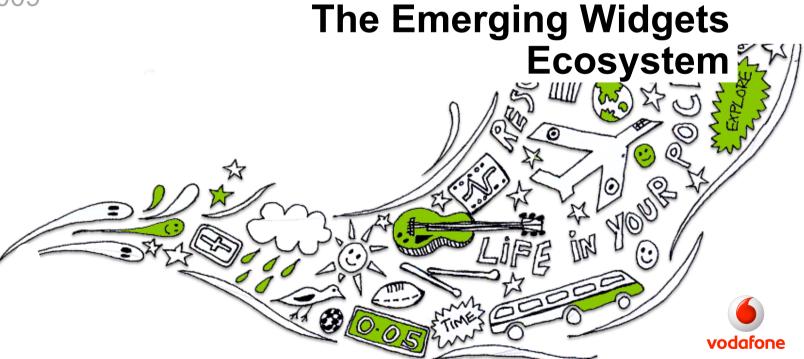
Daniel Appelquist 22 April 2009



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GROUP R&D

- 2. The mobile Web, past present and future
- 3. What's in a Widget?
- 4. Vodafone's Widgets Beta (and how to win £20,000)
- 5. Widgets and the Social Web
- 6. ...the future?



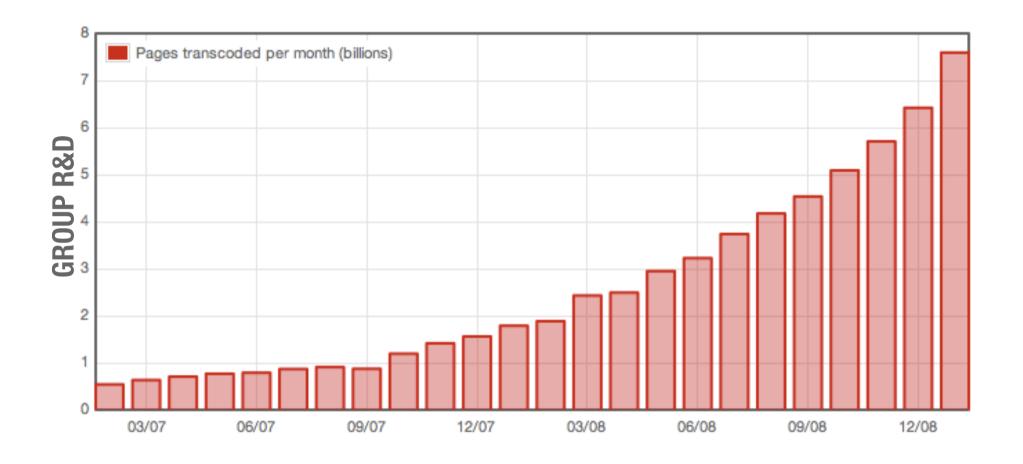
2

The mobile Web isn't what It used to be...





Opera's Mobile Web Usage Data (Jan 2009)





Top 11 Mobile 2.0 Trends

- Smart mobile browsers
- Mobile Web Standards
- Mobile Ajax & Widgets
- Mobile Search
- Mobile Ads
- Mobile Mashups & Open APIs

- Mobile RFID &
 2D Barcodes
- Location and Geotagging
- Mobile Social Networks
- Mobile User Generated Content
- Smart Web Devices

In collaboration with: 전종홍 (Jonathan Jeon) ETRI&W3C, South Korea



GROUP R&D

Mobile Web Applications

- The Web has grown from a page-based metaphor into a full-blown application platform
- Most things you used to need a special application for you can now do on the Web
- The Mobile Web is going the same way
- Advanced browser features enable interactivity and application-like behavior
- Mobile Web pages become compelling user experiences
- Guidelines for Mobile Web Applications developers in progress in W3C: http://tinyurl.com/cv9exv



Widgets

- Take Mobile Web Applications to the next level
- Build mobile applications using Web technologies familiar to millions of developers
- Package these Web applications up in a standard cross-platform way (W3C)
- Enable these applications with (secure) access to device capabilities through APIs
- Deploy into a Web Run-Time environment (analogous to a Web browser, but windowless and integrated into the device UI)
- Create a clear proposition for the developer and a route to market
- Cross-platform mini-applications, built on open Web standards that are easy to write and deploy and leverage a well-understood security model





Mobile Widgets are most evolved content format (Richness, Reach and Rapid/Simple Route to Market)

Key characteristics	WAP	JAVA/NATIVE APPS	BROWSER- BASED WIDGETS	ON-DEVICE WIDGETS
Can operate on/near idle screen				•
Functions even when device is offline				
Interacts with device features (camera, contacts, calendar)				
Can dynamically update itself via content pull/push				
Easy for developers to leverage existing website code				
Ease and speed of porting across mobiles	•			
Current availability on devices	•			



