

The Ultimate Education Destination ORLANDO 2023

## CCW04: The Fin-tastic Way to Boost Your Cloud ROI

René van Osnabrugge Xebia Xpirit

Level: Intermediate















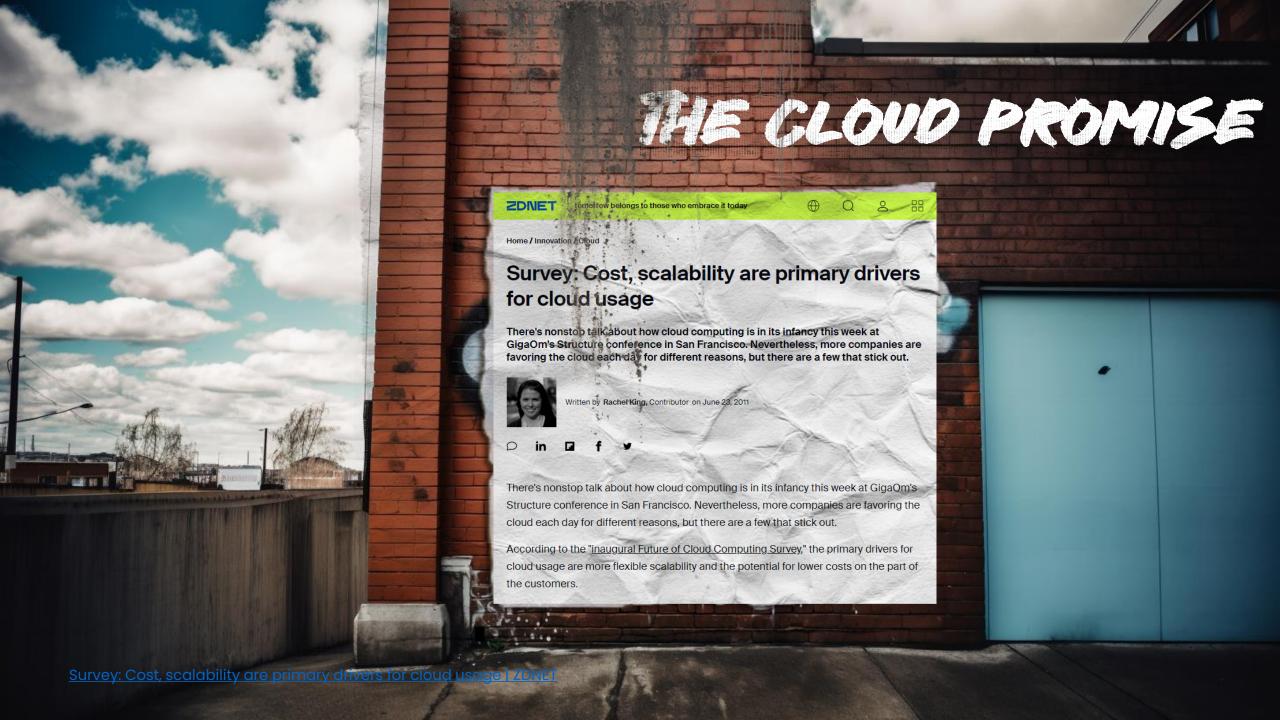




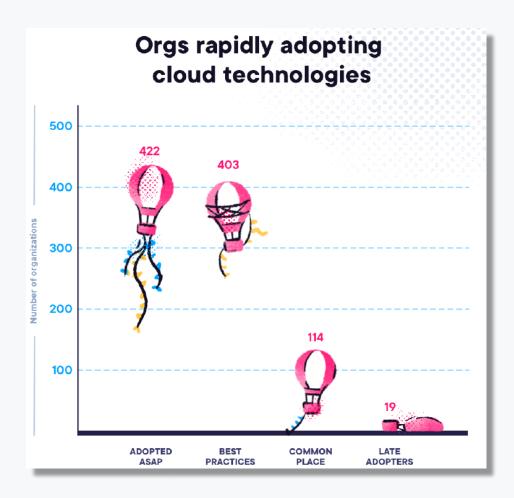
# THE SAME MODEL THAT BROUGHT FREEDOM REMOVED CONTROL







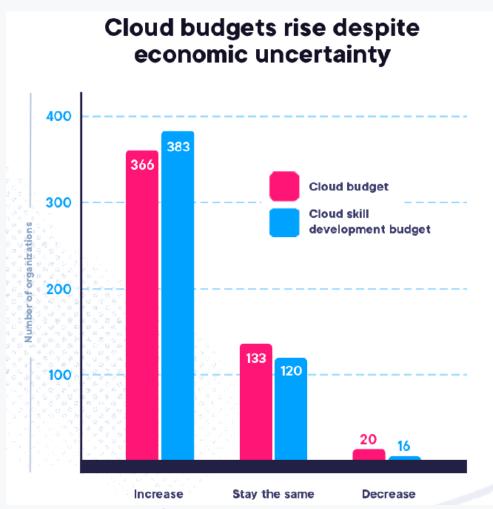
## And cloud is here to stay...



70% of organizations has over 50% of their infrastructure in the cloud.

49% actively move data to the cloud.

