



Return on mobile

Capturing the value beneath the surface

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Tapping into mobile's hidden value

Mobile has become pervasive in society, accounting for an ever-increasing number of both personal and commercial interactions. Yet, even for its meteoric growth – there are now more mobile devices in the world than people – the vast potential of mobile is mostly untapped. While the benefits of mobile are indisputable, organisations still struggle with capturing its full value. Also even the most successful endeavours fall short of established goals more than half the time. However, by strategically aligning initiatives, securing C-suite support, managing certain components of the mobile portfolio internally and striking a balance between commercial-off-the-shelf (COTS) and custom applications, organisations can learn to tap into the vast, unrealised value of mobile.

Executive summary

The return on investment (ROI) for mobile currently accounts for only a fraction of what is possible. Like an iceberg – the small, visible tip hiding a veritable mountain of ice below the waterline – mobile has as its potential untold millions of dollars of untapped value. Today, some progressive mobile organisations are beginning to recognise the opportunities available and are moving aggressively to launch new platforms, products and services to take advantage. However, even the most insightful companies often develop and release mobile offerings on an ad-hoc basis, instead of as part of highly co-ordinated strategic initiatives designed to foster consistent, long-term customer value and business growth.

This executive report, based on surveys of more than 1,000 Global C-suite and mobile executives from 18 industries, will explore the vast opportunities hidden from view – the mountain of the iceberg beneath the surface. Further, we will show how different groups of organisations – Growers, Opportunists and Experimenters – approach ROI. Finally, we will use the best practices of the most successful organisations in our study, as well as insights gained from analysis of responses to questions in our interviews, to provide a path forward for those organisations wishing to explore new opportunities for greater ROI on mobile.

62% of global executives report their 'most successful' mobile initiatives achieved paybacks in 12 months or less

72% of global executives plan at least five enterprise mobile initiatives over the next year

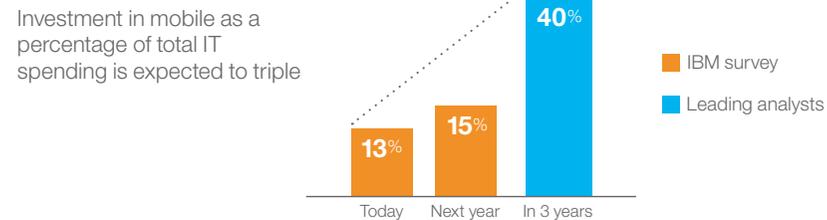
21% of global executives expect revenue to increase at least 10 percent as a result of their organisations' enterprise mobile initiatives

Mobile is pervasive and still growing

More people today have access to mobile devices than banking services.¹ In fact, the number of mobile devices (7.9 billion) exceeds the world's population (7.35 billion.)² Mobile, for most of the populace, has become essential to everyday life. And it has become indispensable in the way we do business. For example, more than 27 percent of global online transactions are conducted through mobile devices.³ By 2017, it is estimated that 30 percent of all travel sales in the United States will be generated through mobile devices.⁴ By 2021, the compound annual growth rate (CAGR) for total mobile data traffic is expected to increase to 45 percent.⁵

In response to this tremendous growth, our study revealed that organisations are planning to triple their mobile investments, going from 13 percent of IT spend to 40 percent over the next three years (see Figure 1).

Figure 1
Organisations plan to triple their mobile investments in the next three years



Executives surveyed indicated that they currently dedicate at least 13 percent of their total technology spend to mobile initiatives and plan to increase that allocation to 15 percent in 2017. In addition to spend, they also reported they plan to grow the number of initiatives undertaken. The big spenders, which represent one-third of survey respondents, plan to spend at least USD15 million on mobile initiatives next year. Also, 22 percent of companies

plan to undertake ten or more mobile initiatives by 2017, while another half is planning between five and nine projects. Totalled, approximately 72 percent of the executives we interviewed plan a minimum of five initiatives over the next 12 months.

Beyond just planning for a greater number of mobile initiatives and investing more money in them, these executives said they look for payback periods of less than a year. In fact, 62 percent of executives indicated their most successful projects pay for themselves in fewer than 12 months, considerably faster than the two-to-three-year payback for typical technology projects.

