Microsoft

Microsoft Cloud Switzerland

Tech Summit

Primo Amrein – Cloud Lead Microsoft Switzerland

Engage your customers
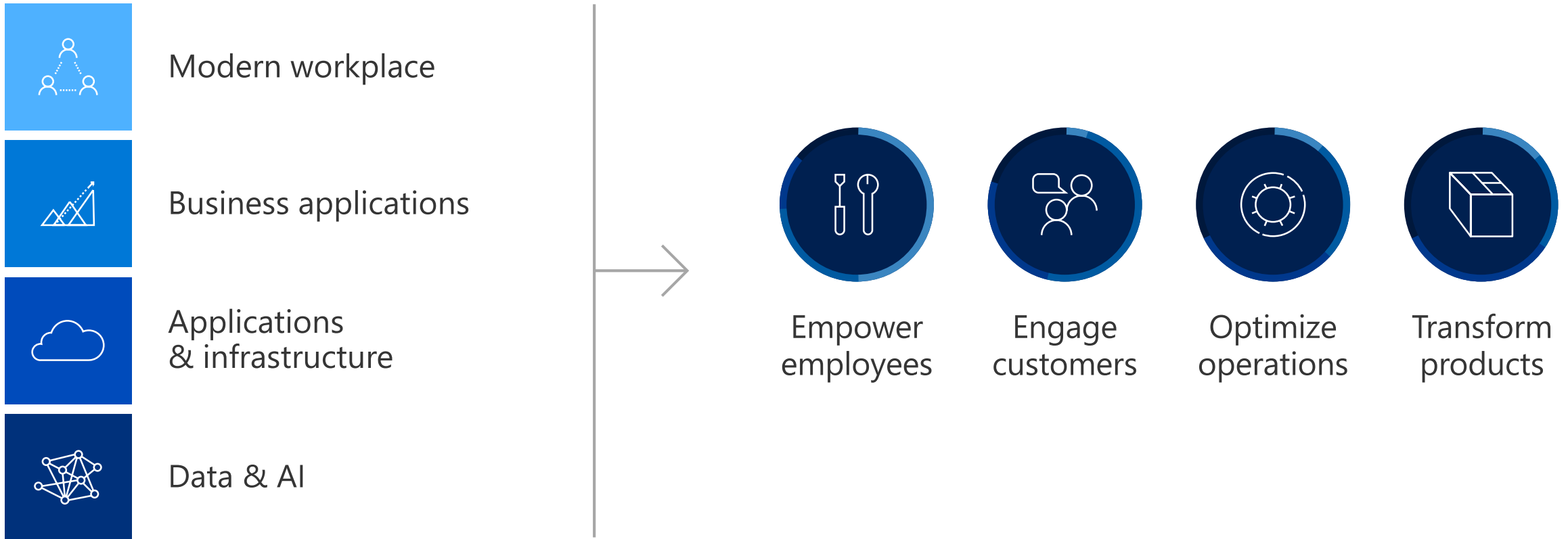
Transform your products

Digital transformation

Empower your employees

Optimize your operations

Enabling digital transformation

Modern workplace

Business applications

Applications & infrastructure

Data & AI

Empower employees

Engage customers

Optimize operations

Transform products

Microsoft Cloud

Consistent hybrid environment

Azure Active Directory	Azure Data Services	Azure Services	Azure Security & Management