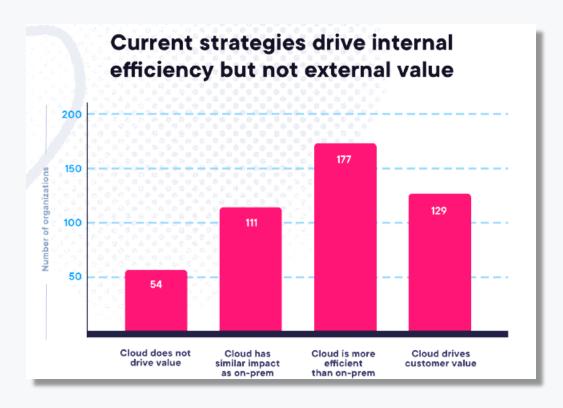
## Cloud budgets rise



71% of leaders saying their cloud budgets will increase over the next 12 months

74% of leaders also expect their cloud skill development budgets to increase

## But cloud does not reach its full potential



80% struggle to improve performance and measurement of cloud systems.

27% of leaders succeed in driving consumer value with their cloud solutions

61% of organizations able to push out new code to consumers more than once per month

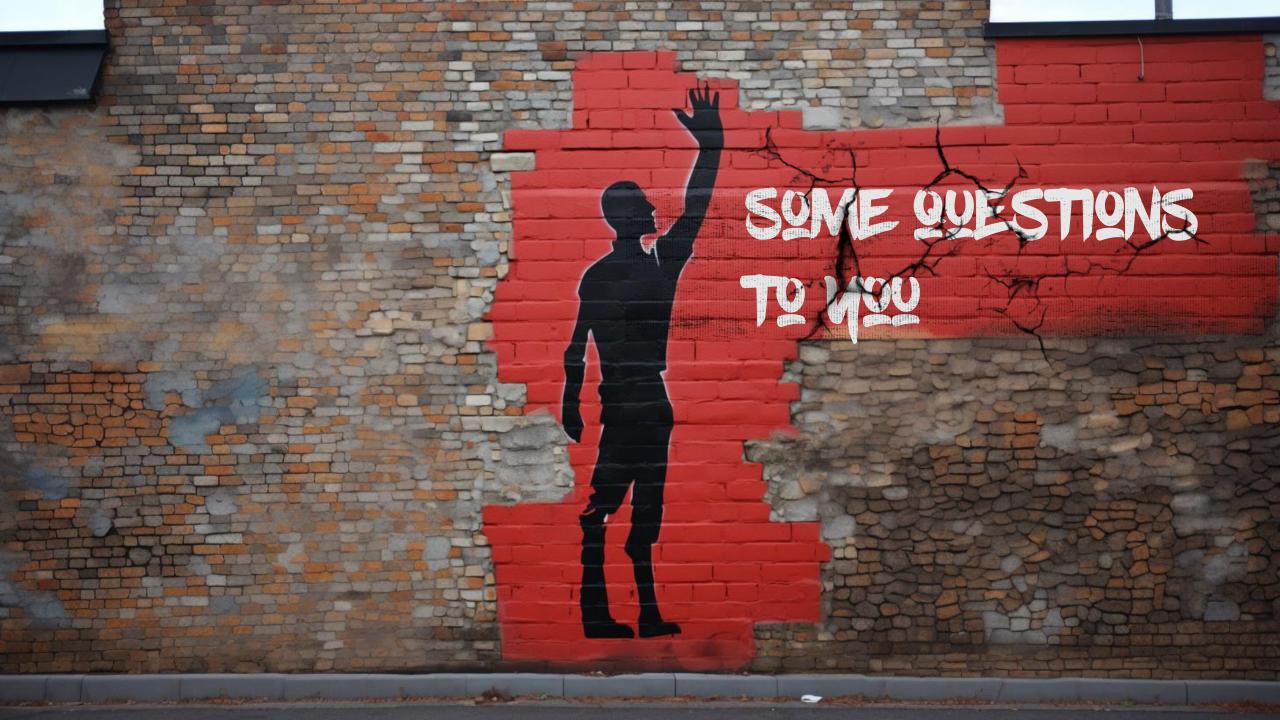
## BEFORE & AFTER





## WHAT WE HEAR

SAVE COST OPTIMIZE COST EXPENSIVE POLICIES PREDICT COST CLOUD SPEND INVISIBLE CLOUD FEAR DATA CENTERS SAVE COST OPTIMIZE COST EXPENSIVE POLICIES PREDICT COST CLOUD SPEND INVISIBLE CLOUD FEAR DATA CENTERS SAVE COST OPTIMIZE COST EXPENSIVE POLICIES PREDICT COST CLOUD SPEND INVISIBLE CLOUD FEAR DATA CENTERS SAVE COST OPTIMIZE COST EXPENSIVE POLICIES PREDICT COST CLOUD SPEND INVISIBLE CLOUD FEAR DATA CENTERS SAVE COST OPTIMIZE COST EXPENSIVE POLICIES PREDICT COST CLOUD SPEND INVISIBLE CLOUD FEAR DATA CENTERSSAVE COST OPTIMIZE COST EXPENSIVE POLICIES PREDICT COST CLOUD SPEND INVISIBLE CLOUD FEAR DATA CENTERS SAVE COST OPTIMIZE COST EXPENSIVE POLICIES PREDICT COST CLOUD SPEND INVISIBLE CLOUD FEAR DATA CENTERS SAVE COST



