Nokia Capital Markets Day 2009

Olli-Pekka Kallasvuo CEO

Nokia Capital Markets Day 09

Nokia Connecting People
Espoo December 2nd







Nokia Siemens Networks





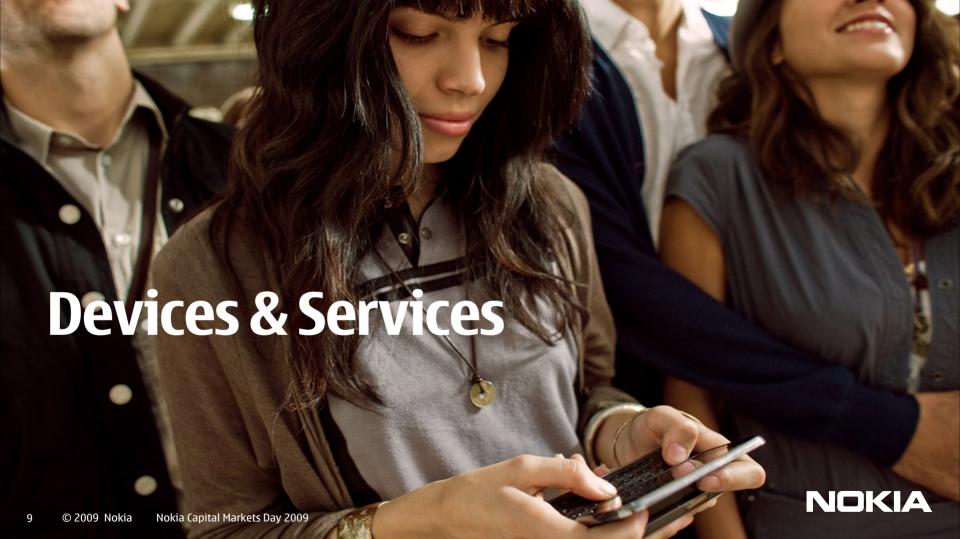
Devices & Services OPEX run-rate* reduced by ~1 billion euros in 2009

* Non-IFRS









Mobile Phones Smartphones Mobile Computers









Nokia X6



Nokia E72



Nokia 5230



Nokia N97 mini

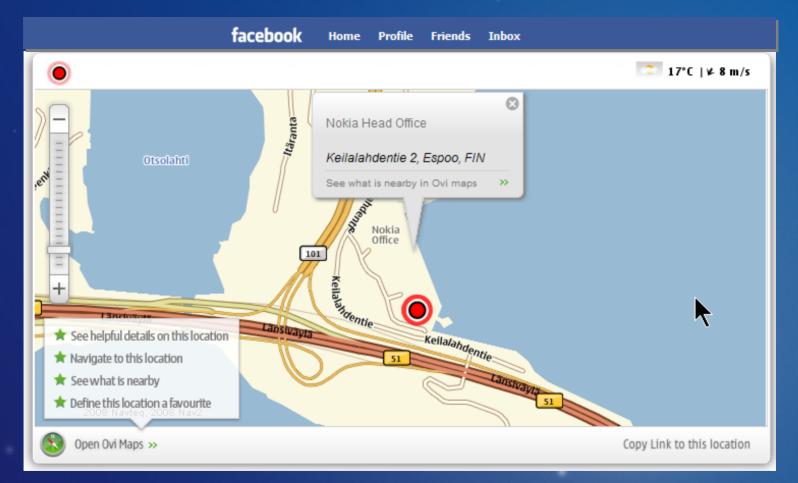
Nokia smartphone portfolio mix



Source: Nokia, number of devices

Lifecasting with Ovi







100 cities50 languages







~4 million customers

60 operators globally







16 million sold





Nokia Life Tools







20







"The N900 may very well offer the best browsing experience of any smartphone on the market today (yes, including the iPhone)"

- Engadget







Symbian: Reach and flexibility

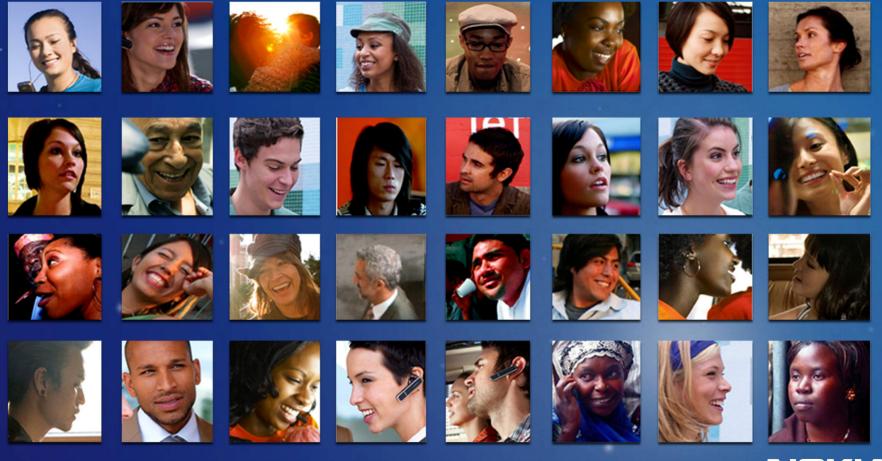




Microsoft*

NOKIA





Connecting People

Nokia's future growth potential

Mary McDowell EVP, Corporate Development

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Transforming from telecom to Internet model



The Web isn't just for people with deep pockets



It's not all in the cloud



One size doesn't fit all



Solutions for mobile-first markets

Making technology accessible to the next billion
Attractive, functional and affordable devices
Tailored with hyper-local services
Support for 80 languages







Nokia Money bridges the gap

Pay bills

Person-to-person money transfers

Pay merchants, physical and online

Top-up prepaid services

Send money



Making technology more intuitive, personal and relevant





Nokia Research Center







New User Interface

High Performance Mobile Platforms





Cognitive Radio







Turning strategy into execution



Building toward the new world

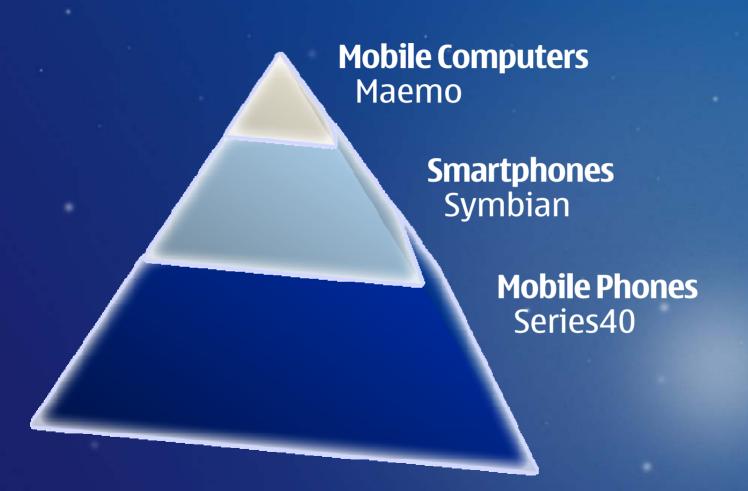


Driving our business

Kai Öistämö EVP, Devices

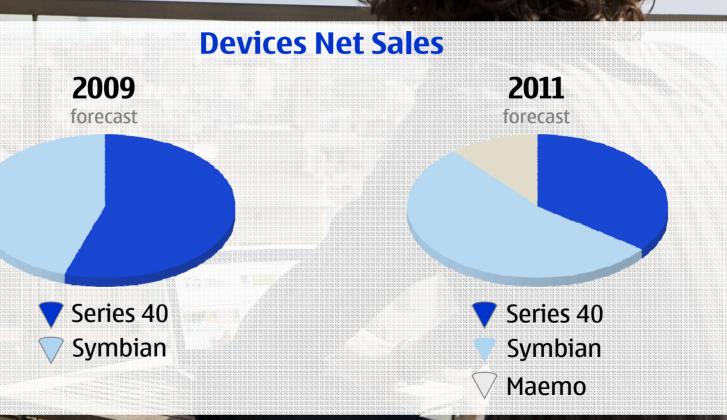
Nokia Capital Markets Day 09

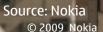
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Multiple platforms







Mobile Phones

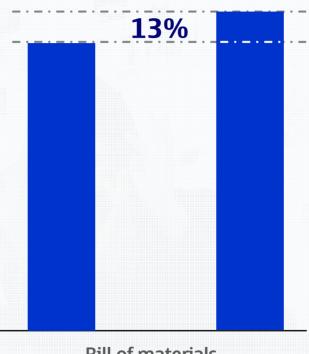




Efficiency

Nokia 1616





ZTE A211



Bill of materials





Nokia 2330 SE K330



Nokia 2680 Samsung J700



Nokia 5130 Samsung F250

Adding value

Brand, quality, reliability

300 Euro plus

High gross margin



Nokia 6700



Music

Nokia 5130 XpressMusic Leading volume seller

Nokia 5030 ExpressRadio Internal antenna

Nokia 1616 Radio at sub 25 Euro



NOKIA

Ovi Mail

Close to 4 million accounts

First year success greater than Hotmail, Yahoo and Gmail

More than 20 supported languages in less than a year



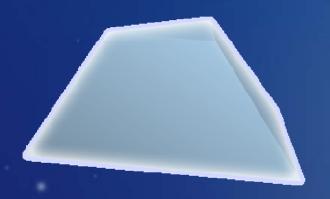
Nokia 2220 slide



Nokia 2690



Smartphones





Smartphones & Services

Niklas Savander EVP, Services

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Partnering





































Microsoft

facebook

Qt Ovi SDK Ovi API

























QWERTY market leader in Europe, MEA, APAC*
60 operator deals
Market penetration in 2010



Social Networking

IM

Email

Nokia volume market share estimate







- 16 local languages, operator billing in 13 countries
- Q1 2010 plan: local in 20+ countries including billing

Stable back-end operations







22 Music Stores, 15 Comes With Music markets

~ 9 million tracks, emphasis on local content

#1 music store in India

Ovi Music – DRM-free catalogue, common sign-on

Encouraging the growth of legal music downloads







Market leader in Mobile Navigation

- Maps coverage in 180+ countries
- Drive & Walk in 70+ countries, ~50 languages
- Increasing coverage for Traffic & Safety



Premium content lifetime bundle

Ecosystem and user growth in 2010









User Experience and Mobile Computers

Alberto Torres EVP, Solutions

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Global Portfolio breakdown

- Integrated roadmaps for devices and services
- Prioritizing features
- More relevant consumer metrics
- Consistency in each platform
- Cross-unit teams

User experience is everything













Symbian: variety and reach

E72

N97

5230







Mobile Computers

















Markets

Anssi Vanjoki EVP, Markets

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Markets 2009 and beyond



Markets overview

Nokia in 2009

- Top 5 global brand
- ~60 million smartphones sold to date
- Over 75 million active service users
- Over 4 million developers

2010 industry estimate

- Improving industry conditions
- Volume growth
- More normal seasonality



2.



3. Microsoft®

4.



5. NOKIA

7.



19.



20.



63.

*** BlackBerry.

Manufacturing

Finland Church Crookham, UK Masan, Beijing, Korea China Cluj, Komárom, Romania **Hungary** Dongguan, Reynosa, China Mexico Chennai, **India** Manaus, **VERTU** factory **Brazil** Value factory **Volume factory**

Salo,

Creating value through consumer relationships & partnerships



From insight to solutions...

