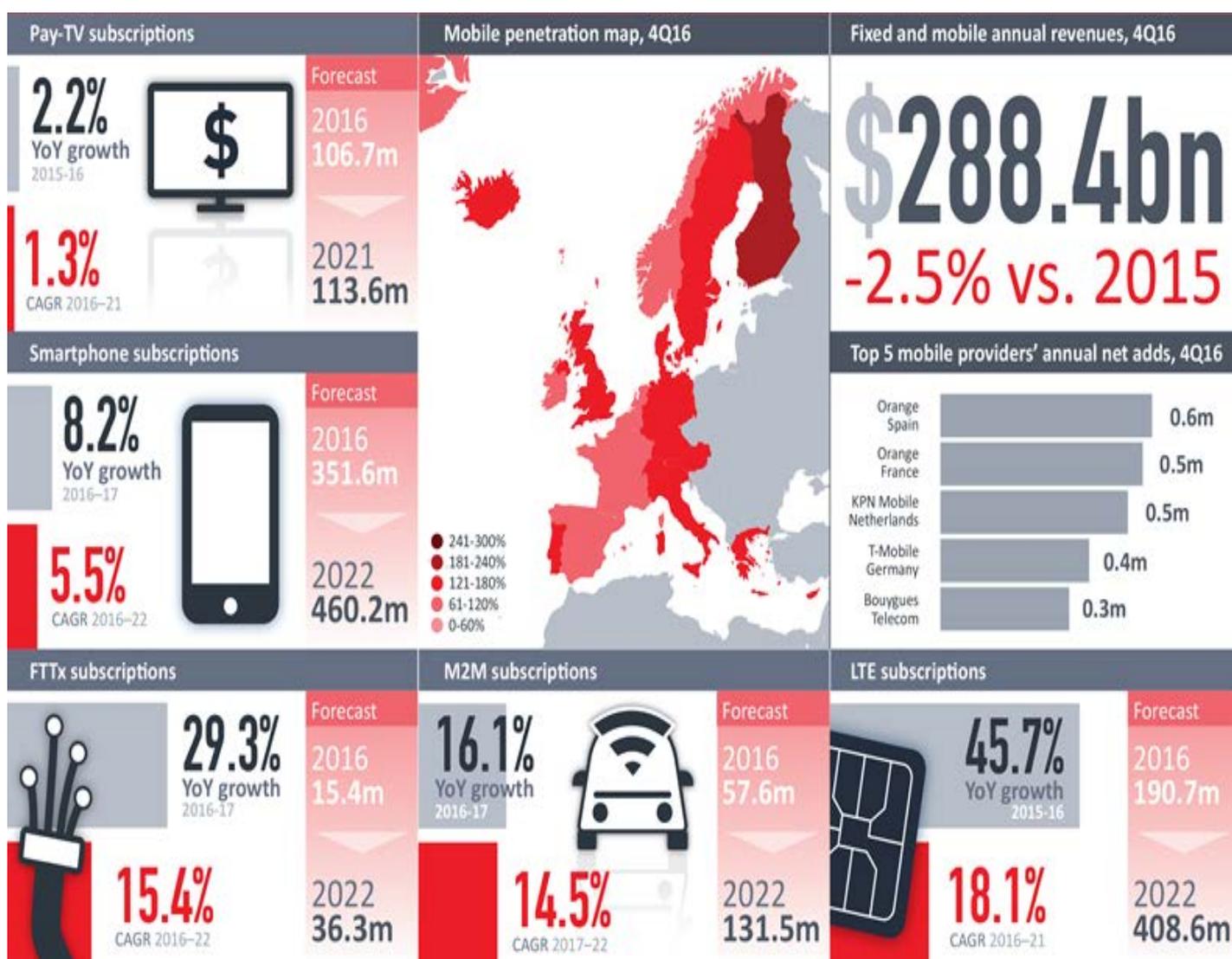


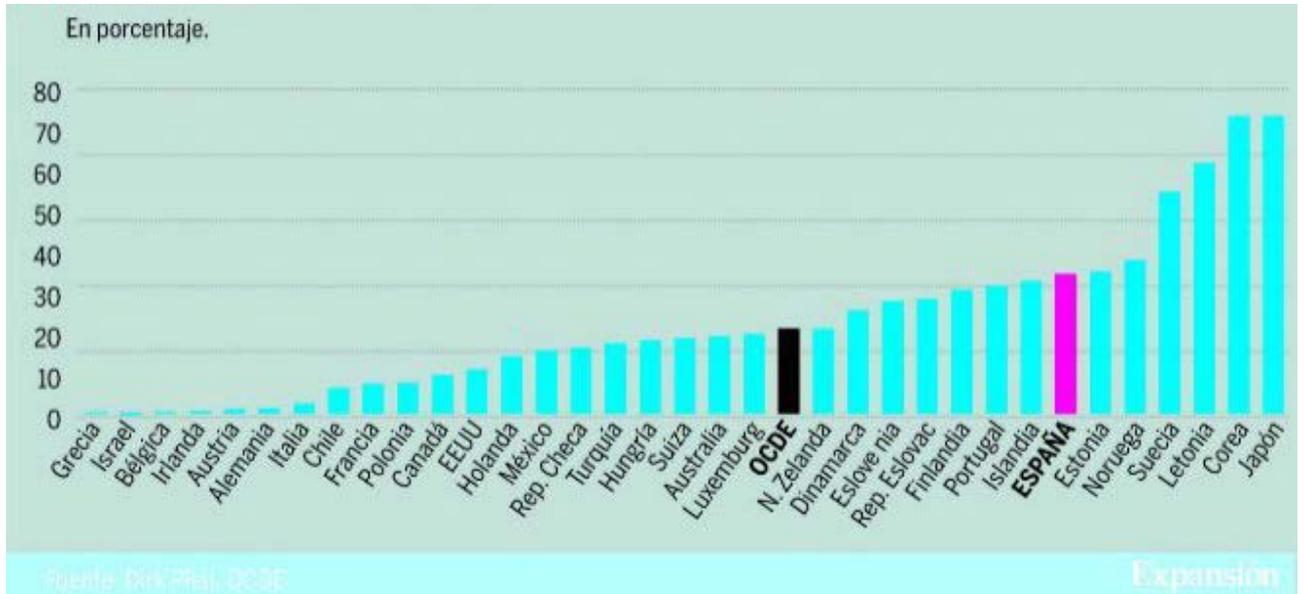
# Informe

## Gráficos, cifras