

THE 2017 BROOKINGS FINANCIAL AND DIGITAL INCLUSION PROJECT REPORT

Building a Secure and Inclusive
Global Financial Ecosystem

BY ROBIN J. LEWIS,
JOHN D. VILLASENOR, AND
DARRELL M. WEST





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Comments and feedback regarding the Financial and Digital Inclusion Project can be submitted to FDIPcomments@brookings.edu.

TABLE OF CONTENTS

| | |
|---|----|
| EXECUTIVE SUMMARY | 2 |
| INTRODUCTION | 4 |
| Review of 2015 and 2016 Findings | 4 |
| KEY FINDINGS FOR 2017 | 6 |
| Country commitment | 7 |
| Mobile capacity | 8 |
| Regulatory environment | 8 |
| KEY TRENDS AND CALLS TO ACTION | 10 |
| COUNTRY PROFILES | |
| AFGHANISTAN | 14 |
| BANGLADESH | 15 |
| BRAZIL | 16 |
| CHILE | 17 |
| COLOMBIA | 18 |
| DOMINICAN REPUBLIC | 19 |
| EGYPT | 20 |
| EL SALVADOR | 21 |
| ETHIOPIA | 22 |
| HAITI | 23 |
| INDIA | 24 |
| INDONESIA | 25 |
| KENYA | 27 |
| MALAWI | 28 |
| MEXICO | 29 |
| NIGERIA | 30 |
| PAKISTAN | 32 |
| PERU | 34 |
| PHILIPPINES | 35 |
| RWANDA | 37 |
| SOUTH AFRICA | 38 |
| TANZANIA | 40 |
| TURKEY | 41 |
| UGANDA | 42 |
| VIETNAM | 43 |
| ZAMBIA | 44 |
| METHODOLOGY | 45 |
| Research process | 45 |
| Scoring descriptions | 45 |
| APPENDIX: SCORING CHANGES | 52 |
| ENDNOTES | 53 |
| ACKNOWLEDGMENTS | 64 |
| ABOUT THE AUTHORS | 66 |

EXECUTIVE SUMMARY

Since the summer of 2014, the Brookings Financial and Digital Inclusion Project (FDIP) has examined efforts across a diverse array of countries to advance access to and usage of secure, affordable, formal financial services among underserved populations. As part of its aim to provide policymakers, private sector entities, representatives of nongovernmental organizations, and the public with information that can help improve financial inclusion in their respective countries and beyond, the FDIP team has produced an annual report that evaluates countries' progress toward financial inclusion.

The first annual FDIP report, published in August 2015, examined financial inclusion developments in 21 geographically, politically, and economically diverse countries. The report featured a scorecard that assessed each of the FDIP countries across four "dimensions" of financial inclusion: country commitment, mobile capacity, regulatory environment, and the adoption of traditional and digital financial services. The report's findings emphasized the importance of developing formal commitments to financial inclusion; engaging both public and private sector stakeholders in a national financial inclusion dialogue; and promoting the availability and adoption of appropriate digital financial services among underserved groups through enabling regulation and innovative design.¹

The second annual FDIP report, published in August 2016, featured the addition of five new countries: the Dominican Republic, El Salvador, Egypt, Haiti, and Vietnam. These countries were added to the FDIP sample in order to broaden the geographic scope of the focus countries and reflect feedback from members of the international financial inclusion community regarding countries that might warrant further examination. The report also enhanced

several scorecard metrics in order to address stakeholder input regarding thematic areas that might merit greater focus, such as consumer protection.

That report demonstrated continuing progress on global financial inclusion regarding the development of national financial inclusion strategies and advancements toward mobile money platform interoperability. In it, we also identified several priority action areas for public sector, private sector, and civil society stakeholders aiming to augment financial inclusion: 1) Establishing and achieving specific, measurable financial inclusion targets; 2) Promoting more comprehensive data collection and analysis regarding financial access and usage, particularly among traditionally underserved groups such as women; 3) Advancing regulatory efforts designed to facilitate financial inclusion; and 4) Enhancing financial capability among customers in order to promote sustainable financial inclusion.²

The new annual FDIP report, published in August 2017, highlights selected financial inclusion-related updates for each of the 26 countries featured in last year's report and identifies possible next steps for advancing financial inclusion. It identifies three key overall findings, based upon trends observed across the international financial inclusion landscape throughout the course of the FDIP lifecycle: 1) There has been growth in national-level recognition among the FDIP countries that financial inclusion is a key ingredient for sustainable development; 2) "Fintech," the intersection of technological innovation and the financial sector, possesses tremendous potential to accelerate progress toward financial inclusion; and 3) Countries must amplify investments in cybersecurity efforts and knowledge-sharing in order to fully reap the benefits of financial services innovation.

For each of these three key findings, the FDIP team has identified several action steps that we believe will help to further advance financial inclusion.

First, while countries have increasingly recognized that advancing access to and usage of affordable, secure formal financial services can contribute to their development objectives, there are a number of steps that would bring this closer to reality:

- As discussed in the 2015 FDIP report, national-level financial inclusion entities should set specific, measurable targets related to financial inclusion progress. For example, countries can enshrine these targets in their national financial inclusion strategies and/or submit them to entities such as the Alliance for Financial Inclusion as part of their Maya Declaration targets.
- National-level financial inclusion entities should establish specific financial consumer protection guidelines and coordinate with financial service providers and civil society entities to determine how to ensure customers understand the terms of financial products and services available to them, as well as relevant redress mechanisms.
- Where possible, regulators and policymakers should consistently provide updated, detailed data on progress toward their financial inclusion objectives within a publicly available platform in order to facilitate greater transparency, accountability, and knowledge-sharing.
- Financial inclusion stakeholders such as financial service providers and civil society entities should collaborate closely with government entities both domestically and internationally to share their various perspectives on financial inclusion pathways and challenges. This dialogue will enable countries to identify promising financial inclusion-related interventions and share key learnings regarding best practices for advancing access to and usage of quality, affordable financial services.

Second, while fintech can help enhance the accessibility and utility of financial services for customers and render the deployment of these services more cost-effective for providers, there are a number of opportunities to

maximize the benefits and avoid the potential pitfalls of fintech:

- Traditional financial institutions and fintech entities should coordinate closely in order to leverage the strengths of each sector, such as robust infrastructure and technological expertise.
- Policymakers and regulators should consider establishing regulatory “sandboxes” for fintech entities to explore various opportunities for innovation within a supportive and clear regulatory environment.
- Policymakers, regulators, financial service providers, fintech startups, and any other entities that utilize fintech should invest in cybersecurity assessments and risk management training to improve the integrity of their services and enhance consumer confidence in the formal financial sector.
- Policymakers and regulators should develop or strengthen targeted financial consumer protection frameworks and related initiatives to help ensure that robust consumer protections are in place.

Third, given the increasing prevalence of digital financial services and the considerable diversity of players involved in the financial services sector, the issue of cybersecurity merits greater attention and action from the financial inclusion community:

- Policymakers and regulators, fintech firms, civil society entities with financial inclusion expertise, and traditional financial institutions such as banks should amplify discussions surrounding cybersecurity in order to facilitate technical assistance and identify best practices.
- Regulators and policymakers should consider the use cases and technologies involved when developing appropriate cybersecurity guidance and solutions.
- Financial service providers must take steps to ensure that the development of innovative products is coupled with stringent testing and monitoring.
- Financial service providers and entities that house financial data should invest in bolstering the security of outdated or centralized systems in order to protect the integrity of the financial ecosystem.

INTRODUCTION

Review of 2015 and 2016 Findings

The objective of the Brookings Financial and Digital Inclusion Project (FDIP), which began in the summer of 2014, is to provide policymakers, private sector entities, representatives of nongovernmental organizations, and the public with information that can help improve financial inclusion in their respective countries and beyond. To that end, the FDIP team produces an annual report and scorecard that evaluate countries' commitment to and progress toward financial inclusion.

The objective of the Brookings Financial and Digital Inclusion Project (FDIP), which began in the summer of 2014, is to provide policymakers, private sector entities, representatives of nongovernmental organizations, and the public with information that can help improve financial inclusion in their respective countries and beyond.

The first annual FDIP report and scorecard, published in August 2015, examined key questions surrounding ways to advance financial inclusion, including 1) Do country commitments make a difference in progress toward financial inclusion?; 2) To what extent do mobile and other digital technologies advance financial inclusion?; and 3) What legal, policy, and regulatory approaches promote financial inclusion?³

The 2015 report assessed the financial inclusion landscape across 21 economically, geographically, and politically diverse countries by examining country-specific

legislation and news stories, reviewing multinational datasets, and corresponding with financial inclusion experts in the focus countries and beyond.

The FDIP team developed a set of metrics to measure countries' commitment to and progress toward financial inclusion. The metrics were designed to evaluate four "dimensions" of financial inclusion: country commitment, mobile capacity, regulatory environment, and adoption of traditional and digital financial services.

The 2015 report yielded the following key takeaways:

- Country commitments to advancing financial inclusion matter.
- The movement toward digital financial services will accelerate financial inclusion.
- Geography generally matters less than policy, legal, and regulatory factors, although some regional trends in terms of financial services provision are evident.
- Central banks, ministries of finance, ministries of communications, banks, nonbank financial service providers, and mobile network operators have major roles in achieving greater financial inclusion and should coordinate closely with respect to policy, regulatory, and technological advances.
- Full financial inclusion cannot be achieved without addressing the financial inclusion gender gap and accounting for diverse cultural contexts with respect to financial services.

