GRUPPO TELECOM TIALIA

Tomorrow's Networks Today

Saint Vincent October the 7° 2005

Converged Networks: the key to achieve triple play

Massimo Coronaro









Agenda

▶ Convergent services and strategies

▶ Network evolution towards ICT & Fixed Mobile convergence









Network & service strategy: a new concept of "quadruple play"

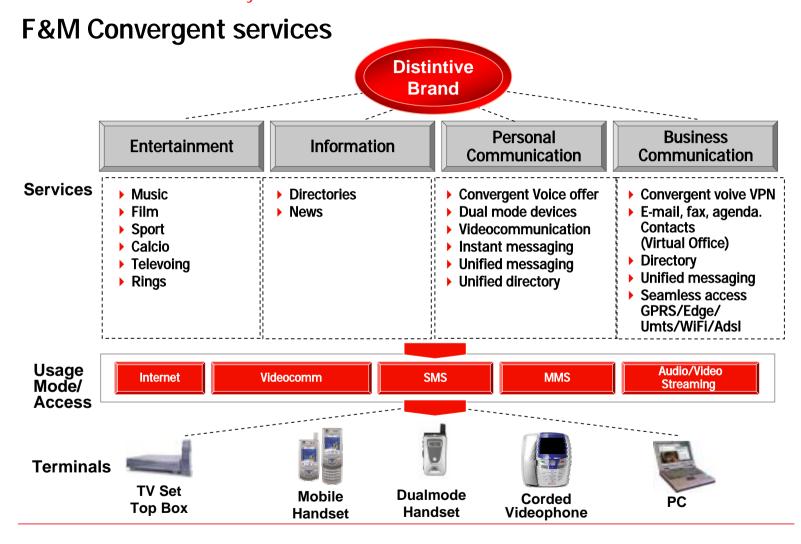
Mass Market services BusinessMarket services Communication Communication **▶** VoIP **▶ VoIP** Videocommunication ▶ IP Centrex ▶ Collaboration & Messaging ▶ IP PBX & Contact Center Internet ► Information Services Instant Unified Messaging Intranet & Collaboration ▶ Media Messaging Media Application on demand ▶ Media Video Music Business TV GI Games E-learning Fixed



















Multimedia convergent services : PC & TV based entertainment

From PC...







4 Mega

Internet

access ...

Alice

Content on PC and TV

Internet	▶ Browsing, mail, (etc.), available on PC and TV	
Sport	 Live "Serie A" soccer matches (rights acquired up to 2007) Key live events 	
Movies	▶ 310 Movies each year, a 200 titles catalogue and 20/30 new titles/month	
Music	▶ 400,000 songs library, concerts and live events	Further technological integration with DTT
PPV	▶ Live Soccer, Basket, Sailing, Reality Shows, Movies	
		(set top box)

- June 05 pre-commercial launch in 4 cities: Roma, Milano, Palermo, Bologna
- 4Q '05- extension to other 17 cities (20% of Italian families, 3.6 million lines) and integrated IPTV/DTT STB
- 2006-2007: further coverage extension









Multimedia Convergent Services: BB experience in the mobile world

Entertainment

- ✓ Mobile TV
- ✓ Multiplayer Gaming
- ✓ Serie A TIM (Football)
- ✓ i.Music Store
 (library, concerts and live events)
- **✓ Surfing Internet**



Access to the services via the TIM WAP 3G Portal (xHTML)



Wherever you are!

A New Way to Communicate!

Personal Communication



- √ File/Video Sharing
- √ VideoCall
- **✓** Community
- ✓ Push to talk

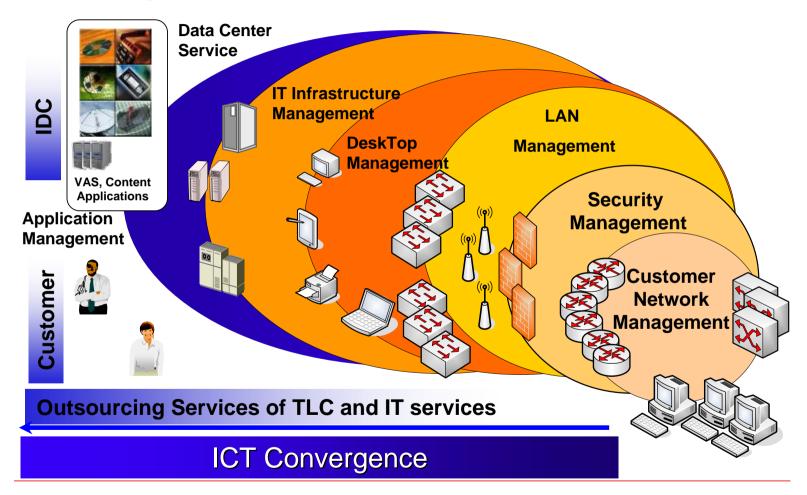








ICT Convergent services: to complement the business services offer











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► Convergent services and strategies