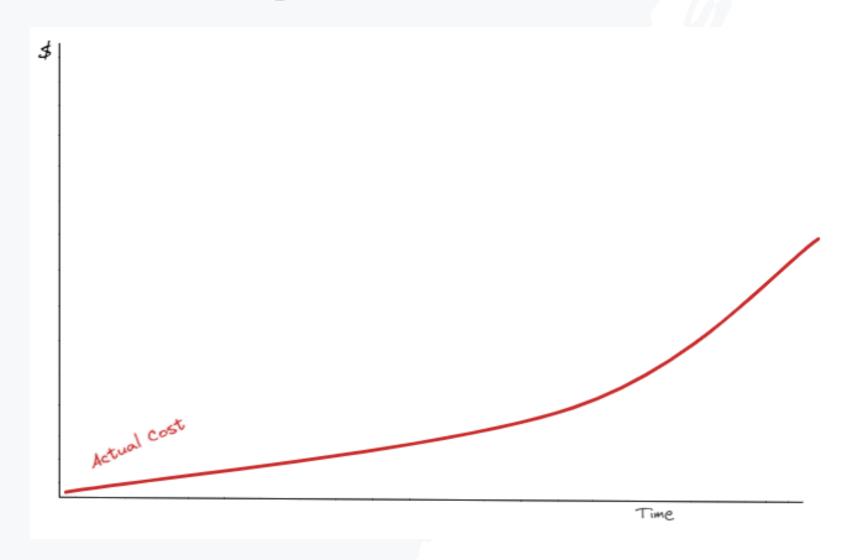




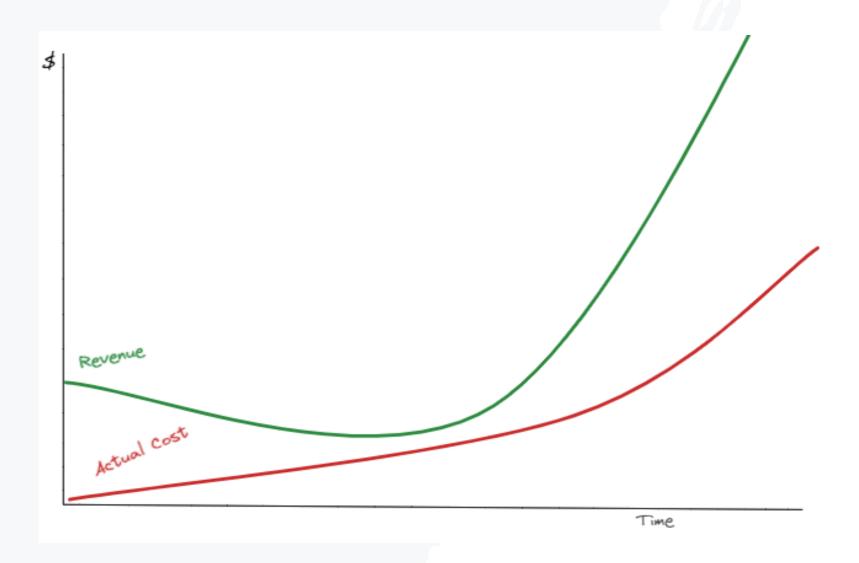




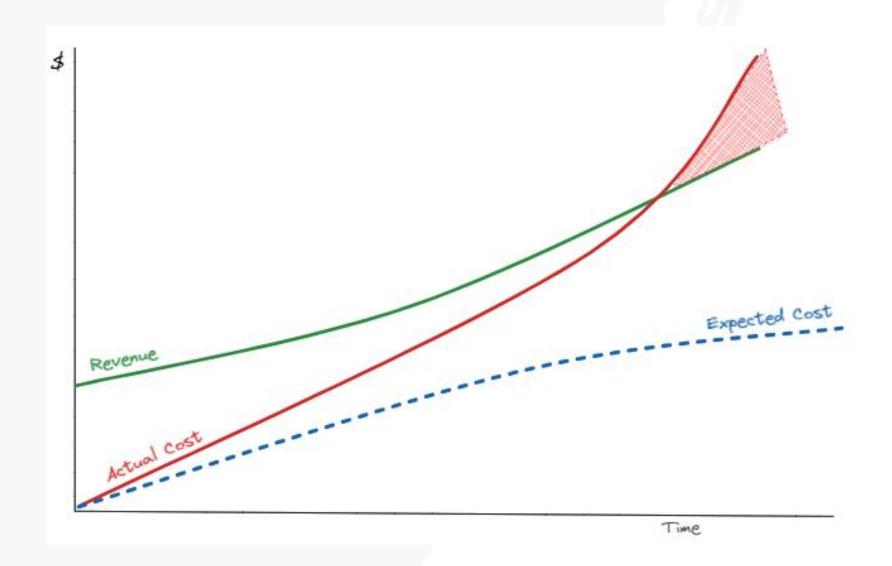
## Cloud is too expensive!



