BusinessConnect and SolutionsConnect

It's time to make bold moves.

DELIVERING CONFIDENCE TO SEIZE THE MOBILE OPPORTUNITY

Richard Paul Mobile Services Executive



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Agenda

- The mobile imperative
- Industry innovations 'Made with Mobile'
- Enterprise Considerations for mobile innovation



THE MOBILE IMPERATIVE



40% OF PEOPLE USE SMART DEVICES

to log onto the web before getting out of bed in the morning







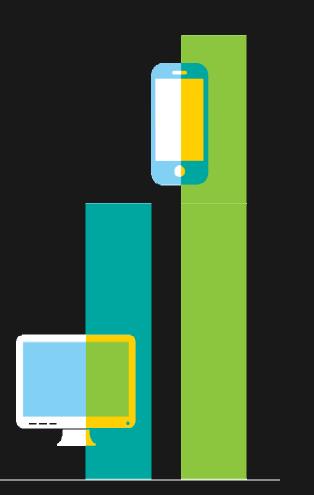
The average mobile phone user checks their phone

150x PER DAY

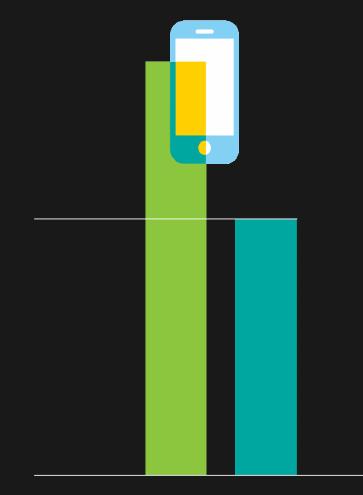


76% of EXECUTIVES expect mobile to surpass desktop for key work activities

within 3 years







BY 2015 2/3 OF THE WORKFORCE will own a smartphone

40% OF THE WORKFORCE will be mobile



85% of Adults

who have completed a mobile transaction

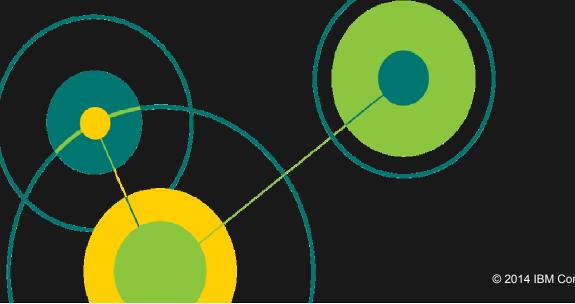
IN THE PAST YEAR

expect the experience to be better on mobile than on a laptop or desktop computer





Global M2M connections will increase from 2 billion in 2011 to 18 BILLON AT THE END OF 2022





CONTINUOUS TRANSACTION **OPPORTUNITIES** are defining the new mobile era 6061 0204 6295 0204 © 2014 IBM Corporation | #IBMMobile



\$4.4
BILLION

Projected revenue from new products and services resulting from location-based mobile data





The Next Generation of Enterprise Mobility



The convergence of a number of fast growing technologies, including mobile, present transformational opportunities for enterprises

More Innovation: Develop new mobile enabled business models

More Experience: Create more systems of engagement

More Productivity: Increase employee responsiveness and decision-making speed

More Responsive: Improve access and service levels

More Revenue: Increase revenue through sales engagements

More Functionality: Extend existing applications to mobile workers and customers

More Cost Savings:

Reduce operating costs (e.g., mobile check deposit) as well as personnel costs (e.g, utilizing personal-owned instead of corporateissued devices)



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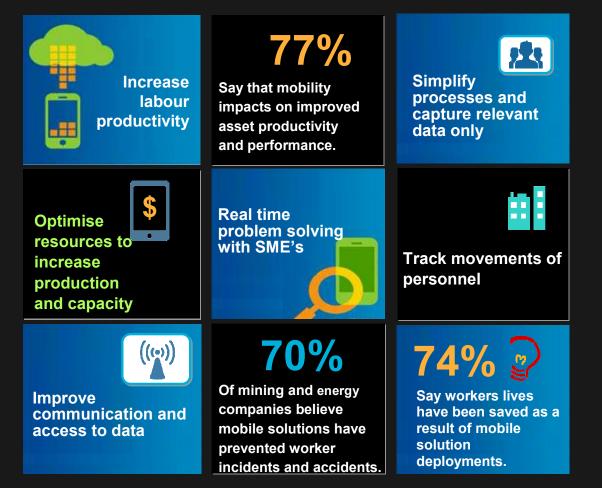


Industry innovations driven by mobile

- Energy and Mining
- Retail
- Banking
- Healthcare
- Government



Mobile solutions support the natural resources business model







Transform the Value Chain

NATIONAL GRID, **nationalgrid** International electricity and gas improved quality by driving efficiency

