

AI, AI, AI... ma quanto mi
costi!

Come ottimizzare e fare
FinOps su soluzioni AI based!

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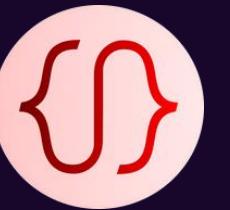


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improve

THANK
YOU!

What is FinOps?



FinOps is shorthand for “Cloud Financial Management” and “Cloud Financial Operations”



It is the practice of bringing **financial accountability** to the variable spend model of cloud, **enabling distributed teams** to adequately position business priorities between speed, cost, and quality.



At its core, FinOps is a **cultural practice**. It's the way for teams to optimize and manage their cloud costs, where everyone takes ownership of their cloud usage supported by a central best-practices group.



Cross-functional teams across IT, Finance and Procurement, work together to enable faster product delivery, while at the same time gaining more financial control and predictability.

Why FinOps?

FinOps is about getting the most **business value** from every dollar you spend in the cloud.

On-Premise IT Spend

Decision making team

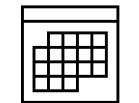
Procurement IT & Business Leaders Finance



Capital Expense



Long Planning Cycle



Formal Purchase Process



Limited Catalog Items



Low Pressure for Optimizing



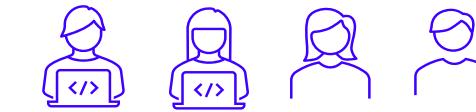
Cloud IT Spend

Cloud Influencers & Spenders

Procurement IT & Business Leaders Finance



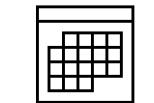
Engineers



Operating Expense



Immediate Infrastructure



Purchasing at Engineer Level



Limitless Cloud Choices

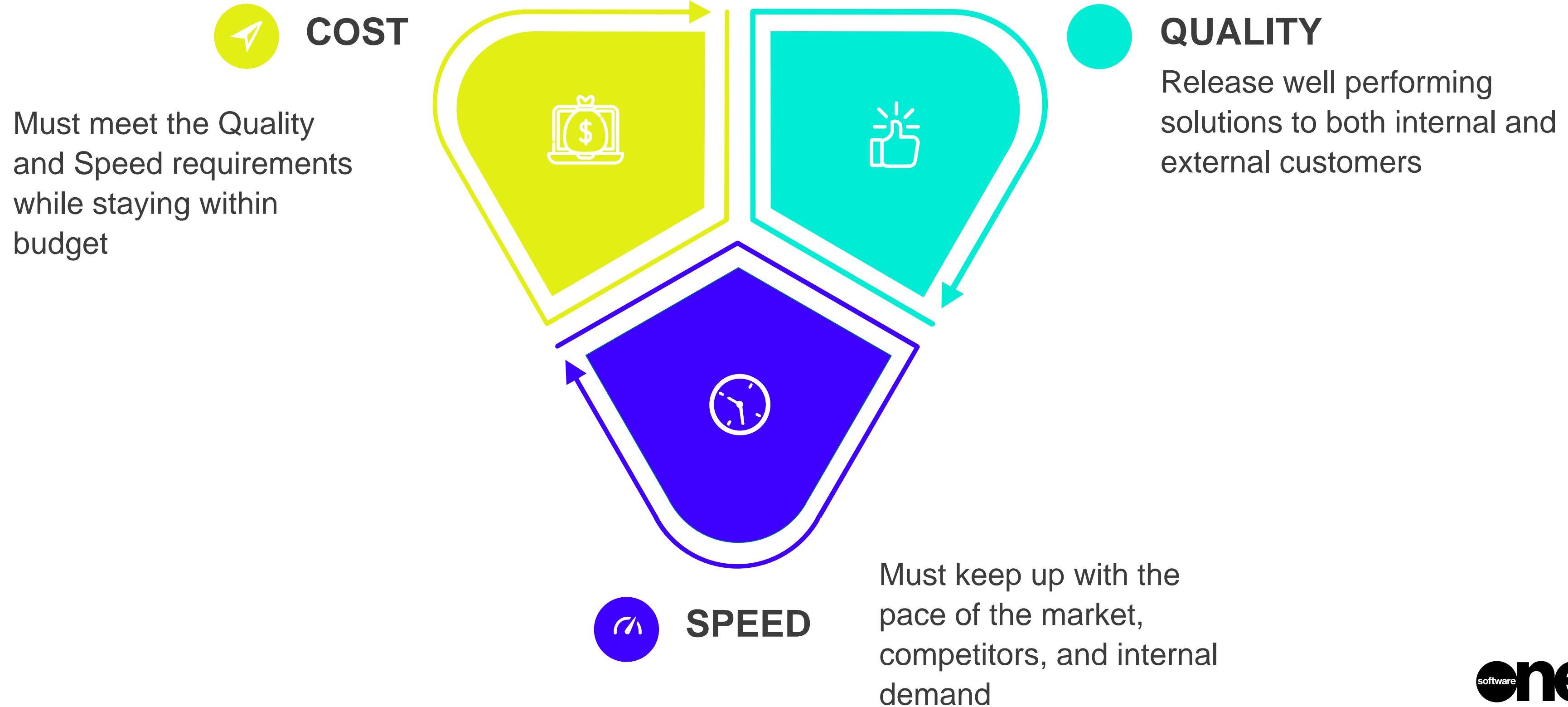


High Pressure to Optimize

Competing KPIs

Cloud Spend and Competing KPIs

Iron Triangle



FinOps Framework

FinOps Framework

FinOps is an evolving **cloud financial management discipline** and **cultural practice** that enables organizations to get **maximum business value** by helping engineering, finance & business teams to collaborate on data-driven spending decision

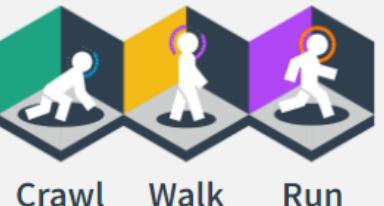
Principles

- ▶ Teams need to collaborate
- ▶ Everyone takes ownership for their cloud usage
- ▶ A centralized team drives FinOps
- ▶ Reports should be accessible and timely
- ▶ Decisions are driven by business value of cloud
- ▶ Take advantage of the variable cost model of the cloud

Personas



Maturity



Crawl Walk Run

Phases



Domains

Understanding Cloud Usage and Cost

Performance Tracking & Benchmarking

Real-Time Decision Making

Cloud Rate Optimization

Cloud Usage Optimization

Organizational Alignment

At its core, FinOps is a cultural practice.