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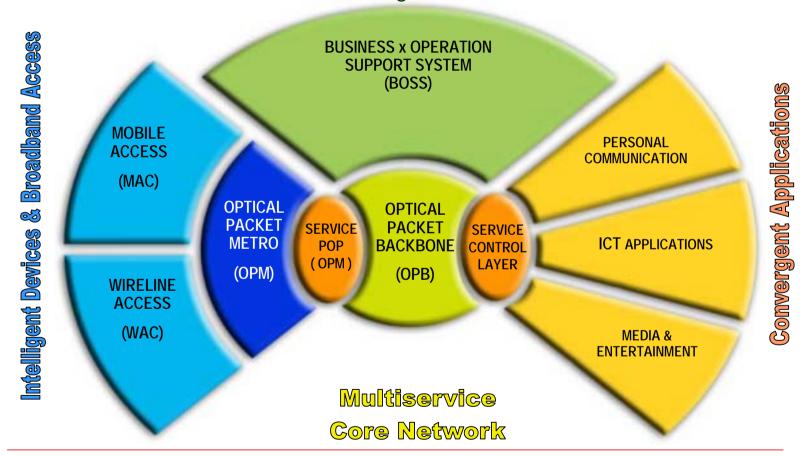






New Network Convergent Model

Service Management Platform



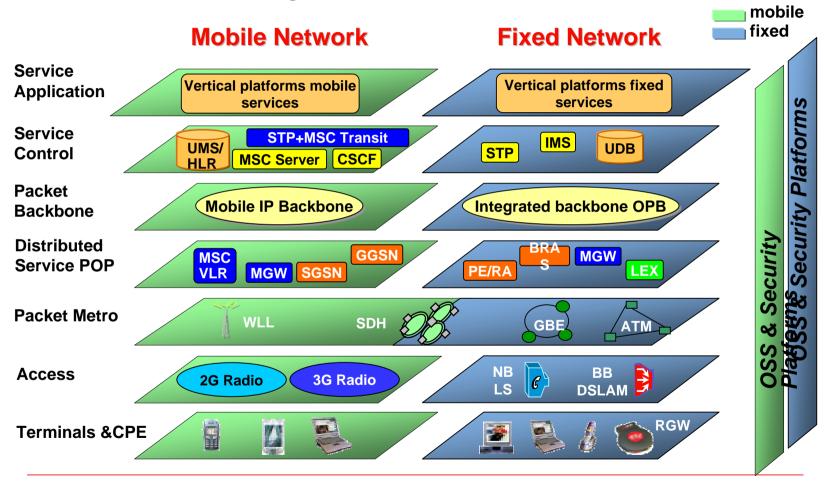








Fixed & Mobile convergent evolution: state of the art 2005





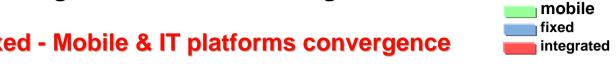


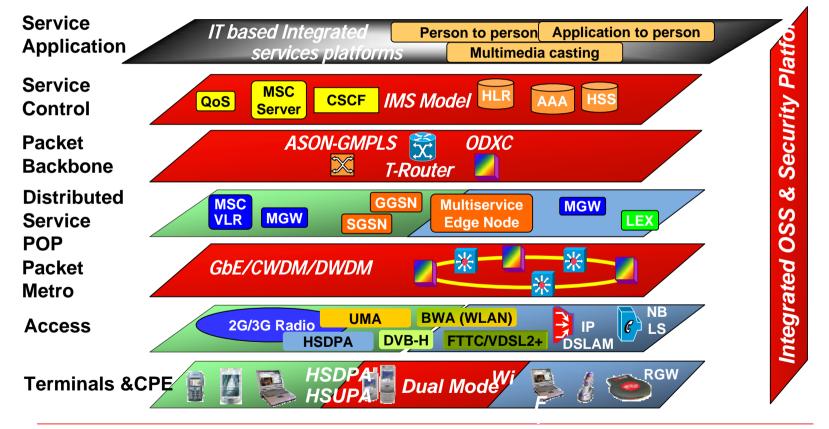




Fixed & Mobile convergent evolution: 2008 target

Fixed - Mobile & IT platforms convergence









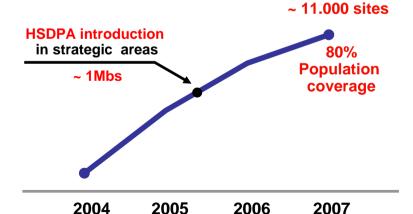




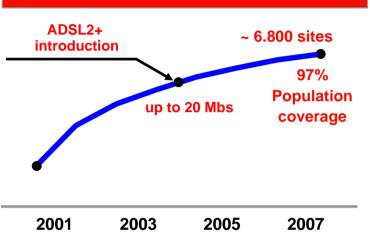
Broadband access coverage evolution

2005 The right time for IPTV introduction!

...stronger push on UMTS coverage



.....xDSL coverage extension



2005

The right time for 3G acceleration!

