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In addition to figures prepared in accordance with IFRS, Deutsche Telekom also presents alternative performance measures, including, among others, EBITDA, EBITDA margin, adjusted EBITDA, adjusted EBITDA after leases, adjusted EBITDA margin, Core EBITDA, adjusted EBIT, adjusted net income, free cash flow, free cash flow after leases, gross debt, net debt after leases and net debt. These alternative performance measures should be considered in addition to, but not as a substitute for, the information prepared in accordance with IFRS. Alternative performance measures are not subject to IFRS or any other generally accepted accounting principles. Other companies may define these terms in different ways.



Key messages

Differentiation

01

We delivered our CMD 2021 commitments. At the same time, we've invested for years into our capabilities creating a unique differentiation around: Global Scale, Sovereignty, Autonomous Networks and Al@T. Overall gross financial impact ~ €1 bn¹.

02

Global Scale

We scale product and technology platforms for fast introduction of products with great CX across regions. And ~ €0.2 bn network savings.



Sovereignty

We drive disaggregation and build own software solutions like RAN management. To control cost and experience in a volatile world.

Autonomous Networks

We move towards minimum-to-none human intervention. For lower cost, higher quality and energy efficiency – contributing to stable consumption, and B2B growth.

AI@T



We drive AI and automation, data informed, across all our processes, and for our customers. With significant impact on productivity and Customer experience. Gross financial impact ~ €0.8 bn.

¹ Full impact by 2027e, share of Capex: ~ €200 mn



Review 2020-2024e

We created a leading market position

DRIVING GREEN & LEGACY TRANSFORMATION

~ -9% Lower energy consumption¹

~ -€0.2 bn IT spend reduction

LEADING IN AUTOMATION

~ 70% Automated ticket resolution

~ 1 min rack provisioning from 1 day to 1 min

UNMATCHED NETWORK LEADER

#1 Leading 5G networks

#1 Bitsight security rating

STRONG CUSTOMER EXPERIENCE

> 45 mn

Customers use T Life/OneApp across our Group

#1 Best customer service Chatbot for years

~ 75% of routers can be managed remotely

¹ Electricity region GER & EU

T-MOBILE US

TECHNOLOGY & INNOVATION

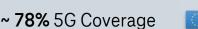
GROUP DEVELOPMENT

GROUP FINANCIALS

Unmatched network leader for our customers







~ **98%** 5G Coverage





Leveraged 5G for speed leadership and more efficient data production

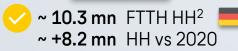
Commercial products, e.g.

Live video production

Network-as-a-service

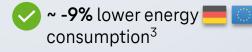
- 23 NW & CPaaS APIs live
- Venture with leading partners



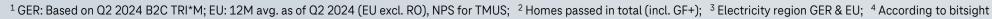






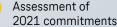


#1 Security Rating better than 97% of the peer group in Germany⁴













Scaling products with strong CX across regions

DIGITALIZATION ENABLED SCALING...

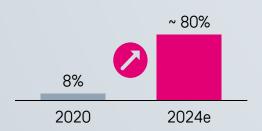
We've built common digital enablers

- Started practical (router, app) for high CX
- Agreed on common cloudified architecture
- Built APIs for local integration



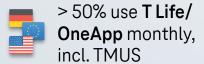
Global scale while local adaptation

Cloudified IT Applications



...CX ADVANTAGES ACROSS REGIONS







~ 12 mn **RDK** router





#1 Best **Chatbot** for years





~ 3 mn active customers on future proven **OneTV** ecosystem



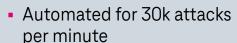
Leading in automation, especially in Germany



Voice production

- Radically automated and cloudified
- Industry first
- > 17 mn voice customers

Fraud detection ==



T Cars

- For automated Fiber planning
- ¹ Excl. RO; ² Broadband Network Gateway

Cloud HW =



- Capacity extension: from 6–12 months to 1 min
- Rack provisioning: from 1 day to 1 min

