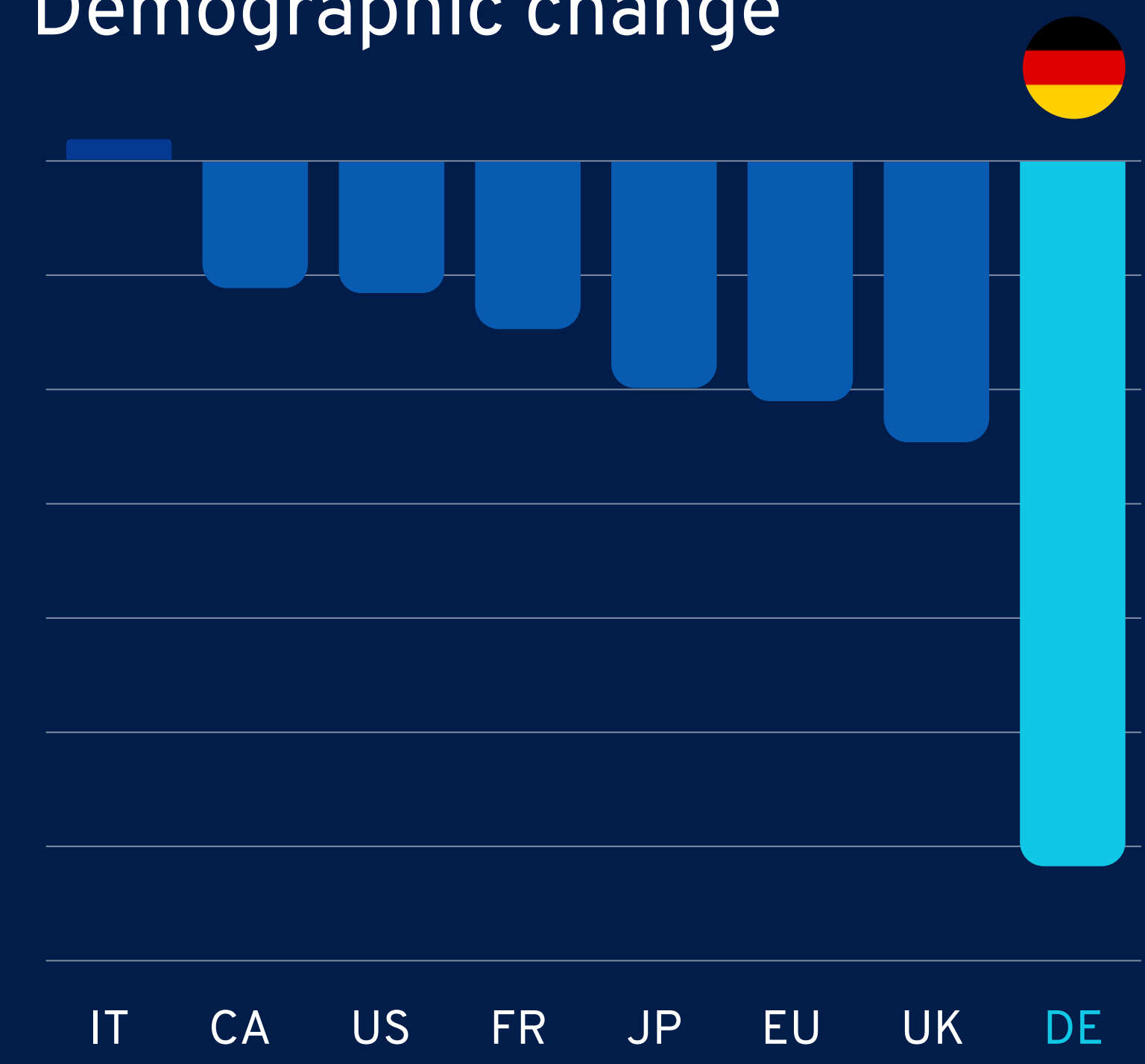


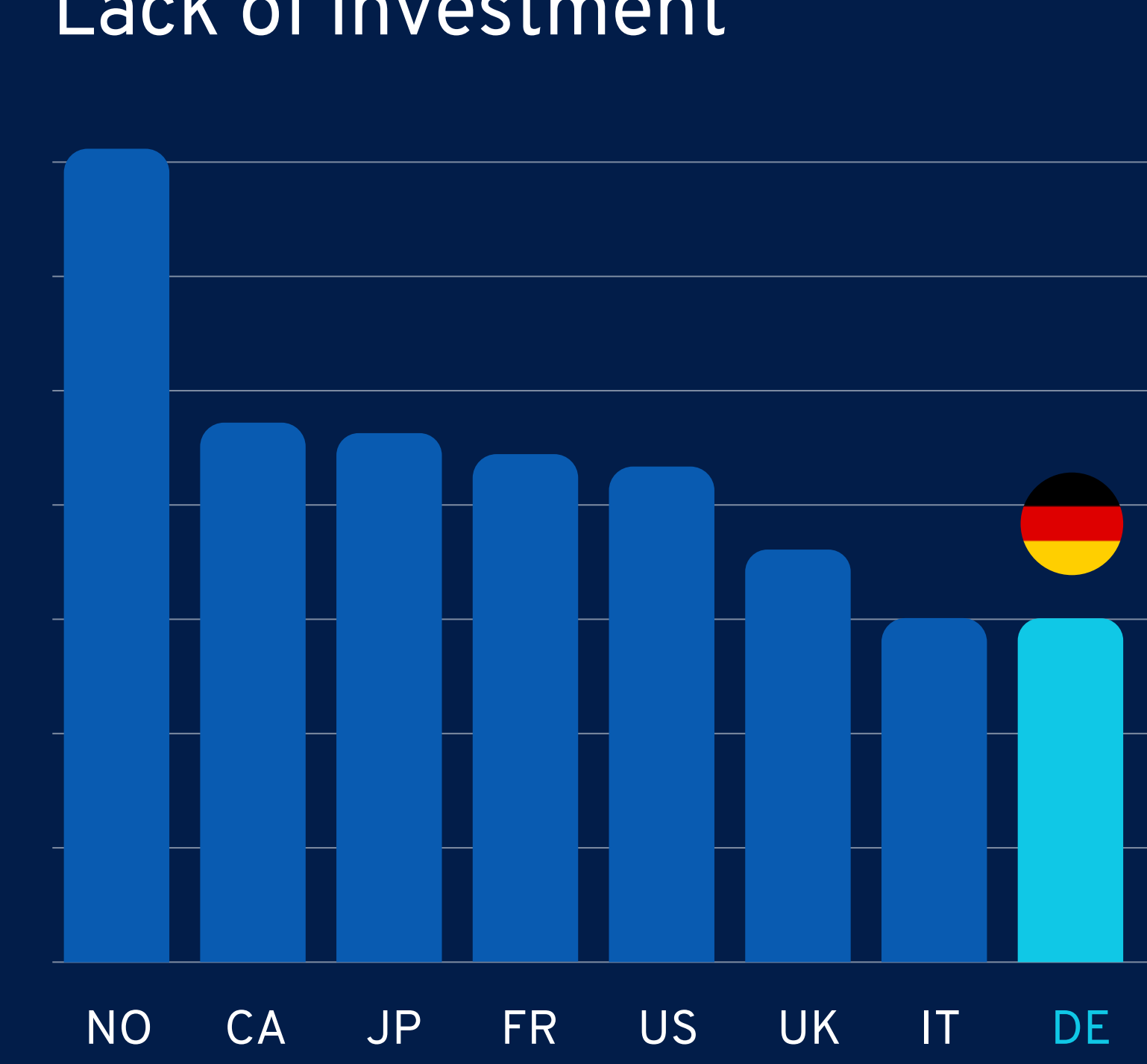
# Technology Keynote

Markus Noga  
CTO, IONOS

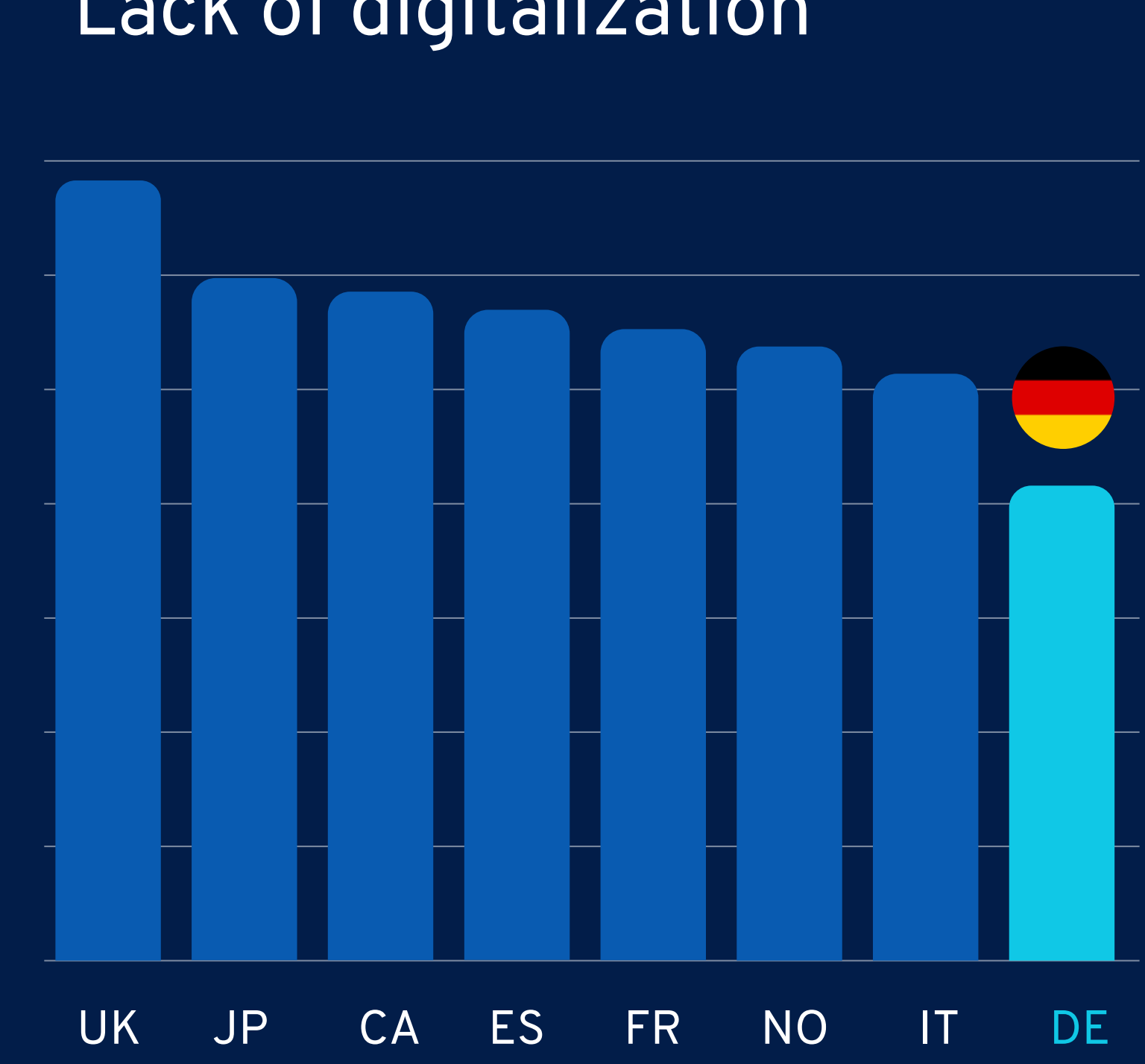
Demographic change



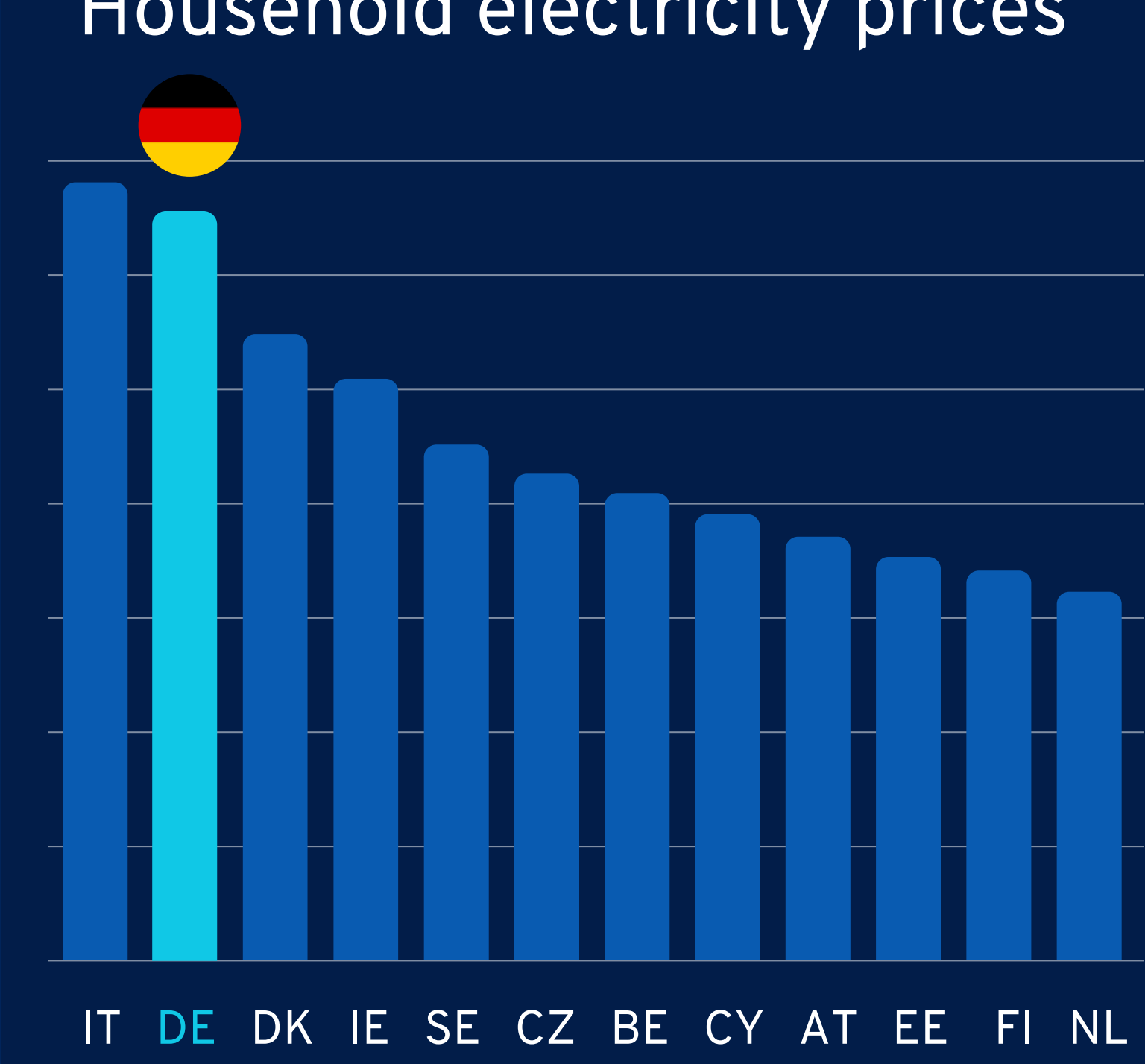
Lack of investment



Lack of digitalization



Household electricity prices





78%



Artificial  
Intelligence

81%



Cloud  
Computing

94%



Digital  
Sovereignty



# Artificial Intelligence





# IONOS AI Model Hub: Your multimodal sovereign AI

Leading open  
source models  
No vendor lock-in

Digitally sovereign  
German data center  
& GDPR-compliant

## AI Model Hub

Multimodal  
LLMs for text  
GenAI for image

Easy integration  
OpenAI compatible API

Use own data  
ChromaDB as  
vector database



# Transforming digital services

**Freiburg**   
IM BREISGAU

## Chatbot

How has the number of daycare places in Freiburg developed over the last three years?



