Creating a brighter future

Fibre to the Home: Taking your life to new horizons!

Chris Holden, President of the Board, FTTH Council Europe Hartwig Tauber, Director General, FTTH Council Europe Roland Montagne, Director Telecoms BU, IDATE



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FTTH Council Europe

Our Vision: A sustainable future enabled by Fibre to the Home

Our Mission

 To accelerate FTTH adoption through information and promotion in order to enhance the quality of life, contribute to a better environment and increased competitiveness

Organisation

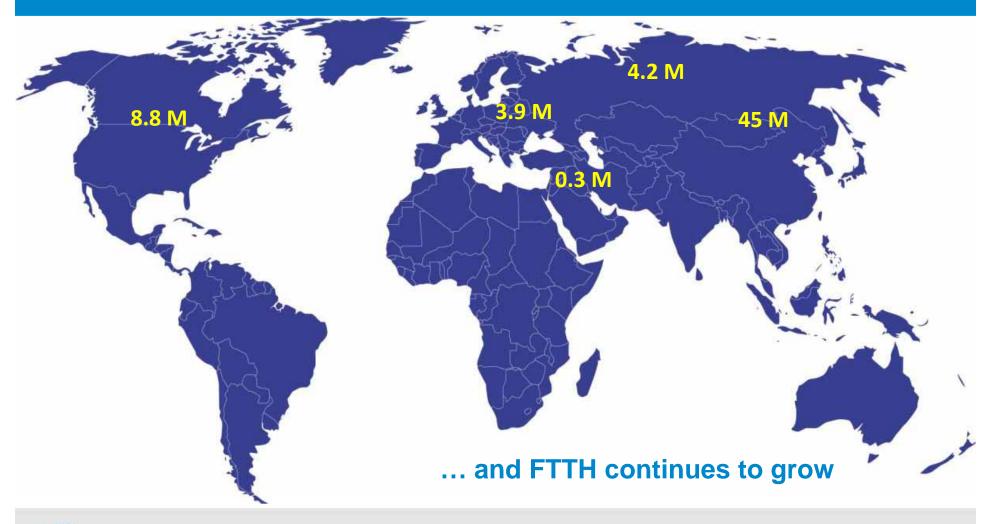
- Founded in 2004, non-profit industry organisation
- More than 150 member companies





