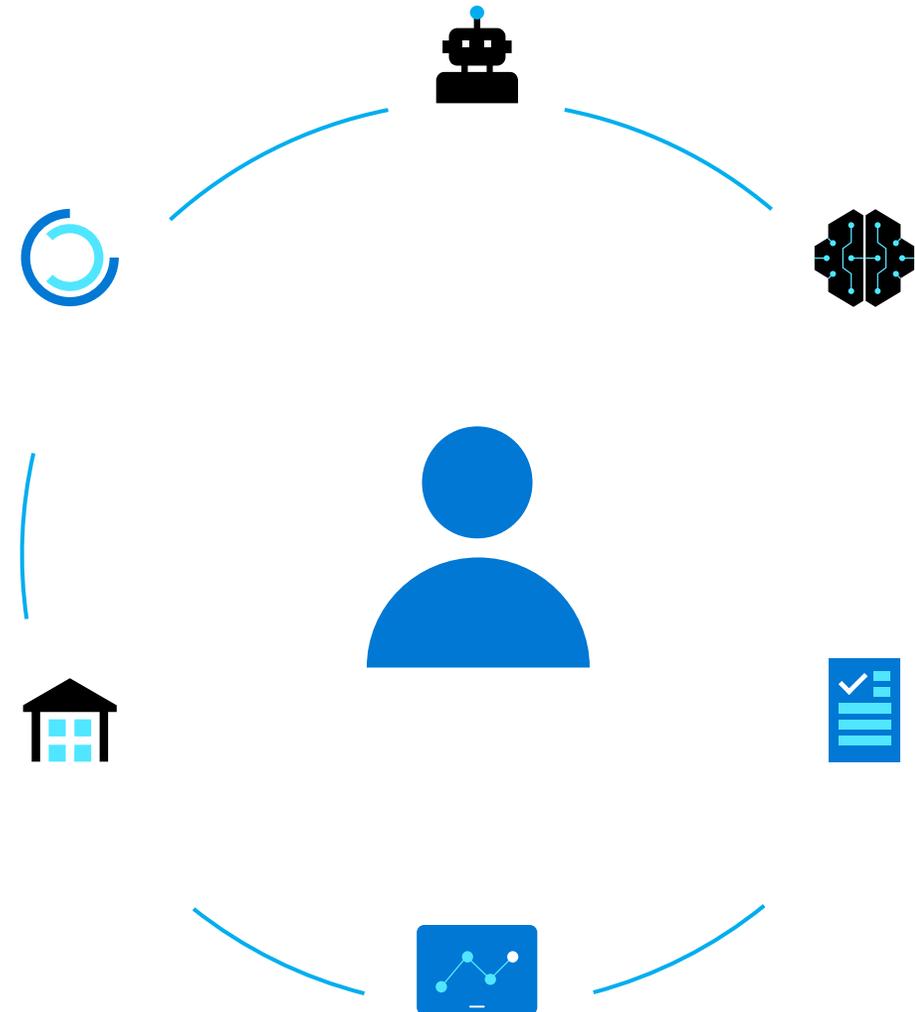
Azure Synapse delivers the full continuum of analytics in a single service

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Azure Synapse Analytics
Limitless analytics service with unmatched time to insight

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Azure Synapse Analytics

The first unified, cloud native platform for converged analytics

Azure Synapse is the only unified platform for analytics, blending big data, data warehousing, and data integration into a single cloud native service for end-to-end analytics at cloud scale.