Consumer Consumer perspective behaviors

Brand strategy

Solutions

CX/UX

Design

Solutions portfolio/
Unit portfolio

Market optimization

Proposition definition

Concepting

Launch

Ranges/ categories/ R&D

> Service lines

Campaign creation/ brand identity

oyalty & retention

NOKIA

Consumer Lifetime Value





Engage with consumers through our own media

1.1 billion consumers with Nokia devices

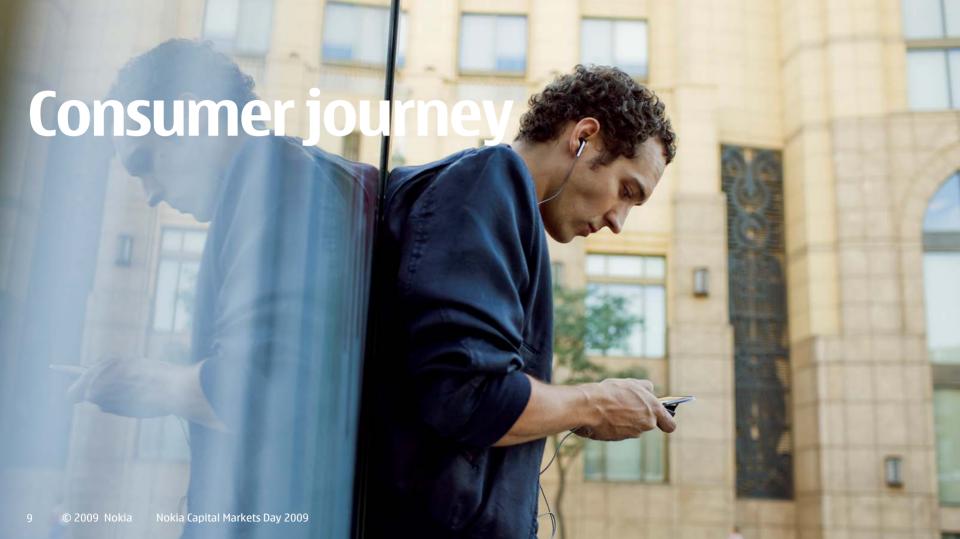
65 million visitors to nokia.com per month

230 million visitors to nokia.mobi per month

Sales boxes: 468 million in 2008

Retail: 650K outlets speak volumes

10 consumer interactions per second in Care





Nokia Messaging – Success in partnering

2009 **April** Mav Tul Sept 0ct Nov Tune Aug network norway* Telefonica mobilkom austria móvil SMART STC الاتصالات السعودية mı ·· T·· Mobile· **StarHub** orange elisa AIS SingTel **TELECOM Orange** With you, Always Global

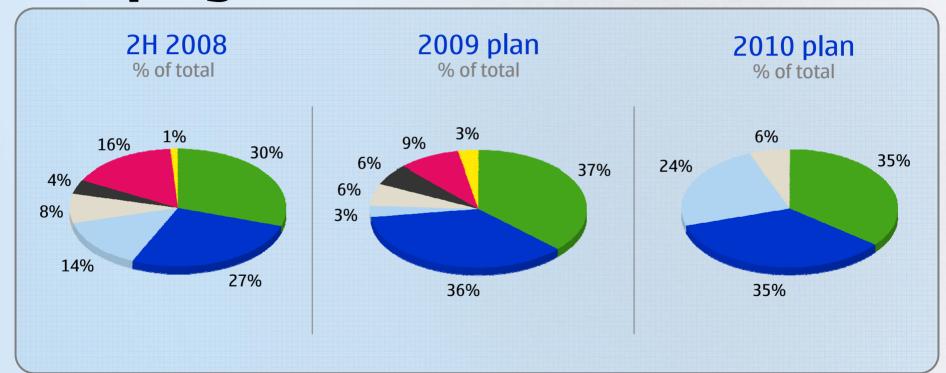


© 2009 Nokia

Marketing transition & Efficiency

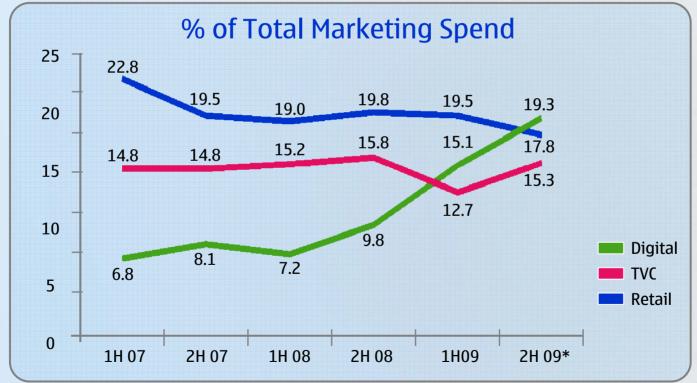


Focus on fewer, bigger marketing campaigns



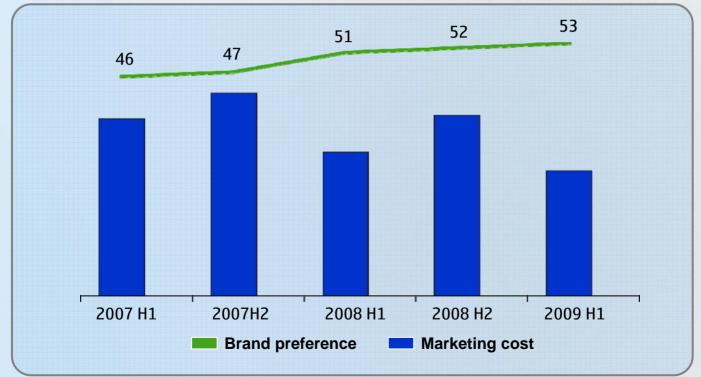


Nokia's digital marketing spend will surpass TVC spend in 2009





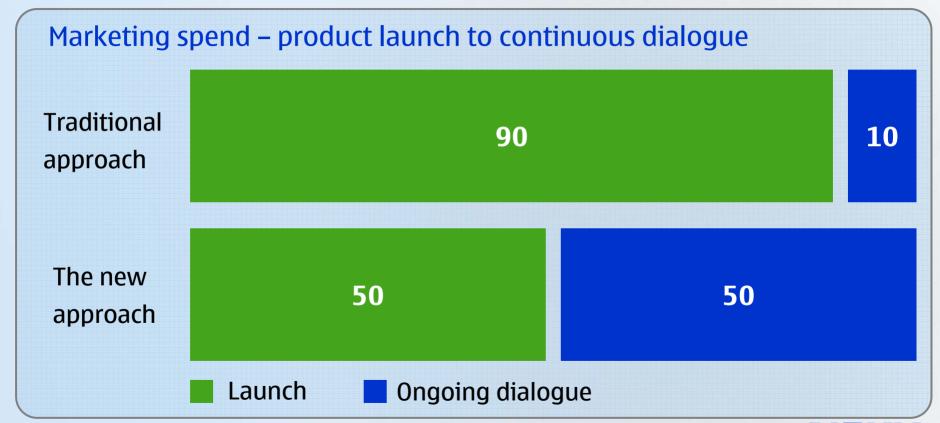
Positive brand preference trend despite decreased marketing spend





15

Changing the way we invest





Print



Digital



Retail



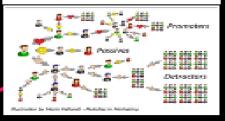
PR



Developer

Forum Nokia
Driving mobile innovation

Word of mouth





World's best infrastructure

Building blocks in place

Thriving ecosystem

Unparalleled reach





Nokia Siemens Networks

Rajeev Suri

Chief Executive Officer

Agenda

2009

The Opportunity

Delivering in 2010

Conclusion



2009 Summary

Overall



- Challenging economic and competitive environment
- Top-line decline also reflects effect of deal discipline
- Mature technologies in decline; momentum in focus areas

Financials



- 18% top line drop Q3 YTD, impacting profitability
- Plans in place to return to growth
- Cost discipline, continuing to lower the break even point
- Generating cash from operating activities

Strategy



- Driving efficiency and subscriber experience
- Focus on operator network and service layers



Challenging business environment in 2009

2009 has been a tough and disappointing year

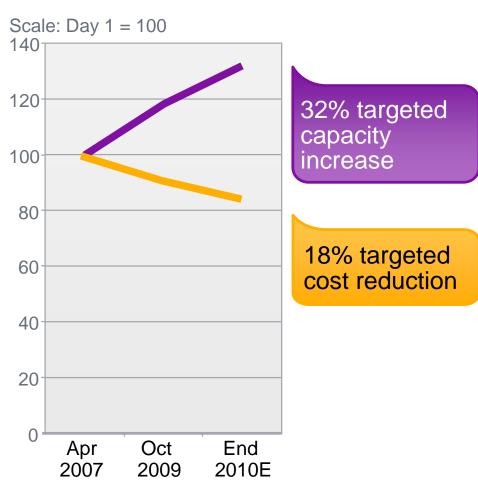
- Reviving top line Nokia Siemens Networks' major priority
- Gross margin stabilized
- Opex reductions moderated operating loss

EUR million	Q1/08	Q2/08	Q3/08	Q4/08	Q1/09	Q2/09	Q3/09
Net sales*	3404	4071	3504	4340	2990	3199	2760
Operating profit*	81	274	177	225	-122	2	-53
Operating margin*	2.4%	6.7%	5.1%	5.2%	-4.1%	0.1%	-1.9%



R&D transformation – roadmap and cost advantage

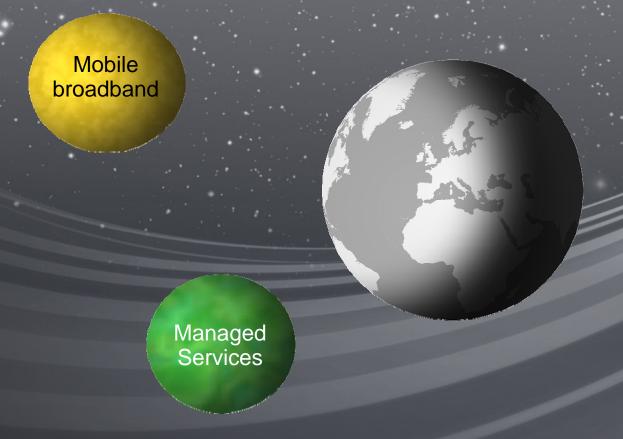
R&D hours and cost in NSN Radio Access



- Significant internal R&D ramp-up
- Focus on best skill / cost balance
- Reduction in collaborator input
- Resources shifted to focus products
- Proximity to key customers
- Highly competitive roadmap