As a result of increased investment and taking on more projects, executives expect their revenue to increase by an average of about seven percent over the 12 months, with more than one-fifth of the group looking for revenue increases of at least 10 percent. In addition to expected revenue gains, executives interviewed anticipate a six percent cost reduction over the next year. Further, organisations plan to increase employee effectiveness to allow them to exceed customer expectations. Also they plan to grow revenue by identifying new sources and expanding existing ones, as well as create new business opportunities by supporting new business models and expanding into other industries and product/service areas.

With such ambitious plans, investment commitments and ROI expectations, it becomes crucial to understand the encumbrances that might stand in the way of successful implementation. Almost half of the executives we surveyed admitted their companies approach mobile initiatives in an ad-hoc manner. Without strategic alignment with company value propositions and corporate objectives, many of these offerings become hit/miss endeavours and often fail to achieve the desired value. How, then, can organisations begin to explore differing product objectives, more integrated approaches and a focus on external users (instead of internal) to impact the achievement of desired outcomes?

Challenges impede achieving full potential

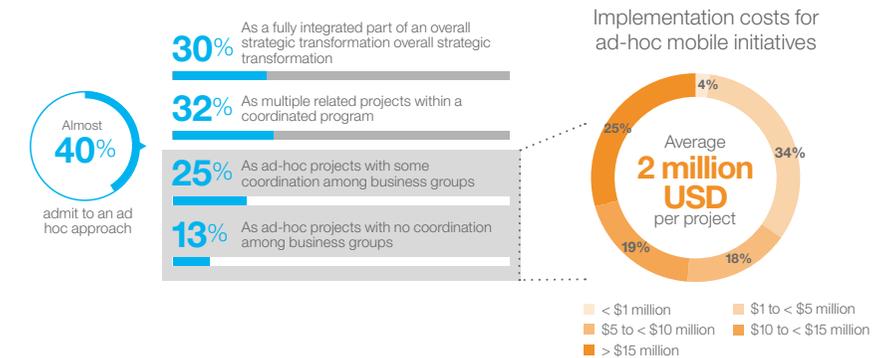
Overall, executives in our study say they believe their investments in mobile yield results. Yet, as our iceberg analogy suggests, they struggle to capture the full value potentially available to them. A variety of challenges present obstacles in capturing that higher value. Our surveyed executives identified four common impediments to realising increased ROI:

1. Strategic alignment with business goals is not prevalent
2. Millions of dollars are spent ad hoc for mobile initiatives
3. Multiple targeted goals prevent even the most successful mobile initiatives from achieving all of their objectives
4. Optimal balance is elusive between COTS and custom-developed mobile solutions

Our research revealed that 60 percent of organisations do not look for strategic alignment when prioritising mobile initiatives. Perhaps even more surprising is how much money is spent on ad-hoc mobile initiatives. As Figure 2 shows, almost 40 percent of surveyed executives admit to having an ad-hoc approach, with only 'some' co-ordination between the mobile portfolio and the organisation's various lines of business. With almost two-thirds of those surveyed each spending at least USD5 million on mobile initiatives over the next 12 months, the investment is huge, especially considering the ROI is less than optimal.

Figure 2

Study participants spend millions ad hoc on mobile initiatives

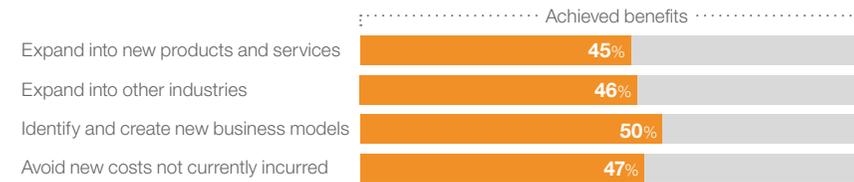


That investment is subject to even more risk when growth is considered. The pipeline of mobile activity is expected to quadruple by 2018, with little-to-no governance over it.⁶ In addition to putting their financial investments at risk, our study revealed organisations that perform ad-hoc mobile solution launches will find it difficult to scale up their capabilities enough to actually execute on the average of five planned projects per year – let alone reduce the pre-existing backlog.

