



NGN in The Netherlands: the market and regulation Geneva, 8 September 2008

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Business case of NGN is not proven yet;

Legacy regulation has high impact on business case

It should not be automatically extended to NGN





Market developments





Dynamic market situation

18% Mobile-only households 75% Broadband penetration

High VoIP penetration





Marketshares The NL



Market Shares Consumer Market in % (indicative/management estimates)



Tariffs in the Multiplay market

Telfort Casema

€ 19,95 € 69,95 tot 20 Mb/s 20 Mb/s

€9,95 voice incl voice

UPC

€60,00 24 Mb/s

Voice include



Internetsnelheid	Tot 20Mb/s	Tot 20Mb/s
Bellen	Bellen tegen voordelige Tele2 tarieven.	GRATIS naar vaste nummers in Nederland
Actie eerste 6 maanden	€14,95 p/mnd	€24,95 p/mnd
Abonnement	[€] 29,95 p/mnd	[€] 39,95 p/mnd





Next steps: FttC and FttH?



Change of mindshift KPN

- Market developments:
 - -High churn to cable;
 - -Television is crucial for Multiplay;
 - -IP-technology



Upgrade of the network: – VDSL by Fiber-to-the-Curb; – Fiber-to-the-Home? Business Model: •Multiplay; •Open wholesale



Upgrade of the network: FttC FttH: local projects in 2008-2009





Business model: Multiplay FttC vs fttH

- Investment
 - FttC € 300 per HH
 - FttH €1000 per HH
- Technology:
 - FttC (VDSL): most HH have 30Mb download
 - FttH: 100 Mb plus 'analogue television
- ARPU:
 - Current ARPU approx. €40 p/m
 - With 60% penetration ARPU has to raise to €60 p/m





FttH is not yet 'proven'

Economies with the Highest Penetration of Fiber-to-the-Home / Building+LAN



Year-End 2007 Ranking Source: Fiber-to-the-Home Council Feb 08



Economies where majority architecture is **Fiber-to-the-Home**



Economies where majority architecture is **Fiber-to-the-Building+LAN**



Business model: Open wholesale model





Open wholesale model;



www.kpn-wholesale.com/all ip/mdf migration offer

- MDF access;
- Migration from MDF to WBA and/or SLU
- Wholesale Broadband Access (WBA) via copper and fiber:
 - VLAN between service platform and enduser;
 - Broadcast WBA will also be available
 - The Wholesale customer determines capacity, QoS, redundancy, transparancy of the VLAN;
 - Available on 3 network levels
 - WBA is a public offer of KPN on a non-discriminatory basis
- Sub Loop Unbundling (SLU) for copper
 - A Reference offer is made by KPN
 - Backhaul service is provided by KPN





Regulatory challenges



No more justification for legacy regulation





The impact of regulation on business case NGN;







Universal service obligation should be modernised

- Availablity:
 - USO obligations should be technology neutral;
 - Everyone should be served with the best cost efficient technology
 - Wireless;
 - Fibre;
 - Copper
- Affordability:
 - Investment in NGN is based on ARPU of Multiplay
 - What to do with the cost of Voice-only service over NGN?
- Which layer is regulated?
 - Service provider?
 - Active operator?
 - Infrastructure provider?



Regulation of NGN access

- NGN is new and not 100 years around like the PTT network;
- 3 years regulation periods do not give certainty for investments;
- How to determine the costprice of a new service at the start when there is low penetration;
- How to deal with high penetration;
 - high margins (when?);
 - Cost price regulation should not deter investment





Legacy regulation

Legacy regulation:

- Unbundled local loop;
- Call originatio/CPS;
- Wholesale Line Rental;
- Leased lines

Low use of copper: high costprice

- Dismantling of copper should be allowed (OPTA accepts)
- Increasing costprice of copper (OPTA does not accept)

Goal should be: stimulation of migration





Thank you for your attention

