Sustaining profitable growth in Mobile

Mario Rivas

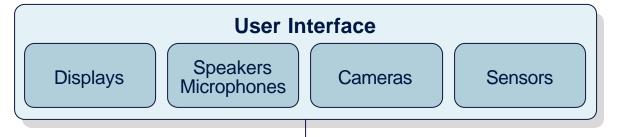
Executive Vice President Communications Businesses

Philips Semiconductors Financial Analysts Day 2004

- Update Communications businesses
- Nexperia Mobile
 - System solutions
 - Mobile multimedia
 - Broadcast
 - Connectivity & Security
 - Personal media player
 - User interface

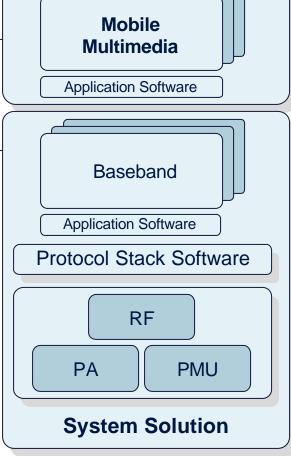
Summary



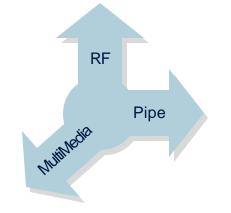












Sustaining market position in the mobile Connected Consumer markets

GSM System
Solutions
top tier

Digital Cordless #1

Speaker systems #1

RF identification #1

FM Radio #1

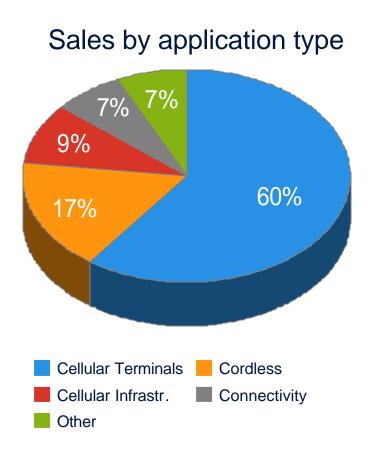
Display Modules #2

Bluetooth #3 Wireless
Connectivity
#3

Source: Gartner, Display Search, IDC, Philips Market Intelligence - 2003/2004



Balanced segment communication sales By application & region (excl. MDS)





Highlights of the past year

- Traction of Nexperia Mobile with leading handset manufacturers
- Nexperia Mobile for EDGE being deployed in leading handset manufacturers, like TCL & Alcatel Mobile Phones
- Demonstrated industry's best performing Bluetooth / WLAN co-existence solution



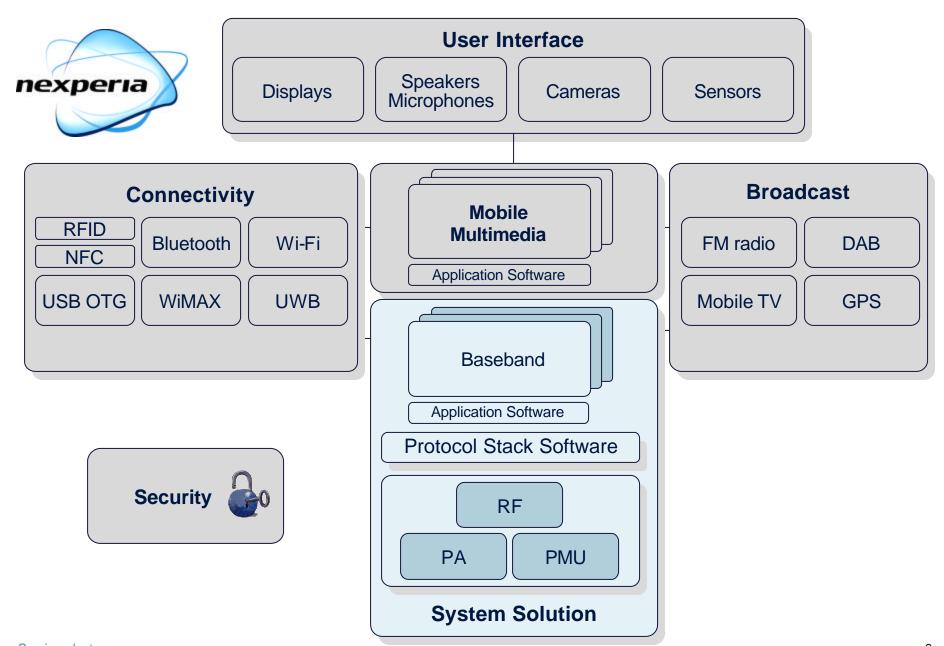
Highlights of the past year

- Cooperation on NFC with our key customers – Nokia, Samsung
- Joint cooperation on RFID solutions together with IBM and Checkpoint
- Great Wall of China adopts
 Philips' MIFARE technology for contactless ticketing
- Gemplus: high-end SIM cards for telecom operators



