

symbian



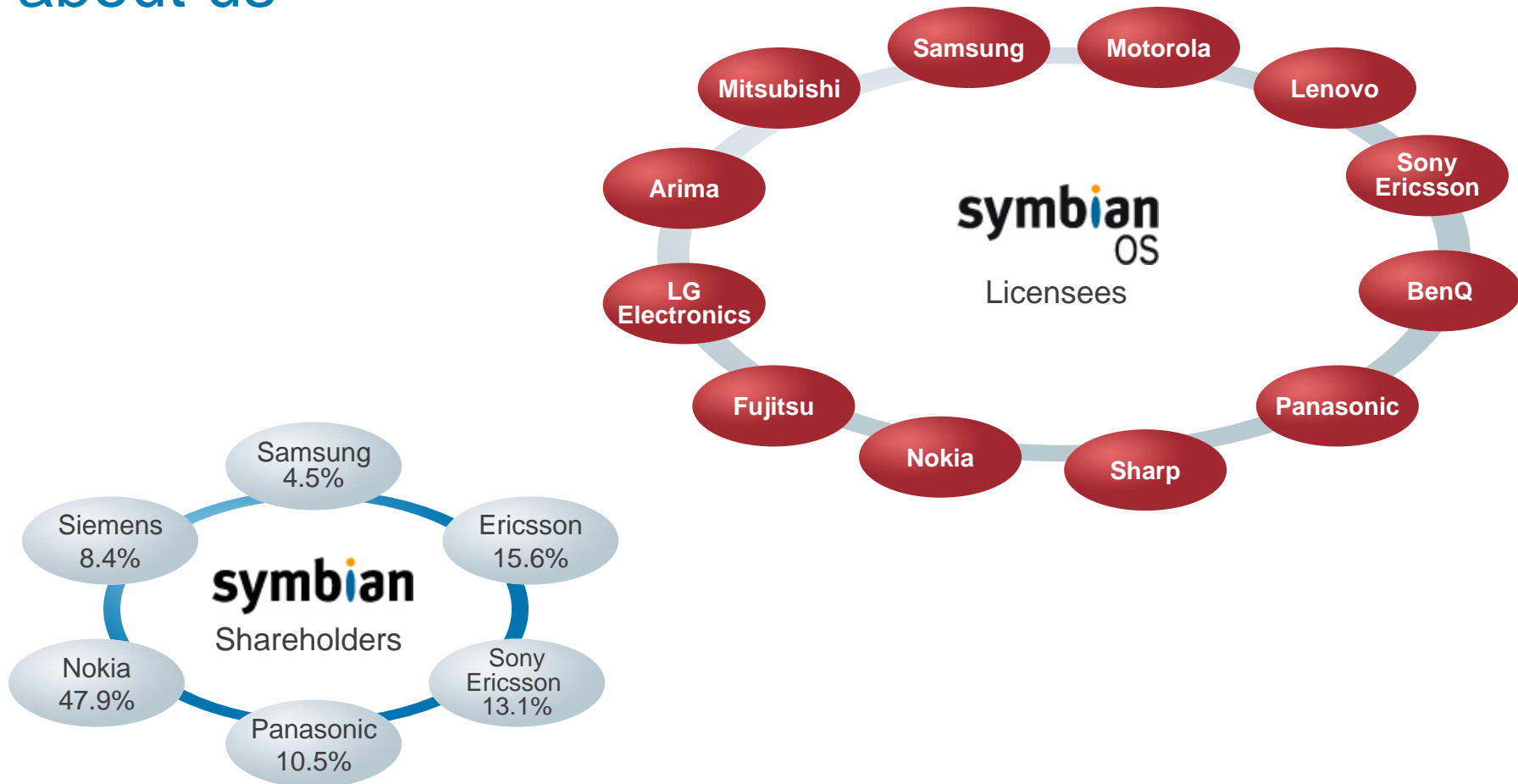
Introduction to Symbian Research

David Roberts, Liz Laffan

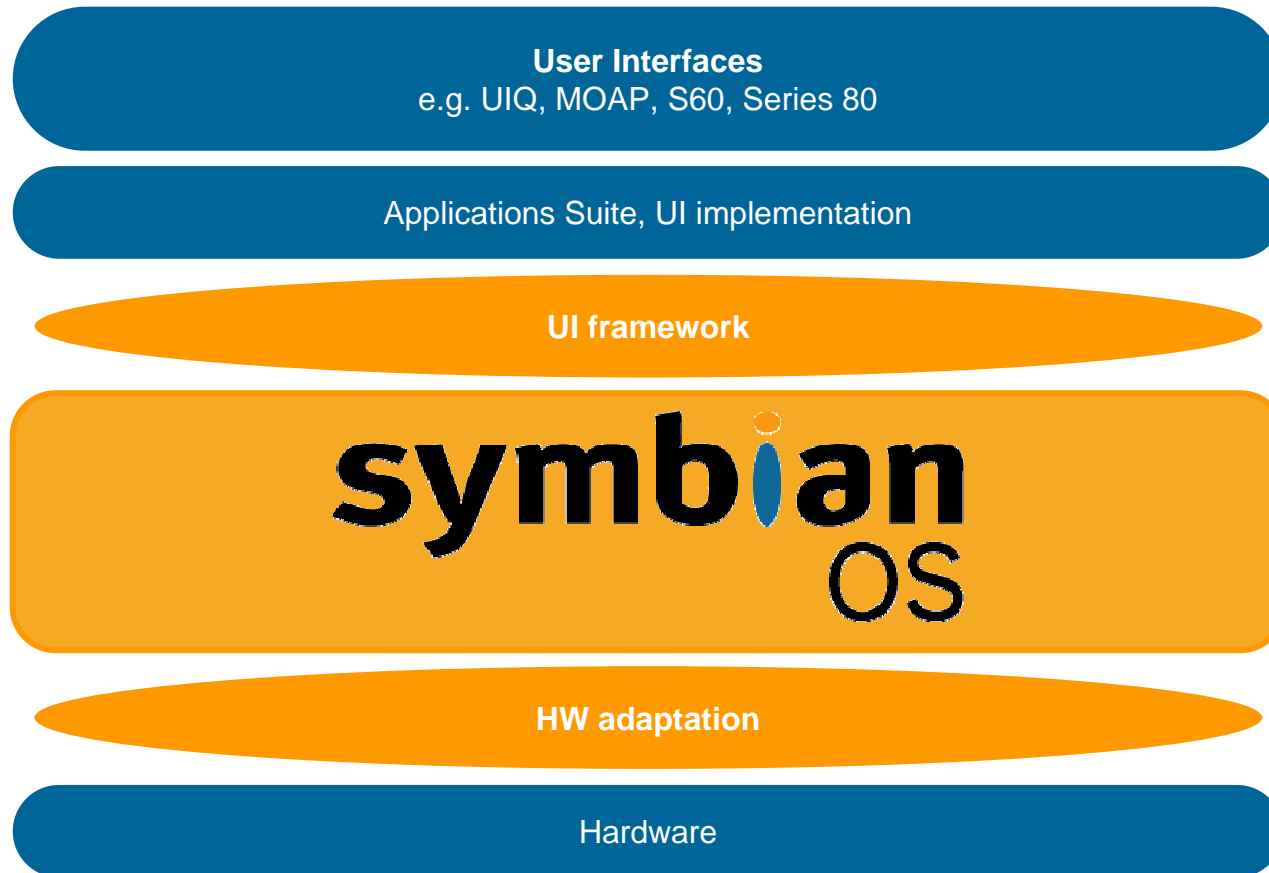
At the heart of the smartphone market

- Symbian is an independent for-profit company whose mission is to establish Symbian OS as the world standard for mobile digital systems, primarily for use in cellular telecoms.