Broadband evolution is a requirement for the convergence

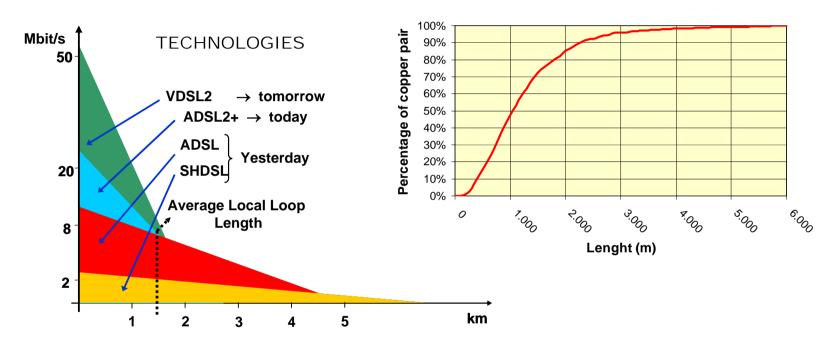








Broadband fixed access evolution



- ▶ ADSL profile "4096/640" kbit/s allows one TV quality video channel to more than 85% of the italian telephone customers
- ▶ ADSL2+ and VDSL2/FTTX solutions necessary for multiple TV channels and HDTV

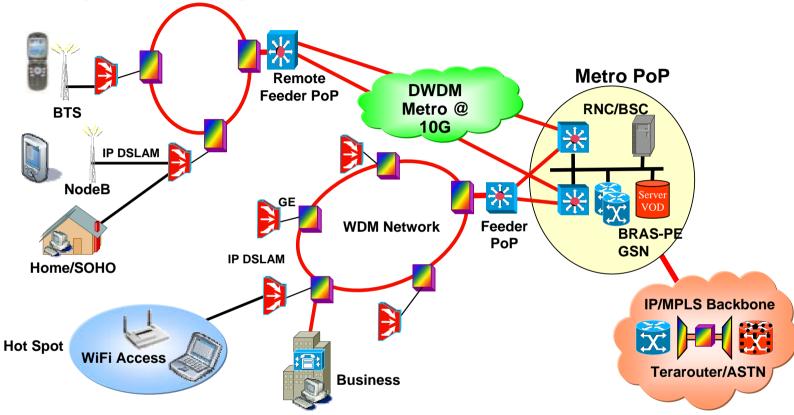








Metro/regional convergent network evolution



- Access networks evolving towards IP DSLAMs
 - Metro networks based on Metro Eth and xWDM rings
 - Backbone network based on IP/MPLS and ASTN paradigm

