

End-user applications over 3G



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06/03/2009

Agenda

1. Market Dynamics
2. Market Trends & Opportunities
3. Seizing Opportunities with Alcatel-Lucent

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Market Dynamics Expectations & drivers

End-users demand and expectation

Convenient, personalized and blended services

End-Users want convenient & easy to use services

End-Users expect services suited to their personal needs

- Not limited to the capability of their device or their network

“One service fits all” doesn’t work

- Operators need to support plenty of services for plenty of different user groups with continual renewal

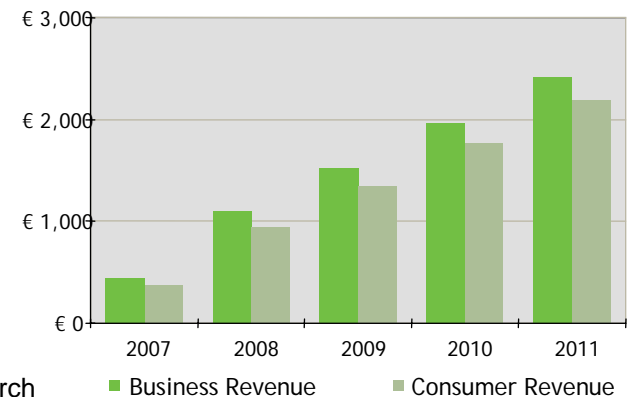
End-users expect to pay only if there’s a true added value

- Compared with the introduction of IT competitors (Google, Skype, etc)

Percentage of Western Europeans Expressing Willingness to Pay for Feature

Packages Features	
SMS	82%
MMS	67%
Interactive Internet TV	64%
Instant Messaging	63%
Mobile Video	53%
Video Mail	48%
Push-To-Talk	35%
Dual Mode Phone Service	32%

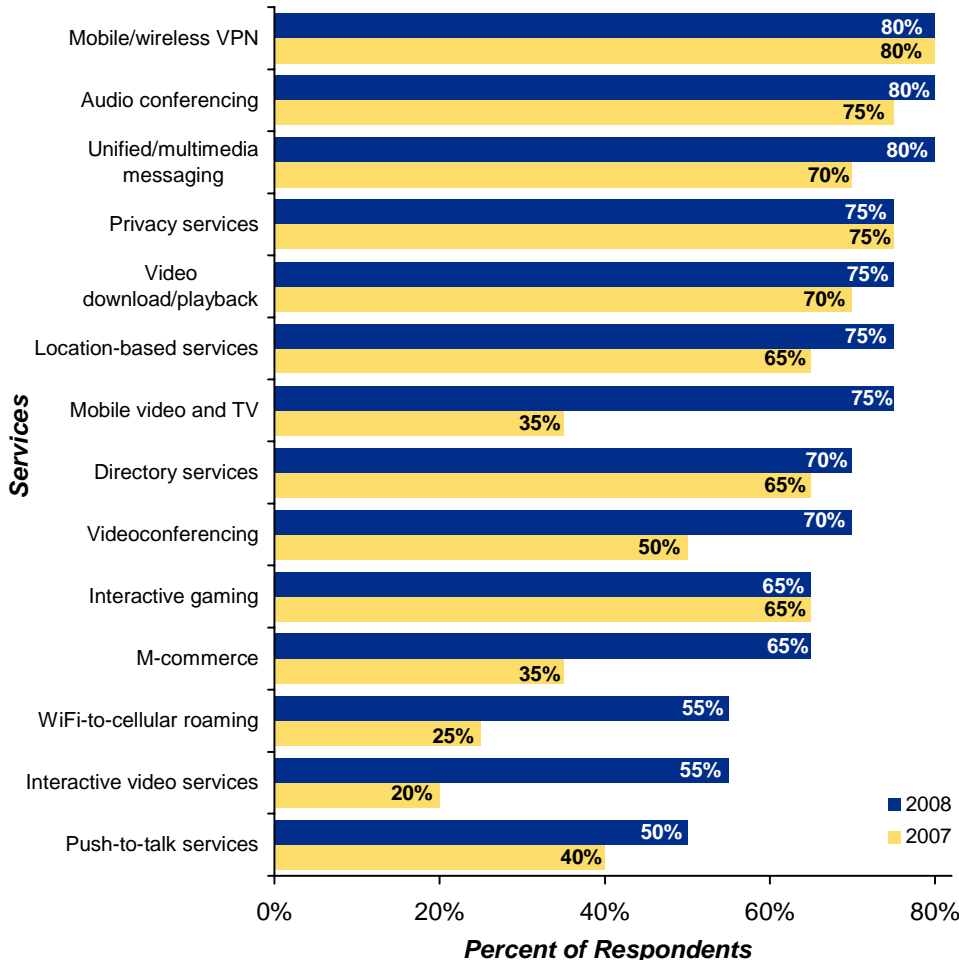
Personalized and Blended Service Revenue Forecast – Western Europe (Thousands of Euros)