In 2016, the FDIP team added five new countries to the study: the Dominican Republic, Egypt, El Salvador, Haiti, and Vietnam. We also enhanced our metrics list to incorporate feedback from members of the financial inclusion community and better capture progress toward financial inclusion. The 2016 report found that substantial progress

had been made toward advancing financial inclusion in many countries. Generally, we found that the right blend of stakeholder buy-in across the public, private, and civil society sectors, coupled with an enabling regulatory framework for digital financial services, was key for amplifying access to financial services among underserved populations.⁴

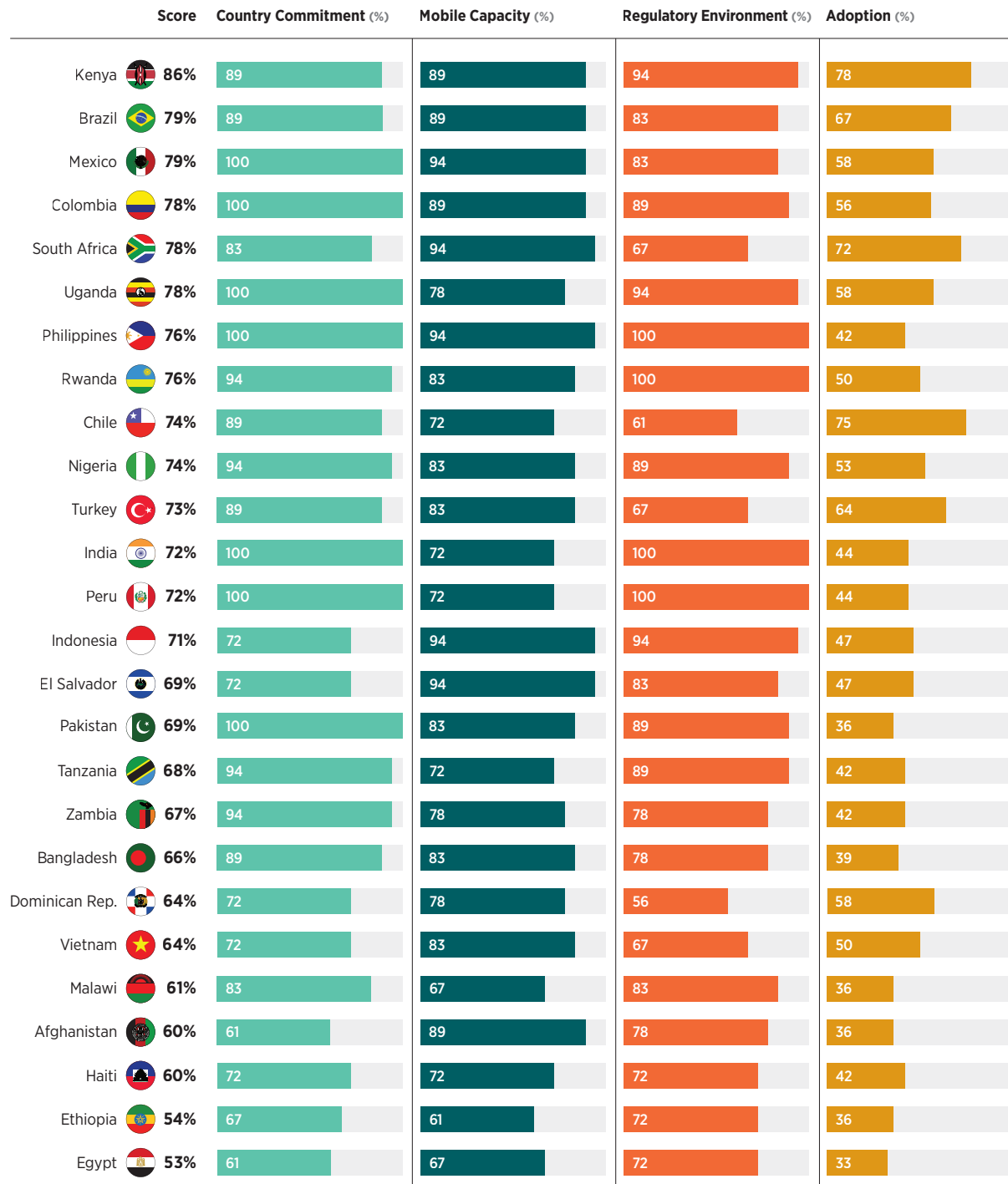
The 2016 report honed in on opportunities to facilitate greater access to and usage of financial services among select groups of marginalized populations—specifically, women, refugees, and under-resourced migrants. Action items that may help reduce the gender gap⁵ in financial inclusion include advancing data collection efforts to determine how groups utilize existing services and identify gaps in the market; leveraging that data to develop specific targets, initiatives, and strategies for advancing women's financial inclusion; identifying and cultivating “champions” to amplify awareness among government entities and private sector representatives regarding gender disparities in financial inclusion; promoting the development of digital identity programs;

leveraging digital channels to advance convenient access to financial services; and considering how to best ensure customers are comfortable accessing financial services.

We also identified three actions items for fostering a more accessible and inclusive ecosystem for refugees and under-resourced migrants. These actions items include 1) ensuring that the design and delivery of financial services is conducive to the needs of non-native customers where possible; 2) developing financial policies that consider the needs of young refugees and migrants; and 3) facilitating inclusive access to digital identity mechanisms.

Additionally, the 2016 report identified four priority areas that warrant additional action on the part of the international financial inclusion community: 1) establishing specific, measurable financial inclusion targets; 2) collecting and analyzing data relevant to financial access and usage, particularly among underserved groups; 3) advancing regulatory changes designed to facilitate financial inclusion; and 4) enhancing financial capability among consumers.

KEY FINDINGS FOR 2017



For the third year in a row, Kenya ranked at the top of the FDIP scorecard, driven by its robust commitment to advancing financial inclusion, widespread adoption of mobile money services among traditionally underserved groups, an increasingly broad range of mobile money services (including insurance and loan products), and an enabling regulatory environment for digital financial services.

As in previous years, the top-performing countries were regionally diverse. In addition to Kenya, the other top-scoring countries were distributed across Latin America and Sub-Saharan Africa: Brazil and Mexico tied for second place, and Colombia, South Africa, and Uganda tied for third.

Countries in Asia were also represented near the top of the scorecard, with the Philippines scoring only two percentage points behind Colombia, South Africa, and Uganda. We expect that other FDIP countries in this region will continue to enhance their digital ecosystems and adoption rates of formal financial services over time, given the region's robust technology environment and widespread adoption of mobile phones (the Asia Pacific region is expected to account for about two-thirds of the 860 million new mobile subscribers anticipated globally by 2020).⁶

Below, we drill down into dimension-level findings from the FDIP scorecard. For selected financial inclusion-related highlights and suggested next steps for each of the 26 countries in our sample, please consult the country summaries on pages 14–44. More background on these countries' financial inclusion environments is available in the 2015 and 2016 FDIP reports.

Country commitment

As in last year's report, the 2017 report finds that several FDIP countries have enhanced their national-level commitments to advancing financial inclusion. Indeed, for the first time in the course of our project lifecycle, all of the FDIP countries are members of international financial inclusion-oriented organizations or networks. These entities include organizations such as the Better Than Cash Alliance (BTCA) and networks such as the Alliance for Financial Inclusion (AFI).

Moreover, among the countries that have made progress on indicators such as the development of national financial inclusion strategies and bodies, these financial inclusion entities often emphasize the quality dimension of financial inclusion, not just access to and use of services. One example of this phenomenon can be found in Afghanistan, where Da Afghanistan Bank's Financial Inclusion Department, established in June 2016,⁷ expresses a vision of providing "convenient, secure, proper, economical, high quality and continuous access to financial services [...] especially [for] the low-income, vulnerable and deprived section of the society."⁸ That department focuses on areas such as responsible finance and consumer protection, data measurement, and financial inclusion policy and regulation.⁹ Among its responsibilities is the preparation of a national strategy for financial inclusion.¹⁰

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Other FDIP countries' recent efforts to advance financial inclusion demonstrate their interest in helping enhance and monitor access to financial services, as well as bolster the quality of customers' experiences with those services. Examples of countries that have improved their country commitment scores since 2016 include Egypt, where the central bank established a financial inclusion support unit in May 2017;¹¹ the Dominican Republic, which serves as a member of the BTCA;¹² and Mexico, which launched its national financial inclusion strategy in June 2016.¹³

With respect to the latter, Mexico's strategy reflects a holistic perspective of financial inclusion by focusing on data collection and quality in addition to access and usage. The strategy is structured around six pillars, which emphasize issues like financial education (particularly for children and youth), the development of

telecommunications infrastructure and financial infrastructure in underserved areas, client protection, and generation of data and measurements.¹⁴

Mobile capacity

The global mobile environment has continued to demonstrate considerable progress over the past year, with current and future growth concentrated in developing markets. According to the GSMA (a trade body that represents the interests of mobile operators globally), by the end of 2016, 65 percent of the world's population had a mobile subscription, with that penetration rate expected to reach 73 percent by 2020.¹⁵ Developing markets are expected to account for nine out of ten new subscribers in the period between 2016 and 2020.¹⁶

However, there are ample opportunities for growth with respect to infrastructure, particularly in developing markets. The GSMA's 2017 report on the global mobile economy noted that about 1.3 billion people are not covered by a mobile broadband network. Certain areas face particularly acute challenges in terms of infrastructure investment. For example, in Sub-Saharan Africa, the GSMA noted that "two thirds of the population live in rural areas where capital-intensive infrastructure deployment is commercially unviable."¹⁷

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In terms of mobile money, by the end of 2016 more than half a billion mobile money accounts were registered around the world,¹⁸ and mobile money services were available in two-thirds of low- and middle-income countries.¹⁹ Domestic mobile money account-to-account interoperability arrangements may have boosted adoption of these services, as customers from one mobile money provider can send money directly to the accounts of customers of

another provider, maximizing the utility of these services for some customers. As of 2016, the GSMA found that 15 markets exhibited this form of interoperability, including ten FDIP countries.²⁰

The top-scoring countries on the mobile capacity dimension of the FDIP scorecard are quite economically and regionally diverse, representing Latin America and the Caribbean, Africa, and Asia. The five top-scoring countries for 2017 are El Salvador, Indonesia, Mexico, the Philippines, and South Africa.

Among the 26 FDIP countries, Mexico and Peru made the greatest scoring improvements between 2016 and 2017 with respect to the mobile capacity dimension. Mexico's scoring increase was due in part to significant advancements in the adoption of smartphones, which can provide a more user-friendly platform for engaging in financial transactions than feature phones.²¹

In the case of Peru, increases in the adoption of smartphones and the expansion of mobile money offerings helped drive its scoring increase, which was the largest increase of any FDIP country on the mobile capacity dimension. We expect Peru to continue to augment the diversity of its mobile money offerings and adoption rates in the future as the fully-interoperable Bim mobile money platform continues to adapt to market needs and scale up.²²

The Bim payments platform got off to a slower start than expected due to various challenges, including difficulty among agents adapting from point of sale devices to mobile phones and mobile network coverage gaps.²³ However, broad buy-in from key stakeholder groups and strong commitment from the company managing the platform should help Bim meet its revised financial inclusion-related targets in the future.²⁴

Regulatory environment

Across the full FDIP country sample, changes in countries' regulatory environment scores were less pronounced than in the country commitment and mobile capacity dimensions. This is likely in part because regulatory adjustments are particularly time-intensive to develop and implement. However, several countries have made progress toward fostering a more enabling regulatory environment. For example, countries such as Egypt and

the Philippines instituted mobile money account-to-account interoperability in 2016, according to the GSMA.²⁵

It should be noted that the country summaries in this report highlight several possible next steps for financial inclusion experts to consider when evaluating how to best advance an enabling regulatory environment for traditional and digital financial services. Suggested action items and highlights from the 2015 and 2016 reports have been reaffirmed or adjusted in accordance with financial inclusion developments in each country.

