

# Managed Services Hyperscaler

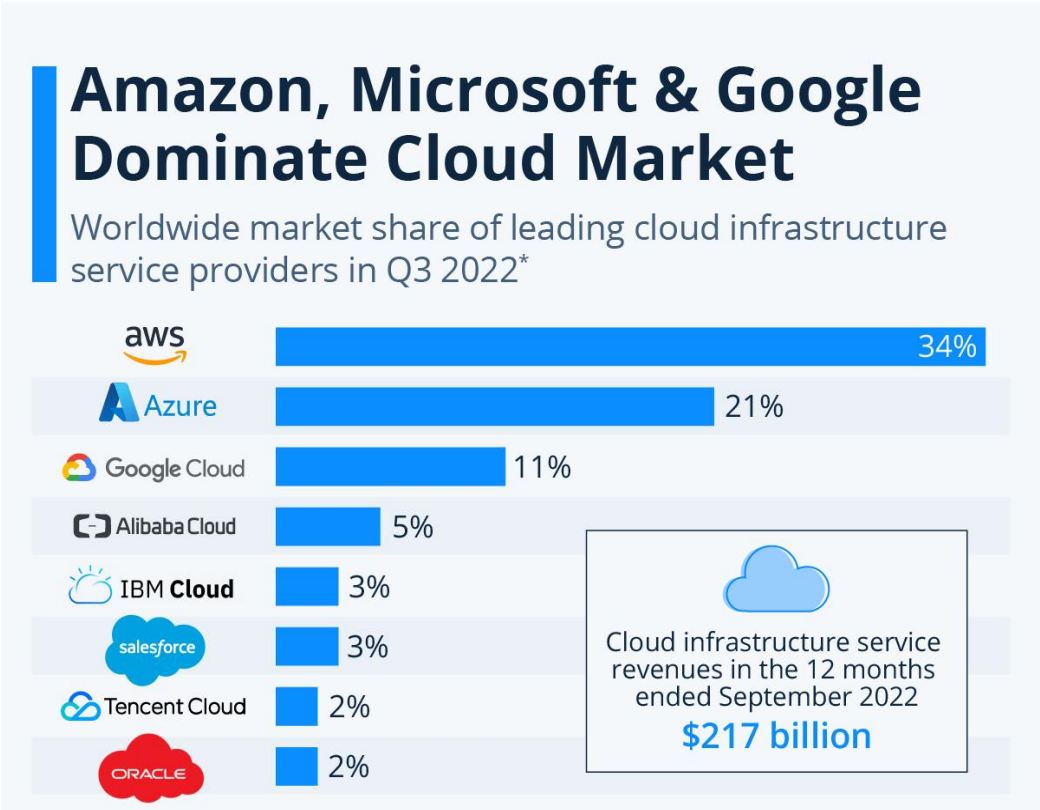
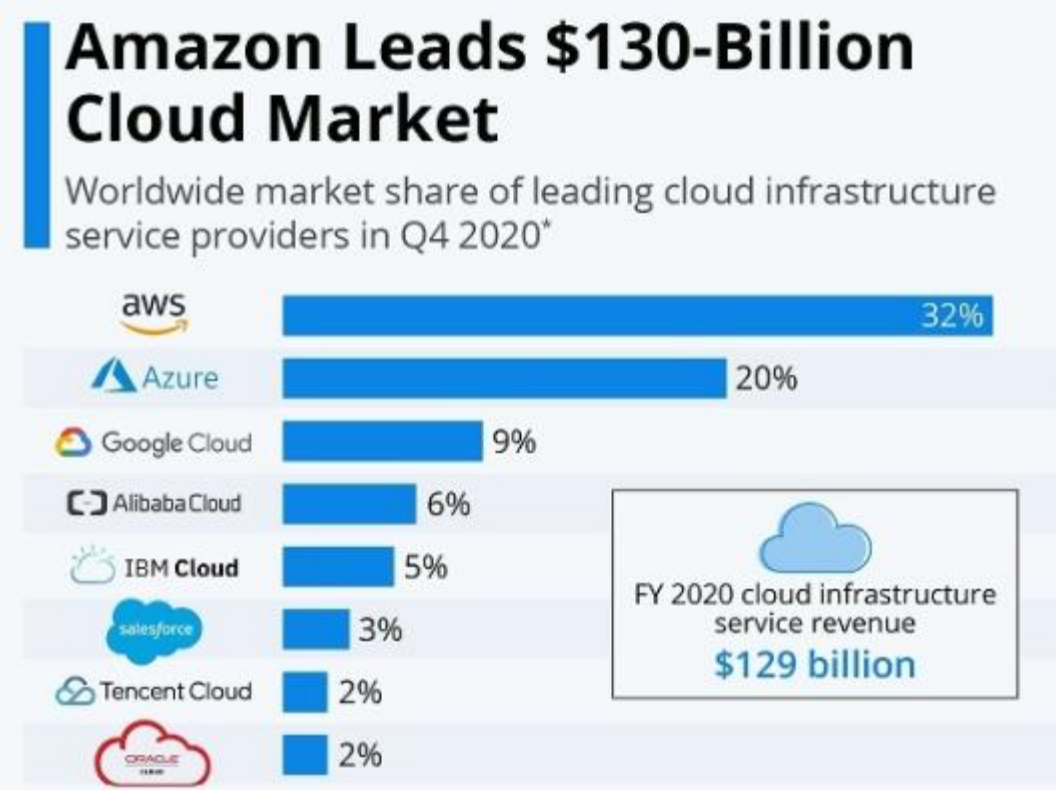
Heiko Röhr  
26<sup>th</sup>, 2023

