

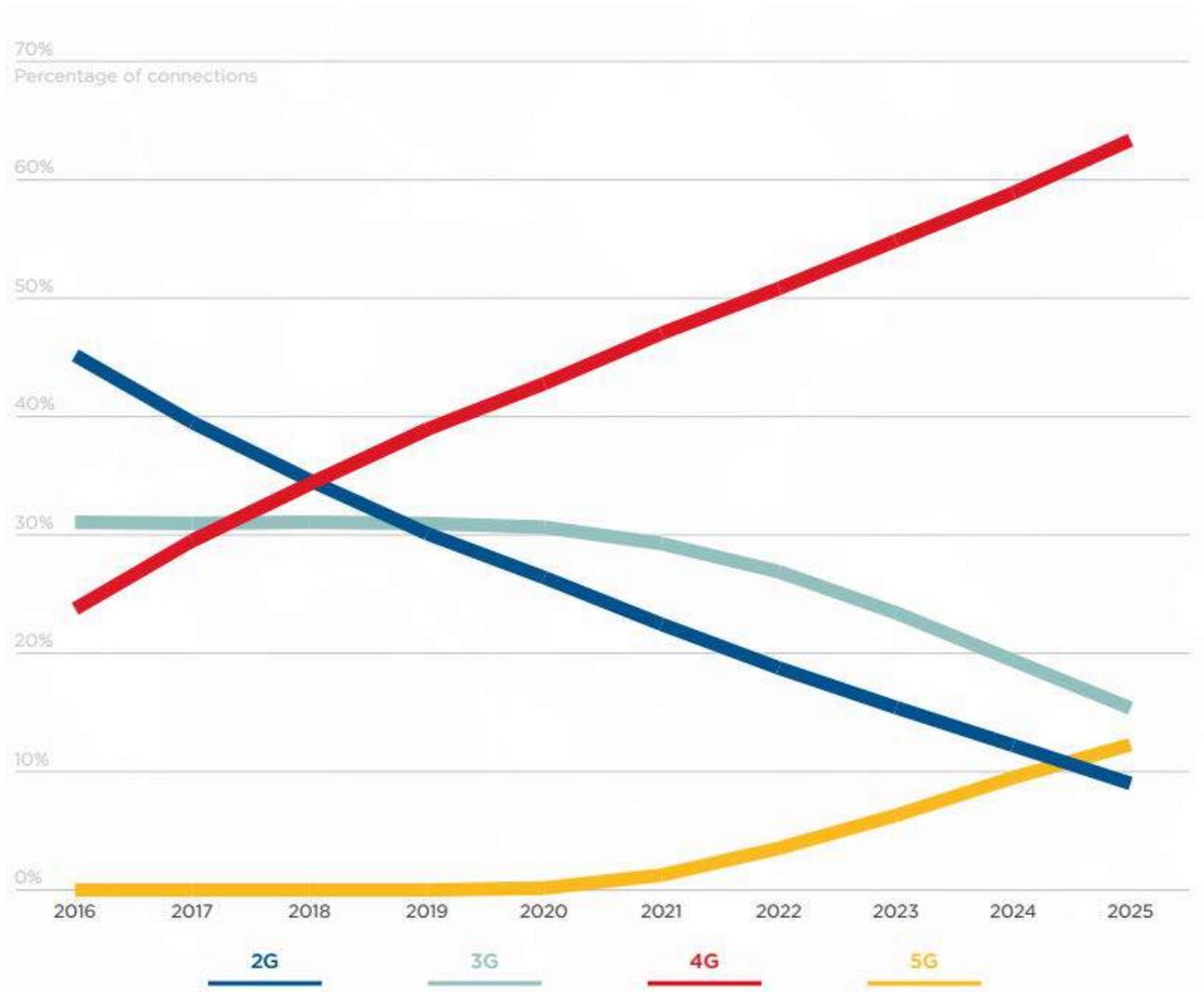
GRÁFICOS, CIFRAS Y FRASES DE LA QUINCENA VOL.90

Informe

➔ *NÚMERO DE OPERADORES MÓVILES EN EUROPA A OCTUBRE DE 2016, COMISIÓN EUROPEA.*

	OMR	OMR CON LTE	OMV	OMV sin LTE
BE	3	3	4	0
BG	5	5	0	0
CZ	4	3	1	1
DK	5	5	2	0
DE	3	3	4	0
EE	3	3	1	0
EL	3	3	1	0
ES	4	4	24	0
FR	4	4	50	0
HR	3	3	0	0
IE	3	3	6	0
IT	4	4	16	0
CY	3	3	2	0
LV	4	3	3	1
LT	3	3	10	0
LU	3	3	3	0
HU	3	3	4	0
MT	3	2	2	1
NL	4	4	86	0
AT	3	3	14	0
PL	5	5	21	0
PT	3	3	5	0
RO	5	4	1	1
SI	4	3	4	1
SK	4	4	1	0
FI	5	4	7	1
SE	5	5	41	0
UK	4	4	30	0
TOTALES	105	99	343	6

