

How to Rapidly Develop and Integrate Mobile Apps

Simon Peel, Business Leader Mobile Development Europe

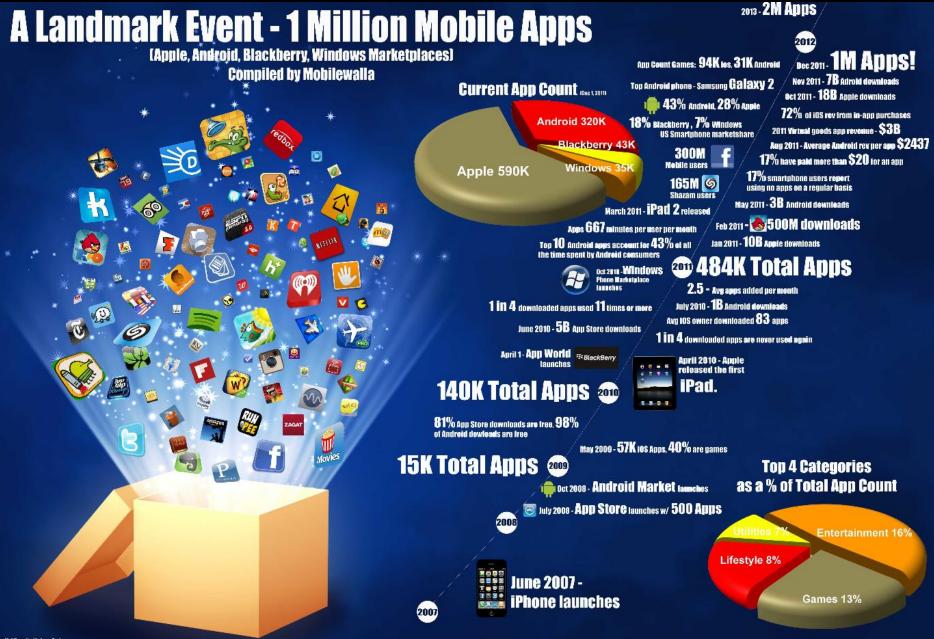




Agenda

Building Innovative Apps The Mobile App Development Lifecyle Customer Examples



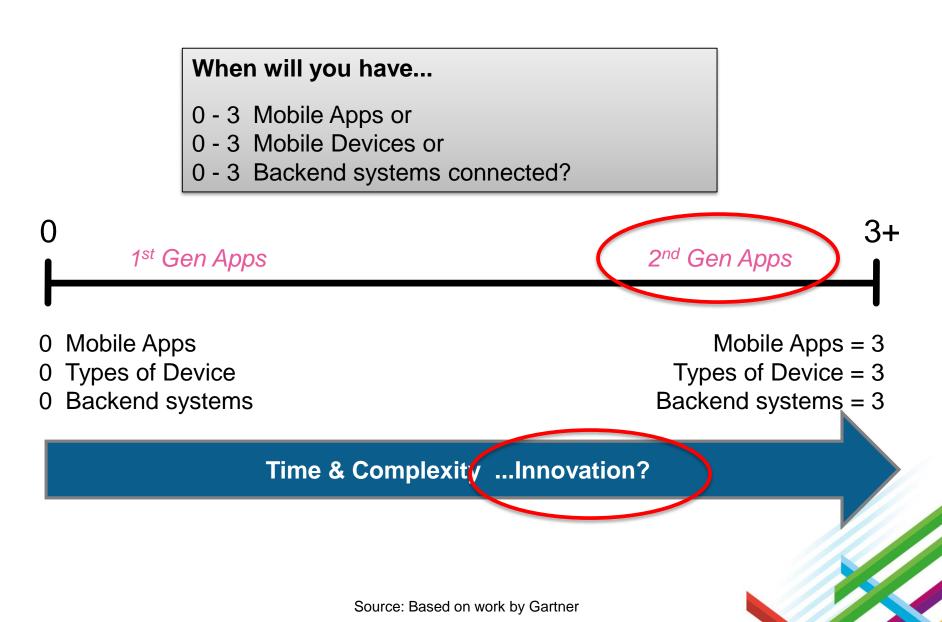


Sources: Nobiliewells, Vielsen, Geriner, Distinio, Piper Laffrar, Engalgier, Augle, Indreil, Facebook, Pew. Techerunch, Flarry, Research: 2Guldance, Comscore, Wireless Instituence, Demiscore, Fortuna