Mexico and Peru made the greatest scoring improvements between 2016 and 2017 with respect to the mobile capacity dimension.

KEY TRENDS AND CALLS TO ACTION

Below we identify three key overall findings and associated calls to action, based upon trends observed across the international financial inclusion landscape throughout the course of the FDIP lifecycle.

1. **Growth in national-level recognition among the FDIP countries of financial inclusion as a key ingredient for sustainable development is consistent with a broader global pattern.**

The potential social and economic benefits of digital finance and financial inclusion are widely recognized. Access to and usage of formal financial services helps improve local economic activity, enable customers to plan for the future, and boost household welfare, among other benefits.²⁶ With respect to digital finance specifically, a September 2016 study by the McKinsey Global Institute found that “widespread use of digital finance could boost annual GDP of all emerging economies by \$3.7 trillion by 2025.”²⁷

While the micro- and macroeconomic benefits of fostering financial inclusion have received significant attention globally, many important questions about how best to balance principles such as financial security, privacy, inclusion, and consumer protection remain.

While the micro- and macroeconomic benefits of fostering financial inclusion have received significant attention globally, many important questions about how best to balance principles such as financial security, privacy, inclusion, and consumer protection remain. Entities

such as AFI, BTCA, and the Global Partnership for Financial Inclusion provide platforms for policymakers, regulators, private sector representatives, and civil society entities to discuss those key questions and share valuable learnings about ways to advance financial inclusion through digital and traditional mechanisms.²⁸ As noted above, all 26 FDIP focus countries have joined international knowledge-sharing networks such as AFI and BTCA.

Moreover, the vast majority of FDIP countries are members of the Maya Declaration, a framework for financial regulatory and policymaking institutions to “make concrete financial inclusion targets, implement in-country policy changes, and regularly share progress updates.”²⁹ When the Maya Declaration was launched at the 2011 AFI Global Policy Forum, 17 AFI members made commitments under the declaration. Five years later, that number had more than tripled.³⁰ While this trend indicates considerable progress, given that the 58 member institutions with commitments represent about 51 percent of AFI’s membership, there are still opportunities for further growth.

While financial inclusion is widely accepted as a mechanism for helping to achieve broader sustainable development goals such as gender equity and poverty reduction, there are several steps that countries should take to transform this understanding into action.

First, as discussed in the 2015 FDIP report, policymakers, regulators, and other national-level financial inclusion entities should set specific, measurable targets related to financial inclusion. For example, countries can enshrine these targets in their national financial inclusion strategies and include them among their Maya Declaration targets.

Second, policymakers and regulators should establish specific financial consumer protection guidelines and coordinate with financial service providers and civil society entities to determine how to ensure customers understand the terms of financial products and services

available to them, as well as relevant redress mechanisms. There is evidence to suggest consumer protection is already a priority area for many countries: Of the specific commitments under the Maya Declaration as of June 2016, more than a quarter were related to consumer empowerment and market conduct, which includes consumer protection, financial literacy, and financial education. The second-highest number of commitments involved digital financial services, with the collection of financial inclusion data coming in third.³¹

As we noted in the 2016 FDIP report, financial literacy and financial education programs should consider how to enable customers to fully absorb and leverage information related to financial products and services in ways that help advance their financial health. In other words, these programs should seek to advance financial capability, defined by the Center for Financial Inclusion as “the combination of knowledge, skills, attitudes, and behaviors a person needs to make sound financial decisions that support well-being.”³²

Organizations like the Center for Financial Inclusion and the World Bank Group have published a number of studies highlighting tools for regulators, policymakers, financial service providers, and other interested parties to utilize when assessing financial capability and developing financial capability programs.^{33 34} Among these best practices for financial capability interventions are taking advantage of teachable moments; learning by doing; providing reminders and default options (e.g., default savings options); sharing heuristics (i.e., mental shortcuts); using gamification and other approaches to make learning enjoyable; tailoring the programs to specific customers or groups; and using the power of social connections to provide support and positive reinforcement to customers.³⁵

Third, financial inclusion stakeholders such as financial service providers and civil society entities should collaborate closely with government entities, both domestically and internationally, to share their various perspectives on financial inclusion pathways and challenges. This dialogue will enable countries to identify interesting financial inclusion-related interventions and share key learnings regarding best practices.

Finally, where possible regulators and policymakers should consistently provide updated, detailed data on progress toward their objectives within a publicly

Where possible, regulators and policymakers should consistently provide updated, detailed data on progress toward their objectives within a publicly available platform in order to facilitate greater transparency, accountability, and knowledge-sharing.

available platform in order to facilitate greater transparency, accountability, and knowledge-sharing. The AFI Data Portal is one valuable platform for this kind of information exchange.³⁶ Regulators and policymakers should share regular updates where possible on specific financial inclusion targets and initiatives in order to maximize the utility of the data among financial inclusion stakeholders.

2. Fintech possesses tremendous potential to accelerate progress toward financial inclusion but requires a collaborative approach to facilitate innovation and ensure security.

“Fintech” is a broad term situated at the intersection of the financial services and technology sectors.³⁷ Given the complexity of these sectors, a variety of players are involved in the fintech space, including startups, established technology companies, financial service institutions, consumers, regulators, other government entities, and investors.³⁸ As noted by the International Monetary Fund, one of the challenges of fintech is that the diversity of entities involved in this space, along with rapidly evolving technological capabilities, have led to a blurring of boundaries “among intermediaries, markets, and new service providers.”³⁹ Indeed, the Financial Stability Board notes that fintech activities can be sorted into several categories of financial services, including “(i) payments, clearing and settlement; (ii) deposits, lending and capital raising; (iii) insurance; (iv) investment management; and (v) market support [...]”⁴⁰

The potential benefits of leveraging technology in the financial services sector include reducing costs,⁴¹ enhancing opportunities to meet customers’ evolving needs with new financial service offerings and platforms,⁴² and streamlining operations and speeding processes.⁴³

For these reasons and others, mainstream financial institutions are embracing the possibilities of complementary roles with fintech entities. For example, a 2017 PwC report found that 82 percent of survey respondents from the financial services sector on average expected to increase fintech partnerships in the next three to five years.⁴⁴

Given the social and economic opportunities afforded by fintech, it is perhaps not surprising that global fintech funding has experienced significant growth.

As noted by the Institute of International Finance and the Center for Financial Inclusion at Accion, these partnerships can help address financial inclusion challenges by facilitating access to new market segments; developing new products for existing customers; collecting and using data; and deepening customer engagement with financial services, among other benefits.⁴⁵

Given the social and economic opportunities afforded by fintech, it is perhaps not surprising that global fintech funding has experienced significant growth.⁴⁶ According to the 2017 PwC report, funding of fintech startups has “increased at a compound annual growth rate (CAGR) of 41 percent over the last four years.”⁴⁷

Examples of fintech partnerships that support topics such as financial education and inclusion include initiatives in Mexico and Colombia. BBVA Bancomer in Mexico and Bancolombia in Colombia are each partnering with a Silicon Valley-based startup called Juntos in order to send tailored text messages to customers to help remind them to save and respond with information on their “financial needs and goals.”⁴⁸

Moving forward, traditional financial institutions and fintech entities in each of the FDIP countries and beyond should coordinate closely in order to leverage the strengths of their respective sectors, which include robust infrastructure and technological expertise, respectively.⁴⁹ National financial inclusion bodies can provide a platform to facilitate this kind of coordination.

Second, policymakers and regulators should consider establishing regulatory “sandboxes” to enable

fintech entities to explore various opportunities for innovation within a supportive and clear regulatory environment. These sandboxes serve as a “set of rules that allows innovators to test their products/business models in live environment without following some or all legal requirements, subject to predefined restrictions,” including limitations on the number of clients and risk exposure, time-limited testing, predefined exemptions, and testing under the regulator’s supervision.⁵⁰

Third, policymakers, regulators, financial service providers, fintech startups, and any other entities that utilize fintech should invest in cybersecurity assessments and risk management training to help protect the integrity of their services, which in turn supports consumer confidence in the formal financial sector. (More information on this topic is included in the third key finding, below.)

Finally, policymakers and regulators should develop or strengthen targeted financial consumer protection frameworks and related initiatives to ensure that adequate consumer protections are in place. While many FDIP countries have emphasized the importance of consumer protection in their Maya Declaration targets and financial inclusion strategies, far fewer have robust financial consumer protection frameworks in place, signifying opportunities for progress.

3. Given the increasing prevalence of digital financial services and the diversity of players involved in the financial services sector, the issue of cybersecurity merits greater attention and action from the financial inclusion community.

While fintech innovations can help enhance the security of certain services in the financial sector, these innovations can also be vulnerable to cybersecurity risks. As noted by the Financial Stability Board (FSB), “[S]ome operational risks could be reduced with FinTech developments, as legacy systems are modernised and processes streamlined. Yet cyber risk, third-party dependencies and legal uncertainty could lead to new and expanded sources of operational vulnerabilities.”⁵¹

For example, as one of the authors of this report has observed, while innovations like blockchain “can in principle be extremely secure, securing them requires careful attention to issues including where and how private keys are stored and used, the methodology for confirming

transactions, and mechanisms for establishing and modifying how distributed systems obtain consensus.”⁵²

Given the increasing prevalence of digital financial services that leverage fintech solutions—for example, the 2017 PwC report found that 77 percent of survey respondents from the financial services sector planned to adopt blockchain as part of a production system or process by 2020⁵³—it is important for financial inclusion stakeholders to carefully consider cybersecurity risks and approaches. As noted by the FSB, “Ex ante contingency plans for cyberattacks, information sharing, monitoring, a focus on incorporating cyber-security in the early design of systems, and financial and technology literacy could help to lower the probability of cyber events that have adverse effects on financial stability.”⁵⁴

To facilitate discussions regarding key questions at the intersection of cybersecurity and financial inclusion, the FDIP team hosted a roundtable at Brookings in February 2017. The roundtable provided a platform for a diverse array of public sector, private sector, and civil society representatives to discuss cybersecurity challenges and opportunities within the digital financial ecosystem and explore possible mechanisms for policymakers, regulators, financial service providers, nongovernmental organizations, and other stakeholders to help strengthen the state of cybersecurity within the global financial landscape.⁵⁵ We highlight takeaways from the roundtable below, drawing from the event readout.⁵⁶

Participants at the roundtable noted that budget constraints, competing policy priorities, an unwillingness to draw attention to cyber threats, and a lack of awareness surrounding cybersecurity issues may all serve as barriers that preclude regulators, policymakers, mainstream financial service entities, and fintech companies from adequately investing in cybersecurity measures.⁵⁷

However, participants also generally agreed that financial entities must nonetheless take proactive steps to assess the security of their respective systems and those of their partners in the digital financial ecosystem, while policymakers and regulators must ensure that customers are

protected in the case of an adverse cyber event or other security issue. We outline a number of these steps below.