The number of daycare places in Freiburg over the last three years:

2021: **3,407 daycare places**

2022: **3,460 daycare places**

2023: **3,826 daycare places**

Increased by a total of **419** places over the last three years.



# Multimodal platform for multiple use cases

IONOS SUMMIT





10

Cloud Locations

39

Cloud Services

100%

CO<sup>2</sup> neutral



# IONOS Cloud: twice as capable

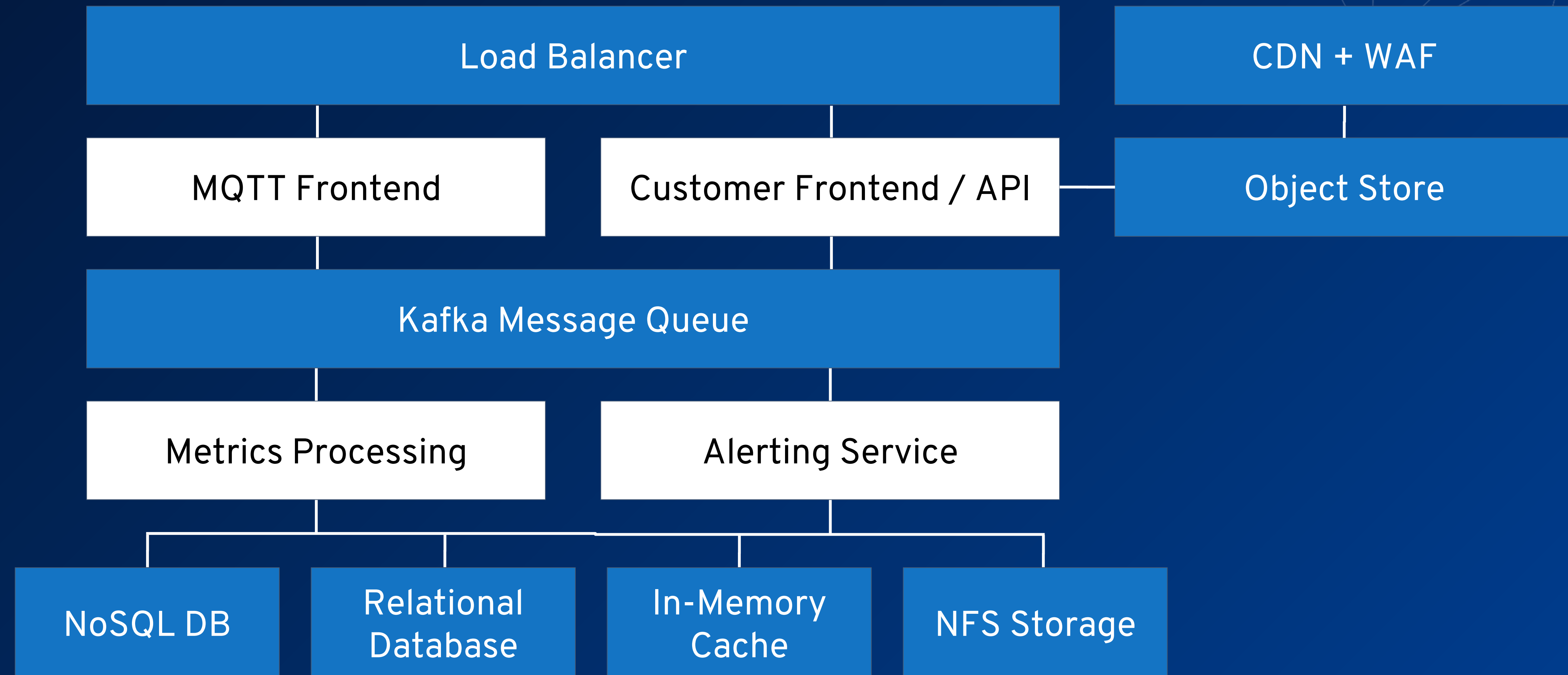
| Compute                 | Network                 | Traffic Processing    | Storage               | Data       | Platform           | Security           | AI                       | Partner Solutions    |
|-------------------------|-------------------------|-----------------------|-----------------------|------------|--------------------|--------------------|--------------------------|----------------------|
| Dedicated Cores         | IPv4 / IPv6             | HTTP Load Balancer    | Network Block Storage | PostgreSQL | Kubernetes         | MFA                | Multimodal Model Hosting | VMware Private Cloud |
| Public & Private Images | DNS                     | Layer 4 Load Balancer | Local Block Storage   | MongoDB    | Container Registry | Container Scanning | Vector DB                | Managed Stackable    |
| Cubes (VPS)             | DDoS Protection         | VPN Gateway           | Object Storage        | MariaDB    | Logging aaS        | Audit Log          |                          | Managed GitLab       |
| Virtual CPUs            | Cross Connect           | API Gateway           | Backup                | Redis      | Monitoring aaS     | Network Flow Logs  |                          |                      |
| VM Autoscaling          | NAT Gateway             | CDN with WAF          | File Storage (NFS)    | Kafka      |                    |                    |                          |                      |
|                         | Network Security Groups |                       |                       |            |                    |                    |                          |                      |