➔ *BY 2025, 4G WILL ACCOUNT FOR TWO THIRDS OF THE GLOBAL MOBILE USER BASE. GSMA.*

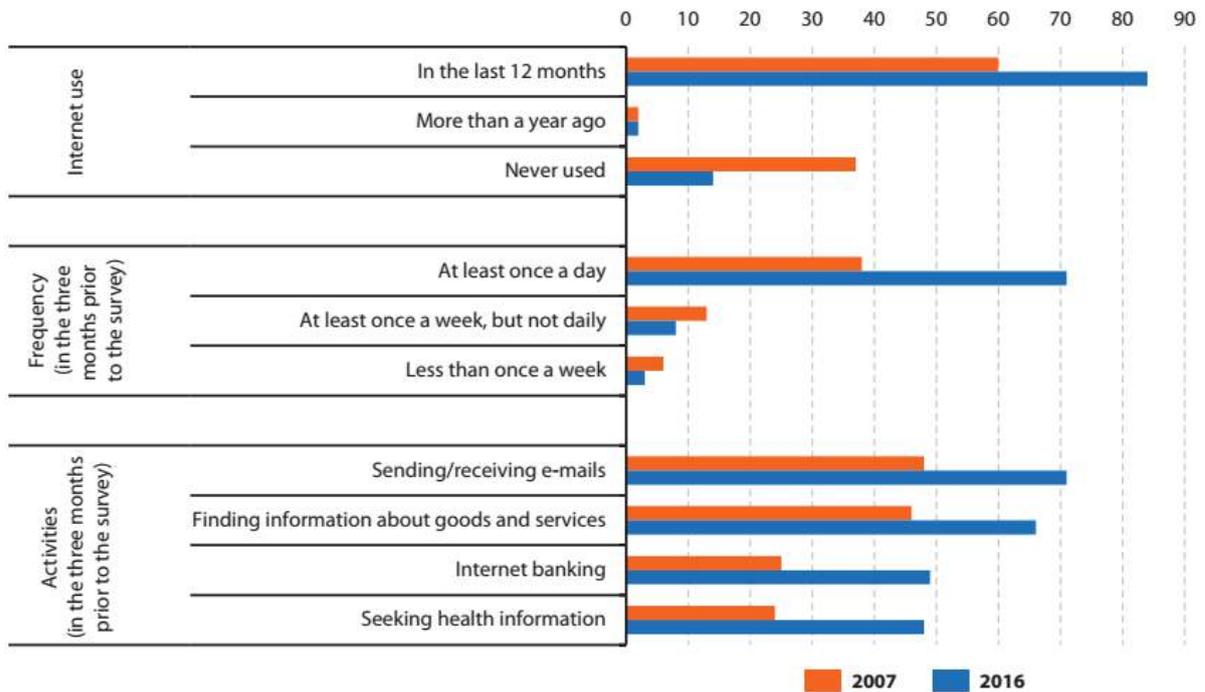


➔ *“88 PERCENT OF AUSTRIANS AGED 16 TO 74 USE THE INTERNET”, DER STANDARD.*

➔ *“EL 5G SUPONDRÁ UN TERCIO DEL MERCADO EUROPEO DE LA TELEFONÍA MÓVIL PARA 2025”, GSMA.*

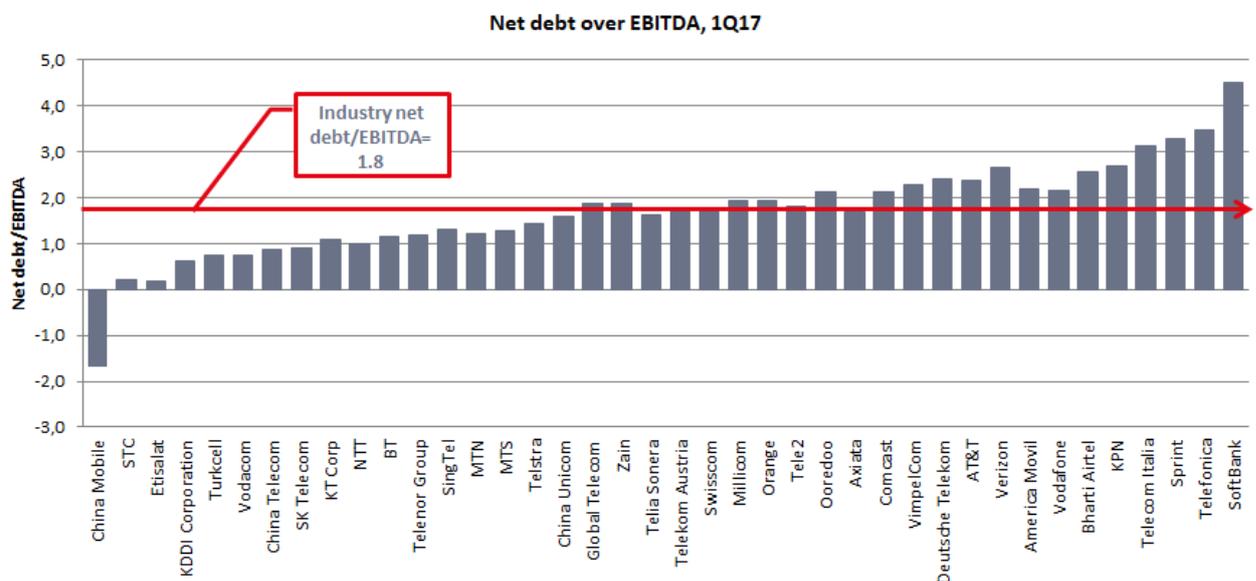
➔ *“MÁS DE LA MITAD (53%) DE LOS HOGARES DEL REINO UNIDO TUVIERON UN PROBLEMA CON SU BANDA ANCHA EN EL ÚLTIMO AÑO”, WHICH?*