Source: Bell Labs Market Research

Service Providers going for Next Gen Mobile/Wireless Broadband

Service portfolio and short-term evolution



- Several service providers offer all or nearly all of the services listed
- Growth is especially strong for interactive video services
- Mobile video and TV services more than double
- WiFi to cellular roaming doubles--
UMA and IMS grow

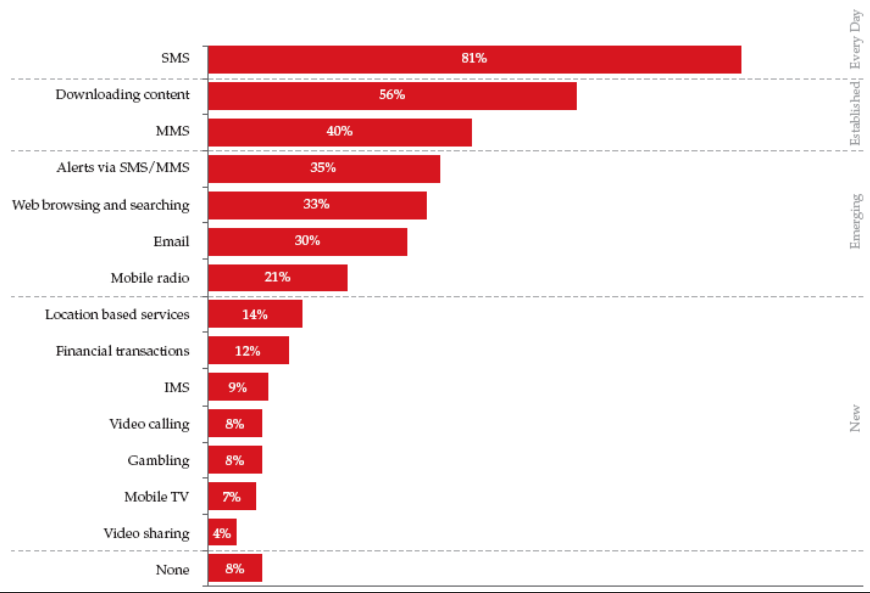
Source: Infonetics Research, Inc., 2008.

Based on a survey of 50 service providers in North America, Europe and Asia that offer next gen mobile (2.5/3G / 3G+) or wireless broadband services (WiMAX / WiFi).

Mobile Services Dynamic

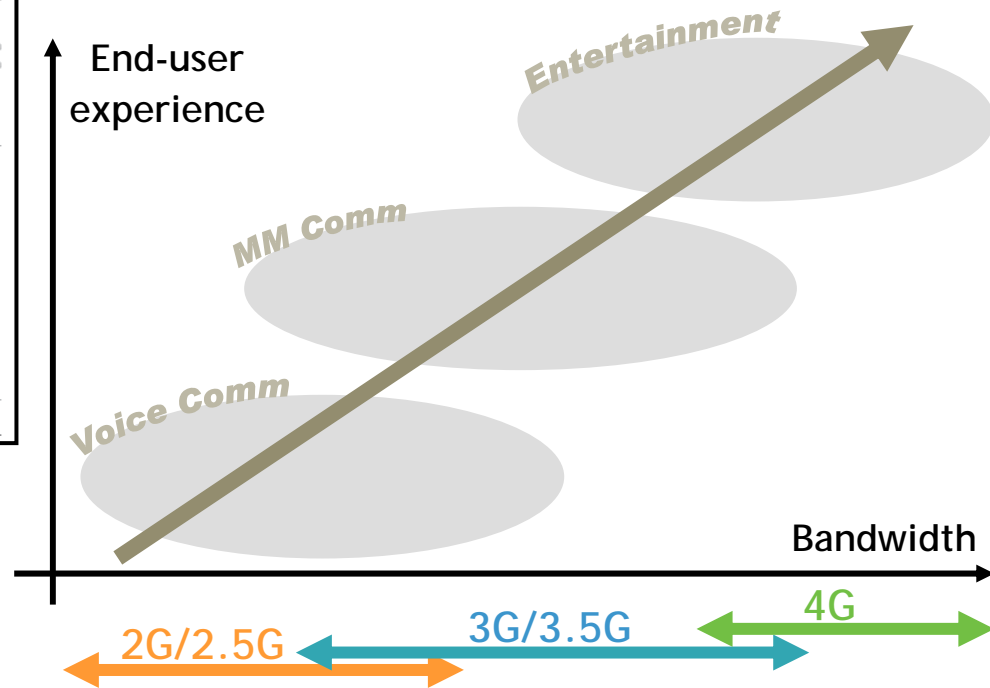
The More Bandwidth, the Better the End-User Experience, the more fragmented Offering