2009 – Momentum where it matters



Subscribercentric solutions

Nokia Capital Markets Day 2009

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2009

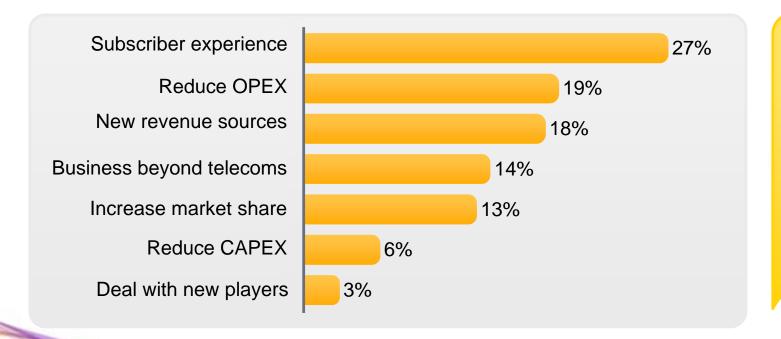
The Opportunity

Delivering in 2010

Conclusion



Our customers' top business goals in 2012



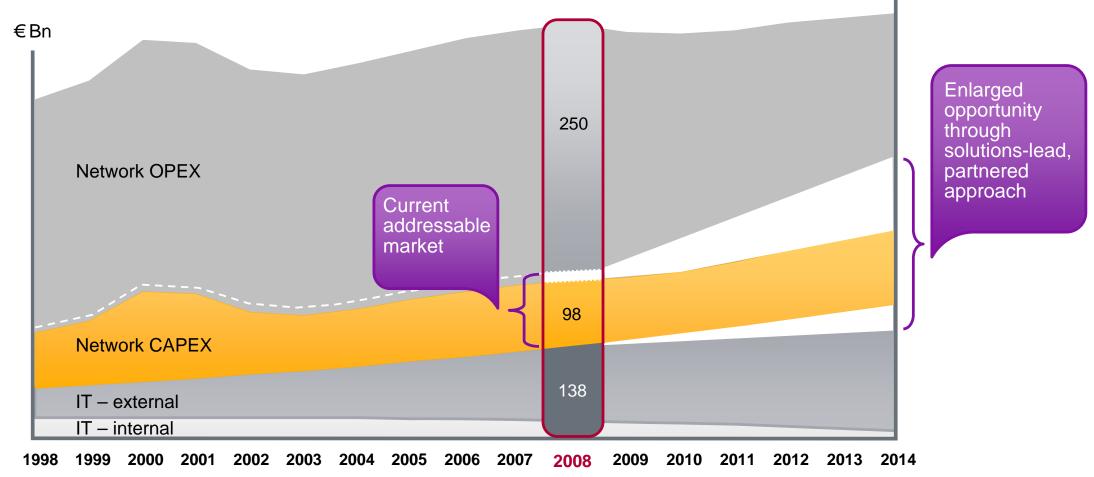
Priorities changing:

With challenges in top-line growth, optimised subscriber experience and OPEX reductions become key value drivers



The Opportunity for Nokia Siemens Networks

Fulfillment requires transformation



Source: Gartner, KPMG, Nokia Siemens Networks estimate



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Execution priorities for 2010

Reinvigorating the organization



Cost leadership

Driving for growth

Reinvigorating the organization: Customer-centric

Customer Operations Business Solutions Network Systems Global Services

Simplicity Speed **Empowerment** Customer focus

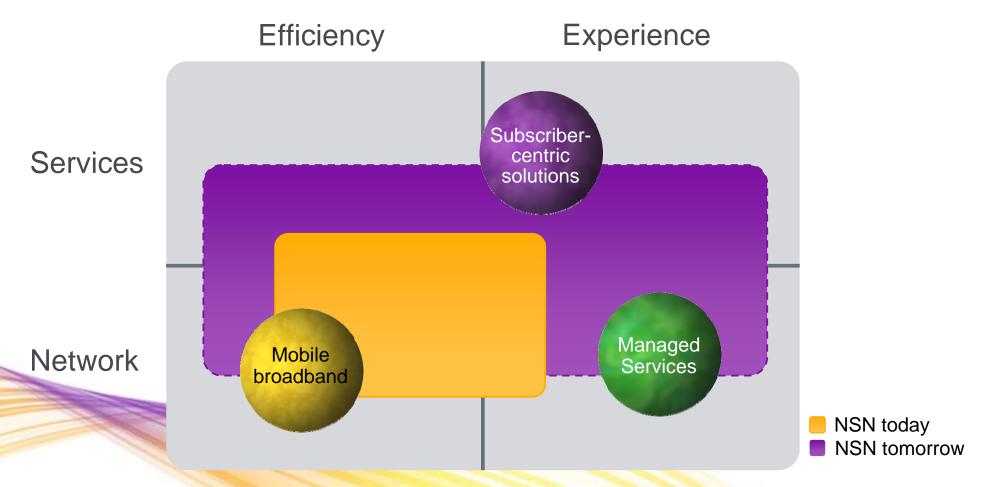


Cost leadership

- Plan to reduce annualised OPEX and production overheads by €500m by the end of 2011, compared to the end of 2009
- Plan to cut annual procurement costs by more than €500m
- Balance to low-cost, high-efficiency and new markets



Driving for growth: Building on our strengths





Forecasts and targets for 2010

- Nokia and Nokia Siemens Networks expect a flat market in euro terms for mobile and fixed infrastructure and related services market in 2010, compared to 2009
- Nokia and Nokia Siemens Networks targets for Nokia
 Siemens Networks to grow faster than the market in 2010
- Nokia and Nokia Siemens Networks target Nokia Siemens Networks non- IFRS operating margin of breakeven to 2% in 2010



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Key takeaways

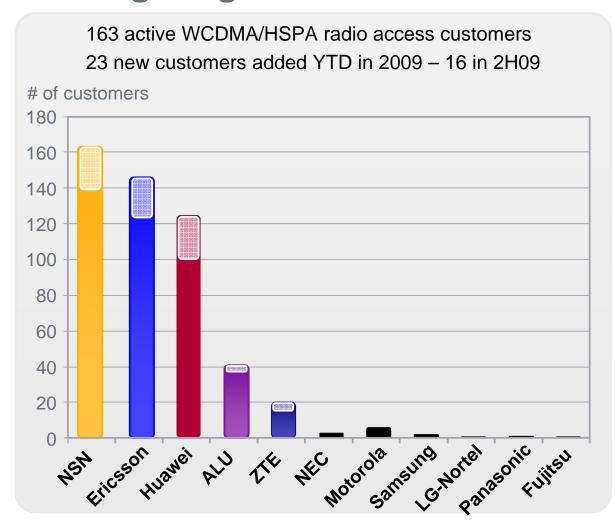
- Pursuing transformational opportunities –
 Professional Services leading the way
- Critical assets to enable best subscriber experience
- #1 mobile broadband customer base and offering
- Driving for growth portfolio view of key markets



Appendix



Driving for growth: Mobile broadband momentum



Undisputed LTE leadership

- First with LTE commercial HW: 100k LTE-ready BTS for 100+ operators
- World's first LTE call and handovers on commercial software
- Selected by 4 operators for LTE radio deployment, including NTT DoCoMo
- LTE Centers of Competence in all lead markets globally
- LTE core network pioneer: packet core for DoCoMo, Zain and IMS for Verizon



Driving for growth: Managed services momentum

Spain and UK 28,000 Services Professionals Complete operations of orange fixed and mobile multi Including 16,000 in Managed vendor networks Services 3GIS Shared network Successful onboarding of management >13,000 new MS employees Latin America Largest MS provider in Latin **Largest MS** America with a 5 year €1,1 billion ındıcom provider in India multi vendor managed services delivering complete operations contract for Unitech, Tata and 4 other **CSPs** Only vendor to gain market share in 2008* Middle East & Africa Underpinned by unique Global Delivery model Five-year multi-vendor managed services More than 230 MS contracts contract for 3.000 sites managing more than 300m in three countries



subscribers

^{*}Source: Equipment Vendor Services to Service Providers report, Infonetics Research, May 2009

^{**} Deals are public and non-public

Driving for growth: Solutions momentum

- Number 1 in NGN voice solutions
 - 260+ references for mobile soft-switching
 - 100+ references for fixed NGN
- Number 1 in customer data management; >1bn subscribers
 - 80 customers in 46 countries
- Prepaid leader with over 500m subscribers
- Installed 2,400 network management systems for 670 customers
- Over 760 systems integration projects
- 5 out of top 10 customers have paid for our business consulting services

Breakthrough win for our Service Delivery Framework at Globe



"We saw an end-to-end skill not only in hardware but also in Services... we thought if we are going to make leap in this leading edge application we need a trusted partner."

- Ernest L. Cu, Chief Executive Officer, Globe, Philippines

All-IP HSPA network at Bell Canada enhanced by unified subscriber database



By evolving to a subscriber-centric network with a unified subscriber database, Bell can reap the benefits of network efficiency and is also able to provide an enhanced personal experience to customers

Driving aggressive growth for leo™ with real time charging, mediation and subscriber data management



We opted for a trusted partner and their solution enables us to quickly launch attractive promotions and marketing campaigns

- Soban Paha, Chief Executive Officer, Leo, Namibia



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Timo Ihamuotila CFO

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One P&L in D&S – Two operating modes