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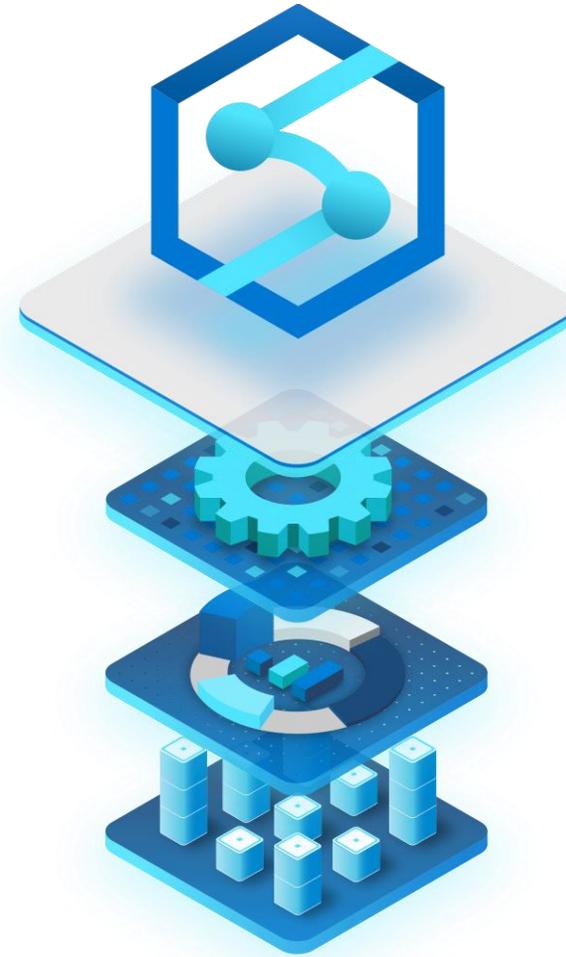
Azure Synapse Analytics

Powered by a new cloud native distributed SQL engine

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Serverless + dedicated SQL

Flexible consumption models

Serverless pay-per-query ideal for ad-hoc data lake exploration and transformation

Dedicated clusters optimized mission-critical data warehouse workloads

Serverless

Dedicated

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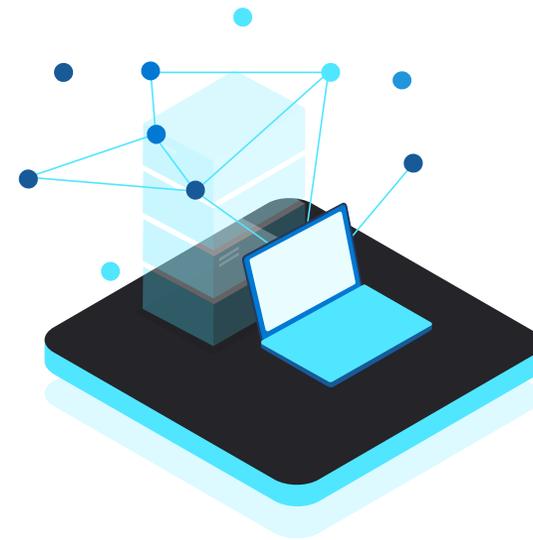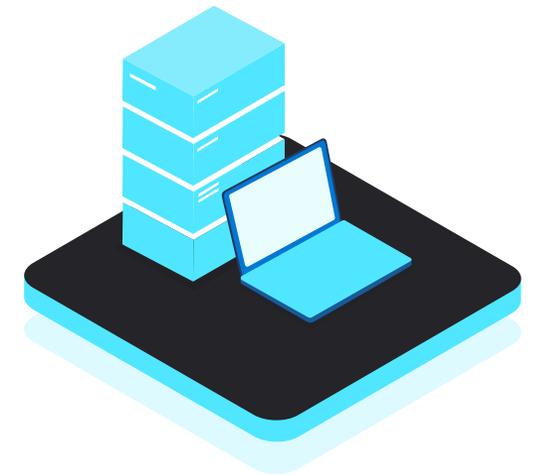
Let's dive deeper

➢ **Comprehensive security and compliance**

➢ **Streamlined data integration**

➢ **Flexible data warehousing**

➢ **Real-time operational analytics**

➢ **Integrated machine learning**

➢ **Power BI + Azure Synapse**

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The modern data warehouse

LOB sources

Logs and streams (unstructured)

Media (unstructured)

Files (unstructured)