Common identity	Data platform	Unified development	Security & management

Active Directory	SQL Server	Azure Stack	On-premises Infrastructure
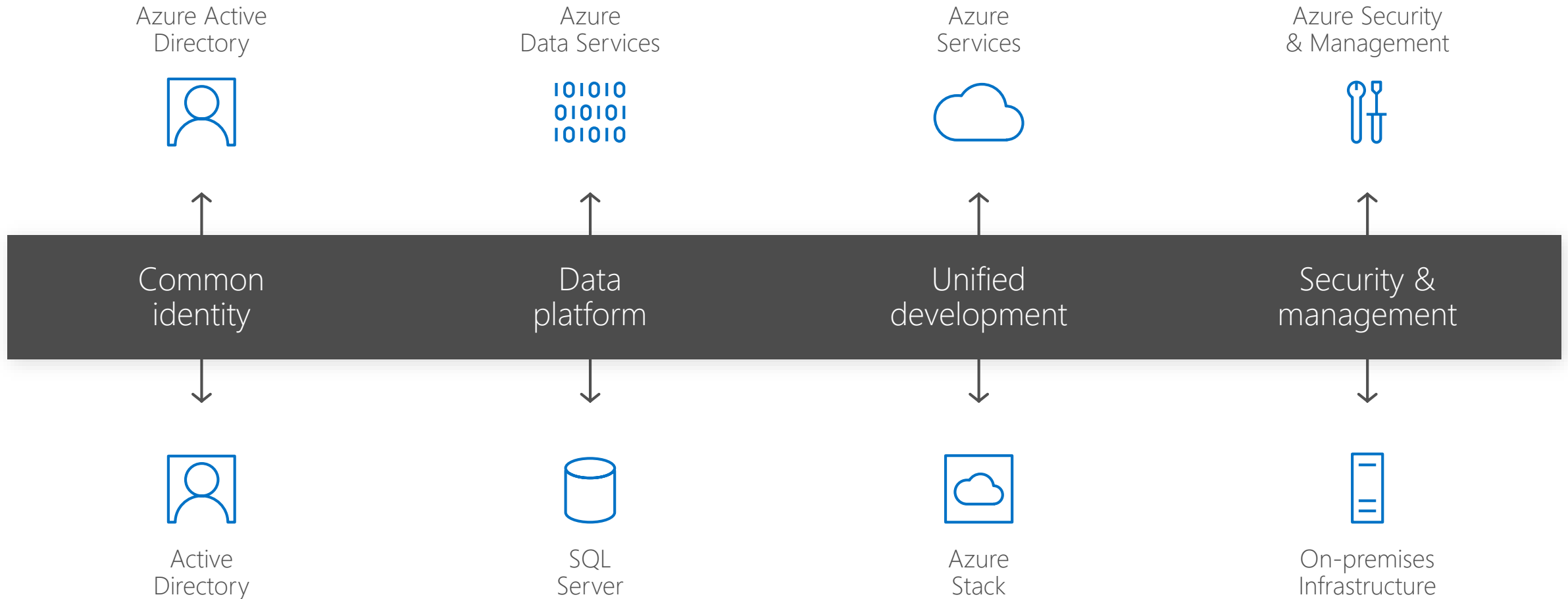
Talking about platform... Microsoft open source support

DevOps	Nagios	VAGRANT				Xamarin		
Management	CHEF	puppet labs				libcloud		SCALR CLOUD MANAGEMENT
Applications	(WordPress)	Joomla!						
App frameworks and tools	php	nodeJS						
Databases and middleware	(Hadoop)	redis				Couchbase		
Infrastructure	(Linux)	(Ubuntu)	redhat	SUSE	(Debian)	bitnami	ORACLE LINUX	FreeBSD	docker
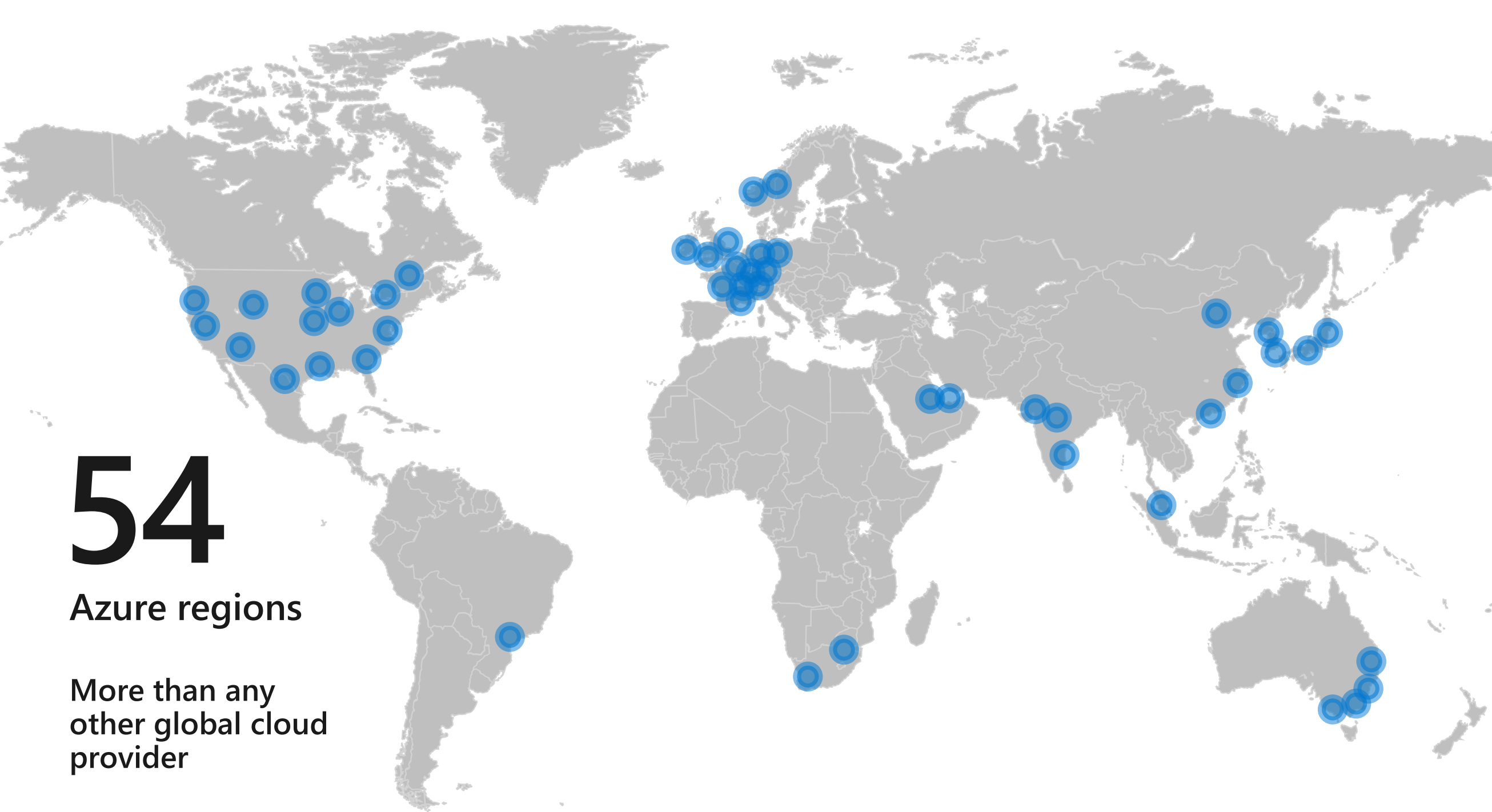
54

