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# **Fibre Global Perspective**

European Focus on FTTH & place of France

Assises du Très Haut Débit, Paris, July 9<sup>th</sup> 2019



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# O1 FTTx Woldwide Key Trends

#### Key trends worldwide

Superfast technologies<sup>(1)</sup> represented 67% of broadband access subscriptions in June 2018, 5 points more than by December 2017.

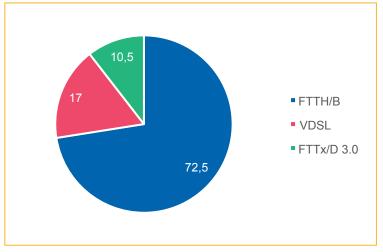
#### > FTTH/B is still the leading superfast broadband solution, far ahead of FTTx/D3.0, followed by VDSL,

FTTH/B represented 72.5% of FTTx subscriptions in June 2018.

**FTTx/D3.0** represented **17% of FTTx subscriptions** at June 2018. The percentage of superfast connections supplied by FTTx/D3.0 is levelling off even though some players are evolving towards **FTTx/D3.1** solutions.

**VDSL** is lagging behind, representing **10.5% of subscriptions** in June 2018. New VDSL or G.Fast solutions are installed at a lower pace.

Breakdown of superfast broadband technologies, June 2018



Source: IDATE DigiWorld, World FTTx market, December 2018

(1) Three main architectures meet our definition of superfast access technology: FTTH/B, FTTN+ VDSL and FTTx/D3.x deployed by cable operators

#### **Breakdown of Superfast broadband technologies**

#### > Disparate regional markets

Asia-Pacific continues its leadership in the FTTH/B market.

FTTH/B experienced a high evolution in Latin America, specially in Brazil and Mexico. New deployments were observed in Asia-Pacific, such as Philippines, Viet Nam and in Middle-East & North Africa.

FTTx/D3.0 is still dominant in North America and is by and large growing more rapidly than other technologies. There is limited room for VDSL (and other copper based technologies such as G.Fast) to grow in Europe where some incumbents are still working to optimise their copper networks.

#### VDSL: 72.3 million subscribers (1) FTTH/B: 500.1 million subscribers North Europe North America 27% America Europe Middle-3% 21% 12% East Latin Africa America

MEA = Middle East and Africa: LATAM = Latin America: APAC = Asia-Pacific: NA = North America: EUR = Western + Eastern Europe (1) 11.8 M FTTx°+LAN subscribers in China are not taken into account.

Source: IDATE DigiWorld, World FTTx market, December 2018

East

Africa

2%

Geographical breakdown of the three main superfast broadband architectures, June 2018 FTTx/D3.0: 117.0 million subscribers 2% 1% Latin Europe America 44% Middle-6% East North America Africa 2% 57% Asia Middle-Pacific Latin Asia 27% Asia