## And now?



## And now?









Bill to

Contoso

1234 Address Way City, State Zip

Customer PO No. 512

**Invoice No.** E12345JTHE

**Billing Cycle** 3/5/2017 to 4/4/2017

Invoice Date 4/5/2017 Pay-As-You-Go

Payment Method Credit Card Account Owner Email Joe@contoso.com

**Invoice Summary** 

Contoso

#### **Production Storage**

Previous balance 664.14
Payment - Thank you! -216.00
Outstanding balance (from previous billing cycle) 448.14

Current Charges

 Usage charges
 219.45

 Adjustments
 -20.00

 al Pre-Tax Charges
 199.45

 Total Pre-Tax Charges
 199.45

 VAT
 (0.000%)
 0.00

#### Total Amount

Write Operation Units (in 10,000s)

\*Payment instructions on page 2

**647.59**USD

Microsoft Azure Invoice No. **Usage Charges** Name Type Resource Region Consumed Included Billable Rate Value 1505.0000 0.0000 1505.0000 .0500 75.35 Storage Locally Standard IO - Page Redundant Blob/Disk (GB) Virtual Machines BASIC.A3 VM EU North 365.9500 0.0000 365.9500 .3000 109.79 Compute Hours (Windows) 318.7142 0.0000 .0700 22.31 318.7142 Storage Locally Standard IO - Table (GB) Redundant Data Management Standard IO - Block Blob 30.0000 .4000 12.00 0.0000 30.0000

Sub-Total 219.45

Grand Total 219.45 USD





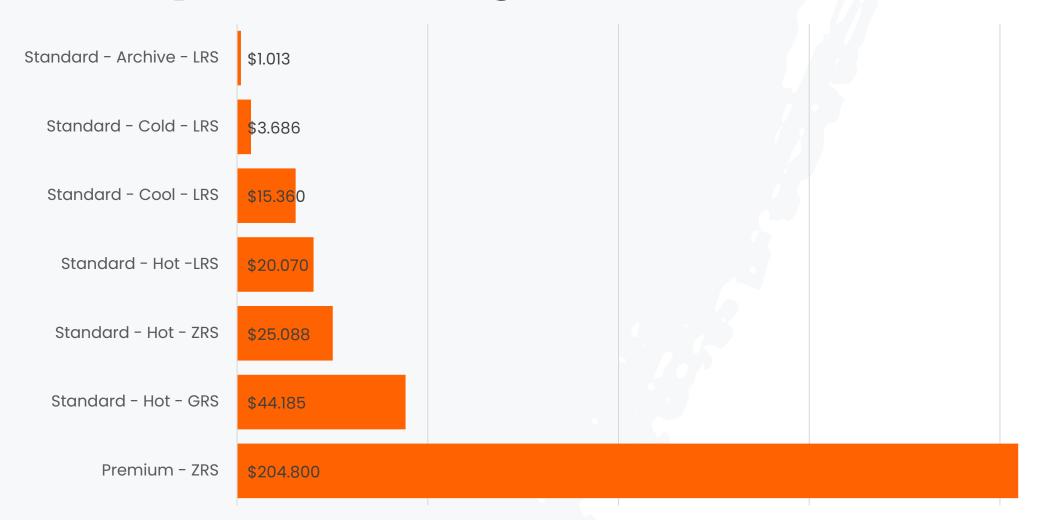
## Usage

- Compute power
- Storage space
- Disks
- Network inbound/outbound
- IP Addresses
- Security features
- Al functionality
- Number of instances
- Redundancy
- Etc.





## **Example of Storage Account SKU**



### Rates

The amount of money charged or paid for a particular service, product, or activity

Different rates for many different services

Compute, Network, I/O, Scaling, Instances, SKU, Availability

Rates vary depending on usage









## Rate Reduction

Pay-as-you-go (on-demand)

Spot Instances

**Reserved Instances** 

Saving Plans

Commitment-Based Discounts

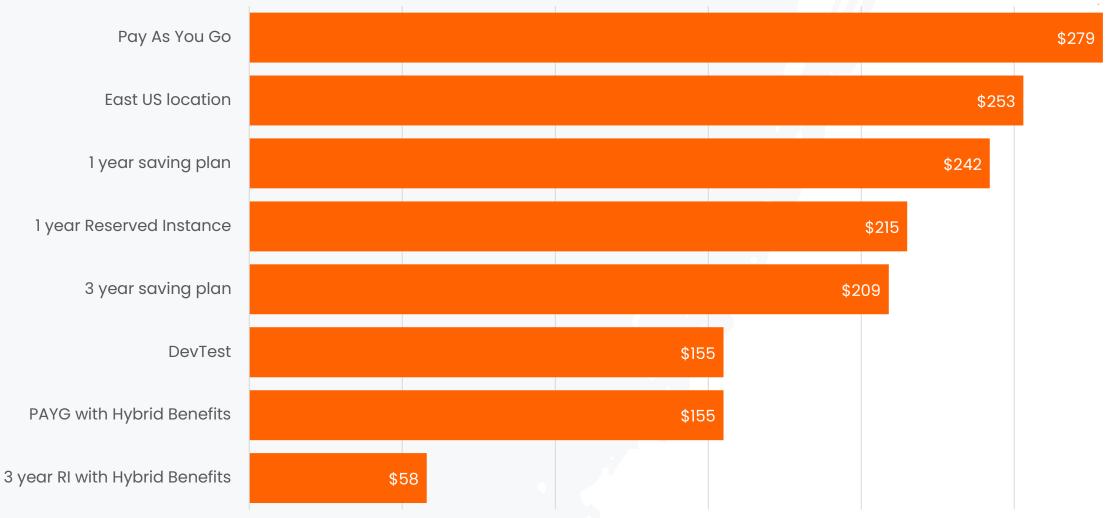
Enterprise Agreement

Dev/Test subscriptions

**Hybrid Benefits** 



## **Example VM rates**



## **Cost Avoidance**

#### Which resources show a stable usage?

Removing / Moving

**Data Retention Policies** 

**Delete Resources** 

Rightsizing

**Smart Combining** 

**Shared Services** 

Prod or Non-Prod?

