

# AI for wireless networks

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# The GSMA

Supporting

**1100+**

mobile operators and  
companies in the  
broader ecosystem

The first sector to commit to

**UN SDGs**

in 2016

Convening and informing  
the mobile ecosystem

**MWC/M360**

# Mobile industry in numbers

## Unique mobile subscribers

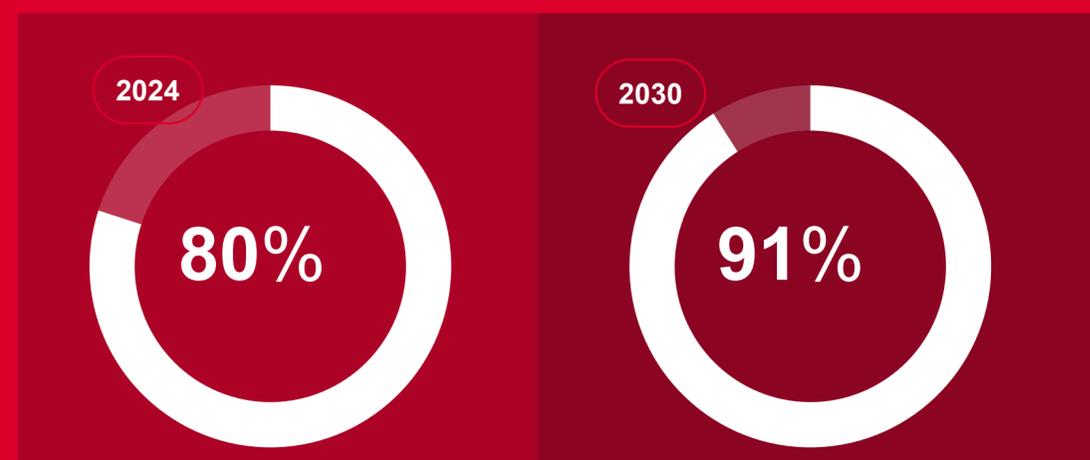


## Operators revenues and investment



## Smartphones

(percentage of connections)