As a result of these challenges, our surveyed executives admitted to falling short of their objectives more than half the time – even in their most successful projects (see Figure 3). If the most successful mobile initiatives can't achieve their objectives, imagine the outcomes of the less successful projects.

Figure 3

With multiple goals targeted, even the 'most successful' mobile initiatives fail to achieve them



Organisations also struggle with finding the right mix between COTS and custom solutions. For many, this is a trade-off between short-term savings and long-term value creation. COTS, which accounts for 71 percent of mobile applications, can be economical, quick to market and easy to implement. Custom solutions, 29 percent of the mix, provide applications more deeply integrated with legacy systems and that offer personalised user experiences. If not the right fit, COTS applications could result in hidden costs and generic, unsatisfying experiences. And custom apps typically require a longer time for deployment and a higher upfront cost. Choosing the right balance is difficult – as few companies can afford to go completely one direction or the other – but can be critical in creating long-term value.

If there is a light at the end of this tunnel – and one that provides guidance for others – it is that companies that do strategically align mobile initiatives with corporate objectives enjoy more success than others and are able to optimise the ROI of their projects. Our survey results revealed that 47 percent of those that achieve higher ROI prioritised 'alignment with strategic business goals' as their most important criterion for evaluating their mobile initiatives, compared to only 39 percent of others.

Case study – Medtronic's strategically aligned, mobile-centric approach engages its customers, employees and partners⁷

Medtronic, a global medical technology, services and solutions company, exemplifies how to create business value through strategic alignment of offerings. The company carefully mapped its applications to the business goals. Medtronic's 'Minimed,' for example, connects a first-generation 'wearable artificial pancreas' continuous glucose monitor to an insulin pump. 'CareLink' remotely connects cardiac device patients to physicians.

The results: Medtronic has reduced health worker screening time to less than three minutes per patient and with 100-percent accuracy. CareLink transmissions now result in analysis faster than in-office doctor visits. The company has also improved time-to-market, while increasing productivity and reducing printing/storage costs.

Rethinking the approach; learning what works

To overcome challenges to optimising ROI, organisations need to rethink how they approach mobile. Through analysis of our survey results from 1,000 C-suite and mobile executives, we were able to identify three distinct kinds of mobile enterprise, each of which is at a different stage on the voyage to capture full mobile ROI. Each is characterised by differentiated dimensions of goals, approaches and outcomes (see Figure 4):

Growers – These organisations have the highest performance expectations and represent the highest proportion of outperformers. They are more strategic and look for new opportunities everywhere – new industries and services – and focus on creating new sources of revenue. They use a balanced approach between COTS and custom apps also they use analytics to draw out greater value. As a result, they plan to spend an average of USD200,000 USD less per mobile initiative than the other groups in our study.

Experimenters – These enterprises emphasize fast, new and unproven approaches, both inside and outside their organisations, to try new business models and look for quick wins with shorter payback periods. They recognise the importance of co-ordination, but are not fully integrated.

Opportunists – Opportunists are more tactical and rely heavily on COTS solutions. They use ROI as a lagging indicator of mobile initiatives pursued and they focus on creating new revenue sources in an ad-hoc manner.

Figure 4
A side-by-side comparison highlights key differences in characteristics of each performance tier