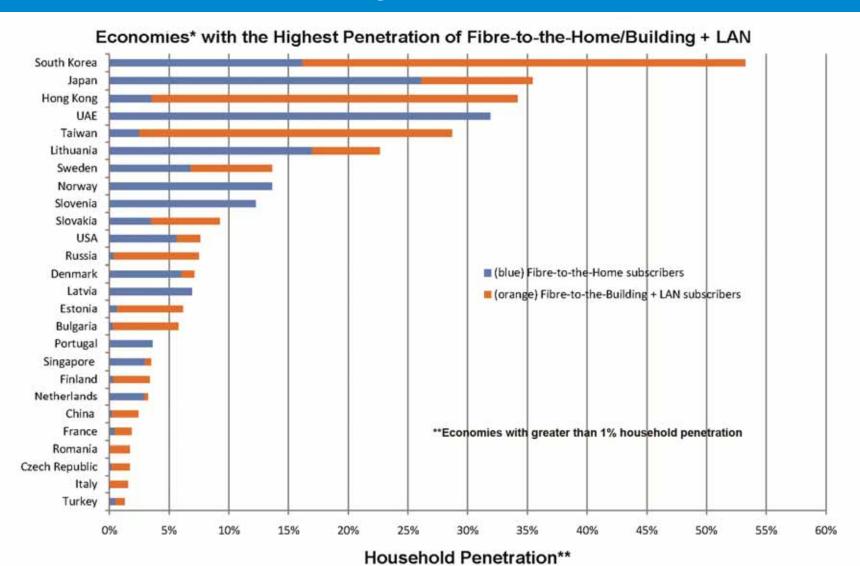


FTTH Global panorama end-2010 – Total subscribers



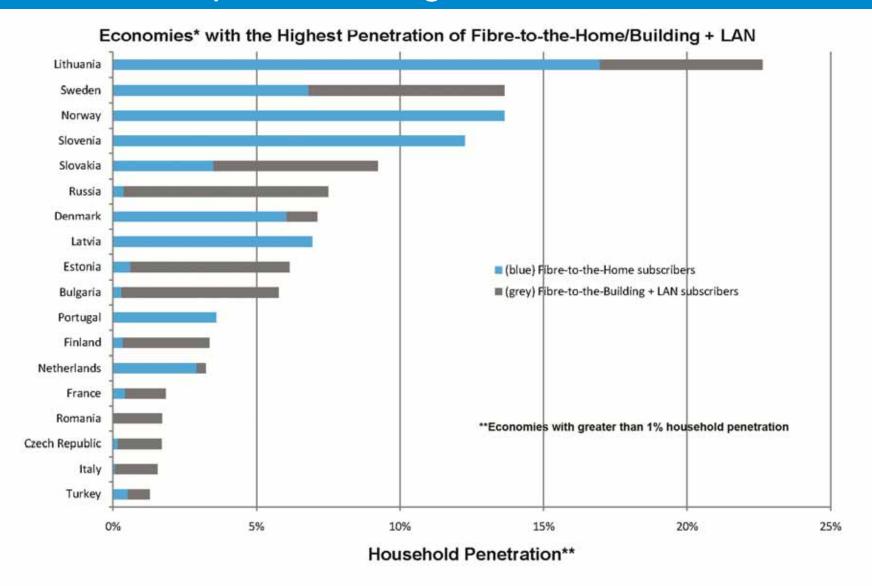


FTTH Global Ranking – end 2010



December 2010 Ranking Source: Fibre-to-the-Home Council February 2011

FTTH European Ranking – end 2010



December 2010 European Ranking Source: FTTH Council Europe February 2011

FTTH European Ranking – end 2010

Highest progressions (>1%) in the European Ranking during 2H2010

► Latvia

+4.4%

► Portugal

+2.2%

► Lithuania

+2%

▶ Slovenia

+1.8%

► Russia

+1.6%

▶ Norway

+1.6%

► Turkey

+1.26%



Source: IDATE for FTTH Council Europe,

Note: FTTH/FTTB definitions by the

February 2011

Global FTTH Councils

FTTH in Europe - end 2010

> 3.9 million FTTH/B subscribers

(+ 4.2 million in Russia)

Source: IDATE for FTTH Council Europe, February 2011 Note: FTTH/FTTB definitions by

the Global FTTH Councils

> 22.3 million Homes Passed

(+ 10.6 million in Russia)

Average penetration rate: 17,5%

Growth rates 2H2010 (excluding Russia)

+18% FTTH/B Subscribers (vs 19% 1H2010)

+23% FTTH/B Homes Passed (vs +5% 1H2010)



Expanding FTTH/B coverage is still an issue for players



(1) Our figures have already been processed to avoid overestimating homes passed when one home is passed by several operators in some countries.

Countries with more than 200,000 subscribers

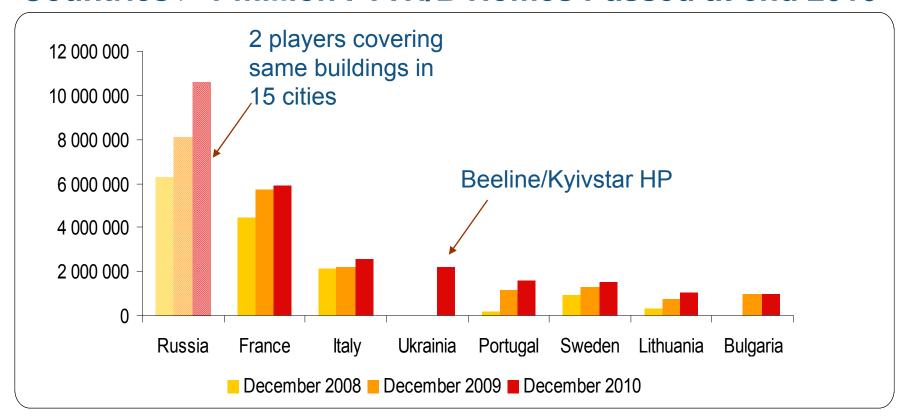


Source: FTTH European Ranking, IDATE for FTTH Council Europe, February 2011 Note: FTTH/FTTB definitions by the Global FTTH Councils