Selective Use / Scaling

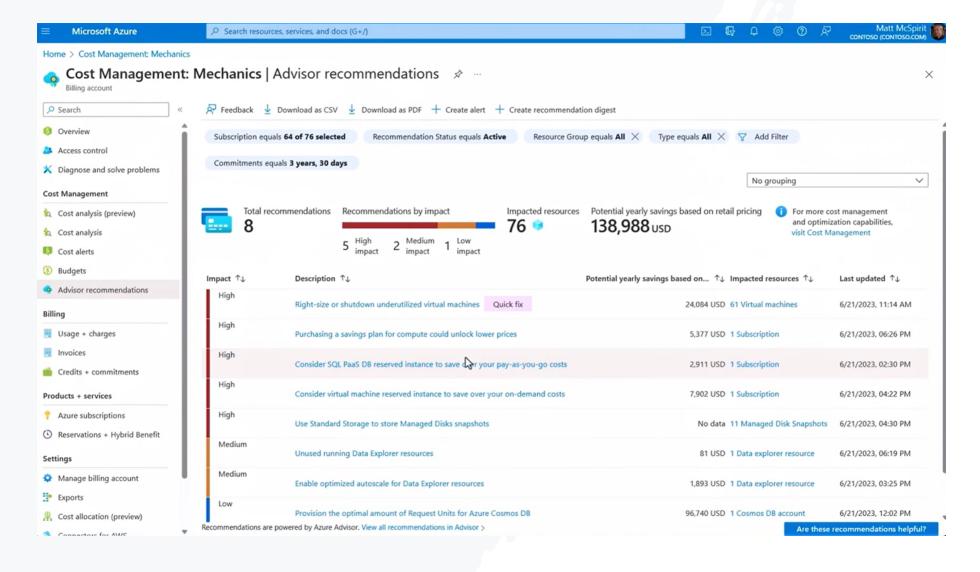
Re-Architecting

SKU



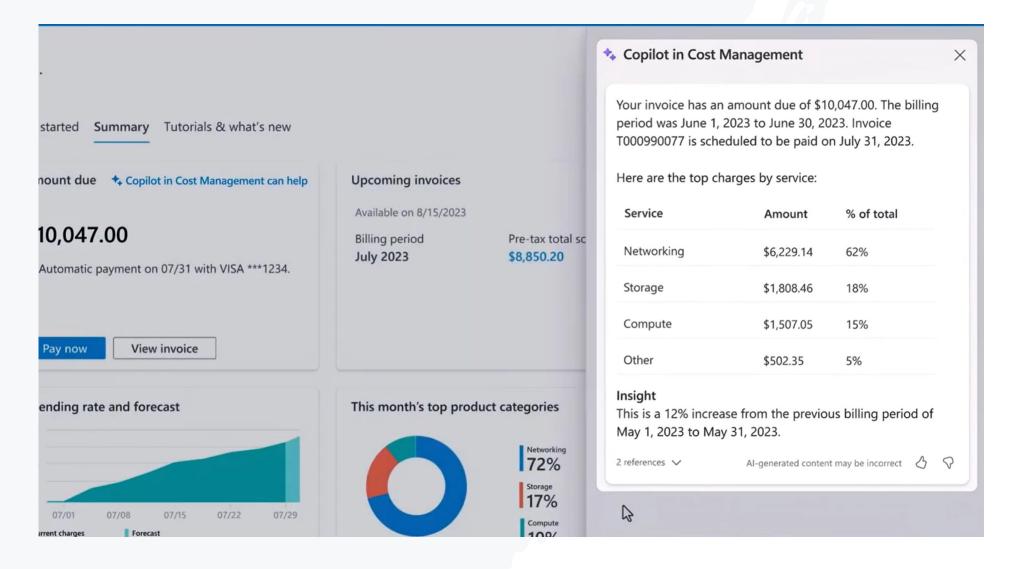


### **Azure Cost Recommendations**

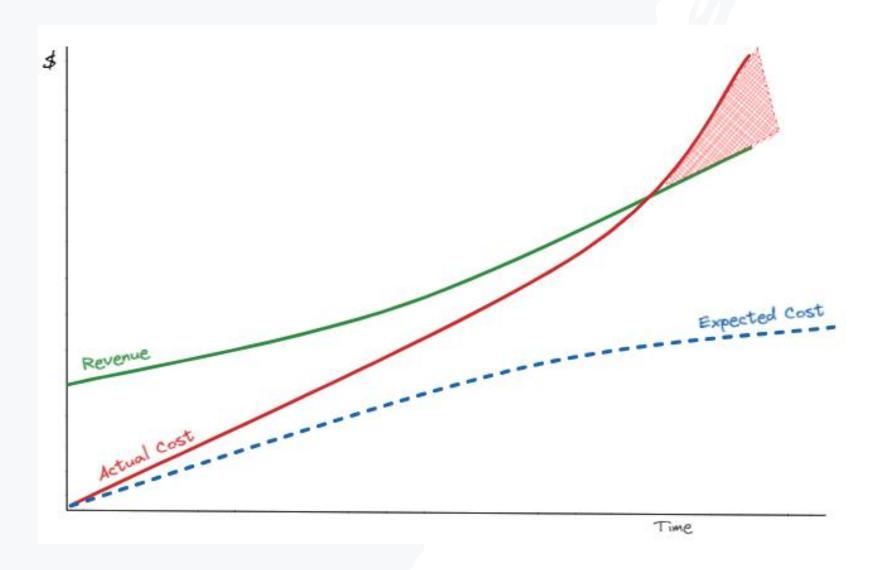




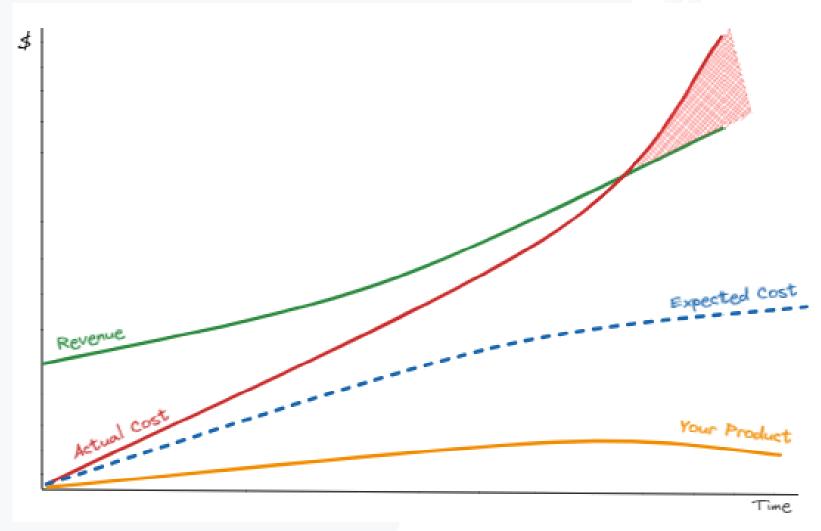
# **Azure Cost Recommendations**

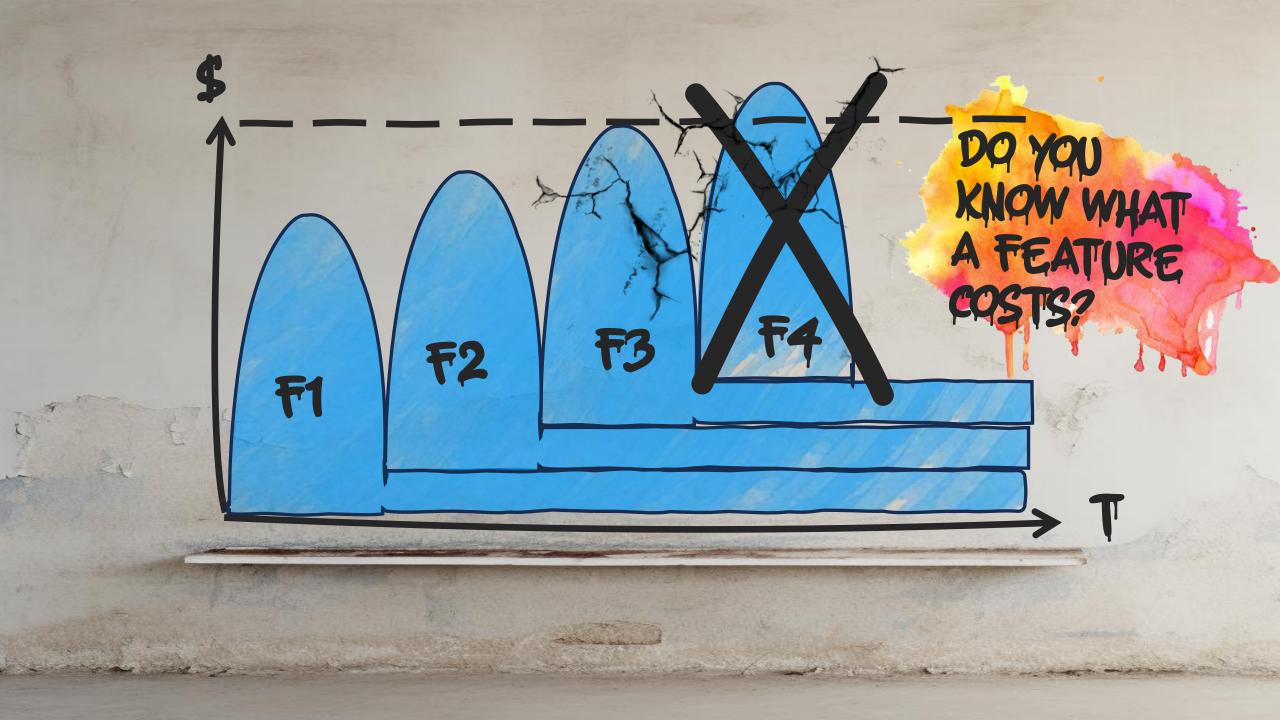