Balance sheet and cash flow

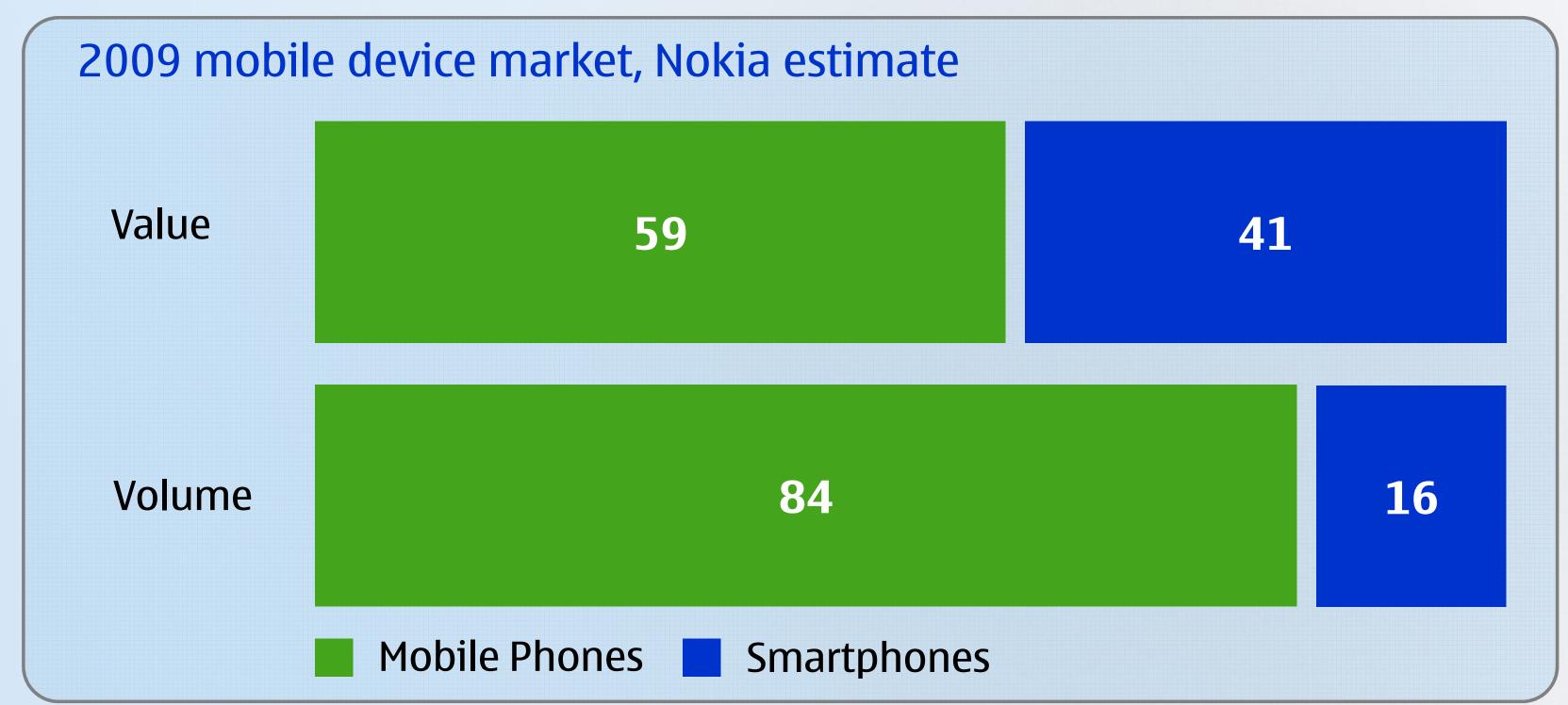
Financial targets



Market dynamics



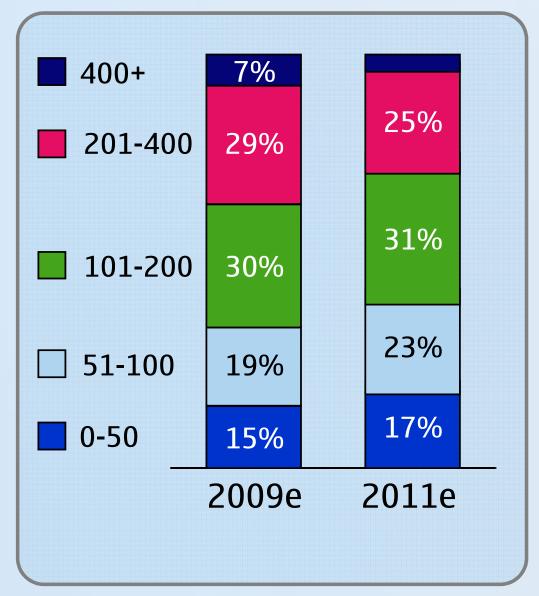
Industry value and volume





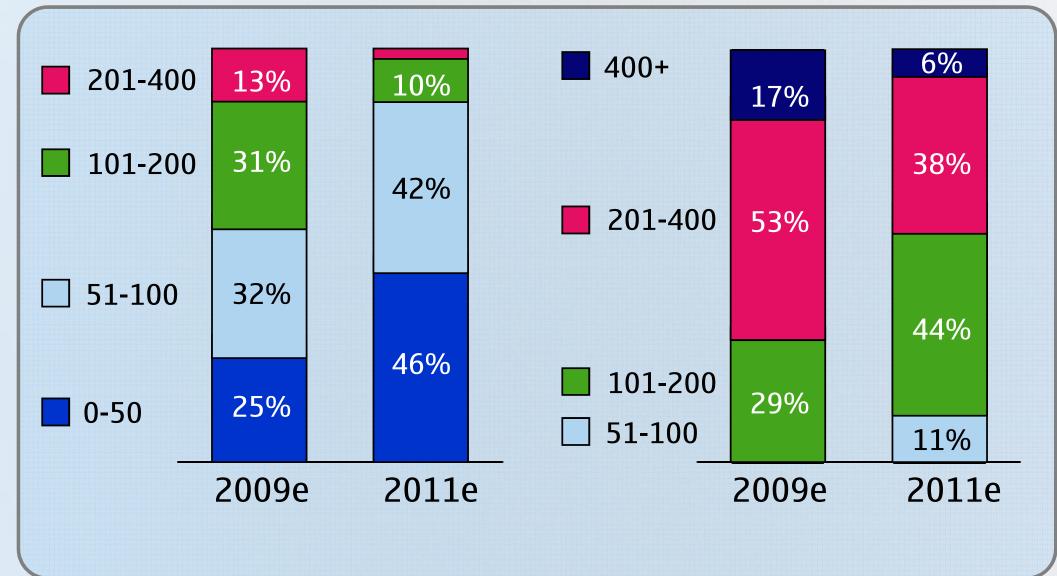
Industry market value – Two segments by price band

Mobile devices total



Mobile Phones





Source: Nokia estimates



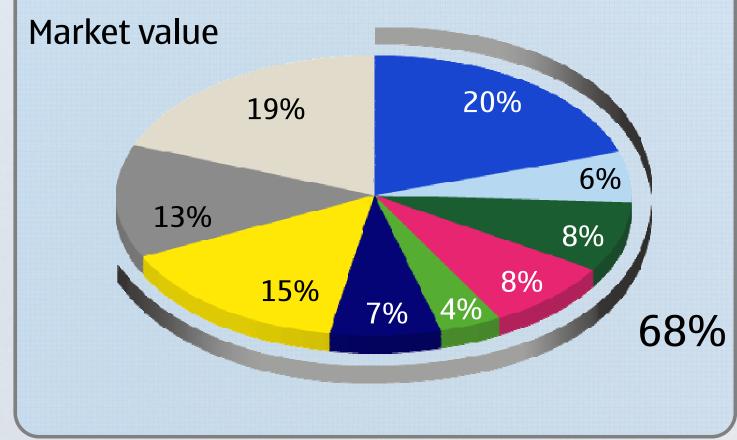
Industry market value – Geographic balance

2009e mobile device market



India

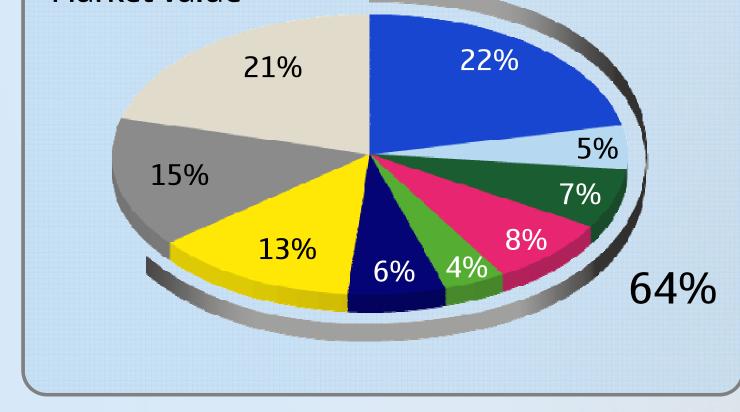
South East Asia & Pacific



Greater China

Japan & Korea

2011e mobile device market



Latin America

Middle East & Africa

Source: Nokia estimates

Europe

Eurasia

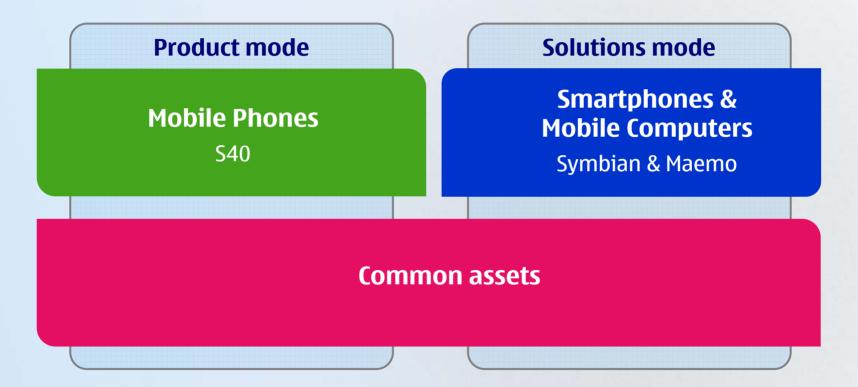


North America

One P&L in D&S – Two operating modes



Efficient use of Nokia assets





Efficient use of Nokia assets: Common assets

 World's 5th most valued brand in 2009 **Brand** Ahead of competitors in all brand metrics 1.1 billion consumers with Nokia device **Relationships** 5 000 trade customers Distribution World's widest distribution with over 650 000 points-of-sale 150 billion components from 150 suppliers Sourcing Long term relationships with best suppliers Protection for over 11 000 inventions (patent families) **IPR** Over 10% have been declared essential.



NSN plan



Reorganization

Realigning the company around three key areas to better serve customers

NSN 1.1.2010

Business solutions

Network systems

Global services

Cost focus

Targeting 500 MEUR annualized OPEX & production overheads savings by end of 2011, compared to the end of 2009

Drive for growth

Mobile broadband

Managed services

Subscriber-centric solutions



10

NAVTEQ



- Navigation becoming integral part of smartphones
- NAVTEQ gives Nokia ability to create new innovative services
- Cost of sales benefit to Nokia
- Nokia will continue investing in NAVTEQ





Balance sheet and cash flow



Balance sheet

Strong, simple and clean

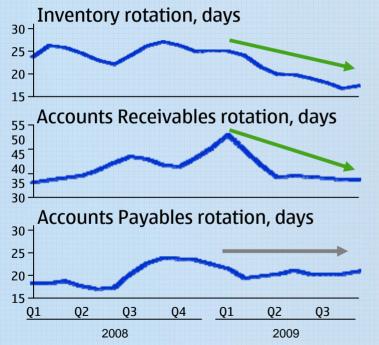
Q3-08	Q3-09
7.2 BEUR	7.4 BEUR
4.3 BEUR	5.3 BEUR
2.9 BEUR	2.1 BEUR
	7.2 BEUR 4.3 BEUR

End of Q3 2009: Nokia Siemens Networks' contribution to Cash and other liquid assets was 0.7 BEUR, Debt 1.3 BEUR and thus reduced Net cash by 0.6 BEUR



Devices & Services Cash Conversion

Inventory and Receivables efficiency improved throughout Q1-Q3 2009 and thus cash has been released from net working capital – focus to continue







Financial targets



D&S assets driving revenue & gross margin

Mobile Phones

- BOM & manufacturing cost benefit scale
- Embedded services

Smartphones & Mobile Computers

- Symbian scaling down to lower price points
- Maemo user experience driving sales at higher price points
- Device + Service = solutions supporting ASP

Common assets

Brand, relationships, distribution scale, reach and IPR



D&S assets driving operating margin

Mobile Phones

Targeting cost leadership in all aspects of business execution

Smartphones & Mobile Computers

- Reducing complexity of Symbian
- Investing in Maemo
- Focusing on key services & solutions

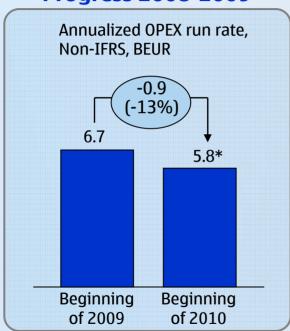
Common assets

Leverage combined scale across business segments



Devices & Services cost plan

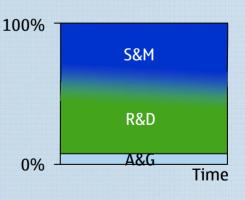
Progress 2008-2009



Plan going forward

- 2010 OPEX target: ~5.7 BEUR with mix shift towards S&M from R&D
- Target R&D to Net sales ratio < 10% in 2010

Longer-term focus on shifting OPEX mix from R&D to S&M





^{*} Nokia estimate

Nokia 2010 financial targets

Devices & Services

- Industry mobile device volume up approximately 10%
- Nokia mobile device volume market share flat
- Nokia mobile device value market share slightly up
- Non-IFRS operating margin 12-14%

Nokia Siemens Networks

- Mobile and fixed infrastructure and related services market flat in Euro terms
- Grow faster than the market
- Non-IFRS operating margin of breakeven to 2%

NAVTEQ

Non-IFRS operating margin higher than D&S



Summary

- Mobile devices market is stabilizing
- Nokia's competitive position is solid
- 2010 user experience milestones are key
- Building and sustaining competitive advantages in two operational modes:
 - Product mode (Mobile Phones)
 - Solutions mode (Smartphones and Mobile Computers)



Other financial targets

	2009E	2010E
Tax rate*	~26%	~26%
Capital expenditure (MEUR)	~540	~560
Depreciation and Amortization (MEUR)**	~830	~800
Financial income & expense (MEUR expense)	~260	~250
Common group functions (MEUR expense)**	~135	~140

^{*} Average tax rate for ordinary activities



^{**} Non-IFRS

Nokia software platforms The shape of things to come.