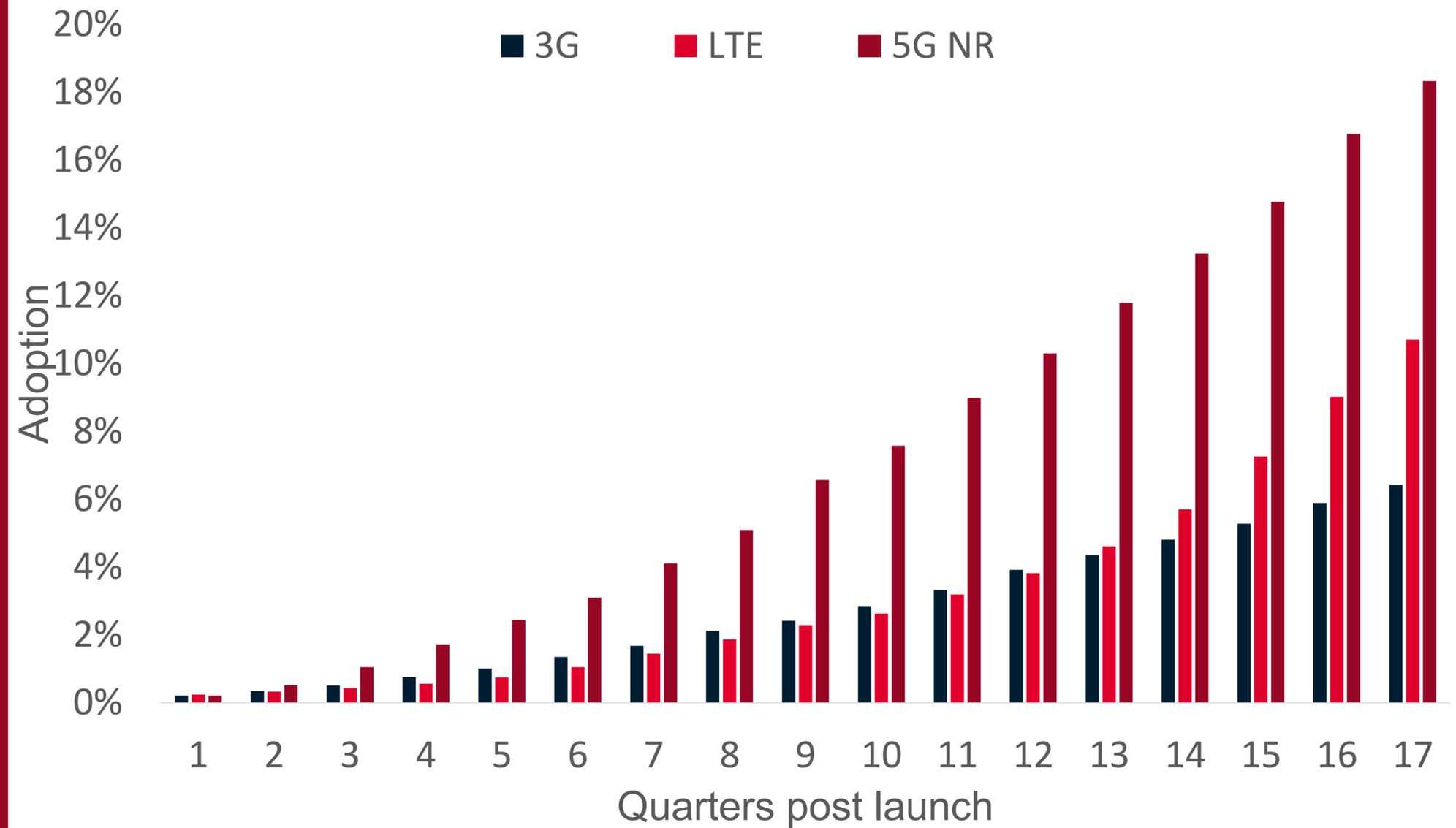
## Mobile's contribution to GDP



Source: The Mobile Economy, 2025.  
GSMA Intelligence

5G penetration  
**>20%**

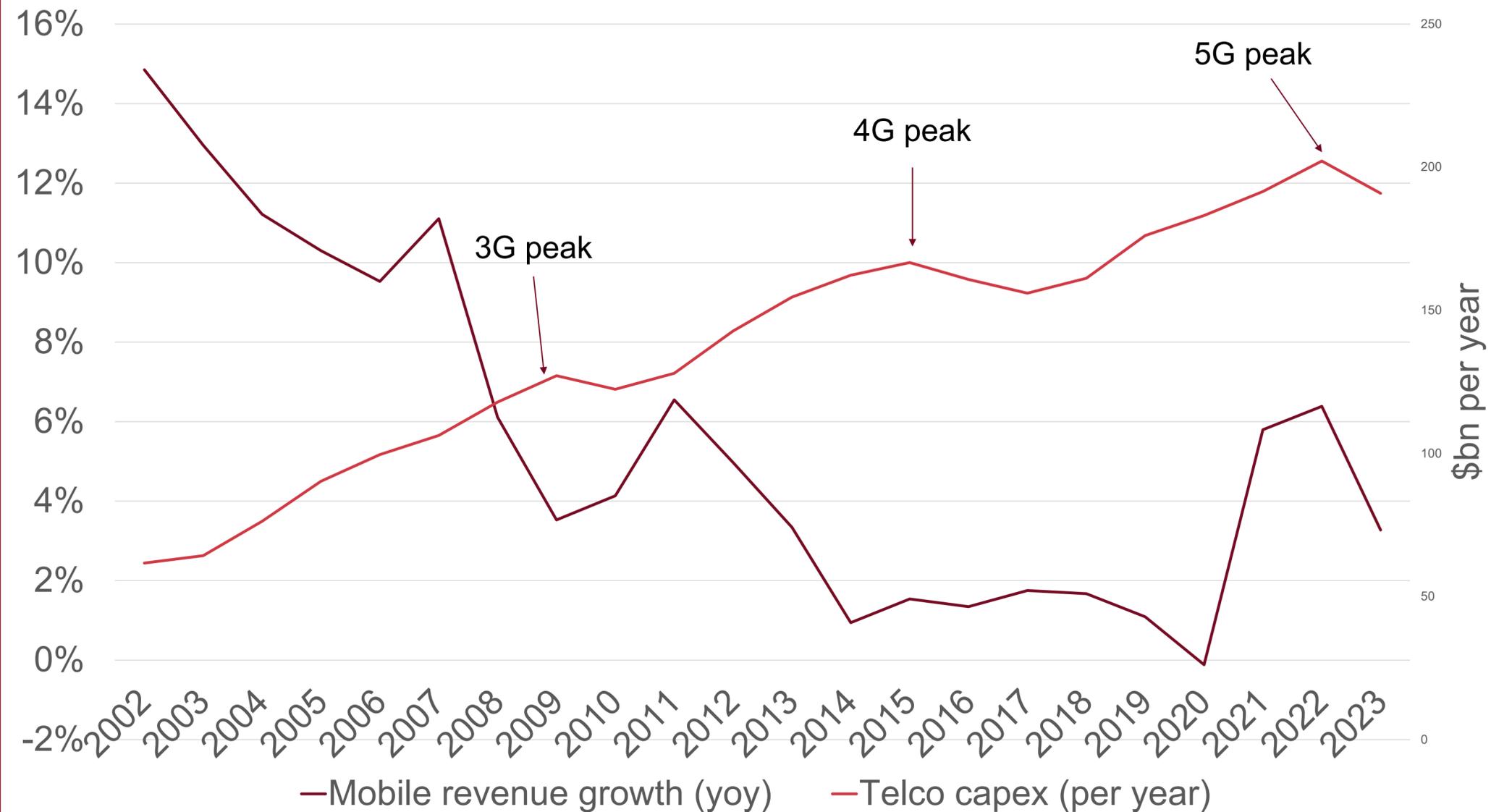
## 5G has the fastest take up of all prior generations



