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Case Study
Multinational operating in LA

Industry:

The data:

- Accessible.
- Coordination with IT.

Who has the pain?

- Innovation unit.

Previous attempts

- Yes, attempts with Microsoft support.

Data stack:

- Innovation unit.
- Azure, PowerApps.

Data Maturity

- Good access and governance.
- Interest in innovation.
- Code First: fledgling.

» The Challenge

Setup infrastructure

- An electricity production and delivery company adopted intelligent meters.

- The amount of data these meters generate overwhelmed existing systems, and they need to migrate 8TB of historical data and implement a new solution to allow growth of 3x more meters in the next two years.

The solution:

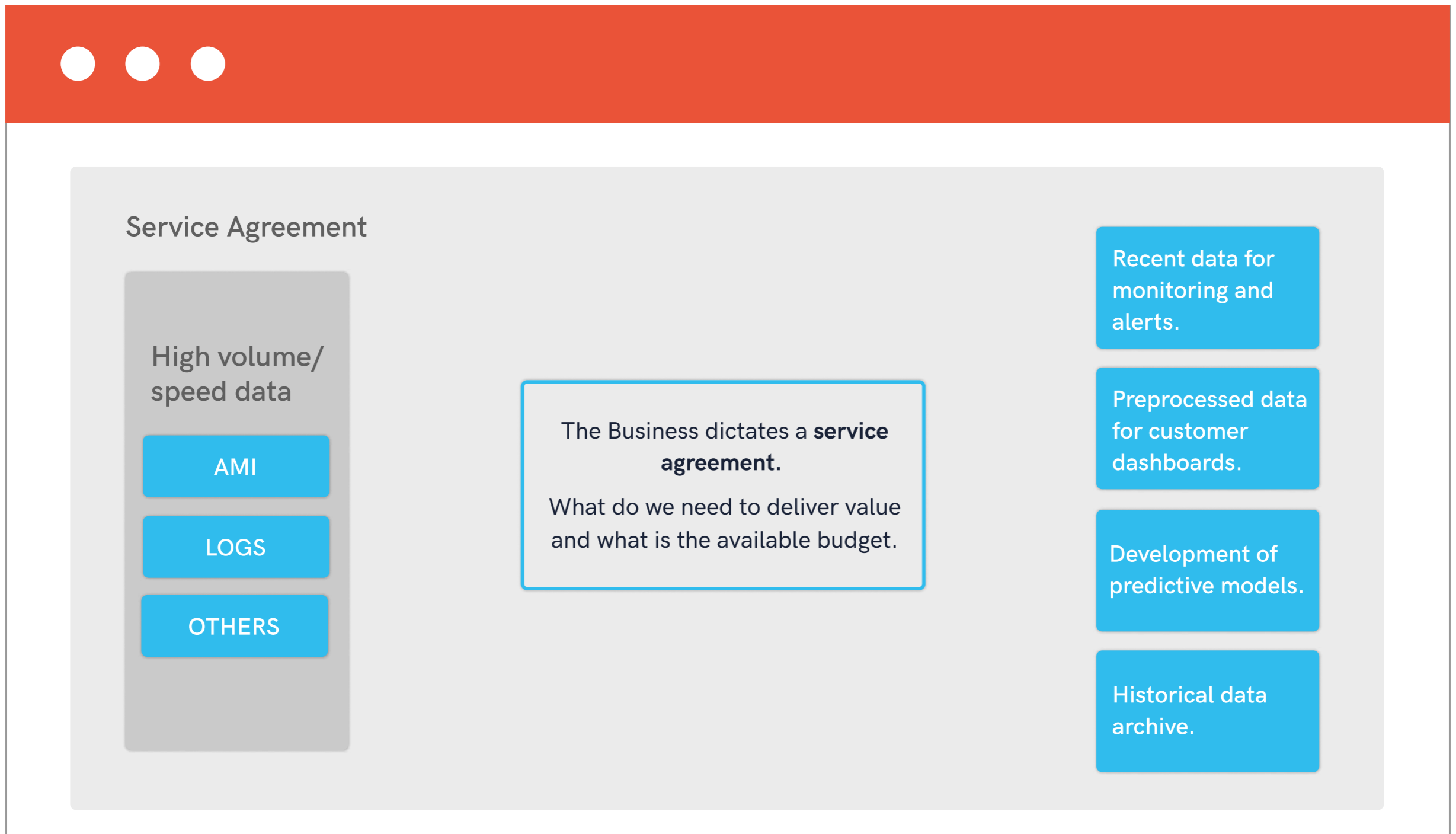Analysis and mapping of the current solution and architecture.

Support to talk to the business and translate needs into service objectives.

Architecture proposal for a data lake and data warehouse.

Implementation of the architecture.

Definition and implementation of custom deployment process (in code).

Recruitment and training support to create a new data engineering team.

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Service Agreement

High volume/ speed data

AMI

LOGS

OTHERS

The Business dictates a **service agreement**.

What do we need to deliver value and what is the available budget.

Recent data for monitoring and alerts.

Preprocessed data for customer dashboards.

Development of predictive models.

Historical data archive.

✅ **Metrics:**

- Costs of the solution.
- Skills to maintain and evolve the data lake.

- Skills to support and evolve the interface between the data science/data engineering group and the business.

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Service Agreement

High volume/ speed data

- AMI
- LOGS
- OTHERS

Grounded data

Immutable.

We only add.

Original format.

Automated access.

Long term storage.

Transient data

Transformations.

Data cleansing.

Data enrichment.

Volatile.

Automated access.

Curated data

Only clean data.

Limited Consumer.

Access.

Optimized access performance.

It is part of the data model.

Preprocessed data for customer dashboards.

Preprocessed data for customer dashboards.

Development of predictive models.

Historical data archive.

♡ Customer Benefits:

- A new process to understand and address business needs.
- A new architecture on Azure that can scale without limits.
- Implementation of a DevOps process for the execution of the project.

- Training and support of the data engineering team for the performance of the solution.
- Implementation of the first data pipelines to have a base on which to develop.

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