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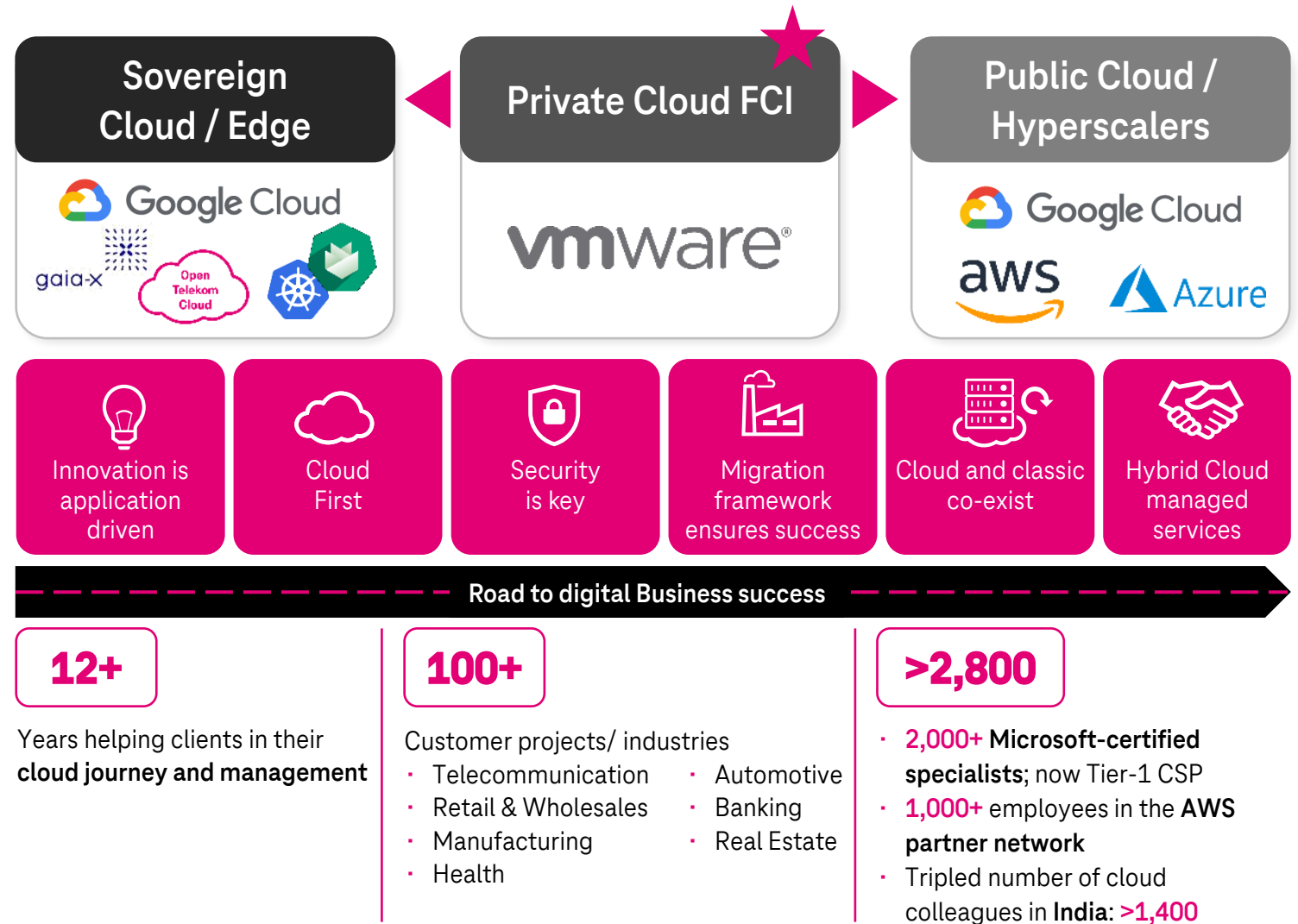


# Hyperscaler Market View

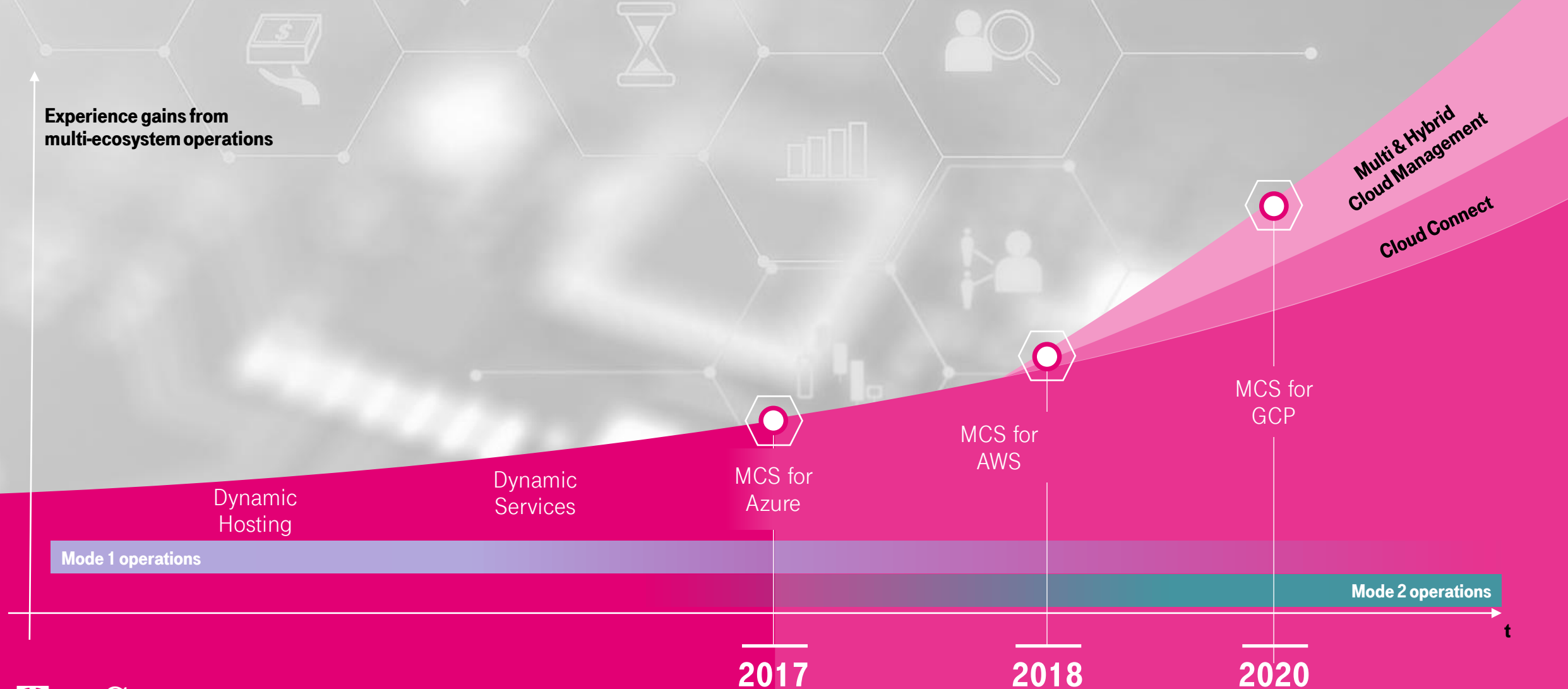


# Our Multi-Cloud approach as foundation for industry specific digitalization – 5 reasons

- 1** T-Systems is an agnostic partner who can manage all leading hyperscaler platforms - and operate Google Sovereign Cloud, FCI & OTC
- 2** Our USP – developing together with our clients, their digitization strategy from legacy – to cloud
- 3** Network and Security is part of our Genes
- 4** Zero Failure Migration – a reliable proven cloud migration service
- 5** Specialized in vertical , industry specific workloads and application delivery



