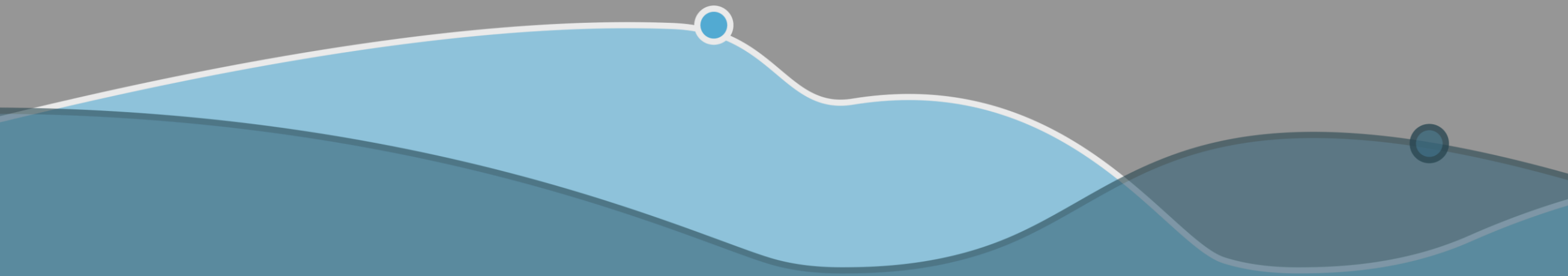




Cortana Analytics Workshop

Sept 10 – 11, 2015 • MSCC



Cortana Analytics for Revenue Forecasting

Gagan Bansal
Matt Conners



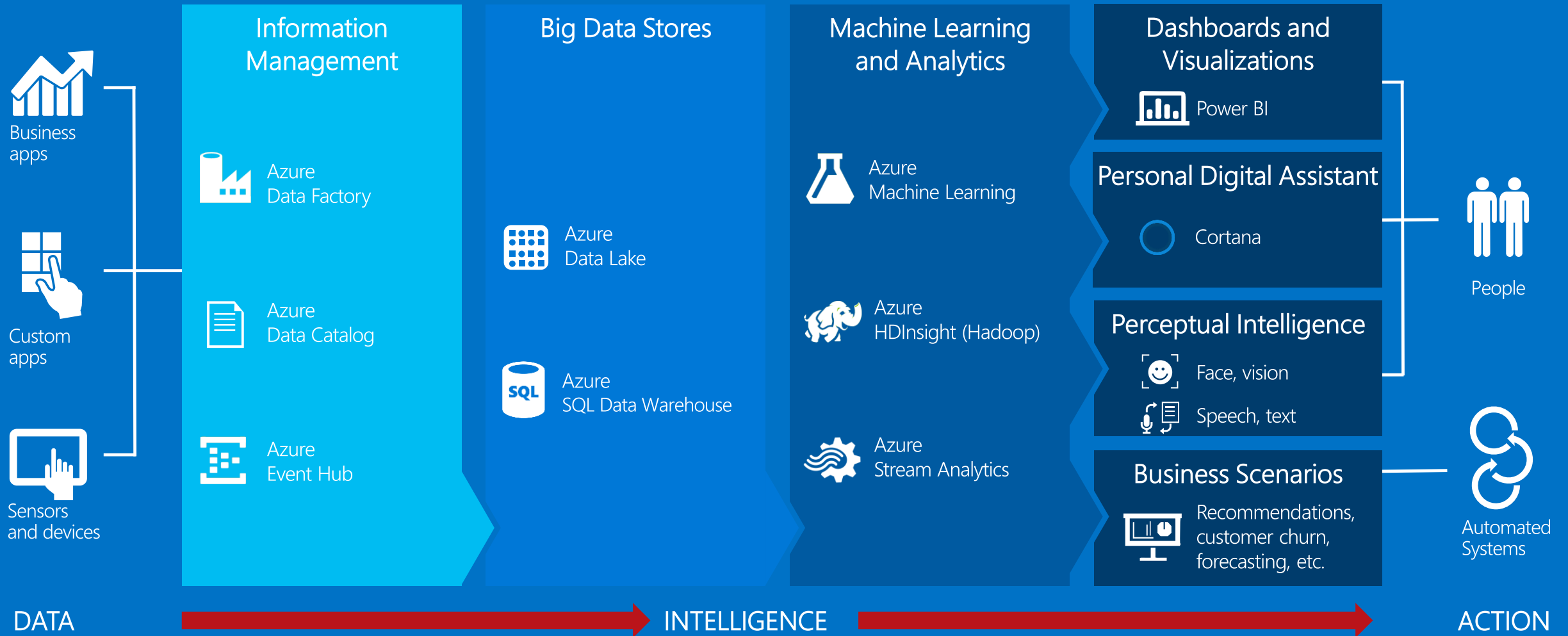
Agenda

- Perspectives from a Corporate Vice President and Treasurer
- Overview of Cortana Analytics Suite
- Machine Learning-based Revenue Forecasting
- Demo: Operationalization of Revenue Forecasting
- Cortana Analytics for Revenue Forecasting – Architecture
- Demo: Forecasting Financial Metrics for Dow Jones 30 companies
- Partner Demo: Integration with deFacto Planning

George Zinn,