First line





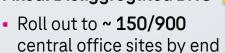
- ~ 95% automated ticket creation
- ~ 70% automatic ticket resolution
- ~ 27% less downtime



- ~ 66% cloudified workloads
- ~ **+57 pp** vs 2020
- ~ 44%¹ cloudified workloads
- ~ +37 pp vs 2020



Fixed: Disaggregated BNG²



of 2024

Mobile: ORAN





- First multi-vendor cluster live and expanding
- Yet, industry evolved more slowly than expected



What differentiates us

OUR CAPABILITIES

TO ADDRESS

BUSINESS DRIVERS

Tech people

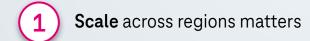
- Best team in industry
- ~ 6,000 digital experts¹

Technology foundation

- Automation, AI & data solutions, and product scale in place
- Co-creation with partners
- Setting industry standards

Human-centered Technology

- Ethical AI guidelines
- Human-centered Technology commitment



- A volatile world requires more technological sovereignty
- Leaders are pioneers in autonomous networks
- 4 Al must deliver business value and be trusted

FOR ALL OUR CUSTOMERS!

 $^{^{\}rm 1}\,\mbox{In}$ Board area Technology & Innovation: e.g. SW engineers, data/AI experts



Overview CMD 2021 commitments: We largely delivered

	Time frame	Ambition	Achievements 2024e	
		Commitment to Fiber rollout		
Technology leadership	2024e	• GER: ~ 10 mn HH passed ¹	~ 9.5 mn HH passed	\checkmark
	2024e	■ EU: ~ 10 mn HH passed ²	~ 10.3 mn HH passed	
		 5G PoP coverage & network leadership 		
	2024e	• GER: ~ 97%	~ 98%	
	2024e	■ EU: > 75%	~ 78%	
	2024e	• Further enhancing 5G innovation leadership & Consumer experience	achieved	
Value transformation	2020-2024e	 IT spend reduction: > €0.2 bn 	~ -€0.2 bn	⊘
	2024e	Time-to-market GER: 2.0 months	~ 1.9 months	
	2024e	 Agile share of development: 100% 	~ 100%	
		 Increase degree of cloudified production 		
	2024e	 NT: GER 67%; EU 42% cloudified workloads 	GER ~ 66%; EU ~ 44% ³	\bigcirc
	2024e	 IT: 80% cloudified applications 	~ 80%	
	2020-2024e	 Technology energy consumption (Region GER & EU): stable 	~ 3.8 (TWh)/~ -9%	

¹Excl. GF+; ²AT, CZ, GR, HR, HU, ME, MK, SK (excl. RO & PL; FTTH/B & Docsis 3.1); ³ Excl. RO

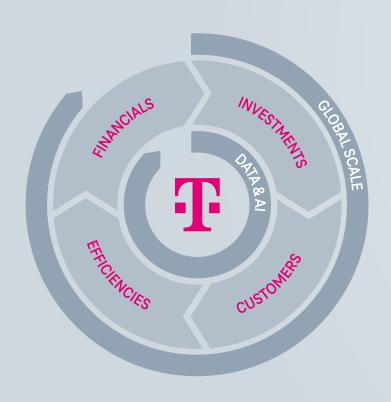


TECHNOLOGY & INNOVATION B2B GROUP DEVELOPMENT GROUP FINANCIALS

Strategy 2023–2027

Our differentiating priorities

GROSS FINANCIAL IMPACT 2027





Scaling Product and Tech Platforms

- For fast introduction of products with great CX across regions
- For cost reduction

IMPACT: ~ **€200 mn¹**



Aiming for more sovereignty

 For cost and experience control in a volatile world



Pioneers in Autonomous Networks

- For cost, quality energy efficiency
- Contributing to stable consumption
- For B2B growth



Driving AI@T

- For productivity across field and customer service, SW development
- For reduction of IT-legacy spend
- For trusted Customer experience