Azure regions

More than any
other global cloud
provider

The Microsoft Cloud is for companies of all sizes –
Swiss examples

# Microsoft Cloud in Switzerland

Compliance

Data Residency

Performance

Swiss Set-up

- Swiss entity founded, full Microsoft ownership of infrastructure, local Operations staff hired, set-up ongoing
- CH North & CH West are paired within Switzerland, **customer data at-rest does not leave Switzerland**
- Region pairing enables geo-replication for data backup, **disaster recovery as a plus**
- Based on the **same trust principles** as our global offerings

Switzerland North
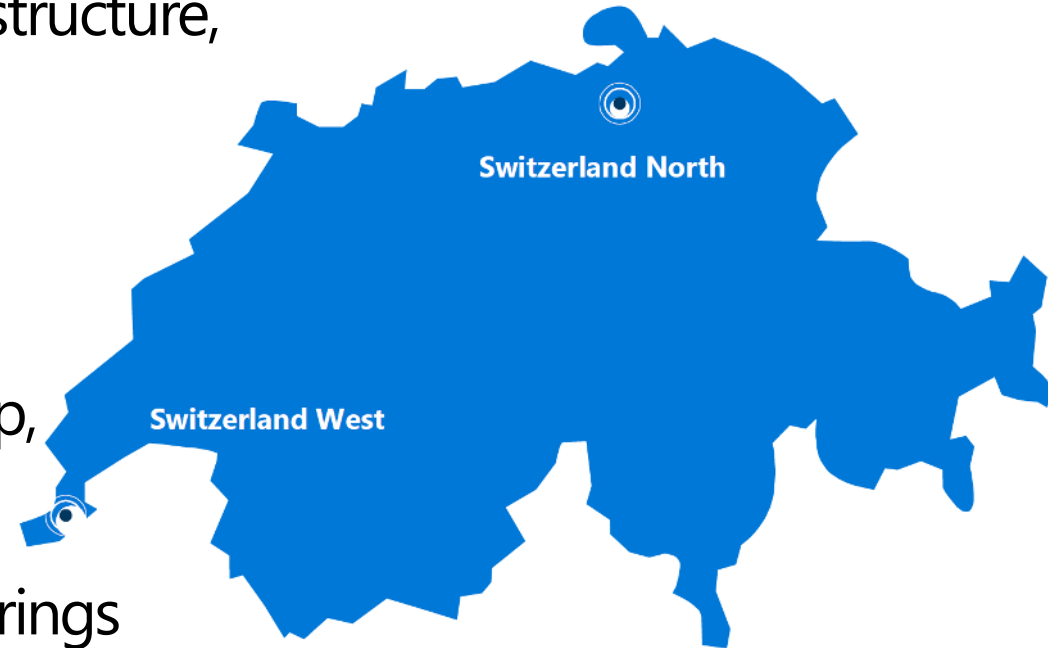
Switzerland West

Services and Timing

- Azure IaaS (compute/VMs, networking, storage, backup) and some PaaS (Azure SQL DB, Cosmos DB, Web Apps) to be launched in 2019