# Development teams need to save cost!

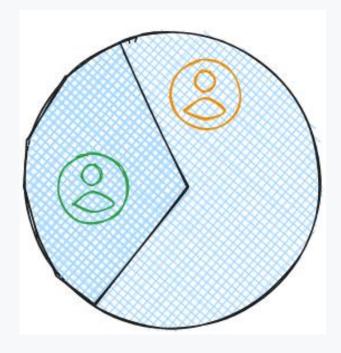


# Is that true?

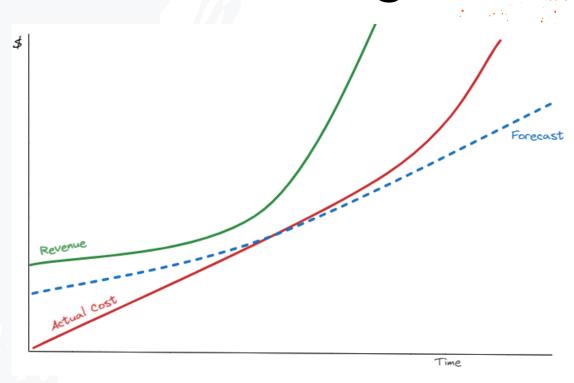




# We need ownership...



# ..and budgets





# Ownership

Who owns the cost?

- per product
- per department
- per unit
- per?

Who owns the shared cost?

How to showback or chargeback?

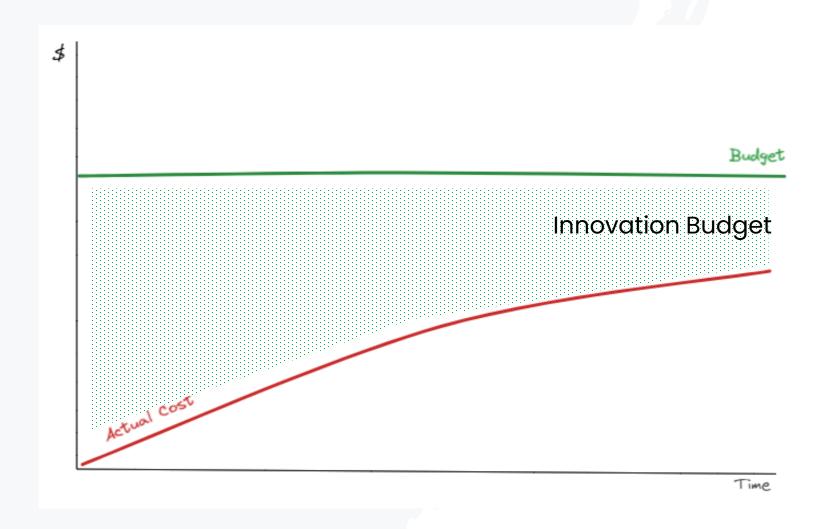