¹ Share of Capex in total amount: ~ €200 mn

IMPACT: ~ €800 mn¹

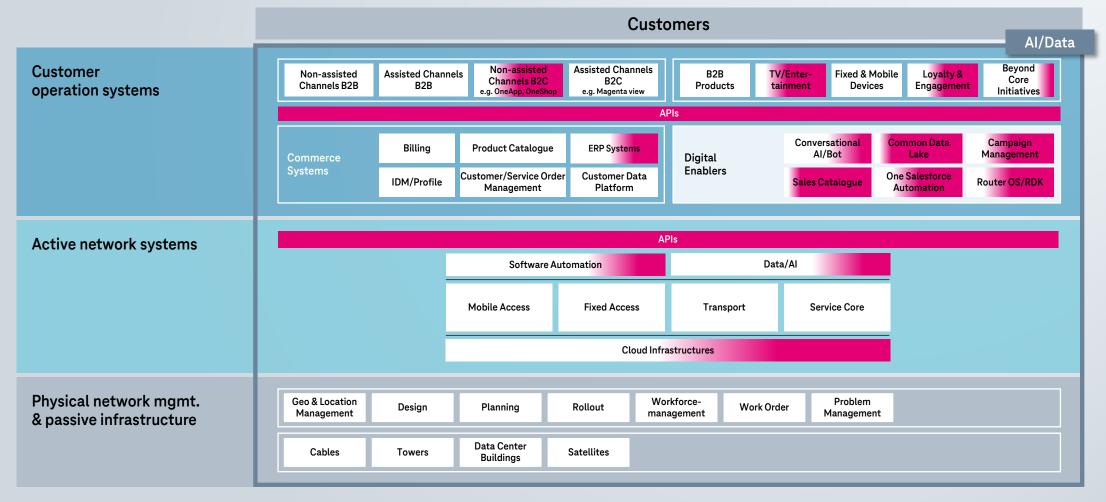


We have scaled product and tech platforms...



