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Telefónica's Network evolution: Softwarization and automation as a way to boost monetization and efficiency

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100 Years
Leading Change

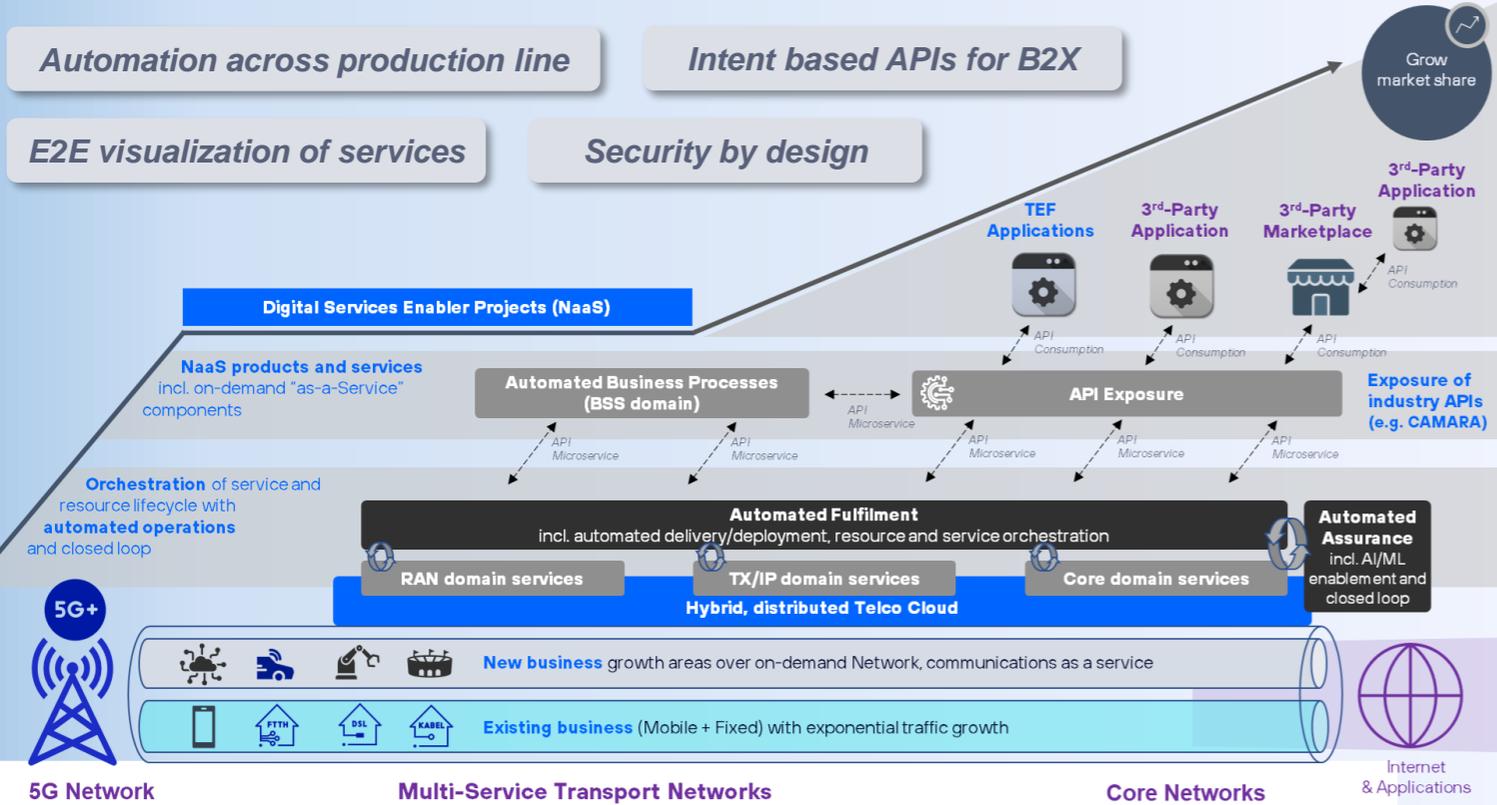


Telefónica's Network Evolution

Softwarization and Automation
as a way to boost monetization and efficiency

Telefonica Germany is forging ahead with 'Network of the Future' Program

Architecture:



Network of the Future

- Reduce **cost to serve**
- Open up **new ecosystems**
- **Faster TTM** with new WoW Plan – Build – Run NW
- **Architecture step change** (Cloudification, Softwarization)

Deliver 'Very good' network to our customers

- Step up 5G SA & Accelerate 2G refarming
- Commercial customers on cloud based 5G packet core from Q1 24

Telefonica framework of network transformation with 4 key levers



Network cloudification to achieve agility and high level of automation

And this is not a matter (only) of infra...



What does mean a Cloud native Network?

- CNF based in microservices over containers
- Automated testing and implementation (CI/CD/CT)
- Auto-scaling and auto-healing
- ISSU. No maintenance window. Canary testing
- All network functions exposed by APIs
- Compatible with E2E orchestration
- Multicloud (always containers K8) with no impact in performance

Public cloud as a possibility to be analysed from technical, regulatory, economical and strategic aspects.
Not ready yet

Network Cloudification & Softwarization

with E2E native AI & Automation

Priorities

- **Hybrid cloud approach.** Today we have VV, Telco cloud and public cloud as implemented alternatives
- So **Multicloud** automation of implementation (CI/CD/CT)
- **Exposition** of network capabilities (network APIs)
- New operational model. **Autonomous Network Journey**
- Increase level of **automation**. Reaching level 4 (TMForum) in 2025

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