

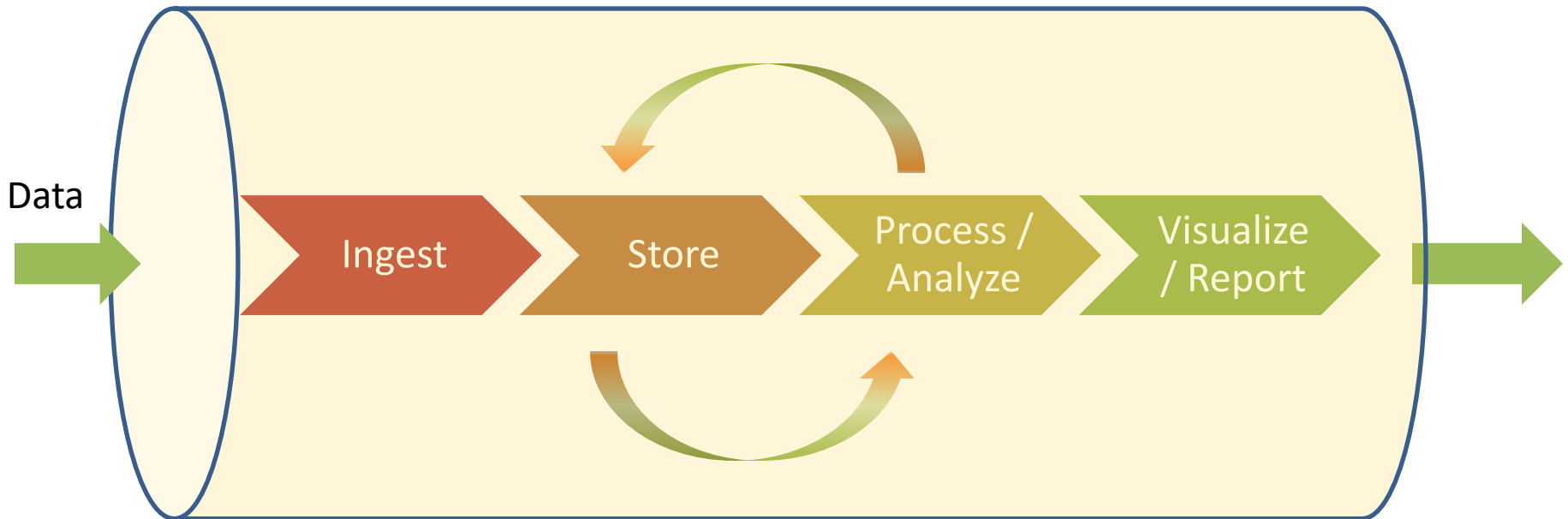
# High Level Design of a Hypothetical Data Analytics Service

Objective:

An architecture to support an Analytics Ecosystem that explains the following:

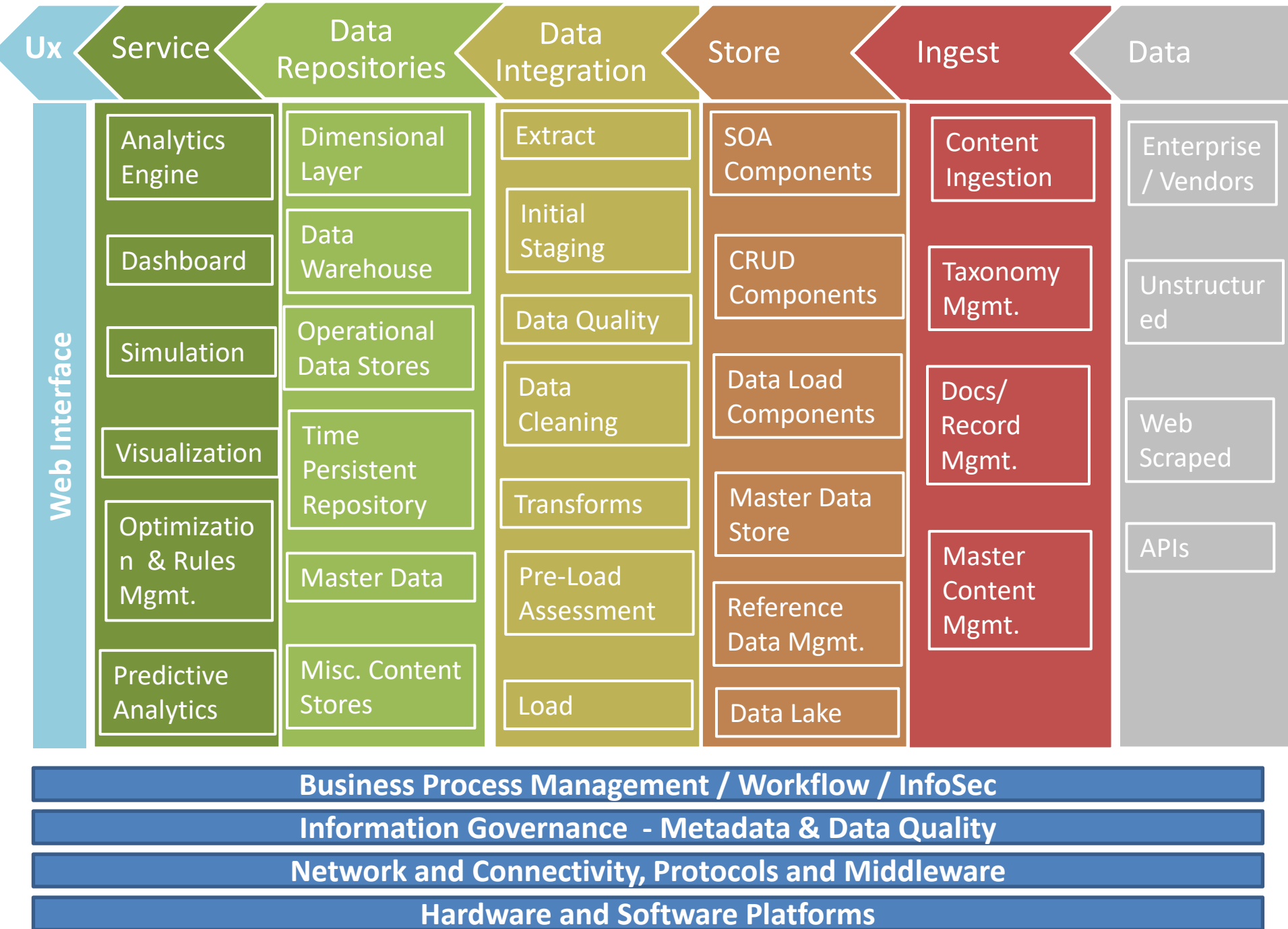
- Governance Structure
- Layers of Abstraction
- Flow of Data/Information
- Inherent Applications and Database modules