➔ **INDIVIDUALS' USE OF THE INTERNET, EU-28, 2007 AND 2016, (% OF ALL INDIVIDUALS), EUROSTAT.**

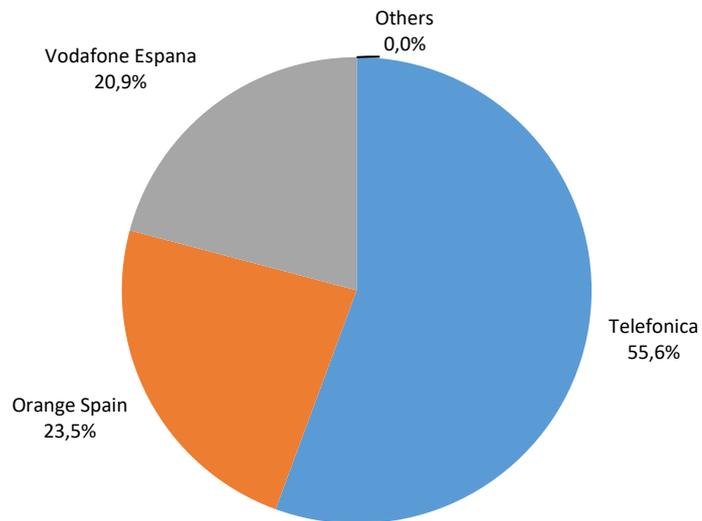
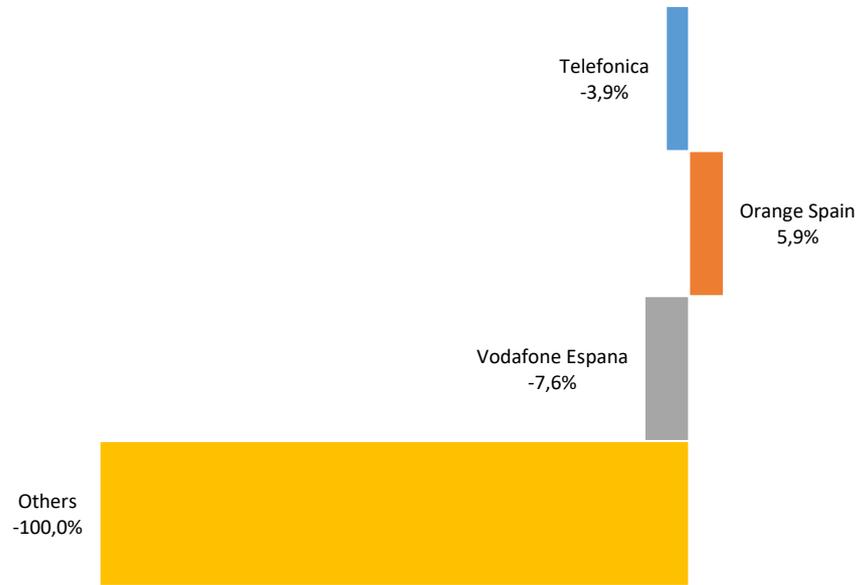


Source: Eurostat (online data codes: isoc_ci_ifp_iu, isoc_ci_ifp_fu and isoc_ci_ac_i)