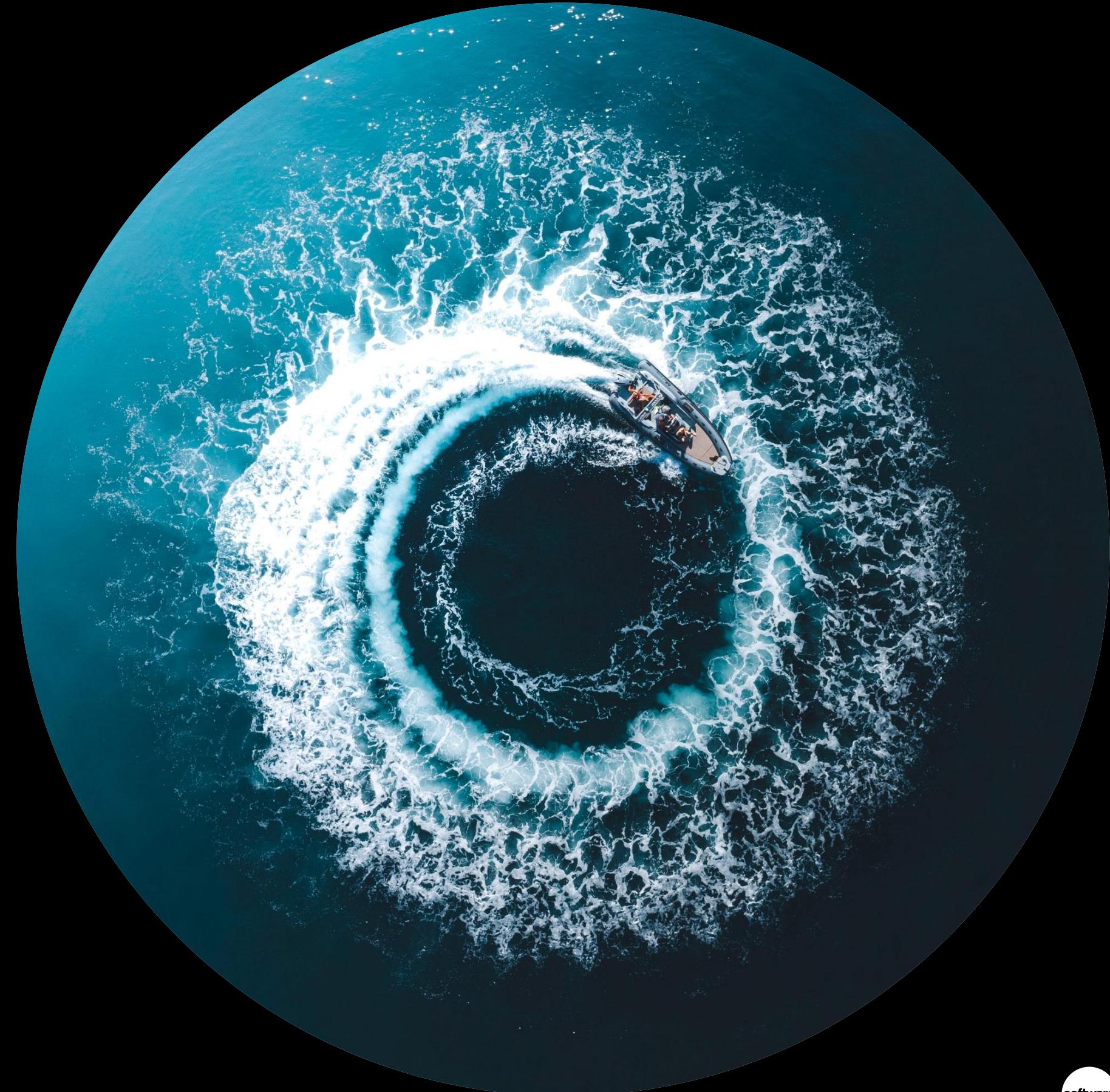
Empowerment

Accountability

Collaboration

Adoption and Change Management

Let's look at the
Microsoft
world...



A brand new Microsoft whitepaper: [FinOps with Azure](#)



FinOps with Azure

Bringing FinOps to life through
organizational and cultural alignment

Adopting these principles with Microsoft solutions

Microsoft supports these FinOps principles with the following solutions:



[Microsoft Cost Management](#) – Consider who from the business, engineering and finance teams needs to be included in budget alerts and what automation is appropriate. Support data visibility to allow collaboration and a centralized team.



[Azure Policy](#) – Help enforce organizational standards and to assess compliance at scale. Its compliance dashboard provides an aggregated view to evaluate the overall state of the environment, with the ability to drill down to the per-resource, per-policy granularity. It also helps to bring resources to compliance through bulk remediation for existing resources and automatic remediation for new resources.



[Microsoft Power BI](#) – Create, share, and consume business insights in the way that serves you and your role most effectively.



[Azure Monitor Workbooks](#) – Similar to Orphaned Resources Workbook and FinOps Insights Workbook, Azure Monitor Workbooks provide great insights on optimizing costs and help with house-keeping of Azure resources which can impact costs.



[Microsoft Teams](#) – Integrate the people, content, and tools your team needs to work together effectively.