Figure 13 – Usage of Mobile Services (Total)



Source: GSMA, Dec 2006.

Increasing fragmentation of user base makes the “killer application” much less likely.



3G, an opportunity to improve End-user experience & introduce new multimedia services

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Market Trends & Opportunities

Around key service domains

3G Technology - Today



- 400 commercial networks in 135 countries
- 686 million of subscribers
- 1095 devices
- 632 highlighted data services worldwide

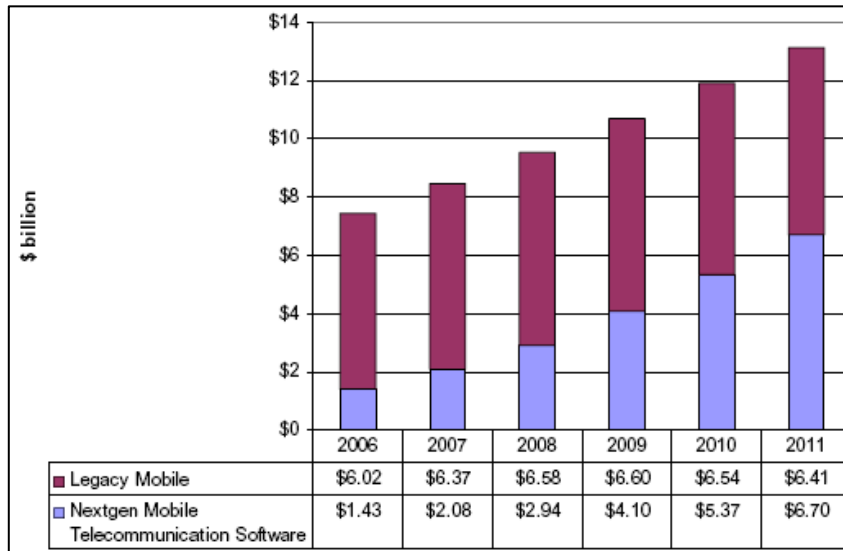


Source: www.3gtoday.com



Global Trends in 3G Technologies

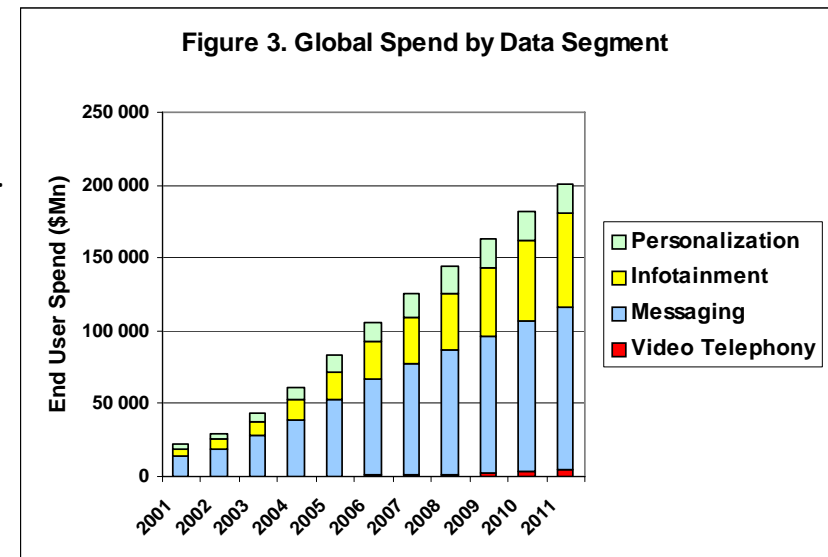
Key Figures



Source: OSS Observer, 2007.