# OUR JOURNEY TOWARDS MANAGED CLOUD SERVICES FOR MULTI-CLOUD CONSEQUENTLY CONTINUES.



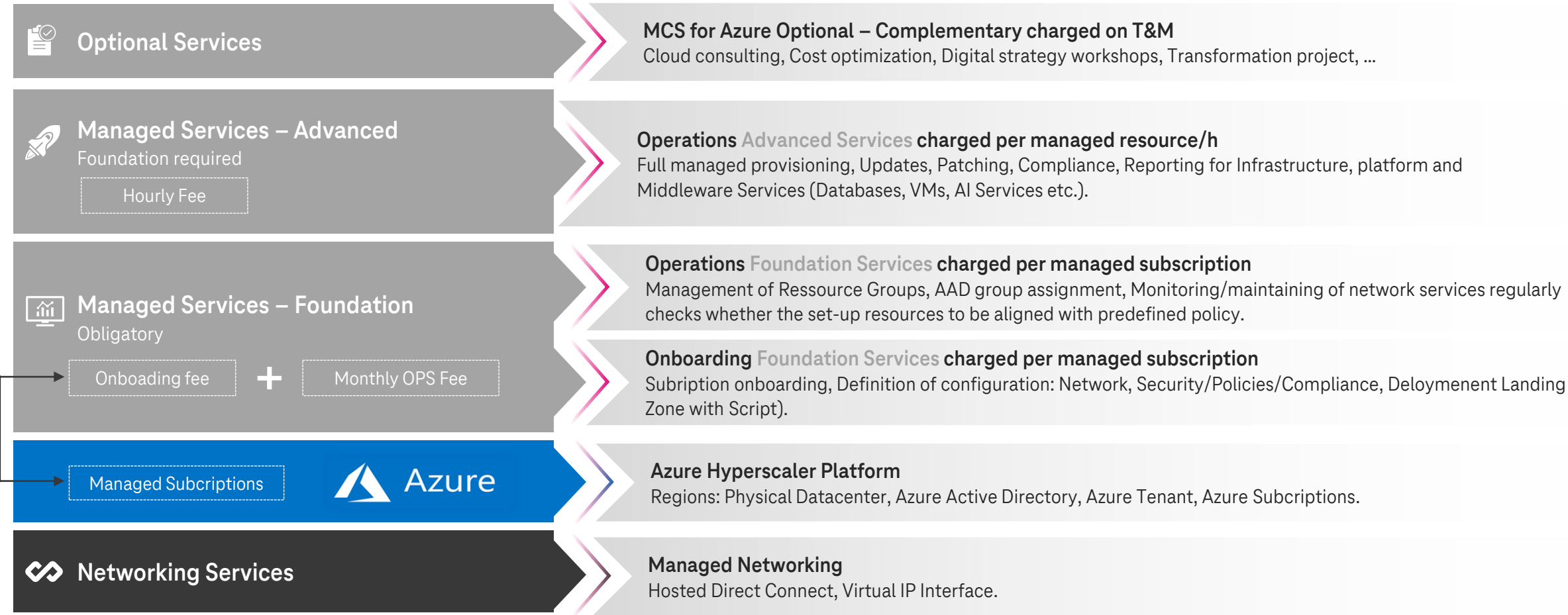


# Azure Manages Services

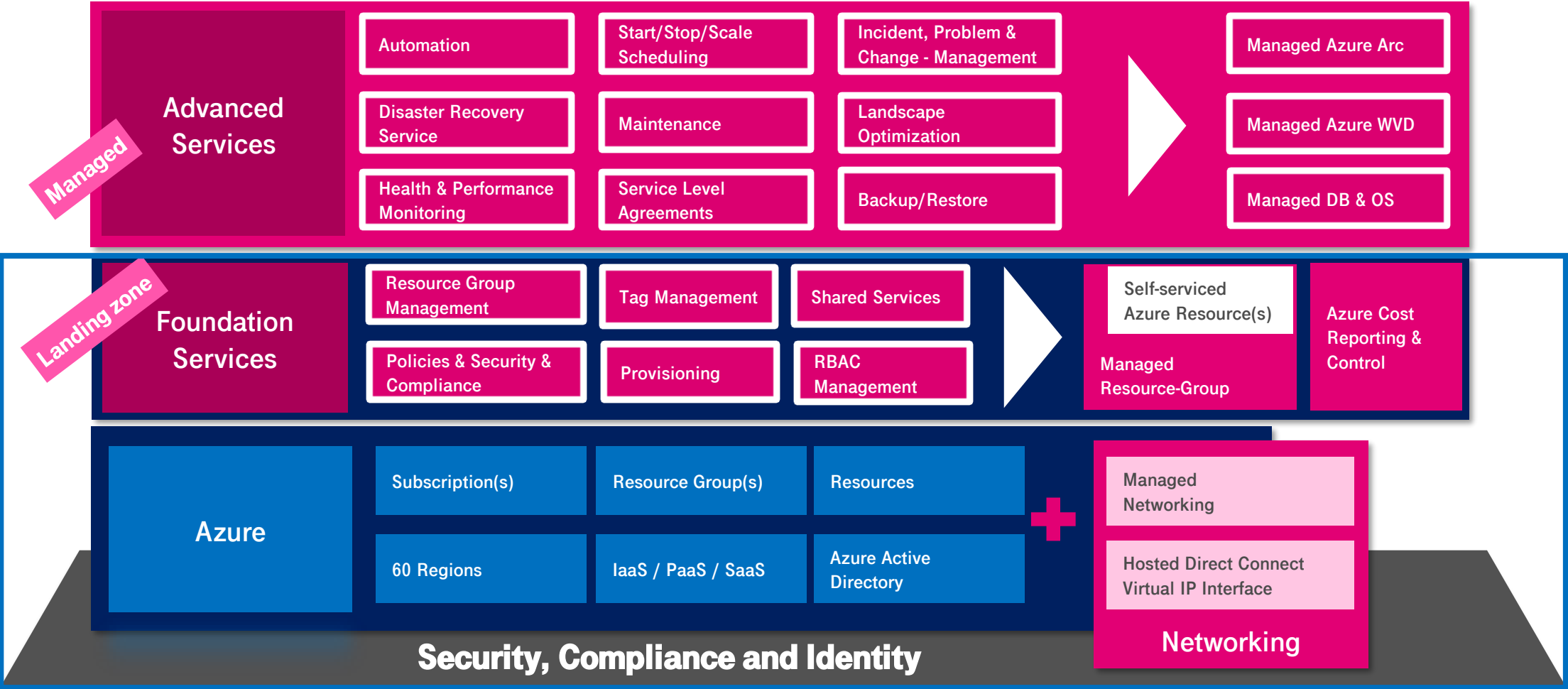
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# Managed Cloud Services for Azure - modules



# Managed Cloud Service on Azure



# Managed Cloud Services for Azure – Service classes

	 <b>Diamond</b> Advanced	Response time 30 min. Resolution time 2 hrs.		 24*7
	 <b>Gold</b> Advanced	Response time 1 hrs. Resolution time 7 hrs.		
	<hr/>			
	 <b>Silver</b> Advanced	Response time 9 hrs. Resolution time 18 hrs		 8*5
	 <b>Bronze</b> Advanced	Response time 18 hrs. Resolution time 36 hrs.		
 <b>Community</b> Advanced	Response time 45 hrs. Resolution time N/A			



# Microsoft Azure Compliance

## Global

- Azure Policy Regulatory Compliance
- CIS Benchmark
- CSA Star Attestation
- CSA Star certification
- CSA Star self-assessment
- SOC (1,2,3)
- ISO 20000-1
- ISO 22301
- ISO 27001
- ISO 27017
- ISO 27018
- ISO 27701
- ISO 9001
- WCAG
- Etc...