Sebastian Nyström, Vice President David Rivas, Vice President

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Nokia software platforms to connect 4 billion people.

> Overview

Series 40

Symbian

Maemo

Portfolio

Three simple options to capture value across all segments & markets

Each providing unique capabilities to differentiate

Tremendous opportunity for developers

Nokia software platforms to drive value and differentiation.

> Mobile Phones



Series 40

The world's most widely used mobile platform Mature, flexible and cost efficient Great ecosystem



> Smartphones | Status







Symbian¹

Reach: Channels, countries, price Extensive telecom support & configurations Smartphones for all price points





Symbian³

Fast and responsive single-tap UI with beautiful graphics Multi-touch with gestures like pinch and zoom Music experience re-energized



> Smartphones | Evolution

JI JI JIH/10

Simpler

A Multi Touch with Gestures

Symbian³

Simple, fast and beautiful Higher performance, better configurations Multi-touch and capacitive displays



> Smartphones | Evolution



Completely re-designed Simple, fast and beautiful Powered by Qt



> Mobile Computers



Maemo

No compromises. Linux based Built for the highest-end mobile computers Maemo 6 powered by Qt



10

Nokia software platforms shaping the things to come.

> Technology

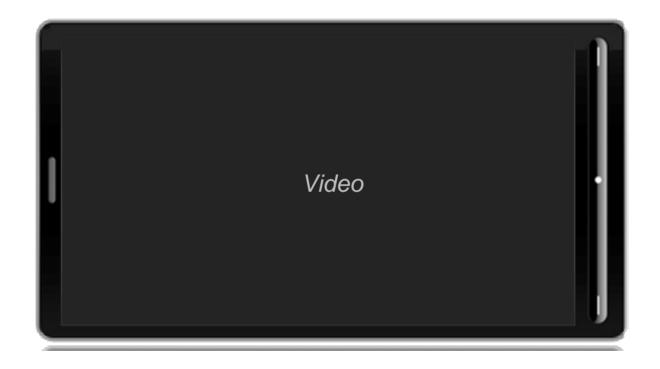


Simplification

From two choices to one
Built on open, industry-proven technology developers love
For all Symbian and Maemo devices



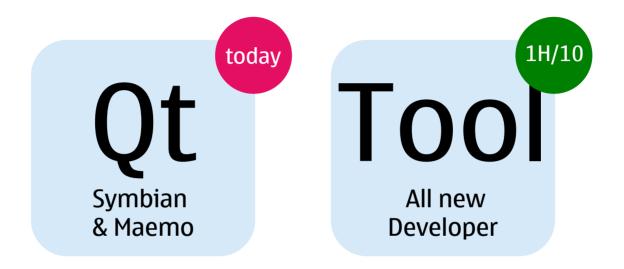
> Development





13

> Developer | Evolution



Developer

Easy, powerful, cross-platform development framework Qt 4.6 for Symbian and Maemo available today All new developer tools 1H/2010



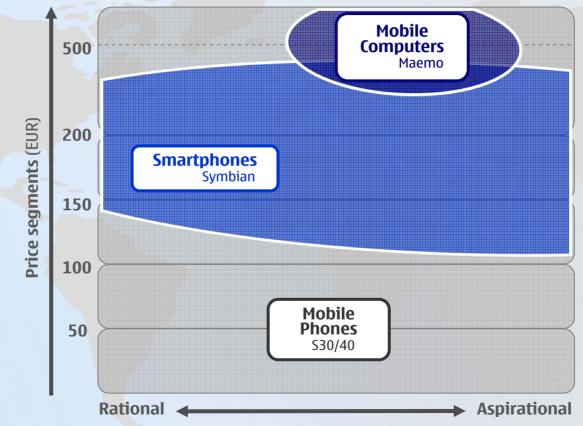
Nokia Smartphones Each one a success story

Jo Harlow, SVP, Smartphones Antti Vasara, SVP, Symbian Devices R&D

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Nokia Smartphones deliver outstanding consumer experiences that drive Services in the mass market



Nokia Smartphones deliver outstanding consumer experiences

that drive Services in the mass market







2010 takes Symbian to a new level in usability



SIMPLICITY.

GLOBAL. QUALITY.

LOCAL. BEAUTY.

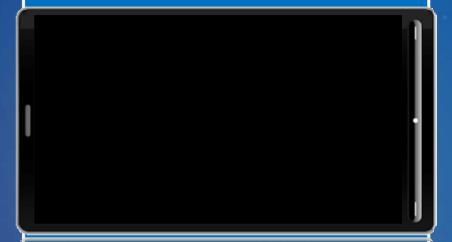
AT ALL PRICE POINTS.

Familiar UI Rich features Sleek design

Enhanced with touch



Fast & responsive UI hardware accelerated



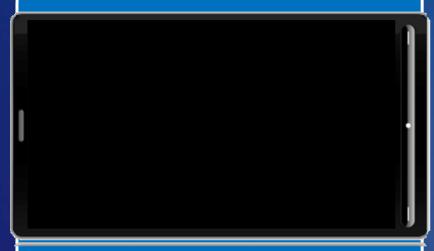
single-click interaction flick scrolling pinch-zooming multiple Home screens

NOW

IN 2010



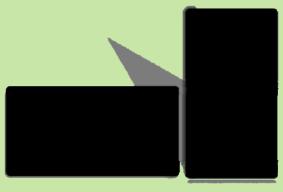
Fast & responsive UI hardware accelerated



single-click interaction flick scrolling pinch-zooming multiple Home screens

Next step UI by the end of 2010

Fully powered by Qt



- Content first
- Ultimate personalization
- **■**Totally optimized performance

IN 2010





...and it's Software that creates the true value





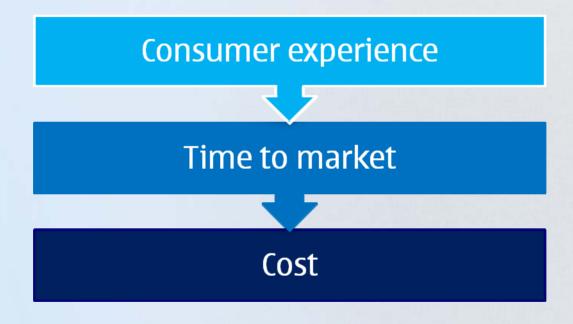


- Differentiation via software
- Services to the mass-market through the Symbian platform
- Value add with software upgrades





Our operations are streamlined and tailored to deliver innovation, speed and cost efficiency



Partnerships leveraged beyond product innovation







© 2009 Noki

Nokia Capital Markets Day 2009

Partnerships leveraged beyond product innovation





Mobile Phones

Rick Simonson EVP, Mobile Phones

Nokia Capital Markets Day 09

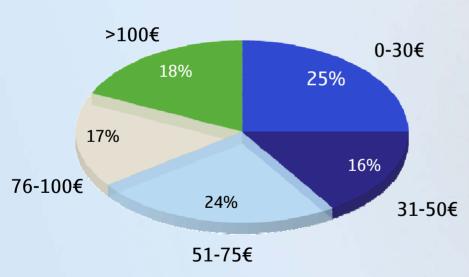
Nokia Connecting People
Espoo December 2nd

Mobile Phones drive the product mode of operation

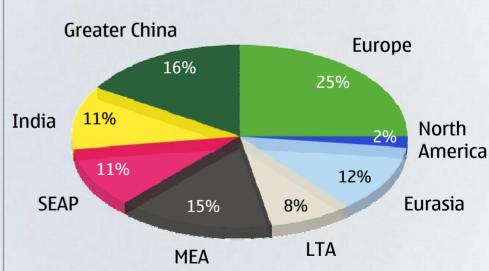


Mobile Phones covers a wide range of price points and markets

3Q 2009 Revenue by ASP Band



3Q 2009 Revenue by Geography (%)





Mobile Phones key focus areas

- Excellent products that command a brand premium
- Leveraging Nokia scale in manufacturing, sales and distribution
- Practical understanding of what consumers value, aspire to and can afford
- Lowest cost end to end business model

Leveraging a strong brand

Typically, **entry consumers** put even greater importance on **brand**Over 50% believe brand is one of the most important purchase criteria

Nokia holds a distinct **brand advantage** against key
competitors globally and locally

- 1 Cooler
- **Microsoft**
- 3 IBM
- 4



Source: Interbrand 2009

SWE FIN Central Eurasia

> MEA China India

> > SFAP

Brazil

SSA



World's most extensive reach through widest distribution network

Middle East and Africa: Nokia ~ 70 000 outlets Samsung ~ 30 000 outlets



China:

Nokia ~ 90 000 outlets and 1 000 care centers Samsung ~70 000 outlets and 250 care centers

India:

Nokia ~ **160 000** retailers and **800** care centers

Samsung ~ 50 000 retailers and 400 care centers





Practical understanding of what consumers value, aspire to and can afford

First time buyersAffordability and features
(e.g. FM radio)



Expectations transformed from basic communication to modern design, music, radio, internet and more

Also the emerging market is increasingly driven by **replacement buyers**

Replacement buyers
Differentiation and services
(e.g. Nokia Life Tools,
Messaging, Comes with Music)









Key drivers for the lowest cost end to end business model

- Competition coming from two different perspectives
 - Traditional competitors
 - MediaTek-based competitors
- We need to have continuous focus on gross margin through ASP, brand premium and COGS – by leveraging Nokia's component sourcing scale
- Increased focus on R&D Opex efficiency while making selected new investments
- Driving for efficiency and scalability in manufacturing
- Focus on efficient distribution channel, leveraging Nokia scale



It is not only about cost efficiency, but also innovation

Cost innovation

Less-packaging, smaller user guide Logistics optimization

Material innovation

Coatings, metal-look plastic etc. creating premium products at low cost

Feature innovation

Flash-light, radio (with internal FM antenna), camera

Quality with strong signal reception

Service innovation

Services built from the ground up, based on local context, local content and local language Nokia Life Tools, Ovi Mail, Nokia Money



Focused service innovation

Messaging

All methods to stay in touch with family and friends on one device (Mail on Ovi, 3rd party e-mail/ Nokia messaging/ Social networking)



Browsing

Optimized mobile browsing experience and widgets platform.



