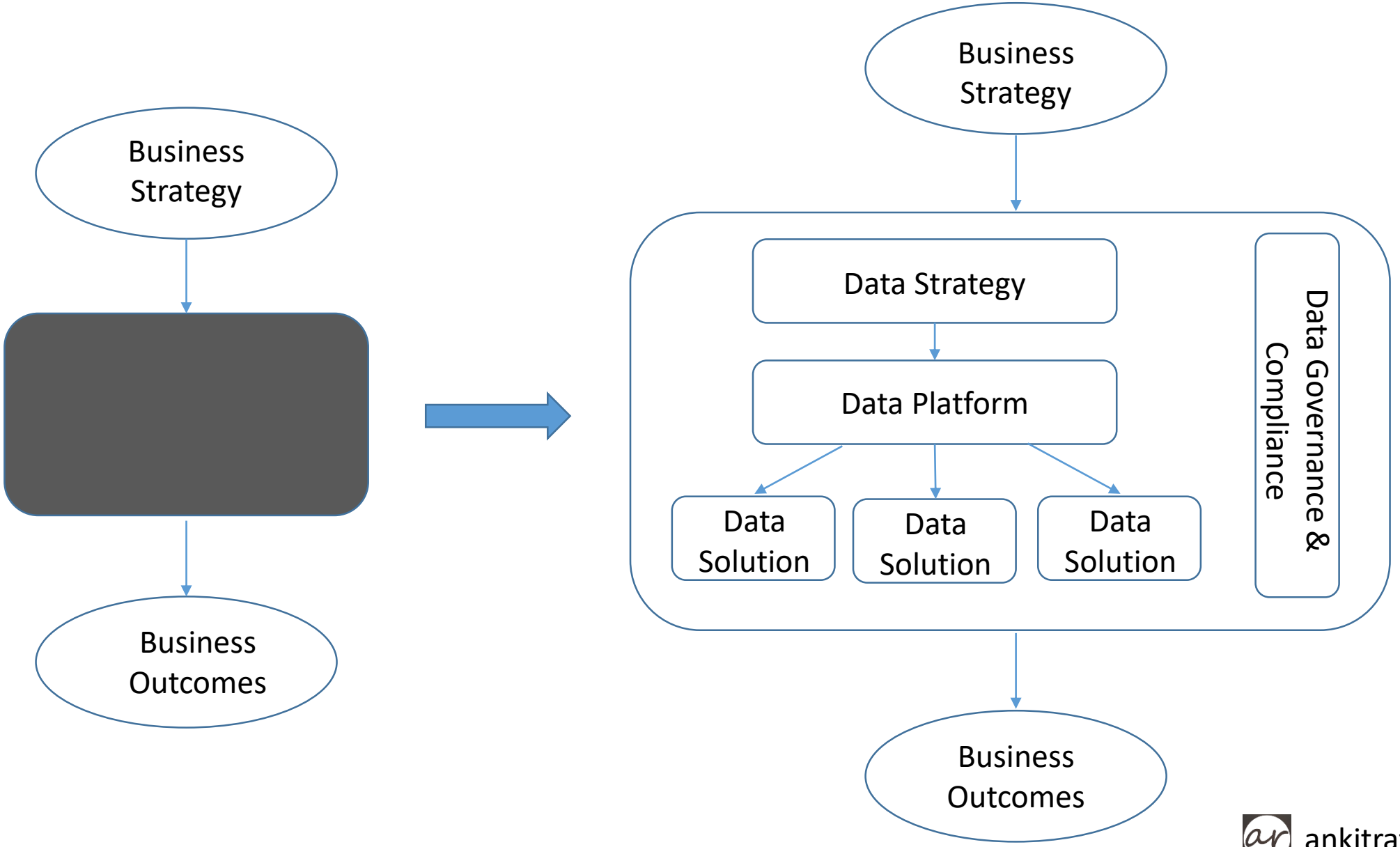
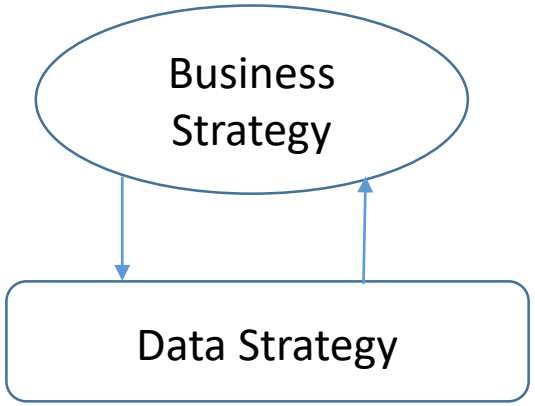
Building Data Analytics Ecosystem

