

COSTCO

Group 3

PRESENTED BY :-

- NEEL
- KETAN
- SHUBH
- RINKAL



OBJECTIVE

- TRANSFORMING COSTCO'S DATA
 - INCREASE FLEXIBILITY: THIS FLEXIBILITY IS CRUCIAL FOR HANDLING PEAK SHOPPING SEASONS OR UNEXPECTED SPIKES IN ONLINE ORDERS.
 - IMPROVING PERFORMANCE:
 - SCALABILITY: CLOUD ARCHITECTURE ENABLES COSTCO TO SCALE RESOURCES UP OR DOWN BASED ON DEMAND.
 - COST OPTIMIZATION: MANAGING COSTS WHILE MAINTAINING HIGH AVAILABILITY AND PERFORMANCE IS A CONSTANT CONCERN

PROBLEM STATEMENT

Scalability and Performance:

Balancing performance with cost-effectiveness is a challenge.

Legacy Systems and Scalability:

As Costco expands globally and faces seasonal demand fluctuations, legacy systems struggle to handle increased workloads.



VISION VISUALISATION



Stores



App and Website



User Activity



Cloud
Server



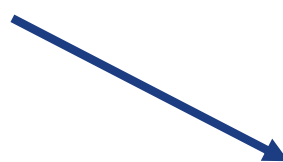
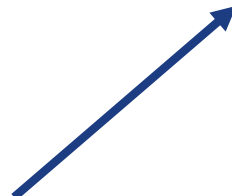
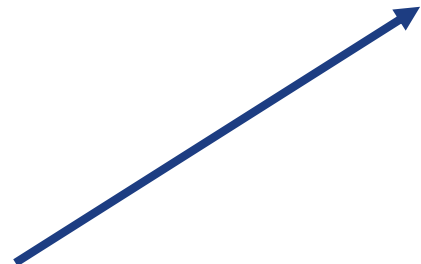
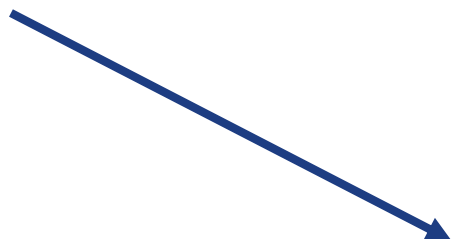
Inventory
Management