y frases de la quincena vol.87

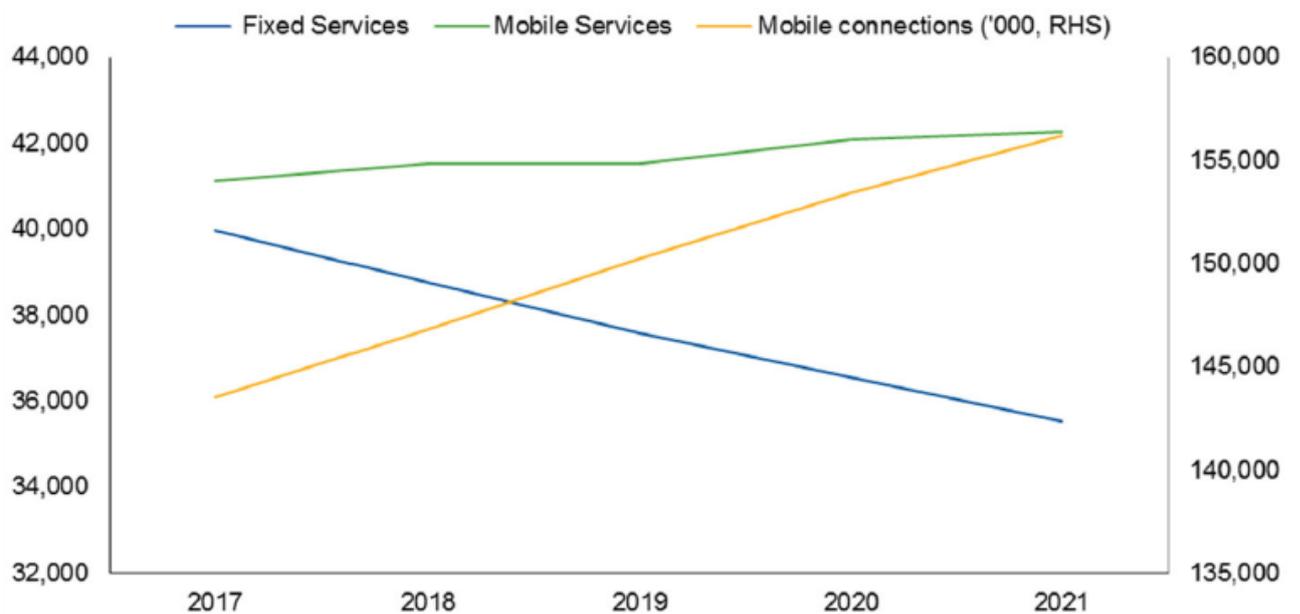
➔ WESTERN EUROPE DASHBOARD, OVUM.