First, policymakers and regulators, fintech firms, civil society entities with financial inclusion expertise, and traditional financial institutions such as banks should amplify discussions surrounding cybersecurity in order to facilitate technical assistance and identify a menu of best practices. However, these discussions should be framed in a way that does not have an unnecessary chilling effect on some customers’ willingness to engage with digital financial services because they are alarmed or confused by cybersecurity terminology.

Financial service providers must take steps to ensure that the development of innovative products is coupled with stringent testing and monitoring.

Second, regulators and policymakers should consider the use cases and technologies involved when developing appropriate cybersecurity guidance and solutions. For example, cybersecurity solutions in the mobile financial services space should be tailored to the type of network (e.g., 2G) that the product leverages.

Third, financial service providers must take steps to ensure that the development of innovative products is coupled with stringent testing and monitoring. After all, as the fintech sector grows, there will be “more interfaces between traditional financial service providers and fintech startups—and therefore more cyber vulnerability as data crosses those interfaces.”⁵⁸

Finally, the financial service providers and entities that house financial data should invest in bolstering the security of outdated or centralized systems in order to protect the integrity of the financial ecosystem. Knowledge-sharing and technical assistance will be a key component of this effort.



AFGHANISTAN



OVERALL SCORE

60%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 61% |
| Mobile capacity | 89% |
| Regulatory environment | 78% |
| Adoption | 36% |



GDP
(billion USD)¹

\$19



Adult population
(millions)²

18



Unique mobile
subscribership³

47%



Financial account
ownership among
adults⁴

10%



Financial account
ownership among
women⁵

4%



Formal commitment milestone

- Committed to the Alliance for Financial Inclusion in 2009⁶



Selected financial inclusion highlights

- Joined the Better Than Cash Alliance in 2013⁷
- Issued Money Service Providers Regulation in 2008⁸ and implemented electronic money institution-related amendments in 2011⁹
- Participated in an electronic money summit in October 2015¹⁰ and launched a public awareness campaign in February 2016 with respect to mobile financial services¹¹



Recent updates

- In June 2016, Da Afghanistan Bank established the Financial Inclusion Department, which includes a number of objectives related to the development and implementation of a national financial inclusion strategy, as well as advancing consumer protection, improving financial capability, conducting diagnostic studies to identify financial inclusion obstacles, and establishing a national database for financial inclusion.¹²
- In 2016, Afghanistan's national payments system went live. An initiative led by Da Afghanistan Bank enabled BPC Banking Technologies' SmartVista platform to serve as the national cards and mobile payment switch to interconnect banks, mobile wallets, third-party aggregators, and other key players.^{13 14}



Next steps

- Consider instituting agent banking regulations to increase regulatory clarity and amplify distribution of financial access points
- Finalize a national financial inclusion strategy to enhance coordination across relevant stakeholders and develop specific financial inclusion objectives
- Scale and expand mobile money agent interoperability arrangements, which to date have been limited¹⁵

BANGLADESH



OVERALL SCORE

66%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 89% |
| Mobile capacity | 83% |
| Regulatory environment | 78% |
| Adoption | 39% |



GDP
(billion USD)

\$195



Adult population
(millions)

114



Unique mobile sub-
scribership

53%



Financial account
ownership among
adults

31%



Financial account
ownership among
women

26%



Formal commitment milestone

- Committed to the Maya Declaration in 2012¹



Selected financial inclusion highlights

- Joined the Better Than Cash Alliance in June 2015²
- Established the Financial Inclusion Department within Bangladesh Bank in July 2015³
- Supported efforts to advance financial literacy and capability among women entrepreneurs⁴



Recent updates

- In May 2017, Bangladesh Bank was awarded the Global Money Week Award at the Global Inclusion Awards 2017, hosted by Child and Youth Finance International, for its “sustainable and innovative financial inclusion and financial education initiatives.”⁵
- Bangladesh Bank publishes quarterly reports on agent banking; as of May 2017, the latest report featured data from January to March 2017.⁶
- At the time this report was prepared, Bangladesh Bank had published its latest report on the state of financial inclusion in March 2017.⁷ Bangladesh Bank has also issued a number of circulars relating to financial inclusion.⁸



Next steps

- Finalize, disseminate, and implement the national financial inclusion strategy
- Promote affordability of mobile phones to facilitate greater access to mobile financial services and expand the availability of services like credit, savings, and insurance
- Advance wallet-to-wallet interoperability with respect to mobile financial services



BRAZIL



OVERALL SCORE

79%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 89% |
| Mobile capacity | 89% |
| Regulatory environment | 83% |
| Adoption | 67% |



GDP
(billion USD)

\$1804



Adult population
(millions)

160



Unique mobile
subscribership

71%



Financial account
ownership among
adults

68%



Financial account
ownership among
women

65%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

- Launched the National Partnership for Financial Inclusion in November 2011²
- Released the third report on financial inclusion in Brazil in 2015³



Recent updates

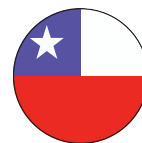
- In December 2016, the Banco Central do Brasil (BCB) and the Alliance for Financial Inclusion hosted the 6th International Week of Financial Citizenship, which explored the three pillars of financial citizenship (financial inclusion, financial education, and consumer protection) and agency banking.⁴ Financial citizenship is one of the central bank's top priorities, as noted in the "Agenda BC+," launched by the BCB in December 2016.⁵
- In November 2016, the Second Financial Citizenship Forum was held at the headquarters of the BCB. The Plan for Strengthening Financial Citizenship was presented at the Forum. The plan revolved around several issue areas, including advancing financial inclusion for small businesses, the relationship between citizens and the financial system, promoting financial well-being, and addressing financial vulnerability.⁶ The BCB is tracking progress on the 32 initiatives comprising the plan.⁷
- In September 2016, the BCB published the third edition of a report series on the use and quality of financial services. By complementing survey findings with information from the BCB's database, the report found that more than 70 percent of the adult population used bank accounts frequently and that almost half of the adult population had access to credit within the previous year.⁸
- In August 2016, the BCB released a report that highlighted its Financial Citizenship Program. One example of an initiative conducted under the program was a public-private effort involving 150 schools, in which financial education content was disseminated to students, teachers, and their relatives during National Students' Day.⁹
- Financial inclusion indicators, including service point indicators and other indicators focused on the national financial system, are being published progressively in the "Time Series Management System."¹⁰



Next steps

- Leverage the financial indicators data to help enhance understanding of the financial inclusion landscape and identify next steps for advancing financial inclusion for consumers and entrepreneurs
- Operationalize learnings from the Financial Citizenship Forum and 6th International Week of Financial Citizenship to help improve access, usage, and quality of formal financial services

CHILE



OVERALL SCORE

74%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 89% |
| Mobile capacity | 72% |
| Regulatory environment | 61% |
| Adoption | 75% |



GDP
(billion USD)

\$241



Adult population
(millions)

14



Unique mobile
subscribership

93%



Financial account
ownership among
adults

63%



Financial account
ownership among
women

59%



Formal commitment milestone

- Committed to the Maya Declaration in 2012¹



Selected financial inclusion highlights

- Instituted a national financial inclusion council in 2014²
- Ranked in the top-five with respect to formal financial institution account penetration among the FDIP countries as of 2014³
- Recognized by Data2X, the Inter-American Development Bank, the Global Banking Alliance for Women, and the United Nations Economic Commission for Latin America and the Caribbean in 2016 as the only country that has monitored sex-disaggregated data regarding its financial system consistently over a significant period of time⁴



Recent updates

- In December 2016, the Superintendency of Banks and Financial Institutions of Chile hosted the second “Conference on Banking Development, Stability, and Sustainability,” in conjunction with the Association of Supervisors of Banks of the Americas, the Millennium Institute for Market Imperfections & Public Policy, and the Department of Industrial Engineering of the University of Chile. The conference included a session focused on financial education and inclusion and featured a discussion of the “Survey of financial capabilities measurement in the Andean countries: Chile.”⁵
- Chile’s first financial capacity measurement survey with national coverage was undertaken during July and August 2016. The survey was sponsored by CAF, the development bank of Latin America, and the SBIF. The survey aimed to serve as a diagnostic of the financial knowledge, skills, attitudes, and behaviors of Chilean adults.⁶



Next steps

- Diversify the mobile money ecosystem by expanding the number of providers and offerings
- Leverage findings from financial capacity measurement survey to identify interventions targeted at enhancing financial inclusion among women and other underserved groups
- Finalize revisions to a 2014 law on digital payments to “expand the offer of e-money by regulated financial institutions,” as well as a law on the delivery of e-payment products and services by non-bank financial service providers⁷



COLOMBIA



OVERALL SCORE

79%

DIMENSION SCORES

| | |
|------------------------|------|
| Country commitment | 100% |
| Mobile capacity | 89% |
| Regulatory environment | 89% |
| Adoption | 56% |



GDP
(billion USD)

\$292



Adult population
(millions)

37



Unique mobile
subscribership

66%



Financial account
ownership among
adults

39%



Financial account
ownership among
women

34%



Formal commitment milestone

- Committed to the Maya Declaration in 2012¹



Selected financial inclusion highlights

- Launched Colombia's national financial inclusion strategy in March 2014²
- Decree 2338 established Colombia's Intersectoral Financial Inclusion Commission in 2015³
- Decree 1491, issued in July 2015, implemented Colombia's financial inclusion law (Law 1735 of 2014)⁴



Recent updates

- In addition to publishing an annual report on financial inclusion, Banca de las Oportunidades leads a variety of financial inclusion initiatives, including a program for underserved individuals in border areas.⁵
- In April 2017, Banco de Bogotá announced plans to extend its financial product adoption and literacy program by implementing its "Route to Financial Inclusion" project within another 50 municipalities in 2017.⁶
- In June 2016, representatives of the Grameen Foundation, Mastercard, and the public sector met in Colombia to discuss opportunities to expand electronic payments within Colombia's rural sector. For example, a pilot program was developed by the Grameen Foundation to "enable large buyers to electronically place orders with farmer cooperatives."⁷



Next steps

- Continue to monitor progress toward the quantifiable financial inclusion goals detailed in Colombia's National Development Plan 2014-2018
- Scale programs to advance financial literacy and electronic payments

