

The Symbian logo is displayed in a white rounded rectangle in the top left corner of the banner image. The word "symbian" is written in a lowercase, sans-serif font, with a small yellow dot above the letter 'i'.

symbian



Symbian and University Engagement

An Overview

Lawrence Simpson
Research Department
Symbian



“...the **mobile phone**...is most likely to carry the dream of the ‘personal computer’ to its conclusion”



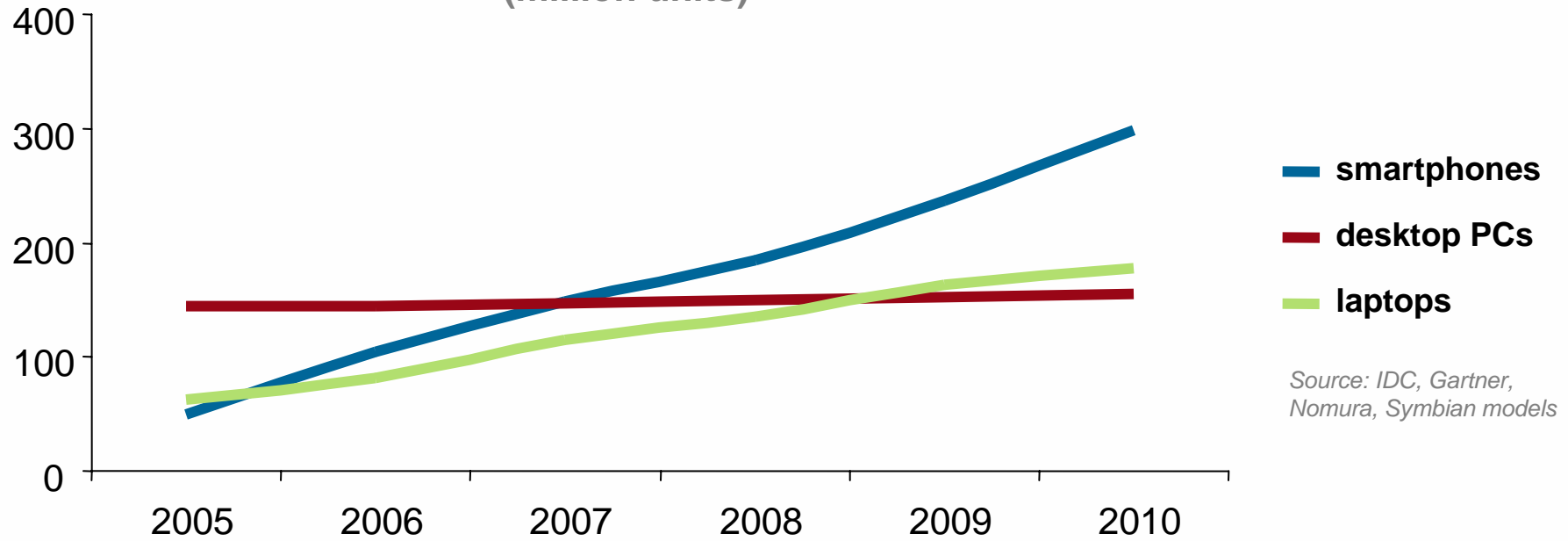
The “mobile phone” has evolved into the *converged mobile device* ...

- ... a platform for mobile computing
- ubiquitous networking
- multimedia
- location-based services
- context-sensitive applications



