DAaaS on Azure

Cloocus Data Analytics as a Service

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PART 01

DAaaS (Data Analytics as a Service) 소개

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Data Analytics As A Service [DAaaS]

Data Sources

Business Users

OLTP Databases

Enterprise Applications

Third-Party

Web/Log Data

IoT

Data Engineering

Data Lake

Data Warehouse

Data Science

Data Visualization

SPARK BEYOND

Power BI

Cloocus Data & AI Platform

Microsoft Azure

Azure Synapse Analytics

Data Monetization

Operational Reporting

Ad Hoc Analysis

Real-time Analysis
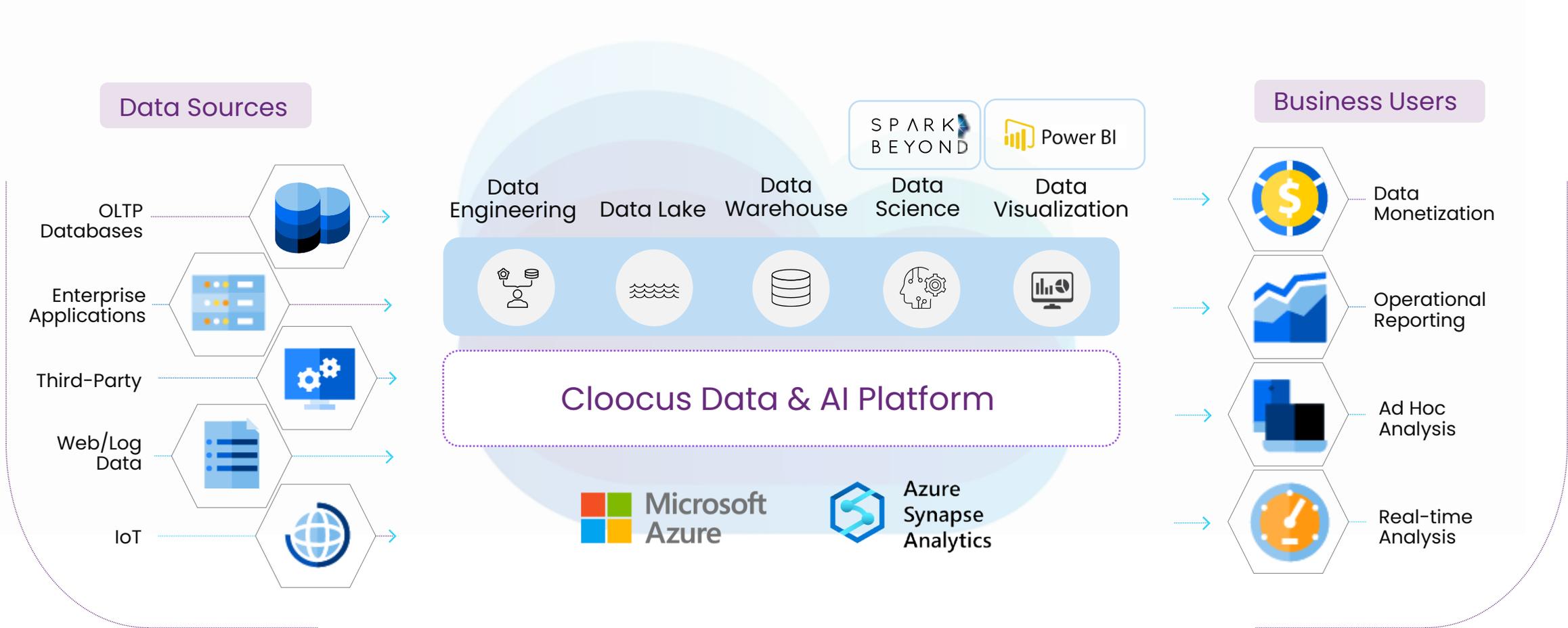
PART 02

DAaaS on Azure 구성요소 및 프로세스

2. DAaaS On Azure 구성요소 및 프로세스
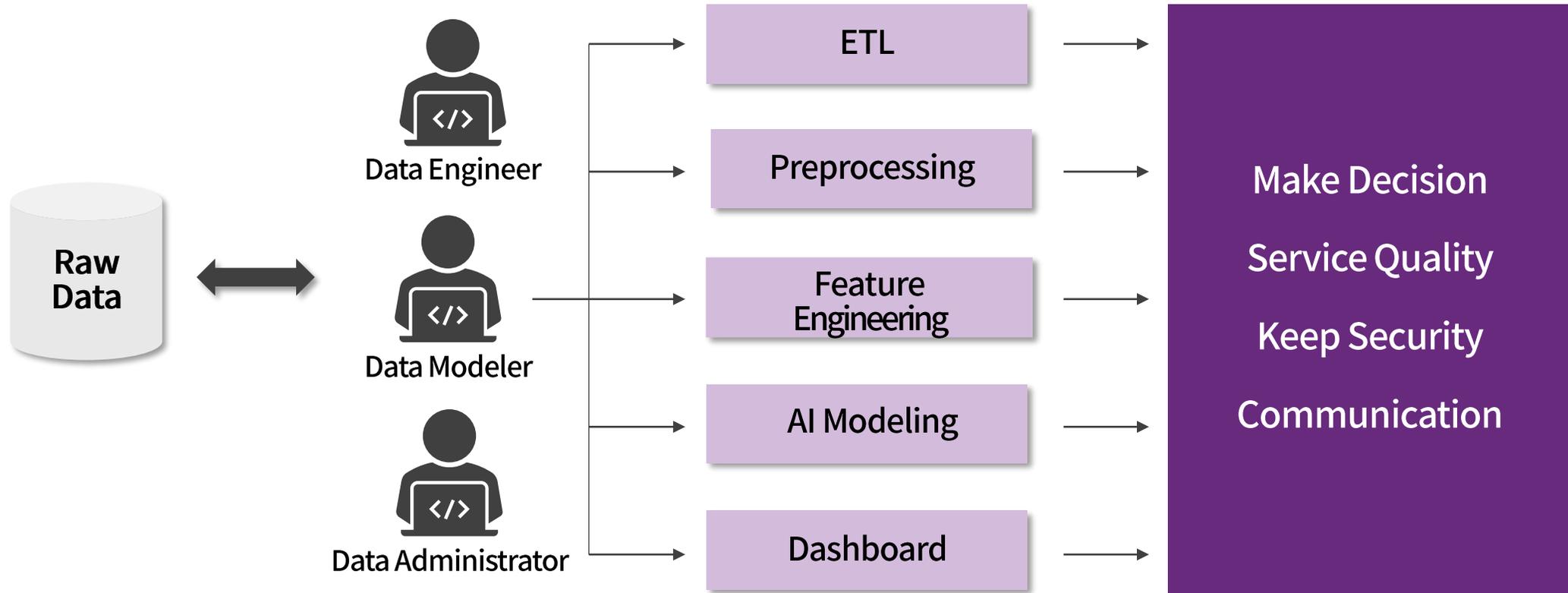
2.1) DAaaS on Azure 구성요소

2. DAaaS On Azure 구성요소 및 프로세스

2.1) DAaaS on Azure 구성요소

Raw Data

DAaaS

Data Administrator

Make Decision

Service Quality

Keep Security

Communication

2. DAaaS On Azure 구성요소 및 프로세스

2.1) DAaaS On Azure 구성요소

DAaaS

Collaboration Integration Visualization ETL

AI&Analytics Data management Easy to use Automation

Microsoft Azure
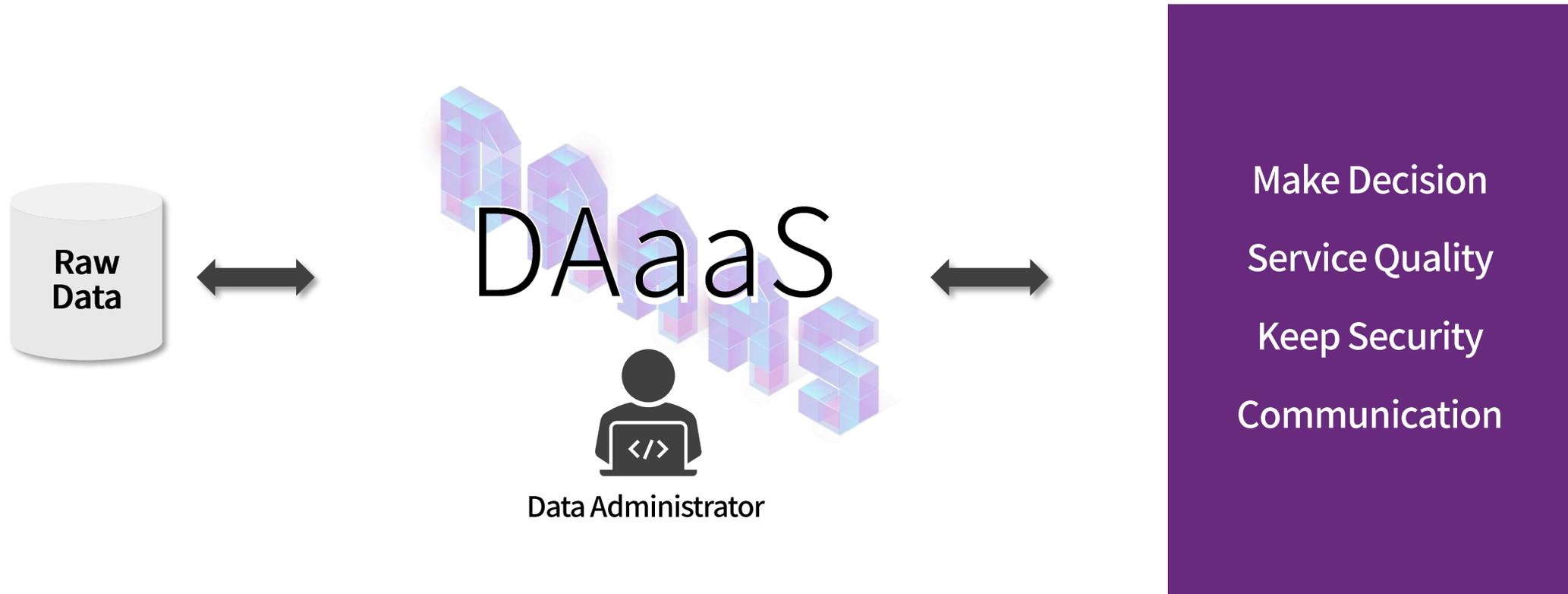
2. DAaaS On Azure 구성요소 및 프로세스