➔ **DEUDA NETA SOBRE EBITDA, 1Q2017, OVUM.**



➔ **EVOLUCIÓN INTERANUAL DEL CRECIMIENTO DE LOS OPERADORES Y SU CUOTA DE MERCADO, 2Q2017. OVUM.**



➔ *TOP TEN AFRICAN OPERATORS BY MOBILE SUBSCRIPTIONS, 2Q17, OVUM.*

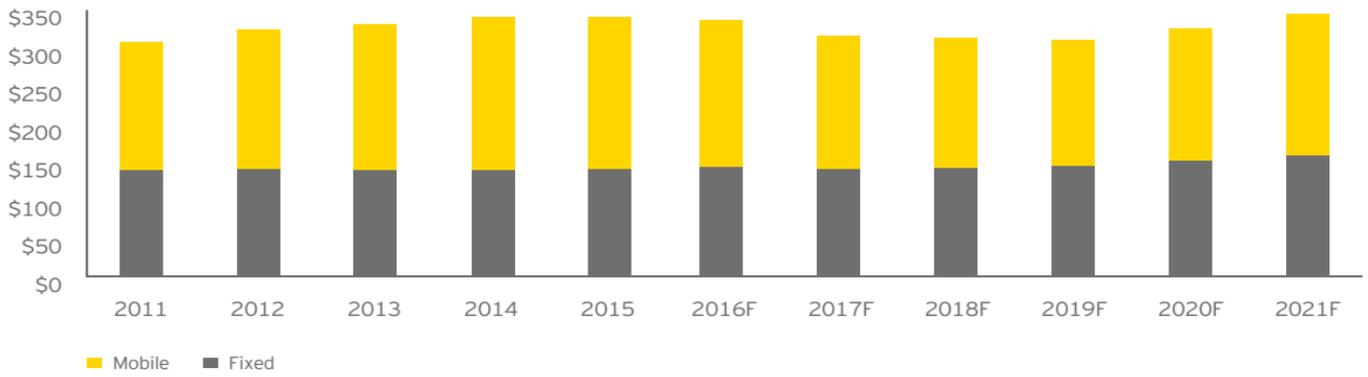
Operator	Country	Mobile subscriptions, end-2Q17 (millions)	Share of country's mobile subscriptions, end-2Q17 (%)	Mobile broadband subscriptions, end-2Q17 (millions)
Ethio Telecom	Ethiopia	57.34	100.00	8.76
MTN	Nigeria	53.09	36.96	16.61
Vodacom	South Africa	42.48	45.28	22.57
Vodafone	Egypt	42.09	42.13	18.25
Globacom	Nigeria	37.41	26.04	16.91
Airtel	Nigeria	35.00	24.36	14.67
Orange	Egypt	33.81	33.85	10.48
MTN	South Africa	31.22	33.27	22.09
Safaricom	Kenya	28.88	76.32	7.72
Etisalat	Egypt	24.00	24.02	6.87

➔ *DIFERENCIAS ENTRE EL 4 Y EL 5G, COMISIÓN EUROPEA.*

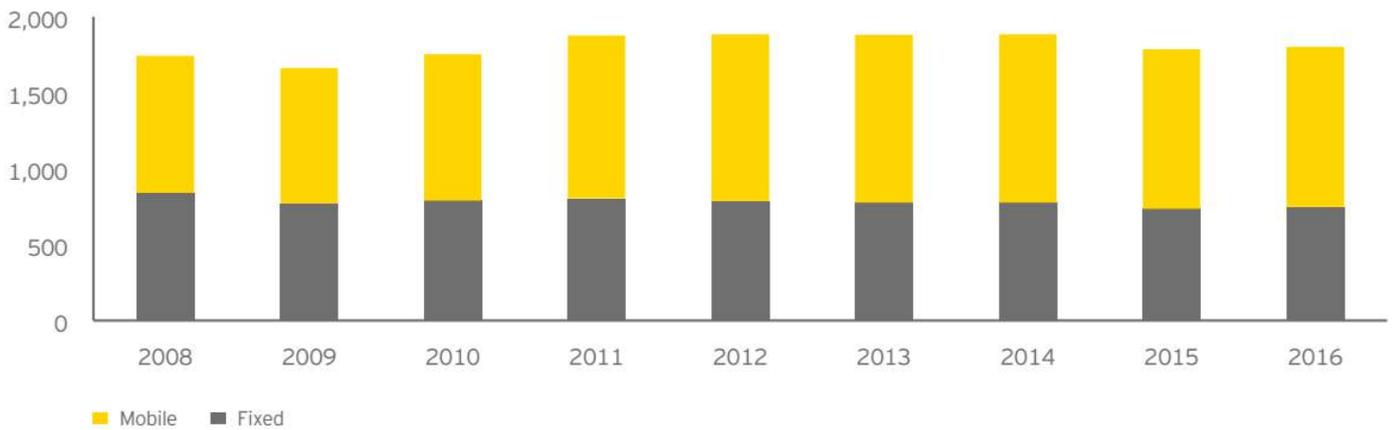
WHAT WE WILL BE ABLE TO DO IN 2025 WITH BETTER CONNECTIVITY?