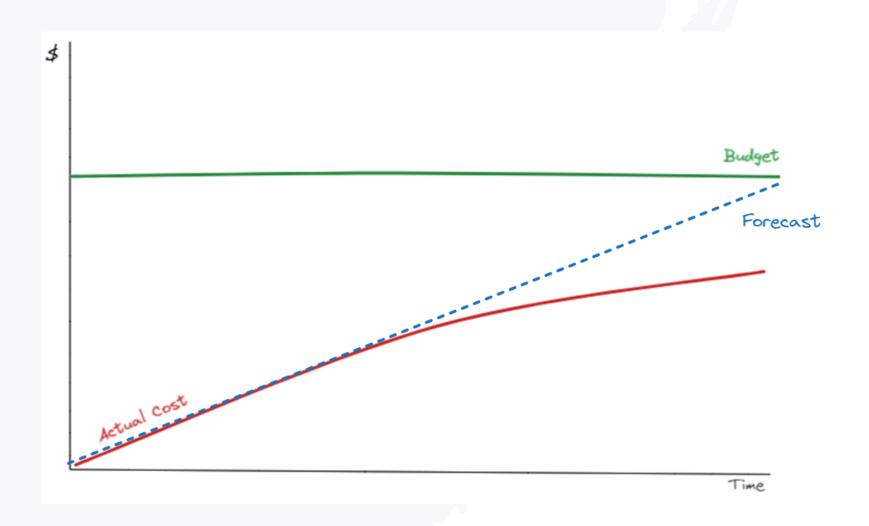




# **Budgets are real**



# Forecasts are needed



# Understand growth with Cloud Unit Economics

Unit economics is about understanding the money you make and spend on each thing you sell.

Cloud unit economics does this specifically for cloud products or services, helping you see if they're making you money.