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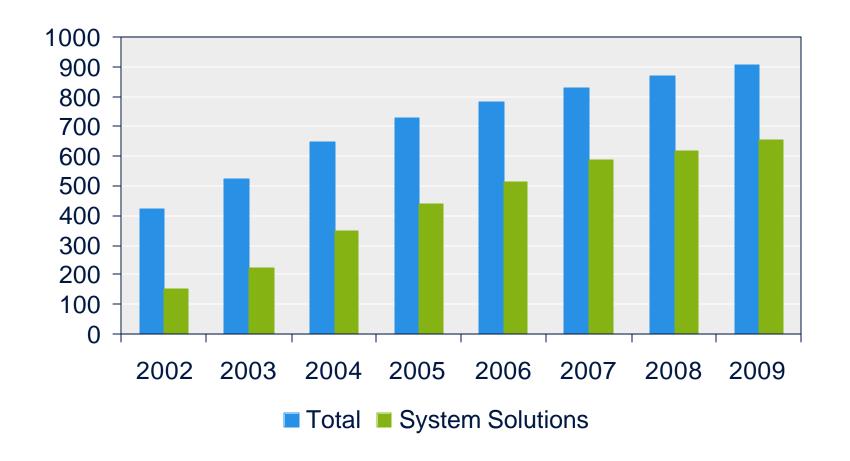
Summary



Traction of our Nexperia Mobile system solutions



System solutions grow faster than total market



A Nexperia solution for every mobile phone

Smartphone

Nexperia Sy.Sol 9000

Master Application Engine running Open OS + Slave Modems (Cellular, Bluetooth, WLAN)

High-end Feature Phone

Mid-range Feature Phone

Nexperia Sy.Sol 7000 (UMTS)

Nexperia Sy.Sol 6000 (GPRS/EDGE)

Feature centric - TTM driven

Basic Entry Phone

Nexperia Sy.Sol 5000

Voice centric - Cost driven

GSM → GPRS

Ultra Low-end Phone

Nexperia Mobile (system solutions) Innovation & Integration



2002



1.5 year

2003/4



1.5 years

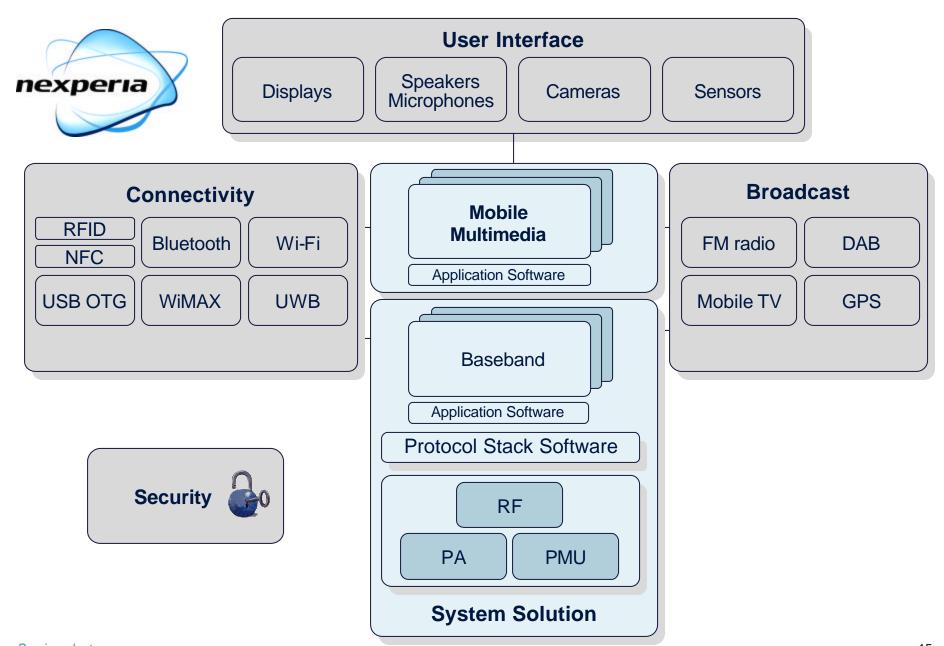
2005



Nexperia Sy.Sol 3000 200 components baseband: 6 MIPS Nexperia Sy.Sol 5100/6100 150 components baseband: 60 MIPS Nexperia Sy.Sol 6200 100 components baseband: 200 MIPS