2.1) DAaaS On Azure 구성요소

Azure Synapse
Analytics
(Workspace)
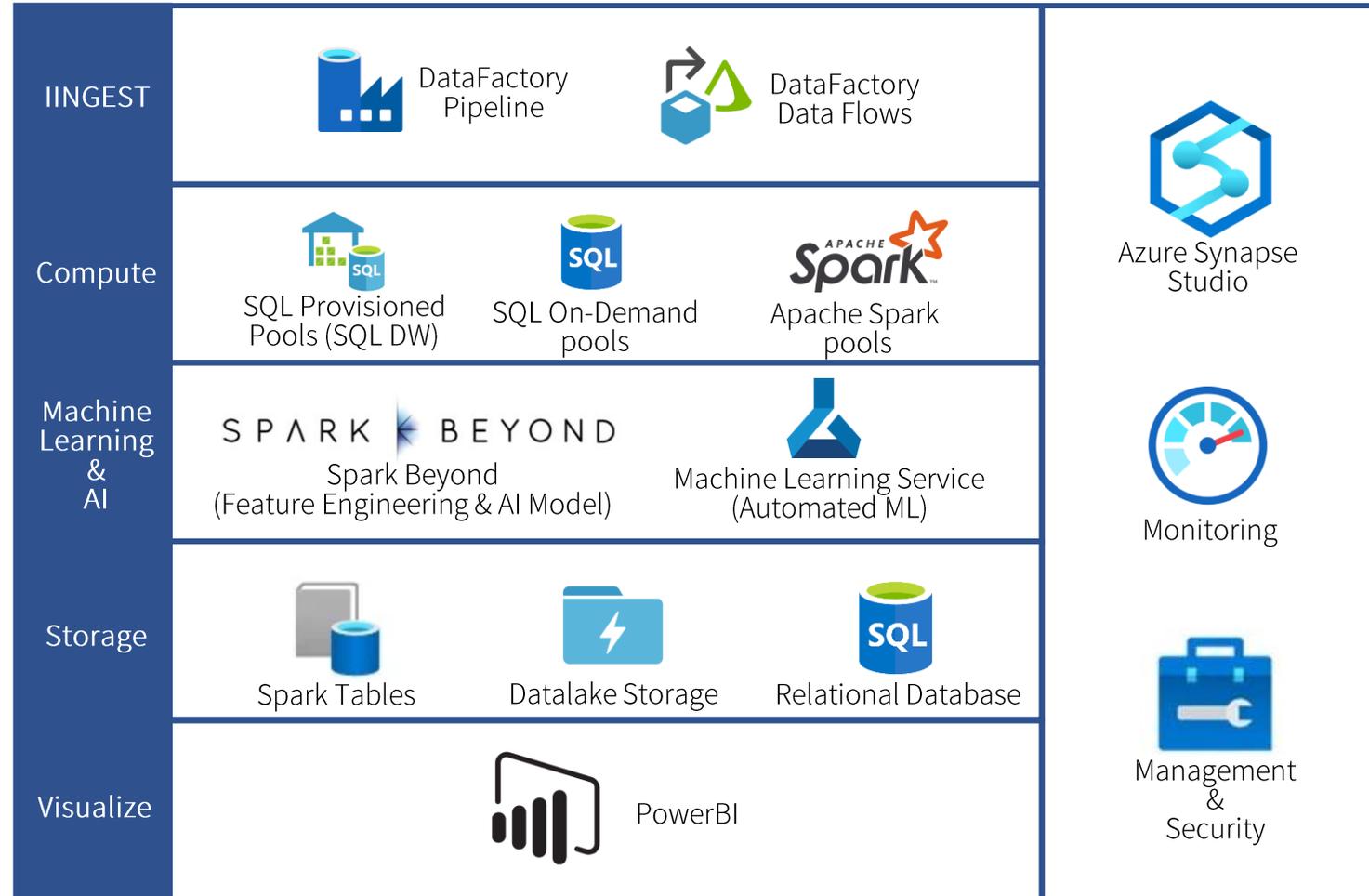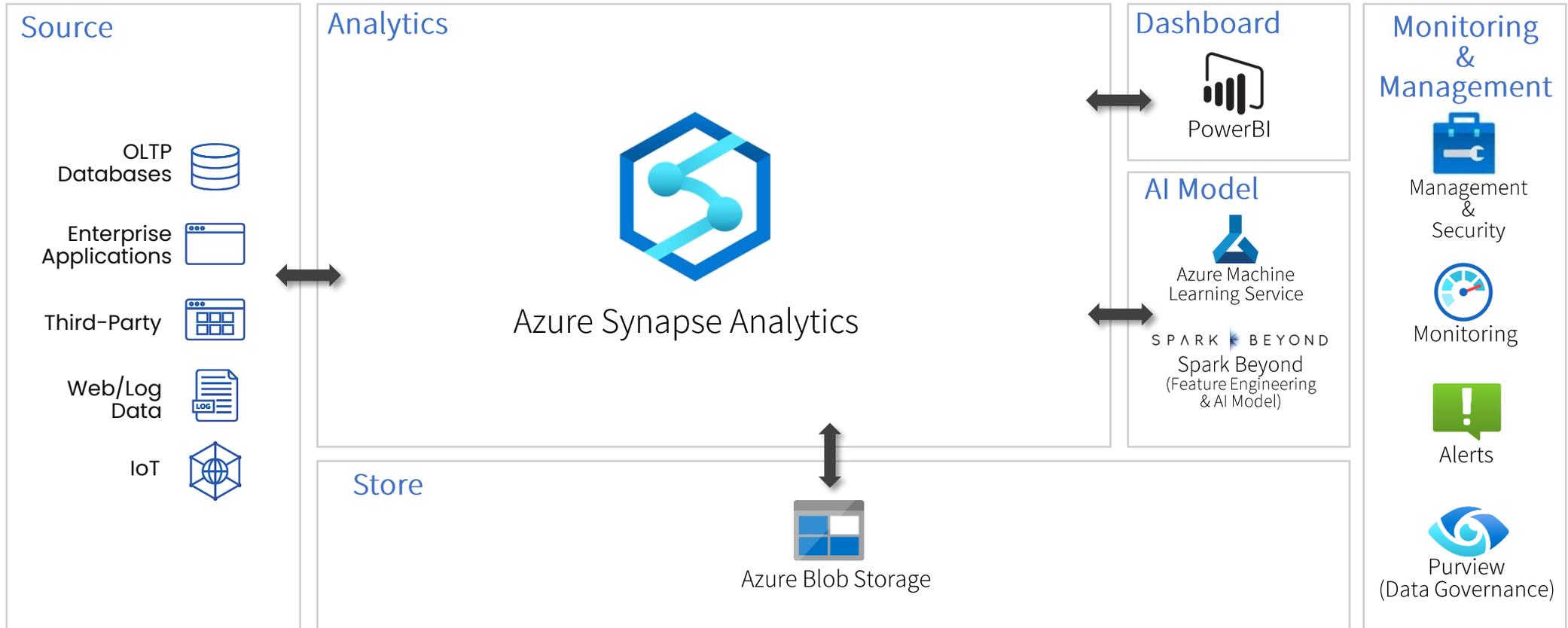
| IINGEST	DataFactory Pipeline	DataFactory Data Flows	
Compute	SQL Provisioned Pools (SQL DW)	SQL On-Demand pools	Apache Spark pools
Machine Learning & AI	Spark Beyond (Feature Engineering & AI Model)	Machine Learning Service (Automated ML)	
Storage	Spark Tables	Datalake Storage	Relational Database
Visualize	PowerBI		