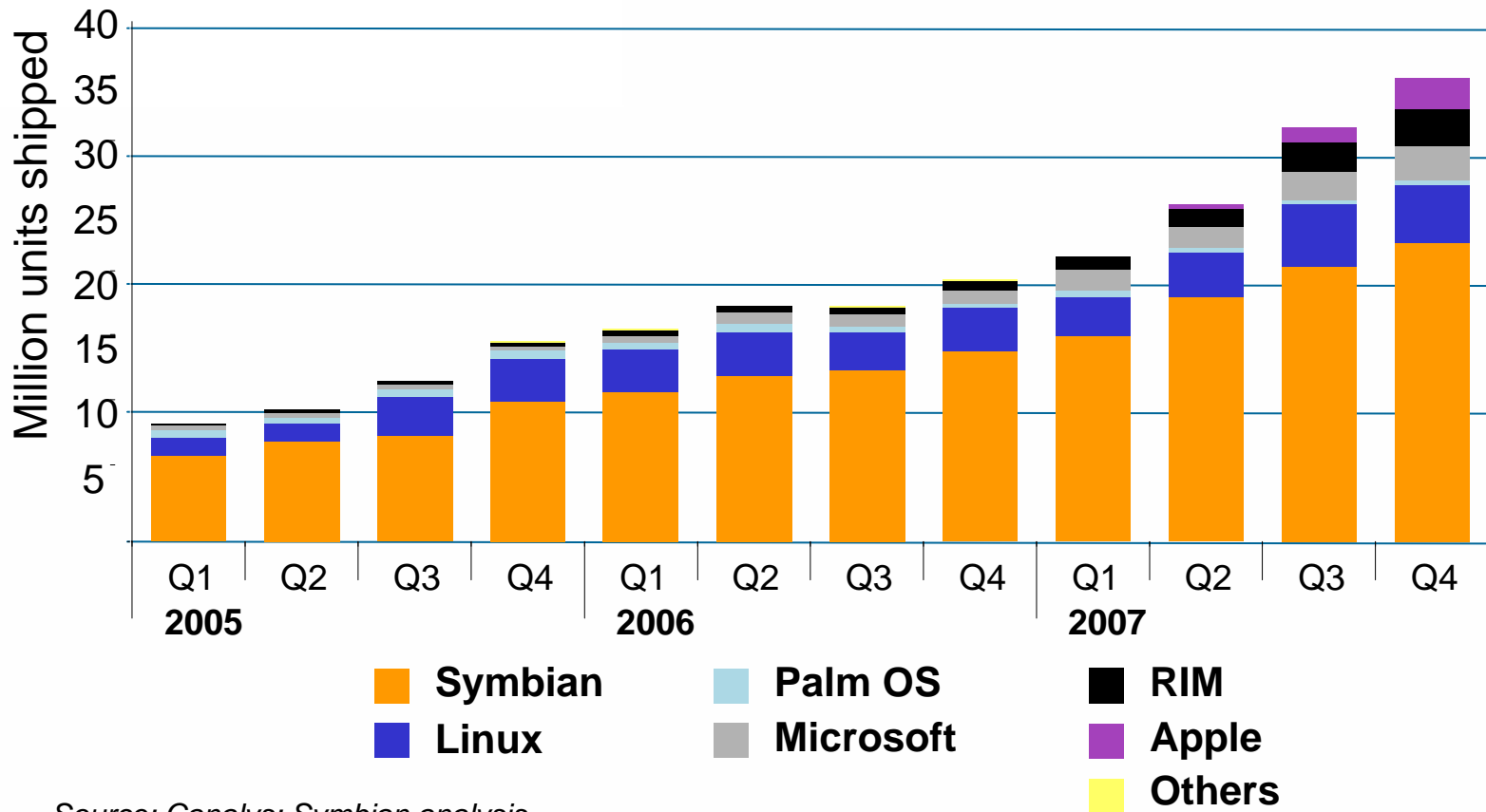
Smartphones are becoming more numerous than PCs

Market Growth Forecasts (pa)
Smartphones, Desktop PCs & Laptops
(million units)





Symbian is the prevalent Smartphone OS



Source: Canalys; Symbian analysis

The “smartphone” is no longer a niche market:

Over 200 million Symbian phones have been sold.

Symbian's share of the **overall** phone market increased from **5%** in 2006 to **7%** in 2007.



Symbian - some background



- Symbian OS is the market-leading smartphone operating system.
- Symbian was formed in 1998, by PDA-maker Psion and partners in the mobile phone industry.
- Current owners are Nokia, Ericsson, Sony-Ericsson, Panasonic, Siemens, Samsung.
- Symbian now has offices in Bangalore, Tokyo, Beijing, Seoul, the USA and has its headquarters in the UK.

- User interfaces designed for Symbian OS include Nokia's Series 60, NTT DoCoMo's MOAP, and UIQ.



After 10 years as a private company, Symbian goes open-source:

“LONDON, UK; June 24, 2008 -- Nokia, Sony Ericsson, Motorola and NTT DOCOMO announced today their intent to unite Symbian OS™, S60, UIQ and MOAP(S) to create one open mobile software platform.”

Background Slide:

Likely steps/phases in the move to Symbian Foundation

- This is a history-making large-scale move to open source. See symbianfoundation.org and many other sources.
- This is still in planning, but it seems likely that the sequence will be something like this...

Stage 0 (now):

- ... Government approval to proceed with the plan (multiple governments)
- ... Analysis, detailed planning, preparation.