Our Architecture Framework

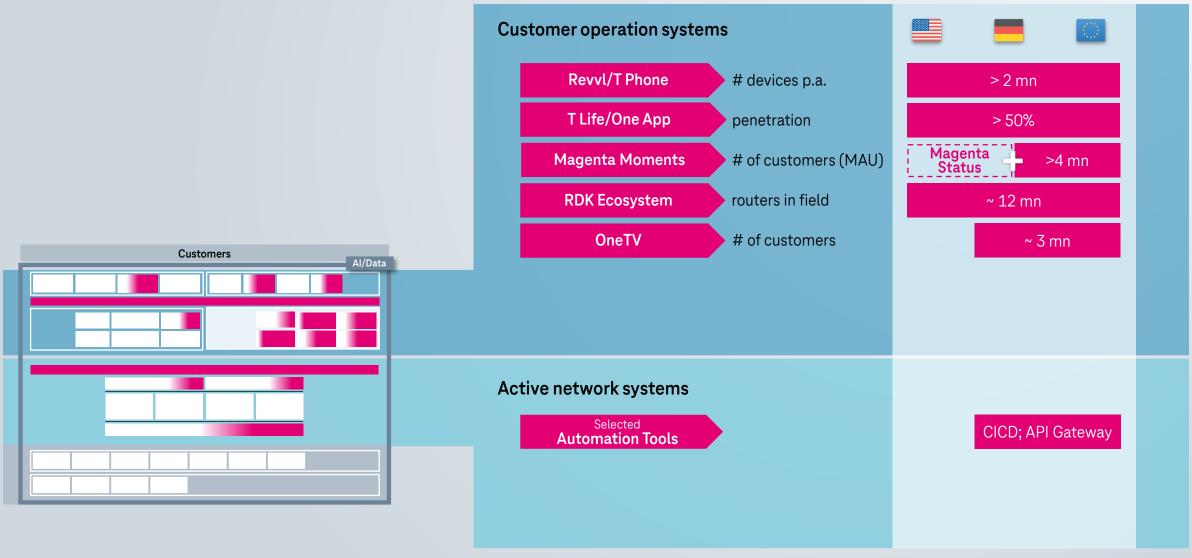
Common TDG/EU 2024





...with proven examples for scale by 2024, also with TMUS



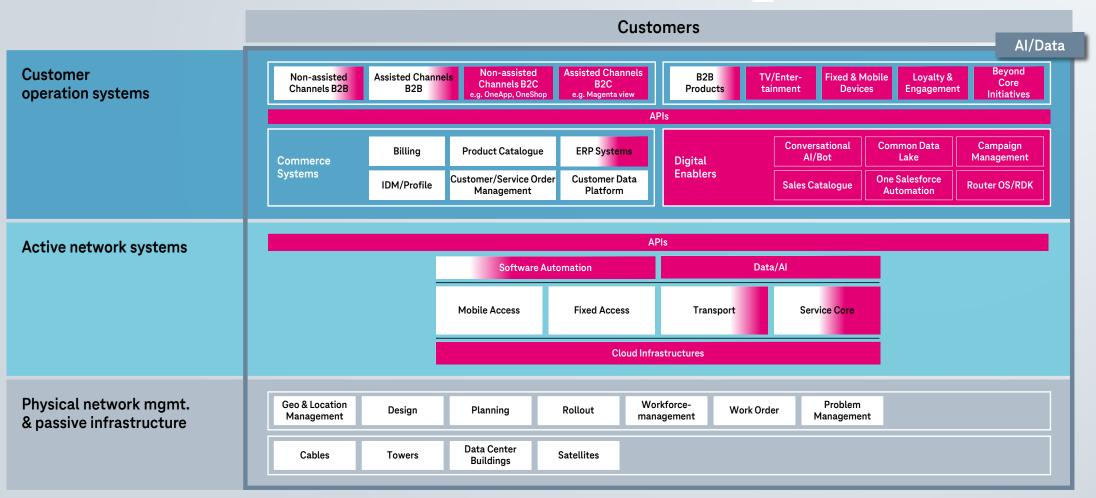




We double down on scale until 2027...



Common across TDG/EU 2027



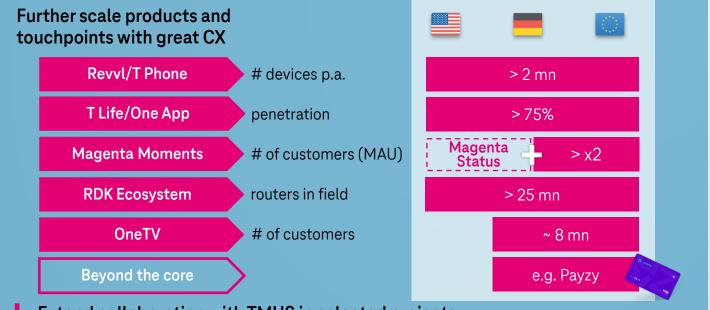
¹ For EU: Common Operating Model



...with clear aspirations for 2027







- Extend collaboration with TMUS in selected projects
 - Especially routers, app, IoT

Realize ~ €200 mn scale value in networks with broader scope

- SW Automation, e.g. RAN automation
- Common multi-cloud
- Common Operating Model in EU
- + Extend collaboration with TMUS in selected projects
 - T Challenge, engineering collaboration, network APIs



Additional upside potential from scaling operations across group



SCALING POTENTIAL

Addressable costs

- Common architecture
- Common production
- Common operation
- Common development
- Procurement
- Common automation use cases
- Customer care
- Digitalization
- Faster AI deployment

Non-addressable costs

- Physical network build
- Customer connections
- Leases
- Local Shops and Marketing
- Bad debt