Nokia Life Tools

Out-of-the-box livelihood/life improvement enhancer for low income users (education, agriculture, entertainment)



Nokia Money

Easy and low cost access to banking services and payment alternatives for the unbanked



It's the beginning of a long lasting relationship! – Value adding to consumers and sustainably profitable for Nokia!

NAVTEQ

Larry Kaplan
President & CEO



Global Leadership in Location Content

In-Dash Vehicle



- Used by virtually every car manufacturer and system vendor in Europe and North America
- ~ 20 million in-dash systems in EU and NA with NAVTEQ maps

Internet & LBS



- Tens of billions of mapping transactions annually using NAVTEQ maps
- Internet focus rapidly evolving to local search services

Mobile Devices



- Significant share of EU PNDs and leading map supplier in NA
- ~50 million PND and smartphones in EU and NA have been enabled with NAVTEQ maps

Advertising



- First integration of advertising into a navigation unit
- 100 million monthly ad impressions on mobile network

Strong Customer Relationships

Automotive OEs



Internet &LBS



System Vendors



Mobile Devices



Telematics



Advertisers



Content Examples Enabling Compelling Experiences

Navigable Content



- HOV Lanes
- Extended Lanes
- Speed Limits
- Toll Guidance
- Scenic Routes
- Speed Zones

Pedestrian Content



- Neighborhood Boundaries
- Mass Transit Lines
- Pedestrian Paths
- Crosswalks
- Stairwells
- Travel Guides

Display Content



- Junction Views
- 3D Landmarks
- Digital Terrain
- 2D Building Footprints
- 3D City Models
- Satellite Imagery

Information Content



- Points of Interest
- Attribute Flags
- Truck / Transport
- Voice Phonemes
- Telecommunications

Safety & Security Content



- Precise Lane Geometry
- Road Curvature
- Road Slope
- Road Height

Traffic & Dynamic Content



- Traffic Patterns
- Real-time Traffic
- Gas Prices
- Event Listings
- Movie Listings

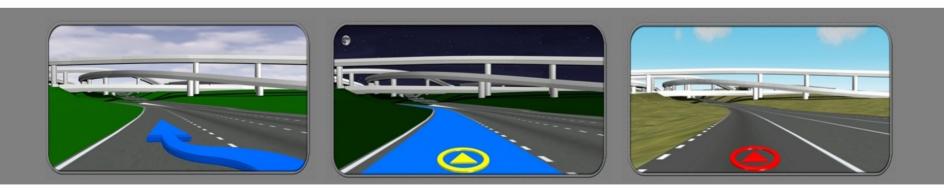
Easier Orientation: Motorway Junction Objects

Familiar 2-D Mode



Motorway Junction Objects in Complex Areas





Pedestrian Exploration & Routing: Discover Cities

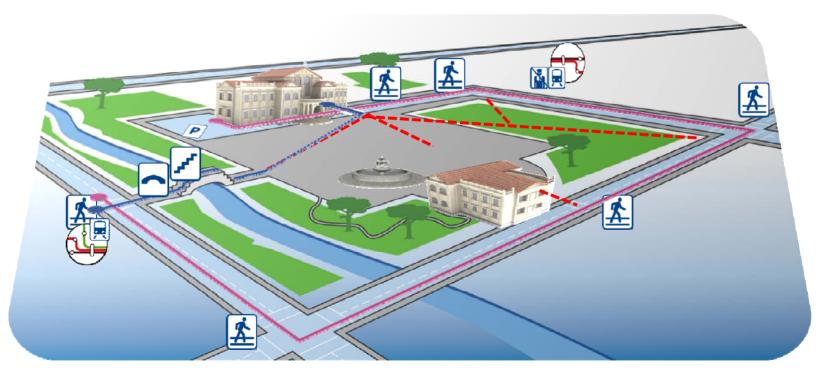
Pedestrian Geo & Sidewalks

Virtual Connections Pedestrian Stairs, Bridges & Tunnels

Cross-walks

Transit Entrance /Exits

Transit Lines & Schedules



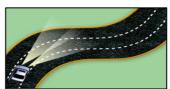
NAVTEQ

Potential Growth Driver: ADAS

Next Generation Applications Road height enhances transmission performance



Road curvature enables headlight aiming, curve warnings



Unique Content



- Hard-to-capture ADAS attributes including curve, slope and height
- Advanced features including speed limits and traffic patterns
- Base map subset to support business model requirements

Driving Industry Development

- Software research platform
- Pan industry specification design and adoption
- Map Positioning Engine (MPE) development

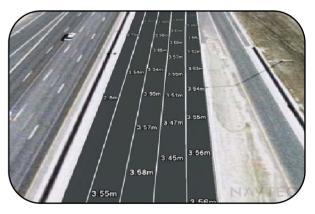
Using Field Collection Technology to Create Unique Content

Announcing NAVTEQ True

- Advanced field collection system
- Launching in Q1 2010
- Integrates Lidar, 360-degree video, IMUs, etc.







Using Communities to Decrease Cost Without Compromising Quality

Probe Feedback



- 3 billion monthly probe points in U.S. by Q3 2010
- Includes data from major handsets, PNDs and carriers
- Used in map maintenance and traffic products

Professional Feedback



+4 million professional inputs incorporated annually

Professional Drivers





Convention Bureaus









Consumer Feedback



- Leveraging community feedback for +10 years
- Automated validation of base data (e.g., geometry)
- Not a good source for advanced content

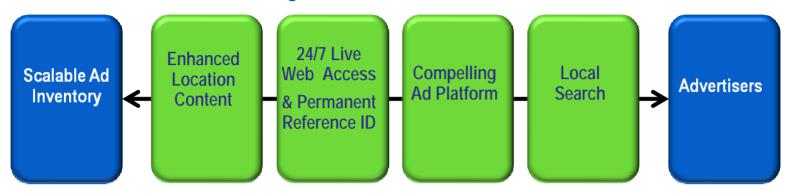
Enabling Alternative Monetization

Location Based Advertising



Enabling Alternative Monetization

Location Based Advertising



Developer Communities



- Founded in 2003
- Launched multiple applications into mainstream success (e.g., NIM)
- Selected as top performing developer site in Evans Data comparison of 23 developer sites
- Selected by leading companies and platforms (e.g., Intel, Bing) to attract location-based developers

Leveraging Nokia Capabilities for Growth

NOKIA

Innovation

- Mobile Millennium traffic / trip line project
- NRC server API technology

NOKIA

Distribution

- Consumer access through device proliferation
- Advertising inventory

NOKIA

Community

 Widespread implementation of Map Reporter for community feedback

NOKIA

Resources

- Access to preferred content providers seeking Nokia scale
- High growth client enabling additional reinvestment

Supporting Nokia Growth



 NAVTEQ Intermediate Maps developed for 33 new countries for launch in 2010



NAVTEQ
 Discover Cities pedestrian product in 175 cities by year-end 2010

Automotive Cooperation



Location Technology & Infrastructure Location referencing and content management systems



Developer Offerings

Higher Volume & Open Platforms

Purnima Kochikar

VP, Forum Nokia and Developer Communities

Nokia's Developer Offering:

Cross-Platform evolution expands

<u>opportunities</u>

Increase Total
Addressable Market
and ROI

Commit to
Open Source
SF / Maemo / Webkit

Lower Entry Barriers for Developers

Combine the Best of Mobile and Desktop





Momentum - Volume

Symbian

Recent Symbian launches X6, 5230, and N97 Mini demonstrate the viability of Symbian in different device ranges

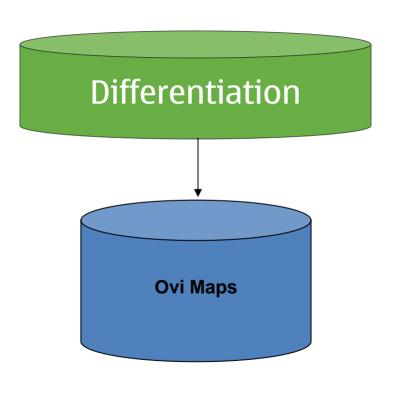








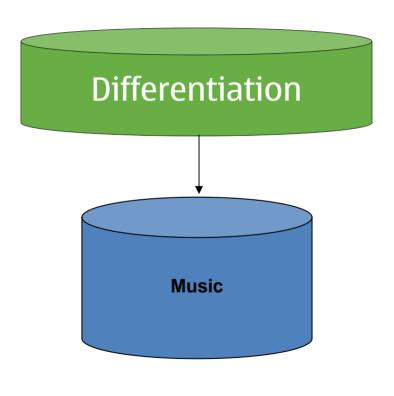






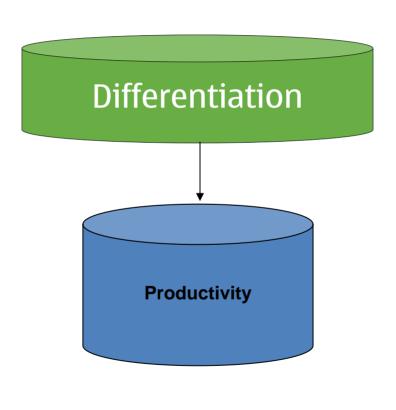






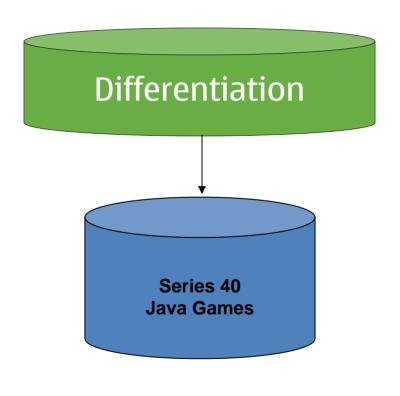






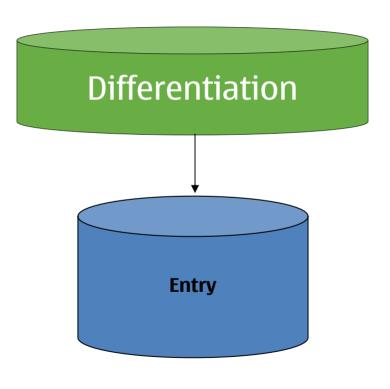














Opportunities for Premium Applications







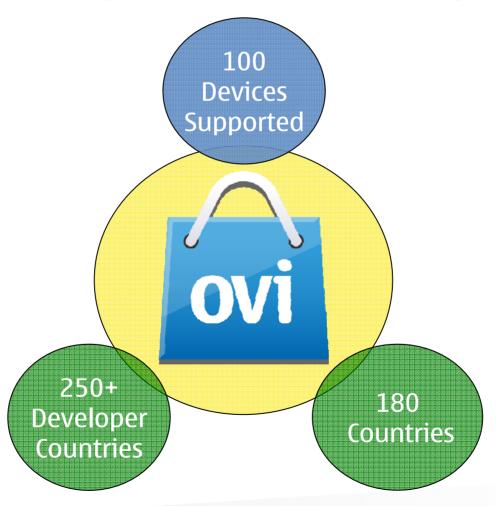
Elegant

Services ovi Symbian MCOMO.org Windows 7 **Applications Platforms**



Pervasive

Globally diverse, widely available, and constantly evolving





Plusmo ESPN Soccernet Widget





Gift of Light - Diwali Applications





Netflix – North America Themed





Xdancery – Preload on Nokia N97 in China





Innovative

Innovation creates business opportunities and changes lives











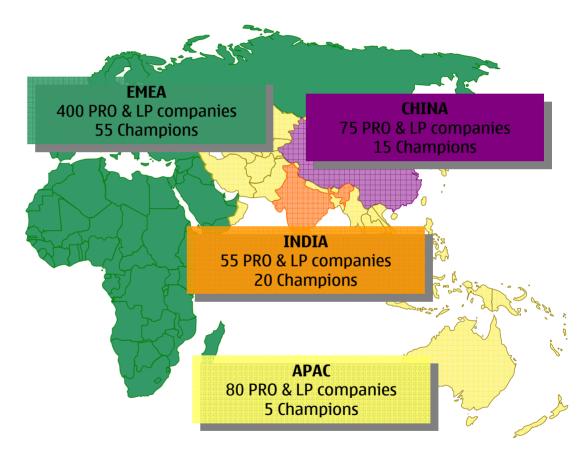






Engaged









Driving for growth

Bosco Novak

Chief Market Operations Officer

Enabling the Customer Experience



End-user behavior is changing From internet to "evernet"

"Free or fantastic" services

> Simplicity & user experience

Digital life goes mainstream

Invasion of smart devices in the home

Privacy and security

High emotional attachment to Internet super brands

Home



Enterprise



eLearning



HD Video conferencing



Unified communications



Home working



eMedicine



Remote security



Storage area networking



Community **VPN**



In order to provide necessary investments in building customer experience ...