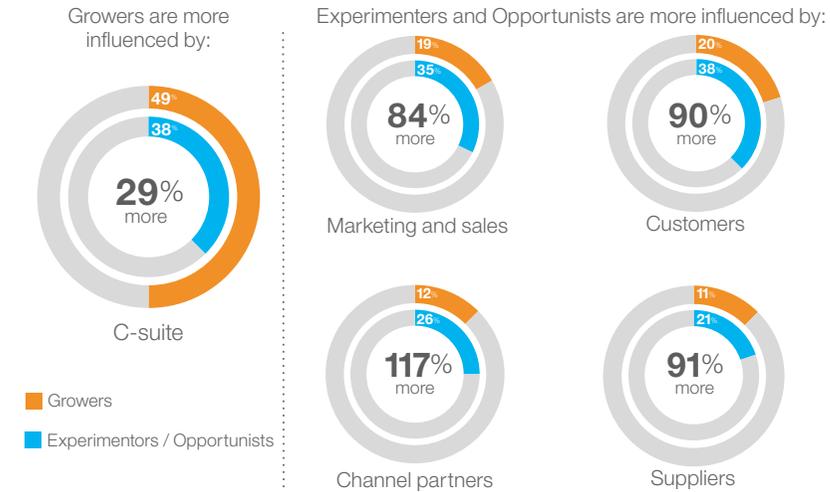


What actions, specifically, do Growers undertake that enable them to outperform the other groups? Through our analysis of the survey results, we identified four key behaviours that help Growers capture greater value from their mobile initiatives:

1. Growers prioritise strategically rather than just tactically – They align mobile initiatives with organisation-wide business goals, rather than just emphasizing quick, inexpensive efforts with limited impact. Growers align their mobile portfolios with their organisations’ strategic business goals 21 percent more than Experimenters and Opportunists. The latter two, on the other hand, prioritise timing and simplicity of business integrations.
2. Growers have the C-suite as a top influencer driving the overall mobile portfolio – While it is wise to heed direct user and line-of-business input when planning mobile initiatives, Growers use longer-term strategic vision from the C-suite to guide their mobile portfolios (see Figure 5). Successful mobile initiatives are driven from the top as Growers are more internally influenced, relative to Experimenters and Opportunists, which lack strategic cohesiveness across their influencers. The varied range of influencers, combined with less strategic guidance, would also follow consistently with the more ad-hoc approach that the Experimenters and Opportunists tend to use.

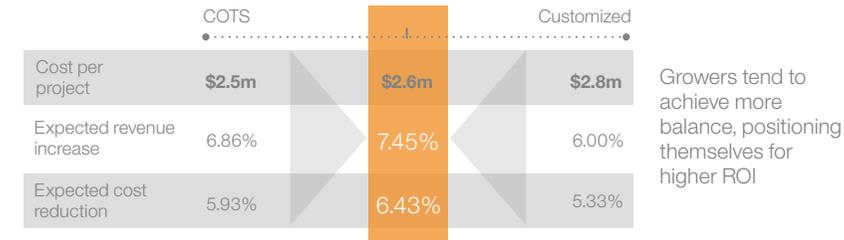
Figure 5
Mobile initiatives led by Growers are influenced by strategic-oriented stakeholders: the C-suite

Experimenters and Opportunists use a varied range of influencers, with less guidance from strategic leadership



- Growers manage key components of their mobile portfolios internally – Growers, with their strategic approaches, are more likely to recognise mobile’s transformative power and, therefore, embrace it throughout their organisations, building and scaling the needed resources internally. Organisations that may be new to their mobile journeys and more reactionary, such as Opportunists, are less likely to have yet built deep internal resources. They tend to rely more on using external resources to fill gaps in scalability. Security is the most prevalent component in which Growers build internal capability, with 67 percent of them managing mobile security internally.
- Growers find the optimal balance between COTS and custom approaches – Unlike Growers, Experimenters and Opportunists emphasize quick and cheap efforts over deeply integrated and personalised ‘fit’ of mobile solutions. Experimenters and Opportunists tend to use a heavier COTS mix, opting for speed over higher-or longer-term value creation, while Growers strike a balance based on their needs (see Figure 6). Our study revealed that organisations able to achieve this ‘balance’ between using COTS and custom mobile development also reported higher ROI through larger revenue increases and cost decreases, with only a marginal incremental investment. (For purposes of this survey analysis, ‘balance’ is defined as a range between 60-percent COTS / 40-percent custom and 40-percent COTS / 60-percent custom). Even though our research findings showed that a more ‘balanced’ approach may extend the average payback period by six tonine months, the higher ROI captured can be worth the wait.