Corporate Vice President and Treasurer,
Microsoft Treasury

Cortana Analytics Suite

Transform data into intelligent action



ML-Powered Revenue Forecasting at Microsoft

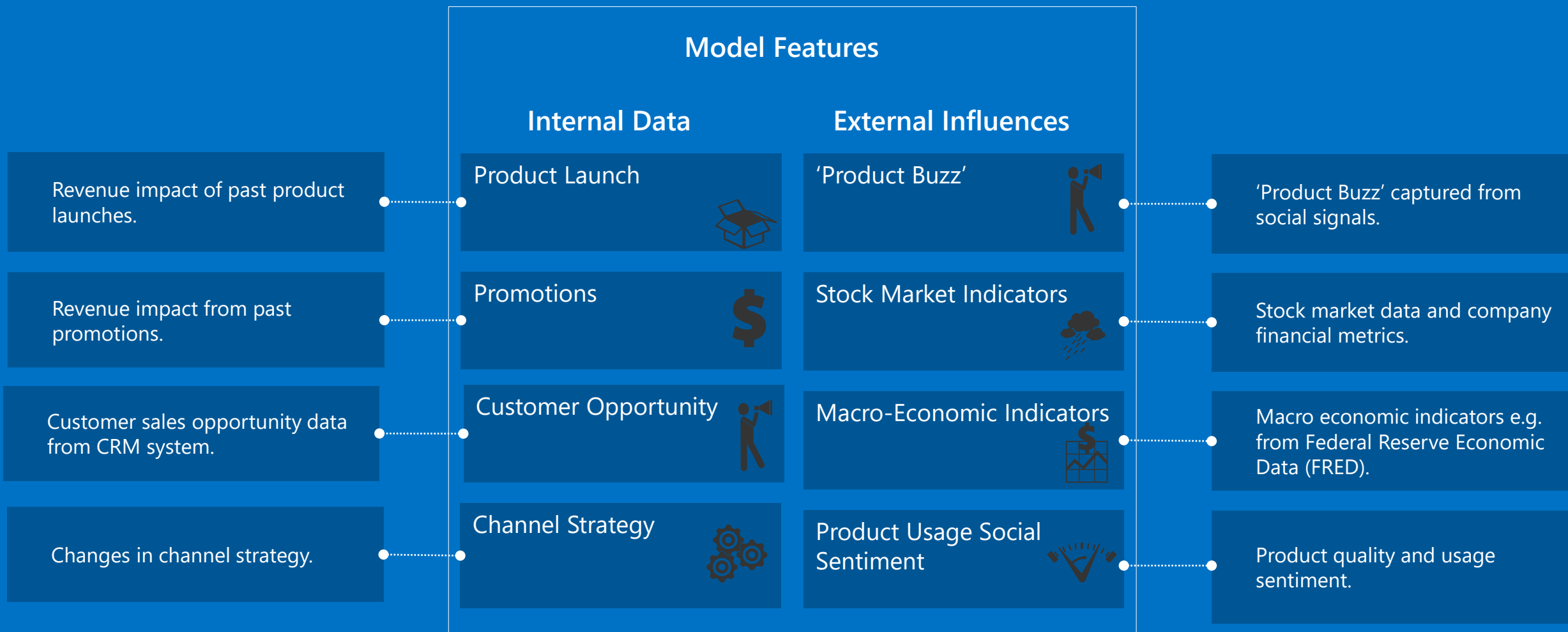
We use machine learning for forecasting revenue and other financial metrics in order to improve the Financial Planning & Budgeting process.

Forecast models use state-of-the-art algorithms combined with internal data and a variety of publicly available data sources.

Results:

- Improved forecast accuracy over existing judgement-based forecasts.
- Faster time-to-forecast than existing manual processes.