Source: GSMA Intelligence

the mobile industry faces  
a long-standing  
**growth  
challenge**

## telco revenue growth vs total capex



Source: GSMA Intelligence

# Enterprise segment

85%

rate 5G as  
important

10%

of revenue  
spent on  
digital trans.

2%

only  
deployed  
private  
networks

spend

14%

on mobile

13%

on AI

Source: GSMA Intelligence

# Consumer segment

1 in 5

are not  
satisfied  
with 5G

41%  
speed

25%  
coverage

China & UAE

dissatisfaction is lower  
as 5G SA networks  
lunched

5%

are ready to  
pay extra  
for 5G

Source: GSMA Intelligence

# AI in telecoms



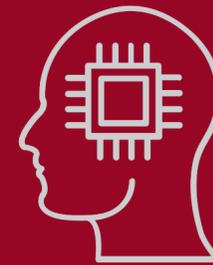
## Core AI

Network planning & operation  
IT functions  
Inventory management



## ML

Predictive maintenance  
Security thread detection



## GenAI

Sales & marketing  
Personalised service creation

65% MNOs have a formal AI strategy

leading telcos use AI in 9 of 13 business areas

most MNOs spend 5–15% of their digital budget on AI

Source: GSMA Intelligence

# AI in numbers

**47%**

Customer care - most common function for operators

**70:30**

Live versus trial/planned

**~20%**

Telco AI with a revenue objective