Azure Synapse Studio

Monitoring

Management & Security

2. DAaaS On Azure 구성요소 및 프로세스

2.1) DAaaS On Azure 구성요소

2. DAaaS On Azure 구성요소 및 프로세스

2.1) DAaaS On Azure 구성요소
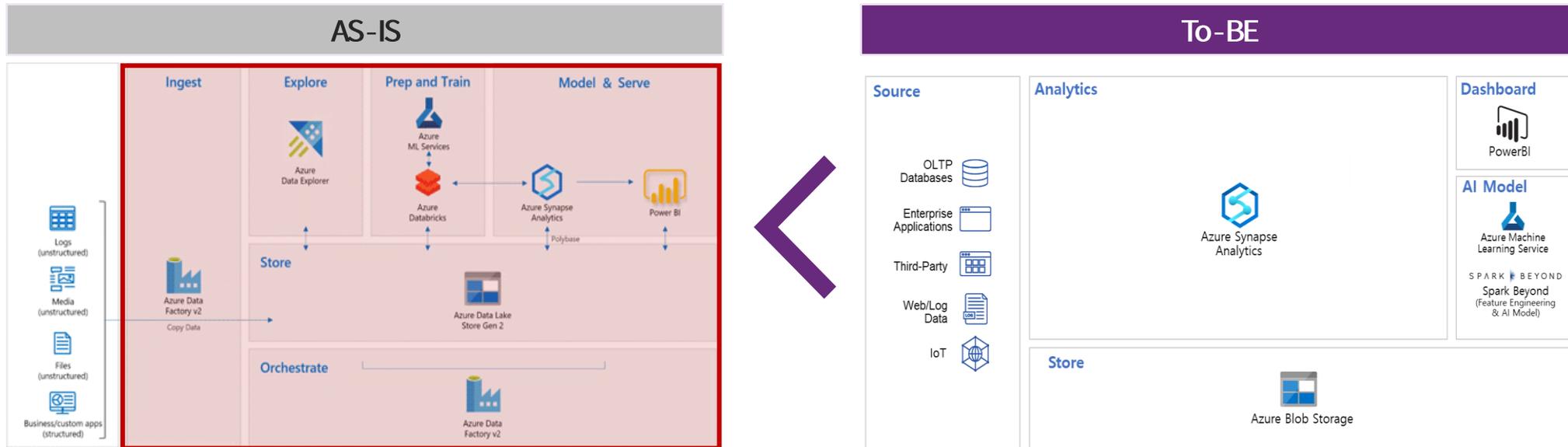
2. DAaaS On Azure 구성요소 및 프로세스

