

Standards and Mobile Applications, Services and Widgets

Arthur Barstow; Nokia
Mobile Internet World
13 November 2007



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Contents

- User Experiences
- Interoperability
- Relevant Work at the W3C



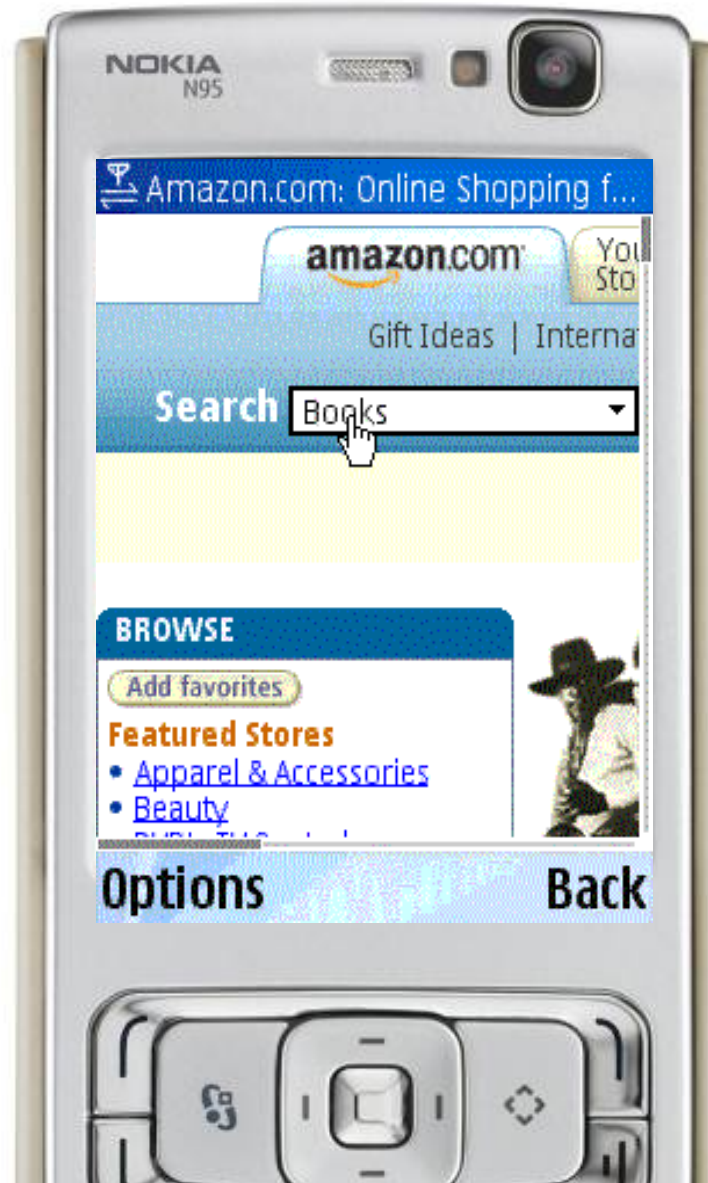
Our vision

A world where **everyone**
can be connected

In 2015, 5 billion people always connected

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Full Web browsing



Staying connected



Smart connectivity



FM Radio

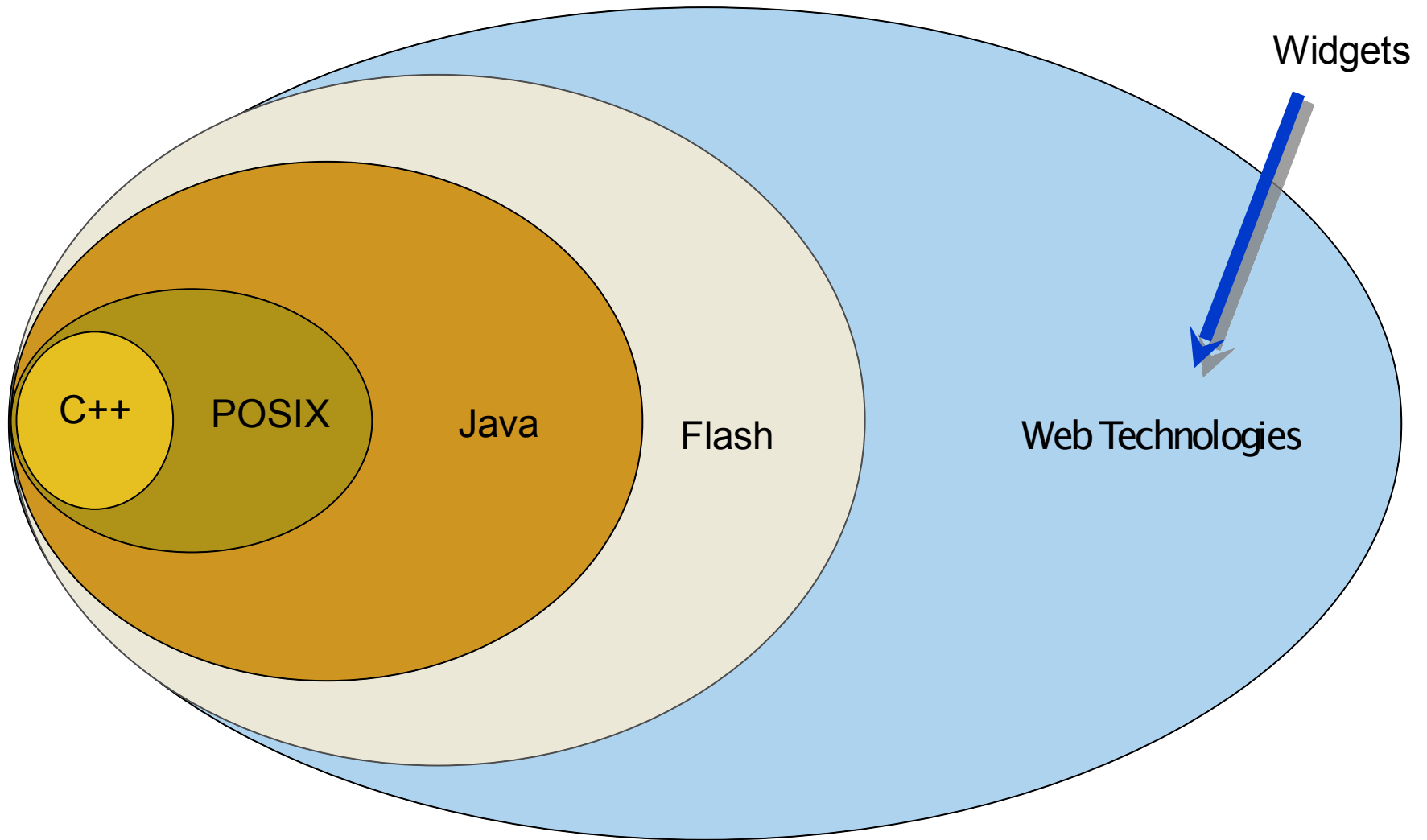
GPS



