### Dynamics 365 Meets Azure

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#### Who am I?



- Business tech guy who gets excited about (almost) everything
- Also CEO and founder of Vaaja Consulting
- Could figure out what to study and studied everything (still in progress)



- Growing consulting company of ~ 10 people
- ► Founded in 2022
- All things Microsoft, trying not to limit ourselves

## I'm not an Azure architect.. so, how do I make use of cloud stuff?

#### In this presentation..

- Being a Dynamics 365 specialist, how has Azure helped and made my job easier?
- What added value does Azure bring to Dynamics?
- Conversely, how can you, as an Azure expert, help ERP/ CRM projects and teams succeed?

### What's Dynamics 365 (or D365) anyways?

#### Everyone knows Azure, but a quick recap: what is D365?

- From Microsoft: "Dynamics 365 as a suite of intelligent business applications that combine CRM and ERP capabilities"
- In real life: tools to help Sales, Customer Service, Enterprise Resource Planning (ERP) big and small
- Importance of Cloud Technology:
  - ▶ Biz apps are old-fashioned compared to other tech
  - ▶ Only in recent years has SaaS, for example, started to become mainstream in the area of enterprise resource planning

# Historical burden in old school business applications

- Usually biz app and cloud teams are located in different org units (Yei! Silos! Who's in?)
  - ► Cloud developers come from software engineering and IT training programs
  - ▶ ERP experts come from finance and business operations
- ▶ In ERP/CRM projects, people often try to solve issues with ERP/CRM tools
  - ► Law of the instrument
- Previously, D365 project was an exercise for finance, business and a "couple" of consultants
  - Nowadays more of an Azure project on the tech side

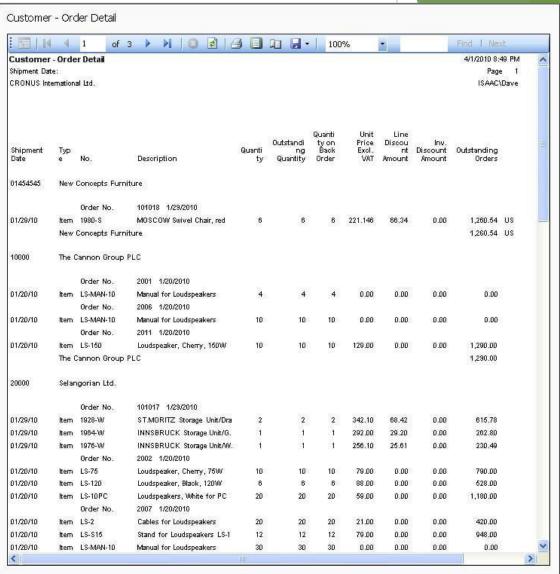
### Okay, let's move to real life examples

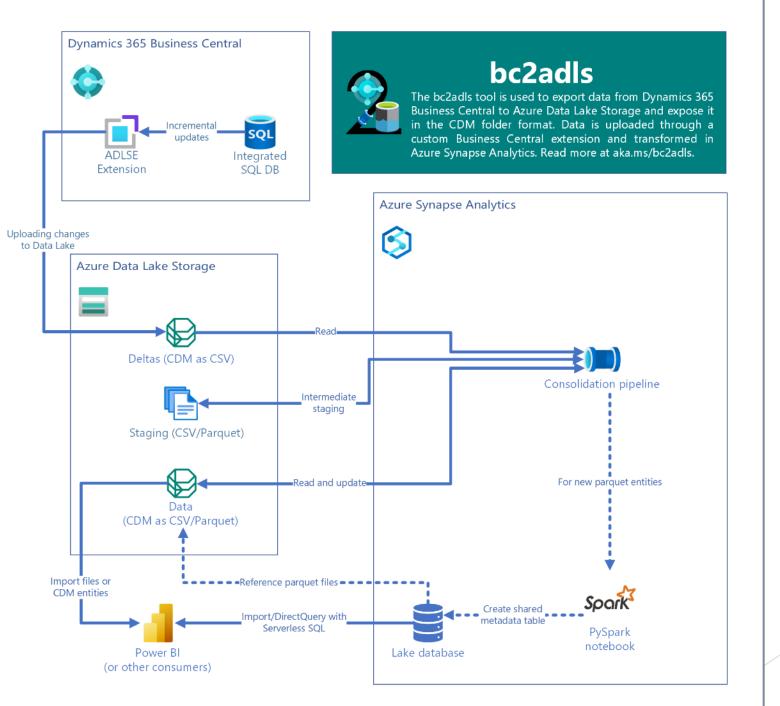
- Some examples on what we've done and what's possible
- Some things just work better in Azure (Surprise!)
  - ▶ Reporting, storage, resource intensive tasks...