Figure 6
Organisations can capture higher ROI by balancing their mobile portfolios



The executives surveyed in our study reported an accretive ROI from their mobile initiatives, with an overall average annual revenue increase of seven percent and cost decrease of six percent. The average annual mobile spend across their mobile portfolios was USD12.6 million. Based on those results, an organisation with annual revenues of approximately USD100 million could expect at least a break-even ROI in their first year alone.⁸

Even more encouraging, by adopting the behaviours exhibited by the Growers, the average revenue increase and cost decrease dials up almost another quarter point and half point, respectively, while at the same time reducing the average mobile portfolio investment by USD2 million.

Case study – Boots deploys mobile app for sales assistance⁹

Boots, a pharmacy-led health and beauty retailer, has launched a mobile solution for its United Kingdom stores to make it easier and simpler for customers to get the products they need. The new app taps into the product databases on boots.com and uses analytics to enable colleagues to easily make personal recommendations to customers, such as additional or alternative items available, as well as view product location and online inventory. If a product is not in stock in store, the Boots colleague can use the app to locate the item in another Boots store nearby or offer to order the product online. Boots UK plans to further evolve the app to support the company’s vision to use mobility to change the way customers shop. Boots’ investment in mobile technology demonstrates an innovative approach to helping its employees help their customers. Boots’ integrated digital and physical strategy helps accelerate the benefits of analytics and provide information to the mobile user at the moment it is needed.

Recommendations

The opportunities for increasing revenue, decreasing costs and optimising ROI from mobile are bountiful. The submerged 'mountain of ice' is just waiting for the right companies with the right strategies and the right offerings. The road to navigate for next steps is not the same for everyone. Where you go next, as well as where you want to end up, depends on your current capabilities and how you want to grow. For those that want to emulate the Grower in our study, we recommend the following:

Turbocharge your mobile portfolio

It's important to build speed, agility and urgency into your mobile enterprise. By reaching out across your entire organisation to engage users and key lines-of-business stakeholders, you can collaboratively identify quick wins, as well as impactful use cases that can spark a successful mobile culture. In such, mobile is integral to the core of the whole organisation, rather than just viewed as another IT project competing for already scarce resources.

To manage those scarce resources efficiently, consider building internal mobile capabilities around mission-critical activities (such as security) and then take advantage of your broader ecosystem and external resources on components that need to be scaled quickly. By sourcing those components externally, your organisation can maintain flexibility to respond to fluctuating demands for capacity. For example, leveraging a DevOps platform on cloud can provide access to rapid application development solutions and infrastructure precisely at the times when you need it, all while maintaining a flexible cost structure.

You can also identify mobile-development factory alternatives that will allow you to perform rapid prototyping to deliver a minimum viable product to launch quickly and refine with additional iterations. Analysing platform adoption rates enables you to identify optimal user-acceptance preferences and decrease mobile training costs. Using modular application development components and accelerator tools as building blocks can help deliver tested and proven functionality with minimal (30-percent or less) customisation, while further improving your organisation's mobile app deployment speed, quality and consistency.¹⁰

Avoid the false promise of fast and cheap

Recognising when to avoid the temptation of fast and cheap will help your organisation to maintain a strategic, enterprise-wide perspective and a focused and integrated mobile transformation.

Evaluate pre-built and pre-integrated app solutions designed to solve your industry-specific pain points to gain benefits of both COTS and custom apps. A variety of pre-built and pre-integrated app accelerator tools, such as design patterns, app components, integration components and business patterns, are available to deliver on that COTS/custom sweet spot.¹¹

To improve balanced decision making, calculate the true 'total cost' of COTS solutions, compared to the total cost of custom solutions. And evaluate the net present value of slightly longer payback periods, which can be offset by higher-quality custom solutions with potentially higher user satisfaction and financial returns.

Optimise mobile ROI

Through adoption of a quantitative approach to your mobile portfolio, you will help make sure resources are used wisely to deliver the highest benefits and enabling you to optimise your mobile ROI. By developing analytics into your mobile initiatives, you will better understand key influencers and users (employees and customers) and be able to build in 'next best action' functionality to deliver a robust mobile experience. Beyond the improved functionality, employing analytics tools can reveal insightful business information, predict or recommend next best actions based on scoring and business rules, provide guidance for optimisation and enable iterative learning from deep cognitive insight. Further, specific to app developers, employing mobile analytics can offer crash monitoring, troubleshooting insights, back-end performance analysis, app version adoption trends, mobile-platform usage data, custom-events reporting and alert pushing to speed up time-to-action.¹² Also, when planning for your mobile ROI optimisation, develop a clear understanding of the infrastructure and back-office integration needed to support your mobile initiatives in comparison to the variety of scalable managed mobility services available in the market. Often, the unplanned spend resulting from a misunderstood budget can cast a negative sentiment on your whole mobile portfolio and sink your mobile ROI.