Web Analytics

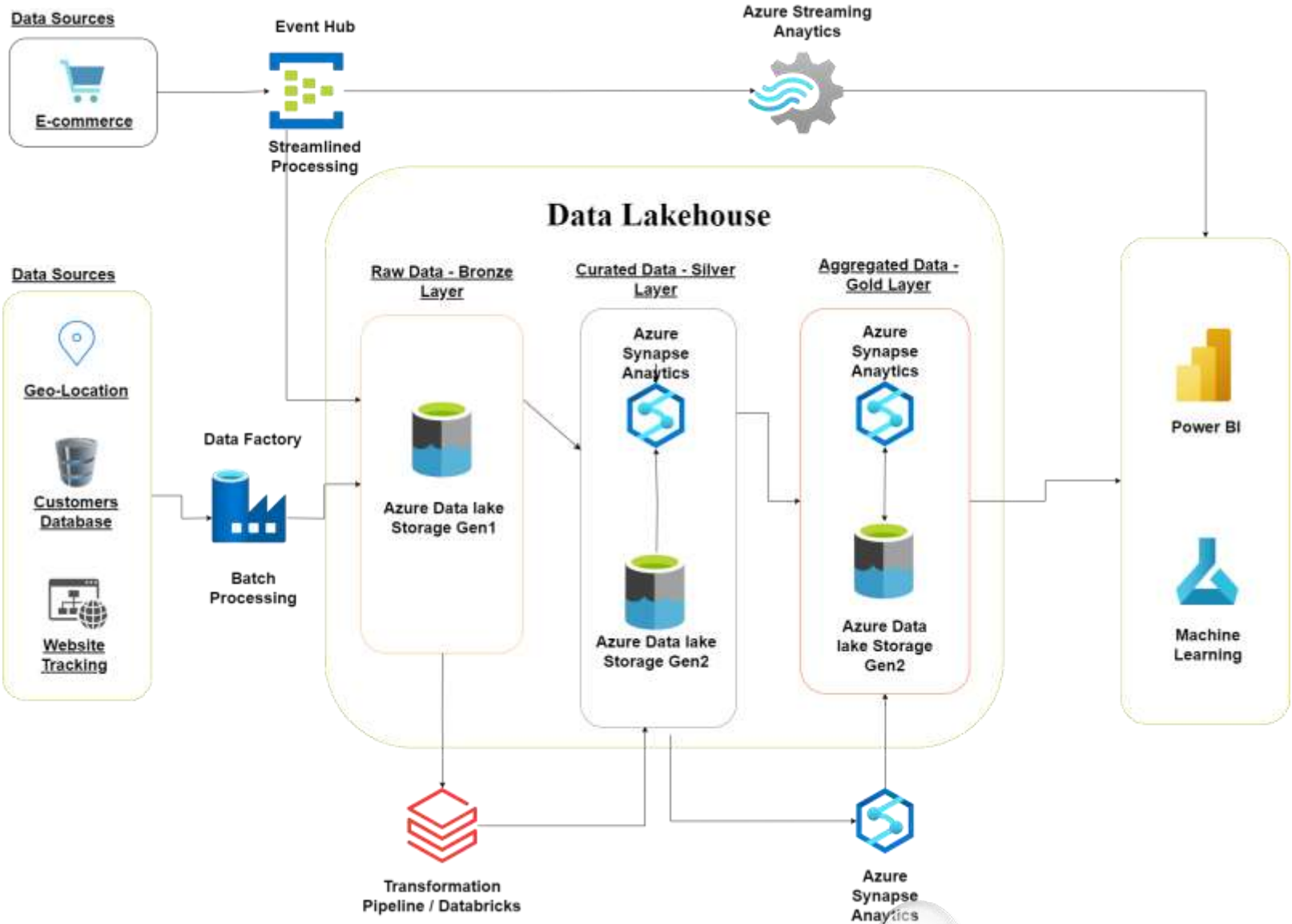


Audit and
Reporting



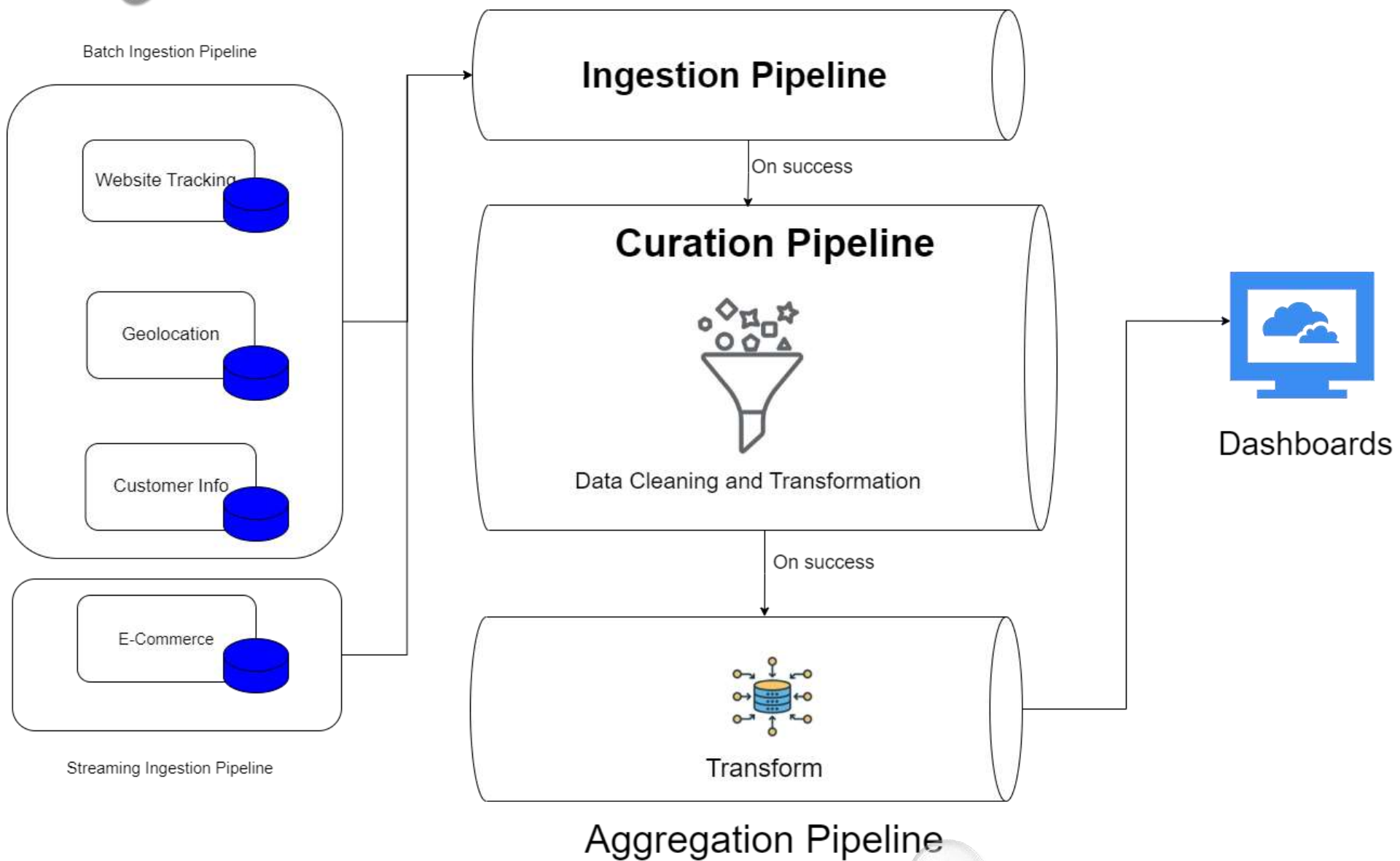


CLOUD ARCHITECTURE



DATA PIPELINE

The background is a dark gray surface with a subtle texture. A wavy line, composed of multiple parallel tracks in blue, green, and yellow, meanders across the frame. Scattered throughout are various water droplets of different sizes, some with highlights and shadows, giving them a three-dimensional appearance.



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graph TD; A[Data Ingestion] --> B[Data Storage]; B --> C[Data Analysis];
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Data Ingestion

Data Storage

Data Analysis

PIPELINE STRATEGY

DEPLOYMENT STRATEGY

Containerization

Content Delivery
Network

An aerial photograph of a multi-lane highway bridge spanning a body of water. The water is a deep teal color with visible ripples. Numerous water droplets of various sizes are scattered across the image, some on the bridge surface and others in the water. The word "THANKYOU" is centered in white, uppercase letters.

THANKYOU