Stage 1 (late 2008 or early 2009):

- ... Nokia buys all Symbian shares from other owners.
- ... All Symbian employees & premises become Nokia employees & premises.
- ... Symbian Foundation is created.

Stage 2 (2009 and onwards):

- ... Nokia donates Symbian OS & DP and Series 60 software to Symbian Foundation. UIQ and MOAP(S) will also be donated to the Foundation.
- ... Some Nokia staff transfer (back) to the Foundation – especially platform-related functions.
- ... Most Symbian developers remain working for Nokia – working on software that will be donated to the Foundation.
- ... Symbian software will be “decontaminated” of 3rd party IP component-by-component before it is made available as open source (Eclipse Public License). **It seems likely that this process will continue over a year or more.**
- ... Other technological evolution and developments needed to support the new combined platform.

Symbian University Engagement – three facets

www.symbian.com/universities

Symbian Academy

www.developer.symbian.com/academy

- Primary goals: Increasing the innovation and popularity of mobile software development.
 Grow the number of Symbian skilled graduates available to the Symbian ecosystem.
- ... Provides teaching support; course material and other teaching resources, and support through SDN.
 - ... Symbian Academy jobs board ties students with employers in the Symbian ecosystem
 - ... Growth in specific regions based on Symbian ecosystem needs

University Research Relations (URR)

research@symbian.com

- Primary goals: Promote awareness and use of Symbian as a platform among academic researchers.
 Increase Symbian presence in research on ubiquitous computing & converged devices.
- ... Engages with universities' research programmes.
 - ... Supports research on Symbian-related topics or other research that uses Symbian as a platform.
 - ... Also promotes Symbian presence and presentations at academic conferences & journals.
 - ... A new role in the Symbian Research dept, created June 2008.