Pacific

82%

Pacific

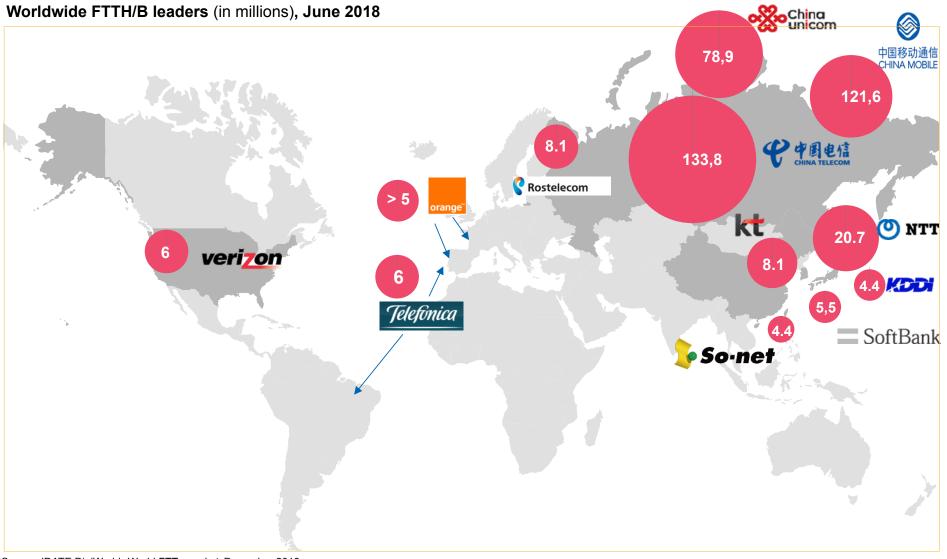
12%

America

2%

689 million FTTx subscribers Worldwide **June 2018** 

#### **Snapshot of the world's leading FTTH/B providers**



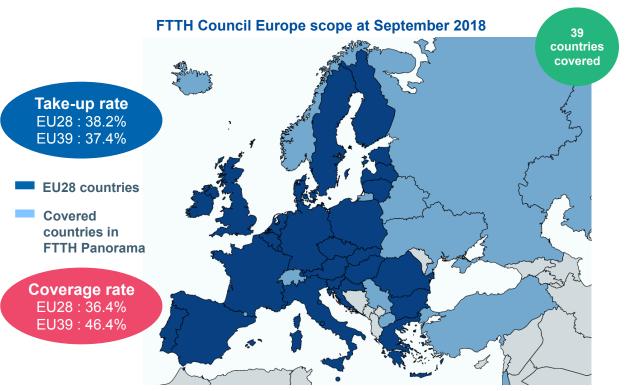
Source: IDATE DigiWorld, World FTTx market, December 2018

# 03 FTTH in Europe

#### FTTH/B figures as at September 2018

As at September 2018 in EU39\*:

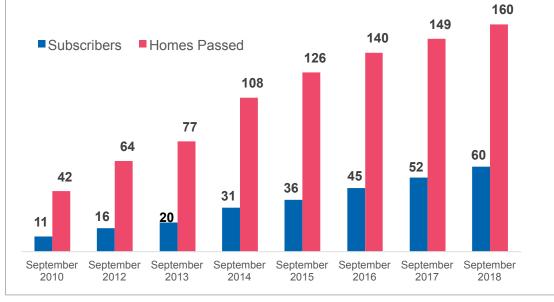
- 59.6 million FTTH/B subscribers
- Almost 160 million FTTH/B Homes Passed



- (1) EU39 = EU28 (excl. Cyprus) + 4 CIS countries + Andorra, Iceland, Israel, Macedonia, Norway, Serbia, Switzerland, Turkey
- (2) Cyprus was replaced by Macedonia at end-2012 because the FTTH/B market is much more developed in this country.



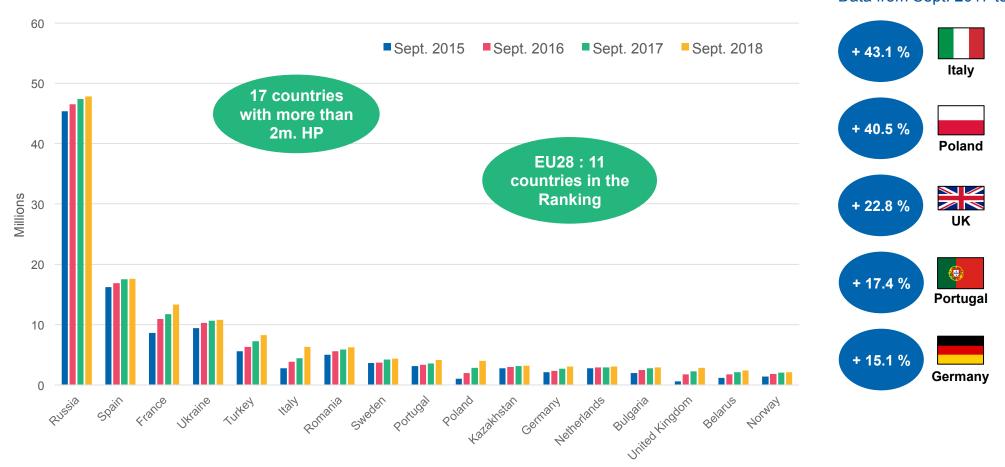




Source: IDATE for FTTH Council EUROPE

#### **General Ranking: FTTH/B Homes passed**

**European ranking in terms of FTTH/B Homes passed over time** (in million homes) Data comparison between Sept. 2015 and Sept. 2018 Top 5 annual growth rates – Homes passed (in %) Data from Sept. 2017 to Sept. 2018



