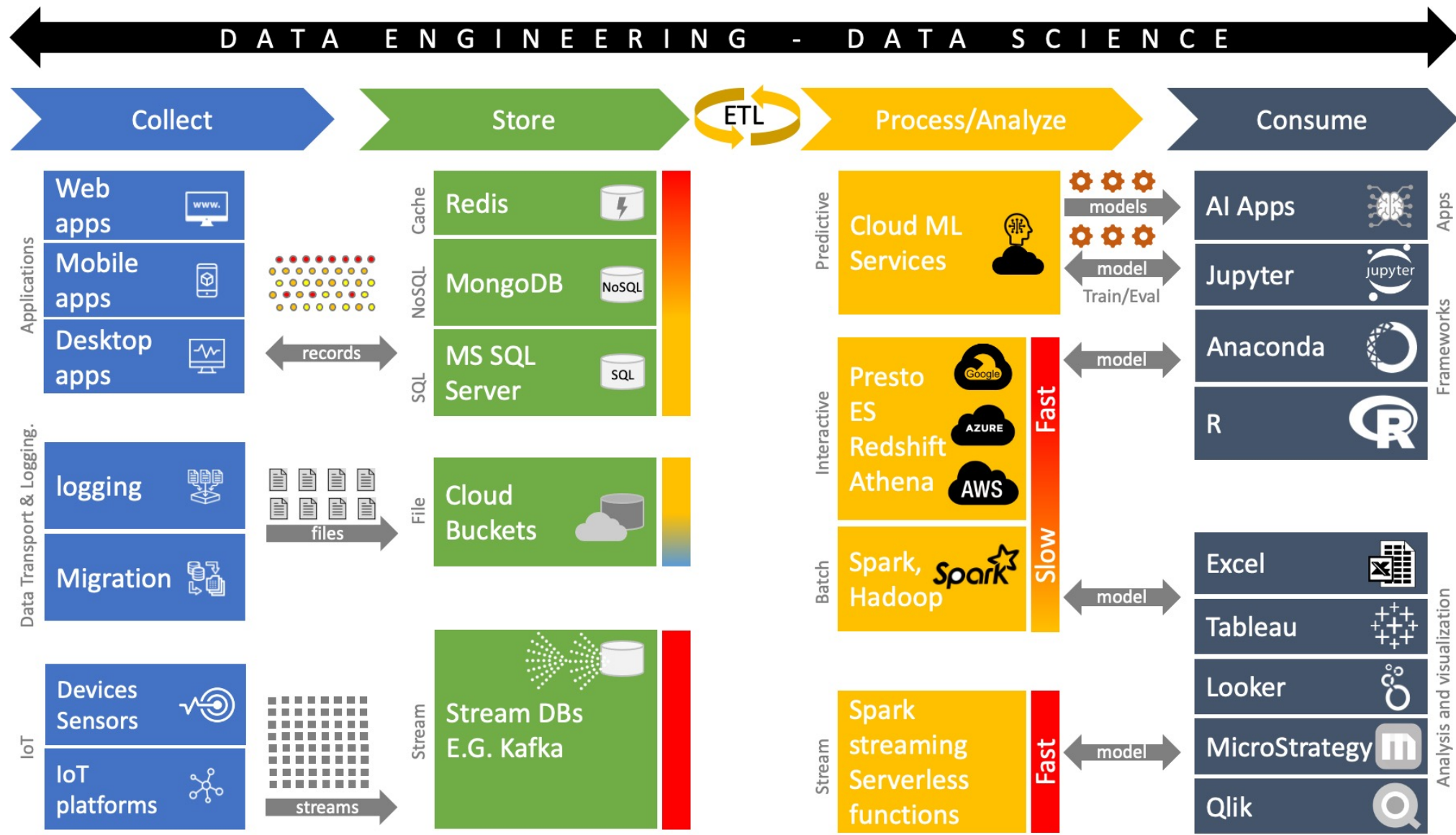