Ankit Rathi

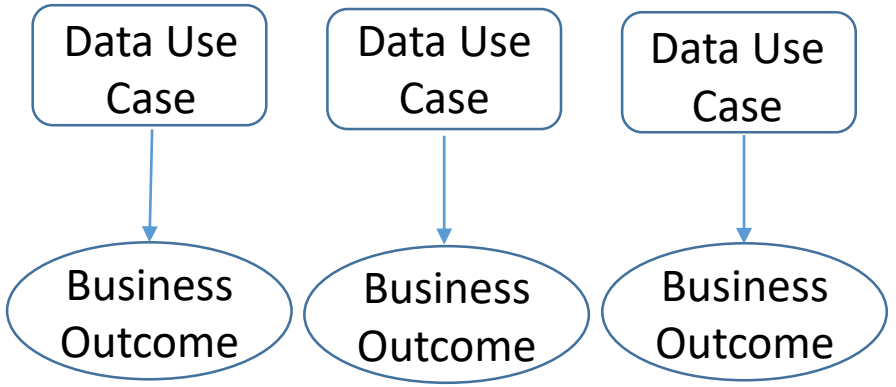
Business Strategy & Outcomes



Mapping Data with Business



Link with strategy



Map with outcomes

https://www.dataversity.net/data-strategy-vs-business-strategy/

Data Strategy & Roadmap

Business Goals & Strategy

Identifying business goals and objectives aligned to data

Current State Assessment

Understanding the current maturity and environment

Proposed Future State

Propose future state capabilities, processes, and org. Structure

Implementation Roadmap

Prioritizing use cases and identifying “quick wins.”

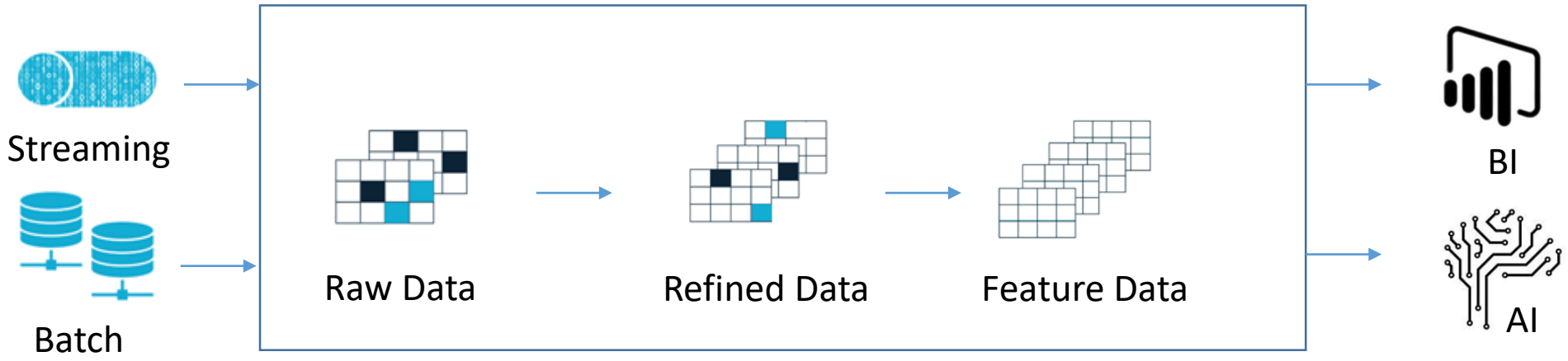
https://www.dataversity.net/developing-a-data-strategy-template/

Data Use Case Template

- Link to business goal
- Define problem/opportunity
- Define business KPIs
- Use case owner
- Users & data customers
- Required data
- Priority assessment