- Messaging remains the dominant data revenue stream.
- P2P SMS growth slowing in mature markets in favor of new messaging tools, particularly email and IM.
- Infotainment revenues will double by 2011.
- Growing functionality/usability of handsets/networks drives growth of Web browsing with positive outlook for Web 2.0 services.

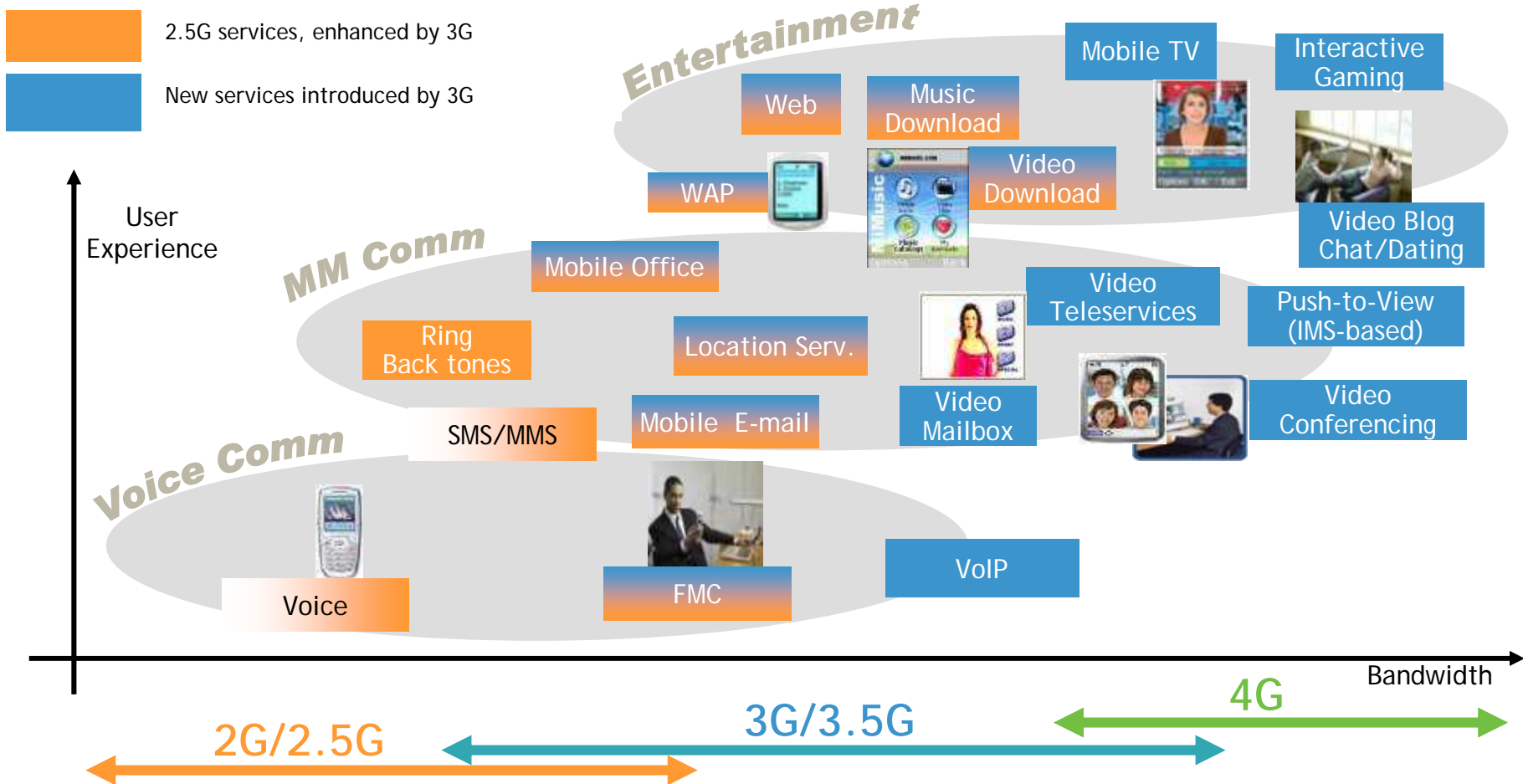
- Growth in 3G technologies, mainly in WCDMA with upgrade to HSPA, to support higher bandwidth in anticipation of strong demand for multi-media services.
- 3G Femto cell gaining industry attention with the rapid uptake of the residential broadband service market.