DOMINICAN REPUBLIC



OVERALL SCORE

64%

DIMENSION SCORE

| | |
|------------------------|-----|
| Country commitment | 72% |
| Mobile capacity | 78% |
| Regulatory environment | 56% |
| Adoption | 58% |



GDP
(billion USD)

\$68



Adult population
(millions)

7



Unique mobile
subscribership

54%



Financial account
ownership among
adults

54%



Financial account
ownership among
women

56%



Formal commitment milestone

- Joined the Better Than Cash Alliance¹



Selected financial inclusion highlights

- Launched mobile money deployments in 2014²
- Passed legislation permitting agent banking in 2014³
- Conducted the National Survey of Economic and Financial Education in 2014⁴



Recent updates

- In 2016, the Ministerio de Hacienda de la República Dominicana joined the Better Than Cash Alliance.⁵
- Over the past year, the continued creation of subagents and mobile banking facilities has expanded the number of people who have access to certain financial products. For example, Banco Popular Dominicano had nearly 1,500 affiliated businesses as part of its network of banking sub-agents as of July 2016.⁶



Next steps

- Institute a national financial inclusion strategy
- Develop a comprehensive electronic money regulatory framework
- Identify quantifiable financial inclusion targets



EGYPT



OVERALL SCORE

53%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 61% |
| Mobile capacity | 67% |
| Regulatory environment | 72% |
| Adoption | 33% |



GDP
(billion USD)

\$331



Adult population
(millions)

61



Unique mobile
subscribership

60%



Financial account
ownership among
adults

14%



Financial account
ownership among
women

9%



Formal commitment milestone

- Joined the Alliance for Financial Inclusion in 2013¹



Selected financial inclusion highlights

- Agent banking is permitted under the 2003 Banking Law, and banks are permitted to issue electronic money under the 2010 regulations on mobile payments and transfers²
- Law 141 of 2014 provided guidance regarding microfinance³



Recent updates

- In May 2017, Egypt's central bank established a financial inclusion unit and was preparing a study on the financial services market on both the demand and supply side. The purpose of the study is to assess the quality dimension of new services and identify regulations and other legislation that might help to accelerate financial inclusion. The study is expected to be completed by the end of 2017.⁴
- Also in May 2017, the Egyptian Banking Institute organized a conference on advancing financial inclusion in the banking sector.⁵
- In February 2017, the National Payment Council was established in order to promote digital payments and facilitate adoption of formal financial services.⁶
- At the end of 2016, Egypt issued new regulations for mobile payments in an effort to advance cross-border remittances from mobile wallets.⁷
- In 2016, Egypt achieved account-to-account mobile money interoperability.⁸



Next steps

- Institute a national financial inclusion strategy
- Set specific financial inclusion targets within the national financial inclusion strategy and/or international financial inclusion networks
- Complete and disseminate findings from the Central Bank of Egypt's study on the financial services market

EL SALVADOR



OVERALL SCORE

69%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 72% |
| Mobile capacity | 94% |
| Regulatory environment | 83% |
| Adoption | 47% |



GDP
(billion USD)

\$26



Adult population
(millions)

4



Unique mobile
subscribership

81%



Financial account
ownership among
adults

37%



Financial account
ownership among
women

32%



Formal commitment milestone

- Committed to the Maya Declaration in 2013¹



Selected financial inclusion highlights

- Considered among the top 15 mobile money markets in the world in 2015, as measured by the proportion of active accounts relative to the total adult population²
- Approved a financial inclusion law in August 2015³
- Developed a set of indicators to measure progress toward financial inclusion⁴



Recent updates

- On August 13, 2016, El Salvador's Legislative Assembly approved the Financial Inclusion Bill.⁵ Entities such as the GSMA have raised some concerns with the bill, including possible burdensome costs associated with the requirement that mobile money providers store customers' funds in the central bank (rather than a commercial bank), and the fact that interest cannot be earned from the deposit held by the central bank.⁶
- As noted in the Alliance for Financial Inclusion's 2016 Maya Declaration report, the results of the first National Financial Access Survey were presented to the central bank of El Salvador in late May 2016. The report notes that data was collected at the national and departmental level.⁷



Next steps

- Expand digitization of government-to-person and person-to-business transfers
- Following the presentation of the National Financial Access Survey, incorporate feedback from key stakeholders to develop an action plan for addressing gaps in access to and usage of formal financial services
- Implement initiatives to foster financial education among underserved populations and define indicators to measure the progress of financial inclusion



ETHIOPIA



OVERALL SCORE

54%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 67% |
| Mobile capacity | 61% |
| Regulatory environment | 72% |
| Adoption | 36% |



GDP
(billion USD)

\$62



Adult population
(millions)

58



Unique mobile
subscribership

34%



Financial account
ownership among
adults

22%



Financial account
ownership among
women

21%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

- Established several financial inclusion goals in areas such as digital financial services, financial literacy, and payment systems as part of the country's Maya Declaration commitments²
- Initiated the creation of a Financial Inclusion Council in 2014³
- Coordinated with the World Bank Group to develop a national financial inclusion strategy⁴



Recent financial inclusion highlights

- As of September 2016, HomeSend (a joint venture of Mastercard and eServGlobal) and the Commercial Bank of Ethiopia announced a new remittance service during the US-Africa Business Forum that will allow more than 100 million Ethiopians to send funds directly to any mobile number in Ethiopia. This service was expected to be operational by the end of 2016.⁵
- According to a September 2016 report by McKinsey & Company, Ethiopia could experience a GDP increase of an estimated \$15 billion by 2025 through greater adoption of digital financial services.⁶
- As noted in the Alliance for Financial Inclusion's 2016 Maya Declaration report, published in August 2016, the National Bank of Ethiopia was preparing a national financial sector master plan that will encompass initiatives to achieve financial inclusion commitments under the Maya Declaration.⁷



Next steps

- Strengthen mobile and other digital infrastructure to enhance adoption of digital financial services
- Approve and implement the national financial inclusion strategy

HAITI



OVERALL SCORE

60%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 72% |
| Mobile capacity | 72% |
| Regulatory environment | 72% |
| Adoption | 42% |



GDP
(billion USD)

\$9



Adult population
(millions)

7



Unique mobile
subscribership

57%



Financial account
ownership among
adults

19%



Financial account
ownership among
women

16%



Formal commitment milestone

- Committed to the Maya Declaration in 2013¹



Selected financial inclusion highlights

- Permitted customers to use electronic wallet accounts under 2010 guidelines on electronic money²
- Developed a national financial inclusion strategy, with the support of the World Bank, in 2015³
- As of 2016, Haiti's central bank was working on the development of a comprehensive consumer protection framework⁴



Recent updates

- The implementation of the country's financial inclusion strategy has been delayed due to the country's uncertain political atmosphere, according to the Economist Intelligence Unit's "The Global Microscope 2016: The enabling environment for financial inclusion" report.⁵



Next steps

- Move forward with implementation of the new financial inclusion strategy
- Launch a national financial inclusion council



INDIA



OVERALL SCORE

72%

DIMENSION SCORES

| | |
|------------------------|------|
| Country commitment | 100% |
| Mobile capacity | 72% |
| Regulatory environment | 100% |
| Adoption | 44% |



GDP
(billion USD)

\$2089



Adult population
(millions)

934



Unique mobile
subscribership

53%



Financial account
ownership among
adults

53%



Financial account
ownership among
women

43%



Formal commitment milestone

- Committed to the Alliance for Financial Inclusion in 2012¹



Selected financial inclusion highlights

- Launched the Pradhan Mantri Jan Dhan Yojana program in 2014²
- Joined the Better Than Cash Alliance in September 2015³
- Issued provisional payments bank licenses to diverse entities, including nonbank institutions such as India Post, in August 2015⁴



Recent updates

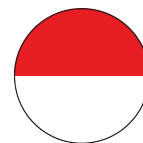
- As of May 2017, there were three fully functioning payments banks in India.⁵
- On November 8, 2016, the government of India instituted a “demonetization” drive, in which it was announced that Rs 500 and Rs 1,000 notes would become void by midnight the same day.⁶ The aims of the drive included curbing corruption and advancing digital financial services.⁷ However, while the drive did appear to lead to a significant increase in deposits in individuals’ accounts within the month of the announcement,⁸ the abrupt announcement led to economic disruption and other significant harms, including incidences of suicide, trampling, heart attacks, and denial of health care due to inability to pay with the demonetized currency.⁹ ¹⁰ Moreover, experts hold diverging views on whether the drive will have long-term benefits, including in terms of leading to greater engagement with digital financial services and in curbing corruption. More time is needed to determine the full consequences of the initiative.¹¹ ¹²
- India has achieved mobile money account-to-account interoperability across mobile money providers, according to the GSMA.¹³



Next steps

- Implement and scale financial capability initiatives to reduce account dormancy rates and incentivize adoption of digital payments at merchant locations to enhance the digital financial services ecosystem
- Monitor the effects of the demonetization initiative, particularly with respect to underserved groups

INDONESIA



OVERALL SCORE

71%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 72% |
| Mobile capacity | 94% |
| Regulatory environment | 94% |
| Adoption | 47% |



GDP
(billion USD)

\$862



Adult population
(millions)

186



Unique mobile
subscribership

81%



Financial account
ownership among
adults

36%



Financial account
ownership among
women

37%



Formal commitment milestone

- Committed to the Maya Declaration in 2012¹



Selected financial inclusion highlights

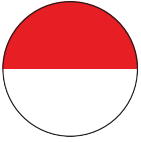
- Developed a national financial inclusion strategy in 2012 (a new strategy has since been launched)²
- Implemented mobile money platform interoperability in 2013³
- Tied for first place on the mobile capacity dimension of the 2017 FDIP scorecard



Recent updates

- A survey conducted by MicroSave and AKSI found that there has been significant growth in digital financial services in Indonesia, both with respect to branchless banking and e-money, with about 290,000 agents and over three million accounts in formal financial institutions.⁴ Yet there are opportunities for improvement, including limited awareness about transaction charges among consumers, limited financial literacy with respect to digital financial services, and a need to conduct greater outreach to unbanked consumers. The results of the survey were presented in May 2017.⁵
- In May 2017, Indonesia was selected as the country winner of the 2017 Global Inclusion Award for the Asia-Pacific Region during the 2017 Global Inclusion Awards organized by Child and Youth Finance International, in cooperation with the government of Germany.⁶
- A January 2017 press release noted that a national survey on financial literacy and inclusion conducted by the Indonesian Financial Services Authority (OJK) in 2016 found that financial literacy and financial inclusion had each grown by about 8 percentage points within a year.⁷
- In August 2016, the government of Indonesia presented a coordinated national strategy to promote financial inclusion, which will focus on six pillars, including financial education, supportive regulations, and consumer protection.⁸
- As of August 2016, OJK provided an outline of guidelines for the local fintech industry. The guidelines will focus on consumer protection issues, liability, and integrating banking entities, capital market entities, and non-bank financial institutions. By October 2016, OJK had formed a team to collect and analyze data that will inform the framework, and in November 2016, Bank Indonesia launched a special office for fintech.^{9 10 11}