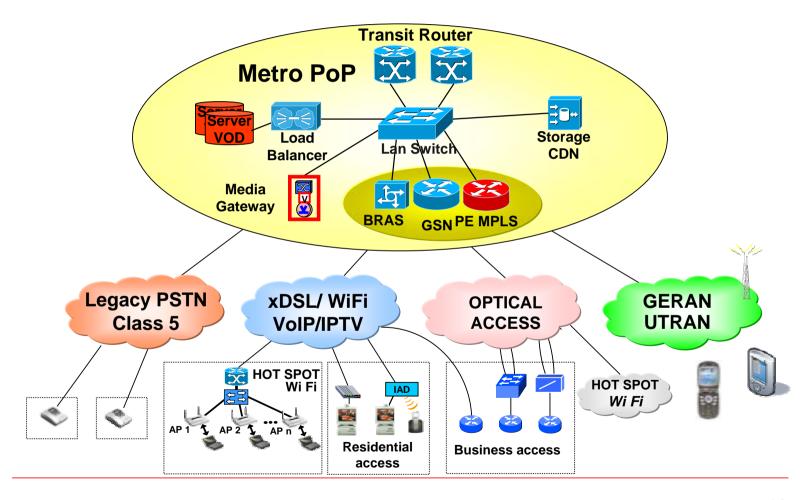








New NGN Multiservice convergent PoP



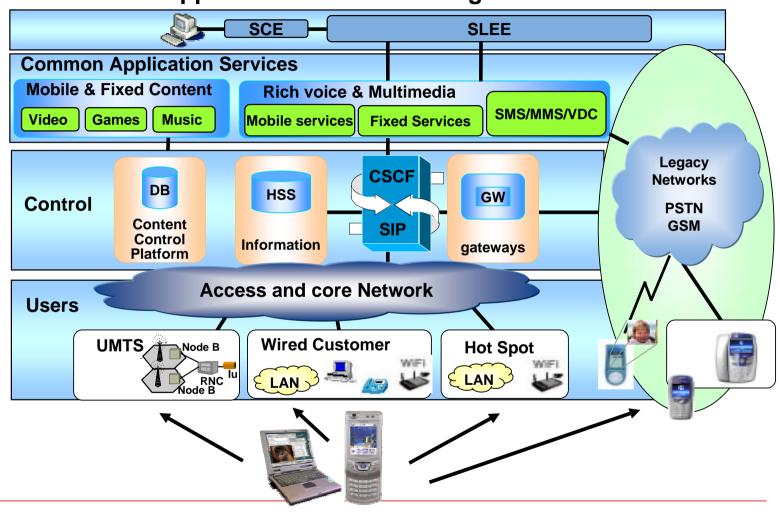








Fixed & Mobile application service convergence: IMS/NGN model



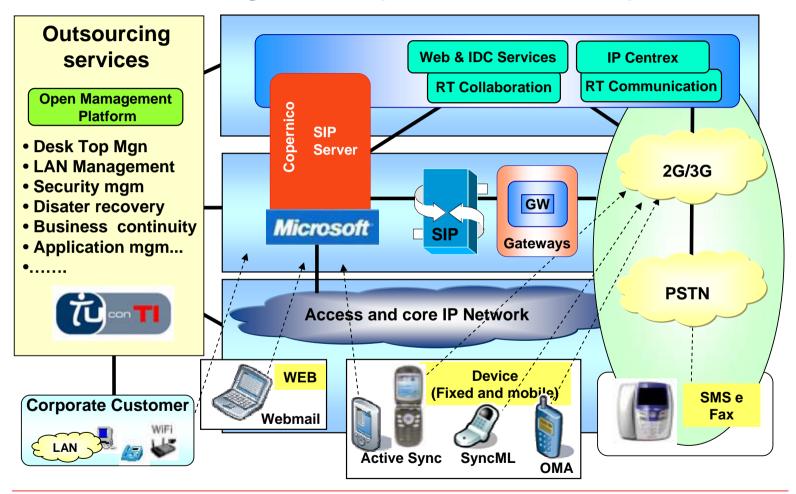








ICT services convergence: co-operation with vertical plaforms



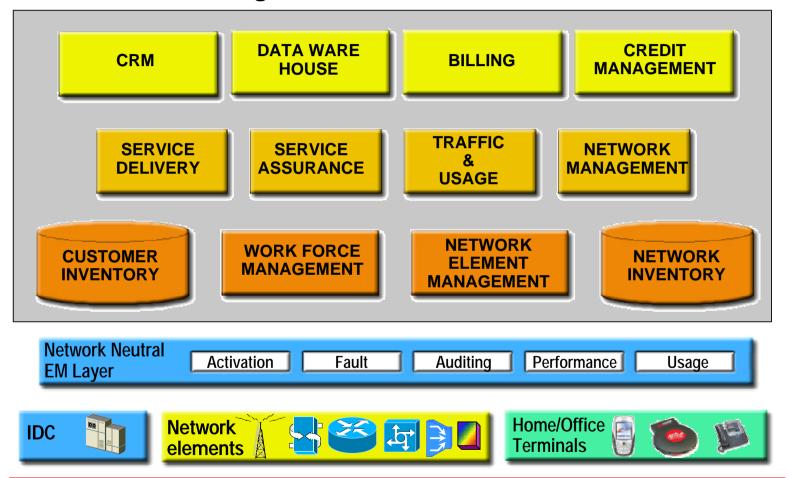








New IT-based convergent model for OSS & BSS











Conclusions

- Broadband continue to have a booming growth:
 - xDSL is going to become the new personal fixed phone line for each member of future households
 - UMTS/HSDPA and WiFi will enable broadband services in mobile and nomadic environments
- The rush to the fixed mobile convergence is started and the Service Providers will try to gain competitive advantages from the new service opportunities offered by the BB and ICT technologies
- Value Added Services are ready for the market: Rich Voice, Entertainment, IPTV, Real time collaboration and cooperation on both fixed and mobile accesses
- Intelligent Devices: terminals, PDAs, appliances, home servers are key components for a fixed mobile convergent architecture enabling a seamless customer experience
- progressive convergence of IT & TLC markets will combine the use of communication, networking and IT services/applications