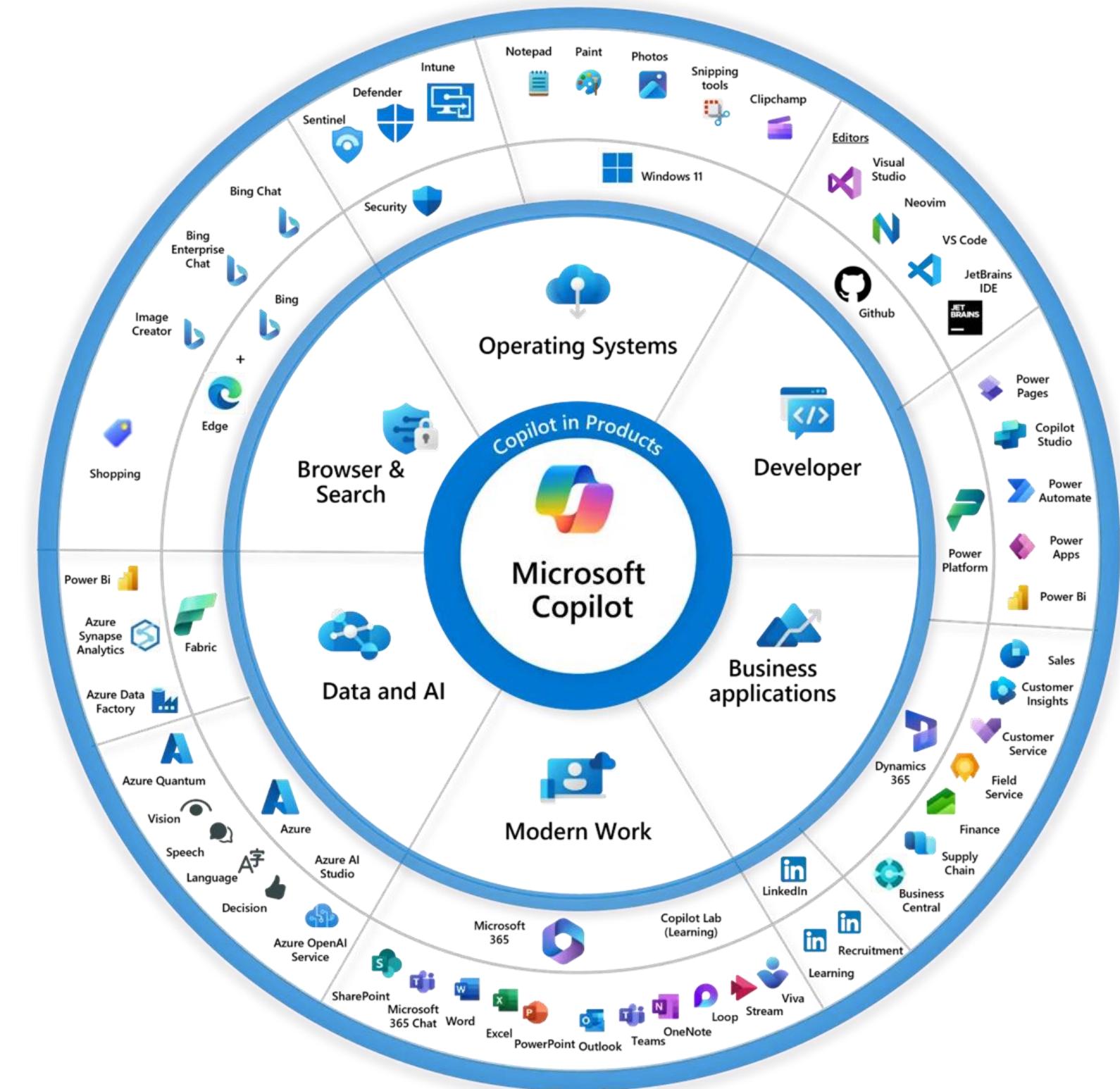


[Azure Advisor](#) – Analyzes your resource configuration and usage telemetry and then recommends solutions that can help you improve the cost-effectiveness, performance, reliability, and security of your Azure resources.

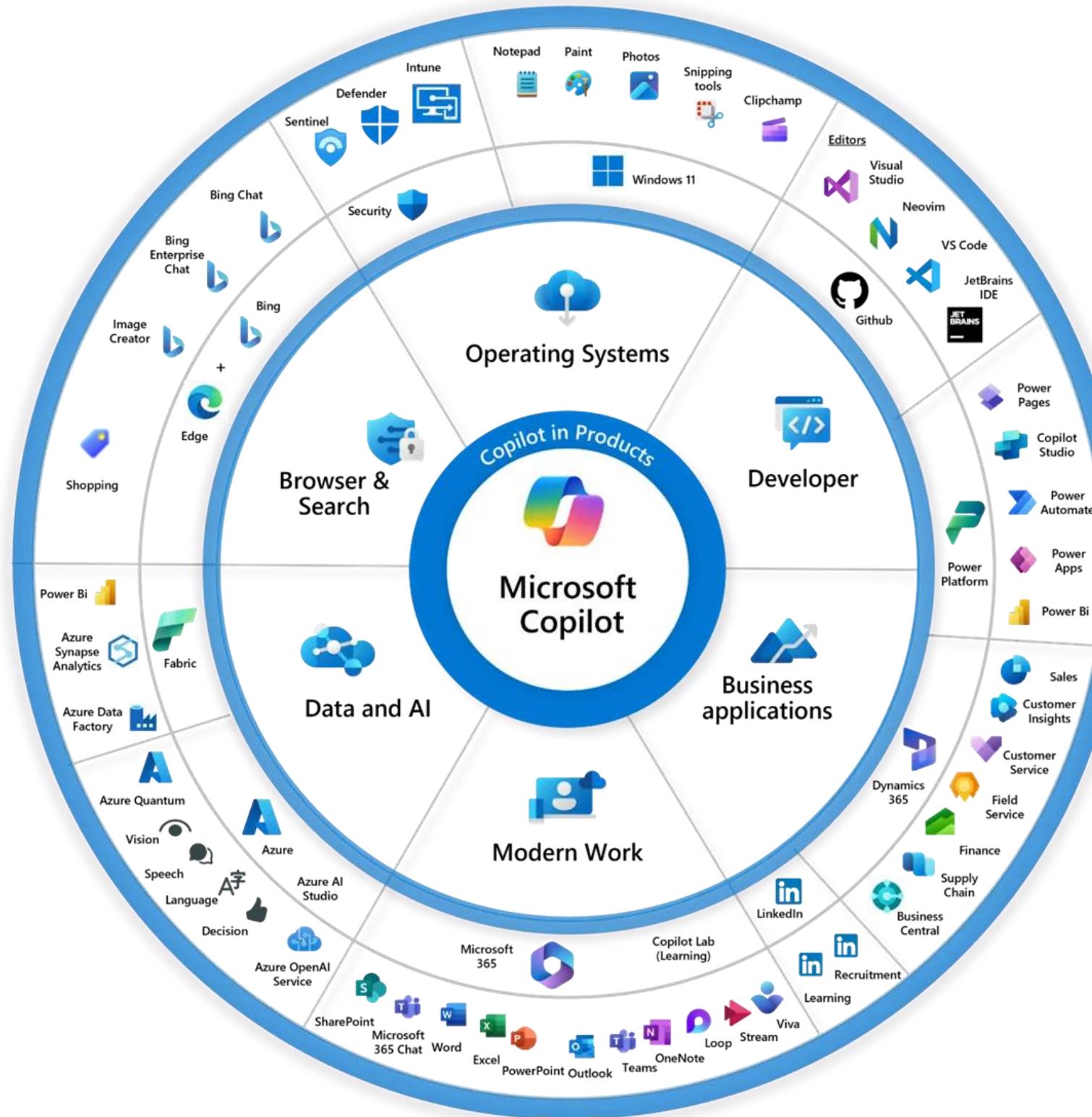


[Microsoft Azure learning paths](#) – Learn new skills to boost your productivity and enable your organization to accomplish more with Microsoft Certifications.

But today we'll focus on the AI part...