- Further Azure services will be deployed in Switzerland step-by-step

- Office 365 follows roughly 3-6 months after the launch of the Swiss region

- Dynamics 365 follows roughly 6-12 months after launch

Azure Launch Services

Application Gateway	**Key Vault**
Azure Cosmos DB	**Load Balancer**
Azure Data Lake Storage Gen2	**Service Bus**
Azure Resource Manager	**Service Fabric**
Azure SQL Database	**Storage**
Azure SQL Database/Managed Instance	**Storage/Disk Storage**
Azure SQL Database/SQL Data Sync	**Storage/Hot/Cool Blob Storage Tiers**
Azure Service Manager (RDFE)	**Storage/Managed Disks**
Backup	**VPN Gateway**
Cloud Services/A0 - A7/Av2-Series/D-Series/Dv2-Series/Dv3-Series/Ev3-Series	**VPN Gateway/Virtual WAN**
Cloud Services/Instance Level IPs	**Virtual Machine Scale Sets**
Cloud Services/Reserved IP	**Virtual Machines A0 - A7/Av2-Series/B-Series/D-Series/DS-Series/DSv2-Series/DSv3-Series/Dv2-Series/Dv3-Series/ESv3-Series/Ev3-Series/F-Series/FS-Series**
Event Hubs	**Virtual Machines/Instance Level IPs**
ExpressRoute	**Virtual Machines/Reserved IP**
ExpressRoute/ExpressRoute Circuits	**Virtual Network**
ExpressRoute/Gateways	**Site Recovery**
Redis Cache	**Azure Monitor\Log Analytics**

Azure Services Roadmap

Extract of services planned to launch in the months after GA:

- SAP-on-Azure

- Web Apps/App Services

- SQL Data Warehouse

- Azure Kubernetes Services

- Azure DB for PostgreSQL / MySQL / MariaDB

- Media Services

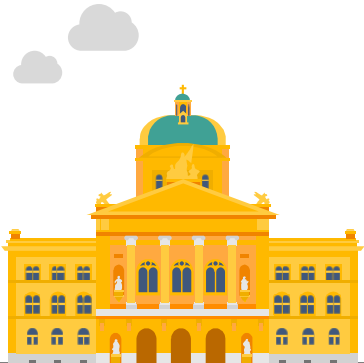- Power BI

Talking about SAP-on-Azure...

Please welcome as a special guest:

Zhdan Staruch

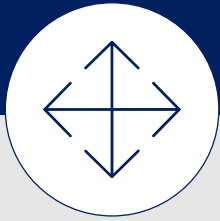Head of Partner Management, Digital Core Cloud

SAP EMEA

SAP HANA Enterprise Cloud with Microsoft Azure:

The trusted, seamless, optimized path to enterprise-ready innovation in the cloud

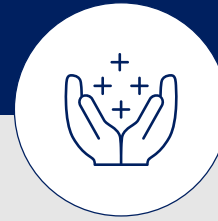# The Worlds of Cloud and Mission-Critical Applications are Merging

Enterprises are past the tipping point of mainstream cloud adoption

By 2021 enterprise cloud spending will exceed $530b, and **90% will use multiple cloud services** and platforms

– 2018 IDC Prediction

The driver of cloud transformation is becoming business value, not IT cost

The cloud is becoming enterprises' most critical and dependable source of sustained technology innovations

– Frank Gens, IDC

Digital Transformation requires an integrated approach to cloud and application landscapes
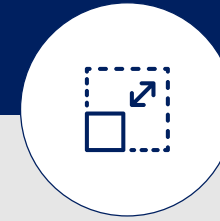
While ~75% report a working hybrid cloud policy and strategy...**more than 50%** of these enterprise IT operations lack the full range of skills and capabilities to operate mission critical applications in the cloud

– IDC 2017

Microsoft | SAP

Microsoft and SAP Deliver a Modern IT Foundation

Committed to empowering digital transformation and innovation for our customers in partnership together

A 30-Year Partnership

Optimized: Roadmaps and innovation by design
- ✓ Co-located developers
- ✓ Unique capabilities and experience