➡ CONEXIONES DE FIBRA SOBRE EL TOTAL DE BANDA ANCHA, CINCO DÍAS.



➡ ENTERPRISE SPEND AND MOBILE CONNECTIONS, EUROPE. GARTNER..



➡ *USE OF INTERNET FOR CULTURAL PURPOSES, BY SEX, 2016 (% OF INDIVIDUALS WHO USED INTERNET IN THE LAST 3 MONTHS), EUROSTAT.*

	Reading online news sites/newspapers/news magazines		Watching internet streamed TV or videos		Listening to music (e.g. web radio)		Playing or downloading games	
	Women	Men	Women	Men	Women	Men	Women	Men
EU-28	68	72	65	70	47	53	32	37
Belgium	63	67	51	59	42	48	41	41
Bulgaria	68	68	44	48	38	43	25	41
Czech Republic	80	83	58	63	44	49	15	37
Denmark	68	75	84	86	58	67	46	47
Germany	68	76	64	74	40	54	31	38
Estonia	88	90	71	80	61	68	23	32
Ireland	46	53	60	67	45	53	22	30
Greece	82	88	63	65	46	48	29	35
Spain	75	80	77	79	54	57	31	34
France	55	57	60	63	46	49	35	36
Croatia	90	91	81	83	28	28	30	36
Italy	58	61	70	75	47	51	28	33
Cyprus	70	76	80	83	47	45	39	46
Latvia	83	85	62	71	47	52	27	33
Lithuania	93	93	65	72	49	54	27	41
Luxembourg	86	92	82	89	53	62	34	36
Hungary	87	89	67	73	56	66	33	46
Malta	80	78	83	81	64	67	41	35
Netherlands	72	79	81	87	36	45	44	45
Austria	62	70	68	75	46	51	26	30
Poland	79	80	49	57	45	51	18	35
Portugal	75	81	74	80	48	50	28	35
Romania	61	65	34	37	47	48	34	45
Slovenia	79	80	70	70	49	47	20	28
Slovakia	74	73	47	54	45	50	24	37
Finland	86	85	86	88	66	69	31	37
Sweden	86	88	86	90	65	73	36	42
United Kingdom	66	69	69	69	55	57	38	37
Norway	94	95	86	86	66	69	30	37
Former Yugoslav Republic of Macedonia	60	70	62	68	54	53	35	40
Turkey	65	73	75	79	63	64	36	44

➡ *“LATAM FIXED BROADBAND PENETRATION TO REACH 13% IN 2022”, DATAXIS.*

➡ *“LICENSED AUDIO STREAMING UP 8% TO 45% OF CONSUMERS”, INTERNATIONAL FEDERATION OF THE PHONOGRAPHIC INDUSTRY’S.*

➔ RESULTADOS 1T2017 DE MÁSMÓVIL, GRUPO MÁSMÓVIL.