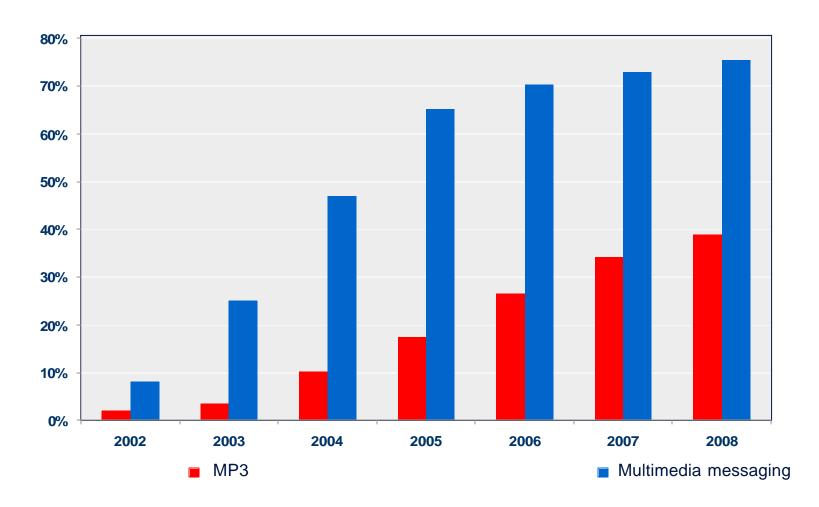
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Multimedia

Penetration of multimedia features in handsets



Nexperia Mobile Innovation and integration



Sony Ericsson P900

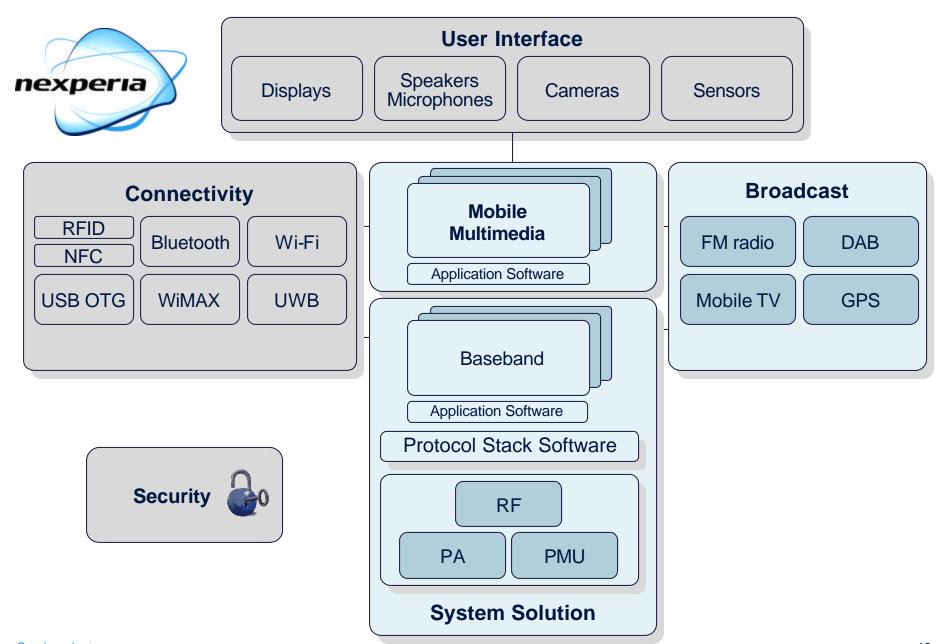


 To further grow we had to innovate the market...