Trusted: Not just partners, but customers as well
- ✓ SAP runs on Microsoft and Microsoft runs on SAP
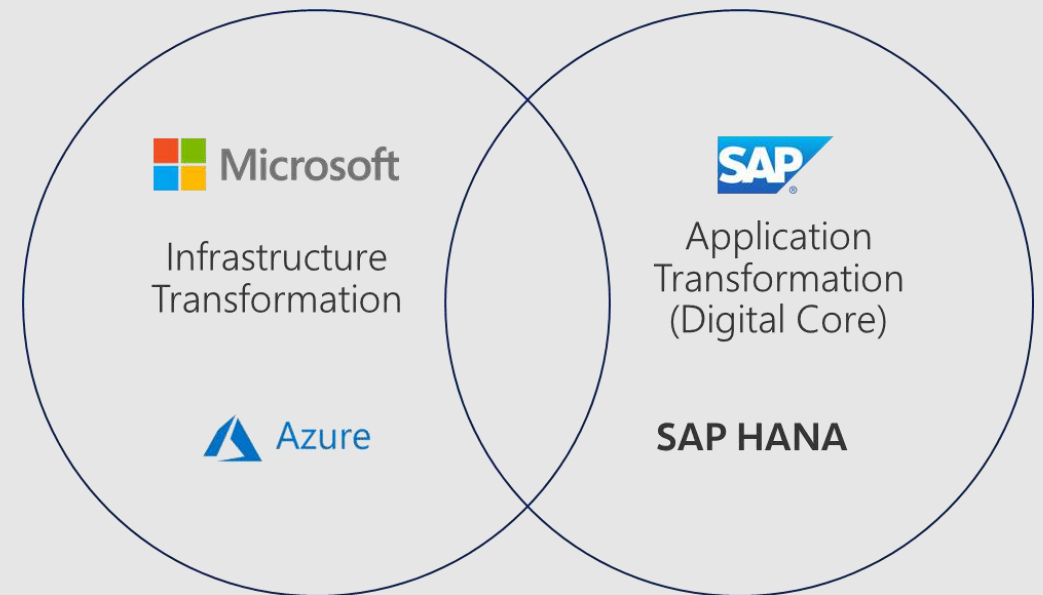- ✓ **85%** of Fortune 500 have SAP and Microsoft Cloud

Seamless: Integrated enterprise-class support
- ✓ Seamless support provided by co-located support staff
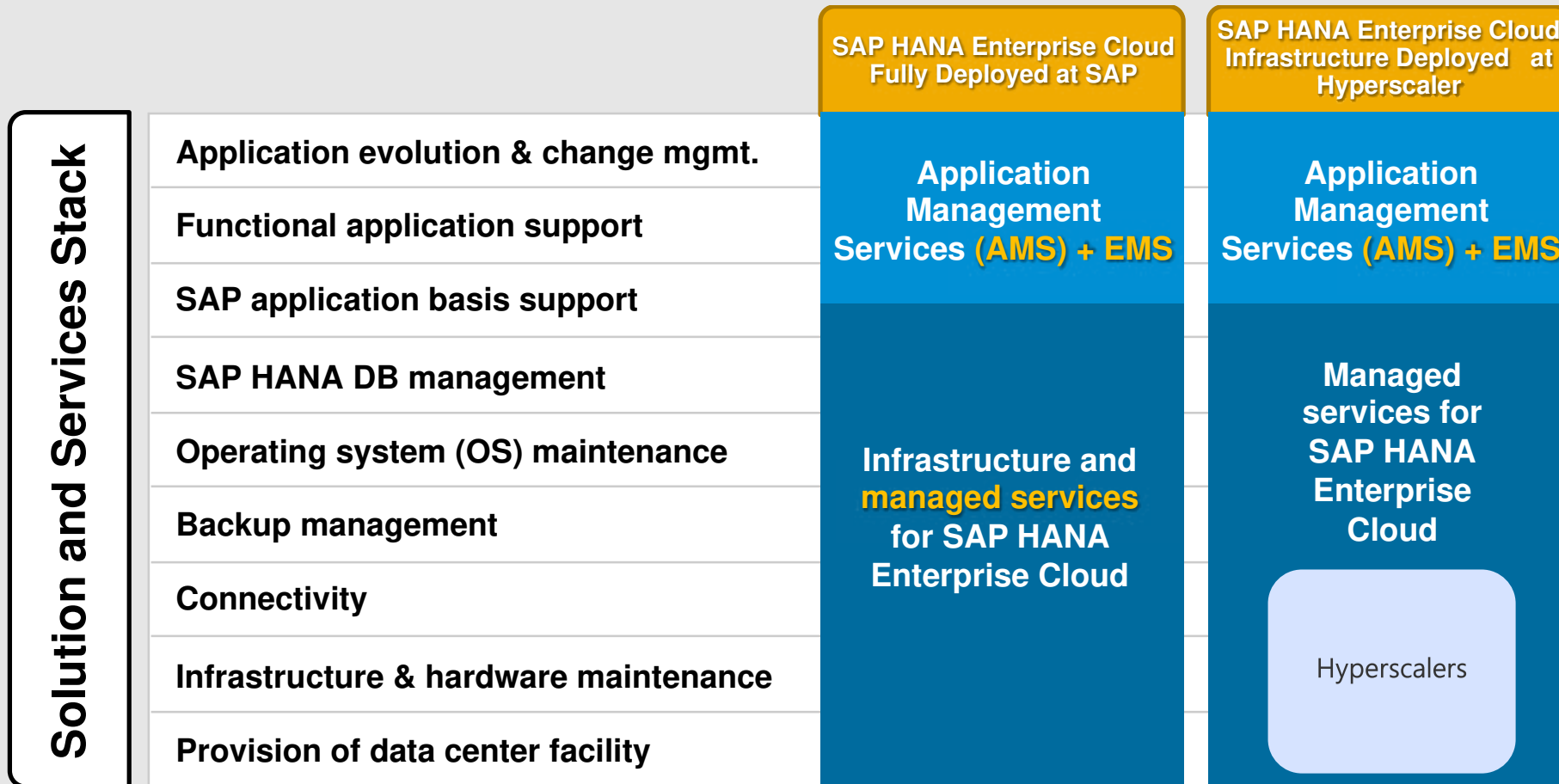- ✓ Co-located engineering & aligned sales and marketing teams