## Europe

- EU GDPR
- EU Model Clauses
- Netherlands BIR 2012
- Spain ENS High
- UAE DESC
- EK Cyber Essentials Plus
- UK G-Cloud
- UK PASF
- ASIP HDS
- NEN 7510
- NBB and FSMA
- KNF
- APRA
- AMF abd ACPR
- Etc...

## Germany

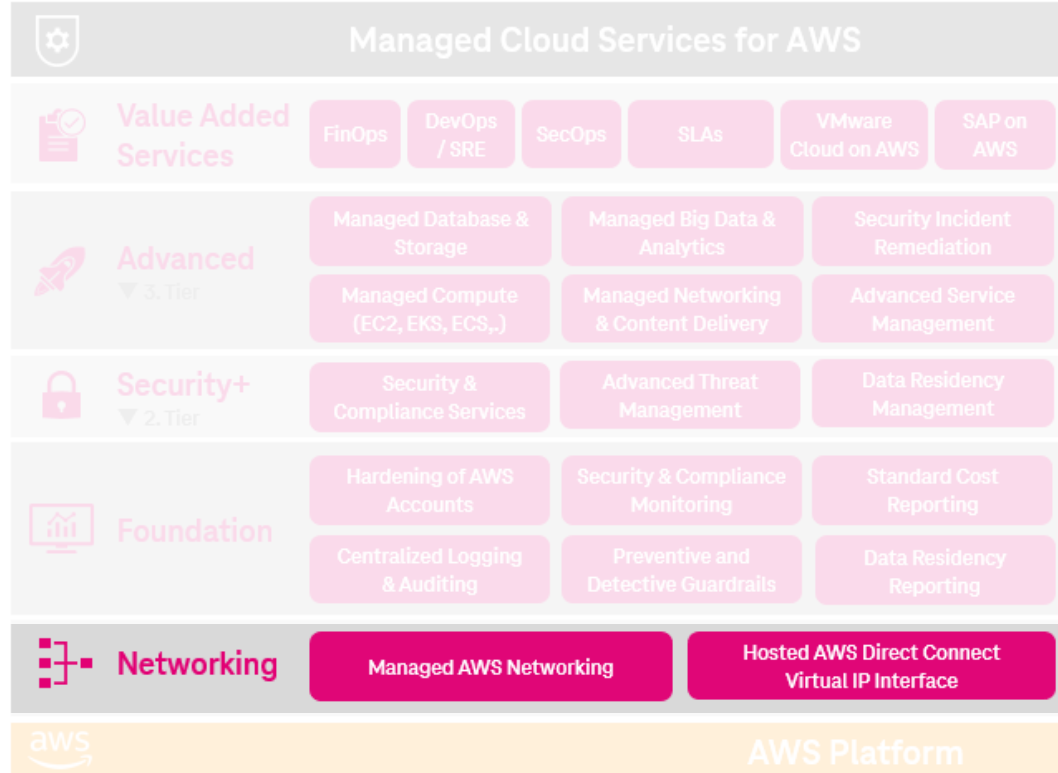
- Germany C5
- GDPR



# AWS Manages Services

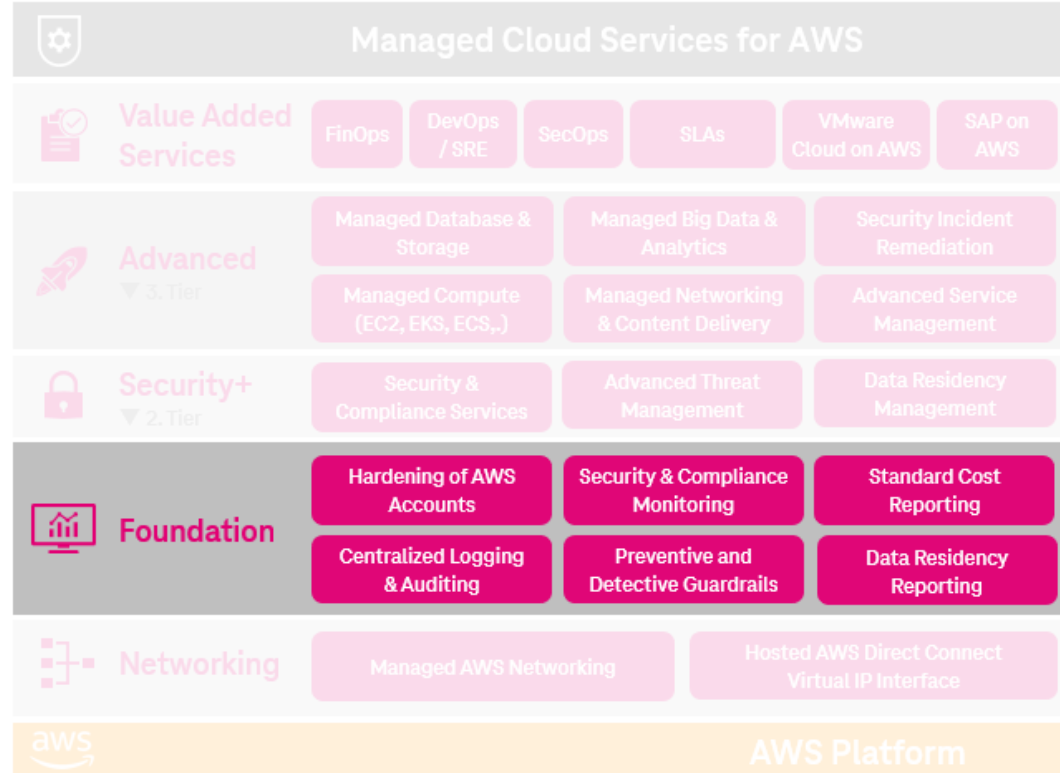
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## Managed AWS Networking by T-Systems

- Robust, private and reliable connection between AWS networks and client networks
- End-to-end supported connection, both in the cloud as well as in combo with traditional networking products from T-Systems, DT, or 3rd Party
- Highly integrated network product with operational monitoring