(Million €)	1Q16 <sup>(1)</sup>	1Q17	% Growth
<b>Revenue</b>	273.6	296.9	8%
Other operating revenue	1.4	7.6	n.a.
Cost of sales	(227.4)	(231.1)	2%
Other operating expenses	(27.8)	(28.0)	1%
<b>Recurrent EBITDA</b>	<b>19.9</b>	<b>45.3</b>	<b>128%</b>
One Offs	0	(5.0)	n.a.
Reported EBITDA	<b>19.9</b>	<b>40.4</b>	<b>103%</b>
Depreciation and amortization	(22.2)	(28.4)	28%
Reported EBIT	<b>(2.3)</b>	<b>12.0</b>	n.a.
<b>Recurrent EBIT</b>	<b>(2.3)</b>	<b>16.9</b>	n.a.
Net financial expenses	(2.2)	(49.5)	n.a.
<i>o.w. Non-Cash Financial Exp. f/ Minorities Note</i>		(34.0)	
Profit before taxes	(4.5)	(37.5)	n.a.
Income tax	(0.7)	(4.3)	n.a.
<b>Reported Net Income</b>	<b>(5.2)</b>	<b>(41.8)</b>	n.a.
Non-Cash Financial Exp. From Minorities Note		34.0	n.a.
One offs		5.0	n.a.
<b>Recurrent Net Income <sup>(2)</sup></b>	<b>(5.2)</b>	<b>(2.8)</b>	n.a.

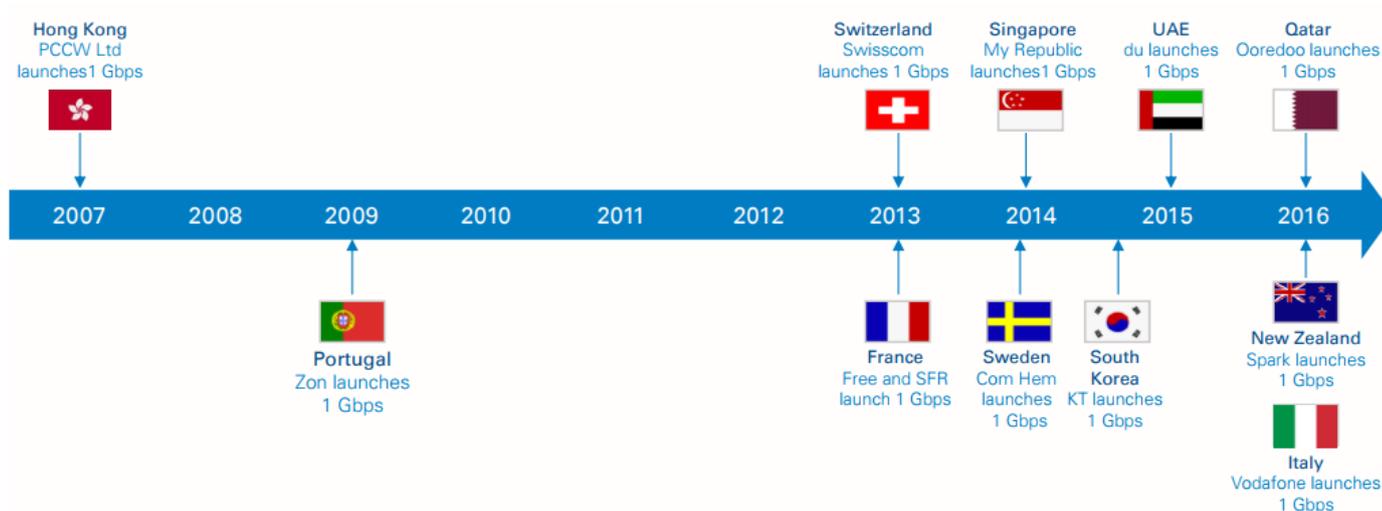
➔ AVAILABILITY OF SUPERFAST BROADBAND, LOCAL AUTHORITY LEVEL, ENGLAND, SCOTLAND AND WALES, JOURNAL OF RURAL STUDIES.