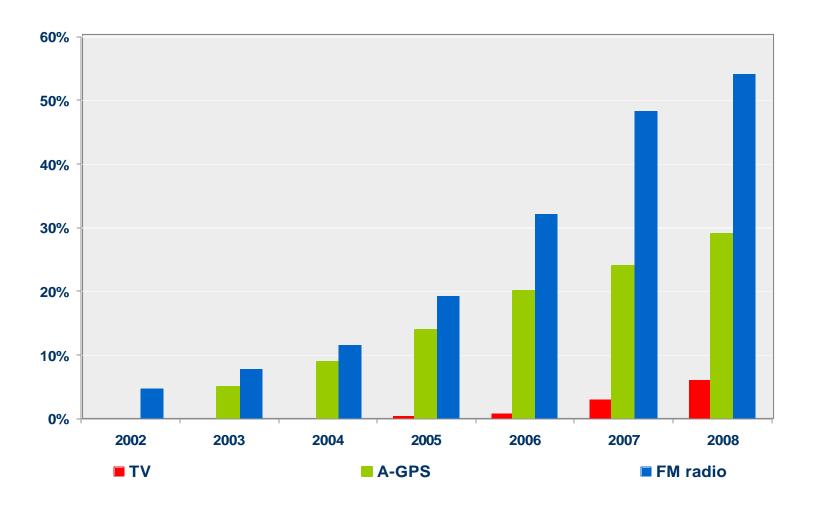
 ...and integrate multimedia and display capability into Nexperia Mobile

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Broadcast Penetration of broadcast features in handsets



Broadcast

FM radio

- World's smallest FM radio & complete family range of IC's: FM only, AM/FM and FM+RDS
- New growth trend: interactive radio

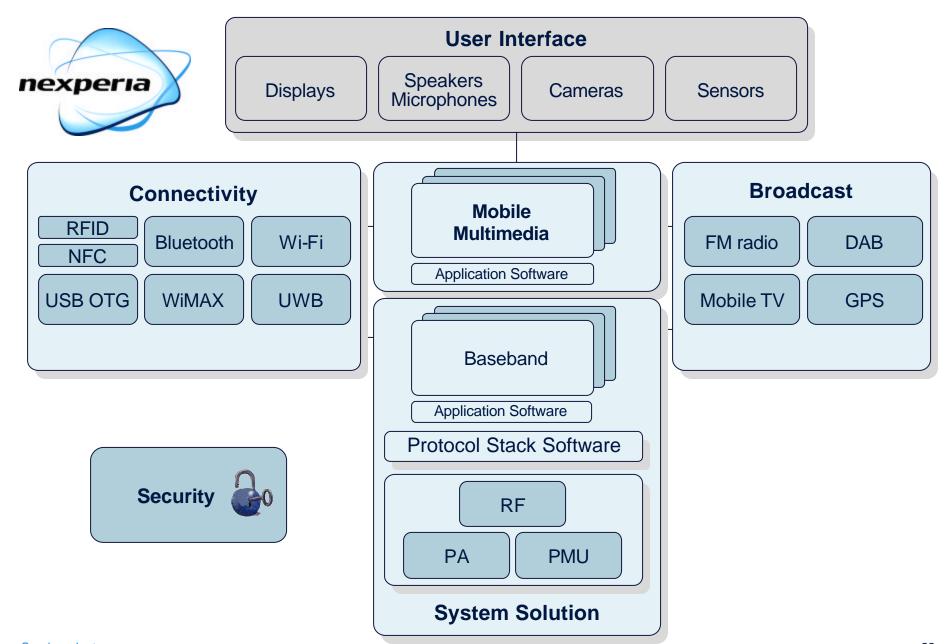
Mobile TV

- Broadcast and Mobile Convergence project, co-operation in Berlin between Nokia, Philips, Universal Studio's and Vodafone
- Driving a new standard for Digital TV on mobile phone
- Philips is developing a thumbnail size
 TV receiver chip-set