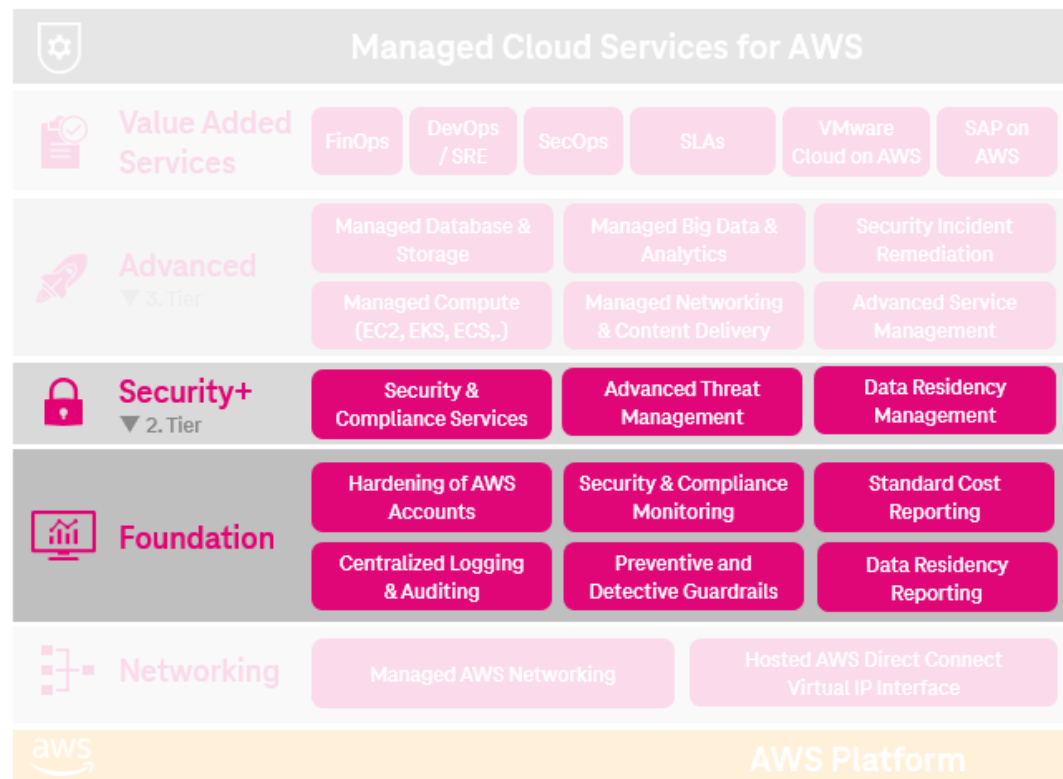


**Focused on security, compliance monitoring and data privacy requirements**

- Hardened Identity and Access Management
- Privacy and Security Assessment (PSA) Approved
- Preventive and Detective Guardrails
- Centralizing all logs activity to enable traceability and forensic
- Monitoring & Notifications, Audit Logging, Threat Detection, Managed Storage Encryption

**Support for 24/7 Operations**

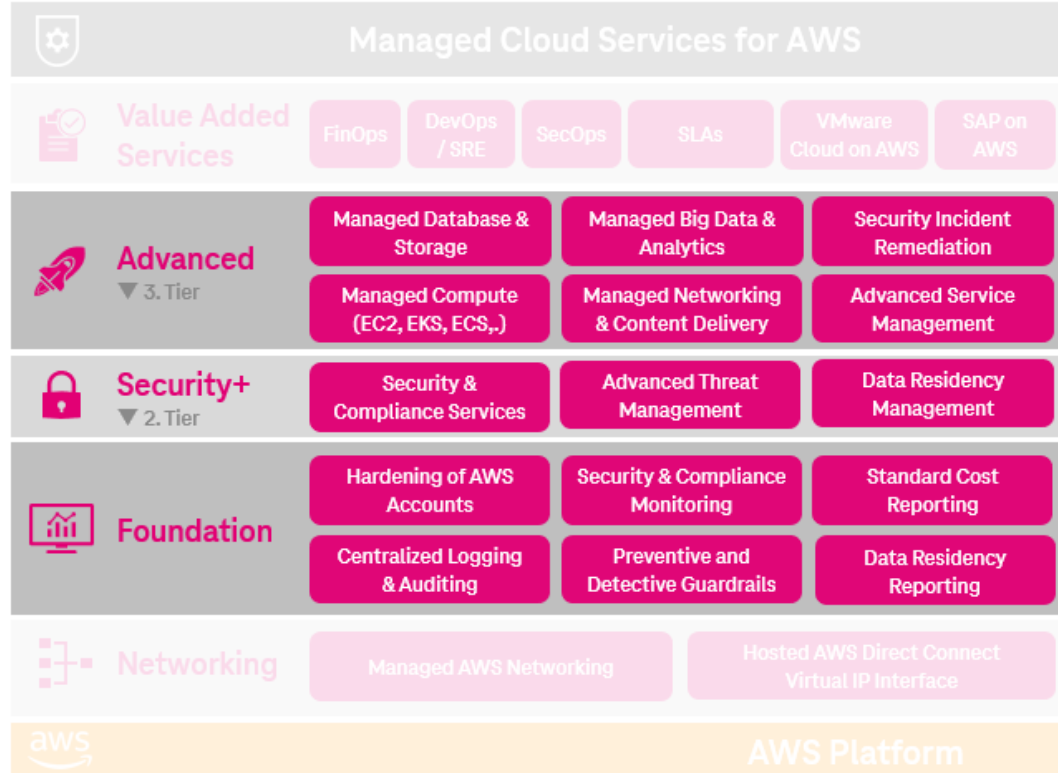
**Contractual Management and consolidated billing of AWS for the client**



## Create Transparency and security/compliance guardrails about Customer Data

- Trusted Cloud Landing Zone
- Management of Data Residency within the EU
- European-based customer support with T-Systems as Managed Service Provider
- Data Confidentiality with T-Systems as the custodian of the cryptographic methods used in the cloud





## Enhancement of Foundation

**Managed AWS resources (Database, Storage, Networking, Compute, ...) with Monitoring, Patch Management, Backup, Service Scheduling**