Case study – German energy company improves ROI using mobile-enabled analytics to manage maintenance on large mining equipment¹³

RWE Generation produces electricity through a broad energy mix, including lignite or brown coal and has more than 40 gigawatts of power-generation capacity. RWE mines up to 100 million tons of lignite a year in opencast mines and uses huge machines, such as bucket-wheel excavators, spreaders and conveyors, that need continuous maintenance to ensure minimal interruption of mining activities.

RWE is using mobile solutions to improve efficiency and avoid unplanned machine downtime. A mobile app streamlines tasks and allows field workers to instantly capture repair information so they can easily identify equipment issues and complete tasks more efficiently and safely. Field technicians are equipped with mobile access to real-time updates of manuals, maintenance and operational history. Global Positioning System (GPS)-based location systems for monitoring and tracking of equipment and field workers results in a reduction in equipment downtime and cost of maintenance.

Are you ready to optimise return on mobile?

Understanding what all the preceding analysis means and heeding the three recommendations presented will not, on their own, help you capture higher ROI. You must understand and then act. Answering the following questions can help jumpstart the process:

- How are you leveraging mobile visioning, use-case development workshops and other tools?
- How are you using mobile analytics and accelerator solutions to gain insight on how users engage with your app and to rapidly prototype your use cases?
- How are you ranking and selecting mobile use cases?
- How can you strategise with an organisation-wide team to create a mobile portfolio plan and adopt a mobile app dev approach to fit your identified use cases based on quantified outcomes to optimise 'balance' decisions?
- Are you trying, testing and transforming your initiatives based on results and feedback?

Authors

Shamayun Miah is one of the Global leaders for the IBM Mobile Centre of Competence. In this role, he leads the IBM Mobile go-to-market initiative and global delivery capabilities for the Mobile Centre of Competence. He has implemented over 15 major enterprise mobile transformation programs in Banking, Energy and Utilities and Telecommunications and contributed to the development of the IBM Enterprise Mobile Strategy Engagement Model. Sham can be reached at shamayun.miah@uk.ibm.com.

Saudamini Dubey is a Partner, IBM Interactive Experience and Mobile Leader, Middle East and Africa with deep experience in front-office digitization on helping clients leverage social media, multi-channel and analytics to transform their businesses. Mini can be reached at sdubey@ae.ibm.com.

Will Duckworth is a Vice President (VP) in IBM's Global Business Services (GBS) business, currently leading the Interactive Experience (IX) business in Asia Pacific. IX is IBM's digital strategy, design and solutions business, delivering compelling and efficient user experiences across web, mobile, call centre and physical channels. Will can be reached at will.duckworth@au1.ibm.com.

Pete Teigen is Mobile Research Leader for IBM Institute for Business Value, which provides thought leadership and practical insights for business executives. Prior to that, Pete focused on mobile solutions for Government in IBM's Global Government Centre of Competence. Pete can be reached at pete.teigen@us.ibm.com.

Contributors

Phil Buckellew, Richard Esposito, Anthony Marshall, Steve Ballou, Kathleen Martin, Rachna Handa, Hebatallah Nashaat, Jim Phillips, April Harris

For more information

To learn more about this IBM Institute for Business Value study, please contact us at iibv@us.ibm.com. Follow @IBMIBV on Twitter, and for a full catalogue of our research or to subscribe to our monthly newsletter, visit: ibm.com/iibv.

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PO Box 41, North Harbour
Portsmouth, Hampshire PO6 3AU
United Kingdom

IBM Ireland Limited
Oldbrook House
24-32 Pembroke Road
Dublin 4

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