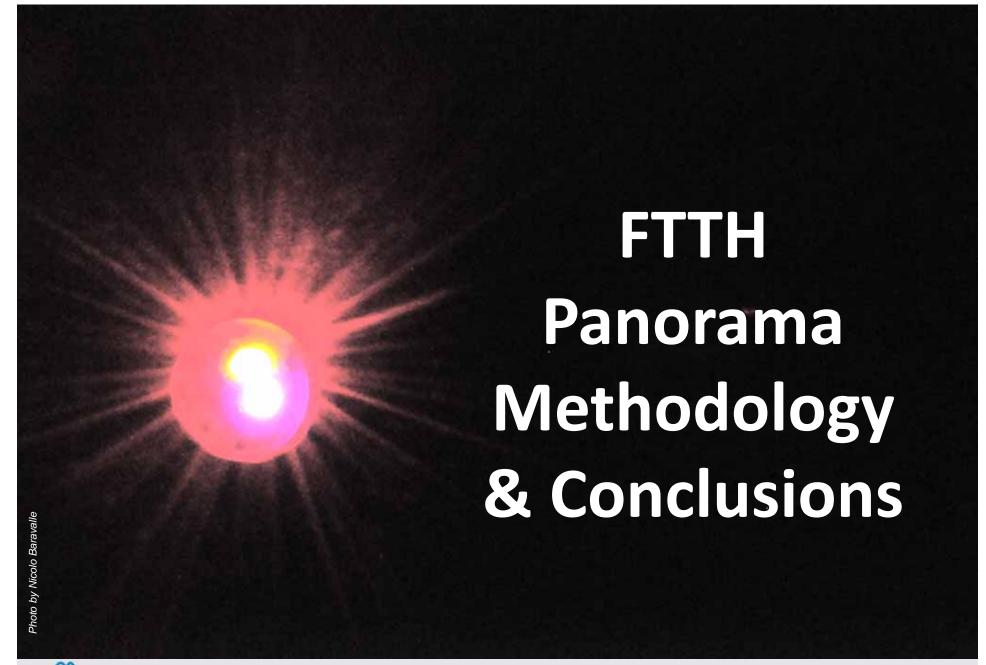
FTTH homes passed in Europe – mid-2010

Countries > 1 million FTTH/B Homes Passed at end 2010



Source: FTTH European Ranking, IDATE for FTTH Council Europe, February 2011 Note: FTTH/FTTB definitions by the Global FTTH Councils







FTTH Panorama - Methodology

- Deliverable:
 - Comprehensive overview of FTTH deployments in <u>Europe 36</u> (EU 27 + Norway, Iceland, Switzerland, Andorra, Russia, Ukraine, Croatia, Serbia and Turkey) and in <u>14 Middle East countries</u>
- Methodology:
 - Desk research
 - Direct contacts with FTTH players
 - Information exchange with FTTH Council Europe members
 - Direct contacts with IDATE's partners in several European countries



FTTH Definitions

INCLUDED

- FTTHome Complete Fibre Path to Home
 - in-building cables: house copper or fibre or wireless
- FTTBuilding Fibre to Apartment/Office Building
 - in-building cables: building copper or fibre regarded as a transitional stage to FTTH
- Both defined in global FTTH Councils, FTTH Definitions Document www.ftthcouncil.eu/documents/studies/FTTH-Definitions-Revision_January_2009.pdf

NOT INCLUDED

- FTTCurb / FTTNode Fibre to Street Cabinet
 - distribution and drop cables using telco copper (DSL) or new copper
 - categorised as DSL technologies.