### Reporting brought back to 21<sup>st</sup> century with Azure

Reporting in traditional ERP



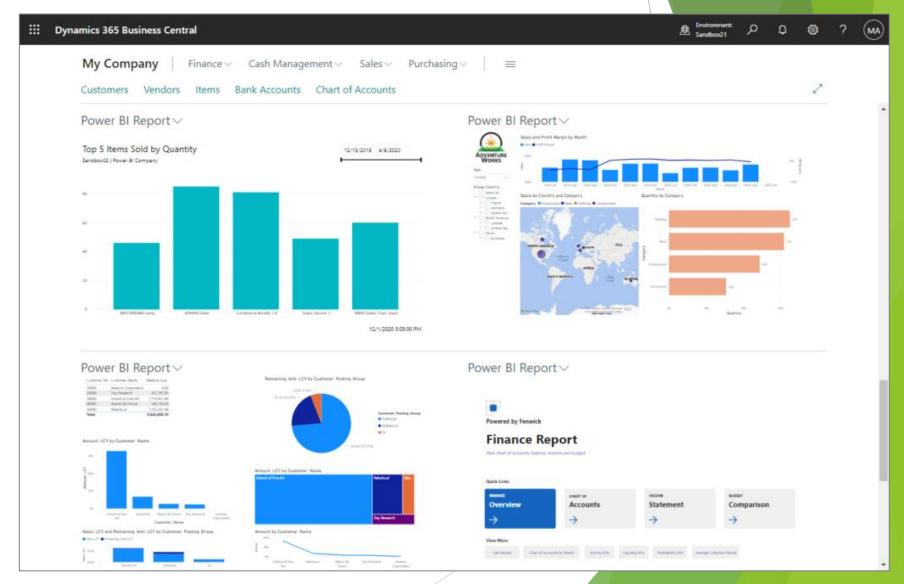






Reporting brought back to 21st century

with Azure



### Who likes storage?

Data storage prices pay- as-you-go	Premium	Hot	Cool
First 50 terabyte (TB) / month	<b>\$0.15</b> per GB	<b>\$0.018</b> per GB	<b>\$0.01</b> per GB
Next 450 TB / month	<b>\$0.15</b> per GB	<b>\$0.0173</b> per GB	<b>\$0.01</b> per GB
Over 500 TB / month	<b>\$0.15</b> per GB	<b>\$0.0166</b> per GB	\$0.01 per How

Blob storage prices in Azure...

..and in SaaS D365 solution (for example)

er	How much is Dynamics 365 Business Central database capacity?			
Ī	Additional capacity:			
	Business Central Additional Environment	\$300 (per tenant/month)		
	Business Central Database Capacity	\$10 (per tenant/month)		
	Business Central Database Capacity 100GB	\$500 (per tenant/month)		
	Business Central Database Capacity Overage	\$5 (per tenant/month)		