... NSN also enables extreme efficiency solutions for operators



Communications Service Provider (CSP) in 2015: From network centric to customer centric

CSP Today

CSP in 2015

Network is complex

- Each network with own service platform landscape
- Many different billing / charging systems
- Several ways to deliver voice (TDM, ATM, VoIP)



Network is simple

- Centralized service hubs
- SDP and converged charging systems
- Flat network architecture
- Single RAN → evolution to multi-radio



Biggest business comes from voice

- Voice 80-90% of revenues
- Data dominated by SMS
- · Low, but increasing mobile data usage



Business comes from broadband

- Move to IP digital live is mainstream
- >25Mbit/s across the network
- 300x mobile data increase from 2008





Telecom & Media are separate businesses

- Own IT outsourced to 3rd party
- Some enterprise data-warehousing



Telecom, IT and media converge

- IT services and applications cloud
- Infrastructure provider and enabler
- Internet content and applications drivers of usage



Global CSP with independent operations

- Mainly local operator operations
- Limited synergies realized on cross-borders M&As



Centralized service operations architecture

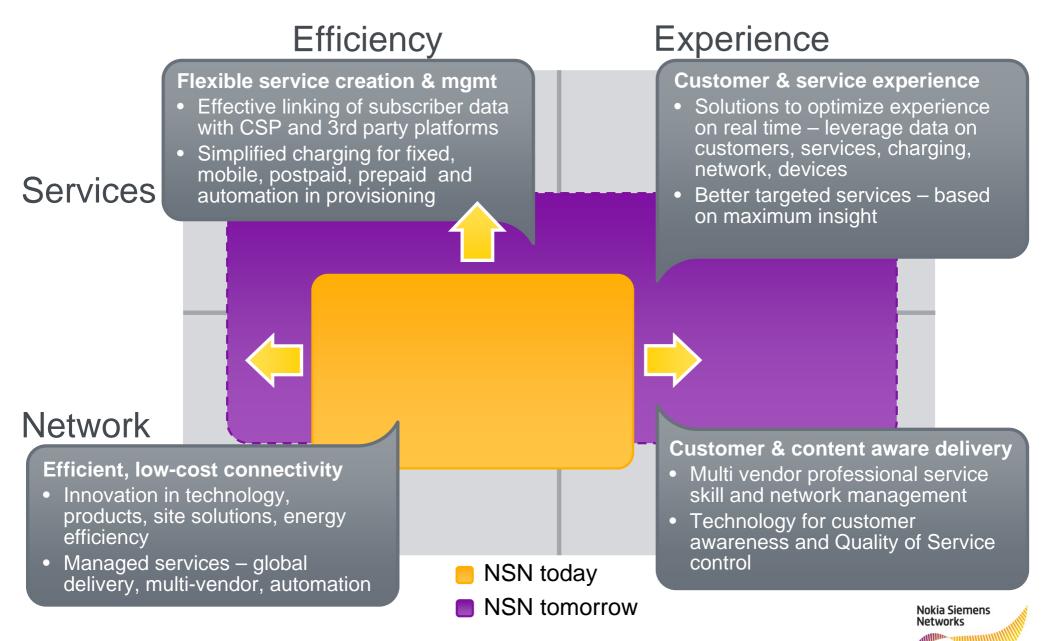
- Network is key asset, but operated by 3rd party
- Service hub across technologies & access



Source: Nokia Siemens Networks estimates



We help CSPs build customer value through efficiency and experience



Let's look at some success stories within our industry ...





We are getting deal momentum back

- Telenor Denmark awards the 1st Nordic LTE contract to NSN
- Chosen by NTT DoCoMo as their only non-Japanese supplier for LTE
- 22 new 3G deals secured in 2009 up to now
- Unitech Wireless India greenfield roll out with an important new customer
- Hutchison Hong Kong network modernization and expansion project
- Selected by Telefonica for (LTE) trial in the Czech Republic
- IDEA Cellular India: Device Management solution
- Oi Brazil multivendor / multi-technology Managed Service and Care contract
- Telenor Pakistan off-grid energy solution

"Nokia Siemens Networks secured 55.2% of total contract awards (2G, 3G, LTE) during the September 30th, 2009 ended quarter, beating Huawei (19.4%), and ZTE(14.9%)"

EJL Wireless Research, Nov/2009

Significant 1H2010 opportunities in key markets such as India, Brazil, US and China





Leading business transformation through services

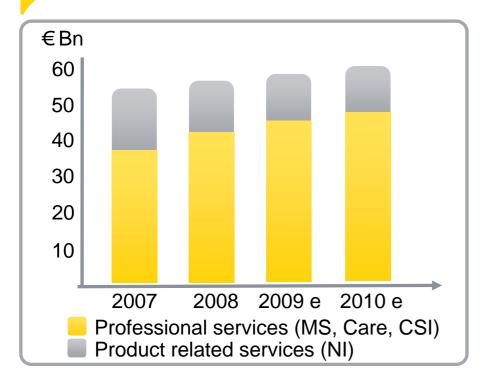
Ashish Chowdhary

Head of Global Services

Services is a growth market...

Key market trends

- Economic climate & driving Capex and Opex pressure
- Price erosion widespread
- Communication Service Providers (CSPs) and vendors identifying optimal role in value chain
- Investments into customer experience, complexity reduction

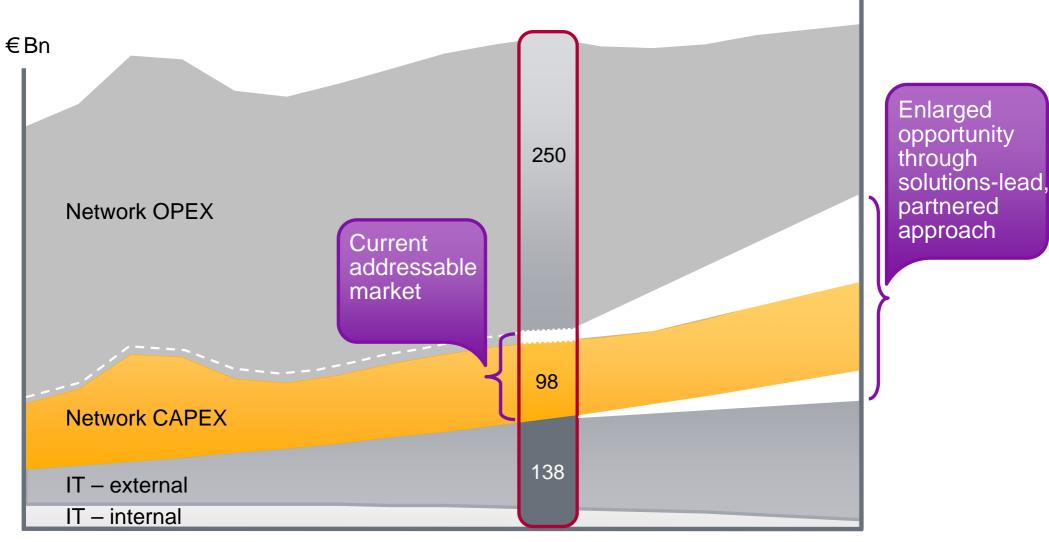


Our assets

- 600+ customers
- 28k service professionals across 150 countries
- #2 in Services
- #1 in Network Implementation
- #2 and fastest growth in Professional Services