"Reaching the million app mark signifies that in an unprecedented amount of time a whole new technology sector has reached maturity, and capitalized on an immense consumer demand. History has never seen as great a democratization of creative development work."-Leonard Murphy, Mohle Marketing expert and CEO of BrandScan 360, LLC

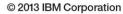
The Mobile Journey





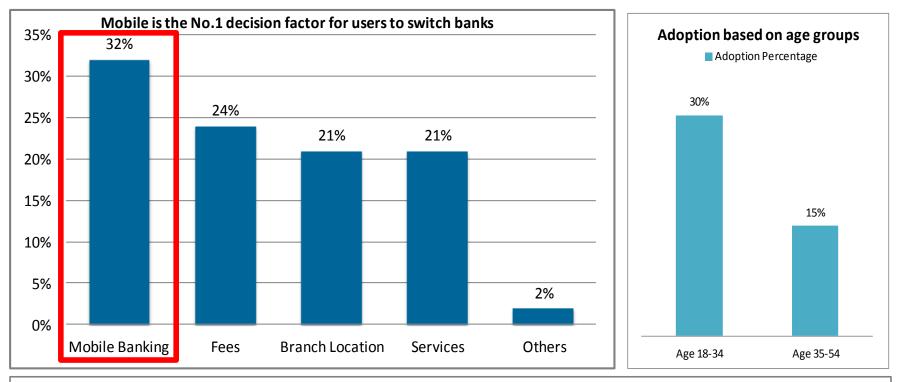


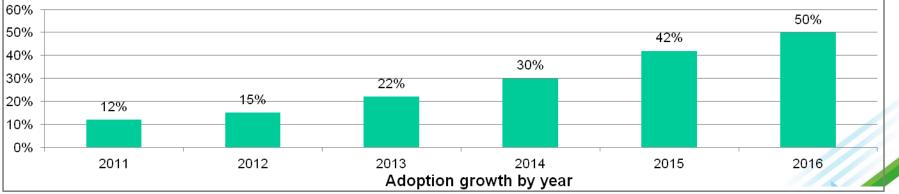
Mobile Banking "Innovation" Scenario



Business Drivers







Source: http://www.alixpartners.com/en/MediaCenter/PressReleaseArchive/tabid/821/articleType/ArticleView/articleId/203/Smartphones-Rapidly-Transforming-Mobile-Banking-From-New-Concept-to-Tablestakes-According-to-AlixPartners-Study.aspx,



Business Drivers



Share of Average Time Spent per Day with Select Media by US Adults vs. US Ad Spending Share % of total

τv 42.5% 42.29 Internet* 25.9% 21.9% Radio 14.6% 10.9% Mobile **Biggest gap** 0.9% Newspapers 4.0% 15.0% Magazines 2.8% 9.7% Time spent share Ad spending share Note: *time spent with the internet excludes internet access via mobile,

Note: *time spent with the internet excludes internet access via mobile, but online ad spending includes mobile internet ad spending; due to this, the total of the ad spending shares for all the media adds up to more than 100% Source: eMarketer,

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www.eMarketer.com

Source: The CMO Site, Getting the Most from Mobile Marketing

Requirements from the Business



Be more innovative than our competition Upsell existing customers Open up new revenue channels Decrease complaints over Fraud Protection procedures