Source: Strategy Analytics, 2007.

From mass market to community and personalization leveraging innovation

Strong synergies between Capacity & Terminals

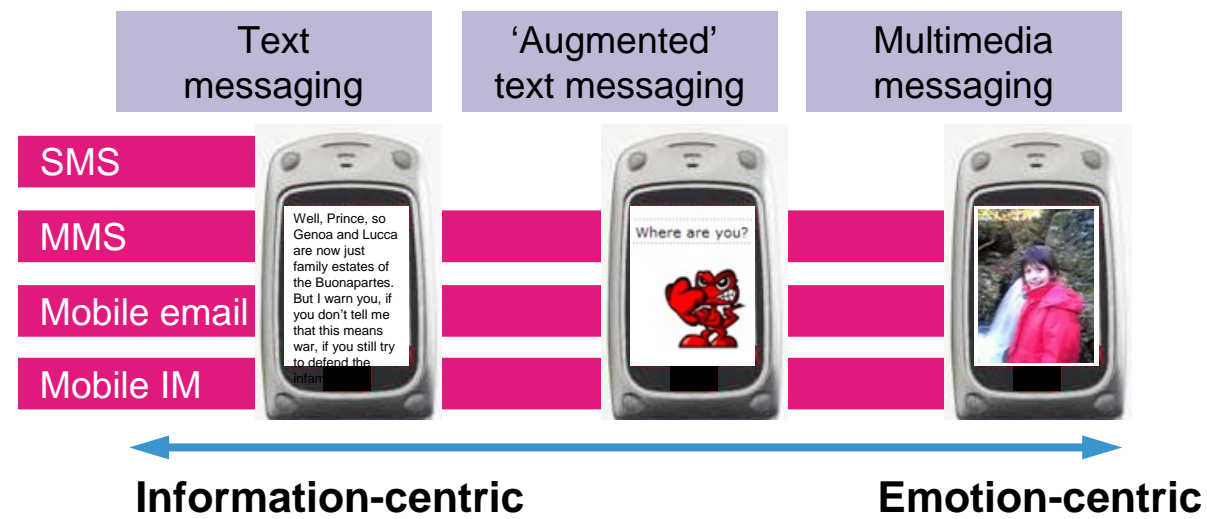


3G helps SP engage into an innovative services roadmap to create and maintain differentiation

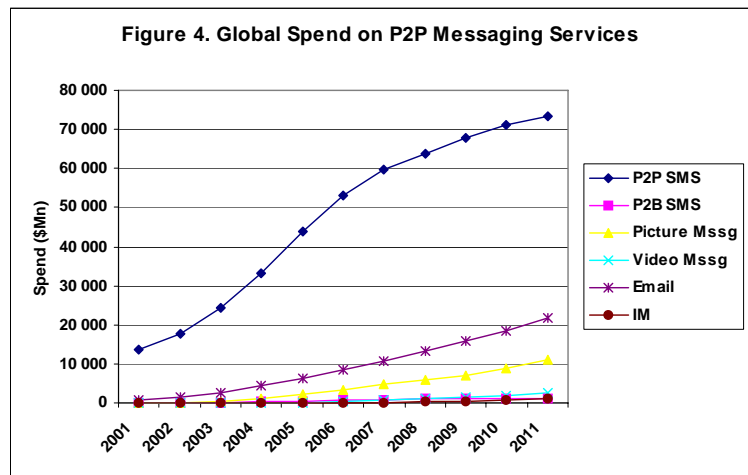


Mobile Messaging

Market figures



Messaging accounts for 11% of Mobile Carrier revenue



Source: Strategy Analytics, Inc., 2007.