Time to download a 	average download speed = 25 Mbps	
	2017 4G	2025 5G
Digital book – 1 MB	0.32 second 	3.2 milliseconds
Song – 5 MB	1.6 seconds 	16 milliseconds
TV show (HD) – 450 MB	2.4 minutes 	1.44 seconds
Film (HD) – 1500 MB	8 minutes 	4.8 seconds

➔ GLOBAL TELECOMS CAPEX DEVELOPMENT (US\$B), EY.

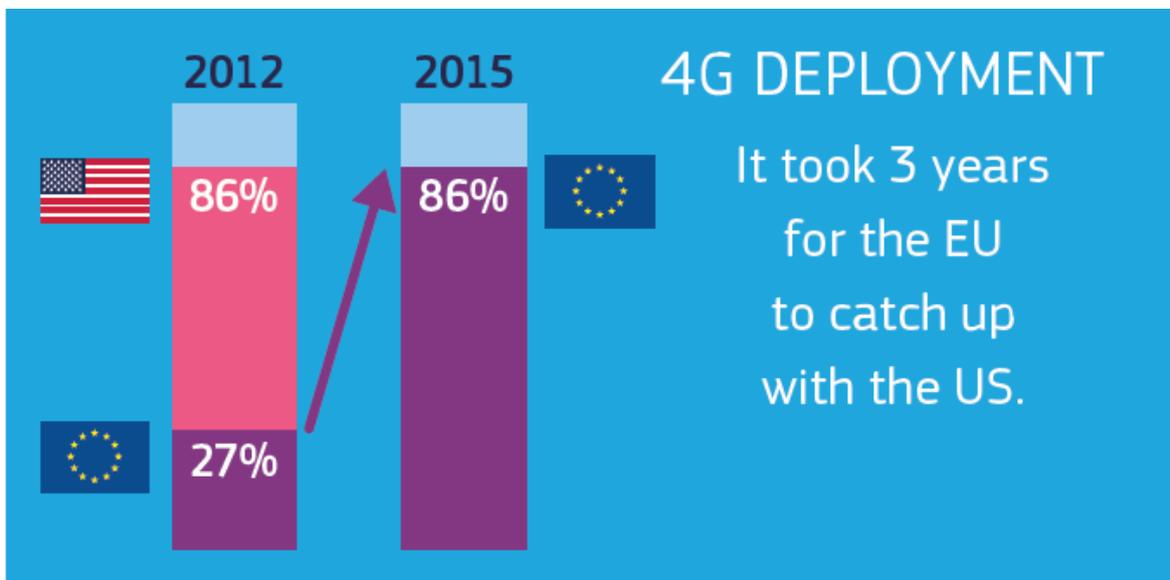
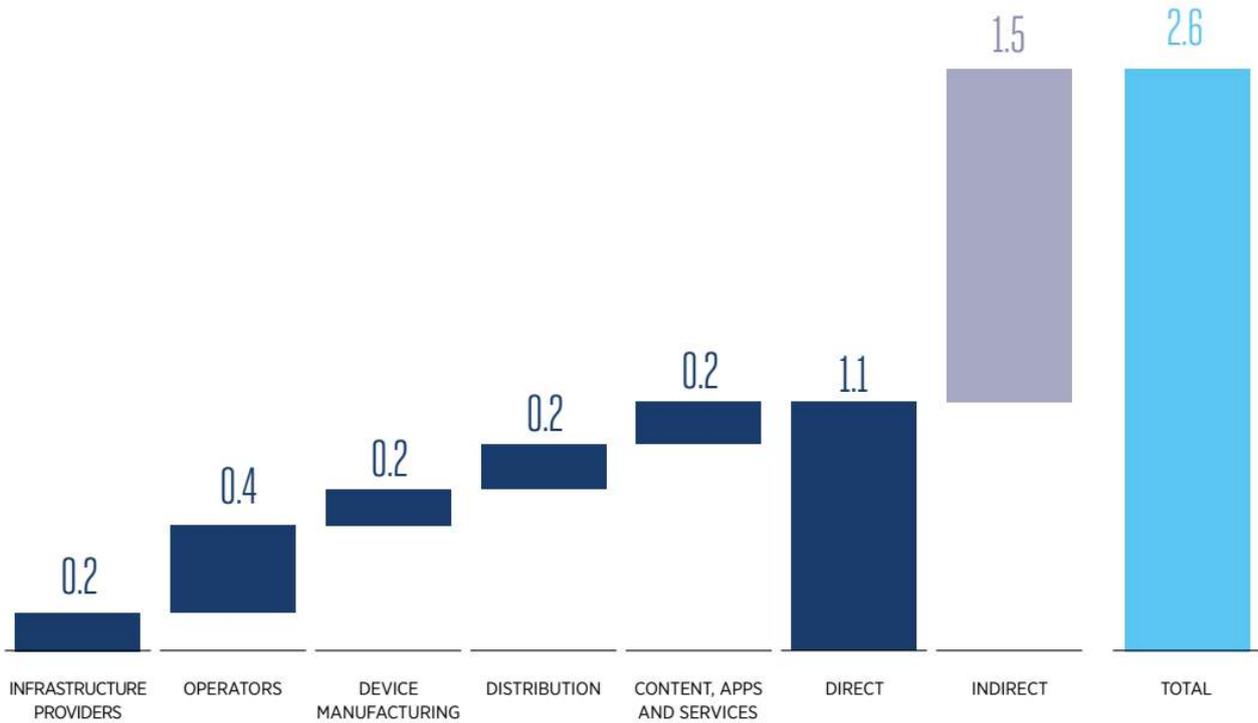


➔ GLOBAL TELECOMS REVENUE DEVELOPMENT 2008-16 (US\$B), EY.

