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Real-time Monitoring and Digital Twins

Monitoring & Alerts

Real Time, Sensor Based IoT Monitoring

- Noise, Vibration, Movement, Lighting, Hydration
- Hydration, Fatigue, Inattention
- Temperature, Machine Speed, RPM, Torque, Coolant Temperature
- Chemical Detection, Air Quality, C02
- Real-time data on Recent Hours Worked, Overtime/Sick Leave, Role Risk Rating, Years of Experience

Digital Twins

Real Time Visualisation & Scenario Modelling using Digital Twins

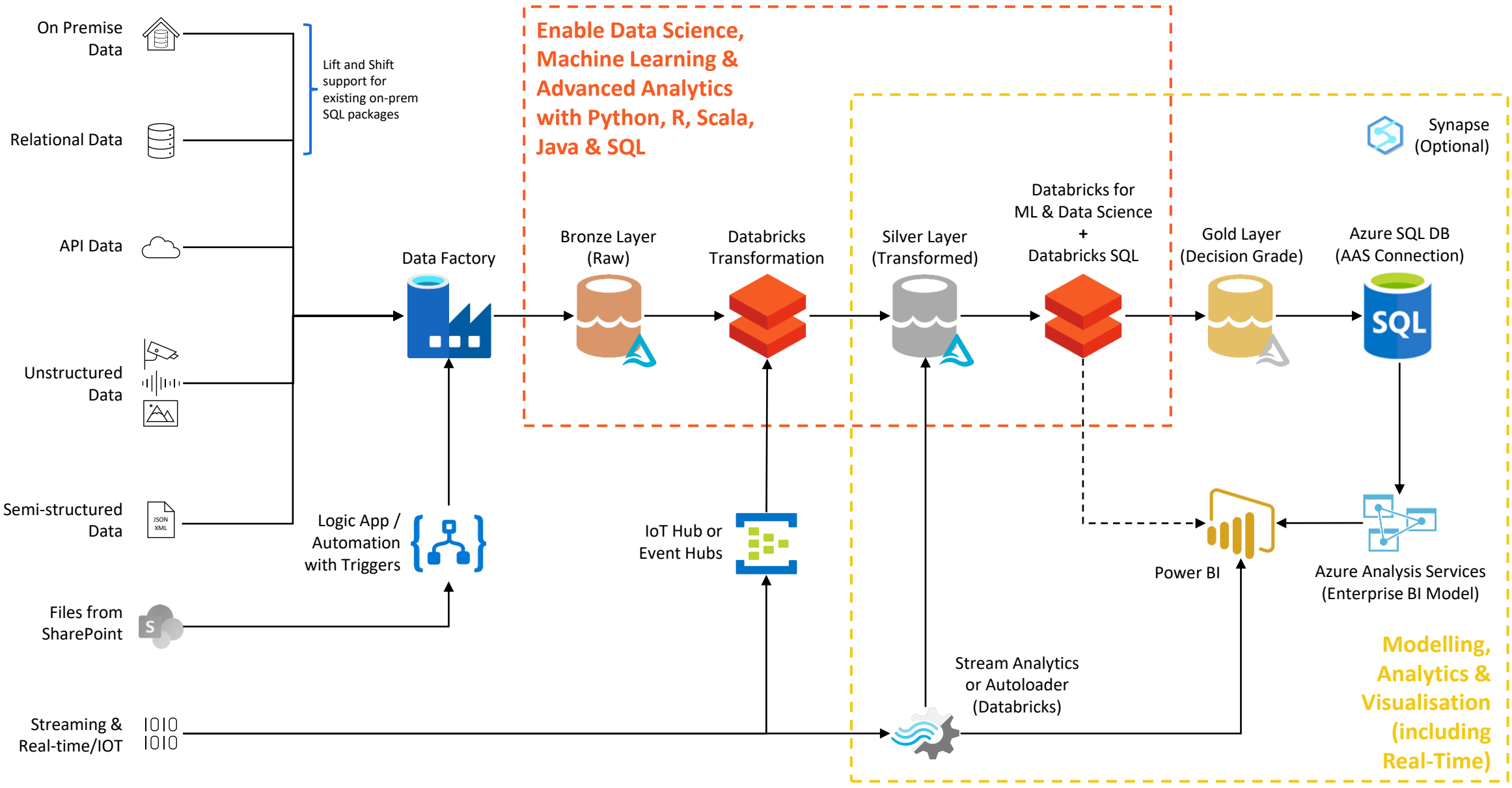
Digital Twin Maturity

- Centralise and Collect Data (SSOT).
- Reporting and Dashboards.
- Visualise Over Maps and Building Models (2D, 3D, Model).
- Real-time, 4D model to include real-time data from systems and telemetry (i.e. APIs and IoT).
- Feedback to/from systems and telemetry for decision support around operational efficiency.
- Complete Autonomous Operations and Maintenance.

Collect Data and Model Relationships between:

- Operations Costs
- People Data
- Resource Usage
- Maintenance
- Downtime Events
- Traffic Flow
- Command Centre Directions
- Environmental Telemetry, Sensors
  - Temperature
  - Input Speed
  - Power Input
  - Vibration
- Bottleneck Criteria
- Digital Signage
- Operating Limits

5-Day Data Lakehouse Implementation (Azure EBI)



Agile Delivery for Maximum Business Flexibility

Urgent Feedback and Removal of Blockers

Input from Client Team, SMEs, Executives and Stakeholders

Client Product Owner or Program Manager

Weekly Budget & Progress Status Reporting, Source Control, RAID Registers (Risks, Actions, Issues Decisions), Approvals Register, Peer Review Sign-Off and other Important Feedback

Daily Stand-up Meeting

- What was done in the last 24 hours?
- What will be done in the next 24 hours?
- Any issues and/or blockers?

2-3 Week Sprints

Sprint Reviews

Product Backlog

- Backlog Item 1
- Backlog Item 2
- Backlog Item 3
- Backlog Item 4
- Backlog Item 5
- Backlog Item 6
- Backlog Item 7
- Backlog Item 8
- Backlog Item 9
- Backlog Item 10

Delivery Team

Sprint Planning:
Commitment to Sprint Backlog from Prioritised Product Backlog

Sprint Backlog

- Backlog Item
- Backlog Item
- Backlog Item
- Backlog Item
- Backlog Item

Potentially Shippable Product Increment (Sprint Output)

Improvements, Defects, Bugs and New Ideas

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