	England			Scotland			Wales					
	Urban	Significantly Rural	Predominantly rural	England	Urban	Rural	Scotland	Urban	Valley	Other	Rural	Wales
Average % availability of superfast broadband	85.0%	70.3%	45.6%	76.3%	65.5%	15.7%	43.7%	84.2%	36.5%	62.4%	14.9%	40.1%

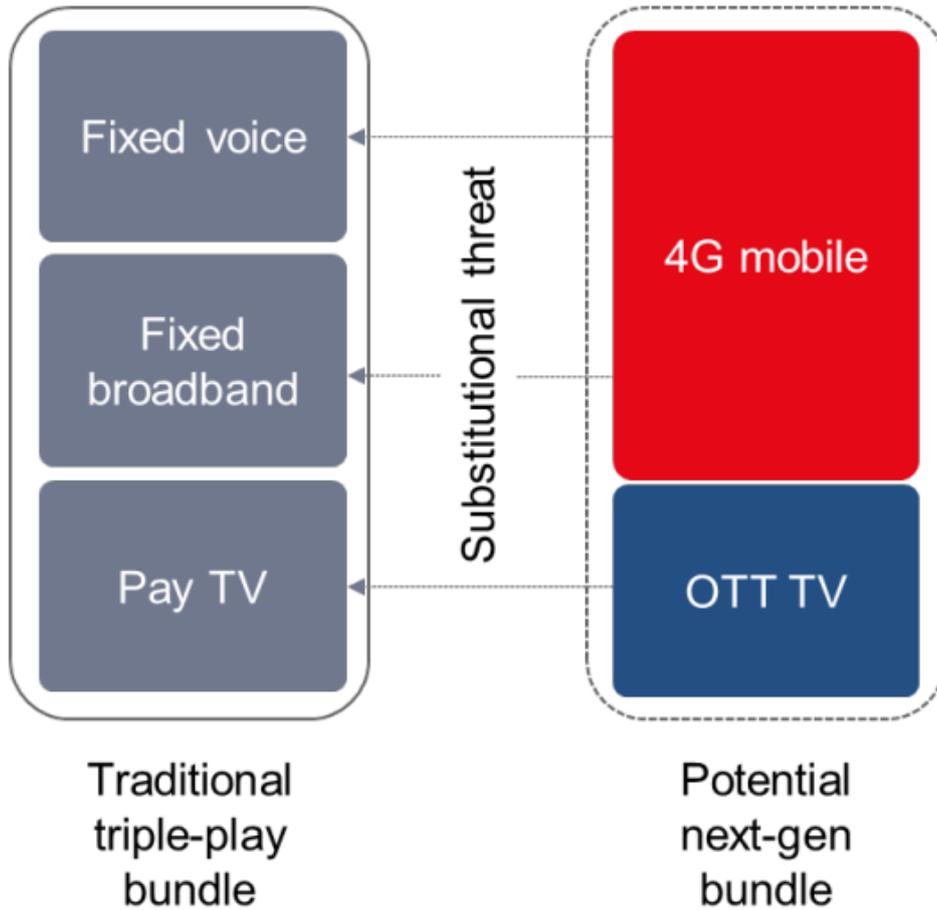
➔ **KPIs DE LOS CUATRO PRINCIPALES OPERADORES ESPAÑOLES, OVUM.**

Last reported quarter	Telefonica	Vodafone	Orange	Masmovil
Total revenues (\$m):	3,267	1,320	1,375	316
Fixed revenues (\$m):	2,095	397	533	14
Fixed broadband subscriptions (millions)	6.1	3.2	4.2	0.2
Market share (%)	42.7	22.8	29.4	1.4
Net subscription additions (000s)	-16.4	72.6	231.3	77
FTTx net additions (000s)	129.4	22.3	196.0	n/a
FTTx market share (%)	59.6	4.8	34.4	n/a
Mobile revenues (\$m)	1,173	922	841	302
Mobile subscriptions (millions)	17.3	14.4	20.7	4.5
Market share (%)	30.4	25.4	36.4	7.9
Net subscription additions (000s)	24	-109	2,352	180
LTE additions (000s)	517	400	300	150
LTE market share (%)	27.8	32.1	34.6	5.5