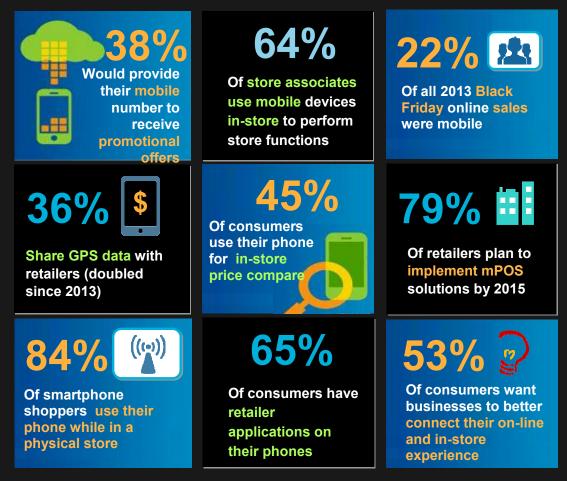
- Achieved 20% improvement in productivity and hit all key safety requirements
- Increased points of data capture and improve data accuracy and quality for better work management
- Increased travel time accuracy from 60% to 99% on every job



75% OF MOBILE SHOPPERS take action after receiving a location-based message



Mobile retail services are now a must-have service



Source: Mobile Industry Statistics, 2013, Mobile Commerce and Engagement Stats



Mobile Retail Innovation

Innovation in mobile retail continues to evolve customer engagement, processes, and new products and services

Broad categories of next-generation mobile use case enablement are emerging in retail

Customer Engagement and Experience

Personalized, contextual enhanced experience for customer
Cross-sales of related products, services or partners
Loyalty wallet, group shopping and buying

Workforce Empowerment

Associate productivity mobile tools, mobile optimized supply chains
Social showrooming and listening
Advisor rating & real-time feedback for training improvements



Process Innovation

- Mobile business processes and inventory handling
- In-store navigation, mobile checkout process changes
- Mobile friendly purchase / return / follow-up interactions



Analytics

Digital customer profile data matched with physical profile data for a focused customer picture
Real time, comprehensive operational data







Deliver Contextually Relevant Experience

Large retailer delivers personalized and contextually relevant real-time shopping experiences based on known shopping patterns



I want a retailer

That helps me find what I want And gives me **customized offers** Before, not after, **I need them** In order to maximize my shopping experience







The number of mobile payment users worldwide reached

245.2 MILLION

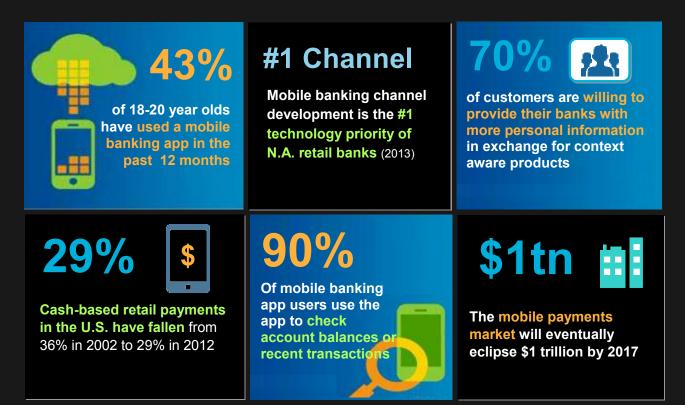
in 2013, up from 200.8 MILLION in 2012



Mobile retail banking services are a must-have service

Mobile banking is the most important deciding factor when switching banks (32%)

More important than fees (24%) or branch location (21%) or services (21%)... a survey of mobile banking customers in the U.S. ¹





Retail banks are facing new competitive threats

Mobile Money Ecosystem

Agile 'non-banks' are entering the mobile money ecosystem with leaner customer-centric offerings



- The traditional relationship between the bank and the customer is being threatened across various fronts. As a result banks are losing the opportunity to cross-sell or up-sell products and services
- There is the risk of supplanting banks by building relationships with customers in one area, like payments, and expanding into the traditional retail banking space (e.g., savings and deposits)

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Mobile Banking Innovation

Innovation in mobile retail banking continues to evolve customer engagement, processes, and new products and services

Mobile Marketing & Analytics (Visa Offers)

The program enables retailers and financial institutions of all sizes to deliver customized and differentiated offers to Visa cardholders at the point-of-sale. Visa analyzes cardholders' purchases and offer customized deals and discounts that match cardholders' spending habits

Social Banking (ING Direct)

Integrates mobile banking with Facebook for added convenience. Users can receive account notifications within Facebook for a more unified experience