2.1) DAaaS On Azure 구성요소

① **Integration** End To End Pipeline

&
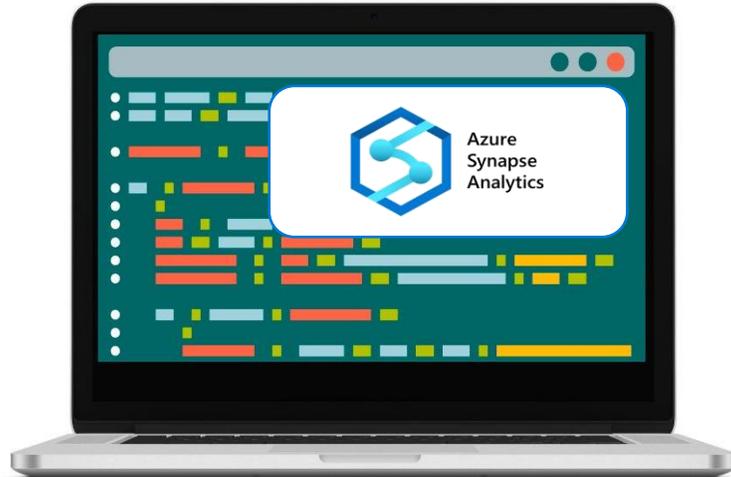
② **GUI** Feature Engineering + Modeling + Azure ML
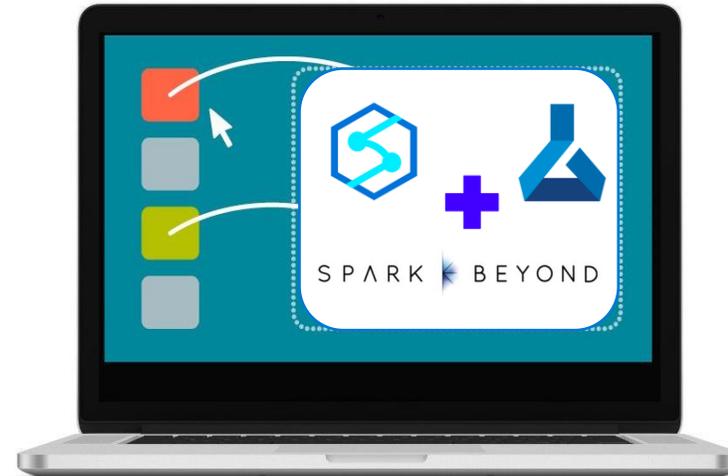
③ **Automation + ML DevOps**
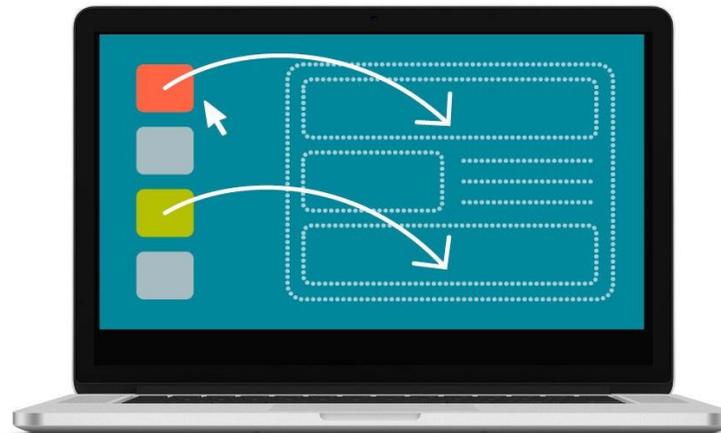
2. DAaaS On Azure 구성요소 및 프로세스