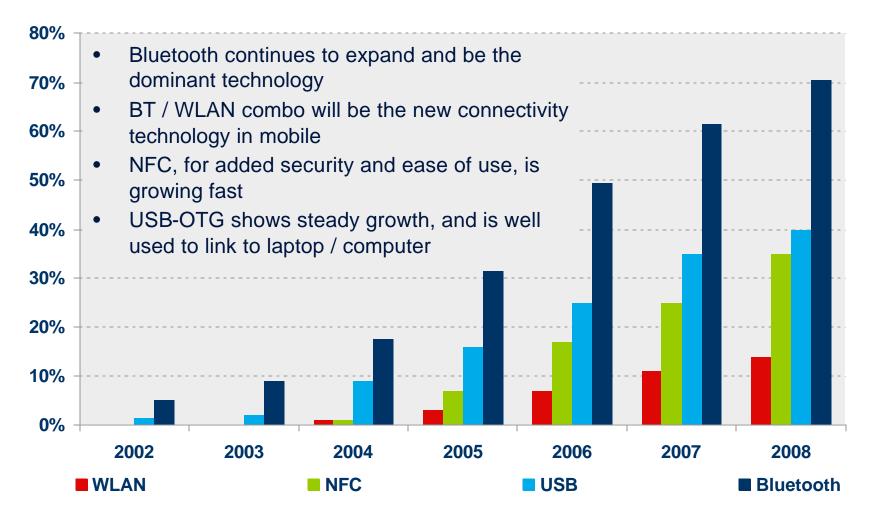


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Connectivity Penetration of connectivity features in handsets



Wireless evolution
Industry smallest & lowest power coexistence solution

- Shrink silicon
 - CMOS 90
 - Physical I/O limitation
- System in a Package (SiP)
 - Integrates RF and baseband in single package
 - Eliminates RF engineering
 - Breakthrough size; footprint of standard HVQFN IC package
 - Eliminates up to 30 components

NFC-enabled mobile phone applications

Payment everywhere: Mobile phone = POS



Take info from poster: Mobile phone = information vehicle

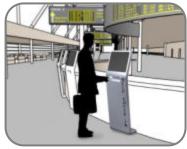








Access to public transport: Mobile phone = transport card



Micro-payments: Mobile phone = debit card



Exchange business cards Mobile phone = electronic business card

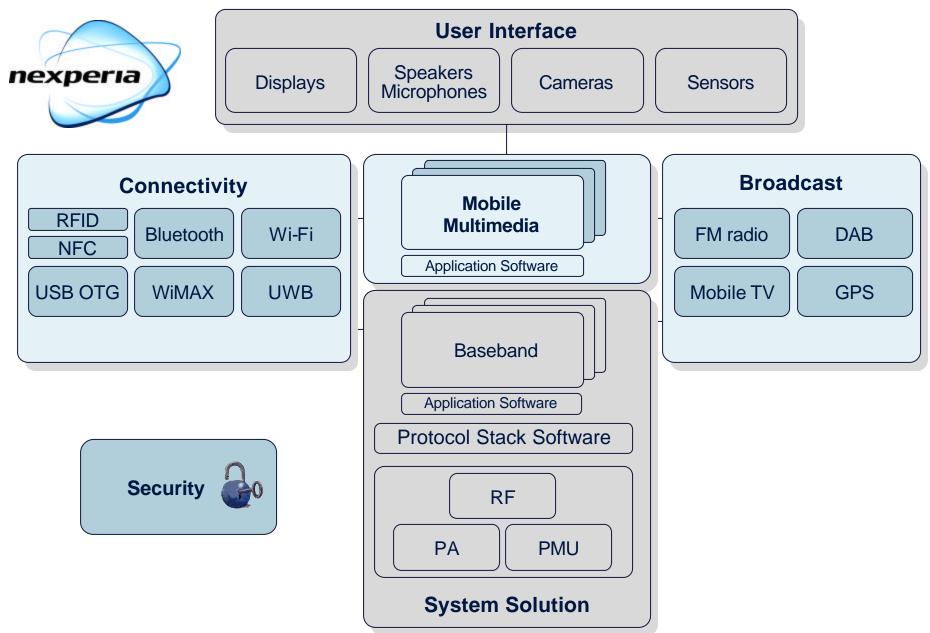
NFC is here today

- Being deployed in the handsets of all major manufacturers
- ISO standard available
- NFC chips available
- NFC-enabled devices later in 2004
- NFC Forum moving forward Philips, Sony and Nokia
- Backwards compatible to contactless chip technology as used in smart cards
- Applications ... the sky is the limit



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Personal media player



Portable Audio players

Nexperia Personal family of audio player

ICs - single chip solution for portable flash
memory and hard disk MP3 players

Nexperia Personal Multimedia players Nexperia Personal family of audio and multimedia player ICs - a natural fit for audio / image storage applications