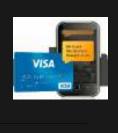
Mobile Payments (P2B - NFC)

La Caixa enables contactless payment through TAP Visa stickers attached to the back of a mobile phone and carry an EMV chip with encrypted card data

Customers complete transactions or withdrawal through frictionless interactions with in-store terminal

Mobile Wallet (Serve)

Amex's mobile wallet offering provides the benefits of a debit card to which you can transfer funds from any bank or through P2P. Customers can send money via email, Facebook, mobile app or SMS, create sub-accounts for families









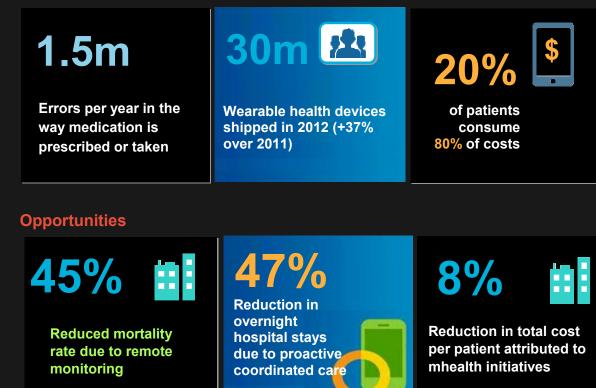




mHealth initiatives are driving better outcomes across all stakeholders

To change behavior. mobile health applications ...need to address disconnects between longterm intentions and moment-to-moment choices. The most effective tools will creatively instantiate well-evidenced behavior-change principles with data mining, social networking, location awareness and other capabilities of mobile technologies." Margaret Morris PhD, Sr Researcher, Intel

Environment



Several mHealth initiatives and technologies dominate the discussion

While wearables are gaining significant attention, there are a number of other technologies and engagement models that are gaining traction.

Remote Monitoring (wearables)

•AIQ Clothing – wearable electrodes paired with Bluetooth connectivity for continuous remote monitoring of health conditions

•Preventice – body sensor that allows physicians to monitor a patient's physiological data

•Fitbit Force – wireless activity and sleep wristband

Mobile Medication Management / Adherence

•ARemind – service platform that sends patient scheduled medication reminders as dynamic, personalized SMS

•MyMedSchedule – secure medication schedule and reminder application •RxmindMe – reminder application for medication, vitamins, and supplements

Remote Diagnosis (Telemedicine)

- MobileCT Viewer medical imaging application enabling anytime, anywhere viewing of patient cases, optimizing the medical imaging workflow
- **TeleSteth** Platform to allow healthcare professionals to share heart, lung, and airway sounds with colleagues using the internet or a private network
- Airstrip Collection of mobile services allowing physicians to monitor patient status information away from medical centers in real time

Social Health

•Alliance Health Networks – condition-specific social networks serving over 1 million members across more than 50 health conditions

•Ozmosis – care collaboration platform that enables hospital systems and life science firms to drive greater collaboration within care teams

• **MyHealthTeams** – mobile-optimized condition-specific community portals to connect individuals with local businesses and support networks.











Mobile adoption is changing the business of government

Reality



Of US Federal workers say mobile devices increase productivity



Reaction



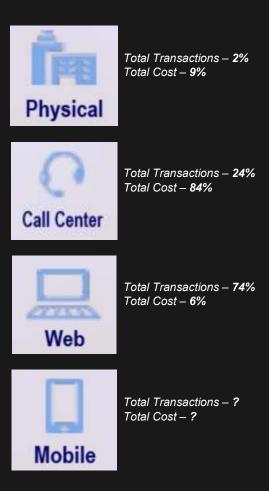
Of new government applications will be mobile

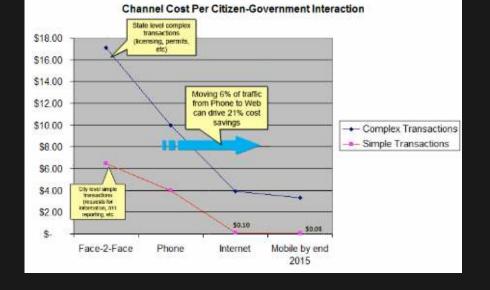


Of citizens accessing government websites are logging in from phones or tablets



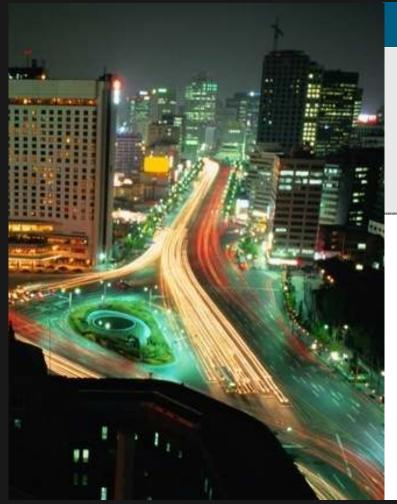
The economic value of mGovernment





Source: City of Hamilton, Ontario





Leverage Industry Transformations

Region of Eindhoven captures data from cars and road sensors to notify commuters via smart phone app