Vision for Revenue Forecasting at Microsoft



Forecasting Services Revenue

End-to-End Forecast Automation

Objective:

Forecast monthly WW sales revenue using sales opportunities (pipeline) features

Data:

- Target: monthly sales revenue
- Features: Lead pipeline or customer opportunity data derived from Dynamics CRM
Volume (\$) in full pipeline, or different stages of pipeline, Volume by deal size, Close rate in past months

Model:

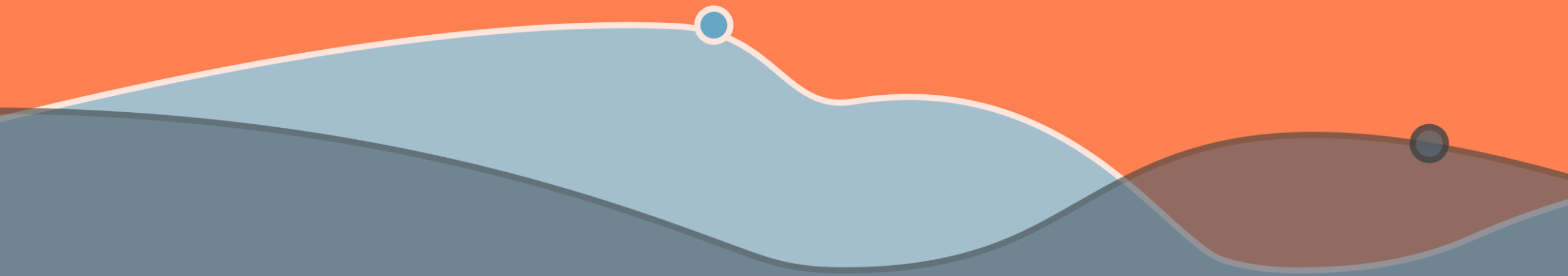
Elastic net in R, operationalized in AML and published as a web-service

Operationalization:

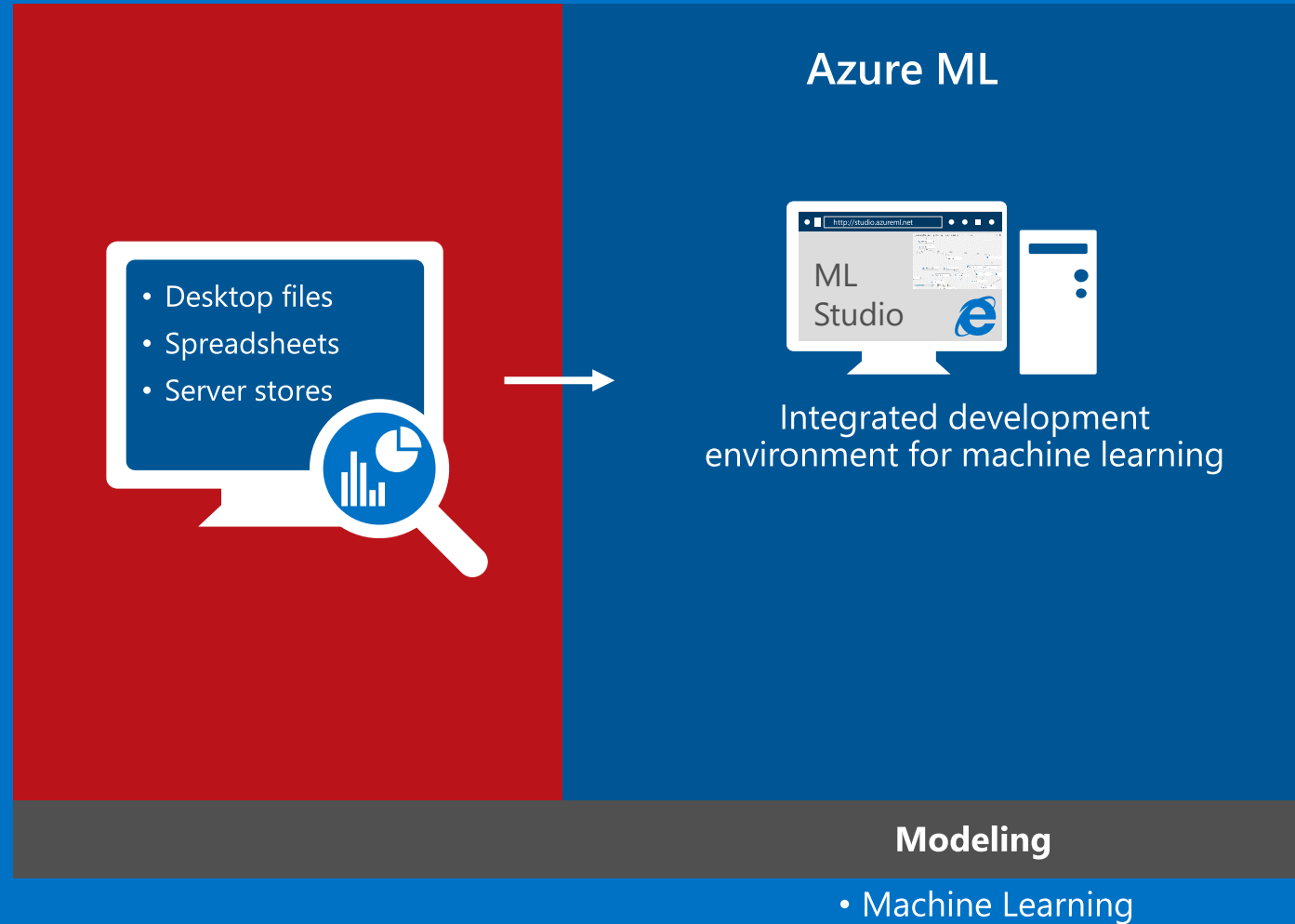
- Forecasts generated daily hands-off using Cortana Analytics Suite
- Data pull from on-prem, AML model scoring, summary and visualization in PowerBI, data push back to on-prem.