...and there is a significant upside potential

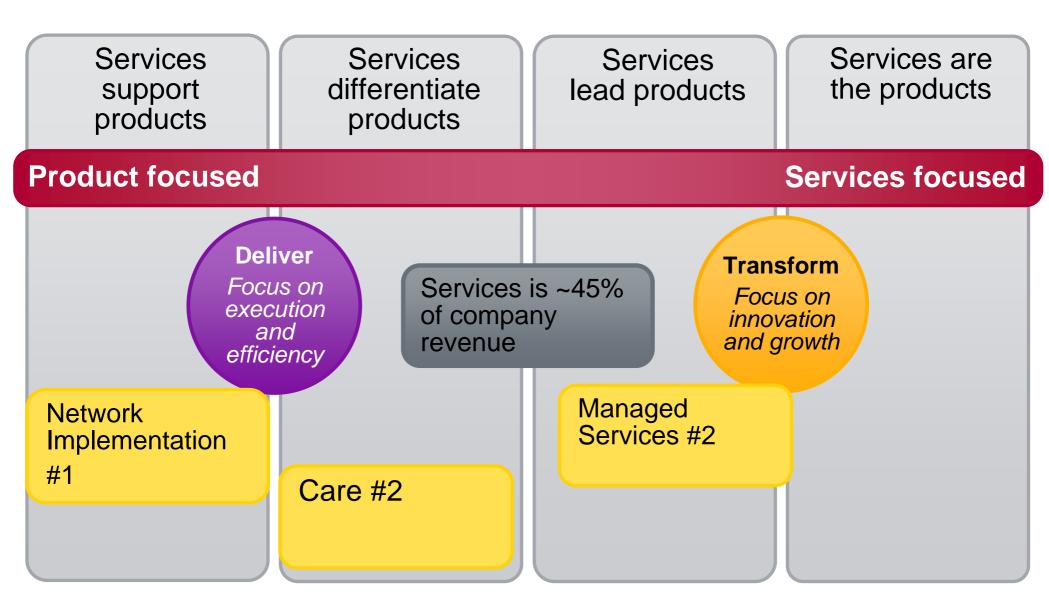


1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014

Addressing these new opportunities needs Transformation



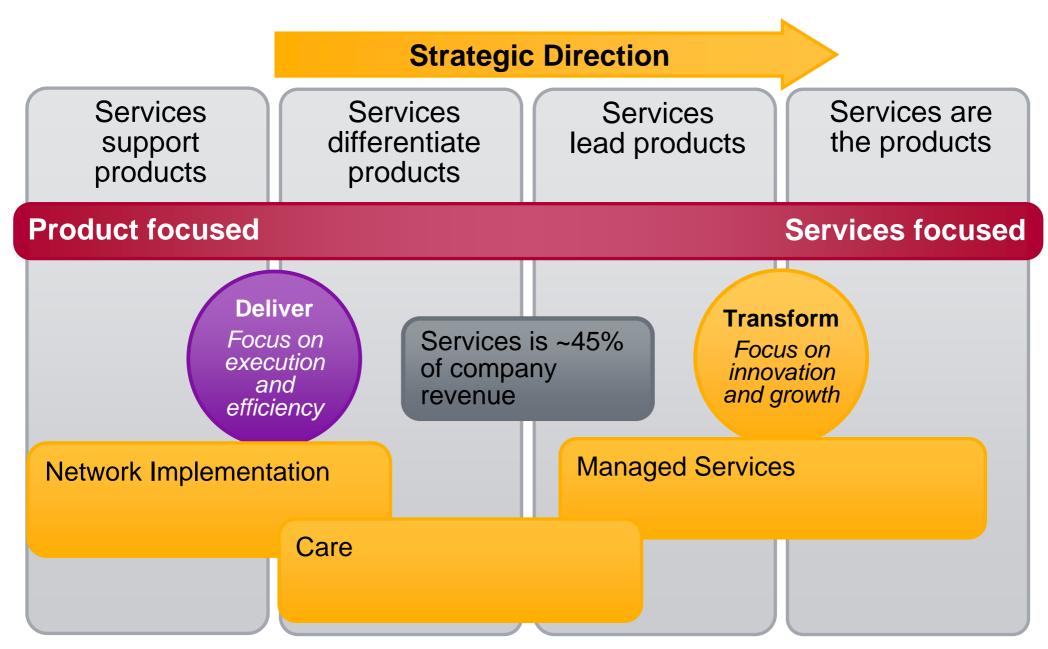
Services transformation to realize the potential



Source: Nokia Siemens Networks analysis



Services transformation to realize the potential



Source: Nokia Siemens Networks analysis



Driving for the future

- Managed Services a growth engine
- Care profitable and growing

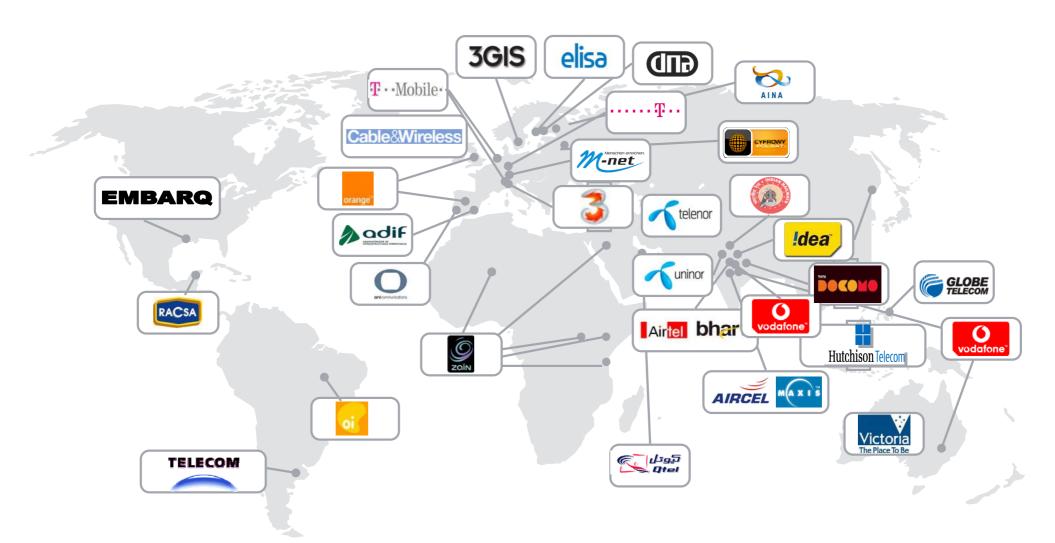


- Network implementation efficiency driven; opportunity for innovation
- Global service delivery key differentiator





Strong global presence in Managed Services



Managing networks ca 300 million subscribers





Over 230 Managed Services contracts



With strong win momentum in key markets...

North America EMBARG

First ever telecom outsourcing project in North America, Multi vendor operations

Europe

Complete operations of orange[®] fixed and mobile multi vendor networks in Spain & UK

3GIS

Shared network management

India

delivering complete operations

established CSPs

indicom Largest MS provider for new &

bharti Airte

Latin America

Largest MS provider in VIII Latin America with a 5 year €1.1 billion multi vendor managed services contract

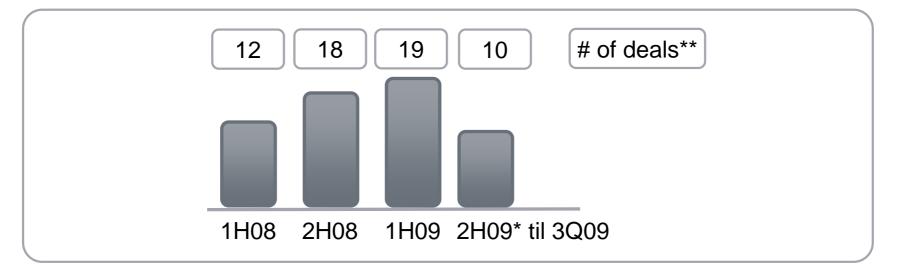
Africa

Biggest multi-vendor outsourcing case in the region; one of the first supplier swap Managed Services deals of its kind





1...and delivering efficiencies on large scale



#2 Managed Services vendor*





Only vendor to gain market share in 2008* Most deals in 2009

70 multi vendor networks managed





Over 800 planning and optimization projects are delivered per year

13 000 employees transitioned





Managing over 500k network elements, 50% from other vendors



^{*}Source: Informa report, March 2009 & Equipment Vendor Services to Service Providers report, Infonetics Research, May 2009

Deals are public and non-public

Care services – stable and growing portfolio of attractive services

- Healthy top line and margin growth
- Preventive Software Support services driving enriched customer experience
- Multi-vendor Care, Life extender portfolio winning more customers
- Opportunity in CSP internal Opex on network repair and maintenance
- Increased usage of global delivery driving costs down



- 6.5 Million visitors, 110 000 calls/ hour
- 0 outage and 0 end-customer complaints during Olympic Games, 100% reliability

Care services for industry's 2nd largest installed base

1 300 technical experts providing remote care services to over 360 customers

Increased usage of automation & global delivery - 74% of customer trouble tickets now resolved earlier (tier 1 and 2) up from 66% in 2007



3 Network Implementation – new growth opportunities in a traditional business

- Execution capabilities of 5 000+ base stations rollout per month
- Proven turnkey leadership
- Target growth areas around Multivendor and OSP rollout
- GM improvement despite sales decline
- Centralized, remote delivery & project management excellence
- Energy solutions driving Opex efficiency



- In a CSP in Germany we are installing non-NSN equipment
- In Indonesian CSP we are doing project management for a multi vendor rollout

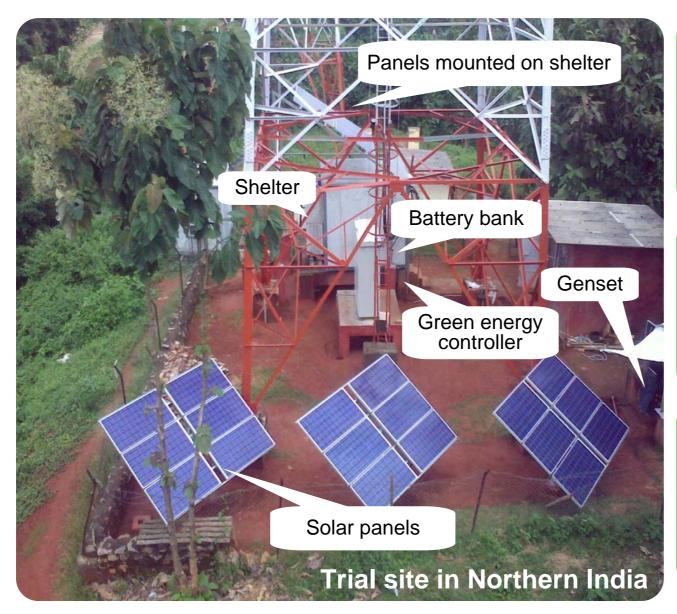
#1 in Network Implementation

11 projects & 100+ trials on green energy control already; 360 solar panels sites installed 1 site on air every 3 minutes

200k+ site integrations in 2008, 1/3rd remotely



3 Energy Solutions – Innovative portfolio addressing customers pain point around Opex





Demands
of rural
connectivity
2.6 billion people
have limited
access to
electricity



Opex efficiency ~86% of energy used in the network



Climate change resource scarcity & regulations

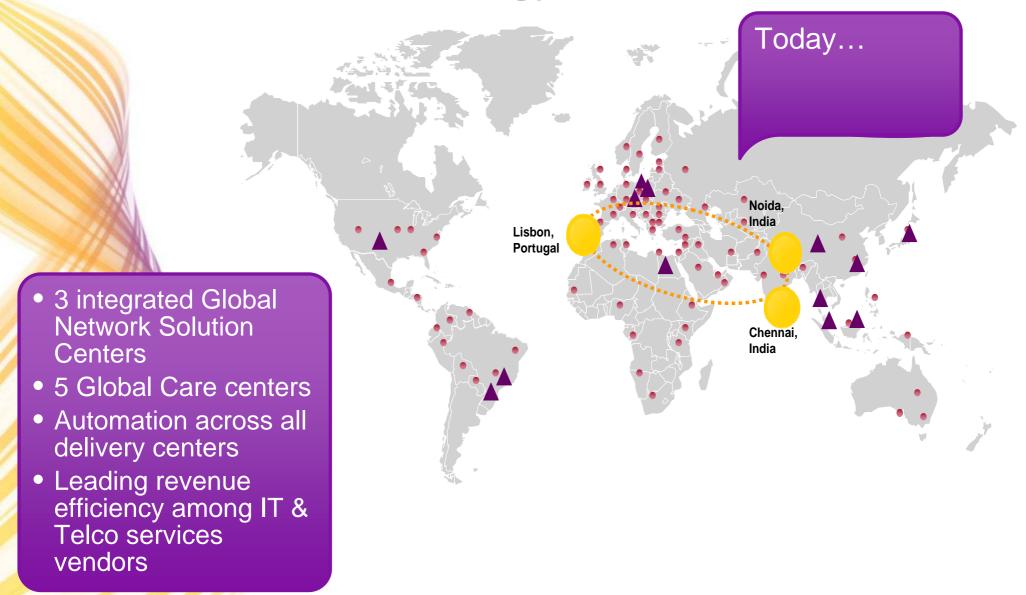


4 Global service delivery transformation: cornerstone of our strategy





Global service delivery transformation: cornerstone of our strategy





Business Transformation through efficiency

- Strong momentum in Services
- Growth opportunities in current market strong execution and operational efficiency
- New adjacent markets -Innovative portfolio and solutions
- Sustainable competitive advantages -People, Global Delivery and Customer centricity