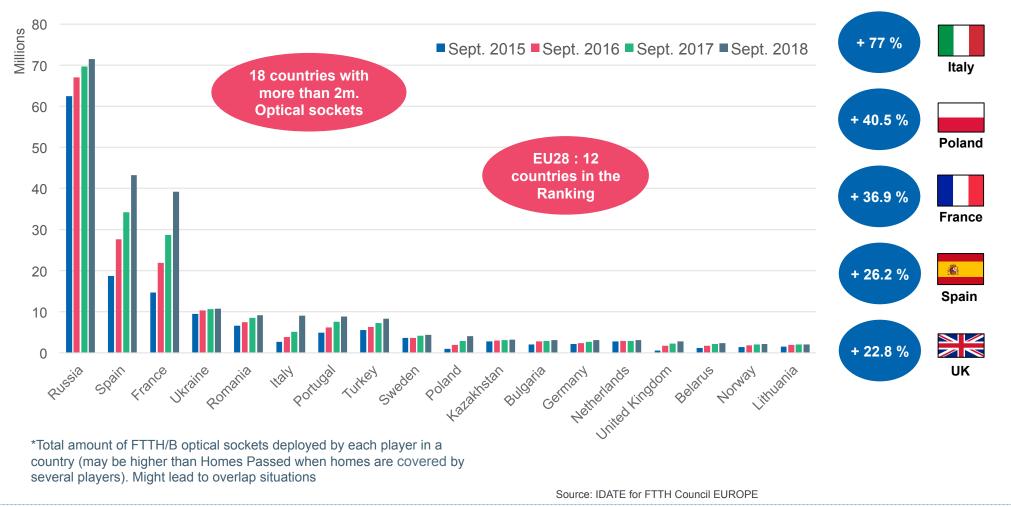
Source: IDATE for FTTH Council EUROPE

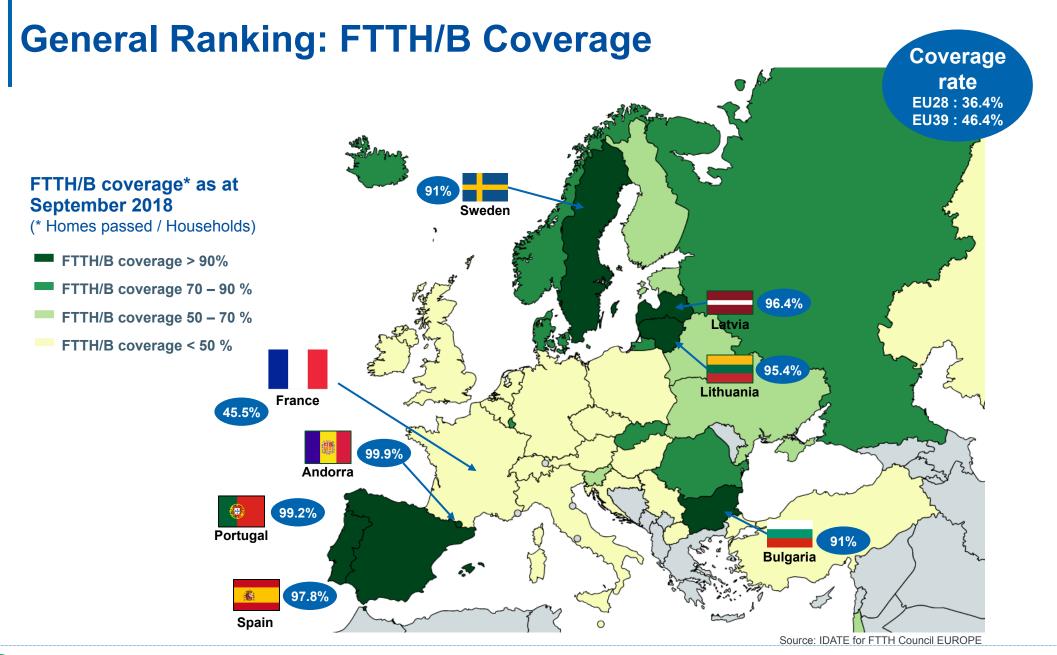
#### General Ranking: FTTH/B Sockets deployed\*