Demo

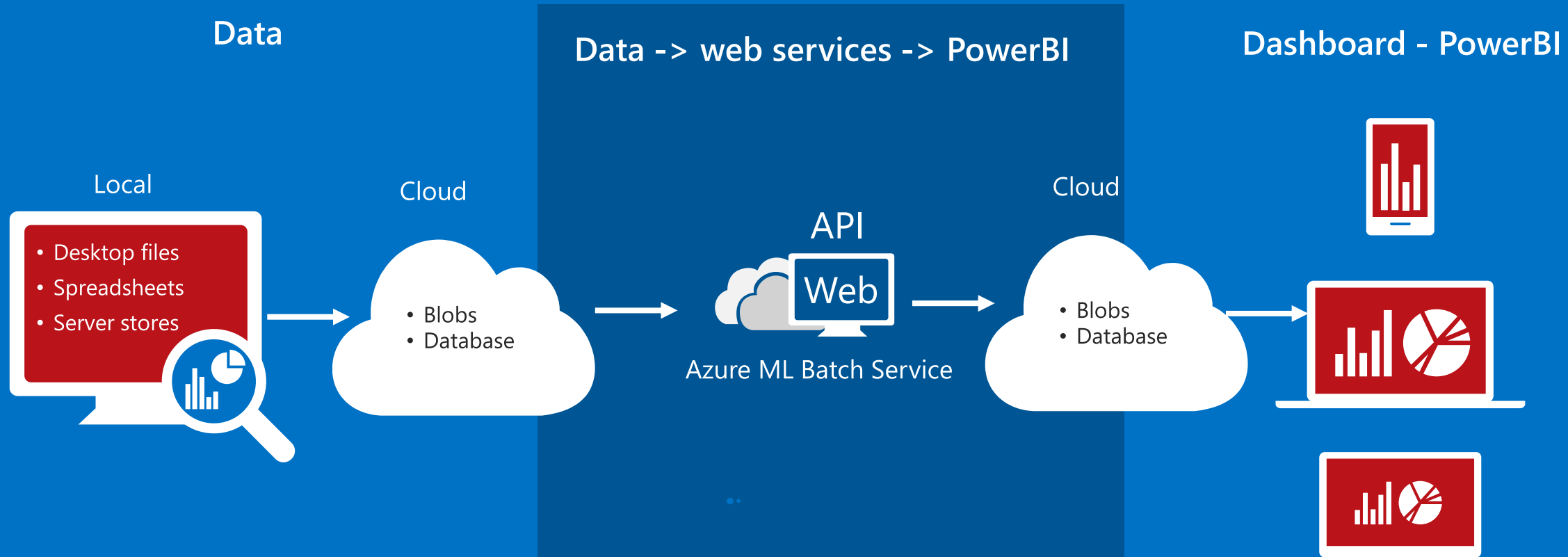
Forecasting Services Revenue



Revenue Forecasting – Training Models



Revenue Forecasting – Operationalized solution



Data preparation

- Data Factory

Modeling

- Machine Learning

Deployment

- Azure portal

Business value