https://bernardmarr.com/default.asp?contentID=1837

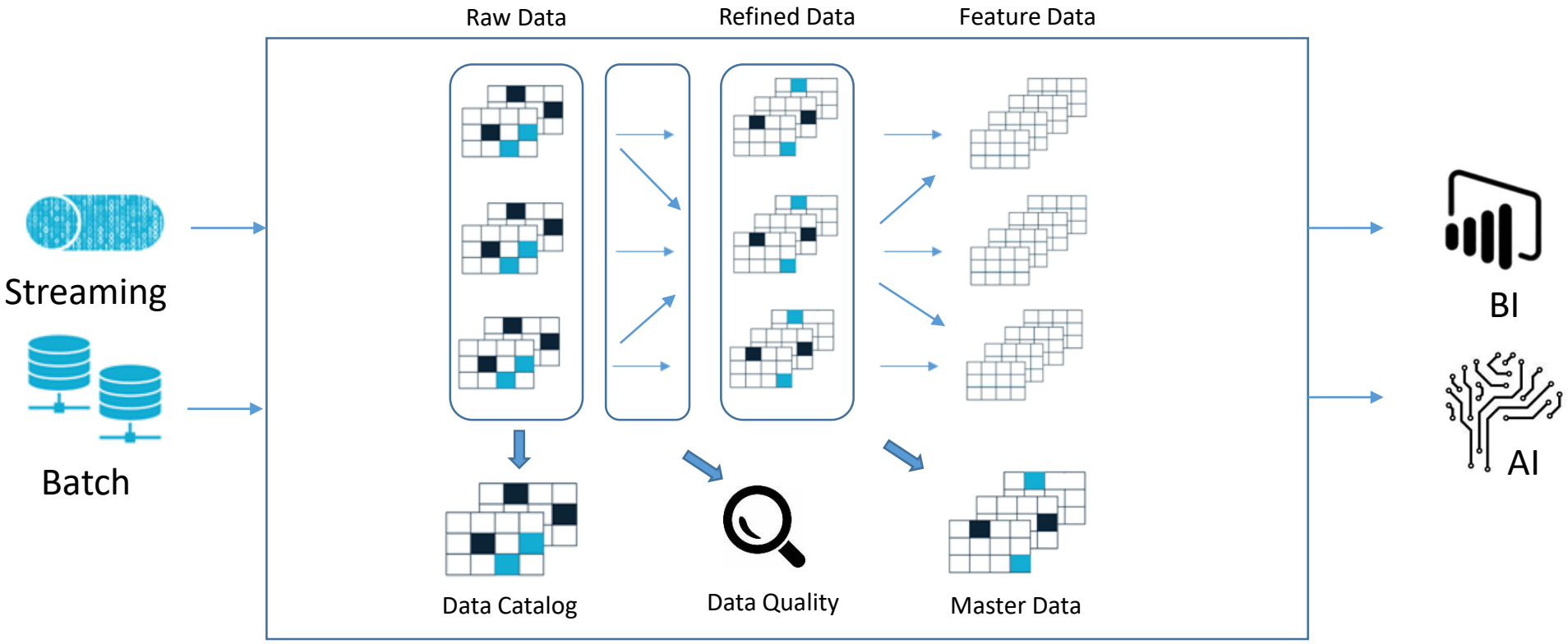
Typical Delta Lake*



*ACID compliant Data Lake

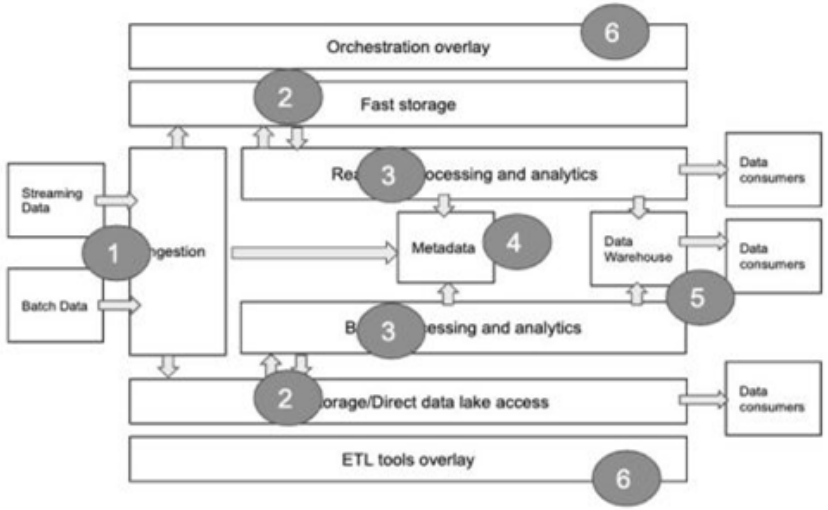
https://delta.io/

Infusing Agility to Data Governance

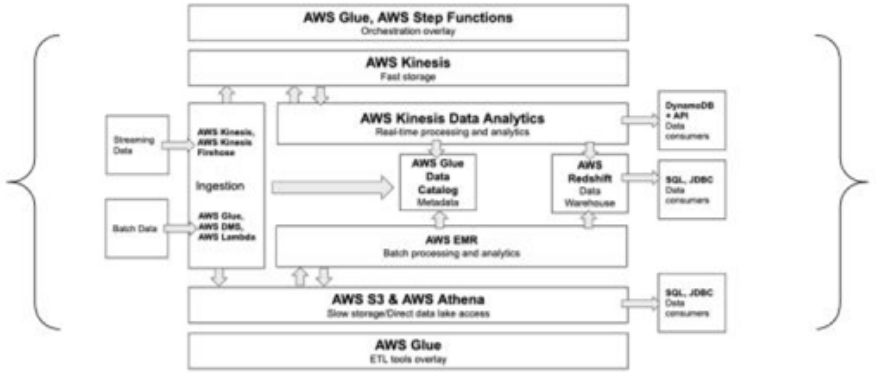


http://agiledata.org/essays/masterDataManagement.html

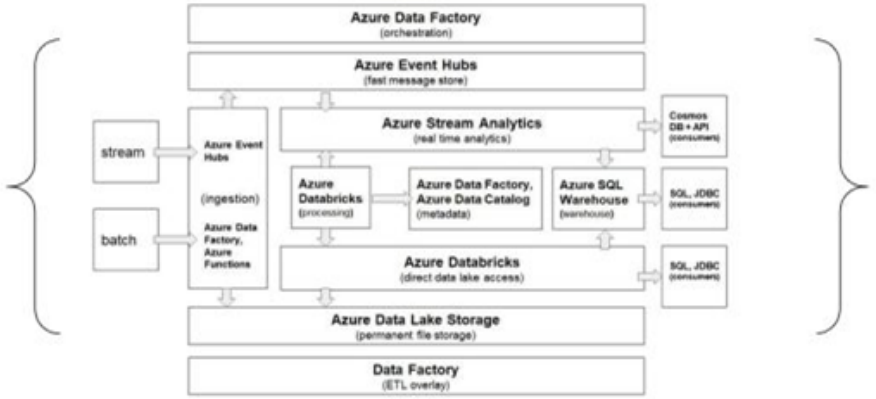
Data Platform – 6-Layered Architecture



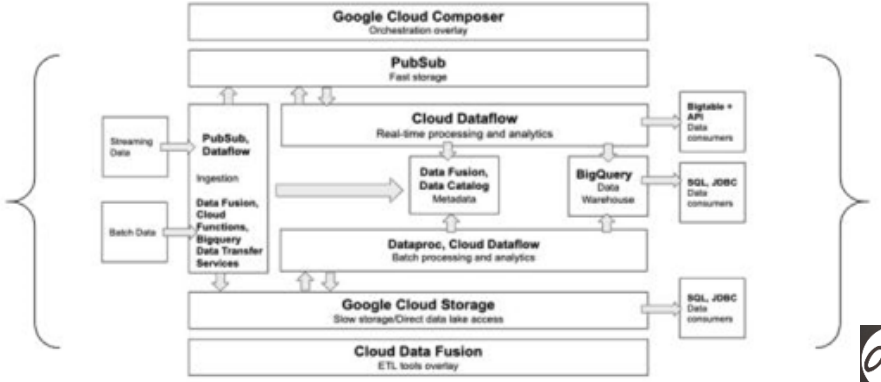
AWS



Azure



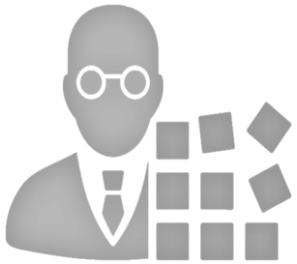
GCP



Data Platform – Roles*

Business Sponsor

Analytics Leader



Data Architect

Data Engineer

Data Scientist

Cloud Engineer

DevOps Engineer

BI Engineer

Other roles: QA Analyst & UX Engineer

* can be merged or split based on organization structure

Data Ecosystem – High Level Steps

1. Build & align data strategy with business strategy
2. Map data use-cases with business outcomes
3. Assess AS-IS, propose TO-BE & define roadmap
4. Prioritize use-cases based on ROI / Pick low-hanging fruits
5. Quickly validate with POCs
6. Develop, test & deploy
7. Infuse agile data governance
8. Automate, monitor & maintain

Questions?