OPEX/CAPEX BASE DT GROUP 2023



1% Savings on addressable base ~ €250 mn



More sovereignty with smart RAN transformation

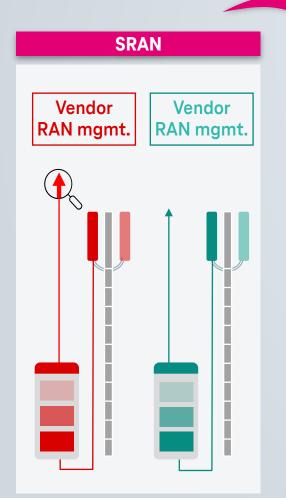


Industry challenge

- SRAN: low vendor choice
- ORAN: more choice, more complexity

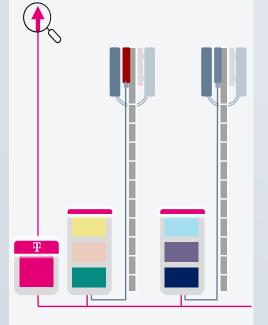
Required capabilities

- Procurement on (sub)system level
- SW engineering, integration & automation



ORAN

DT RAN mgmt.



SOLUTION

 Control cost and experience

Vendors

- Address critical vendor risk
 - Replace vendor config. mgmt. through DT
 - Until 100% ORAN achieved

In place:

Public/legal agreement with federal government on components from critical vendor

Ambition 2027e

- -> 3,000 ORAN sites live
- DT Configuration mgmt. developed



Autonomous networks applied to DT





Unlocking human potential for **innovation**





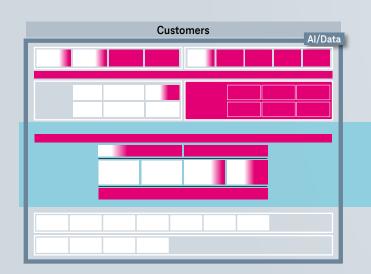
Predict and prevent issues before customers notice

Al-based anomaly detection and automated change execution

We aim for "minimum-to-none" human intervention



AUTONOMOUS NETWORKS – INFUSED BY ADVANCED ANALYTICS AND AI



Less downtime: self-healing mechanisms predict and mitigate issues before they impact customers

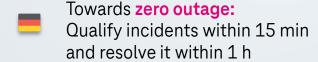
Less complex: automated routine tasks and troubleshooting with integrated AI and ML

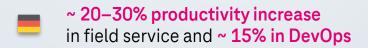
Less energy intense: intelligently steered energy consumption and network utilization

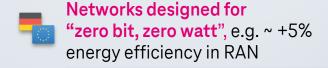
Less risk of cyber attacks: enhanced security features and automated policy enforcement

Less static: capabilities that optimize the network and adapt to tailored customer needs

Ambition 2027e













Proven efficiency measures keep our energy consumption flat



EFFICIENCY MEASURES COMPENSATE TRAFFIC-DRIVEN GROWTH ...

Global data traffic volume growth (in %, 2023 vs 2027)¹:

13.8 mn PB



~ +60%

Mobile sites:

36.5k



45k

2

~ +8%

3.x GHz rollout:

3.5k

~ x2.3

2.3k

~ x4

Energy efficiency measures (exemplary)

Retire

- 3G, 2G
- SDH/PDH
- Copper (initial steps)
- Data Center consolidation

Modernize

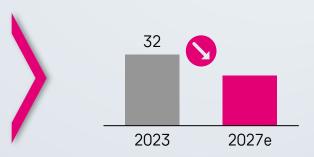
- MSAN & Central office consolidation
- Network sharing
- Network modernization

Innovate

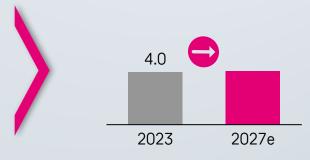
Al-based power saving

... TRANSLATE INTO STABLE CONSUMPTION & LOWER INTENSITY

Energy Intensity (in kWh per TB)²:



Energy Consumption (in TWh)³:



¹ Analysys Mason Worldwide Fixed and Mobile Data Traffic Forecast (June & July 2024); ² Ratio Energy Consumption to IP Data Volume (GER + EU); ³ GER + EU



Significant impact with automation and AI, data informed



CREATING VALUE...