FTTH players

▶ 3 main categories involved in FTTH/B deployments

Municipalities & Utilities

More numerous

Local deployments only

Alternative operators / MSOs

Most dynamic

National or local deployments

European incumbents

Challenged on BB

National deployments



8% of total FTTH/B Homes Passed at end 2010



73% of total FTTH/B
Homes Passed at
end 2010



19% of total FTTH/B Homes Passed at end 2010



FTTH Players

- Decrease in Homes Passed by Municipalities & Utilities
- Projects getting aggregated in Northern European countries:
 - Stedenlink in Netherlands, Netixopen in Finland, Waoo in Denmark
- Several objectives
 - Knowledge sharing
 - Improvement in operating FTTH/B networks
 - Respect of coverage targets
 - Branding & mutualisation of services offers to end users (Waoo)



FTTH Technologies

- In December 2010, the main architecture deployed is still FTTB
- Regarding technology, players have mainly chosen Ethernet
- MDUs are still the principal target for Fibre deployments in Europe

Main architecture deployed (homes passed segmentation)	Dec 2010	June 2010	Dec 09
FTTH	37%	34%	33%
FTTB	63%	66%	67%

Main technology deployed (homes passed segmentation)	Dec 2010	June 2010	Dec 09
PON	27%	26%	24%
Ethernet	73%	74%	76%

Dwellings deployed (homes passed segmentation)	Dec 2010	June 2010	Dec 2009
MDU	77%	76%	75%
SDU	23%	24%	25%



Main conclusions for FTTH

- ► Steady growth of European FTTH/B market (+40% in subscribers Y2010)
- ► Future growth to be led by Eastern European countries (incl. Russia)
- ► Turkey new entrant in the European Ranking
 - Italy, France & Russia are no more the only large economies in the EU ranking
- ► European incumbents getting more concerned by FTTH
 - Nearly all have a plan for FTTH or are deploying
 - 73% of Homes Passed by Alternative operators & MSOs
- ► National plans take over local initiatives and trigger players' announcements