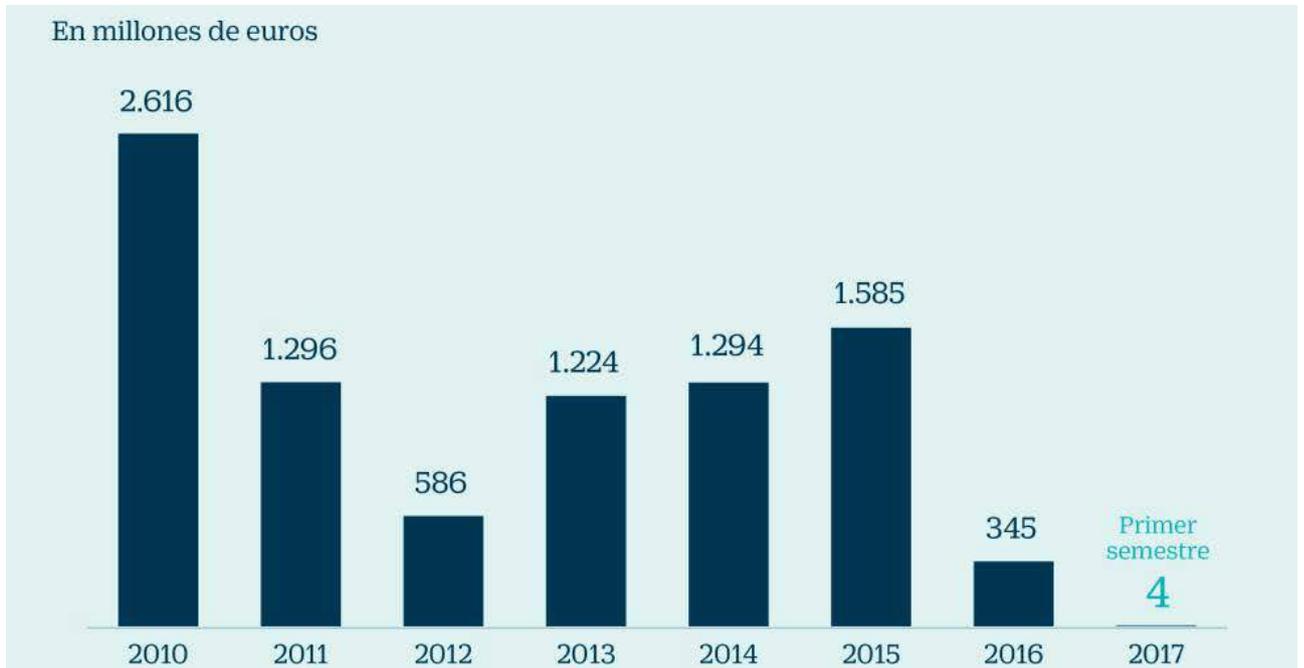


➔ *EMPLOYMENT IMPACT, MOBILE MARKET, EUROPE, GSMA.*

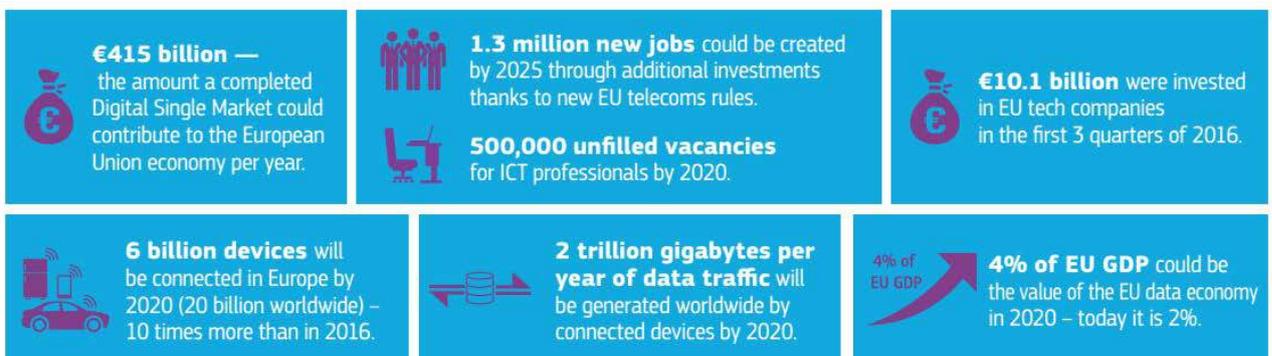
(Jobs, million, 2016)