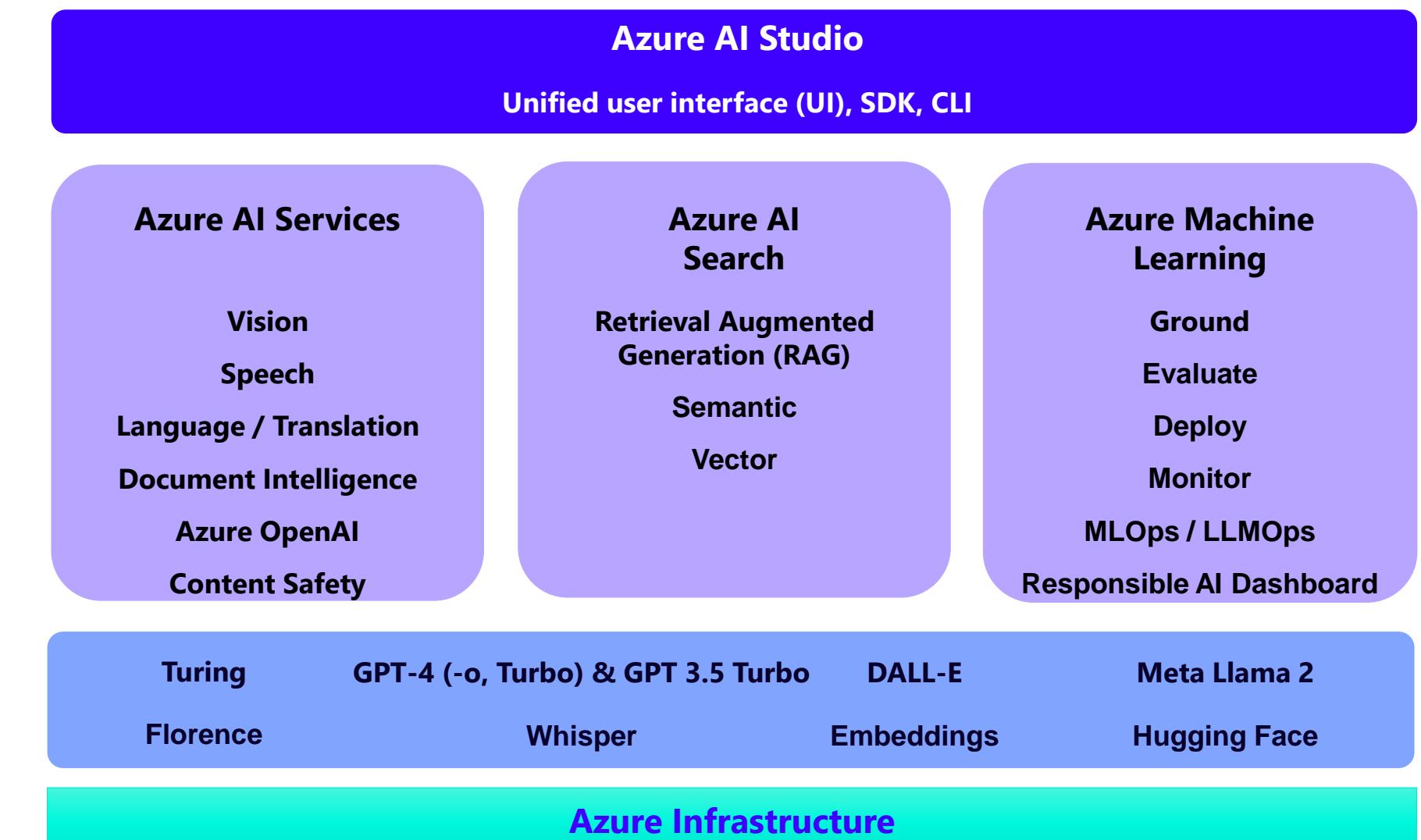
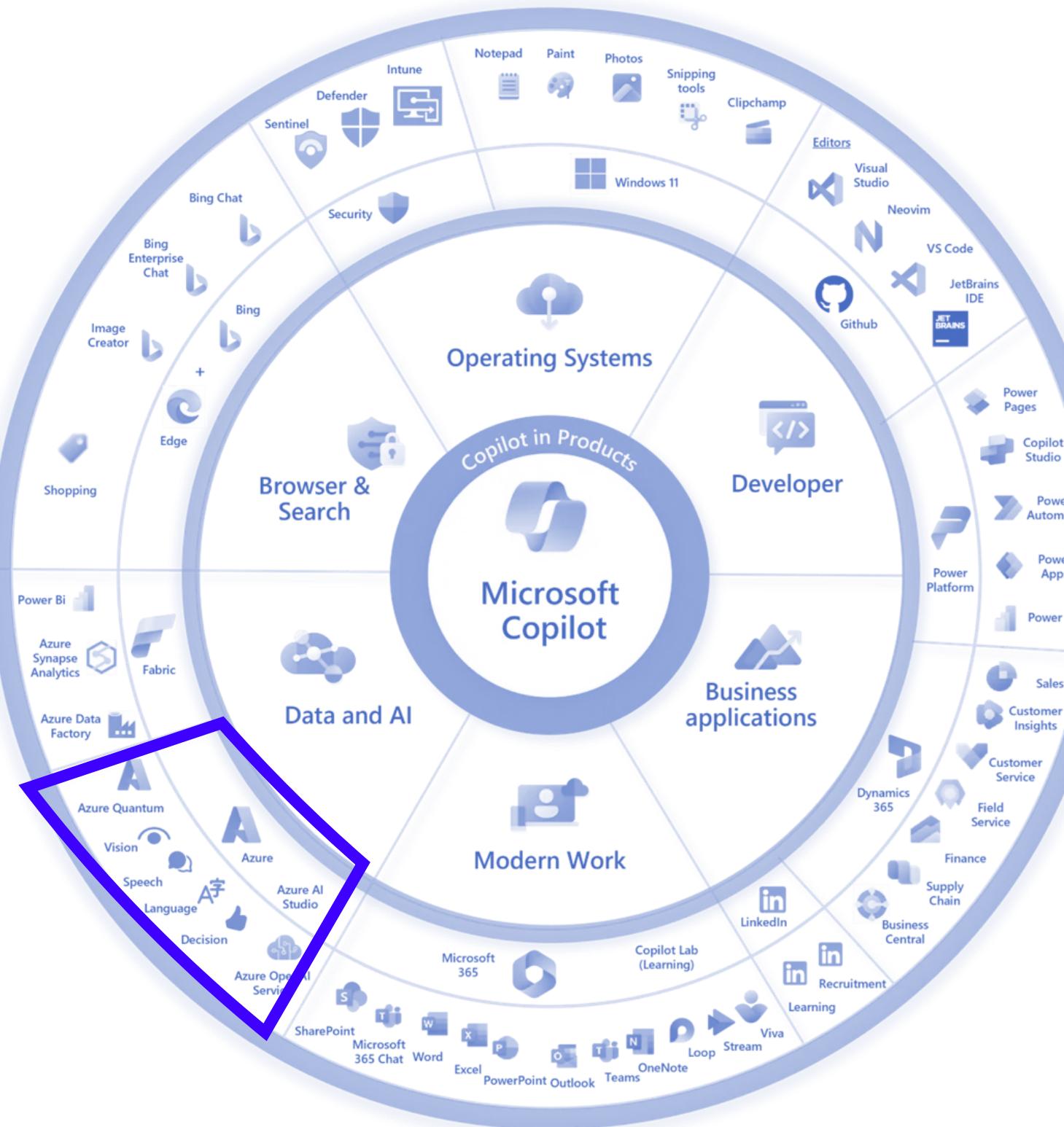


...every product has it's own license/costs/availabilities...



-  **Per user license**
-  **No additional costs**
-  **Available on certain plans only**
-  **Hourly costs**
-  **Consumption based costs**

...let's deep dive on Azure AI technologies costs!



Azure AI Price Calculator

https://azure.microsoft.com/en-us/pricing/calculator/

- Popular
- Compute
- Networking
- Storage
- Web
- Mobile
- Containers
- Databases
- Analytics
- AI + machine learning**
- Internet of Things
- Integration
- Identity
- Security
- Developer tools
- DevOps
- Management and gover...
- Media

Azure AI Bot Service

Create bots and connect them across channels

[Add to estimate](#)

Azure AI Search

Enterprise scale search for app development

[Add to estimate](#)

Microsoft Genomics

Power genome sequencing & research insights

[Add to estimate](#)

Azure Machine Learning

Use an enterprise-grade service for the end-to-end machine learning lifecycle

[Add to estimate](#)

Machine Learning Studio (classic)

ML Studio is the GUI-based integrated development environment for constructing and operationalizing Machine Learning workflows

[Add to estimate](#)

Azure AI services

Add cognitive capabilities to apps with APIs and AI services

[Add to estimate](#)

Azure Open Datasets

Cloud platform to host and share curated open datasets to accelerate development of machine learning models

[Add to estimate](#)