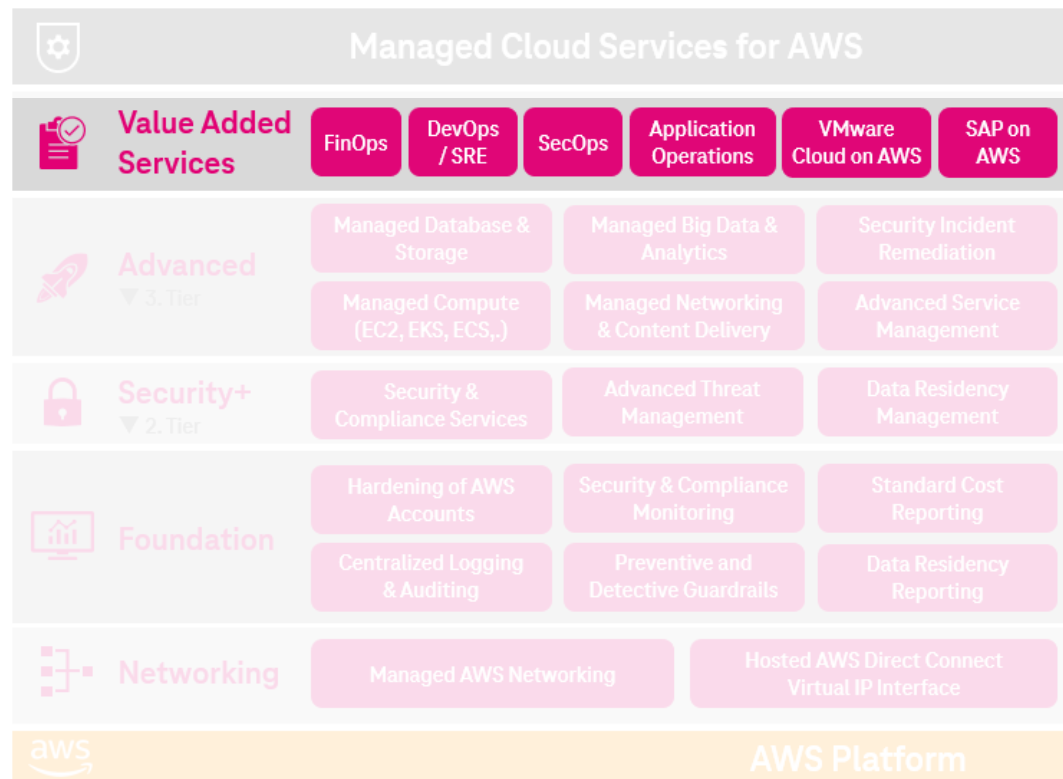
## Security & Compliance Management

e.g. Auto remediations, Anti-Virus protection, Vulnerability Scan

**Transparency on AWS expenses with selective reporting on cost expenditures**

**Integrated 24x7 Incident Management with technical support for AWS**

# Value Added Services



**FinOps** – Cost optimization for all workloads running on AWS accounts

**DevOps/SRE** – Maximizing the stability of the productive environment


**SecOps** - Security of the productive environment

**Full workload management** with AWS Well Architected benchmark

SAP HANA, VMware Cloud, Migration, Big Data & Analytics, Data Warehouse Modernization, ....

# Data protection as a managed service

Roadmap Topic

Managed Data Protection	Foundation		Security+	Advanced
	 Data Confidentiality	Managed Storage Encryption	Data Confidentiality Consultancy Advanced Security Assessment Key Management as a Service External Identity Management as a Service	
	 Data Residency	Service Restrictions ( C5, SOC, PCI,...) Preventive and Detective Residency Guardrails Data Residency Reporting Regional Service Restriction	Data Residency Monitoring Data Residency Consultancy Data Residency Assessment	
	 EU-based Customer Support	EU based Managed Support by T-Systems	Partner-Led Enterprise Support *	
	 Trusted Cloud Landing Zone	Centralized Security and Compliance Monitoring Hardened Identity Management Preventive and Detective Guardrails Anomaly Detection Compliance Reporting Security Notifications Security Posture Report EU Cloud of Conduct Attestation	Hardened AMI based on CIS benchmark Federated Identity and Access Management (SSO) Attribute Based Access Control Compliance Auto Remediation PII Data Monitoring and Alerting Advanced Threat Management Anti-Virus & Anti-Malware Protection Security Dashboard Vulnerability Scan and Reporting Cyber defense center integration	Secured network connectivity * Container Security Landing zone based on Well Architected Framework Security Incident Management and Remediation Disaster Recovery Testing OS Patching & backup

confidential

\* Value Added Service

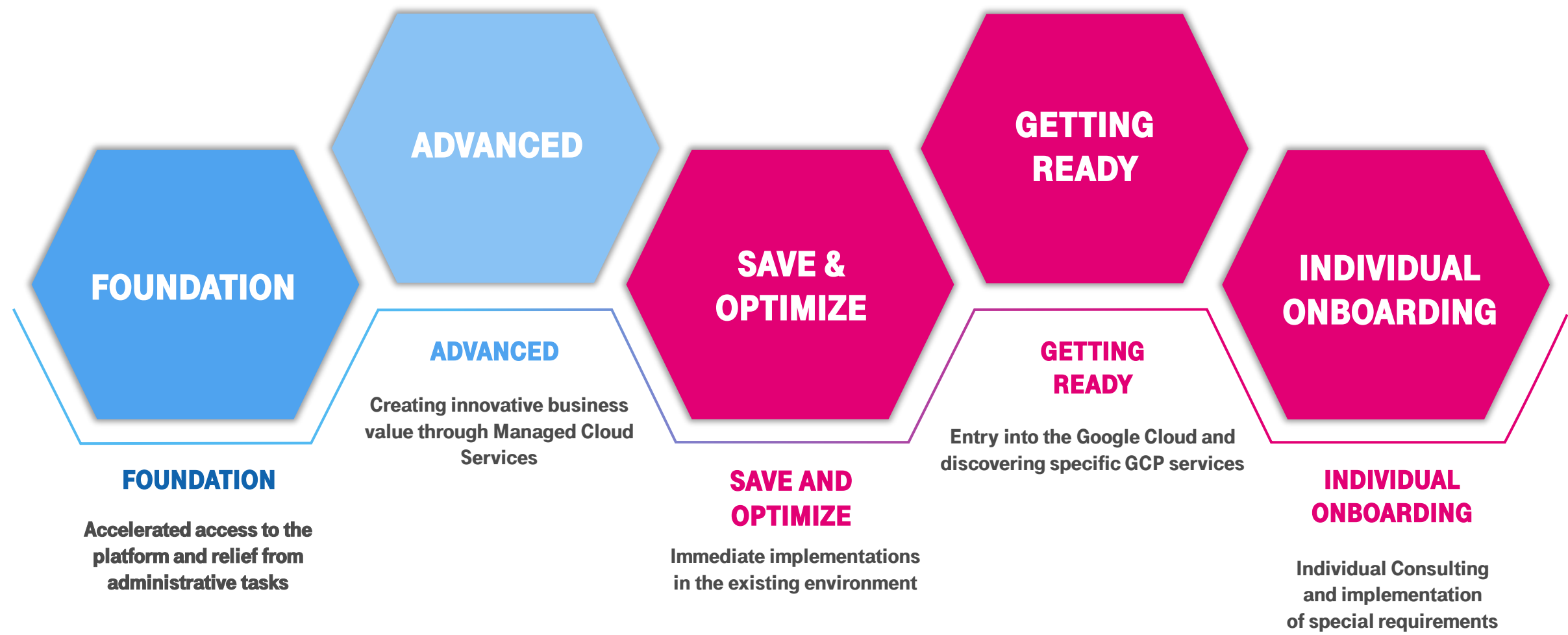
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# Google Manages Services und Sovereign Cloud