Azure Data Factory

Azure Databricks

Azure Synapse Analytics

Azure Data Lake Storage

Business services

Power BI

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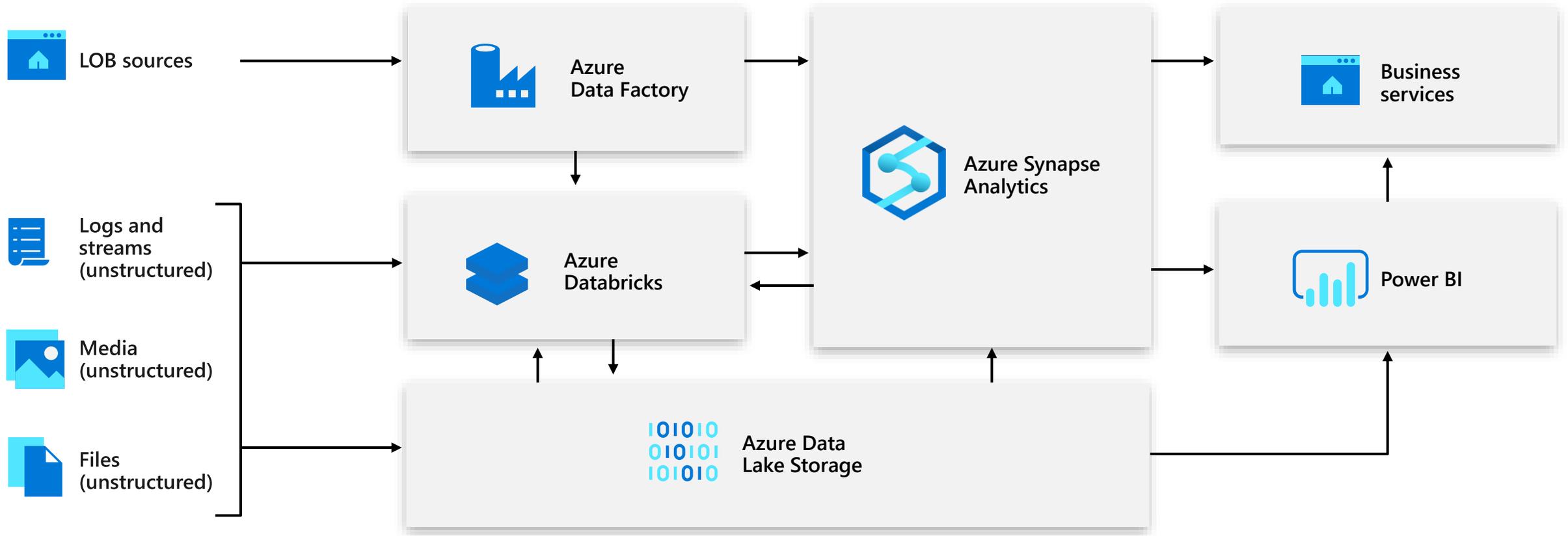
Azure Synapse Analytics

Limitless analytics service with unmatched time to insight

Limitless Scale

Industry-leading performance on demanding workloads

Powerful Insights

Integration with Power BI and Azure Machine Learning
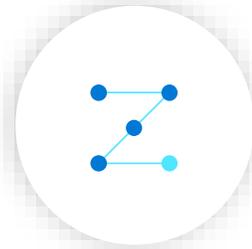
Unified Experience

Data prep and management, big data, and AI in a single workspace

Unmatched Security

Fine-grained access controls and layers of protection

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Power BI

Import

Great for small data sources and personal data discovery

Fine for CSV files, spreadsheet data and summarized OLTP data

DirectQuery

The enterprise solution

Avoid data movement

Delegate query work to the back-end source; take advantage of Azure Synapse's advanced features

Composite Models & Aggregation Tables

Why choose? Import and DirectQuery in a single model

Keep summarized data local; get detail data from the source

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# Power BI + Azure Synapse Analytics