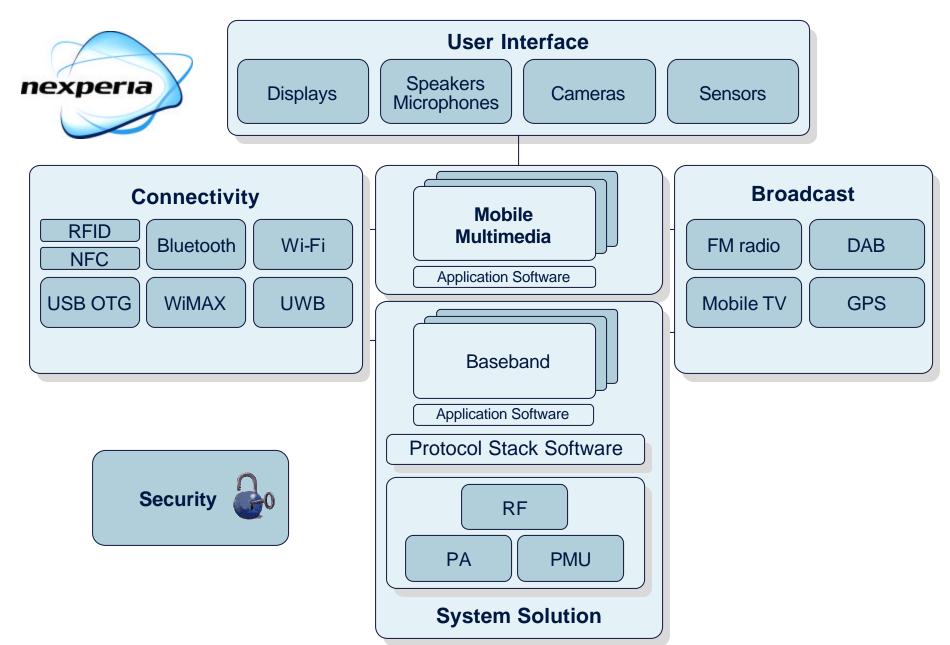
Nexperia Personal Media player reference design

Addressing the growing market opportunity for portable media players recorders for the high end market, includes audio / imaging / video player

