

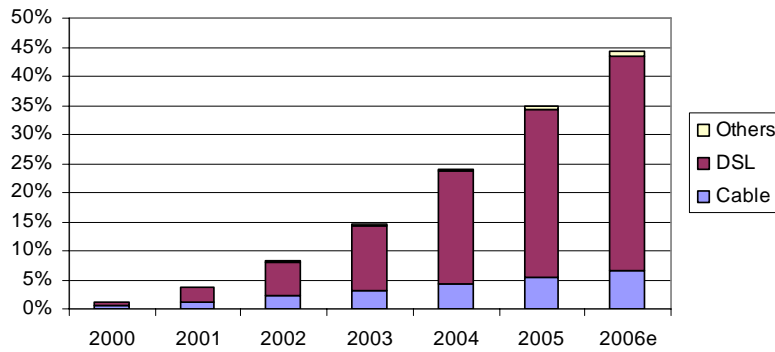
# The state of broadband - Europe

Jacques Champeaux

Trans Atlantic Telecom Dialogue – October 20, 2006



## Broadband penetration soars in Europe

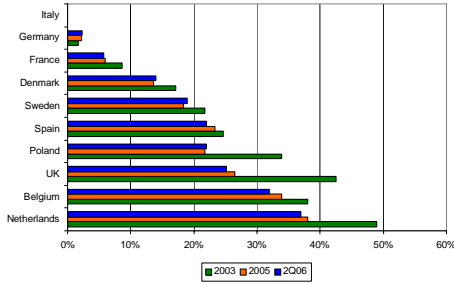


BB penetration as a pc of households, Strategy Analytics, Western Europe

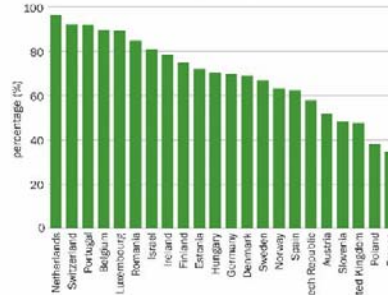


# Cable is below its market potential

Cable BB market share



Homes passed by Cable of Total Homes (YE 2005)



Source: Screen Digest/Cable Europe Yearbook

DSL dominates cable in Europe  
% cable market share is declining

Cable cover 60% + households in Europe



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# The broadband market is quickly moving to multiplay offers

## France

from **30 Euros / month** :

**BB** (up to 20 Mb/S)

+ **VOIP** (unlimited fixed to fixed traffic in France/Europe)

+ **TV** (100 to 200 free channels)

+ **line rental**

## UK

**15 £ / month** : BB + fixed traffic

**20 £ / month** : BB + fixed traffic + TV

**30 £ / month** : BB + fixed traffic + TV + line rental



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## In France, TV on ADSL will be significant end 2006

Between 1,5 and 2 M households with IP TV on ADSL at the end 2006

Number of subscribers tripled in one year

More than 10% of households early in 2007



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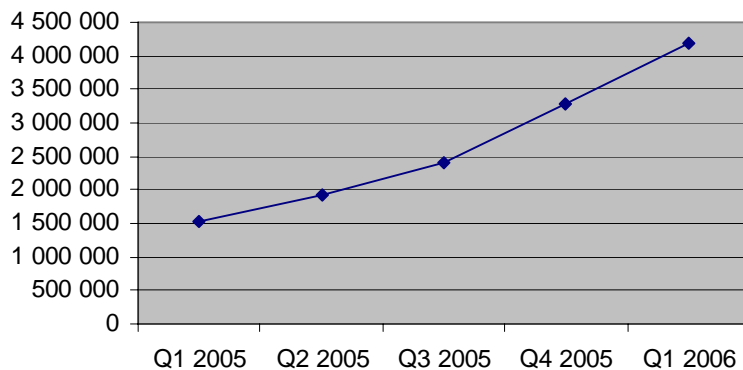
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## VOIP is booming in France : more than 20 % households (source Arcep)

VoBB Subscriber in France



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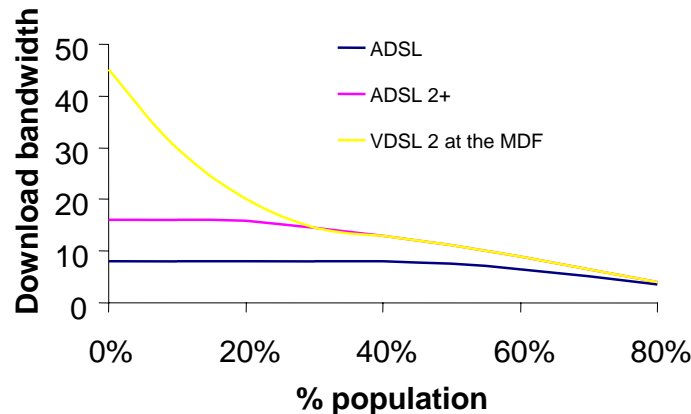
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## But bandwidth limits on copper local loops will restrict availability of multiplay