2.2) DAaaS Process
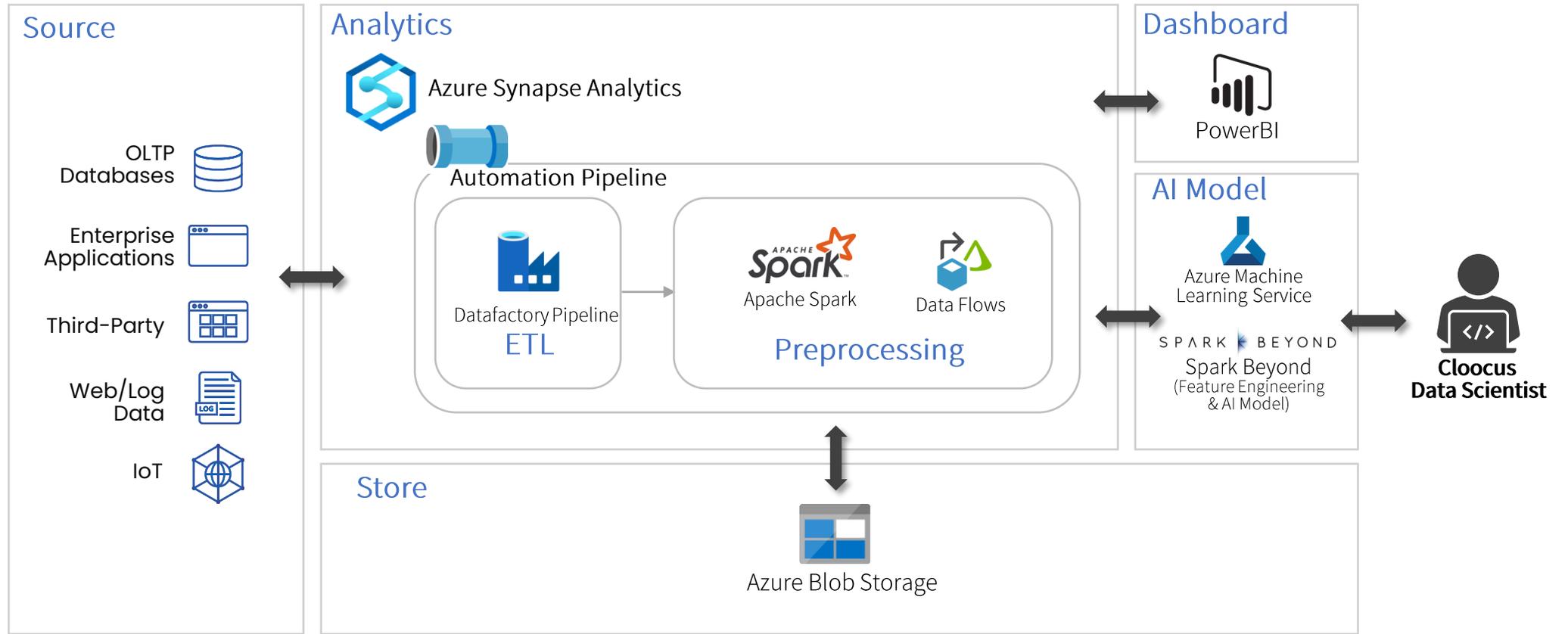
PART 03

Sample Data를 활용한 분석 예시 (with SparkBeyond)

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3. Sample Data를 활용한 분석 예시 (with SparkBeyond)

3.1) Data Overview

대상 데이터	• 「Used Car Data」 (URL: https://www.kaggle.com/austinreese/craigslist-carstrucks-data)
데이터 수집 기간	• 총 2개월 (2020년 10월 ~ 2020년 11월, 기준: Posting Date)

데이터 세부

craigslist

- 표본크기: 총 371,426 건, 17 columns
- 타겟 column : price

주행거리	제원	위도,경도
• 차량의 총 주행거리 • 단위 : mile • Numerical variable	• 제조사, 모델명, 색상, 실린더 수, 미션종류 등 차량에 대한 기본 정보 • Categorical variable	• 중고 차량의 현재 위치 • Lat, Long variable

PART 04
분석 Report(with Power B.I)

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Hands-On Session
분석 Report(with Power B.I)

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PART 05
Summary of DAaaS

5. Summary of DAaaS

Thank you

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