## Activity: Data Flow Pipeline

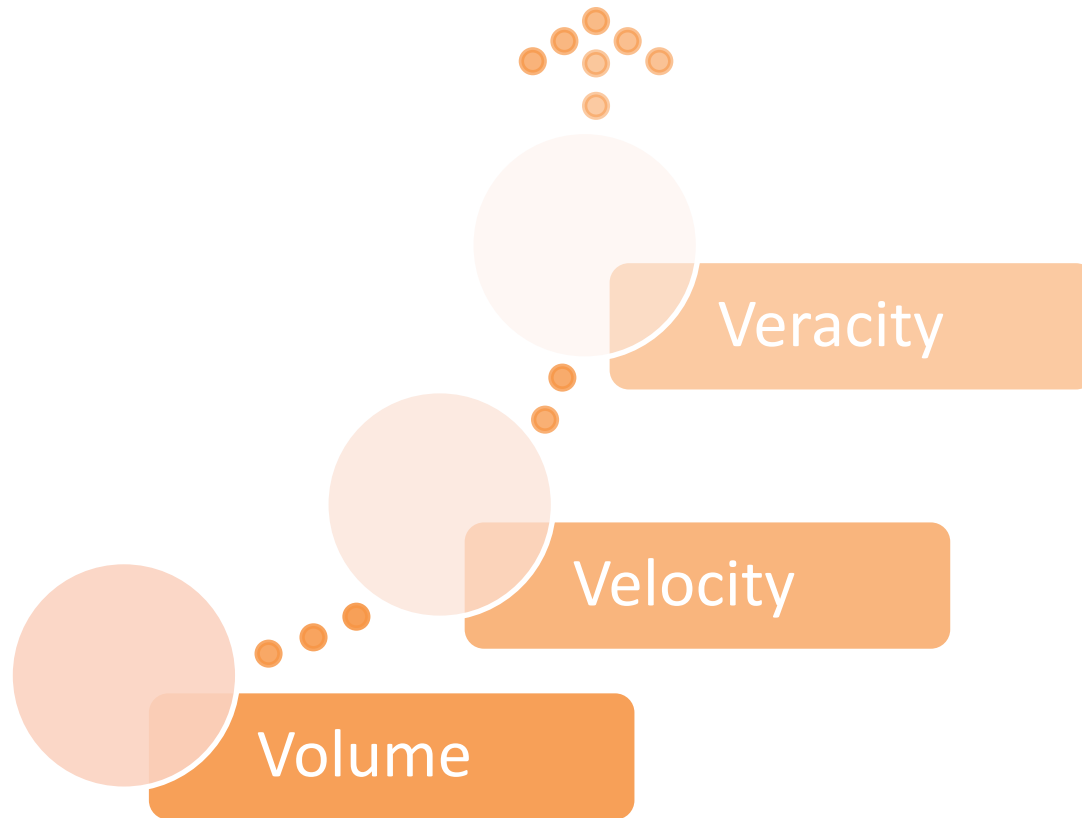


**Duration Latency**  
**Throughput Costs**

# Architecture of Data Analytics Service



## Challenges and Bottlenecks – Scaling Up



# Example: Amazon AWS Reference Architecture

## Ingest



## Store



Amazon RDS



Amazon Kinesis



Amazon DynamoDB



Amazon Elasticsearch Service



Amazon S3



Amazon Glacier

## Process



Amazon EMR



Amazon Machine Learning



Amazon Redshift



Amazon Kinesis Analytics



Amazon Lambda

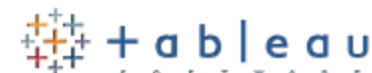


Amazon EC2

## Visualize



Amazon QuickSight



TIBCO Spotfire