Significant productivity increase across entire value chain

- Labor productivity
- Energy efficiency
- IT legacy spend

estimated 2027 gross financial impact:

~ €800 mn



Al protects us.

e.g. against 30,000 attacks per minute.



Al can save lives.

e.g. with fire forest detection.



Al makes us faster.

e.g. with T Cars and FTTH chatbot.



Al reduces bureaucracy.

e.g. with law monitor, document summary.



Al creates excitement.

e.g. with askT, AI@T

...WITH SMART COLLABORATION

- Buying selected market leading solutions (e.g. Glean for askT)
- Co-creating in selected bets (e.g. Global Telco Al Alliance)
- Building own solutions when strongly positioned (e.g. fraud detection)













Impacting productivity and CX across entire value chain



•

Ambition 2027e

Context aware sales, service and engagement

~ -15% service calls

~ -15% avg. handling time

•

e.g. FragMagenta for Hotline 2.0

Al-optimized networks across planning and operations

+20-30%

productivity

e.g. Al support for

field technicians

Intelligent and attractive workplace

~ +10% in efficiency in relevant areas, faster knowledge access

e.g. askT employee bot

Sales & Service









Al enablers e.g. own TelcoLLM via Global Telco Al Alliance

Personalized AI-for-All consumer products

~ 10 mn

monthly active users

e.g. Al@T with Perplexity in OneApp

Al-superpowered software engineering

+20-30%

productivity

e.g. Al for coding/ operations

Demo today



GROUP STRATEGY

GERMANY

EUROPE

T-MOBILE US

TECHNOLOGY & INNOVATION

•

GROUP DEVELOPMENT

GROUP FINANCIALS

Experience Demo



Sales & Service
FragMagenta next-level



G&A askT for Employees < ☼



Products Consumer Al

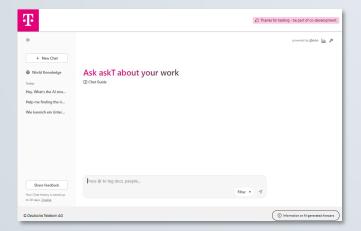




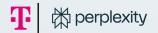


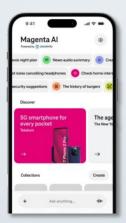
#helpcustomersfaster





#makeworkbetter





#democratizeAl



Midterm ambition level

2023-2027e: Our differentiation creates tangible benefits

STRONGER FOUNDATION



SUPERIOR EXECUTION



ACCELERATION



VALUE CREATION



- Tech people
- Technology foundation
- Human-centered Technology



- We scale product and tech platforms
- We aim for more sovereignty
- We are pioneers in autonomous networks
- We drive Al@T



Global scale

- Fast product introductions across regions
- Network scale value
- Upside to our commitments

Data, automation & Al

- Focus on business value
- Smart collaboration
- Trust anchor



Estimated gross financial impact¹

~ €1 bn

FOR ALL OUR CUSTOMERS!

¹ Full impact by 2027e, share of Capex: ~ €200 mn



Our midterm commitments

KPI	Midterm ambition level	Year
Automated/AI-based fault resolution rate in NT	> 90%	2027e
Monthly active users on own and partner GenAl services	~ 10 mn	2027e
% of systems connected to common API gateway (Consumer/Provider)	~ +25%/~ +14%	2023-2027e
Reduction in service calls/calls deflected (FragMagenta) ¹ Non-issue resolution time/Avg. call handling time reduction (Agent Assist) ¹	~ -15% ~ -15%	2023-2027e
Software developer productivity	20-30%	2023-2027e
Reduce share of legacy cost in IT Spend	~ -40%	2023-2027e
ORAN sites in live network	> 3,000	2027e
Total Energy Consumption	Keep stable	2027e

Estimated gross financial impact²:

~ €1 bn

(2027e vs 2023)

¹Only in Germany; ² Full impact by 2027e, share of Capex: ~ €200 mn