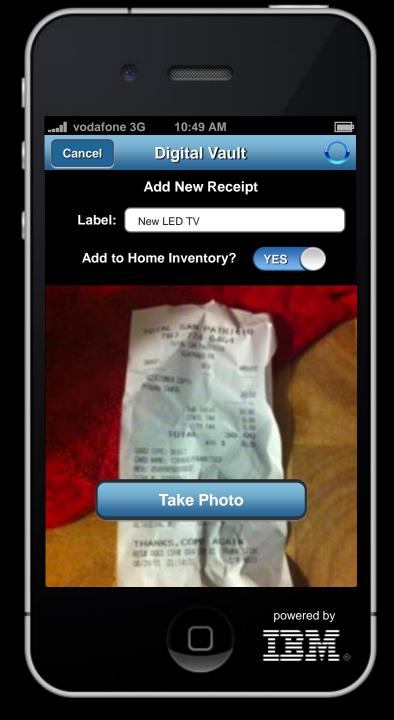


Meet John

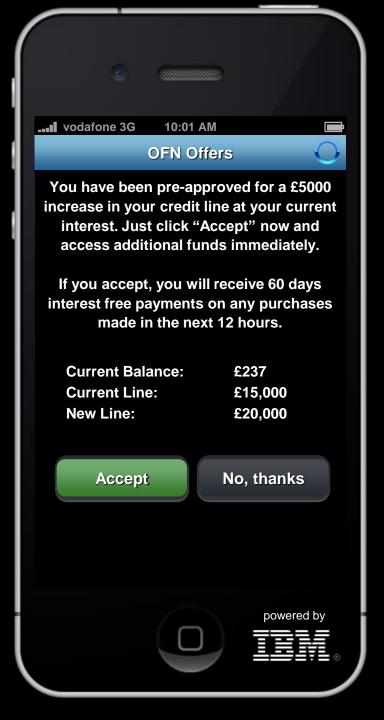


John buys a big screen TV









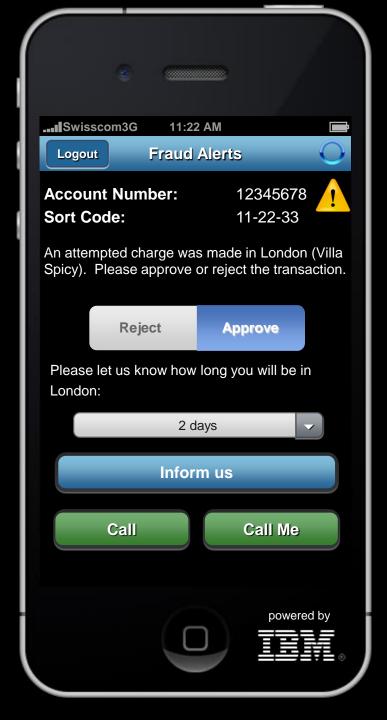












What's Been Holding Back App Innovation?



Mobile Apps are different.

- They run on unstable networks-interruption is the norm, not the exception
- They are context-aware sensor richness provides constant stream of context information
- Always on An opportunity to deliver greater value since always within arms' reach
- Smaller screens More challenging to make compelling and easy to use
- Immediacy users expect instant everything and have little patience

Management is different.

- AppStore Terms of Service present challenges for managing B2C apps
- Greater challenges of application governance, distribution, and version management
- Smaller screens pulling content from more sources: need to choreograph content from multiple repositories and applications, both on premises and in the cloud

Development is different.

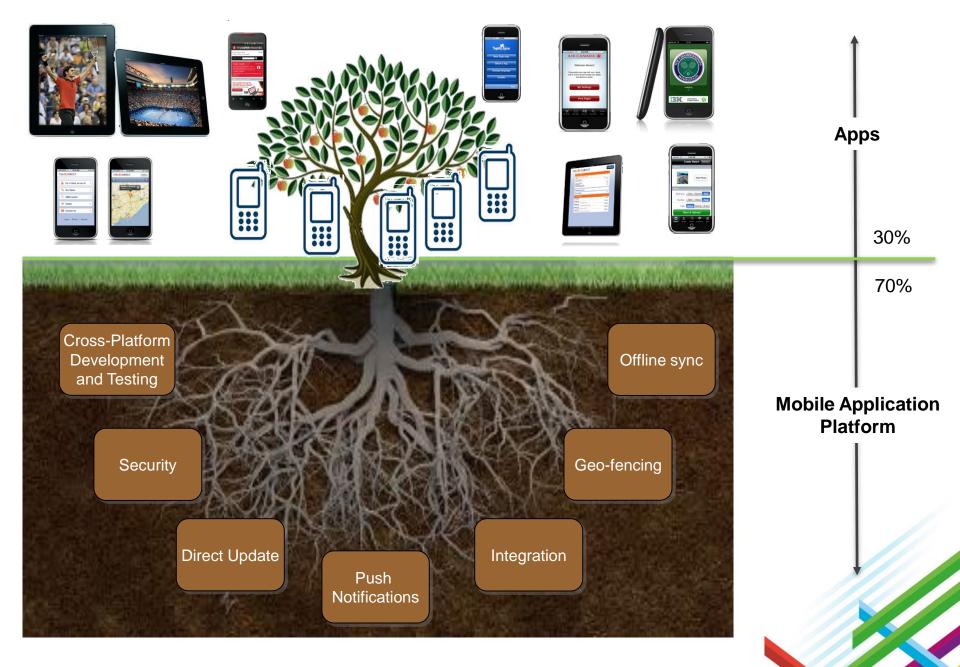
- More devices to support, each with its own set of capabilities, OS and UI behaviors
- More development approaches to choose from Web, HTML, Native or a mix
- More third-party and open-source tools, frameworks and libraries to choose from
- Extremely short development cycles