Easy for consultant to justify their hourly fee if capacity need can be reduced

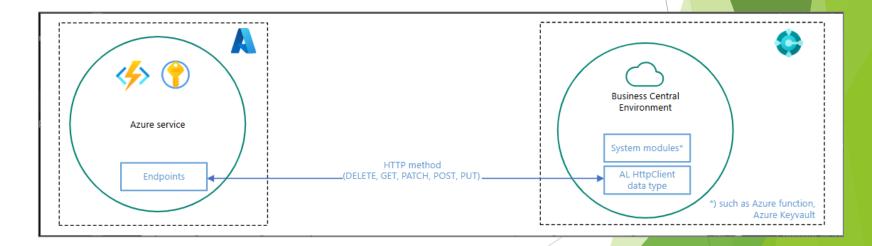
### Better way to run resource intensive tasks

- ▶ Biz apps contain a lot of validation, since same data is used in various business domains (finance, warehouse, purchasing, manufacturing etc.)
  - ► Good with business rules, not so performant
- Parsing data from imports not usually the best idea in ERP's/CRM's
- Over night tight schedules to run daily scheduled data operations
- Azure Functions to replace old DLL's or custom libraries in SaaS env

## Better way to run resource intensive tasks

The new module contains three (public) codeunits.

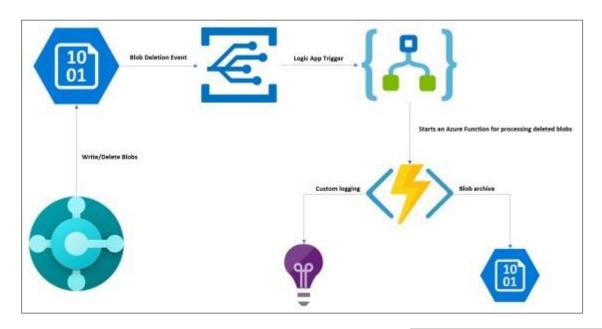
- Azure Functions (codeunit 7804)
- Azure Functions Authentication (codeunit 7800)
- Azure Functions Response (codeunit 7805)

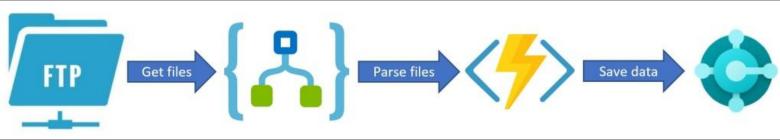


### Modern integrations and workflows

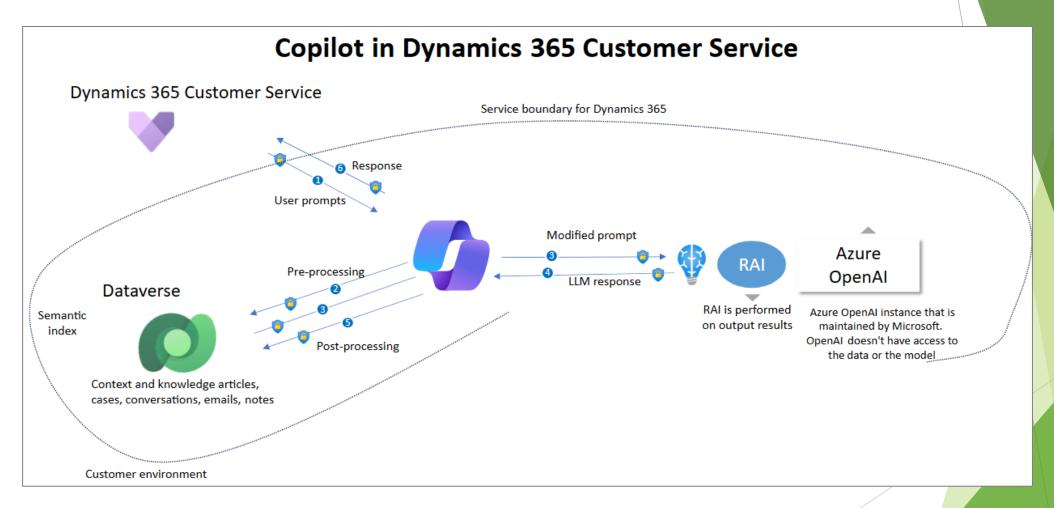
- Azure Logic Apps (and Power Automate) can automate processes and integrate
  Dynamics 365 with other enterprise systems and third-party applications
- Previously, a bunch of file-based transfers (because of legacy, burden of accounting and finance)
- ▶ Why develop custom when one can use WYSIWYG in cloud?