Industry leading combination for Enterprise Business Intelligence in the Cloud

Azure Synapse

Power BI

Performance

Security

Workload Management

+

In-Memory

DirectQuery

Composite Models

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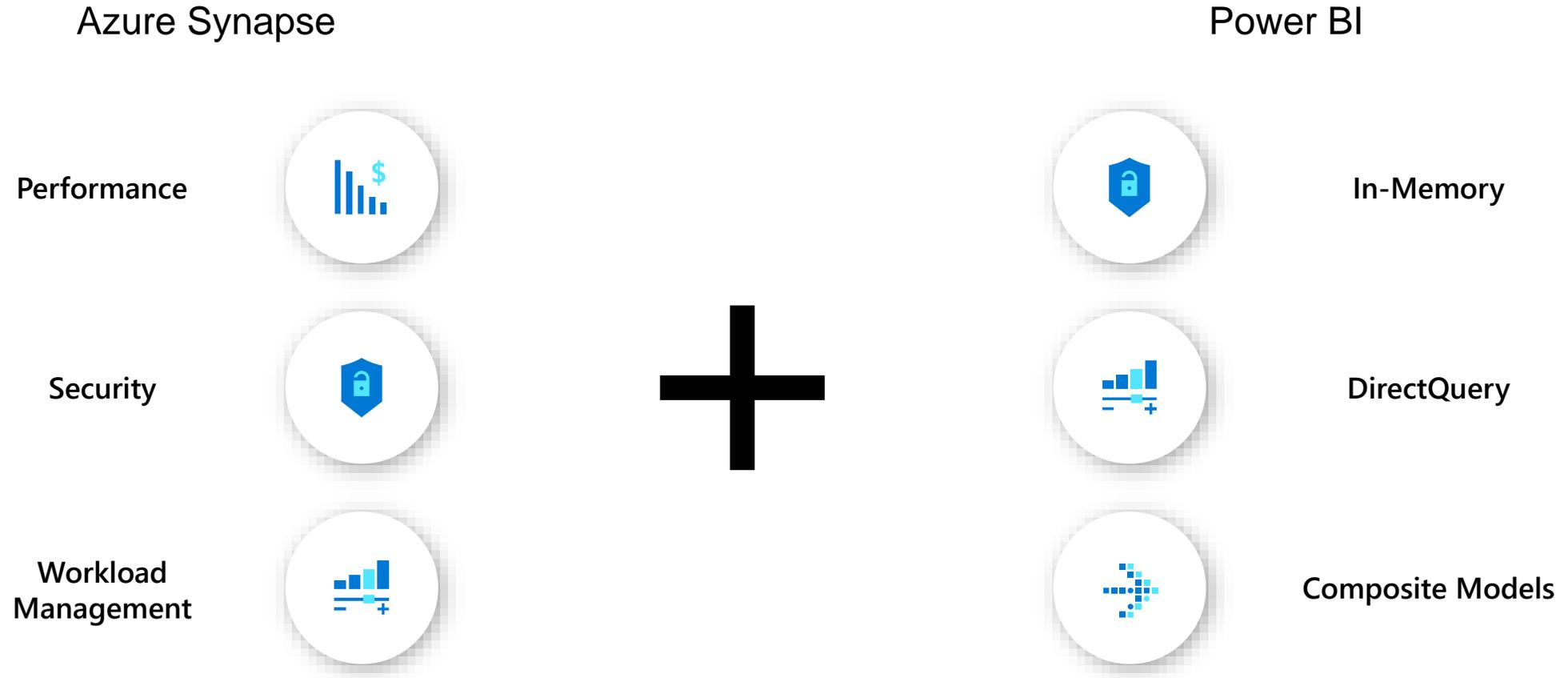
Azure Synapse performance advantage

- Azure Synapse's industry leading price-performance comes from leveraging the Azure ecosystem and core SQL Server engine improvements to produce massive gains in performance.

- These benefits require no customer configuration and are provided out-of-the-box for every data warehouse

  - **Gen2 adaptive caching** – using non-volatile memory solid-state drives (NVMe) to increase the I/O bandwidth available to queries

  - **Azure FPGA-accelerated networking enhancements** – to move data at rates of up to 1GB/sec per node

  - **Instant data movement** – leverages multi-core parallelism in underlying SQL Servers to move data efficiently between compute nodes

  - **Query Optimization** – ongoing investments in distributed query optimization

TPC-H 30TB Cloud DW Benchmark

DW5000C	DW15000C	DW30000C	2X-Large	3X-Large	4X-Large	BigQuery	dc2.8xlarge 10N	dc2.8xlarge 30N	dc2.8xlarge 60N
$40	$33	$47	$103	$110	$152	$564	$54	$48	$51

Azure Synapse   **Snowflake**   **Google**   **Redshift**

TPC-DS 30TB Cloud DW Benchmark

Azure Synapse	Amazon Redshift	Snowflake Standard	Snowflake Enterprise	Google BigQuery Flat Rate	Google BigQuery Per Byte
$153	$286	$206	$309	$570	$1310