Security is different.

- Greater risks of exposing applications and data on small, light and always on portable devices
- Greater authentication challenges associated with content mashups
- AppStore Terms of Service can limit security options



Introducing Worklight



Multiple Mobile App Development Models



Browser Access

Written in HTML5 JavaScript and CSS3. Quick and cheap to develop, but less powerful than native.



Mobile Browser Web Code PUBLIC <html> <! - - created 2003-12-12 - -<head><title>XYZ</title </head> <bodv> </body> </html \bigcirc **Browser Access**

Hybrid Apps - Mixed

User augments web code with native language for unique needs and maximized user experience.



Native Apps

Platform-specific. **Requires unique** expertise, pricy and long to develop. Can deliver higher user experience.



Multi-platform development with a shared codebase



From the complexity of many...

- Multiple sets of tools & frameworks
- · Four codebases to develop and maintain



To the simplicity of one

- One development environment
- One codebase to develop and maintain



Results of Using a Mobile App Dev Platform



Rapid Beta App created

- Multiple Devices to be supported
- Multi-geo user base
- Extended to notebook users

Rapid Demo App Development

- Access to CRM, SAP ERP, Lotus Notes
- Showcases for business
- Training for developers

A Set of Standardized Components

- Document access and viewer
- Authentication
- Data access interface (adapter)
- Customized mobile design palette

Mobile ROI – 60% Overall Cost Savings
30% savings in app development

- 80% savings in interfacing with backend systems
- 90% savings in content maintenance
- 50% savings in technical maintenance



Product Catalog and Order Tablet App for Sales Personnel 1st app built by 1 Developer in 12 Weeks, including customized authentication, MDM integration, SAP connectivity, offline access, mobile-triggered server emailing, JQuery UI library, Cordova plug-in





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The IBM Mobile App Development Lifecycle





Design the user experience and develop apps using a cross-platform development approach





Instrument the App for analytics, security, and management control





Integrate your App with back-end data, systems and cloud services





Test earlier, more often, and for less with automated mobile app functional testing





Scan, evaluate and certify your App with a vulnerability analysis tool





Deploy using a combination of internal and external App stores





Manage authentication, enforced updates and versions





Analyze and improve the effectiveness of your App through usage data





Gartner has recognized IBM as a leader in the Magic Quadrant for Mobile Application Development Platforms

Magic Quadrant for Mobile Application Development Platforms Ian Finley, Van L. Baker, Ken Parmelee, David Mitchell Smith, Ray Valdes, Gordon Van Huizen Aug 7, 2013

"As unprecedented numbers of enterprises build mobile applications, the mobile application development platform market continues to grow and evolve rapidly."