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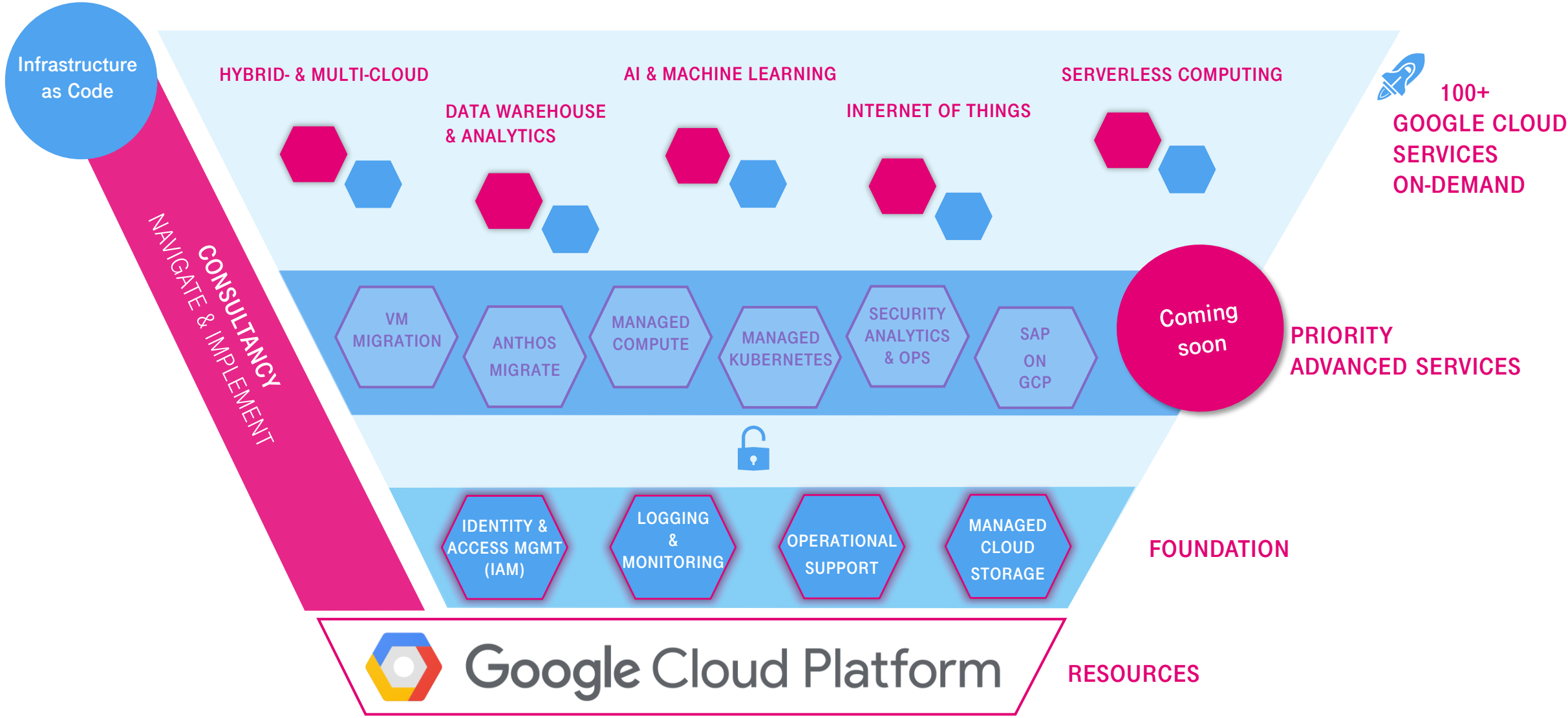
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# OUR GOOGLEOFFERING

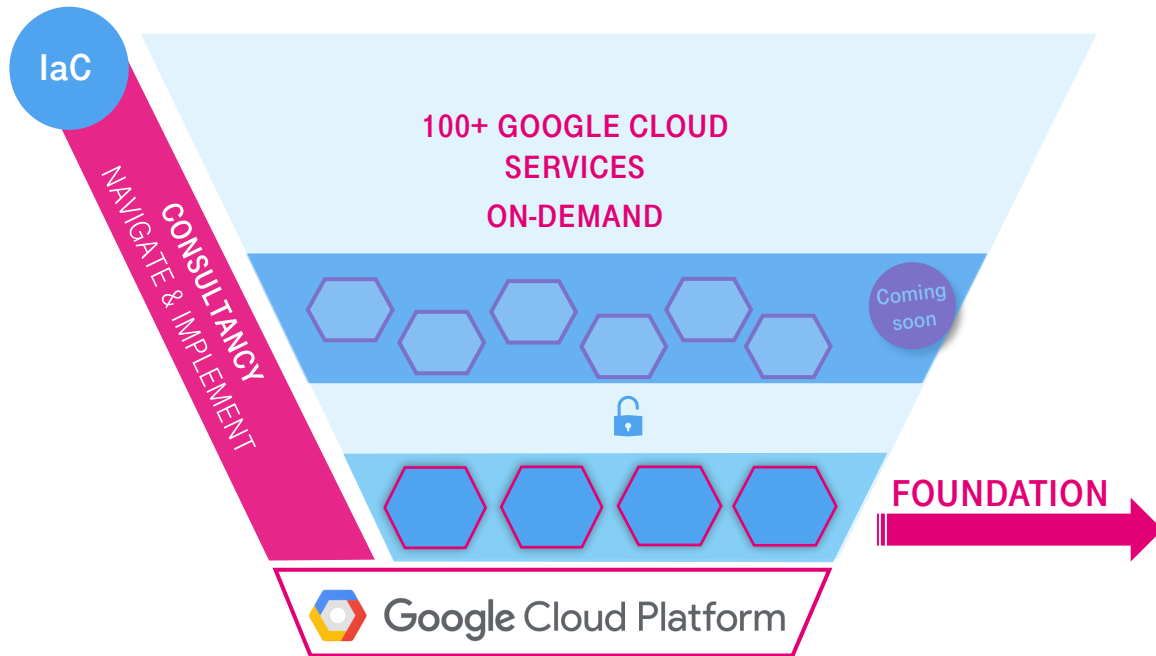




# MANAGED CLOUD SERVICES FOR GCP - OVERVIEW



# MCS GCP - FOUNDATION



## IDENTITY & ACCESS MGMT (IAM)

- **IAM** Managing security policies on users, roles and groups level
- **Dedicated GCP organizations** Setting up folder structure and project automation in a dedicated organization
- **Multi-factor Authentication and Password Policy** for access to GCP console
- **Corporate policies** at Org level

## LOGGING & MONITORING

- **Audit logging** Audit Logs for all GCP Services and centralized into a private and encrypted Storage Bucket
- **Centralized monitoring** Security Monitoring with an internal (TSI) operations account

## MANAGED CLOUD STORAGE

- **Data classification** by **key value** depending on their criticality and its related authorizations
- **Complete encryption** of all data regardless of access policies and authorizations

## OPERATIONAL SUPPORT

- **Operational Support** via **international Service Desk**
- **Incident** Tickets can be reported in German and English on a 24/7 basis. Events are processed according to their criticality
- **Change management** Create, change or delete: IAM group, IAM user, IAM role, IAM policy; reset IAM user password

GCP Managed Cloud Services to fulfill our multi cloud portfolio

# Die verschiedenen Stufen unseres Sovereign Cloud Angebotes

## T-Systems Sovereign Cloud powered by Google Cloud

### Sovereign Controls by T-Systems

basierend auf

### Google Public Cloud

Sovereign Controls durch T-Systems für die populärsten Google Cloud Services.  
Erfüllt Anforderungen an Datenspeicherort, Zugriffskontrolle und lokale Unterstützung.

**Live!**

### Supervised Cloud by T-Systems

basierend auf

### Google Supervised Cloud

Von T-Systems betriebene Google Cloud inklusive der Wartung.  
Erfüllt zusätzliche regulatorische Anforderungen an lokale Kontrolle.