(continued next page ►)



Indonesia

- During the Indonesia Fintech Festival and Conference held from August 29-30, 2016 by OJK and Indonesian Chamber of Commerce and Industry, a memorandum of understanding was signed between OJK and the UN Development Programme regarding financial literacy and inclusion.^{12 13}



Next steps

- Harmonize electronic money and branchless banking guidelines to enhance regulatory clarity and advance a level playing field for financial service providers
- Continue to implement the recent national financial inclusion strategy and facilitate coordination across key stakeholders
- Finalize the fintech framework and share learnings from the fintech sector with international entities

KENYA



OVERALL SCORE

86%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 89% |
| Mobile capacity | 89% |
| Regulatory environment | 94% |
| Adoption | 78% |



GDP
(billion USD)

\$63



Adult population
(millions)

27



Unique mobile
subscribership

60%



Financial account
ownership among
adults

75%



Financial account
ownership among
women

71%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

- Joined the Better Than Cash Alliance as a founding member²
- Received the highest score on the adoption dimension of the FDIP scorecard, primarily due to its considerable rates of mobile money adoption among low-income adults and women³
- Achieved a 50 percent increase in financial inclusion within the previous decade, according to a 2016 FinAccess household survey⁴



Recent updates

- In May 2017, the Central Bank of Kenya and the Kenya Bankers Association organized a conference titled "Financial Inclusion 2.0: Expanding Kenya's Digital Financial Ecosystem."⁵
- Also in May 2017, the Competition Authority of Kenya issued a directive requiring telecommunications entities and financial institutions providing mobile money services to notify customers about the price of transactions in real time.⁶
- In April 2017, the Safaricom network experienced an outage that disrupted mobile money service M-Pesa.⁷
- In February 2017, the government of Kenya debuted Huduma cards, a fintech initiative that aims to leverage partnerships with Mastercard and several prominent banks to help enroll more citizens in government services like health insurance, facilitate adoption of digital financial services among unbanked individuals, and streamline the distribution of the services.⁸



Next steps

- Enhance digital infrastructure to mitigate network challenges at agent locations, along with network outages
- Promote financial education and capability initiatives among underserved populations, including women, to broaden and deepen financial inclusion



MALAWI



OVERALL SCORE

61%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 83% |
| Mobile capacity | 67% |
| Regulatory environment | 83% |
| Adoption | 36% |



GDP
(billion USD)

\$6



Adult population
(millions)

9



Unique mobile
subscribership

26%



Financial account
ownership among
adults

18%



Financial account
ownership among
women

14%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

- Joined the Better Than Cash Alliance in June 2013²
- Established a number of measurable financial inclusion goals, including a target specific to women, within its national financial inclusion strategy³
- Issued Mobile Payment System Guidelines in 2011 and introduced agent banking in 2012⁴



Recent updates

- FHI 360, a nonprofit human development organization, worked with the Malawi Union of Savings and Credit Cooperatives to help introduce mobile money services as part of the Feed the Future Malawi Mobile Money project, which is supported by the U.S. Agency for International Development and other key stakeholders.^{5 6} The project's aims include testing platforms for expanding mobile money adoption (particularly among underserved groups), enhancing product development and service delivery pathways, and sharing "lessons learned for a more comprehensive evidence base for mobile money acceleration."⁷



Next steps

- Disseminate best practices from the Feed the Future Malawi Mobile Money project, when available
- Amplify coordination of financial literacy initiatives to drive increased adoption of formal financial services
- Monitor progress toward measurable financial inclusion goals

MEXICO



OVERALL SCORE

79%

DIMENSION SCORES

| | |
|------------------------|------|
| Country commitment | 100% |
| Mobile capacity | 94% |
| Regulatory environment | 83% |
| Adoption | 58% |



GDP
(billion USD)

\$1144



Adult population
(millions)

92



Unique mobile
subscribership

67%



Financial account
ownership among
adults

39%



Financial account
ownership among
women

39%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

- Created a national council on financial inclusion, the Consejo Nacional de Inclusión Financiera, in 2011²
- Conducted a national survey to assess financial inclusion in 2015³
- Released the latest national report on financial inclusion in April 2016⁴



Recent updates

- According to the GSMA, mobile money account-to-account interoperability is live in Mexico.⁵
- In February 2017, the Central Bank issued a regulation rendering it compulsory for all banks to offer a basic account for beneficiaries of government subsidies free of charge.⁶
- In June 2016, the National Council on Financial Inclusion released the National Financial Inclusion Plan.^{7 8}
- Also in June 2016, the government of Mexico joined the United Nations-based Better Than Cash Alliance.⁹



Next steps

- Advance implementation of the national financial inclusion plan



NIGERIA



OVERALL SCORE

74%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 94% |
| Mobile capacity | 83% |
| Regulatory environment | 89% |
| Adoption | 53% |



GDP
(billion USD)

\$487



Adult population
(millions)

102



Unique mobile
subscribership

46%



Financial account
ownership among
adults

44%



Financial account
ownership among
women

34%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

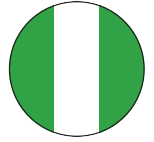
- Launched a national financial inclusion strategy in 2012²
- Published guidelines on agent banking in February 2013³
- Released new guidelines on mobile money services in April 2015⁴



Recent updates

- In May 2017, Paga and Nigerian Postal Service (NIPOST) announced a partnership aimed at making financial services accessible to all Nigerians by leveraging NIPOST offices across the country as financial service access points. This effort will build off the “shared agent network” framework approved by the Central Bank of Nigeria.⁵
- While the Central Bank of Nigeria initiated a nationwide rollout of a cashless policy on April 1,⁶ 2017, digital financial services expert Dr. Olayinka David-West noted that the policy was reversed in 30 states by April 21.⁷ Experts such as Dr. David-West have stated that these reversals may have implications for consumers’ trust in the formal financial ecosystem, in addition to operational and technological costs.
- The Central Bank of Nigeria and other stakeholders have developed a financial education curriculum that is expected to be launched in September 2017.⁸ This announcement was made during Global Money Week,⁹ held from March 27-April 2, 2017.¹⁰
- A March 2017 article noted that Women’s World Banking, with support from The Bill & Melinda Gates Foundation, is partnering with Diamond Bank and telecommunications company MTN to enhance understanding of what factors help digital financial services (DFS)—and particularly Diamond’s “Y’ello” service—work well for low-income women.¹¹
- In December 2016, the Lagos Business School released “Digital Financial Services in Nigeria: State of the Market Report 2016,” which provides an overview of the financial inclusion landscape in Nigeria, particularly with respect to adoption of DFS.¹² The report found that barriers to DFS adoption include “low economic activity amongst the underbanked and unbanked, lack of awareness, product-needs gaps, product complexity, utility cost and usage difficulty.”¹³

(continued next page ►)



Nigeria

- Also in December 2016, *Business Day*, the Bill & Melinda Gates Foundation, and McKinsey Global Institute held a Financial Inclusion Summit, which focused on the potential impact of digital financial services.¹⁴
- According to the Governor of the Central Bank of Nigeria, Godwin Emefiele, increased adoption of DFS could lead to the creation of three million jobs by 2025.¹⁵ Another aim of the government related to increased adoption of DFS is a 90 percent reduction in the cost of providing formal financial services.¹⁶



Next steps

- Assess super-agent approval processes and engagement with super-agent networks to determine effectiveness in contributing to financial inclusion
- Continue to foster dialogue among financial service providers, technology companies, public sector entities, and mobile network operators (MNOs) regarding the best pathways to leverage the strengths of entities such as MNOs with respect to financial inclusion
- Amplify financial literacy and education efforts to address low awareness regarding digital financial service



PAKISTAN



OVERALL SCORE

69%

DIMENSION SCORES

| | |
|------------------------|------|
| Country commitment | 100% |
| Mobile capacity | 83% |
| Regulatory environment | 89% |
| Adoption | 36% |



GDP
(billion USD)

\$271



Adult population
(millions)

123



Unique mobile
subscribership

48%



Financial account
ownership among
adults

13%



Financial account
ownership among
women

5%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

- Introduced “Level 0” risk-proportionate accounts in 2011 to facilitate access to formal financial services among underserved populations²
- Launched the National Financial Inclusion Strategy in May 2015³
- Joined the Better Than Cash Alliance in September 2015⁴



Recent updates

- An April 2017 article noted that the government of Pakistan had recently announced the launch of the Pakistan Financial Inclusion and Infrastructure Project, with funding of USD 130 million provided by the International Bank for Reconstruction and Development and the International Development Association. Three organizations in Pakistan will implement the project: the Pakistan Microfinance Investment Company, National Savings, and the State Bank of Pakistan’s development finance group. The project aims to advance financial inclusion by promoting access to digital payments among businesses and households, as well as advancing access to credit for micro- and small and medium-sized enterprises.⁵
- In February 2017, Finance Minister Ishaq Dar emphasized that the government aimed to facilitate broadband capability to all uncovered areas by the following fiscal year in order to support the government’s financial and digital inclusion goals.⁶
- During the Digital Banking and Mobile Payments Summit held in February 2017, a representative of the State Bank of Pakistan stated that the Bank is working to introduce a category of “digital bank” that will incorporate new and emerging technologies through a financial services entity.⁷
- During a World Economic Forum meeting held in January 2017, Mastercard announced it was collaborating with Pakistan’s NADRA Technologies to help “optimize national ID cards with electronic payments functionality.” This effort will allow citizens to “carry out financial transactions and receive government disbursements by utilizing the unique 13-digit identification number of their identity card,” as well as use their ID to send and receive remittances.⁸

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Pakistan

- In October 2016, the Pakistan Post and Karandaaz Pakistan signed a partnership agreement to digitize money order services at Pakistan Post. According to the terms of the agreement, Karandaaz Pakistan will provide technical support in developing a new product called the “mobile money order,” which will be made available through Pakistan Post.⁹



Next steps

- Promote registration of mobile wallet accounts to deepen usage of diverse financial services
- Advance implementation of the Pakistan Financial Inclusion and Infrastructure Project
- Enhance broadband infrastructure to support digital and financial inclusion



PERU



OVERALL SCORE

72%

DIMENSION SCORES

| | |
|------------------------|------|
| Country commitment | 100% |
| Mobile capacity | 72% |
| Regulatory environment | 100% |
| Adoption | 44% |