European ranking in terms of FTTH/B Sockets deployed (in million homes)

Data comparison between Sept. 2015 and Sept. 2018

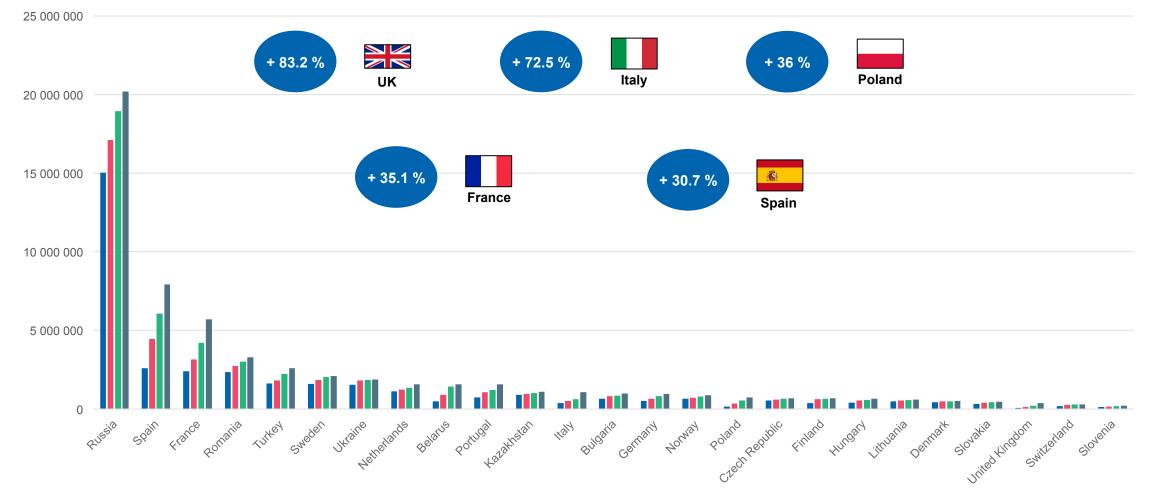
#### Top 5 annual growth rates – Sockets deployed (%) Data from Sept. 2017 to Sept. 2018





### **General Ranking: FTTH/B Subscribers**

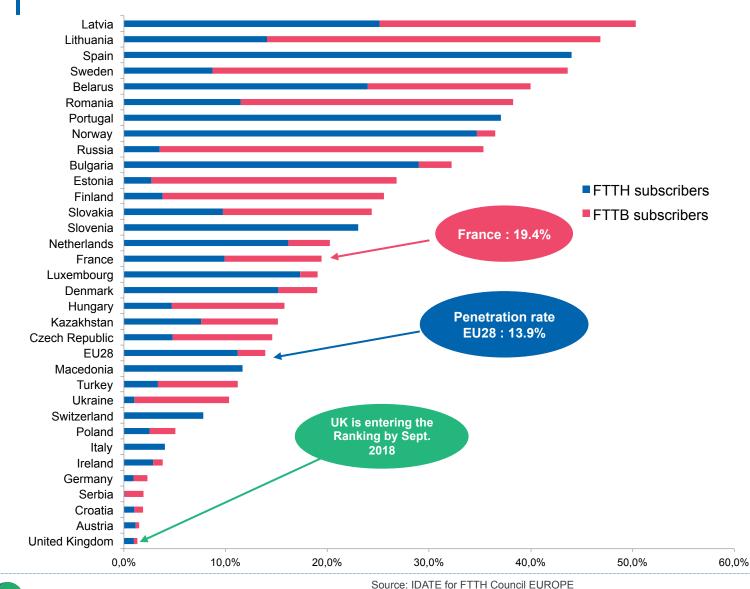
**European ranking in terms of FTTH/B Subscriptions** (million) Data comparison between Sept. 2015 and Sept. 2018