Azure OpenAI Service

Apply advanced coding and language models to a variety of use cases

[Add to estimate](#)

Health Bot

A managed service purpose-built for development of virtual healthcare assistants

[Add to estimate](#)

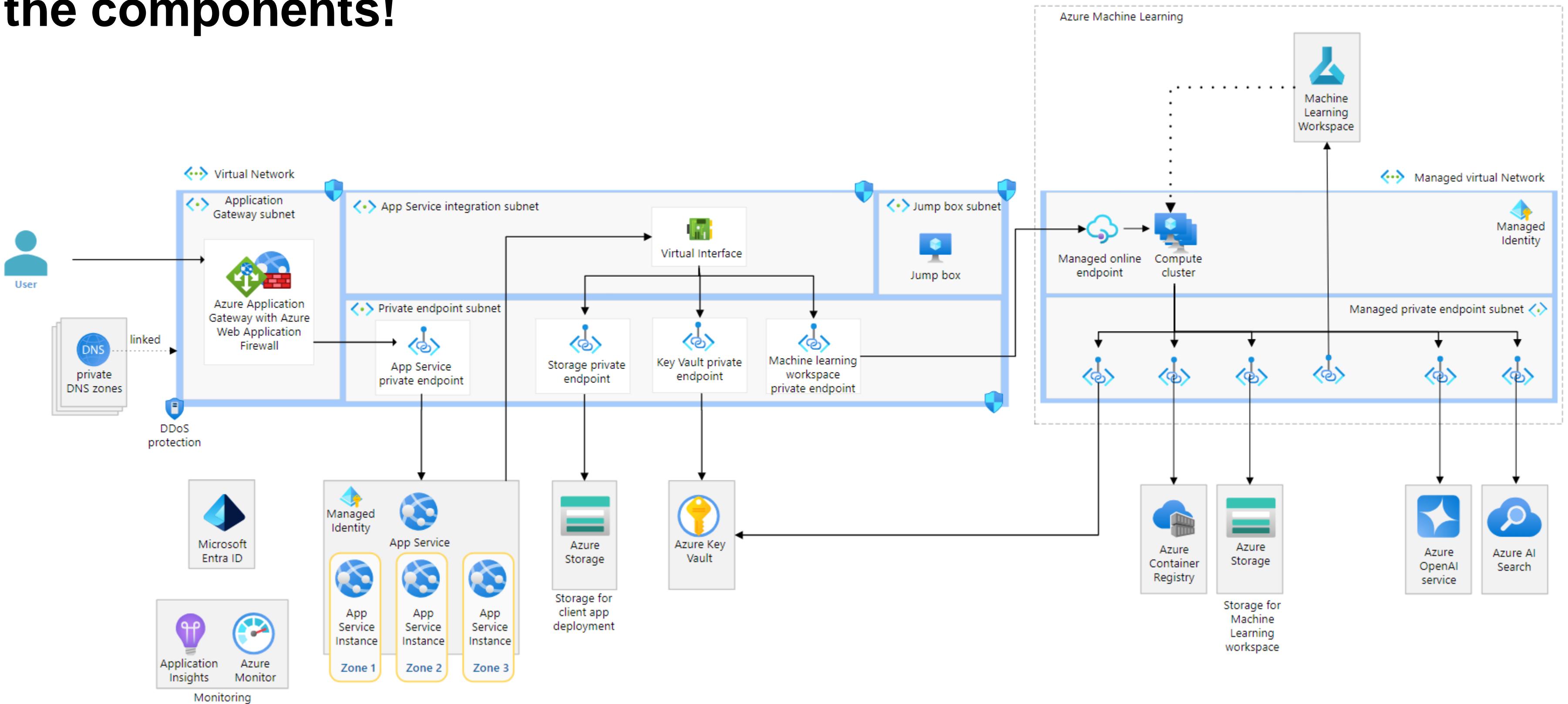
Azure AI Metrics Advisor

Azure AI Document Intelligence

Azure AI Video Indexer

[Chat with Sales](#)

Azure AI Sample Architecture... You should take into account all the components!