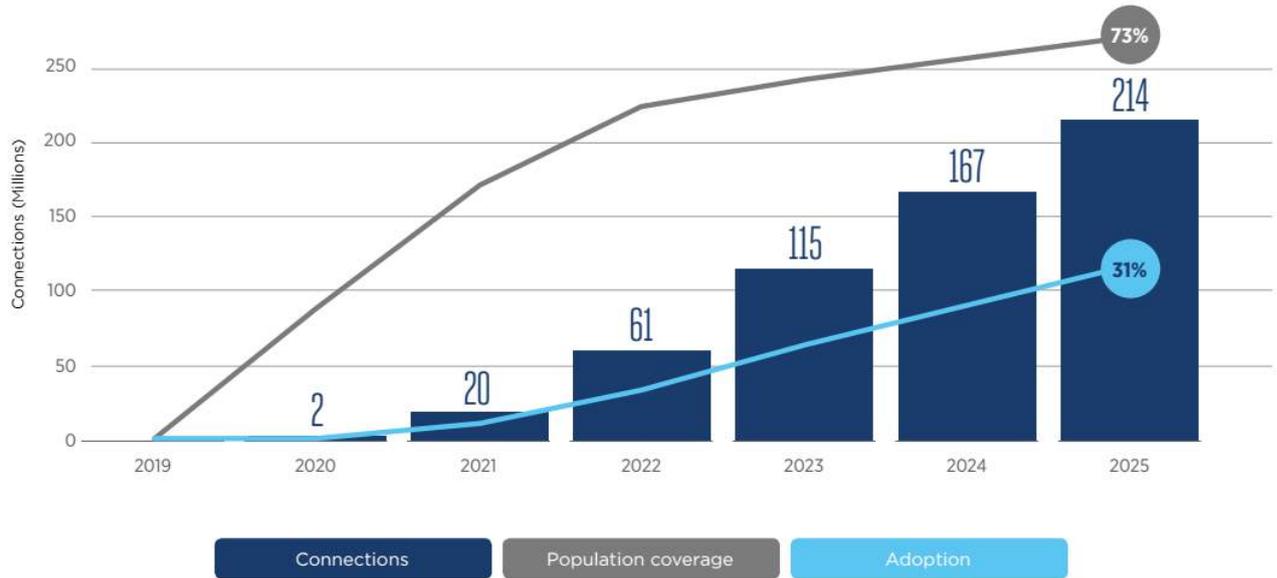
➔ **EVOLUCIÓN DE LA INVERSIÓN DE TELEFÓNICA EN ESPECTRO MÓVIL, CINCO DÍAS.**