- Towards unified Messaging with (web, wireline, IPTV)
- Next-Gen Messaging growing with double-digit CAGR:
 - Mobile IM
 - Mobile Email
 - Video Mail

Mobile IM: Launched April 04
 61Msubs VZ IMs to 240 Msubs MSN, 75m subs Yahoo and 60Msubs on AOM



Key trends in entertainment / content delivery market

Unicast + Multicast
+ Broadcast
Personal & Interactive TV



Interactive services over TV
VOD
Unlimited TV



Content proliferation
User-generated Content



Search Tools
Network(ed) storage
Virtual Storefront



Any Access, Any location,
Any device



Multi Screen



New business models



Interactive & targeted ad
Sponsored content



Wide adoption of digital multimedia devices & broadband driving entertainment & content proliferation

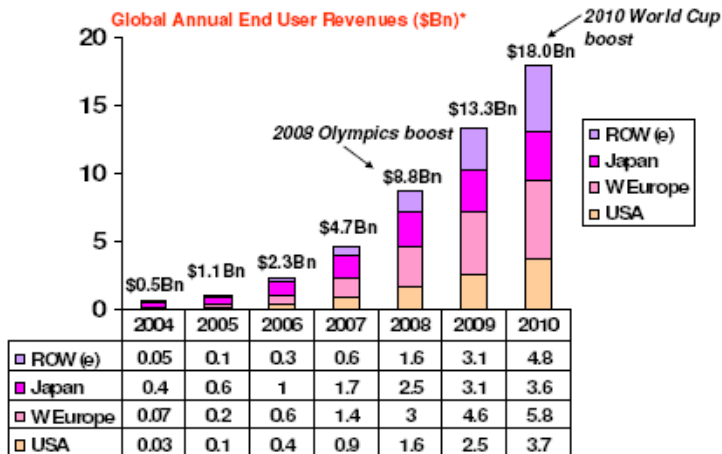


Mobile TV and Music

Market figures

- Over 220 operators have already launched mobile video services
- Among them, around 120 operators have launched Live TV
- Consumers showing willingness to pay incrementally for quality 'TV on mobile' services

Total Mobile Video* Global Revenue Development (Cellular and Broadcast)

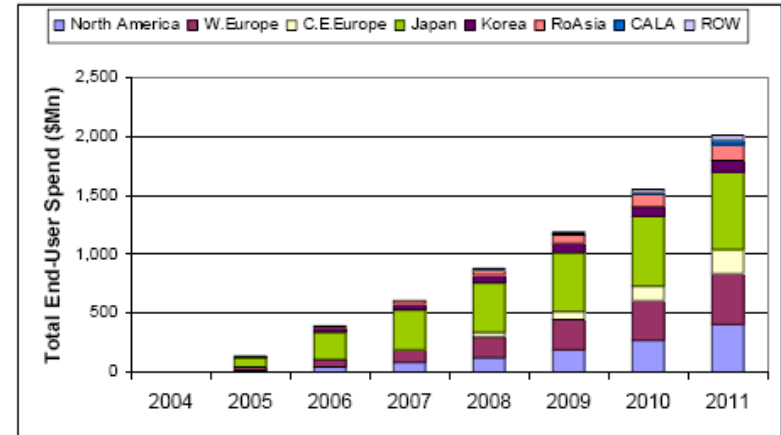


*Advertising, Sponsorship and Interactive (comps, voting etc) additional, includes Mobile TV and Mobile VoD

Chart 14

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Figure 15 Global Spend On Mobile Music 2004 - 2011



Source: Strategy Analytics, Feb 2007.

- Strong momentum in APAC
- Initially driven by personalization (Ringtones, Ringback tones)
- Evolving towards full track music OTA download but trends for:
 - Convergent / multi-platform
 - Off-portal access to catalogs
 - Attractive pricing / bundling