- Power BI

Demo

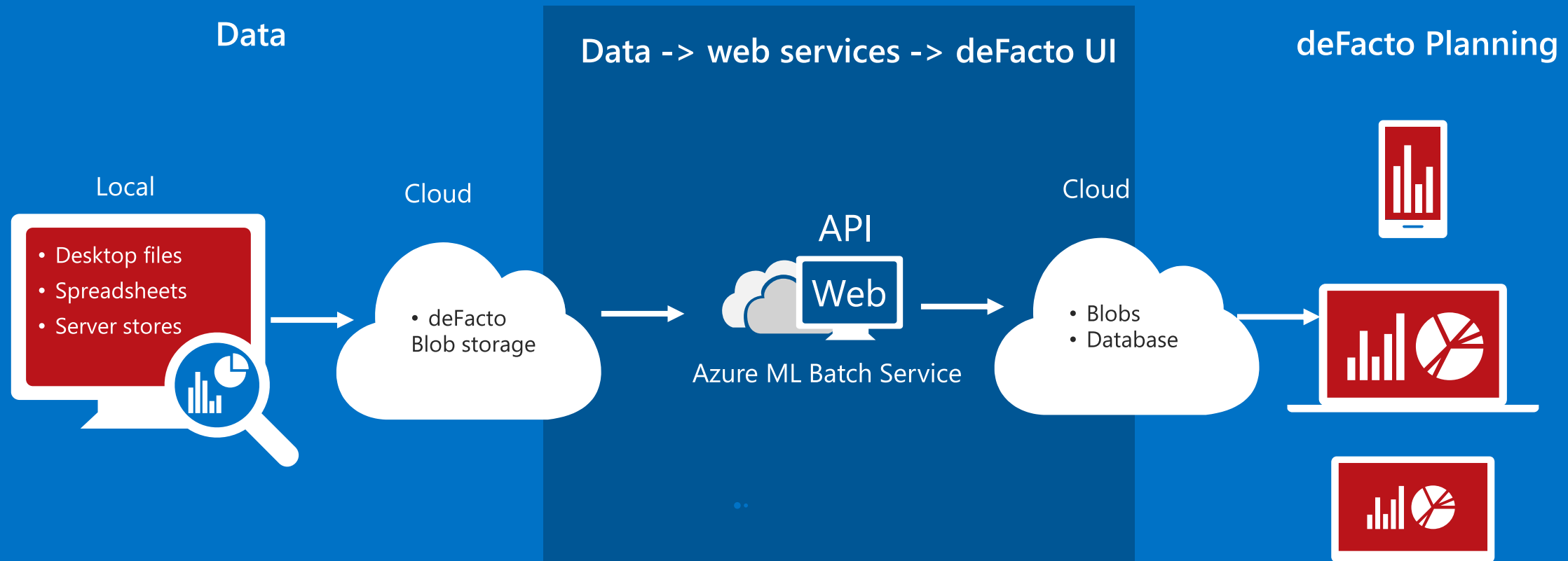
Forecasting financial metrics of Dow Jones 30 companies



POC: ML-based Forecasts Inside a Financial Planning ISV

Objective:

Integrated Azure Machine Learning-based forecasts inside deFacto Planning software