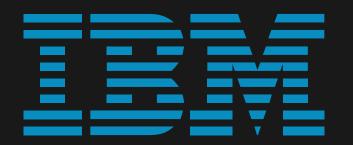
I want to tag things through auto ID technologies like RFID

Sense things through sensors and actuators

Shrink things through developments in miniaturization and nanotechnology

Create Thinking Things by imbedding processing power

and **Power things** through advances in energy efficiency, storage and generation



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TOP 5 CONNECTED APPS PROJECTED BY 2020

 \rightarrow Car

- → Clinical monitoring
- \rightarrow Security
- \rightarrow Assisted living
- → Pay as you drive insurance





Enterprise considerations for mobile innovation

- BYOD
- Security
- User Adoption
- Big Data
- Business Value



81%

use at least one personally owned electronic device for business





IBV Study found that SECURITY

WAS THE #2 CONCERN

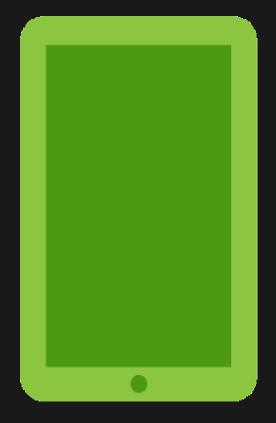
related to implementing mobile within the enterprise





BY experts predict that 2018 70%

of the workforce will use a tablet or tablet hybrid







80%

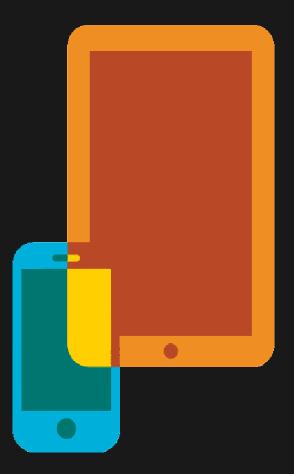
OF MOBILE APPS

are used once, then deleted



90% OF USERS USE MULTIPLE SCREENS

as channels come together to create integrated experiences





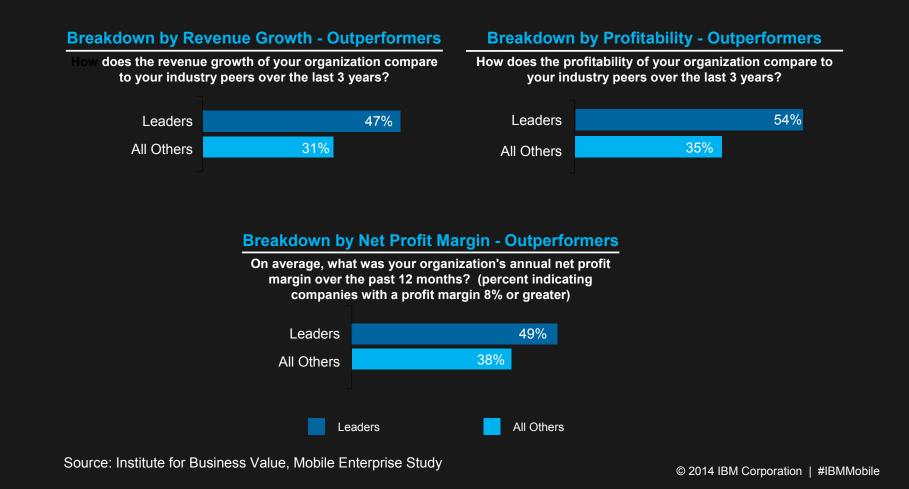


5 PETABYTES OF DATA

Are generated every day by mobile phone subscribers around the world



Furthermore, Mobile strategy leaders are much more likely to deliver superior financial results







73%

OF MOBILE LEADERS

had measurable ROI from mobile initiatives



IBM has helped transform

NEARLY 4,000 COMPANIES

with mobile

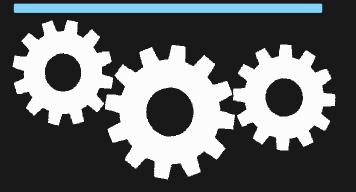






IBM was named A LEADER

in Mobile Application Development Platforms by



Gartner



IBM was cited AS A LEADER

in app design and managed services by









200+ IBM SOFTWARE APPS

are available today in App Stores, with almost 1,000,000 downloads





IBM's Industry-leading MobileFirst Portfolio



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THANK YOU

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