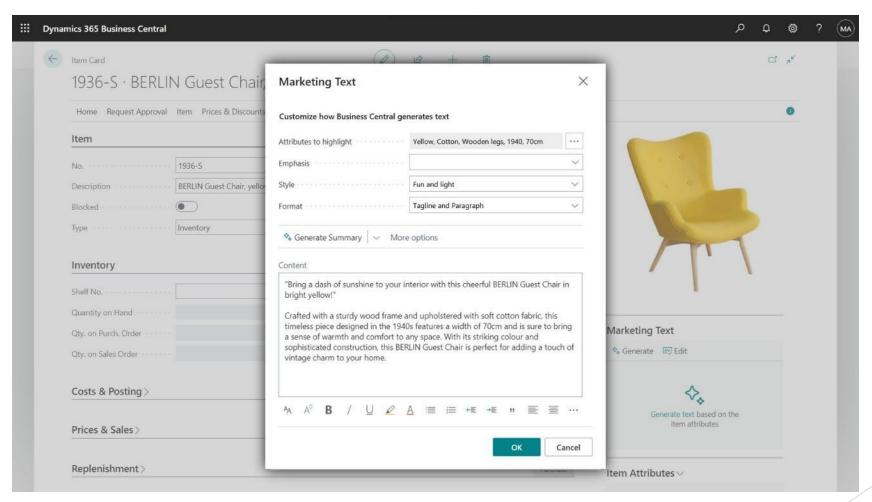
### Modern integrations and workflows

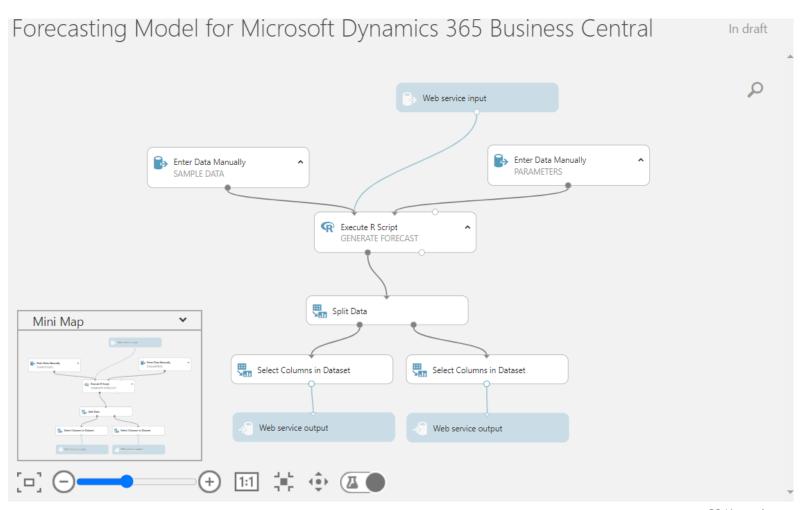




- Azure AI integrates into Dynamics 365, enabling businesses to use predictive analytics, automation, and intelligent insights
  - Like, a few years back this meant linear regression (which is boring)
- However, now Azure's AI tools used to predict, for example, shopping patterns, enabling personalized marketing campaigns and inventory optimization
- Copilot integrated into products, specific Copilot SDK's published for devs
  - Some stuff still in Preview, though







#### In short...

- ▶ As an Azure expert, if you ever see an ERP/CRM person..
- ..go and ask how you could help them
- ▶ They will appreciate it, even if you might not believe it at first

### Questions, yes?

Open the floor for any questions from the audience