 Some new features in early availability



# Solar IoT metrics application with **Kafka**

Build truly cloud-native applications.





# IONOS *PRO* *α* *LPHA*

Tomasz Owczarek

Head of Cloud Operations



# IONOS Cloud Future Evolution & Vision

| Compute                | Network                 | Traffic Processing   | Storage             | Data                           | Platform             | Security               | AI                   | Partner Solutions |
|------------------------|-------------------------|----------------------|---------------------|--------------------------------|----------------------|------------------------|----------------------|-------------------|
| CPU & GPU Bare Metal   | Egress Gateway          | Global Load Balancer | Performance Classes | Full Text DB (e.g. OpenSearch) | Send Email Service   | Identity & Access Mgt. | VM GPUs              | Partner Store     |
| Confidential Computing | Routers                 | Bastion Host         | Replication Classes | Time Series DB (e.g. InfluxDB) | Notification Service | Key Mgt. Service       | Kubernetes GPUs      | Managed Stackable |
| Function-as-a-Service  | SmartNICs               | VPN Gateway          | Object Storage      | Msg. Broker (e.g. RabbitMQ)    | Service Discovery    | Secrets Management     | Jupyter Notebooks    | Managed GitLab    |
| Container Instances    | Cross Connect           | API Gateway          | Backup              | Redis                          | Virtual Desktop      | Security Scanning      | ML Model Fine Tuning |                   |
| VM Autoscaling         | NAT Gateway             | CDN with WAF         | File Storage (NFS)  | Kafka                          |                      | TLS Certificates       |                      |                   |
|                        | Network Security Groups |                      |                     |                                |                      |                        |                      |                   |



Open  
Source

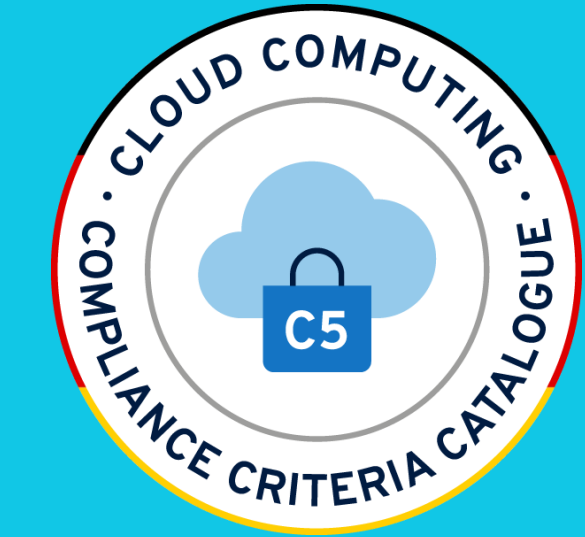
Multi Vendor  
Strategy

European  
Data Centers  
& Networks

Certifications  
& Attestations



# Certified secure



NEW



NEW



UPCOMING



# Trusted partner for public sector



Information und Technik  
Nordrhein-Westfalen





# Together into The Digital **Now**