Microsoft
Infrastructure Transformation

Azure

SAP
Application Transformation (Digital Core)

SAP HANA

A Modern IT Foundation

Microsoft | SAP

SAP HANA Enterprise Cloud

Solution and Services Stack

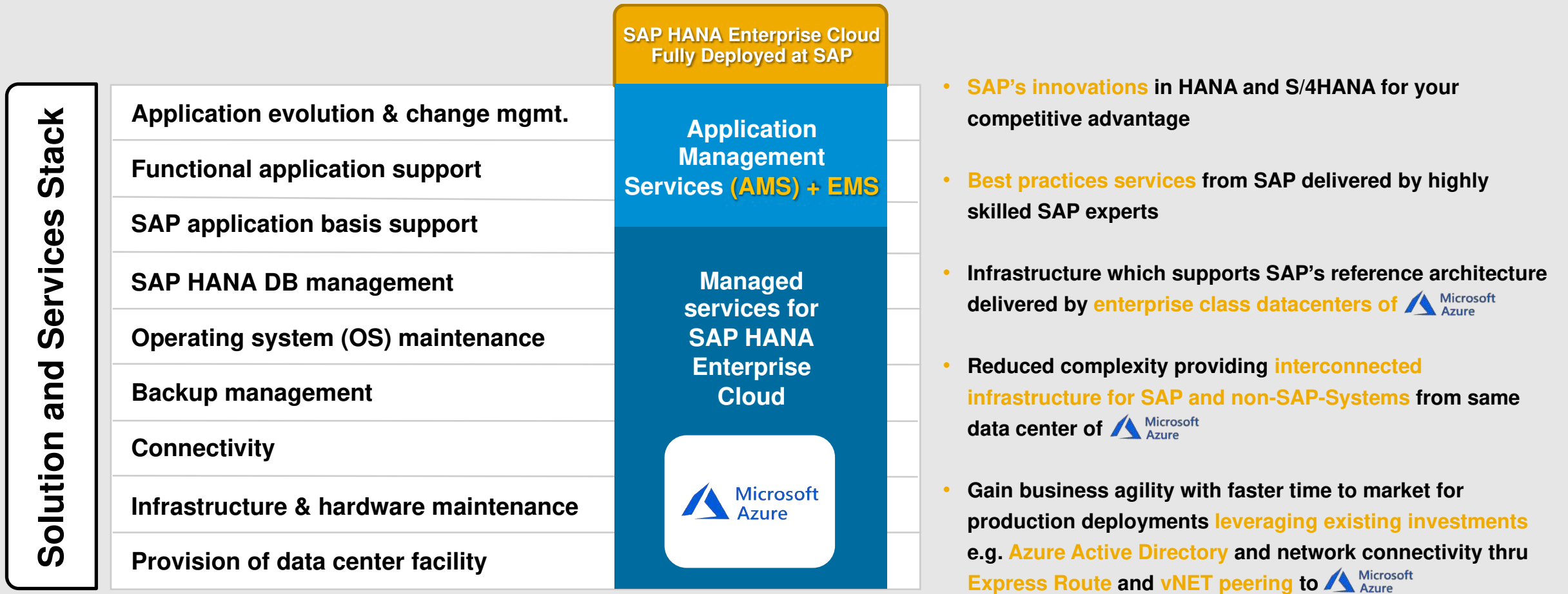| Solution and Services Stack	SAP HANA Enterprise Cloud Fully Deployed at SAP	SAP HANA Enterprise Cloud Infrastructure Deployed at Hyperscaler
Application evolution & change mgmt.	**Application Management Services (AMS) + EMS**	**Application Management Services (AMS) + EMS**
Functional application support		
SAP application basis support		
SAP HANA DB management	**Infrastructure and managed services for SAP HANA Enterprise Cloud**	**Managed services for SAP HANA Enterprise Cloud**
Operating system (OS) maintenance		
Backup management		
Connectivity		
Infrastructure & hardware maintenance		Hyperscalers
Provision of data center facility		

SAP delivers HANA Enterprise Cloud Managed Services and Support to the same high standard of service on hyperscale clouds, than we deliver on our own datacenters.