Sept. 2015 Sept. 2016 Sept. 2017 Sept. 2018



#### **European Ranking as at September 2018**



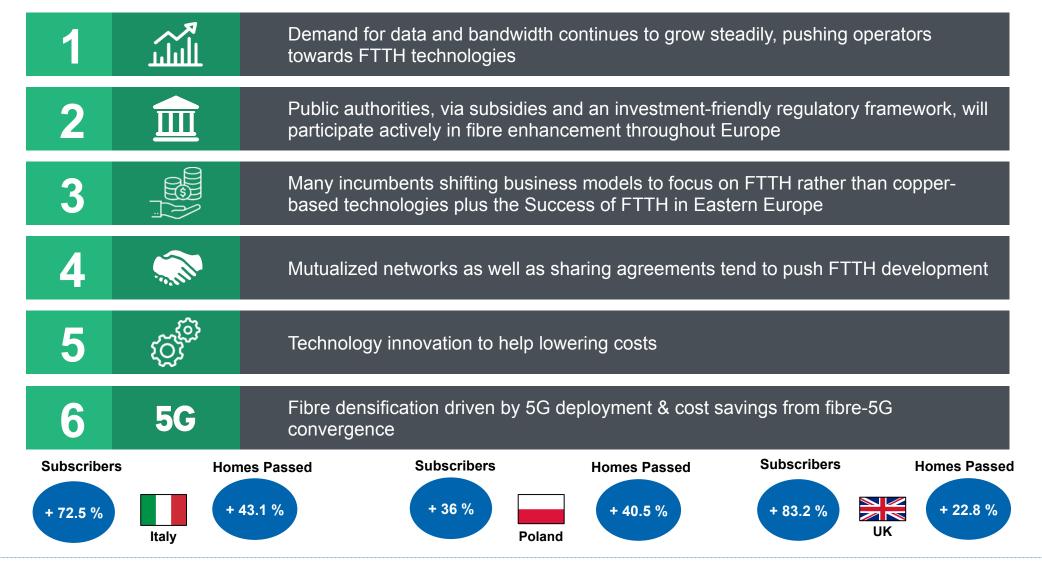
**Penetration rates of European countries at September 2018** (FTTH/B Subscriptions / Households)

- Includes countries of +200k Households in which FTTH/B subscribers represent at least 1% of total households
- Eastern Europe and Nordic countries are among the top of penetration ranks, mainly due to a proactive state intervention towards fibre expansion
- Some major European countries are lagging behind (except. Spain and Portugal) due to a predominance of copper-based technologies (VDSL, G.Fast) and/or cable networks (DOCSIS 3.0 / 3.1)

# **O G Key Conclusions**

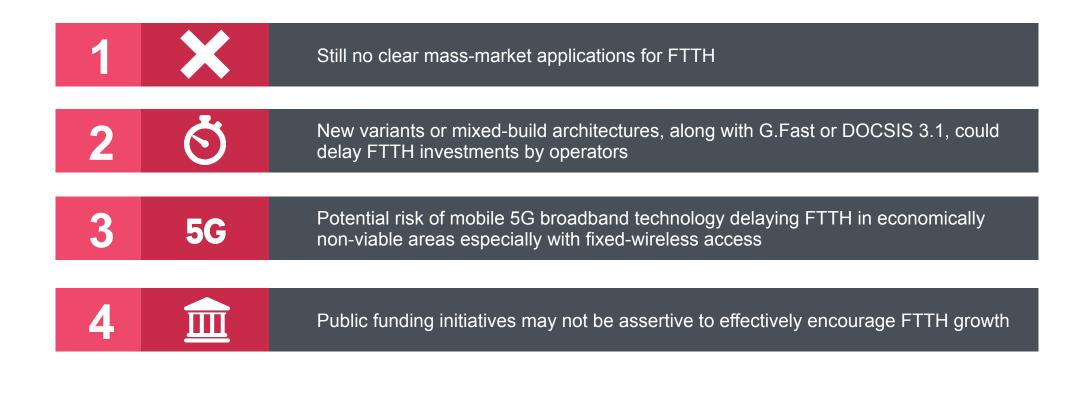
## Indicators affecting the FTTH adoption