This Magic Quadrant graphic was published by Gartner, Inc. as part of a larger research note and should be evaluated in the context of the entire report. The full report is available at http://ibm.co/13TU2Dm



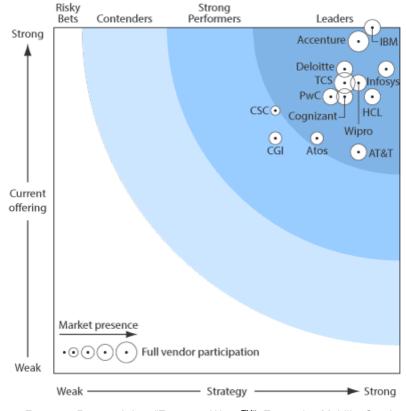
Figure 1. Magic Quadrant for Mobile Application Development Platforms

Source: Gartner (August 2013)

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IBM was positioned as a leader in the Forrester Wave[™]: Enterprise Mobility Services, Q1 2013

IBM received the highest score possible in "Current Offering"



Source: Forrester Research Inc. "Forrester Wave[™]": Enterprise Mobility Services, Q1 2013". Full report can be accessed at http://www.ibm.com

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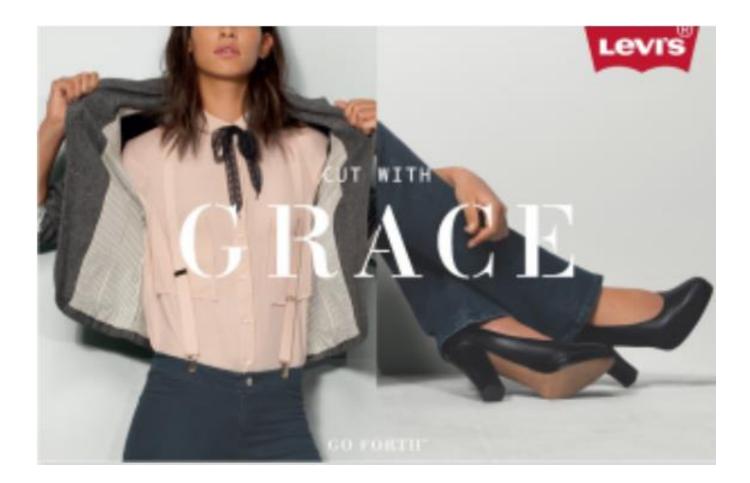
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Euroscript's "AdOn" App



Euroscript's "AdOn" App



Why Worklight

- Manageability being able to manage all your mobile applications from 1 single environment
- Maintenance and development are 10 100 times easier than traditional mobile app development
- Speed of development
- Multi platform support
- Professional environment for development, testing and usage of mobile apps
- Big plus: DTAP environment, structured deployments and automated testing for mobile apps



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Unipol / Unisalute in Italy provides differentiating mobile capabilities to end-users



...some private key features **Customer Area**

Unipol customer can consult at any time:

- Account statement with the state of processing of requests for reimbursement;
- A Calendar with upcoming appointments;
- Feedback section to tell us how you have been satisfied in latest situations.

...some public key features Online Prevention

Engaging new customers with useful health tests:

- Visual test
- Audiometric test
- Quality of sleep
- Dental prevention

ClickSoftware, ClickAppStore





An online bank has shipped industryleading mobile capabilities and has many more on the way



"We utilize a hybrid/HTML5 approach to achieve our goals with Worklight using web technologies (HTML, Java Scripting, CSS) everywhere we can, and native code where we need to."



Challenges

Company estimated that up to 40 percent of its future business would come from providing mobile accessibility to its products and services. They sought a solution that would provide the scalability needed to support high volumes of data, significant numbers of users and a sizable development team

Solution

Implemented IBM Worklight software to support its mobile-application-development project. The Worklight software provides the scalability the client needs to address the predicted increase in data and user volumes anticipated once the project is completed.

Benefits

- Able to develop mobile applications quickly and efficiently, supporting future business growth at a lower cost than its previous mobile platform provider could offer.
- Gained scalability to support higher data and user volumes once the mobile apps were deployed.



Mobile Innovation Workshop

One day interactive workshop with an IBM Mobile expert to help enterprises plan and develop a customized roadmap for success

Workshop



For Line of Business and IT leaders seeking expertise and experience in developing, enhancing, and/or executing their mobile enterprise strategy.

Client Value



- Industry expertise with top use cases and successes
- Capability assessment including identification of opportunities and gaps in mobile strategy
- A detailed client report and next steps

Highlights



- Interactive discussion to understand client business drivers, pains and requirements
- Overview of IBM MobileFirst Strategy, technology & POV's
- Industry trends & imperatives
- Structured working session to outline next steps

To schedule a workshop, email: ibmmobile@us.ibm.com



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