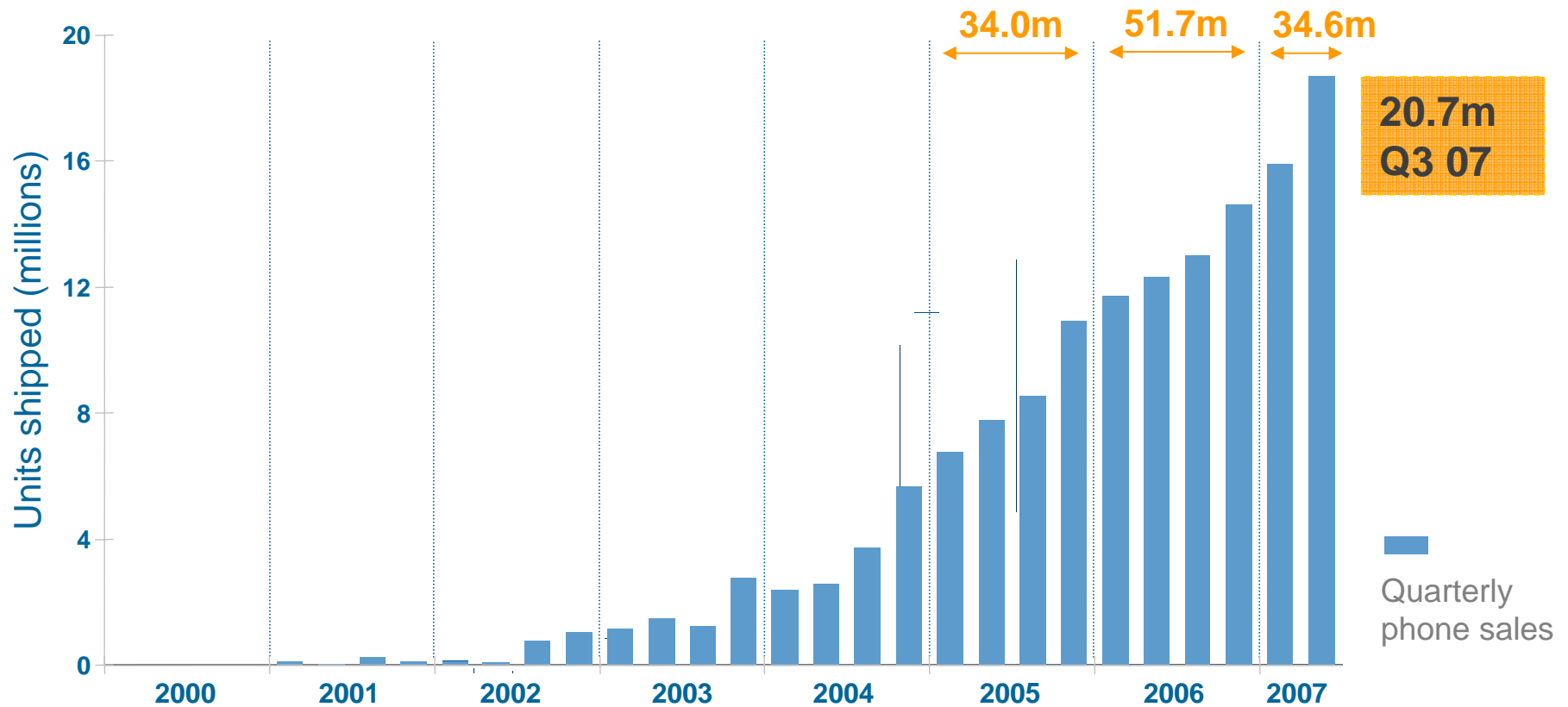
about us



The Symbian Product

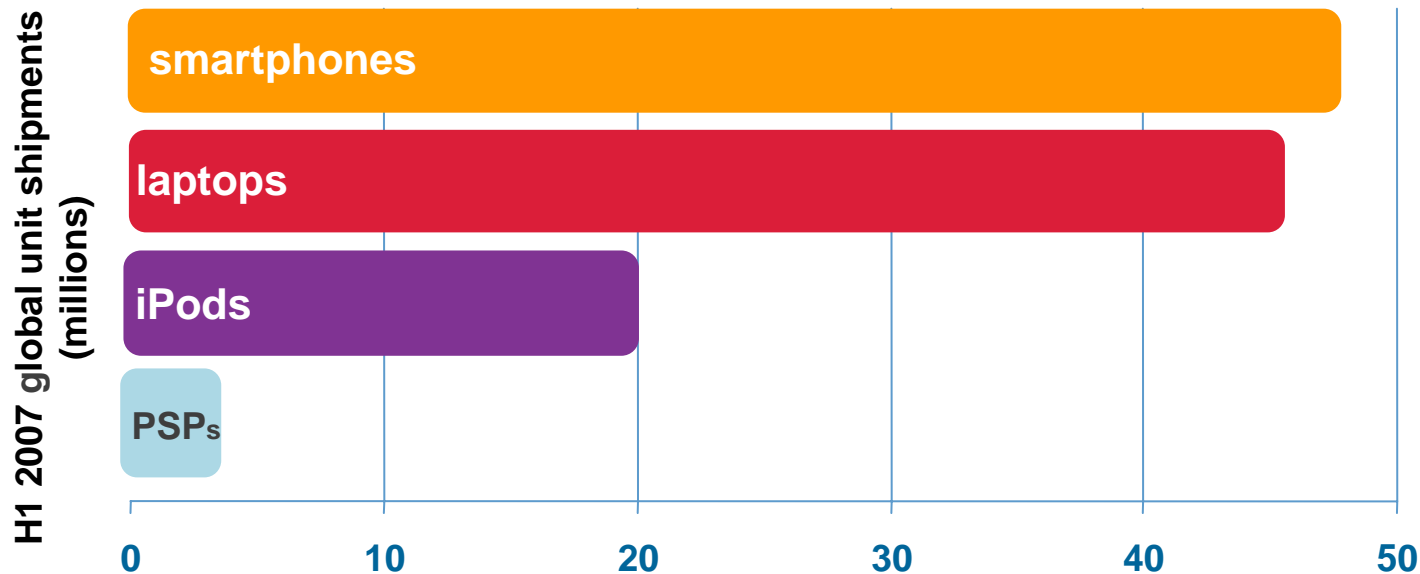


55 million Symbian smartphones shipped in 2007



165 million cumulative units shipped at the end of Q307

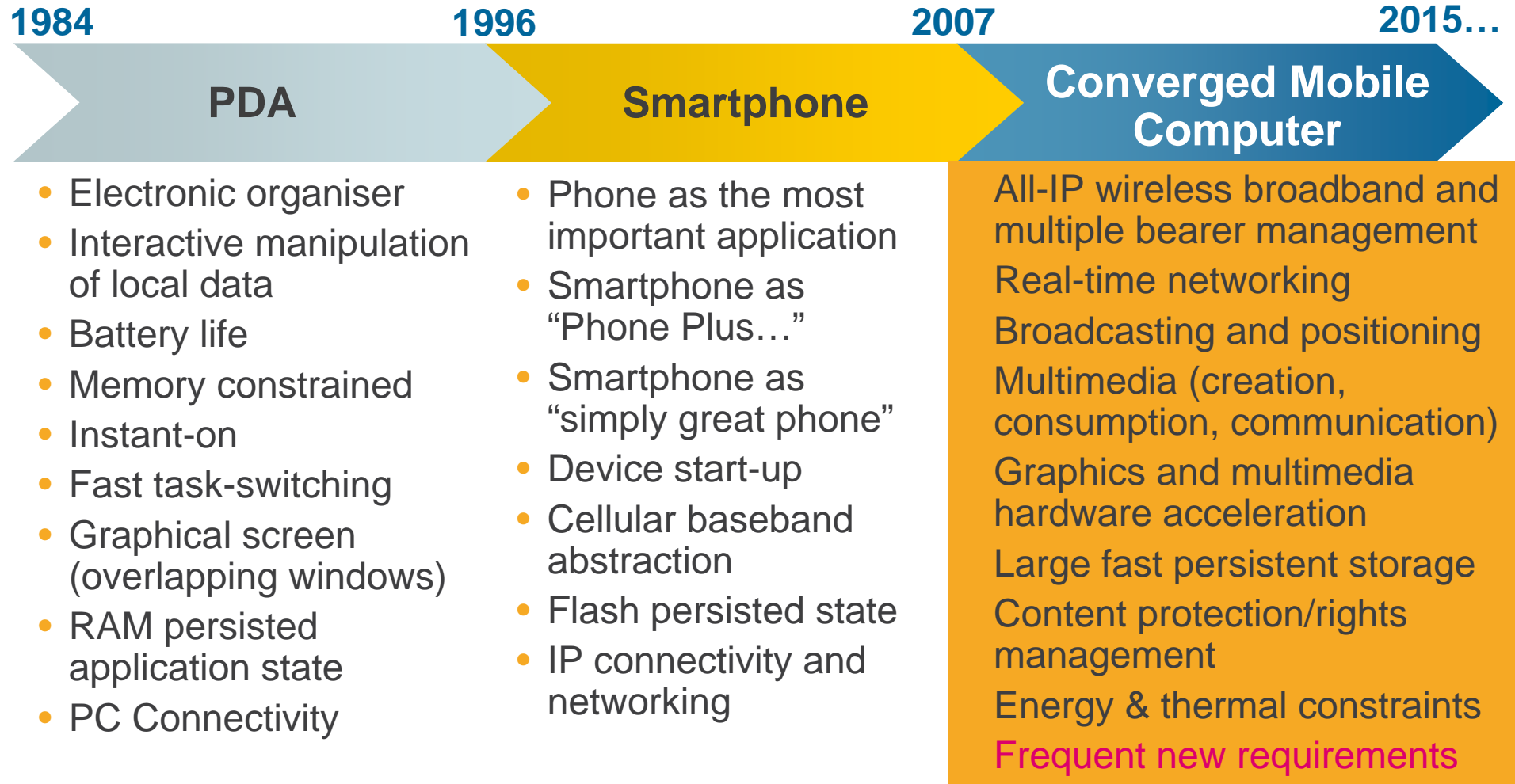
Mass-market inflection point



*At the current rate of innovation and proliferation, the open OS segment will surpass the **1 billion cumulative sell-through mark in 2010**. At this time, smartphones will comprise over 20% of all handset volumes.* John Jackson, Yankee Group

