A live end-to-end demonstration of Microsoft Fabric Lakehouse

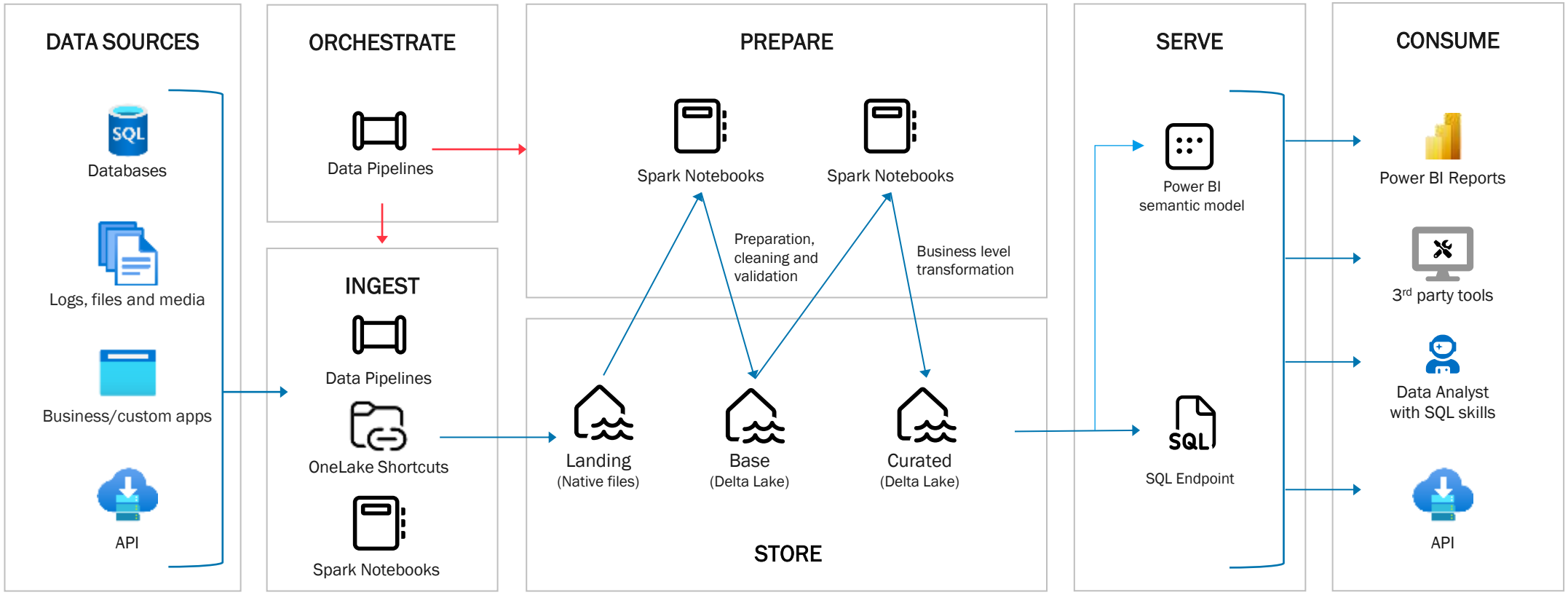
Just Blindbæk

Principal Architect and MVP, twoday, Denmark

Dataflow in a Data Lakehouse Architecture

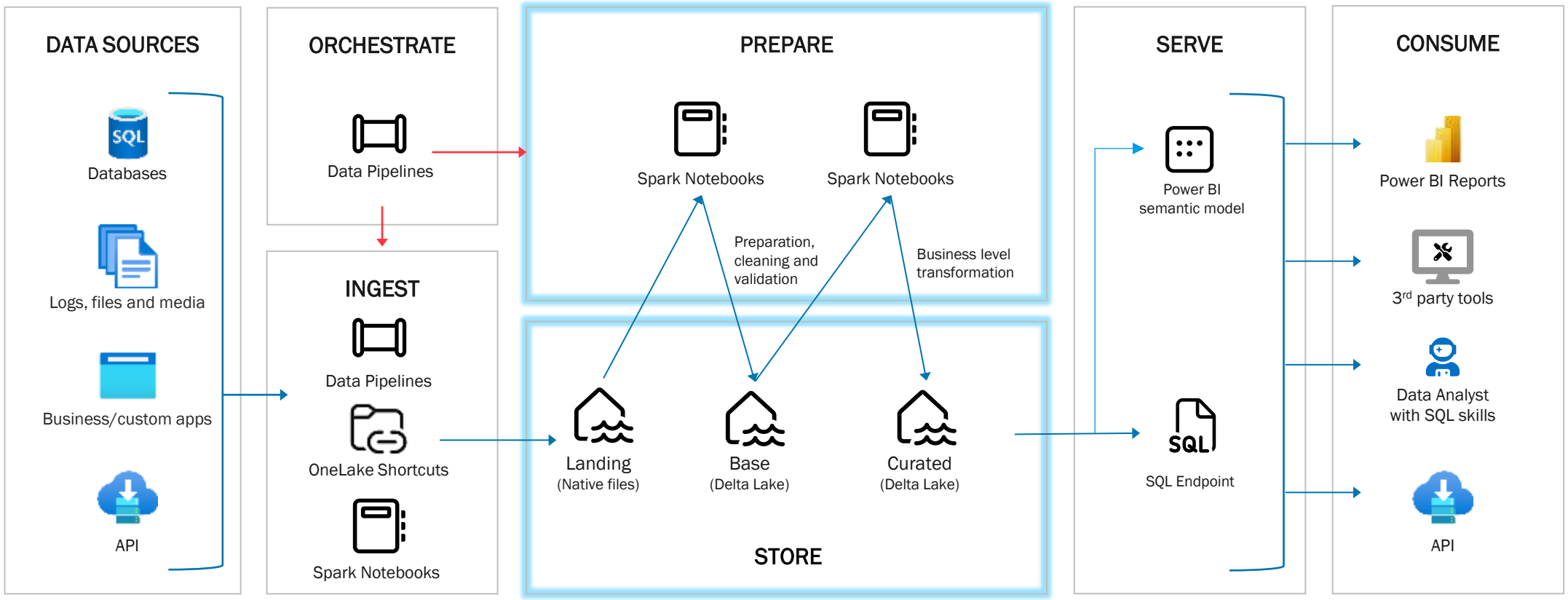
twoday

Dataflow in a Data Lakehouse Architecture



twoday

Dataflow in a Data Lakehouse Architecture



twoday

DEMO TIME

twoday

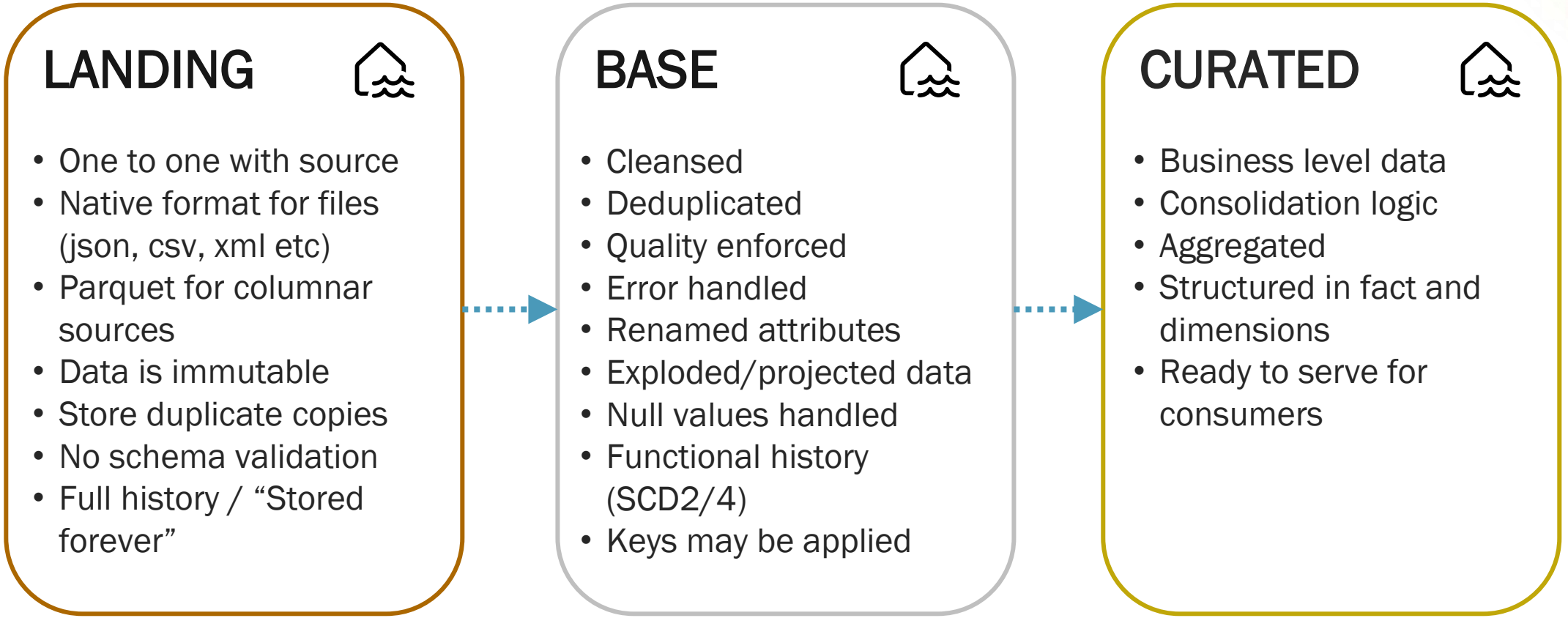
Accelerate Development using a Metadata-Driven Approach

- **Purpose:**
  - Accelerate Lakehouse platform development.
  - Ensure quality and robustness.
  - Simplify maintenance and operations.
- **Design Principles:**
  - Metadata-driven approach: Metadata in Azure SQL controls data ingestion and notebook processing.
  - Consistent naming standards: Uniform naming conventions across the platform.
  - Proven architectural decisions: Based on years of experience with data platforms.
- **Overview:**
  - Functions defined in AquaVilla_functions notebook.
  - Metadata sourced from an Azure SQL Database (or JSON/YAML), resulting in a unified structure.
- **Key Steps:**
  1. Define Source Systems & Objects: Configure load patterns.
  2. Define Processing Patterns: Streamline data movement.
  3. Define Orchestration: Automate workflows.

twoday

Layers in the Data Lakehouse

- The textbook example of a Data Lakehouse has three layers, where data is moved between.



twoday

Want to learn more?

- Come visit twoday in the Expo Hall
  - Experts to help and answer questions
  - Two daily live demos
  - Or a private demo?

- Article: https://www.kapacity.com/knowledge/from-ingest-to-insights-building-robust-data-lakehouses-with-microsoft-fabric

twoday


twoday
Where tomorrow is made