Data preparation

• Data Factory

Modeling

• Machine Learning

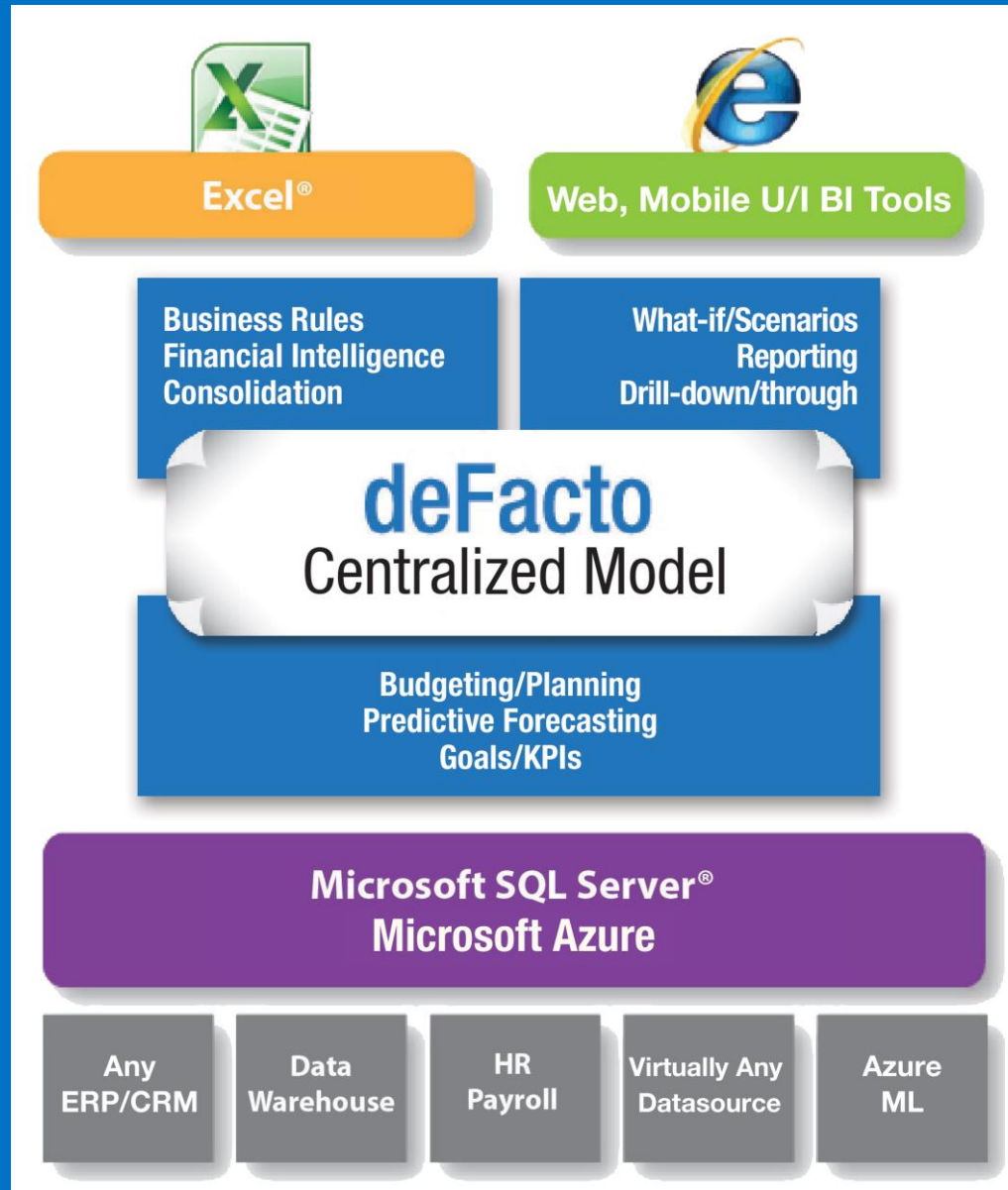
Deployment

• Azure portal

Business value

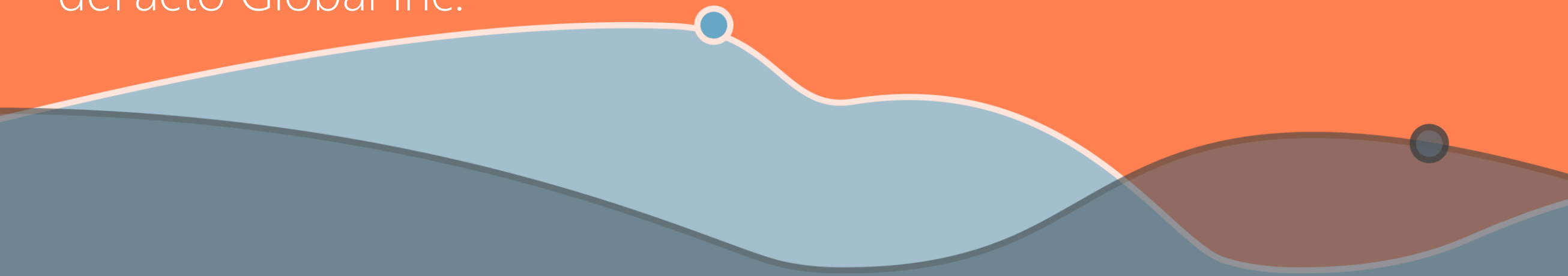
• deFacto Planning

deFacto Planning Architecture



Demo – deFacto Planning

Anthony D'Anna, Chief Operating Officer
deFacto Global Inc.



Q & A