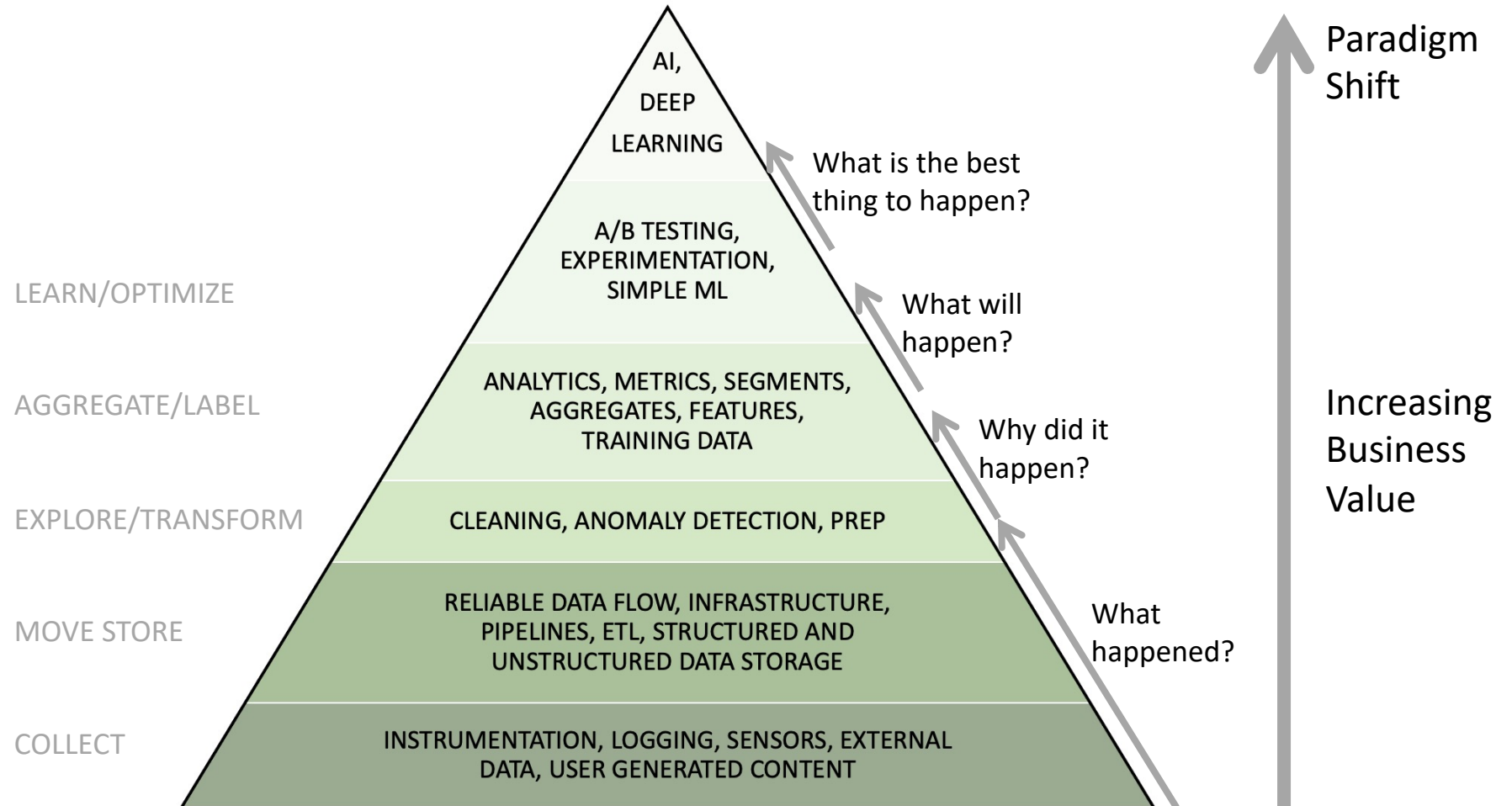# Data Leadership Course