Positive criteria



#### Indicators affecting the FTTH adoption

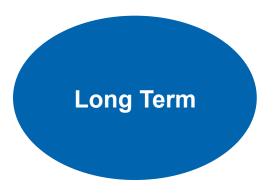
Negative impacts



### **Conclusion: Where's the Growth Worldwide for FTTH?**



- Europe: Germany and the UK : incumbents will react as Altnets and Munis are deploying. Italy : Open Fiber rollouts and role of the Government
- **MENA:** Egypt is today starting large FTTH Rollouts (Telecom Egypt) and **KSA** with massive new cities projects
- LATAM: the very segmented market of Brazil and still Mexico and Argentina ; presence of large pan regional telcos such as Telmex / Claro and Telefonica / Vivo



- APAC: the huge potential of India and South East Asia: Bangladesh, Viet Nam, Pakistan, Cambodia,...
- Sub Saharan Africa: up to 17 countries involved in native FTTH Rollouts

#### **IDATE Research: FTTx & Gigabit Society – Reports & Dataset**

Type of deliverable	Title	Publication date	Unit price (EUR)
Jpcoming public	ations - 1st half 2019 (additional titles for the 2nd half to be ann	ounced)	
Dataset+Report	SDN/NFV and slicing	Q2 2019	3 000
Report	NGA and PPP plans in Europe*	Q2 2019	2 000
Report	Functional Separation	Q2 2019	3 000
Dataset	FTTx markets in Europe	Q2 2019	3 500
Report	Fixed Wireless Access	Q3 2019	3 000
Dataset	FTTx markets in Asia-Pacific	Q2 2019	3 500
Dataset	World FTTx Markets (global)	Q2 2019	5 000
Report	Internet access models in South Africa	Q2 2019	500
Vailable publica		Q1 2019	3 000
Dataset+Report	Telco & OTT Investment challenges - CapEx dynamics		
Dataset+Report	World FTTx Market - Markets at June 2018 & Forecasts to 2022	Q4 2018 Q4 2018	5 000 3 000
Report Report	FTTH: a strategic game-changer for telcos	Q4 2018 Q4 2018	3 000
Dataset+Report	Telco Data Center strategies Business model for an FTTx deployment*	Q3 2018	3 000
Report	FTTH/B Enterprise Market*	Q3 2018	3 000
Report	FTTH rollout strategies in Emerging Countries	Q2 2018	3 000
Report	Media-Telecom Convergence*	Q2 2018	3 000
Report	Super Fast Broadband Outlook	Q2 2018	1 000
Report	Fixed Wireless and Hybrid Access	Q1 2018	2 000
Report	G.Fast	Q4 2017	2 000
Dataset+Report	Virtualisation in telco networks - Which markets for SDN & NFV	Q3 2017	3 000
Report	Monetising fibre*	Q3 2017	3 000
Report	Net Neutrality Regulations and initiatives	Q3 2017	2 000
Report	Broadcast & Broadband TV*	Q2 2017	2 000
Report	Ultra Fast Broadband: What role for public funding?	Q1 2017	1 000
Report	All-IP migration	Q1 2017	1 000
Report	Gigabit Nations*	Q1 2017	1 000

\* Disponible également en version française

Titles and scheduling of upcoming publications are indicative – details for available publications can be accessed online

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