### xDSL on France Télécom LL



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## Investments and convergence are driving a (vert/horiz) consolidation of the industry

Need for bandwidth will exceed the potential of the copper loop

⇒ Investments in fiber in the loop will be needed and economically justified

### Market consolidation throughout Europe :

- 3 main operators on French fixed mass market : FT+ 2 LLU based CLECs (Free, Neuf Cegetel)
- Mobile – Internet consolidation, e.g.
  - France : SFR (Mobile) buys Télé 2 France
  - UK : Phone House buys AOL UK, NTL buys Virgin mobile
- Fixed access – Content consolidation, e.g.
  - UK : Sky buys Easynet



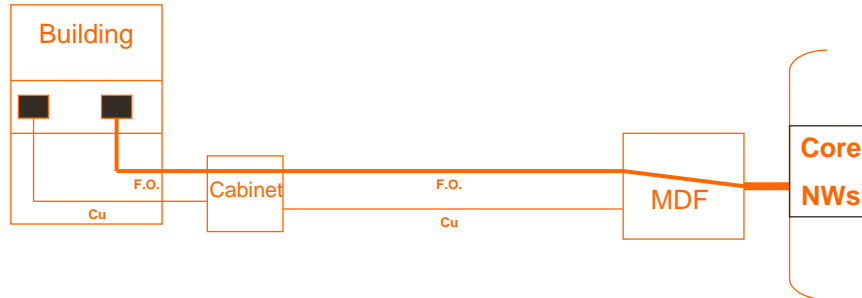
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## Broadband access – FTTH – French case



Overlay network vs copper  
No technical impact on unbundling



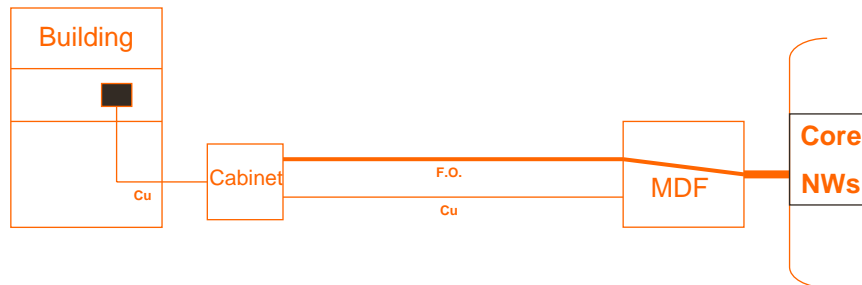
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## Broadband access -VDSL - German case



Overlay network for broadband  
Potential interferences with unbundled pairs



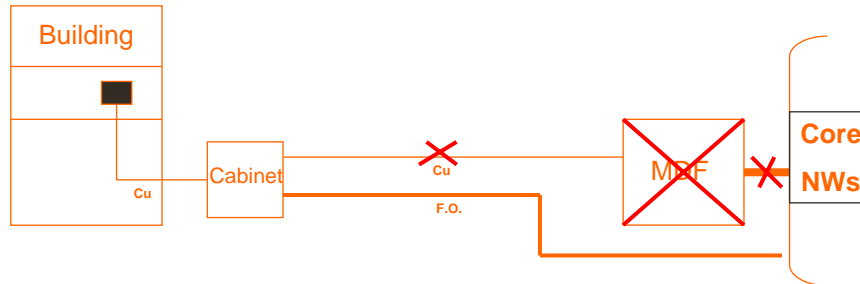
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## Broadband access - All NGN – Dutch case



Big bang : NGN substitutes to old network for all customers  
Existing unbundling nodes disappear !



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## The review of the ERF : the European debate around NGN

### European Commission/CLECs:

- sound regulatory framework
- no opposition between regulation and investment
- technological neutrality justifies extension of copper regulation to new technologies
- mobile sector eligible to ex-ante regulation (“UNE-M”)
- forms of “structural separation”

### European integrated operators:

- self-fulfilling regulation
- regulation deters investment in NGNs
- regulation should focus on legacy bottlenecks
- extension of regulation to competitively-born networks makes no sense
- separation not economically efficient



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## Economists are rating (poorly) the EU...

**Arthur D. Little:** "policy makers face a choice between protecting competition in static markets by regulation or accelerating market effects by deregulation"

**HSBC:** "EC has the balance wrong...This discourages the investment in infrastructure"

**Indepen & OVUM:** "there is a need for policy change: operators will need a regulatory framework which gives assurances that, if risky investment succeeds, the return will not be regulated away"

**McKinsey:** "the system has not been designed to address new infrastructure investments ...Less, not more, regulation is likely to be required to allow market forces to flourish"



## Is platform competition sustainable ?

**Civil works is the only true bottleneck**

**Alternate platforms exist**

- Cable is ready
- Alternate platforms need not all be the same to be substitutes for the customer
- Triple play can be offered on single or multiple platform

**Geographical digital divide & Universal service definition**

- No problem with carrier selection
- Significant divide with unbundling
- Potentially structural with new access network





Thank you!