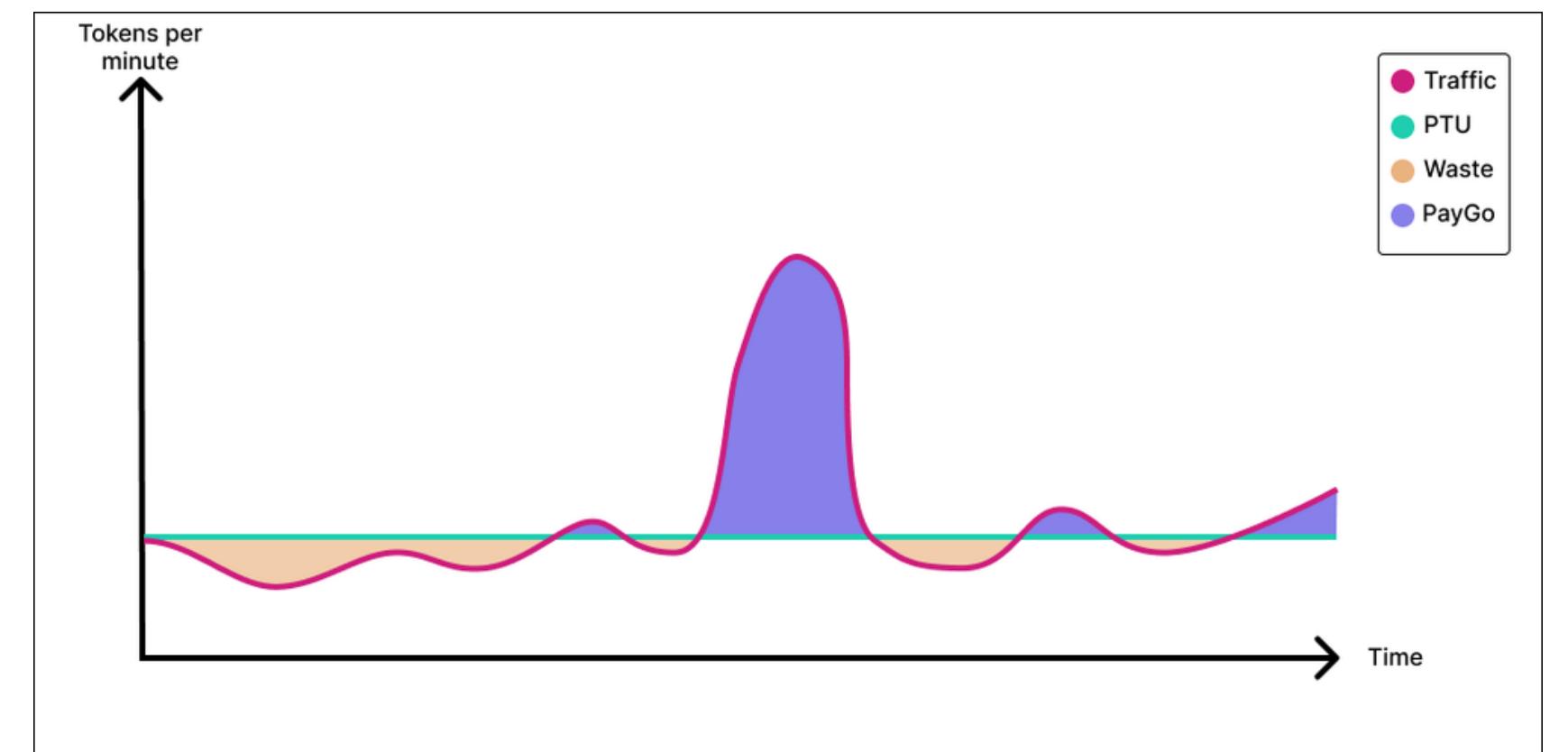
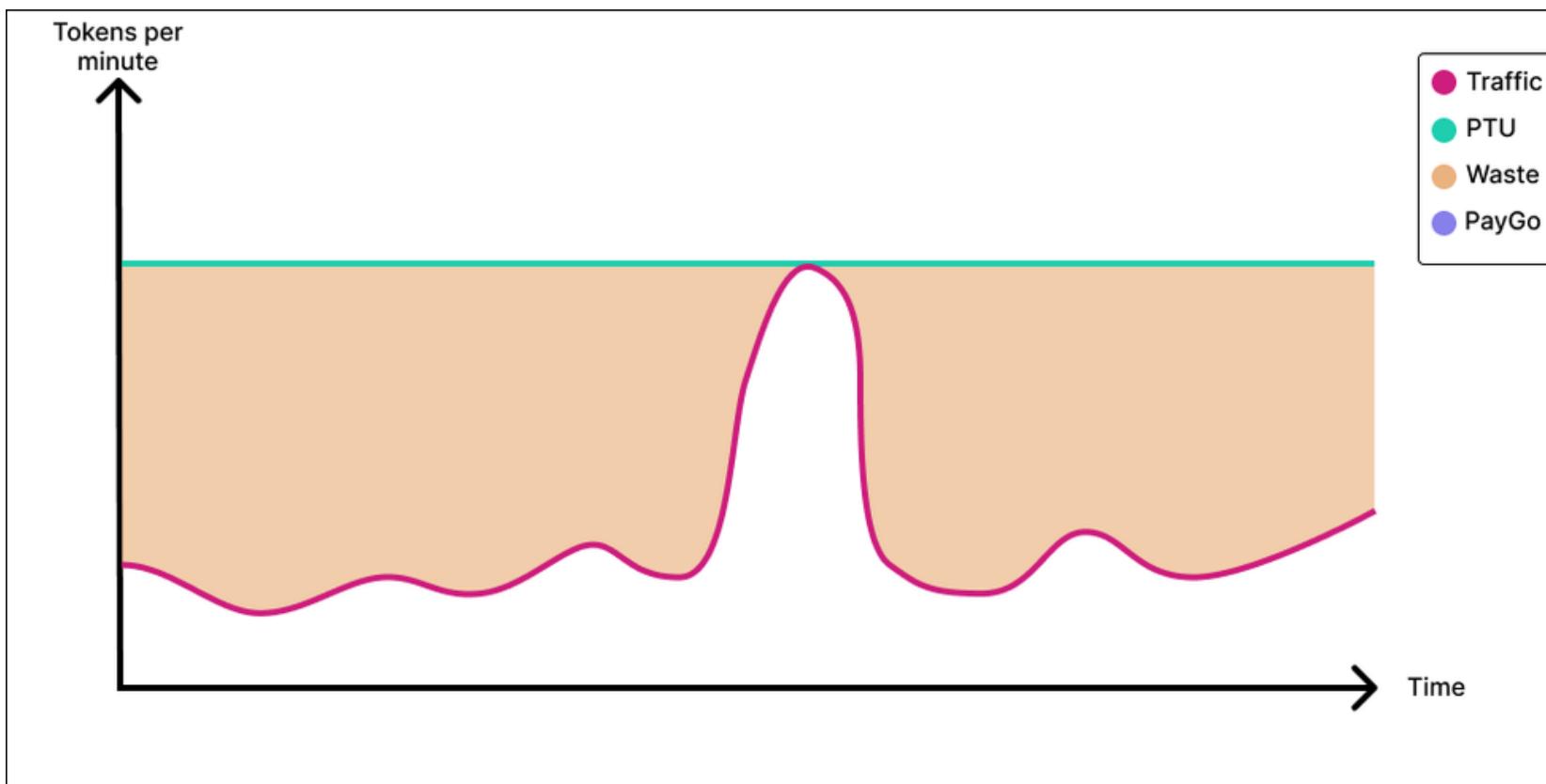
Azure OpenAI Pay as you Go vs Provisioned Throughput Units

[Azure OpenAI Service provisioned throughput - Azure AI services | Microsoft Learn](#)

[Right-size your PTU deployment and save big \(microsoft.com\)](#)

PayGo
• Variable cost, usage based
• Capped throughput
• No assigned latency
Good for:
✓ Sandbox / test environment
✓ Lower volume workloads
✓ Intermittent usage scenarios
✓ Use cases resilient to throughput variability or slowness when service is busy

PTU
• Consistent cost
• Scalable throughput
• Assigned latency
Recommended for:
✓ Production workloads
✓ High volume workloads
✓ Throughput heavy workloads
✓ Latency sensitive scenarios

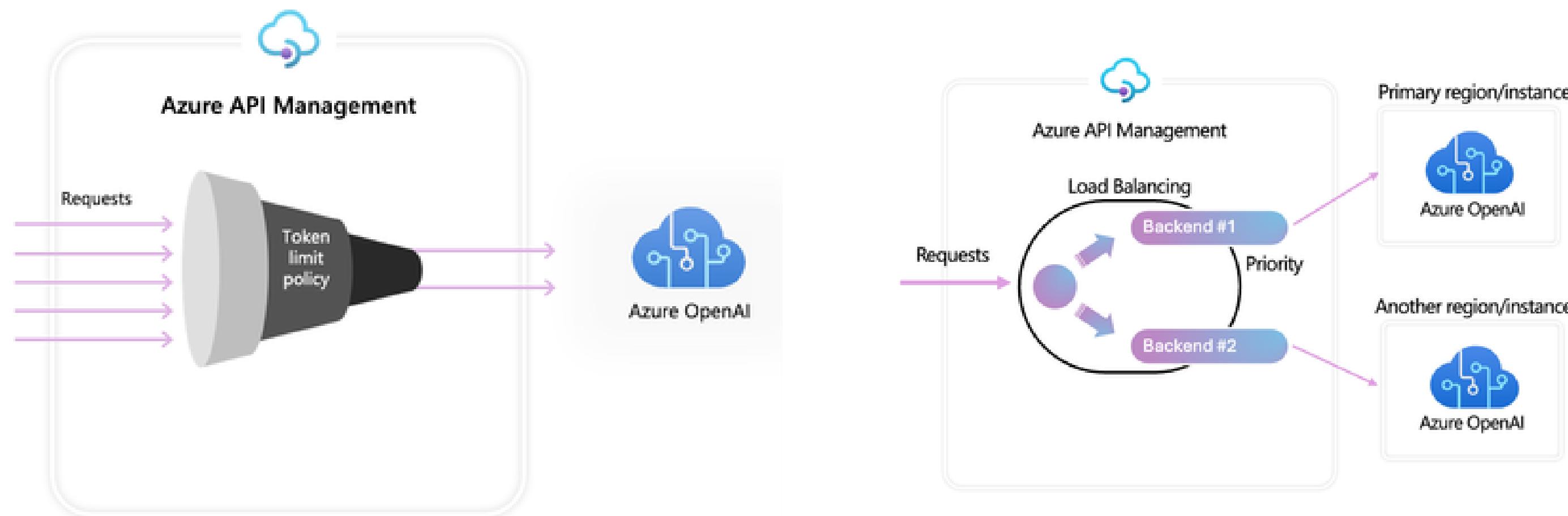


Azure API Management is your friend!