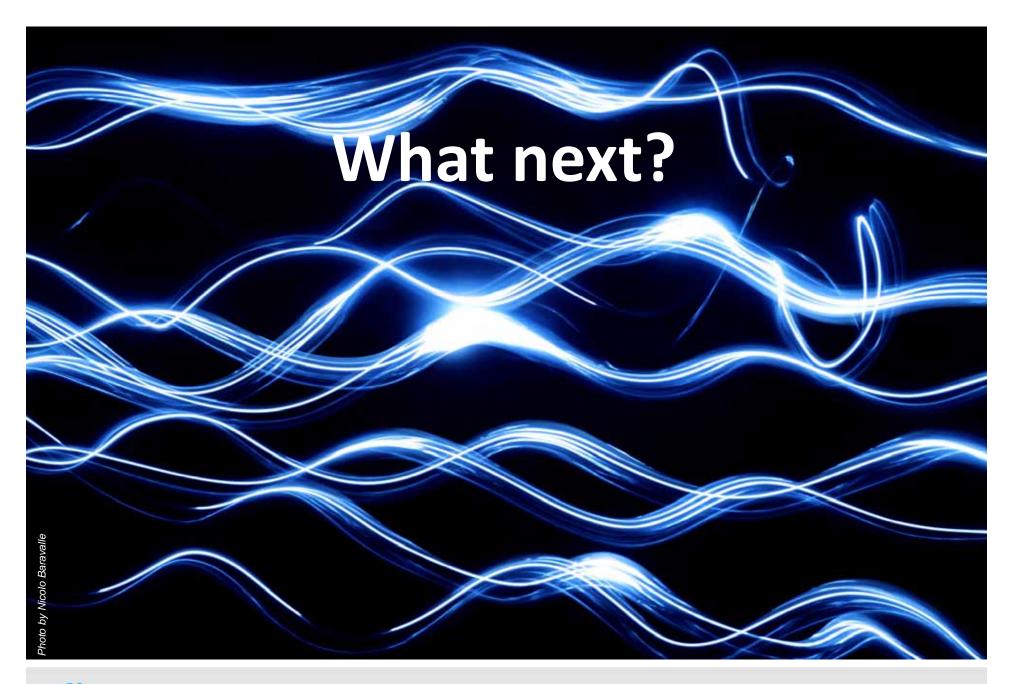
Main challenges for FTTH

- ► FTTH benefits are not perceived by Consumers / Businesses Especially in Europe: low penetration rate!
 - At mid 2010: Japan at 39%, USA at 34%
 - And Europe at end 2010: 17.5% ... France: 8% !!
- ► Property Managers: interest to arouse
 In Europe: 63% of FTTB Homes Passed at end 2010
- ► FTTH business: sometimes too complex to run for Municipalities/Utilities
 Main Danish regional Power Utility (Dong Energy) resold its FTTH
 activity to the incumbent TDC
- ➤ Co-investment: the key for large scale national roll-out?

 Announcements by main players in Italy, Switzerland, France

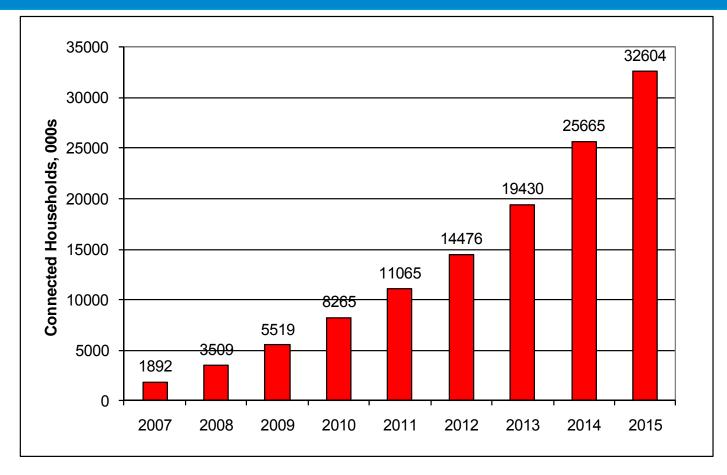
 One objective: covering non dense areas







European Region FTTH Forecast

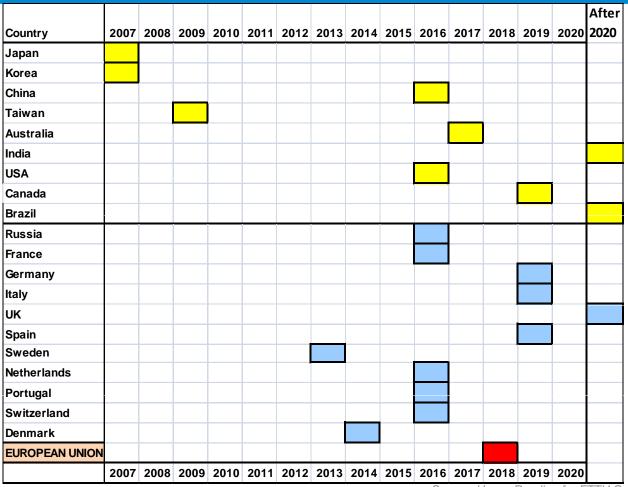


Source: Heavy Reading for FTTH Council Europe, February 2011

Note: Households connected directly to fibre (FTTH) and apartments connected via basement fibre termination (FTTB)



Europe in Context: the Race to Fibre Maturity





Source: Heavy Reading for FTTH Council Europe, February 2011

Summary

- Over 32m households connected to FTTH/B at end-2015 in countries covered by this forecast = about 11% of all homes in the region
- In the EU only, the total will touch 19m, or 10% of all homes
- Seven of the 21 nations analyzed should achieve "fibre maturity" (20% penetration) by 2015: Slovenia, Sweden, Denmark, Norway, Finland, Portugal and Slovakia. Five more should reach this figure by 2016
- Seven of the 21 nations still under 10% penetration at end-2015:
 Greece, UK, Poland, Belgium, Spain, Germany, Italy and Czech Rep
- Unlike most other regions, incumbents are not currently the major providers of FTTH, and this will remain the case
- The most striking feature of the market through the next five years will be its fragmentation across every dimension

European Commission Digital Agenda: 50% of European households connected to 100 Mbps by 2020



Thank you for your attention!

www.ftthcouncil.eu