Microsoft | SAP

Introducing SAP HANA Enterprise Cloud with Azure
A premium managed cloud solution that delivers a New IT Foundation

Solution and Services Stack

- Application evolution & change mgmt.
- Functional application support
- SAP application basis support
- SAP HANA DB management
- Operating system (OS) maintenance
- Backup management
- Connectivity
- Infrastructure & hardware maintenance
- Provision of data center facility

SAP HANA Enterprise Cloud Fully Deployed at SAP

Application Management Services (AMS) + EMS

Managed services for SAP HANA Enterprise Cloud

Microsoft Azure

- **SAP's innovations** in HANA and S/4HANA for your competitive advantage

- **Best practices services** from SAP delivered by highly skilled SAP experts

- Infrastructure which supports SAP's reference architecture delivered by **enterprise class datacenters of** Microsoft Azure

- Reduced complexity providing **interconnected infrastructure for SAP and non-SAP-Systems** from same data center of Microsoft Azure

- Gain business agility with faster time to market for production deployments **leveraging existing investments** e.g. **Azure Active Directory** and network connectivity thru **Express Route** and **vNET peering** to Microsoft Azure

Microsoft | SAP

HANA Enterprise Cloud with Azure availability

Americas

- ✓ US East, East 2, West 2
- ✓ Canada East, Central
- ✓ Brazil South

EMEA

- ✓ Europe North, West
- ✓ UK West, South

APJ

- ✓ Singapore
- ✓ Australia East, Central, Central 2
- ✓ Japan East, West
- ✓ Korea Central
- ✓ India South, Central

Further regions / countries of interest to SAP are under joint evaluation for enablement in the future

Including the new Swiss locations

Microsoft | SAP

Office 365 Launch Services
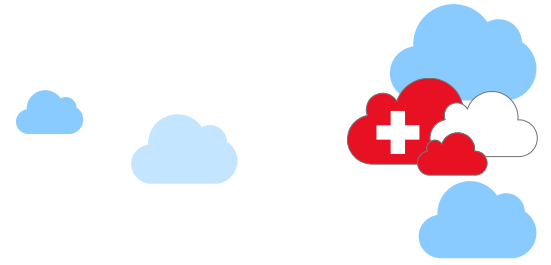
- Core customer data at-rest stays within Switzerland for the following services:
  - Exchange Online mailbox content (e-mail body, calendar entries, and the content of e-mail attachments)
  - SharePoint Online (site content and files stored within that site)
  - OneDrive for Business (uploaded files)

- Information on tenants move: http://aka.ms/move

Trust Center

New and Archived Audit Reports

Use these reports to stay current on the latest privacy, security, and compliance-related inf

Archived Compliance Reports   FedRAMP Reports   GRC Assessment Reports

Document	Description
Azure - ISO 27001 and 27018 Assessment Report - 11.2.2017	Third party independent audit assessment report fiscal year 2018.
Azure - ISO 27001 Certificate - 11.2.2017	This documents details scope of ISO 27001 audit
Azure - ISO 27001 and ISO 27018 - Statement of Applicability - 11.2.2017	This documents details scope of ISO 27001 and IS Operations.
Azure - ISO 27018 Certificate - 11.2.2017	Certificate demonstrating Azure's compliance wit
Office 365 - Germany ISO 27001, ISO 27018, and ISO 27017 Audit Assessment Report Year 2018.pdf	Third party independent audit assessment report 27001 - Information Security Management Stand 27018 - Code of Practice for Protecting Personal
Azure - CSA STAR Certificate - 2.12.2018	Certificate demonstrating Azure's compliance wit
Office 365 - Information Security Management System (ISMS) manual 2017.docx	The Office 365 Information Security Management with ISO IEC 27001:2013, ISO 27017:2015, and ISO herein are mappings and references linking the c activities to relevant ISO IEC 27001:2013, ISO 270 Controls.
Office 365 - ISO 27001, 27017, and 27018 ISMS Statement of Applicability (SOA) 2017.xlsx	ISMS Statement of Applicability (SOA) for Office 3 Security Management Standard, ISO 27017 - Cod Practice for Protecting Personal Data in the Cloud
Office 365 - ISO 27001, ISO 27018, and ISO 27017 Audit Assessment Report Year 2017.pdf	Third party independent audit assessment report Information Security Management Standard, ISO Code of Practice for Protecting Personal Data in t
Visual Studio Team Service (VSTS) ISO 27018 Certificate of Registration 2017.pdf	Visual Studio Team Service (VSTS)'s achievement procedures are robust and in line with its high sta