**20%**

Larger operators have, on average, 20% more AI deployments

Source: GSMA Intelligence

# AI for telco

## User experience

Automation versus AI in network management  
Experience in support for growth

## RAN AI

Optimisation versus monetisation focus

## Cloud is about AI

AI dominates cloud investment  
Partnership with hyperscalers

## Agentic telco

Agentic AI remains in its infancy

**Telco AI strong  
internal focus**

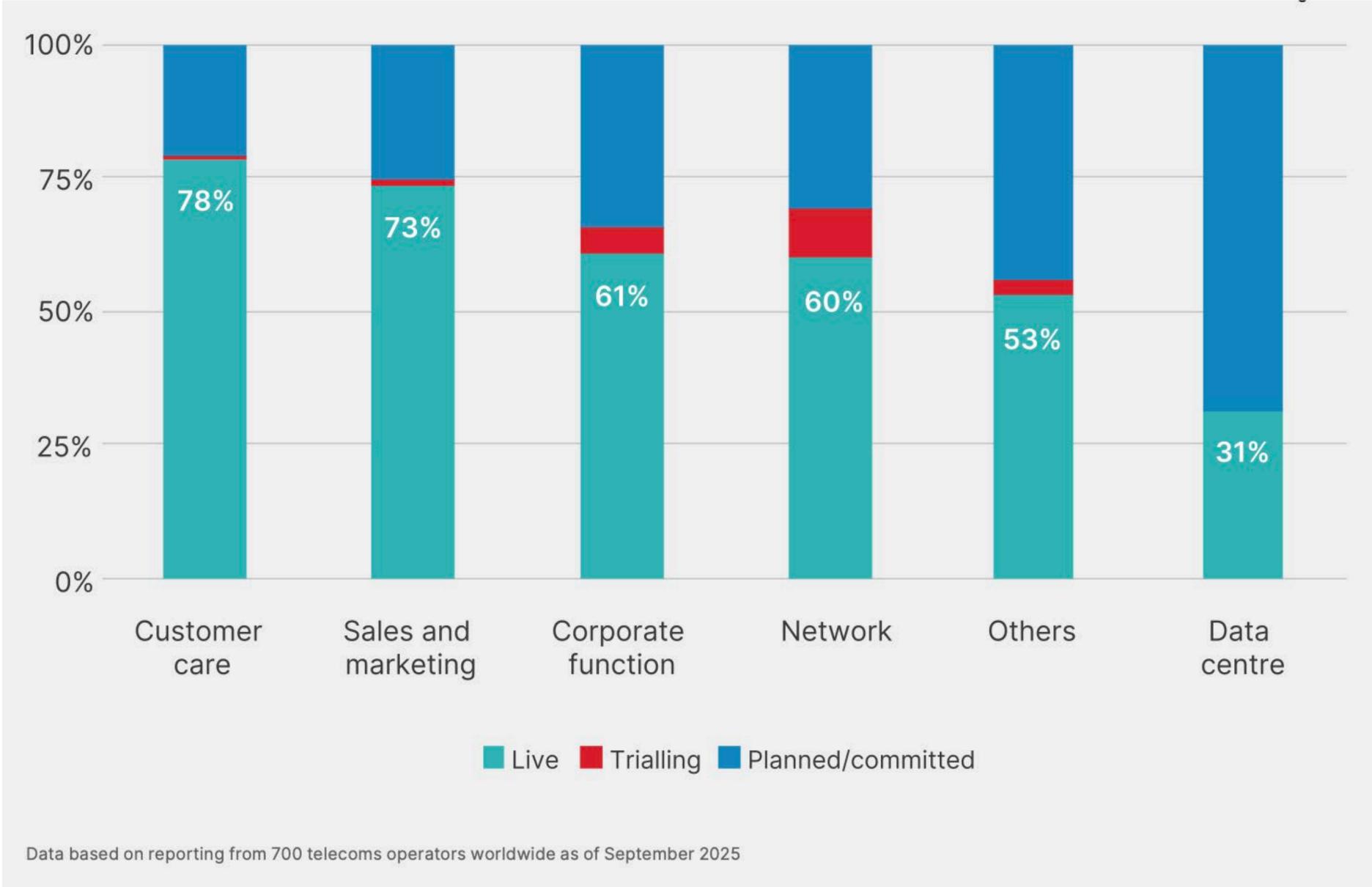
## Is AI focused on costs, revenues or both?

Region	AI deployments launched (cumulative)	Primary objective		New deployments (three months to September)	
		Internal (costs and efficiencies)	External (product revenue)	Internal (costs and efficiencies)	External (product revenue)
Europe	122	84%	16%	75%	25%
Asia Pacific	120	75%	25%	63%	37%
Latin America	57	91%	9%	–	–
Sub-Saharan Africa	52	94%	6%	92%	8%
MENA	46	83%	17%	79%	21%
Eurasia	21	81%	19%	50%	50%
Northern America	14	79%	21%	100%	0%

Source: GSMA Intelligence

# The telecoms industry's level of AI adoption

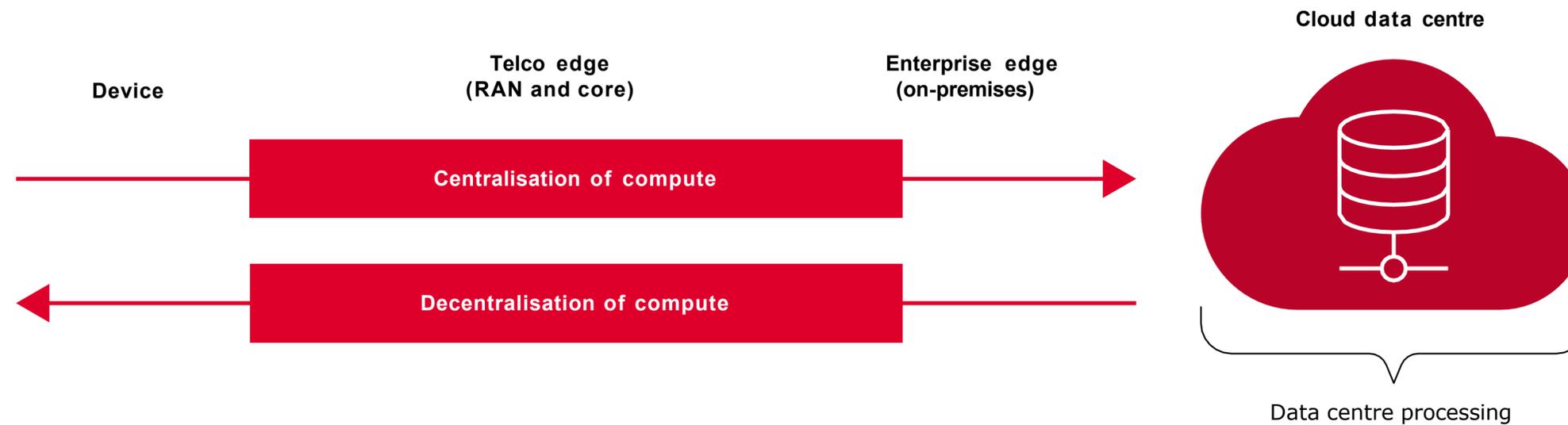
Telco AI deployments are most evident in **customer care** (an easy win) but are expanding to other functions