Widgets

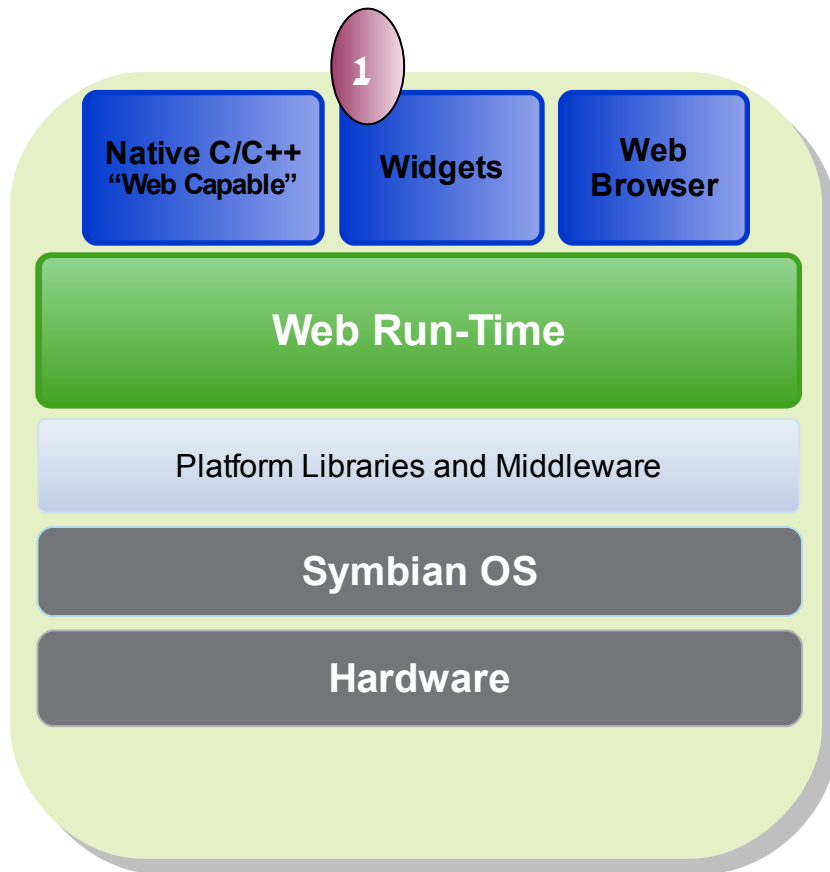


Application Environments



Relative number of app developers (illustrative only)

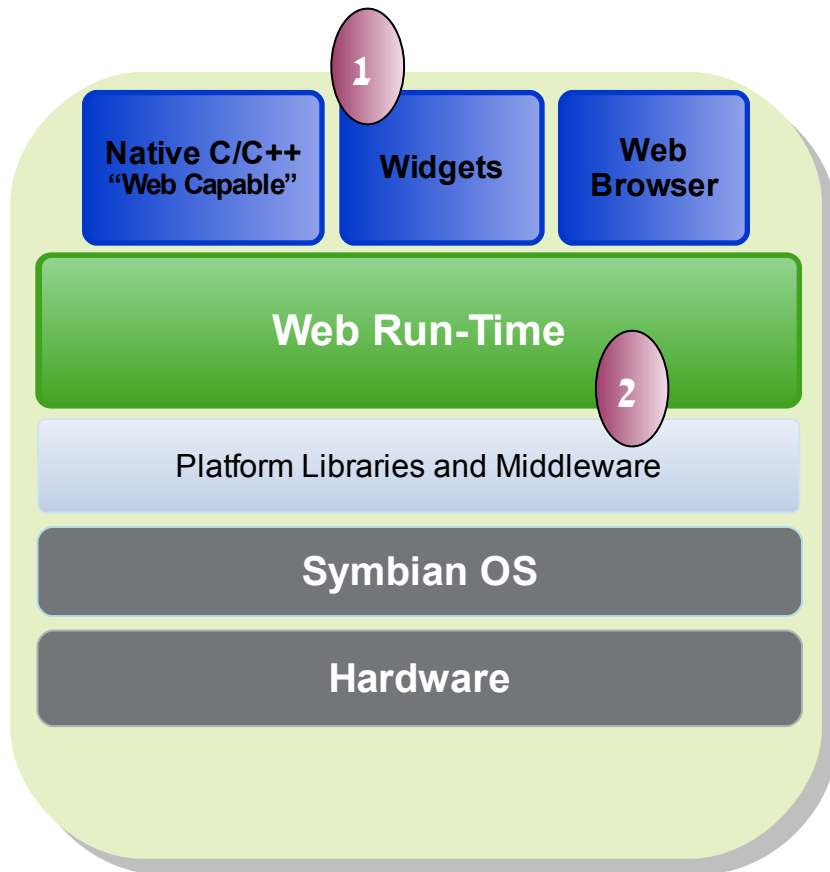
Widgets Phase I: Internet Services



Widgets connect to Internet services

- Designed to give users **quick, instant, easy access to essential & commonly used services & content**
- Leverages **Web 2.0 services & Web content**
- Access only to **system information services**, e.g. battery status, network signal strength, memory statistics.

Phase II: Access to platform services



Widgets & S60 core platform services

- Widgets combine Internet & **core platform services**, such as, *GPS, phonebook, calendar* etc.
- **Safe & secure access** to S60 core platform services requires trusted widgets
- Opens up numerous exciting possibilities for **mash-ups** & other innovative services

Search and find



 **YellowPages.stc.com.sa**

 **YellowPages.ca**

 Windows Live

 **YellowPages.com.eg**

 **yp.com.hk**

 **Baidu 百度**

YAHOO!

 **INFOMEDIA
YELLOW PAGES**

 **INFOMEDIA
YELLOW PAGES**

**DE
GULE
SIDER**

 **ENIRO**
Find it easy

DasÖrtliche.