📄 PDF	**Azure - ISO 27018 Certificate of Registration**
📄 W	**Azure - ISO Assessment Residual Risk Statement v5.0**
📄 PDF	**Azure - FY17 ISO 27017 Assessment Report**
📄 PDF	**Azure - Microsoft FY17 ISO 20000-1 Assessment Report**
📄 PDF	**Azure - FY17 - ISO 20000-1 Certificate**
📄 PDF	**Azure - FY17 ISO 27017 Statement of Applicability**
📄 PDF	**Azure - FY17 ISO 20000-1 Statement of Applicability**
📄 PDF	**Azure - FY17 ISO 27017 Certificate**
📄 PDF	**Azure - CY17 ISO 27001 Certificate - IS 577753**

Public Cloud in Swiss Financial Sector

SwissBanking — Swiss Bankers Association

Secure cloud banking: SBA guidelines pave way towards future

Basel, 26th March 2019 – Swiss banks are very interested in the subject of cloud computing, but they have so far been reluctant to migrate their data to the cloud. This is because certain questions regarding the legal and regulatory frameworks remain unanswered. The SBA has therefore worked with member institutions, audit firms and cloud providers to draw up a set of guidelines containing recommendations intended to make it easier to move to the cloud. The guidelines, together with a video explaining cloud banking, are being published on 26 March 2019.

pwc

### Taking Swiss private banking to the cloud

21 Dec 2018

by Dr. Marcel Tschanz
Partner Advisory, PwC Switzerland

In general, from a legal and regulatory perspective, there is no 'showstopper' regarding the use of cloud business models by banks. However, specific risk considerations and contractual agreements may influence individual bank's cloud strategies.

Ongoing Momentum (1/2)
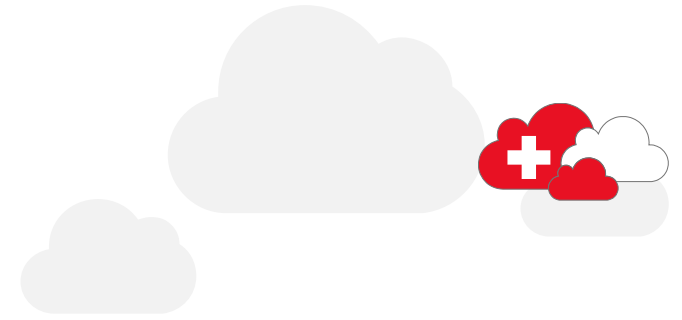
- "The possibility of storing and processing data within the Swiss legal area in the MSFT cloud is attractive. A compliance evaluation of the cloud project will show customers by how much the compliance related hurdles in their specific application case have been lowered."

  – Thomas Bolliger, Partner, Head of Information Governance & Compliance, KPMG Switzerland

- "Microsoft Azure allows us to focus on the core of the business – sales and development, leaving all IT infrastructure management to Microsoft specialists. With new hosting facilities of Microsoft in Switzerland, we will be able to further expand our business, bringing innovation even to most conservative Swiss financial institutions."

  – Chris Gogol, Founder and CEO, WealthArc

Ongoing Momentum (2/2)
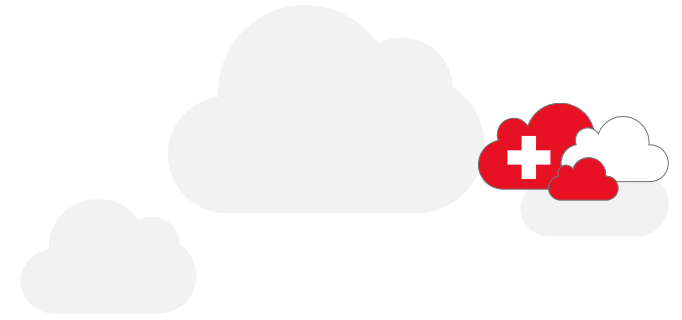
- "We welcome Microsoft's decision to offer cloud services in Swiss data centers. These are a key complementary component of Swisscom's cloud product portfolio. Microsoft's decision reinforces the importance and momentum of the cloud market in Switzerland. This will enable us to integrate and manage our services relating to Microsoft products even more comprehensively for our customers."
    – Egon Steinkasserer, Chief Product Officer Enterprise Customers, Swisscom

- "Thanks to the Cloud, our customers can break new ground, offer new services and be more successful. As a long-standing player, Microsoft enjoys great trust among Swiss companies. This is why more and more companies are placing their data with Microsoft. We are expecting the introduction of Swiss data centers to further strengthen this trend."
    – David Schneider, CTO, isolutions AG

Microsoft