The Opportunity

An Australian Mutual Bank (like many Mutual banks) had restricted access to their core banking data, this resulted in high touch and high-cost reporting for both internal and external requirements, a restricted view of 'the customer' and delayed reporting.

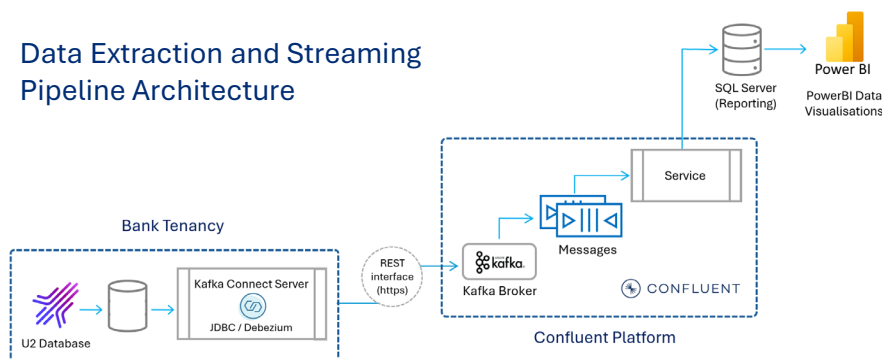This created delays in decision-making and impeded risk management.

Our Approach

As a Proof of Concept (PoC), Sida4 (as 4impact) developed a cloud-based data streaming pipeline using Apache Kafka delivered on Confluents (fully managed) cloud-based management platform.

The pipeline ingested the extracted core data, then normalised, cleansed and formatted before inserting into a data warehouse.

The PoC demonstrated that the solution could be executed in scalable and repeatable manner, fully capable of managing production data when required.

Data Extraction and Streaming Pipeline Architecture

Key Services utilised

- Software Development
- Project Management
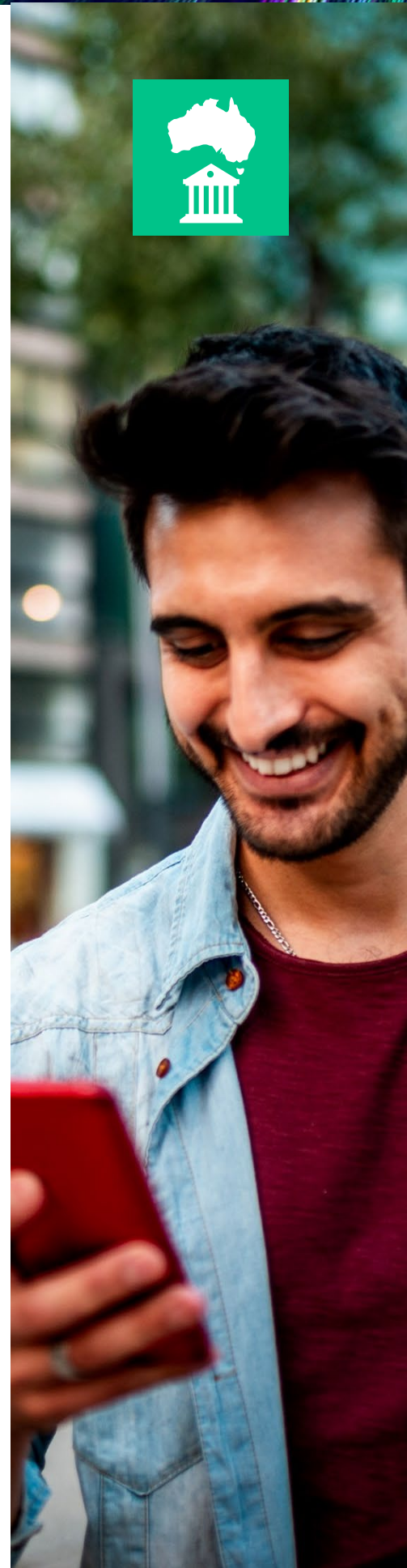- Business Analysis
- Data Analysis
- Testing

Key Technologies utilised

- Kafka event data streaming
- Confluent.io
- SQL Scripting
- SQL Server (RDBMS)

Key Toolkit

- Confluent managed Kafka cluster
- Self-managed Kafka connectors
- Kafka components implemented as Java applications
- SQL
- Jira
- Agile Methodology

NOTE: NOTE: This project was originally delivered under the 4impact brand and is now represented by their *data enablement and integration* focused sister company, Sida4.

Key Outcomes and deliverables:

Demonstrate how (closed) core banking data can be extracted, normalised and formatted was a key requirement of the PoC.

Once the (PII Obfuscated) data was at hand, the PoC moved into the implementation of a cloud-based Data Warehousing solution combined with Data visualisation and reporting Dashboards.

- Successfully implemented a cloud-based data streaming pipeline.
- Transformed 'closed' data into a data warehouse solution.

- Developed PowerBI dashboards and reports with previously inaccessible data.
- Established a repeatable process that can be easily extended for future data integrations and migrations.

Key project statistics and success insights.

REDUCED

DEMONSTRATED THE OPPORTUNITIES TO REDUCE MDM COSTS

SCALABLE

DEMONSTRATED THE REPEATABILITY OF THE MDM SOLUTION

ENHANCED

DEMONSTRATED ENHANCE DATA VALUE CREATION OPPORTUNITIES

RELIABLE

DEMONSTRATED A ROBUST MDM SOLUTION ENVIRONMENT

FUTURE PROOFED

DEMONSTRATED A SOLUTION FOR NOW AND FOR WHAT'S NEXT

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