 De Telefoongids

directories

 **Yandex**
www.yandex.ru

 **PAGINEGIALLE.it**

Atlas

SUCHENode

PaginasAmarillas.es

 **etisalat
Yellow Pages**

YellowPages.ae

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Web 2.0 applications



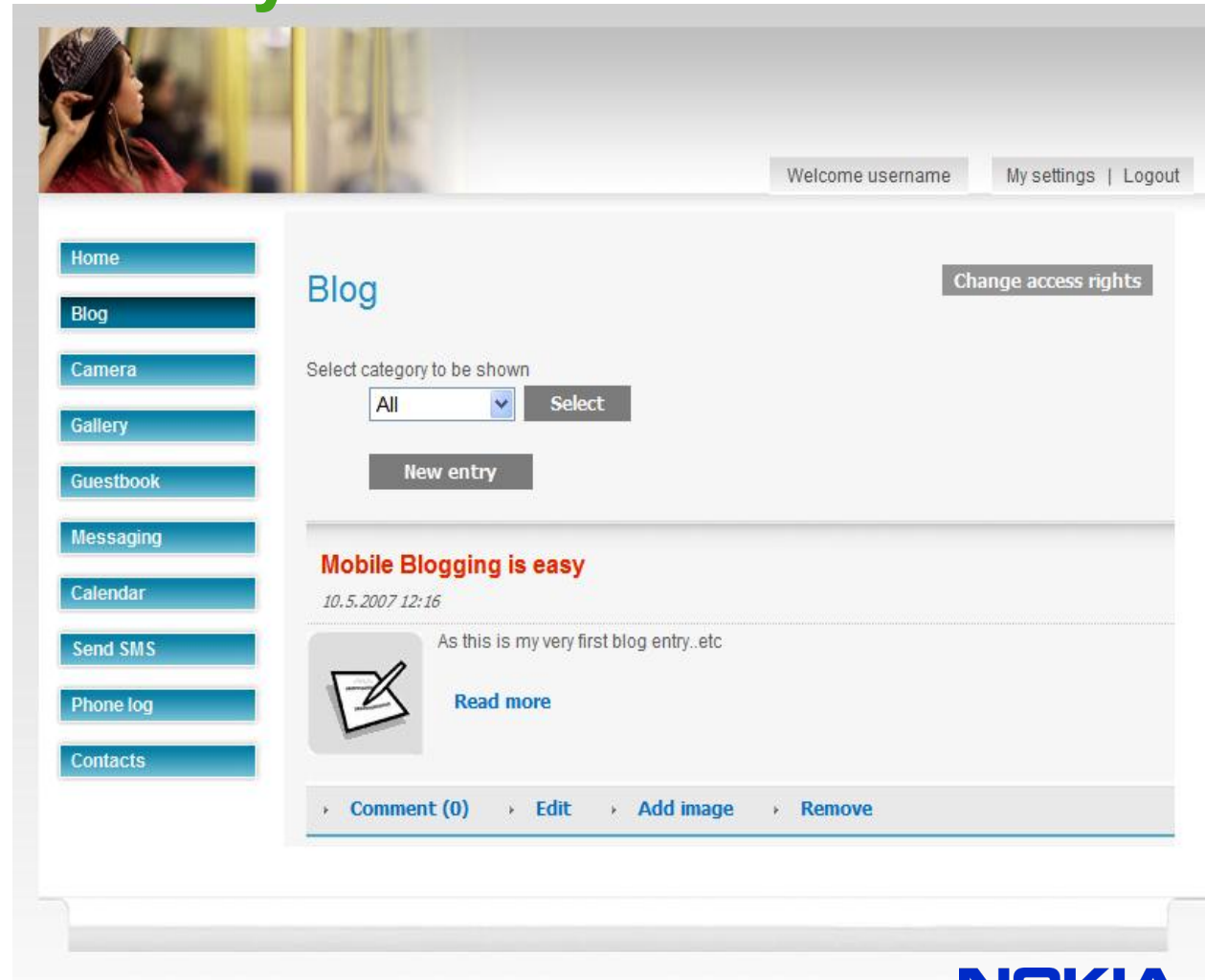
Web 2.0 with context



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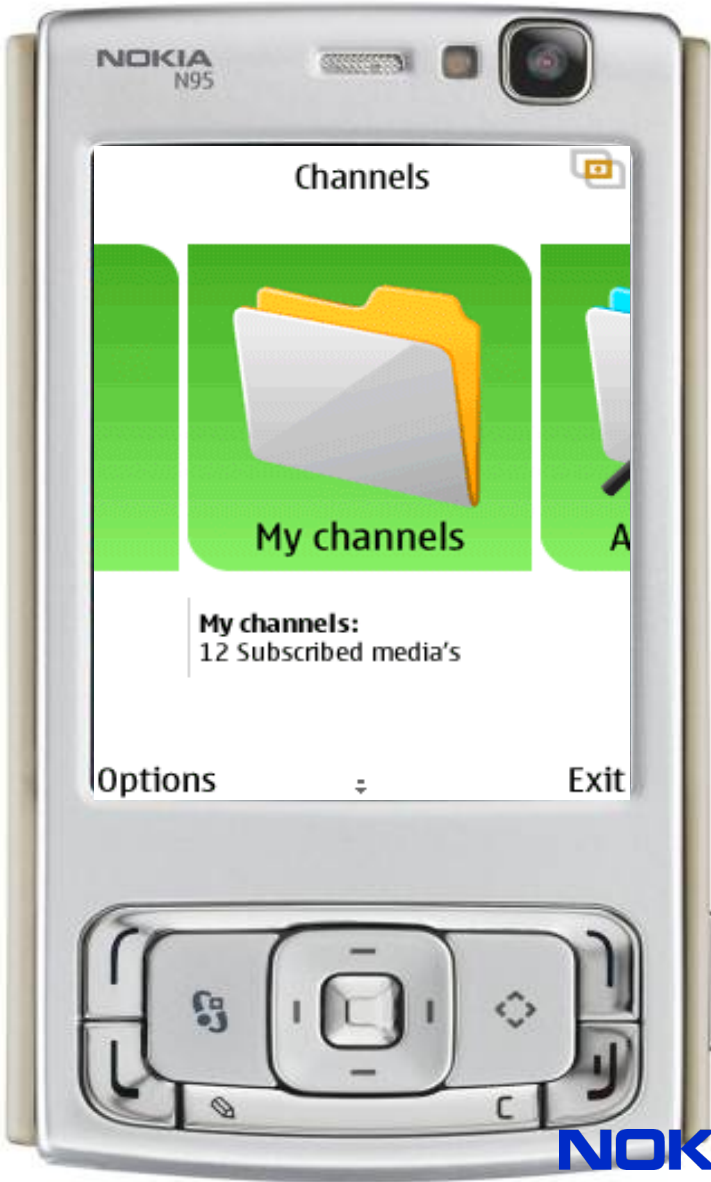
Mobile webserver

www.mymobilesite.net



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Media browsing



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Interoperability



Service Enablers

- Location Protocols
- Presence Protocols
- Billing and Charging Frameworks
- Messaging Protocols
 - Text Messaging
 - Multimedia Messaging (MMS)
- Instant Message (chat, IRC, ...)
- Data Synchronization Protocols
- Mobile Broadcast (TV)
- ...

Consortia Landscape

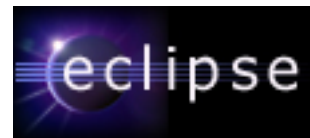


Interop & Certification



Open Source Software

maemo™



Relevant Work @ the W3C



HTML WG

- Creating *HTML5* - the next generation of HTML
 - Codifying what's been implemented
 - Adding some new tags, attributes, DOM APIs
- Addressing interoperability issues
 - Error handling
- Test suite

CSS WG

- CSS is *the Web's Style Language*
- Updates for CSS 2.1 spec
- Creating new specs and *modules*:
 - Grid Positioning
 - User Interface
 - Colors
 - Multi-column layout & Advance layout
 - Media Queries
 - ...

Web API WG

- Codifying existing implementations of Browsers' JavaScript APIs
- DOM spec maintenance and evolution
- Work in Progress:
 - *Ajax* -> XMLHttpRequest object
 - JavaScript objects -> Window
 - DOM Events
 - Selectors API
 - Progress Events API
 - Persistent/Offline Storage API
 - ...

Web Application Formats WG

- Widgets
 - Standardized packaging format (ZIP)
 - Metadata *manifest*
 - Standardized way to *Sign* a Widget
 - Localization model
 - ...
- Controlled way to poke holes in the browser's sandbox (aka *Same Origin Policy*)
 - Cross-site scripting

We Need You!

- Lots of interesting *Work In Progress*!
- Publications: w3.org/TR/
- Come Join Us!

Thank You!