Source: IDC, Apple, Display Search, Canalys, Gartner

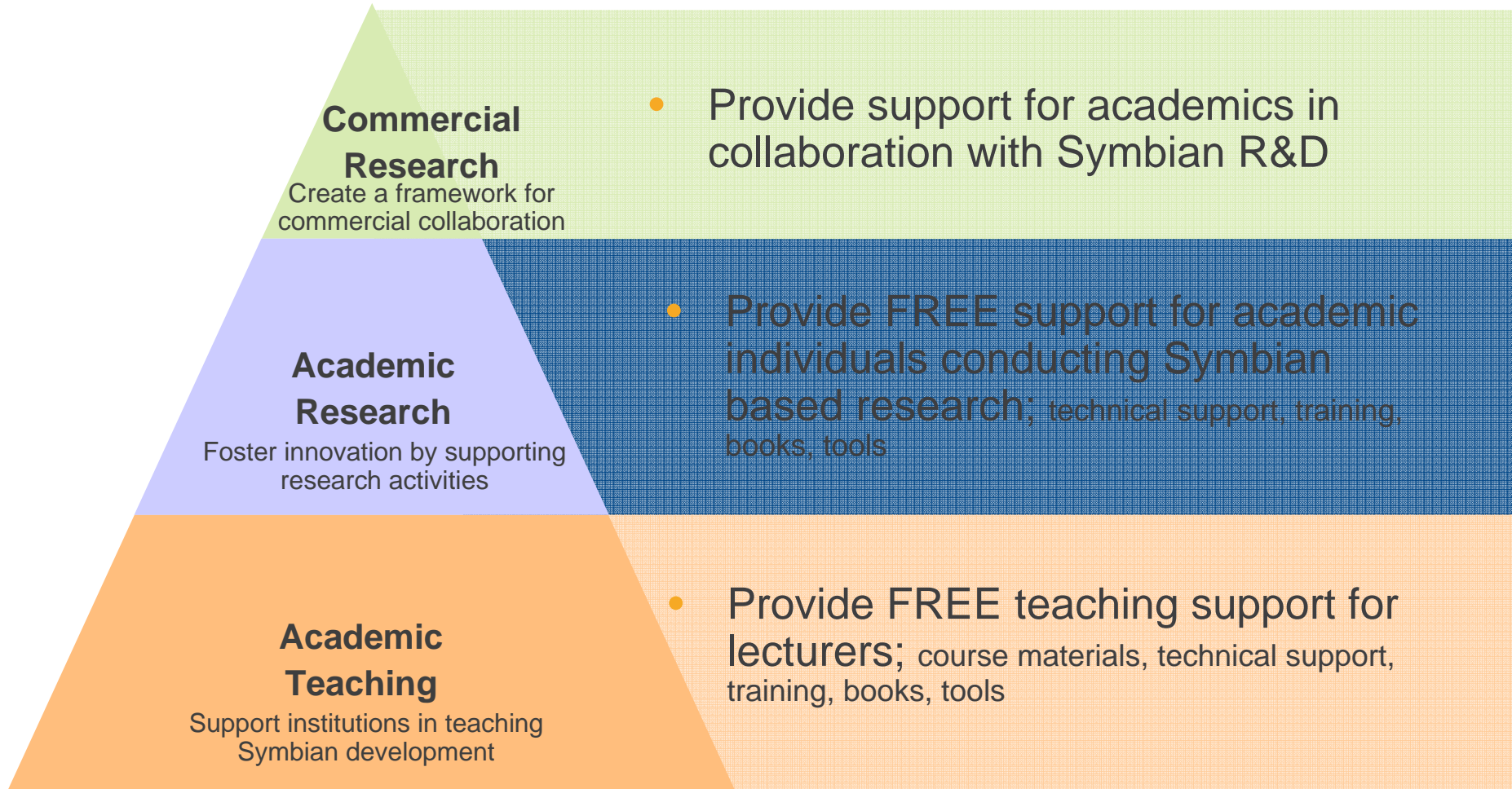
The evolution of the mobile OS



Symbian Research 'Themes'

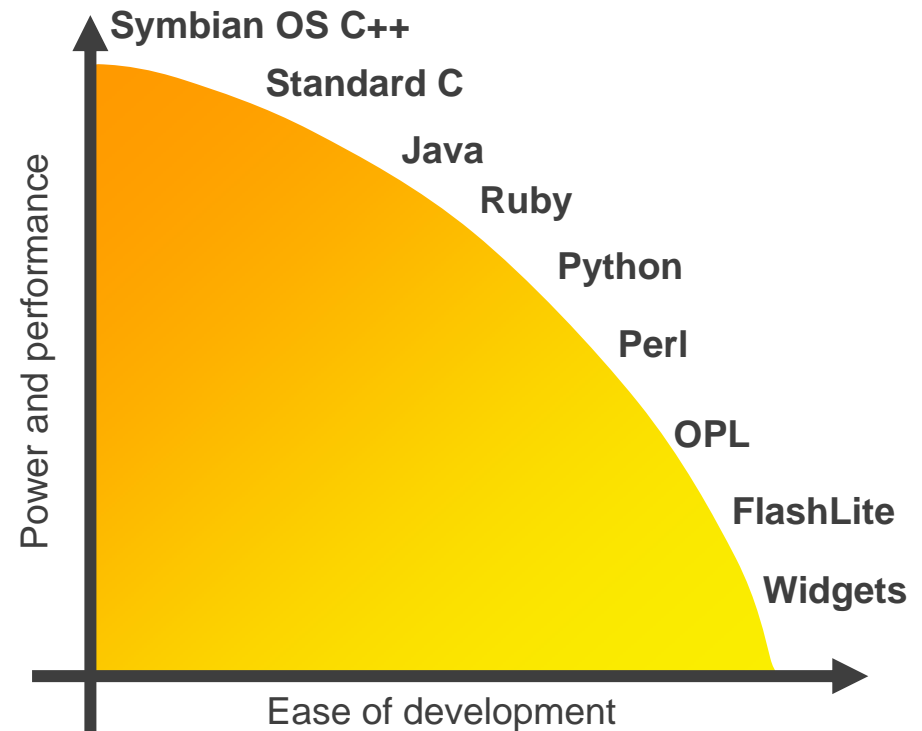
- Future technologies that could impact the underlying OS of a converged mobile computing device
 - ... OS kernel improvements (e.g.)
 - Memory allocation
 - Scheduling
 - Device driver model
 - IPC
 - ... resilience
 - ... security,
 - ... performance,
 - ... power management,
 - ... graphics/multimedia,
 - ... Internet technologies (inc. scripting),
 - ... Development tools
- New uses for mobile technology
 - ... Health, Home and Leisure, Environment, Cultural
- Making Symbian OS more accessible
 - ... To developers
 - ... To academia
 - ... To general users
- Identifying 'predictable surprises' and potentially disruptive technologies