➔ **BENEFICIOS DEL MERCADO ÚNICO DIGITAL EN LA UNIÓN EUROPEA, COMISIÓN EUROPEA.**

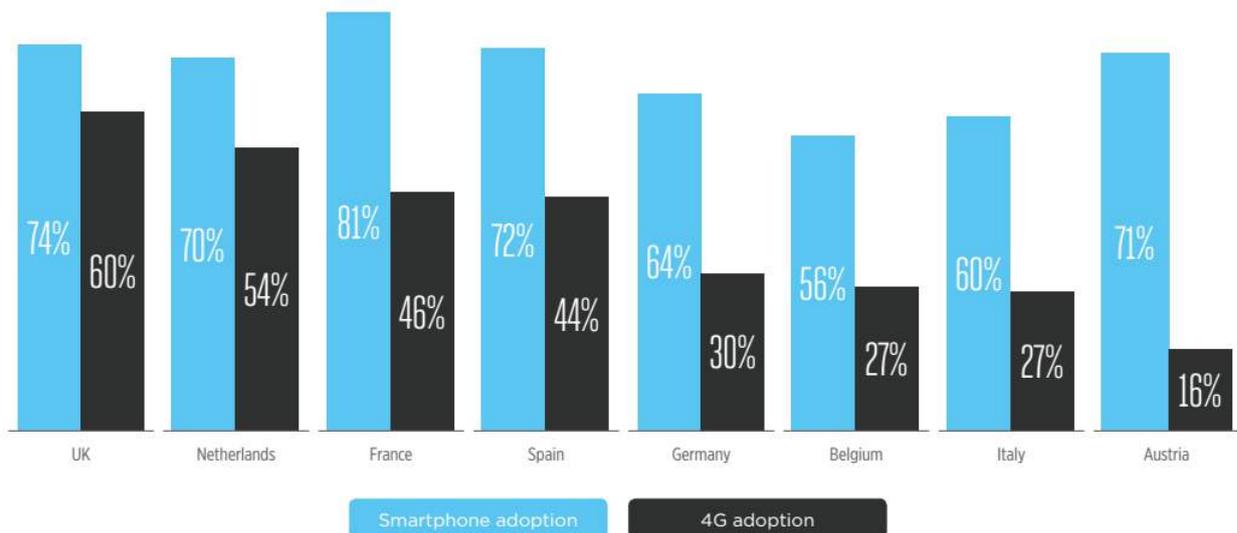


➔ **EUROPE 5G FORECASTS, GSMA.**

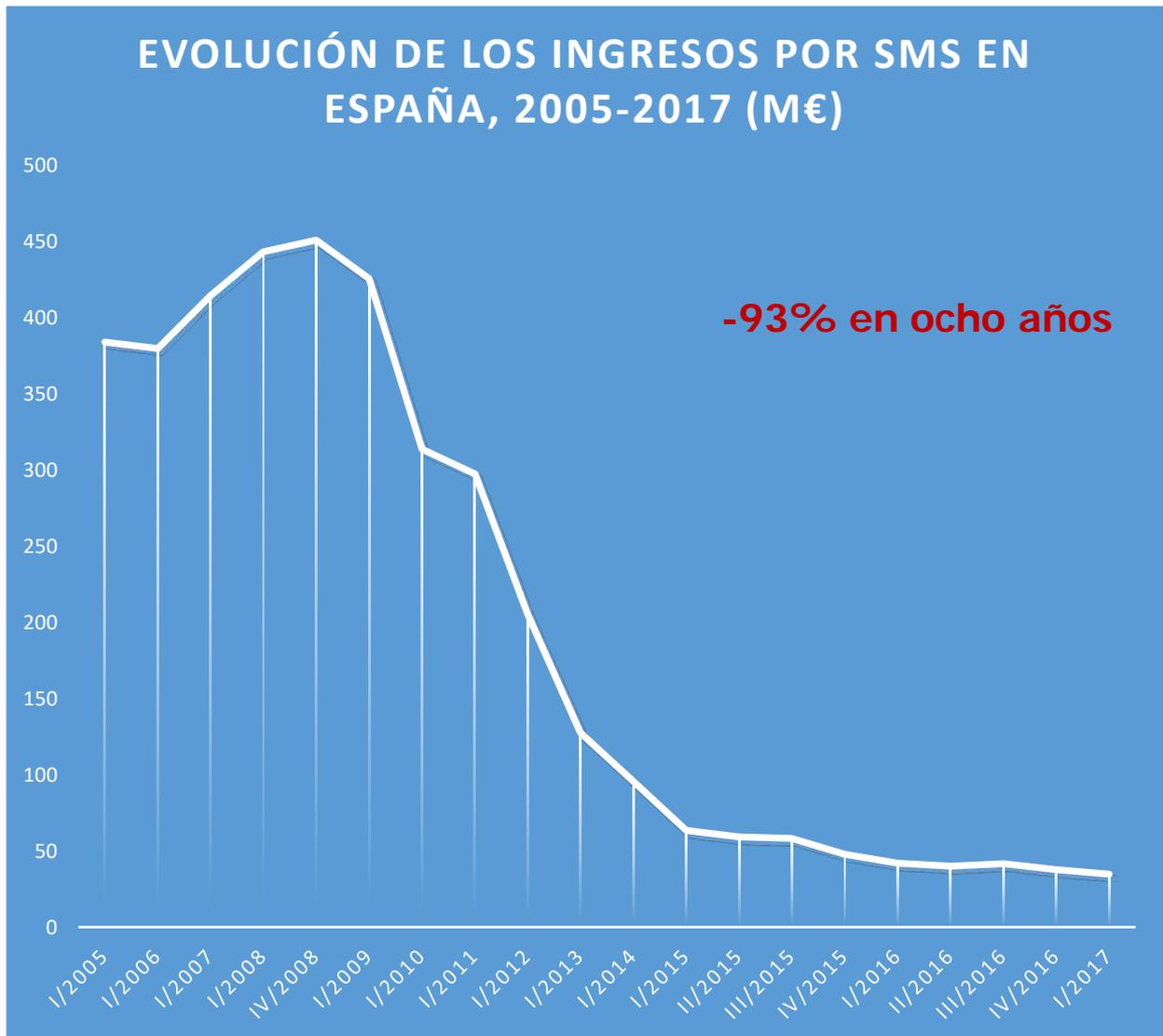


➔ **4G ADOPTION LAGGING SMARTPHONE ADOPTION IN CERTAIN EUROPEAN COUNTRIES, GSMA.**

Percentage of total connections



➔ *EVOLUCIÓN DE LOS INGRESOS POR SMS EN ESPAÑA, 2005-2017, TODOS LOS OPERADORES. DATOS CNMC, ELABORACIÓN PROPIA.*



UGT Comunicaciones