GDP
(billion USD)

\$189



Adult population
(millions)

23



Unique mobile
subscribership

72%



Financial account
ownership among
adults

29%



Financial account
ownership among
women

22%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

- Joined the Better Than Cash Alliance as a founding member²
- Approved the Comisión Multisectorial de Inclusión Financiera in 2014, which then designed the country's national financial inclusion strategy, published in July 2015³
- Publicly launched the "Bim" mobile wallet as part of the Modelo Perú partnership in February 2016⁴



Recent updates

- An April 2017 article noted that Bim mobile wallet users were expected to have access to more sophisticated mobile offerings such as microcredit, micro-insurance and micro-savings in the near future.⁵
- In January 2017, the Center for Financial Inclusion at Accion published a brief on Modelo Perú, the payments initiative that established the interoperable nationwide payments platform Bim. The brief highlighted that while the model's design is highly innovative, there were more challenges than expected, and the results did not meet initial projections. For example, the brief highlighted that a limited number of transactions (e.g., person-to-person payments) have been conducted within the platform.⁶
- To help advance adoption of Bim services among rural and unbanked or underbanked communities, the company that runs Bim, Pagos Digitales Peruanos (PDP), is working with Bitel, the smallest and last mobile network operator to join the platform, to participate in the platform and thus expand mobile coverage for current and prospective users. Moreover, PDP is implementing pilots in Cusco and Piura, cities with "limited infrastructure and banking agents," to try to better understand barriers to adoption of the service.⁷
- PDP is also working with Ericsson, a communications technology company, and select banks to "allow for Bim transactions to be incorporated into the banks' own [point of sale] systems," which may increase adoption rates by enabling agents to use systems that are more familiar to them than mobile phone-based systems.⁸



Next steps

- Advance mobile capacity (e.g., by augmenting 3G network coverage) to strengthen the foundation for adoption of mobile financial services
- Incorporate lessons learned from the first year of Bim to strengthen the service and broaden access for underserved customers

PHILIPPINES



OVERALL SCORE

76%

DIMENSION SCORES

| | |
|------------------------|------|
| Country commitment | 100% |
| Mobile capacity | 94% |
| Regulatory environment | 100% |
| Adoption | 42% |



GDP
(billion USD)

\$292



Adult population
(millions)

69



Unique mobile
subscribership

74%



Financial account
ownership among
adults

31%



Financial account
ownership among
women

38%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

- Achieved the highest overall score among the FDIP countries in Asia²
- Launched a national financial inclusion strategy in July 2015³
- Instituted the National Retail Payment System Framework in 2015⁴



Recent updates

- In May 2017, Nestor Espenilla, then-deputy governor of the Bangko Sentral ng Pilipinas (BSP), was named to replace then-BSP Governor Amando Tetangco in July 2017.⁵
- Also in May 2017, a representative of the BSP indicated that the BSP would present a set of recommendations to a steering committee that are based on the findings of the 2014 Consumer Finance Survey that generated data on the “financial conditions of households” in the Philippines.⁶
- The BSP is working with the national government regarding the implementation of a government-run biometric-based identity system aimed at providing more efficient and equitable government services, including financial services.⁷
- The BSP has issued a series of circulars aimed at supporting digital financial inclusion. Examples include circulars that enhanced regulations for pawnshops, remittance agents, and other transfer companies that facilitate access to basic financial services; allowed banks to use third party cash agents to help expand access to financial services; and permitted certain institutions to implement reduced know-your-customer rules for low-risk accounts.⁸
- The Philippines’ first “Economic and Financial Literacy Week” was held from November 7-11, 2016. This effort was in keeping with the Republic Act No. 10922 (The Economic and Financial Literacy Act of 2015).⁹
- In December 2016, the BSP indicated that it would establish “knowledge resource networks” by February 2017 to help improve the public’s understanding of economic and financial concepts.¹⁰
- In June 2016, Executive Order No. 208 facilitating the Establishment of the Financial Inclusion Steering Committee, was signed by President Aquino.¹¹
- Between June 2012 and June 2016, the percentage of local government units with microbanking offices grew by 105 percent, according to the BSP.¹²

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Philippines



Next steps

- Operationalize the recommendations of the steering committee regarding the findings of the 2014 Consumer Finance Survey
- Leverage the findings of the BSP's "Financial Inclusion Initiatives 2015" report, as well as the National Baseline Survey on Financial Inclusion and other studies, to identify underserved customers and target financial inclusion initiatives toward those customer segments
- Monitor and assess the efficacy of the new knowledge resource networks

RWANDA



OVERALL SCORE

76%

DIMENSION SCORES

| | |
|------------------------|------|
| Country commitment | 94% |
| Mobile capacity | 83% |
| Regulatory environment | 100% |
| Adoption | 50% |



GDP
(billion USD)

\$8



Adult population
(millions)

7



Unique mobile
subscribership

53%



Financial account
ownership among
adults

42%



Financial account
ownership among
women

35%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

- Joined the Better Than Cash Alliance in 2014²
- Reduced financial exclusion among adults age 16 and older from 17 percentage points between 2012 and 2016, according to a 2016 FinScope survey³
- Implemented mobile money interoperability in 2015⁴



Recent updates

- A May 2017 article noted that the Rwanda Development Board and Mastercard announced a partnership at the 2016 World Economic Forum on Africa.⁵ The shared project, called SIKASHI, aims to digitize state services to promote transparency and digital financial inclusion.⁶
- At the World Economic Forum on Africa held from May 3-5, 2017, the World Economic Forum, in collaboration with the central banks of Kenya, Rwanda, and Tanzania, announced a project focused on financial inclusion in East Africa.⁷ The initiative will “focus on youth empowerment, the gender gap in Africa, and financing micro, small and medium-sized enterprises through responsible data capture and credit analytics.”⁸
- A January 2017 article noted that the mVisa payment system, led by KCB Bank Rwanda, was close to being rolled out and was expected to help reduce transaction costs and expand digital financial inclusion.⁹
- An October 2016 article explained that Rwanda had instituted the RSwitch, the first payment switch in East and Central Africa to achieve interoperability.¹⁰
- According to the Economist Intelligence Unit’s 2016 Global Microscope report, the government of Rwanda set a goal to have all savings and credit cooperatives’ operations digitized by the end of 2016.¹¹



Next steps

- Develop a comprehensive financial consumer protection framework
- Provide updates on the status of digitization across savings and credit cooperatives
- Share updates regarding the SIKASHI effort and identify key learnings from the project



SOUTH AFRICA



OVERALL SCORE

78%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 83% |
| Mobile capacity | 94% |
| Regulatory environment | 67% |
| Adoption | 72% |



GDP
(billion USD)

\$315



Adult population
(millions)

39



Unique mobile
subscribership

69%



Financial account
ownership among
adults

70%



Financial account
ownership among
women

70%



Formal commitment milestone

- Joined the Alliance for Financial Inclusion in 2010¹



Selected financial inclusion highlights

- Among the top five-scoring countries overall on the 2017 FDIP scorecard²
- Tied for the highest mobile capacity score among the FDIP countries³
- Initiated a Standing Committee on Finance in parliament to address financial sector transformation issues, including inclusion and access⁴



Recent updates

- A report by The Boston Consulting Group (BCG) published in April 2017 found that while 70 percent of the population in South Africa has access to a transactional bank account, usage is quite low.⁵ Moreover, the savings rate in South Africa is among the lowest in the world.⁶ However, experts note that this rate does not capture the significant role of informal savings.⁷
- One of the positive findings of the BCG report was that financial inclusion percentages are relatively consistent among men and women.⁸ This finding related to the “gender gap” in financial inclusion was supported by a recent FinMark trust report that found a positive gender gap of six percent between women and men in terms of bank account holdings, which can be explained in part by the large adoption of social grants among women.⁹
- The Financial Sector Regulation Bill, which features financial inclusion among its objectives, was approved by South Africa’s parliament in the fall of 2015 and was expected to be enacted by the end of 2016 or early 2017 after it was signed by President Zuma.¹⁰
- The Economist Intelligence Unit noted in its 2016 report that the “ongoing shift from rules-based to risk-based supervision is already having an impact on financial inclusion, as banks and other financial service providers become more risk-averse and therefore less likely to extend credit to low-income consumers, who are deemed higher risk.”¹¹
- In July 2016, the South African Reserve Bank approved the SA Post Office’s first level application for a banking license for Postbank, which will enable it to offer banking services beyond the transactional and savings products it currently offers.¹²
- Fintech is increasingly prevalent in South Africa, and a fintech regulatory framework is expected to form part of the Conduct of Financial Institutions Bill in 2017.¹³



South Africa



Next steps

- Monitor the rise in unsecured lending and consider how to best mitigate the risk of over-indebtedness, without precluding low-income consumers from accessing the services they need to support their well-being
- Amplify opportunities for multi-stakeholder discussions on pathways to advancing sustained engagement with and equity in the financial sector, including the possible formalization of select informal financial service providers
- Ensure any modifications to anti-money laundering/countering the financing of terrorism guidelines and policies reflect a risk-proportionate approach



TANZANIA



OVERALL SCORE

68%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 94% |
| Mobile capacity | 72% |
| Regulatory environment | 89% |
| Adoption | 42% |



GDP
(billion USD)

\$46



Adult population
(millions)

29



Unique mobile
subscribership

43%



Financial account
ownership among
adults

40%



Financial account
ownership among
women

34%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

- Instituted the National Financial Inclusion Framework in 2013²
- Launched mobile money interoperability across mobile network operators' platforms in 2014³
- Updated national financial inclusion target to 80 percent of adults using a financial access point by 2017, given that Tanzania surpassed its initial goal of 50 percent access⁴



Recent updates

- At the World Economic Forum on Africa held from May 3–5, 2017, the World Economic Forum, in collaboration with the central banks of Kenya, Rwanda, and Tanzania announced a project focused on financial inclusion in East Africa.⁵ The initiative will “focus on youth empowerment, the gender gap in Africa, and financing micro, small and medium-sized enterprises through responsible data capture and credit analytics.”⁶
- A November 2016 article highlighted that the National Microfinance Bank had partnered with Tigo Tanzania and Airtel Money to help address liquidity management problems among agents.⁷
- A report⁸ published in October 2016 titled “Tanzania Postal Bank: Digital Financial Inclusion Through Popote” noted that, among other lessons learned, there is an advantage to leveraging several channels (e.g., mobile banking and agency banking) and device options (e.g., mobile phone and point of sale devices) to fit different client segments.⁹
- In September 2016, the Bank of Tanzania was awarded the leadership and peer awards by the Alliance for Financial Inclusion.¹⁰
- From August 8–12, 2016, CGAP and the Toronto Centre piloted the first week-long Digital Finance Inclusion Supervision training program, in which regulators, supervisors, economists, and other key stakeholders from countries such as Tanzania—as well as several other FDIP countries such as Kenya, Malawi, Uganda, and Zambia—drafted and discussed action plans pertaining to issues such as e-money balances, interest on trust accounts, interoperability, and supervision of banks' and nonbanks' agent networks.¹¹