# Telco AI monetization



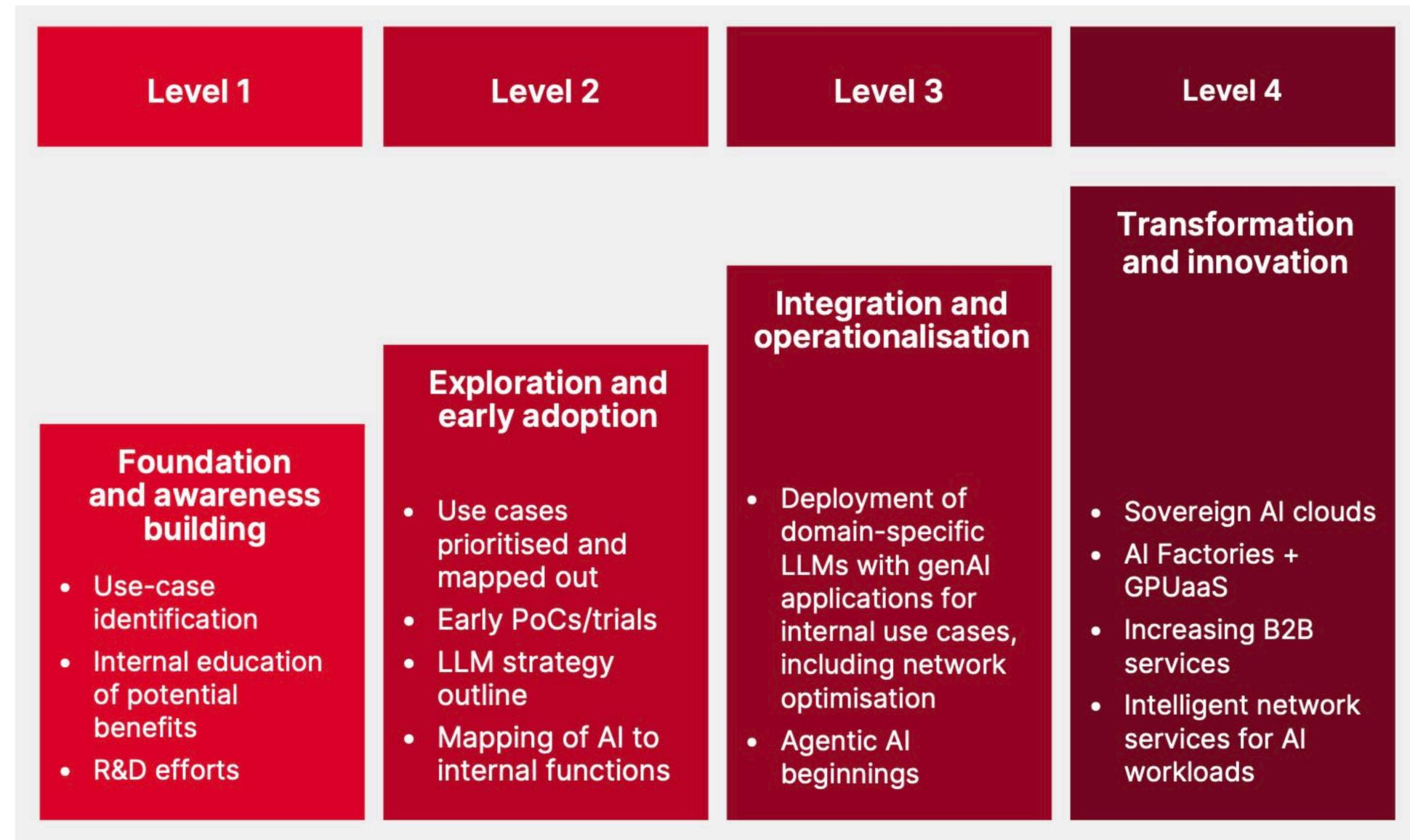
The distribution of compute power from the device edge to the public cloud



Source: GSMA Intelligence

# AI maturity model for operators

capacity and  
**maturity**  
will impact the business  
models



# AI use cases



AI+ network strategy



embracing consumer genAI



AI pyramid strategy



Aura digital assistant

# Thank You

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