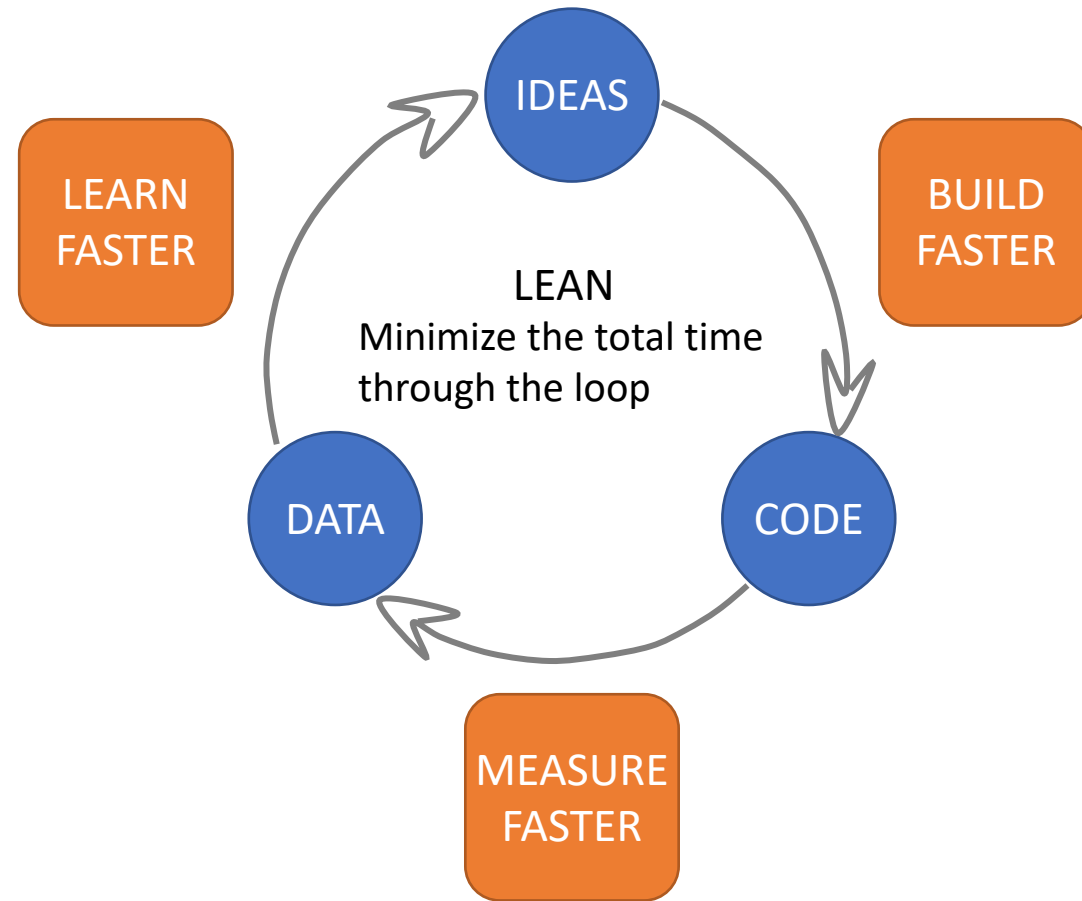Abel Sanchez, John R. Williams

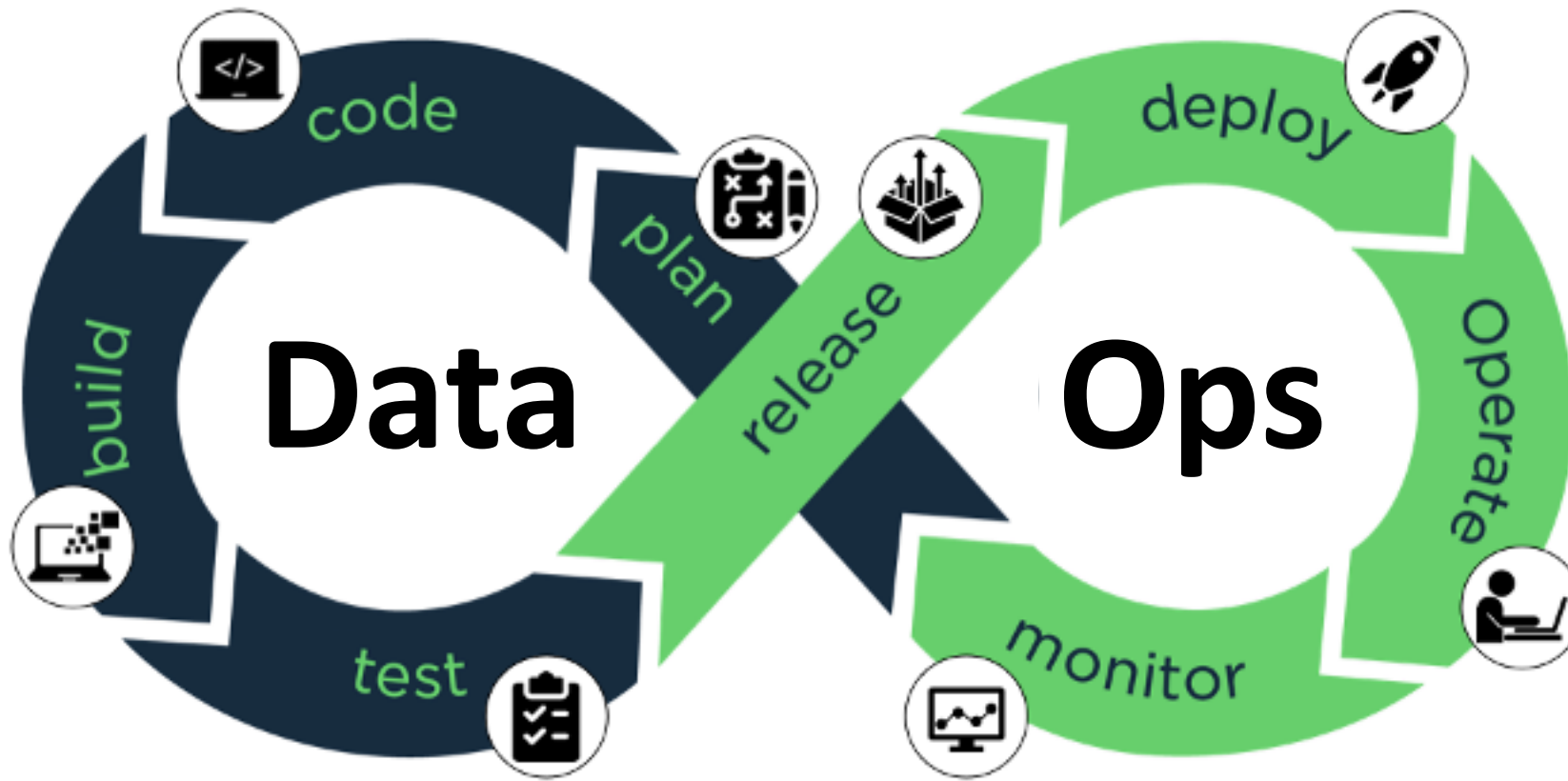# Data Landscape

Data hierarchy of needs

Six stages of data engineering maturity

- Stage 1: None
- Stage 2: Batch
- Stage 3: Realtime
- Stage 4: Integration
- Stage 5: Automation
- Stage 6: Decentralization

Leading Data Teams

Dev + Data + Ops

A few data titles – there is more

- **Data analyst** (concerned with analysis and representation of data).
- **ML engineer** (concerned with developing and optimizing machine learning algorithms).
- **Data architect** (concerned with managing and storing data).
- **Data scientist** (concerned with what insights data can offer).
- **Crowdsourcing engineer** - classify hundreds of thousands data source with a crowd
- **Data engineer** (concerned with building and maintaining data pipelines).