Symbian Academy overview



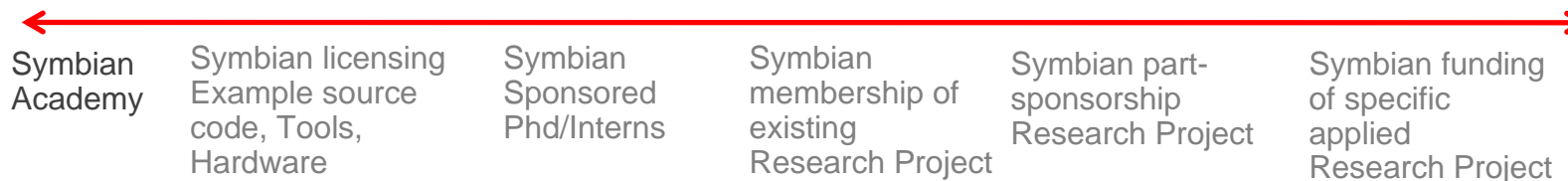
Symbian offers developers choice of programming models and environments

- Broad and deep application development
- Enable choice for different developer skills and solutions
- Improve productivity
- Native Symbian OS C++ is the most efficient, robust and powerful solution for mobile platforms



Symbian – Research Licence Project

- What is Research Licence Project
 - ... Concept – new for Symbian
 - ... Duration – recently started... we have a lot to learn
 - ... Progress – Feasibility stage
 - ... Plans – coming together
- Current relationship with Academia
 - ... Symbian Academy



Why engage with Academia?

- We don't have all the best brains
 - ... We need new ideas and experts
 - ... We want to get the best Engineers and Researchers working on Symbian OS
 - ... We want to grow University interest in Symbian specific technologies
- Increase awareness in Symbian OS
 - ... Recruitment and R&D mindshare
 - ... Research
 - ... Interest (versus MS, Linux and others)
- New technology and competitive knowledge acquisition

Proposed Engagement with Academia

- Collaboration can take many forms
 - ... Applied Research
 - . Symbian OS – core components
 - ... General Research
 - . On and around Symbian OS
- Your ideas?
 - ... We have limited resources..
 - ... So we need to make the right decisions early and prove the value of Research

Investigations to date

- What are our Customers and Partners doing re: Research
 - ... We should try to learn what we can from them
- Where are the best Universities for us to work with?
 - ... Where are the top Technology Universities in the world
 - ... Other Universities with similar technology interests
- What are the most appropriate Technologies/Areas that we should apply our Research resources on?
 - ... Limited Resources
- Commercial and IP (Intellectual property) – Best Practice in University/Industry collaborations

Challenges along the way

- Culture
 - ... Research concept is relatively new for Symbian
- Strategy
 - ... Still being formulated
 - ... But mindful of the wider Industry – and ever increasing entrants to the Market
 - ... Importance of engagement with Academia
- Value
 - ... We need to show the value of Research to the wider Organisation (but not always easy to measure)

Contact us

- Symbian – General Research Queries
... David.Roberts@Symbian.com
- Symbian Research Licence Project
... liz.laffan1@symbian.com
- Symbian Academy
... academy@symbian.com
... <http://developer.symbian.com/main/academy/>
- Graduate Recruitment
... graduates@symbian.com
... <http://www.symbian.com/about/careers/graduate%20program/>