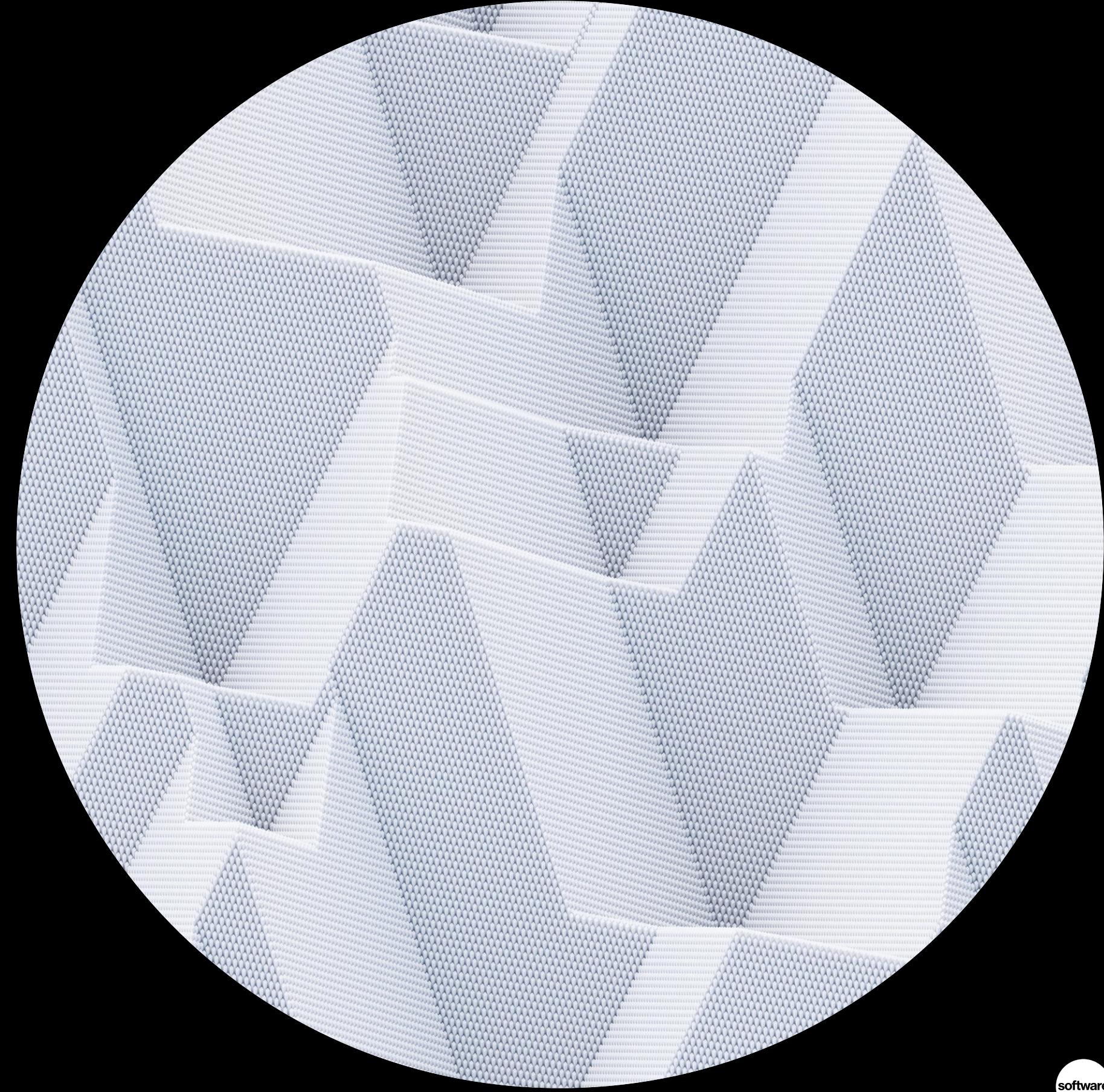
[Mastering PTU Management for LLMs and GenAI: Optimizing Azure OpenAI for Peak Performance and Cost Efficiency](#)

Calculating Usage-Based Chargebacks

To calculate usage-based chargebacks for Provisioned Throughput Units (PTUs) when sharing an Azure OpenAI instance across multiple business units, it is essential to monitor and log token consumption accurately. Incorporate the "azure-openai-emit-token-metric" policy in Azure API Management to emit token consumption metrics directly into Application Insights.



Understanding Cloud costs is not enough...