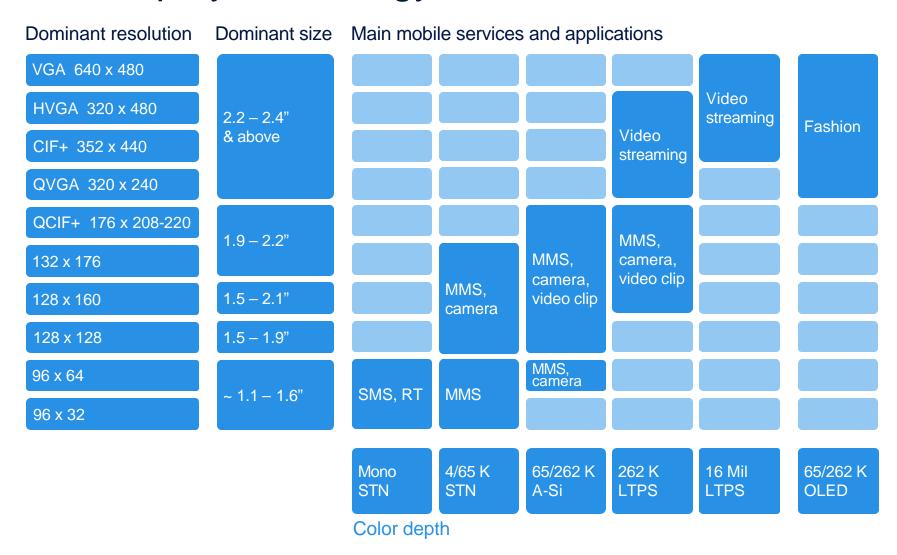




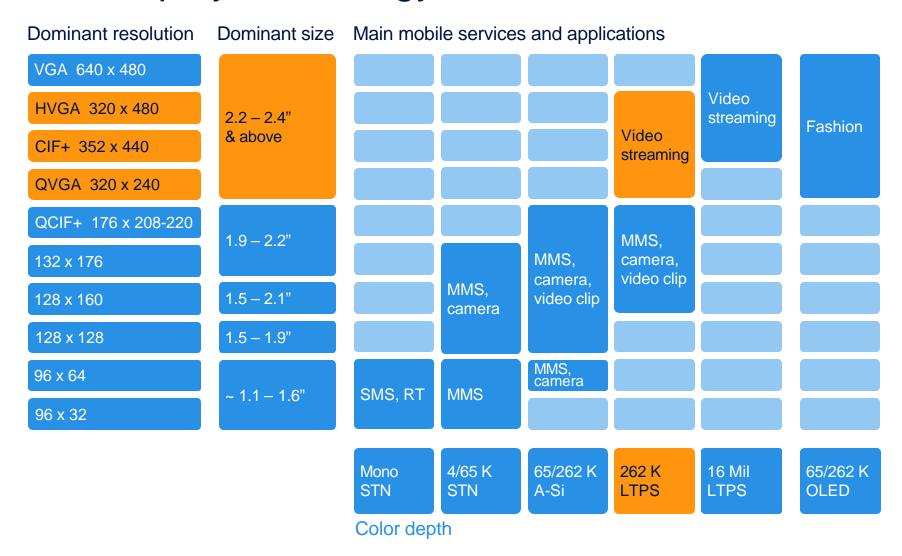
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The display technology evolution

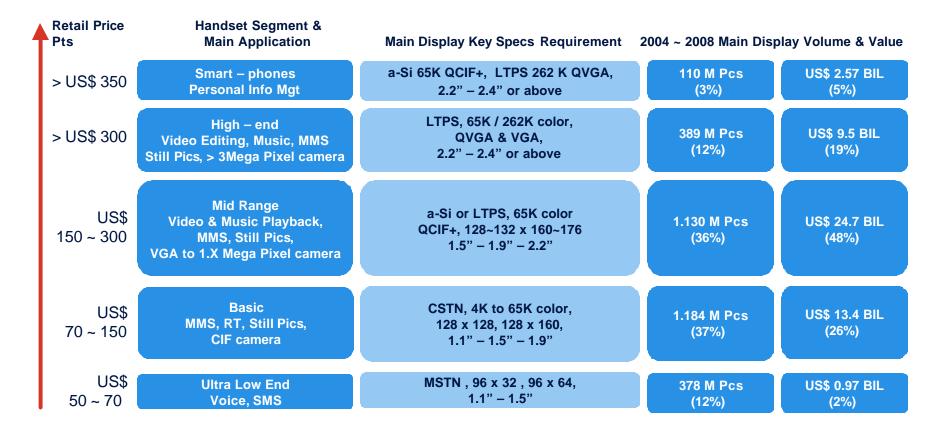


The display technology evolution



The future outlook of handset evolution and the value of mobile display

50% of mobile display value will come from Mid-range segment in Handset market



The future outlook of handset evolution and the value of mobile display

50% of mobile display value will come from Mid-range segment in Handset market

Retail Price Pts Handset Segment & Main Application

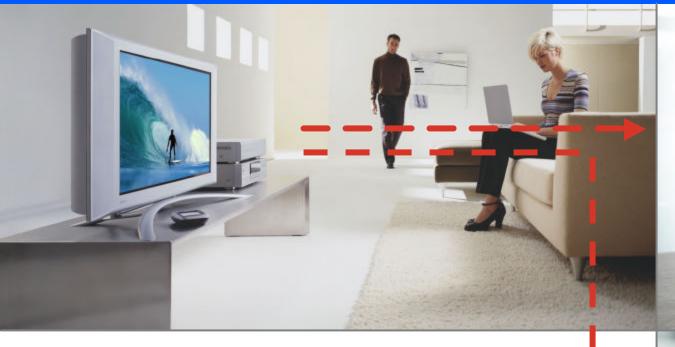
Main Display Key Specs Requirement 2004 ~ 2008 Main Display Volume & Value

US\$ 150 ~ 300

Mid Range
Video & Music Playback,
MMS, Still Pics,
VGA to 1.X Mega Pixel camera

a-Si or LTPS, 65K color QCIF+, 128~132 x 160~176 1.5" - 1.9" - 2.2"

1.130 M Pcs (36%) US\$ 24.7 BIL (48%)





Series of algorithms that improve picture quality of mobile displays

Most complete color enhancing solution on the market for optimal brightness and color



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Summary

Nexperia Mobile has gained market acceptance

- Enabling the right applications by offering the right features
- Evolving, innovating and integrating in the areas of broadcast, connectivity, display modules and other user interface solutions

Embedding the right software

- Choosing the right partners
- Gaining access to the right IP
- Embedding it in the system at the right time for the market

Convergence provides new opportunities...

- Mobile meets Home portable consumer merging with mobile applications
- Philips' unique positioned