### Hosted Cloud by T-Systems

basierend auf

### Google Distributed Cloud

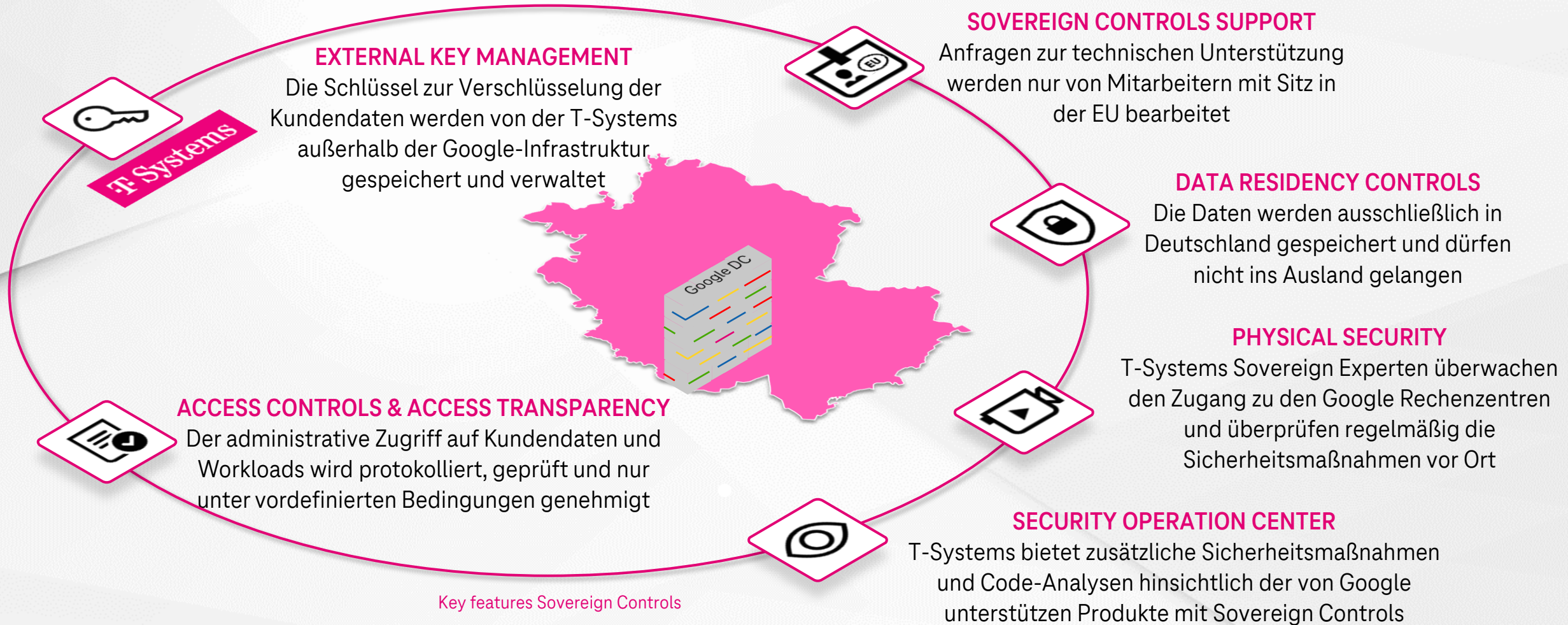
Vollständige operative Kontrolle und Unabhängigkeit durch eigenständige Hardware und Open Source basierte Software.  
Erfüllt höchste Anforderungen durch die fehlende Netzanbindung an Google Cloud. Die Open Source-Nähe ermöglicht den unabhängigen Weiterbetrieb im Extremfall.

sensibel

Daten

hochsensibel

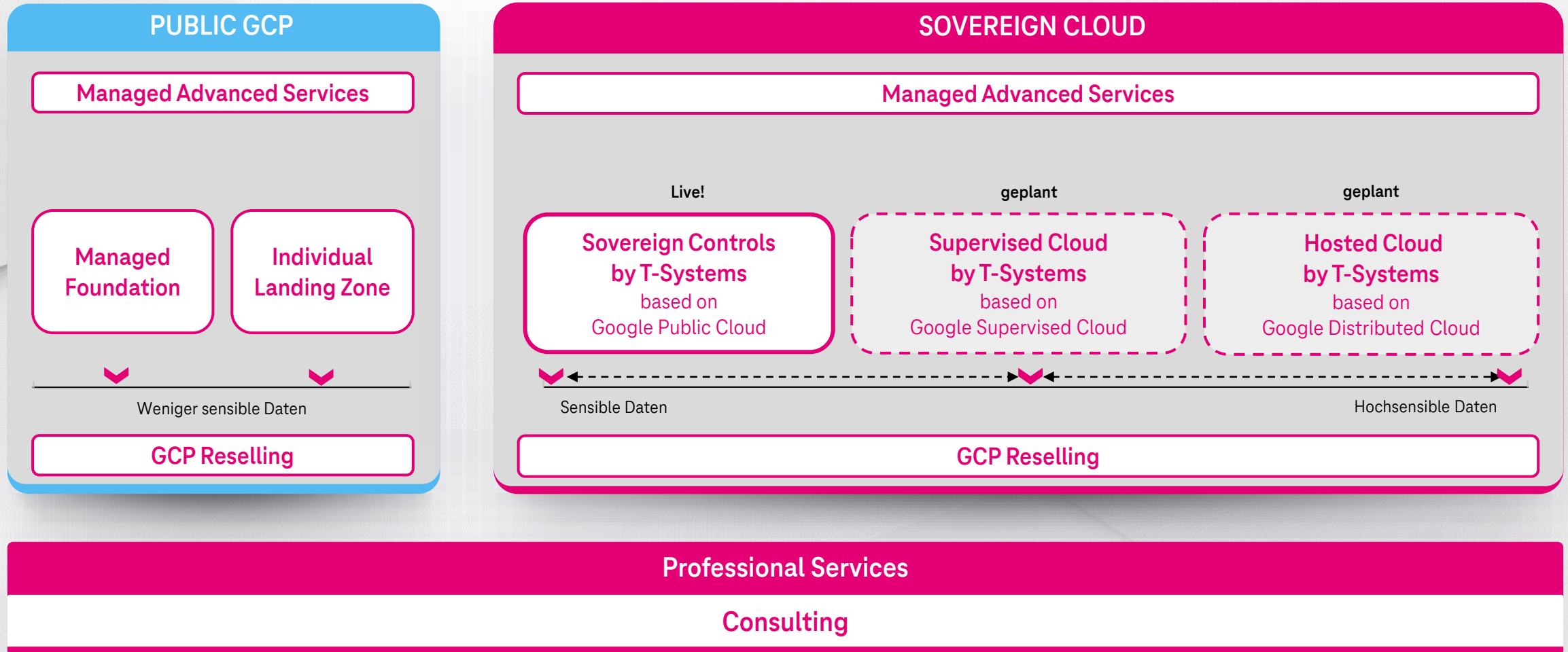
# Sovereign Controls by T-Systems





# Unser Google offering – eine Übersicht

Abhängig von der Sensibilität der Daten sind verschiedene Kombinationen möglich.







**Ganz herzlichen Dank**

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