Prioritize FinOps Domains & Capabilities

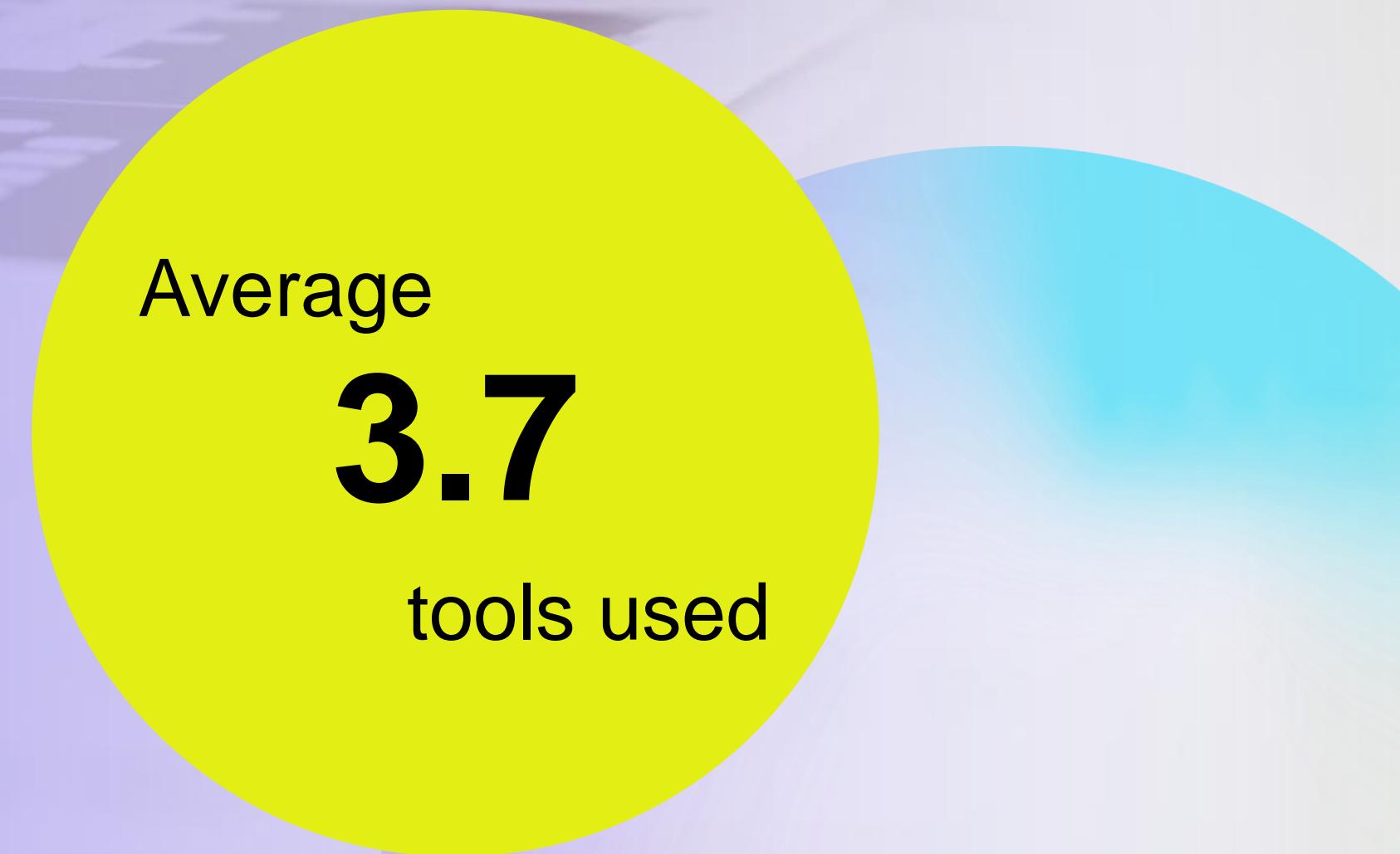


Capabilities an organization must perform in the practice of FinOps to determine their FinOps maturity level (crawl/walk/run)

Source: data.FinOps.org

FinOps Tooling Challenge

- The Cloud and FinOps market is flooded with tooling. Recent research indicates over **300 tools** claim to have cloud cost optimization
- Organizations lacking a FinOps practice, are often investing time and money in homegrown tools, which **negatively impacts** the ability to effectively manage their cloud spend and value
- Existing tooling may not be delivering desired outcomes or driving business value.



Source: data.FinOps.org

SoftwareOne FinOps Mission

**“ To accelerate the building
of Cloud Financial
Management practices
and creating long term
measurable value
from cloud investments.**

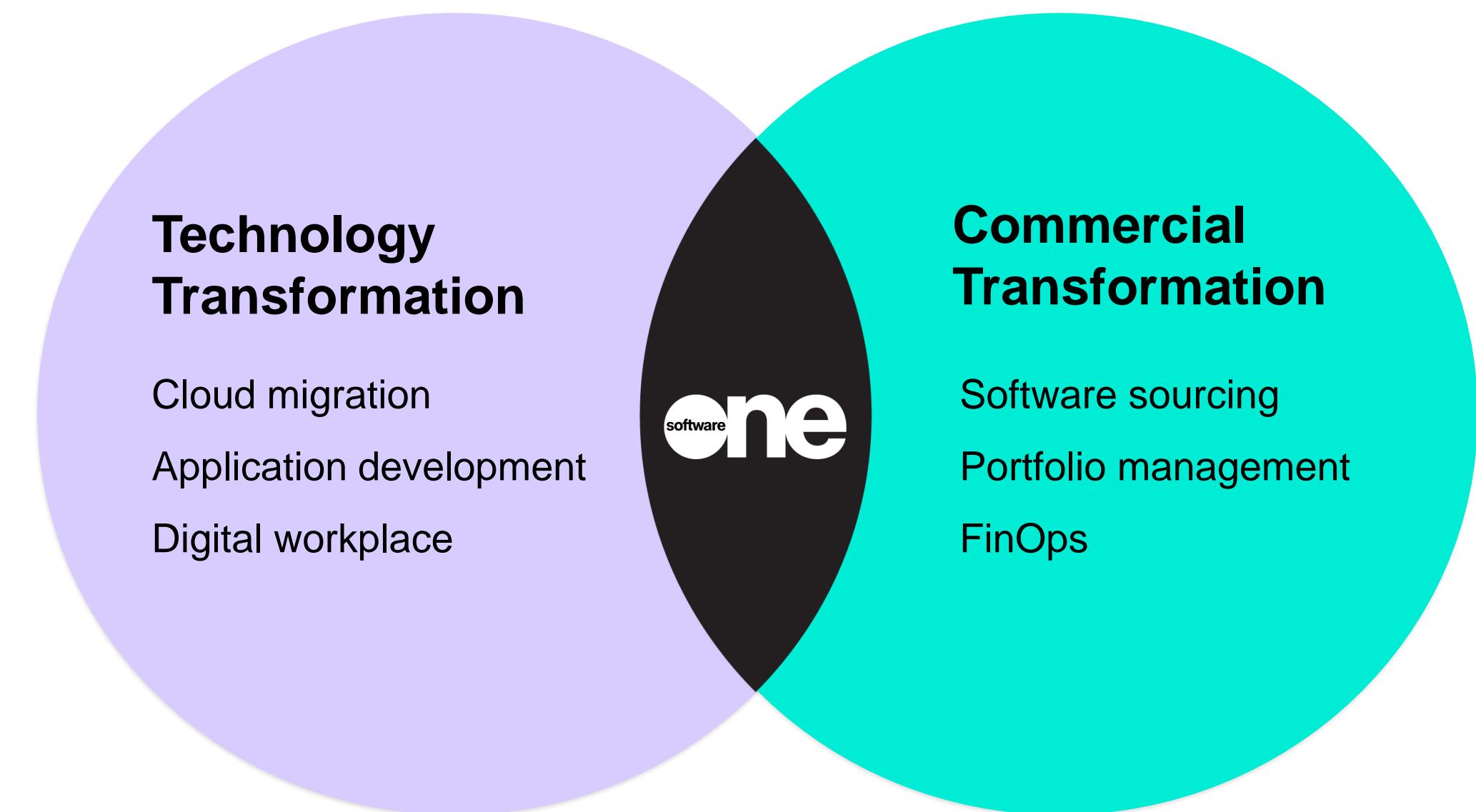


we're one.

software

Driven to deliver technology *and* commercial outcomes

- ✓ Over 10,000,000 users migrated to the cloud
- ✓ Supporting 6.9 million active users in their cloud environments
- ✓ #1 Azure Partner globally (Azure Expert MSP)
- ✓ AWS Premier Consulting Partner
- ✓ Google Cloud Premier Partner



- ✓ One of the largest certified teams in the world, over 200 FinOps Certified Practitioners
- ✓ Member of the FinOps Governing Board
- ✓ Only provider having a FinOps Certified Platform & Certified Service Provider status as well as leader on the SAM Gartner Magic Quadrant

- ✓ Global Microsoft Adoption and Change Management Advanced Specialisation
- ✓ World leader in FinOps (Cloud Financial Management)
- ✓ Leader in Gartner's Magic Quadrant for SAM Managed Services
- ✓ Over 30 years of experience with commercial models for software & cloud

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Thanks!



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