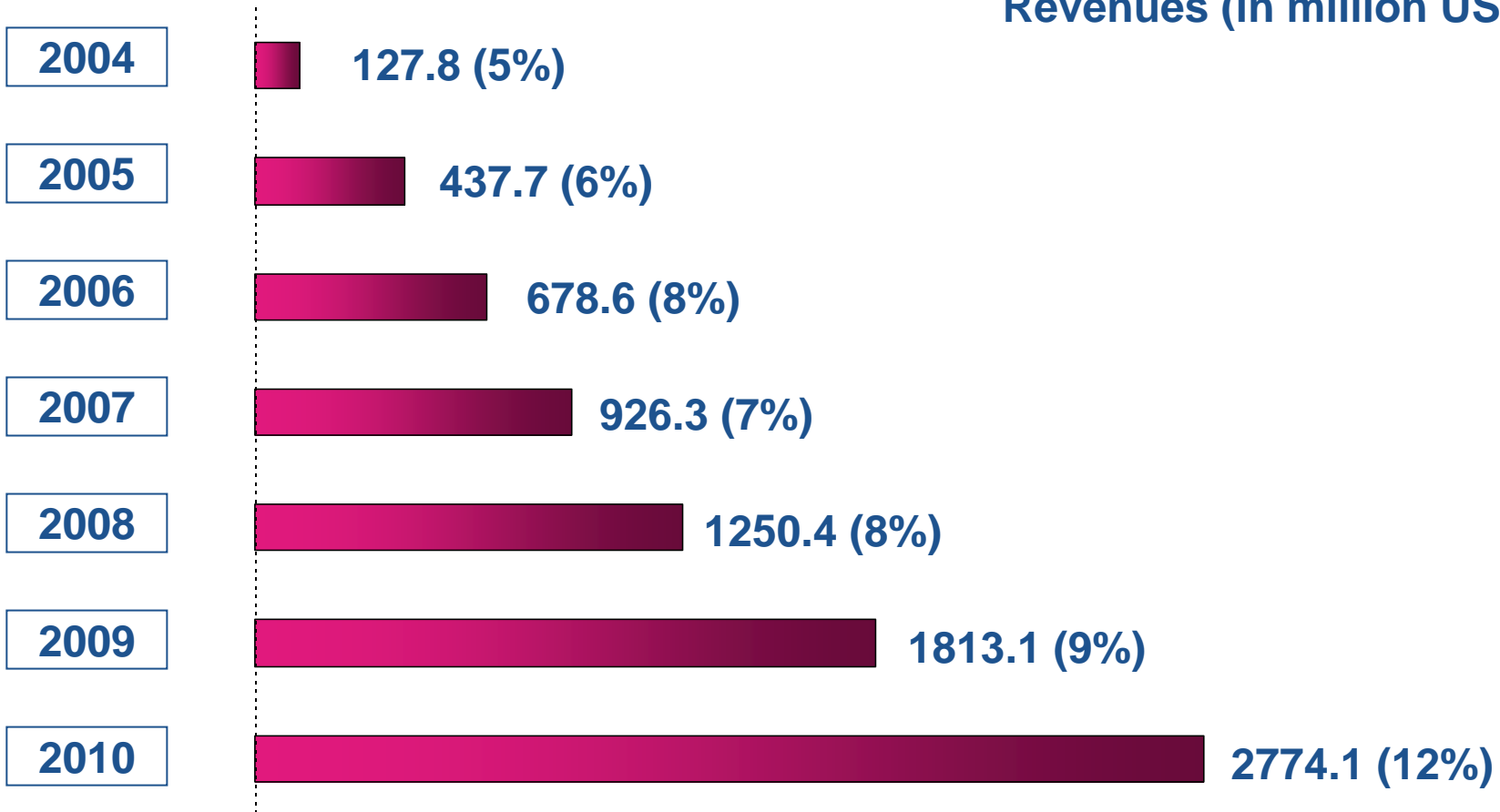
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Seizing 3G Opportunities with Alcatel-Lucent

Applications Market in India

VAS Business Overview

Revenues (in million USD)



Source: TOI

Major areas of investment in Alcatel-Lucent...

...supported by major customer references

IMS

20+ full deployments
50+ IMS services deployments

Communication

IPTV & MultiPlay

#1 Triple Play
120+ F&M customers

Entertainment

Payment

#1 Real Time Payment
220+ fixed and mobile customers
40+ convergent projects

Charging

IP/NGN

Unmatched Field Experience
250+ fixed & mobile customers
Leverage #1 in Classic switching

Network Evolution

Subs Data Management

1/5 of the world mobile subscribers
170+ Customers
70+ next gen. deployments

Users Management

Enabling competitive transformation

www.alcatel-lucent.com