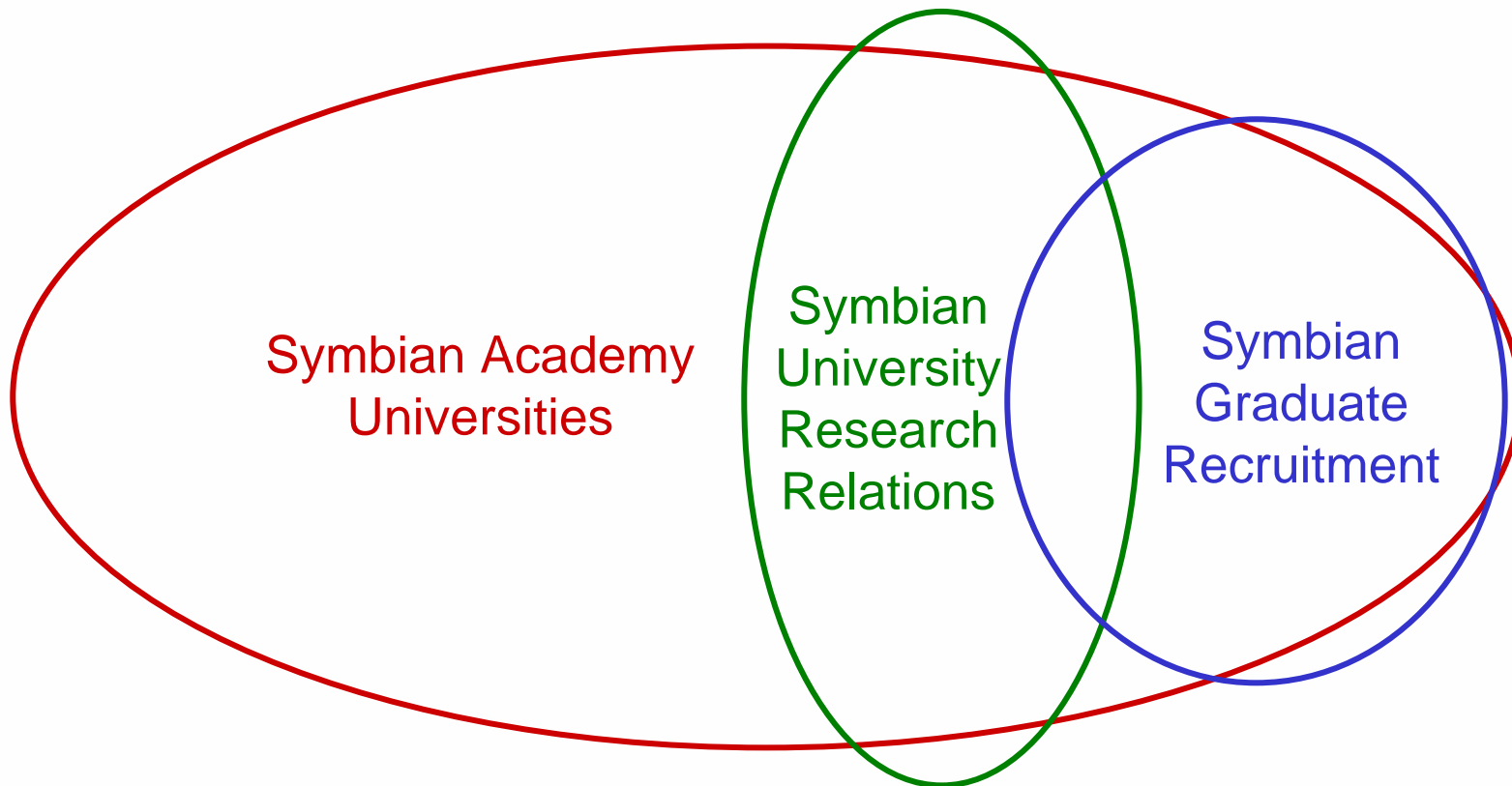
Graduate Recruitment

www.symbian.com/graduates/

- Primary goals: Recruit excellent graduates from universities for positions in Symbian.
 Provide structures for training, networking, and career development of the new grads.
- ... Engages UK universities in a series of recruitment events.
 - ... Manages the graduate recruitment process and Bootcamp training programme.
 - ... Works with universities to provide student placement & internship in Symbian.



- These programmes are designed for *complementary overlap*.
- Symbian Academy provides a base for most other University Engagement.



Background Slide:

Software in a Symbian Phone – “Habitats of the Symbian Eco-System”

User-Installed Applications

“In-the-box” Applications

(commissioned/written by the phone-maker, built into the phone ROM)

User Interface
(S60 or UIQ or MOAP)

Symbian OS

Hardware Adaptation Software
(usually from chip-vendors or 3rd parties)

Symbian Academy support & services

- Software (SDKs and example software)
- SDN Technical support
- Course materials (complete courses or case studies & examples)
- Instructor training
- Teaching notes
- Books & documentation
- Exercise material
- Promotional material and services
- Students can gain Accredited Symbian Developer qualification
- Updates & news
- Community support & involvement with other Symbian Academy institutions
- Guest lectures & workshops with Symbian subject-matter experts
- Internship opportunities for students
- Networking opportunities for academic staff
- Research opportunities & contacts

University Research Relations

- Provides Access
 - ... Academic Licenses for needed binaries, source, documentation
- Provides Technical Support
 - ... First level of support is Symbian Academy / SDN
 - ... Direct access to subject-matter experts and additional documentation for Symbian technologies
 - ... Advice & assistance with system-level build & test techniques
 - ... “Find a solution” service to ease researchers’ problems
- Encourages Cross-Fertilisation of Ideas
 - ... Participation in seminars & presentations
- Some Research Funding Available
 - ... New program to provide funding for research of specific interest to Symbian
 - ... Continuation arrangements to reduce uncertainty during transition to Symbian Foundation

Note: At this early stage, URR support is still labour-intensive, so the focus is mainly (but not entirely) on universities “easily accessed” from Symbian Offices ...

How much of this will change with the move to Symbian Foundation?

- The goal is to provide effective continuity – details currently being planned.
- Some University Engagement functions will move to Symbian Foundation, some to phone-makers UE functions.
- Names may change.
- Structures and contact points will be migrated/merged.
- Academic licenses will “fill the gap” in the interim period while source is not yet openly available.



University Engagement with Symbian – step by step

1	For background documentation & support, sign up with SDN – the Symbian Developer Network.	developer.symbian.com
2	For overall university engagement & support, and/or course materials contact Symbian Academy.	developer.symbian.com/academy
3a	Interested in Symbian-related research projects? Send enquiries or proposals by email.	research@symbian.com
3b	Enquiries about Graduate Recruitment – internship and permanent positions.	www.symbian.com/graduates/

- If your interest is commercial / non-academic, see symbian.com/partner
- For non-graduate career opportunities, see careers.symbian.com

Symbian Essay Contest 2009

- Following the success of the 2008 Symbian Essay Contest, the 2009 contest is now open
- Open to all university students around the world
- Planned as two rounds of entries and prizes – first round closes 31 January 2009
- Up to ten £1000 prizes in 2009
- See symbian.com/universities for link to details