Widgets Extend the Web

- Widgets use existing Web technologies
 - HTML, JavaScript, CSS
- Packaging and configuration standards being developed in W3C
 - In development in Web Applications working group
- Complimentary to off-line capabilities of HTML5
- Widgets may be updated automatically
- Access to device capabilities will be standardized as well
 - W3C Geolocation API working group referenced by OMTP BONDI
 - OMTP BONDI interfaces



Widgets are at the epicenter of the Mobile <-> Web Convergence









The Twiggy Story

Twiggy – the Mobile Twitter Search Widget

- Built by Carsonified for Vodafone to help promote mobile widgets
- Built in 2 days
- Employed normal Web developer techniques
 - jQuery
- Resulting application was wigitizable and also worked as a WebApp
- Social search use case ideally suited for mobile widget
- Case in point that it's easy for Web developers to build Widgets





Vodafone Developer Engagement

Betavine Widget Zone



 Leverages existing 'neutral' R&D developer channel & support infrastructure

- December '08 launch, initially supporting Opera SDK
- February '09
 - Betavine developer competition £20k cash
- Ability to upload to 5 of the biggest Vodafone markets (ES, IT, UK, DE, ZA)
- Availability of our WDK (our extensions to the Opera SDK)
- Availability of a developer version of the Apps Manager, so developers can test on a real handset even without a Vodafone-specific SIM



£20,000 PRIZE

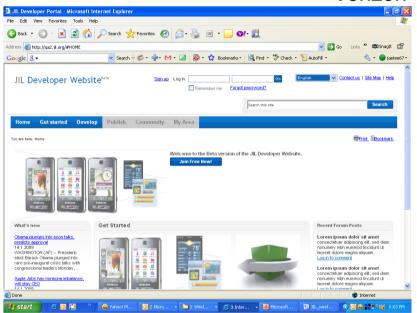
Entries still being accepted until the end of April

See http://betavine.net



Vodafone is Part of the JIL

Joint Innovation Lab (JIL) – alliance of Vodafone Group, SoftBank Mobile, China Mobile & Verizon Wireless



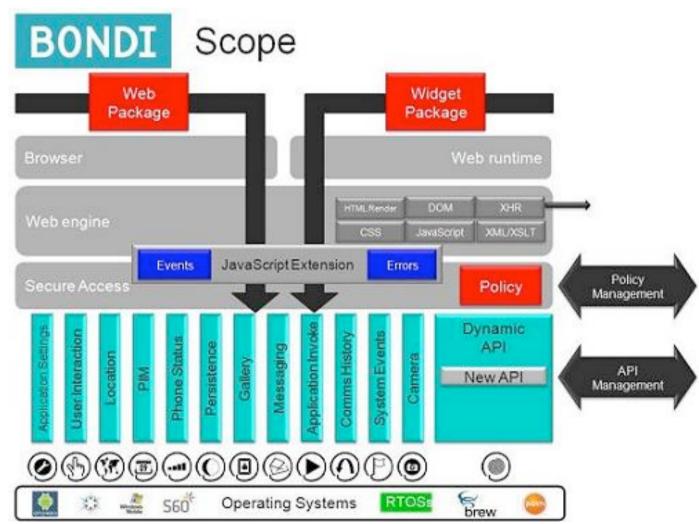
- Offers a single JIL SDK and distribution point for developers to submit widgets across multiple handset OS and markets.
- Potential audience of up to 1 billion combined customers
- Ability to reach out to the long tail of *local* developers to build *locally* relevant App catalogs

- 1st April, Verizon Wireless
 Joined JIL
- H2 '09, JIL to launch developer website incl. SDK



Widgets: The Next Chapter

- BONDI Secure access to device capabilities
 - Location
 - -Camera
 - Address book
 - Calendar
 - Media
 - -File system
 - -Sensors





Mobile Widgets Are Made for the Social Web

- Social applications for people on the go
- New mechanisms for communication
- Bringing your social network with you
- Proximity-based applications
- Location-aware social apps
- Mobile location-based gaming
- Ubiquitous access to information and communication





Resources

Betavine: http://betavine.net (and visit our stand)

£20,000 give-away

Widget blog: http://betavine.net/widgetblog

W3C Widget Day @ WWW2009: Tomorrow!

OMTP BONDI: http://www.omtp.org/bondi

Vodafone Widget Camp – Amsterdam, 2nd May: http://mobilewidgetcamp.nl