# Examples



#### Financial SaaS Company

**Product:** SaaS platform

**Metric:** Cost per analyzed financial transaction

**Benefit:** Tied to cost to serve, Tied to pricing



#### Governmental Organization

**Product:** Application to let residents request literature

Metric: Cost per user

**Benefit:** Understand better how the site usage affects their costs



#### Online Hotel Booking company

**Product:** Booking platform

**Metric:** Cost per reservation

Benefit: Understand the impact of seasonality on infrastructure consumption



#### Rideshare company

**Product:** Ridesharing app

**Metric:** Cost per ride

Benefit: Determine cost-effective scaling strategies connected to passenger demand



#### Video Conferencing Company

**Product:** Video Conferencing SaaS

**Metric:** Cost per active user

**Benefit:** Track who their most expensive customers are

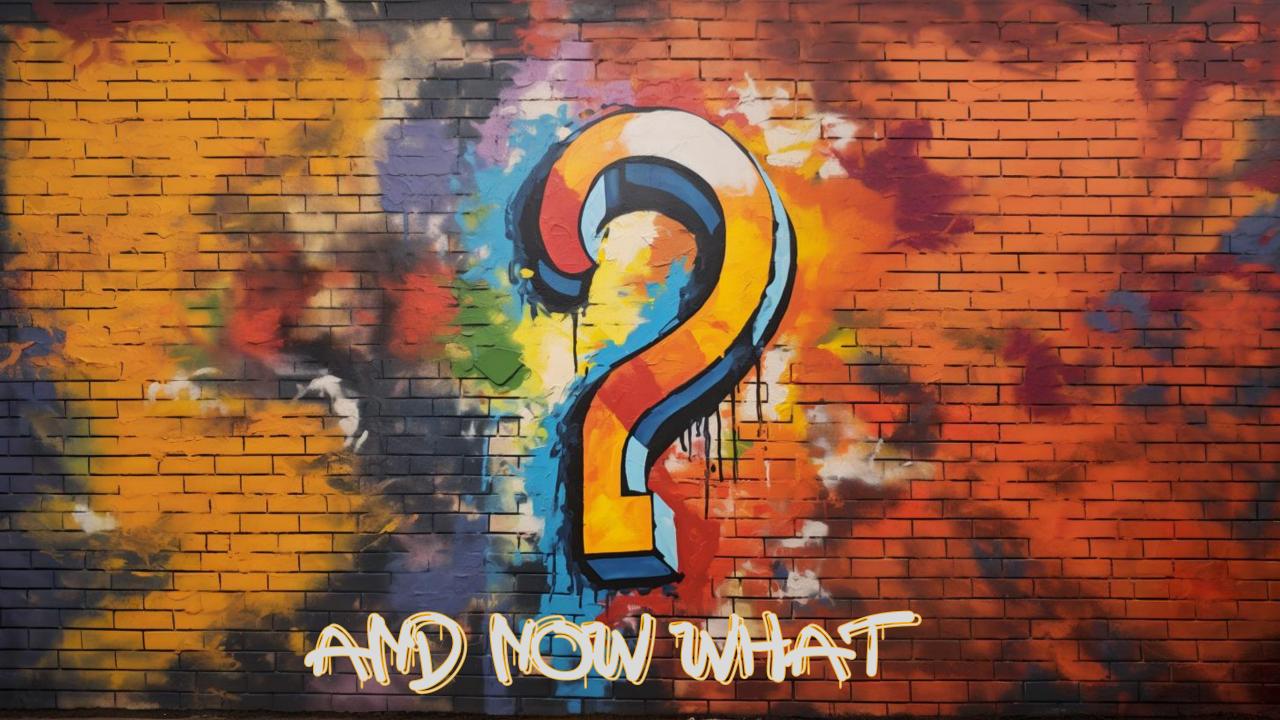


#### Professional Services Company

**Product:** Internal application used to provide accounting services

**Metric:** Cost per client engagement

Benefit: Perengagement profitability analysis; identify inefficient use of application by engagement teams



# APPLY FINOPS









TEAMS NEED TO COLLABORATE

DECISIONS ARE DRIVEN BY BUSINESS VALUE OF CLOUD

EVERYONE TAKES OWNERSHIP FOR THEIR CLOUD USAGE

REPORTS SHOULD BE ACCESSIBLE AND TIMELY

A CENTRALIZED TEAM ENABLES FINOPS

TAKE ADVANTAGE OF THE VARIABLE COST MODEL OF THE CLOUD

# APPLY FINOPS







# IT SAYS NOTHING ABOUT SAYING COST!







BUILD

COST ARCHITECTING
DIRECT FEEDBACK LOOPS







# RENÉ VAN OSNABRUGGE CTO @ XEBIA | XPIRIT

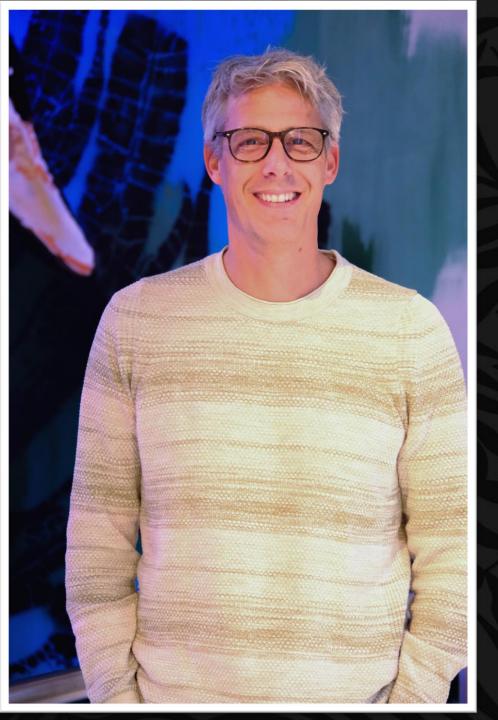
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https://xpir.it/fintasticway-techorama

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Thanks: Michiel, Matthijs, Geert