➔ **LAUNCH OF 1 GBPS OFFERS, TIMELINE, ARTHUR D LITTLE.**



➔ *SUSTITUCIÓN DE LOS EMPAQUETAMIENTOS TRADICIONALES POR NUEVAS TECNOLOGÍAS, OVUM.*



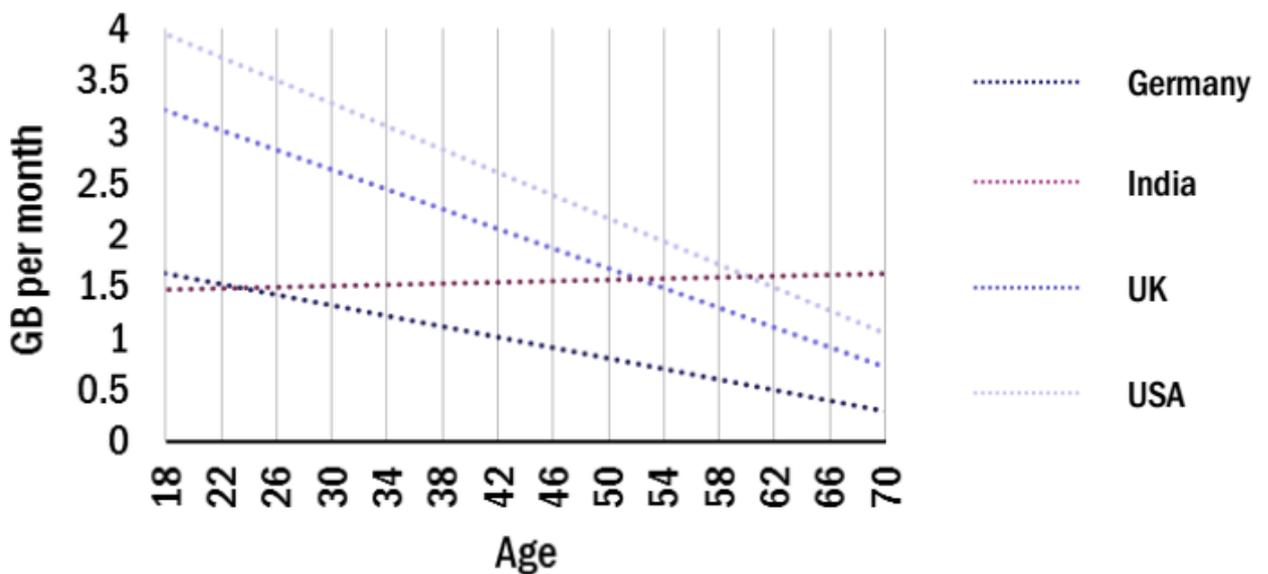
➔ *MOBILE RADIO EVOLUTION, UBS.*

Generation	Multiplexing	Modulation	Coding
1G	FDMA	n/a	n/a
2G	FDMA/TDMA	GMSK/8PSK	BCH
3G	CDMA	QPSK/QAM	Turbo
4G	OFDMA	QPSK/QAM	Turbo/LDPC
5G	OFDMA	QPSK/QAM	Turbo /LDPC/Polar

➔ **VOLUMEN DE NEGOCIO DE LAS GRANDES TECNOLÓGICAS, CINCO DÍAS.**



➔ **CELLULAR DATA USAGE VERSUS AGE, ANALYSYS MASON.**



➔ QUE PASA EN INTERNET EN UN MINUTO, VISUALCAPITALIST.

# 2017 *This Is What Happens In An Internet Minute*



**UGT Comunicaciones**