Next steps

- Develop a comprehensive national financial consumer protection framework
- Continue to implement financial education and capability initiatives as part of the new National Financial Education Framework

TURKEY



OVERALL SCORE

73%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 89% |
| Mobile capacity | 83% |
| Regulatory environment | 67% |
| Adoption | 64% |



GDP
(billion USD)

\$718



Adult population
(millions)

58



Unique mobile
subscribership

63%



Financial account
ownership among
adults

57%



Financial account
ownership among
women

44%



Formal commitment milestone

- Joined the Alliance for Financial Inclusion in 2013¹



Selected financial inclusion highlights

- Developed a new consumer protection law in 2013²
- Launched a national financial inclusion strategy in 2014³
- Recognized by the Alliance for Financial Inclusion and Women's World Banking's March 2016 report on "Policy Frameworks to Support Women's Financial Inclusion" as including a focus on women within its comprehensive financial literacy program⁴



Recent updates

- According to the Economist Intelligence Unit's 2016 "Global Microscope" report, the action plans on financial education and financial consumer protection, which serve as the two key pillars of the government's financial inclusion strategy, are in the process of being implemented.⁵



Next steps

- Establish inclusive agent banking guidelines to facilitate greater distribution of financial access points in underserved areas
- Consider developing quantifiable financial inclusion targets to further advance the national financial inclusion strategy
- Continue to implement the action plans on financial education and financial consumer protection



UGANDA



OVERALL SCORE

78%

DIMENSION SCORES

| | |
|------------------------|------|
| Country commitment | 100% |
| Mobile capacity | 78% |
| Regulatory environment | 67% |
| Adoption | 58% |



GDP
(billion USD)

\$28



Adult population
(millions)

20



Unique mobile
subscribership

42%



Financial account
ownership among
adults

44%



Financial account
ownership among
women

37%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

- Established an updated target developed under the Sasana Accord to increase the percentage of the adult population that is considered formally financially included from 54 percent as of 2013 to at least 70 percent by 2017²
- Created a joint working group on Mobile Money Financial Services and issued mobile money guidelines in October 2013³
- Passed and approved amendments to the 2004 Financial Institutions Act in January 2016, which enabled the formalization of agent banking⁴



Recent updates

- As highlighted by a February 2017 World Bank post, opportunities remain to strengthen financial access, usage, and education.⁵ As noted in the post, “[u]p to 60% of adult Ugandans still keep their savings at home and in the form of assets such as animals. Moreover, a much larger share of the population, reaching more than 65%, are unable to access formal financial institutions for credit. This proportion of the population relies on informal sources of finance or their own, their families’, or their friends’.”⁶
- The Bank of Uganda received a grant from the Alliance for Financial Inclusion to support the development of a new National Strategy for Financial Inclusion, which at the time this report was prepared was expected to be launched and implemented soon.^{7 8}
- A new FinScope survey is being prepared,⁹ and results are expected in 2018.¹⁰



Next steps

- Strengthen oversight of financial sector to mitigate the risk of fraud and promote consumer confidence
- Assess the findings of the latest FinScope survey, when available, and identify action items to address remaining gaps in the financial services market
- Finalize and validate the new national financial inclusion strategy

VIETNAM



OVERALL SCORE

64%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 72% |
| Mobile capacity | 83% |
| Regulatory environment | 67% |
| Adoption | 50% |



GDP
(billion USD)

\$194



Adult population
(millions)

71



Unique mobile
subscribership

76%



Financial account
ownership among
adults

31%



Financial account
ownership among
women

32%



Formal commitment milestone

- Joined the Better Than Cash Alliance¹



Selected financial inclusion highlights

- Published a national microfinance development strategy in 2011²
- Granted trial licenses for mobile wallet initiatives in December 2014³
- Exhibits robust unique mobile subscribership and 3G coverage rates⁴



Recent updates

- According to the Economist Intelligence Unit's 2016 "Global Microscope" report, the Vietnam Bank for Social Policies (VBSP) commissioned a study on demand for mobile services and e-money among low-income workers and other underserved groups. The study found that the legal and technical frameworks needed to launch pilot programs are in place, so the VBSP is "working on selecting an implementation model and strategic partners to launch mobile-based banking services."⁵



Next steps

- Amplify marketing efforts surrounding mobile money services to improve awareness among consumers
- Develop a national financial inclusion strategy
- Execute the mobile-based banking services implementation model



ZAMBIA



OVERALL SCORE

67%

DIMENSION SCORES

| | |
|------------------------|-----|
| Country commitment | 94% |
| Mobile capacity | 78% |
| Regulatory environment | 78% |
| Adoption | 42% |



GDP
(billion USD)

\$21



Adult population
(millions)

9



Unique mobile
subscribership

54%



Financial account
ownership among
adults

36%



Financial account
ownership among
women

33%



Formal commitment milestone

- Committed to the Maya Declaration in 2011¹



Selected financial inclusion highlights

- The 2015 FinScope survey highlighted the role of mobile money in amplifying financial inclusion, with about 14 percent of adults having or using mobile money²
- Published the National Payment Systems Directives on Electronic Money Issuance in 2015³
- Launched the Financial Inclusion Support Framework, in conjunction with the World Bank, in November 2015⁴



Recent updates

- Zambia held Financial Literacy Week from March 27-April 2, 2017 in an effort to “educate and sensitize the general public about various topics on financial education” as part of its National Strategy on Financial Education.⁵
- Mobile money company Zoono was recognized at Zambia’s Financial Literacy Awards for its new product, Zoono Sunga. The savings product, which was launched in March 2017, is accessible to customers at any Zoono outlet in Zambia and has no monthly charges, no minimum balance, and no fee to cash-in (there is a small fee to cash out).⁶



Next steps

- Advance awareness of digital financial services such as mobile money through collaborative initiatives by representatives from the public sector, private sector, and civil society entities
- Continue to monitor adoption of mobile money services
- Fully implement branchless banking regulations

METHODOLOGY

Research process

Timeline for data collection

Selected financial inclusion developments from June 2016 through the end of May 2017 are captured in the 2017 country summaries and scorecard. While we have made every effort to ensure that the information included in this report is as complete as possible, the global financial inclusion landscape is complex and rapidly evolving. We welcome feedback on country-specific initiatives relevant to financial inclusion, as well as general feedback regarding the 2017 report and scorecard, at FDIPComments@brookings.edu.

Engagement strategy

We benefited from high levels of engagement among many of the in-country financial inclusion experts we reached out to during the consultation process for the 2017 report. We are deeply grateful for their insights regarding the financial inclusion landscape in their respective countries.

In addition to coordinating with in-country financial inclusion authorities, we engaged with a diverse array of financial sector and development experts based in the United States through in-person meetings, calls, and participation in private and public events in order to solicit their perspectives on financial inclusion trends, challenges, and opportunities.

For a list of many of the government officials, industry leaders, international finance institution representatives, and other key stakeholders who have contributed to the FDIP research effort over the previous year, please refer to the acknowledgments section of the report. In-country reviewers were provided with a list of selected financial inclusion developments tracked since spring 2016. We solicited their feedback regarding those key developments, as well as their input regarding any other salient financial inclusion updates since spring

2016 and feedback on the 2015 and 2016 FDIP research outputs more generally.

In addition to outreach to in-country experts, the FDIP team hosted a roundtable at Brookings and participated in various financial inclusion convenings. The roundtable, held in February 2017, provided an opportunity for a diverse array of public sector, private sector, and civil society representatives to explore questions situated at the intersection of cybersecurity and financial inclusion.

This discussion, as well as the FDIP team's participation in private meetings, invite-only roundtables, and public events among diverse financial inclusion entities, informed and enhanced the research process for the current report.

Scoring descriptions

Country commitment indicator descriptions

1. National-level participation in international financial inclusion-oriented organizations or networks.

- Description: Has the country signed the Alliance for Financial Inclusion's Maya Declaration on Financial Inclusion or joined international groups such as the Better Than Cash Alliance or the G20's Financial Inclusion Peer Learning Program?
- Scoring: 1=No; 3=Yes
- Sources: Information for this indicator is based on the online membership listings for the Alliance for Financial Inclusion, the Maya Declaration on Financial Inclusion, and the Better Than Cash Alliance, as well as information regarding participation in the G20's Financial Inclusion Peer Learning Program.

2. Existence of a national financial inclusion strategy.

- Description: Does a comprehensive national financial inclusion strategy exist?
- Scoring: 1=No; 2=A national financial inclusion strategy is in development; 3=Yes
- Note: As noted in the Alliance for Financial Inclusion's "Financial Inclusion Strategies: Global Trends and Lessons Learnt from the AFI Network" presentation, comprehensive national financial inclusion strategies may be presented within a national financial sector development plan or as a stand-alone strategy.¹
- Sources: Information for this indicator was primarily derived from surveys of the Alliance for Financial Inclusion's "2016 Maya Declaration Progress Report: Celebrating Five Years of Advancing Financial Inclusion;" the Alliance for Financial Inclusion Financial Inclusion Strategy Peer Learning Group's "A Timeline of Achievement" and "National Financial Inclusion Strategies: Current State of Practice" documents; the Economist Intelligence Unit's "Global Microscope 2016: The Enabling Environment for Financial Inclusion;" evaluations of online content available from governmental and INGO websites; and information provided by government officials within select FDIP countries.

3. Existence of quantifiable financial inclusion targets.

- Description: Do formal, publicly available quantifiable goals related to financial inclusion exist at a national level?
- Scoring: 1=No; 3=Yes
- Note: While many countries have developed action items related to financial inclusion that contain general timelines for completion, this indicator specifically focuses on numerical targets. For the purposes of this study, macroeconomic goals, such as an increase in the percentage of

savings as GDP, and goals related solely to micro-finance (in the narrow sense of microloans) were not included in our evaluation of quantifiable financial inclusion goals.

- Sources: Information for this indicator was primarily based on the Alliance for Financial Inclusion's "2016 Maya Declaration Progress Report: Celebrating Five Years of Advancing Financial Inclusion," with surveys of governmental authorities' websites, news reports, INGO websites, and correspondence with country contacts deployed as supplementary data.
- ## 4. Existence of a recent demand-side financial services survey conducted or supported by a government entity.
- Description: Has a nationally representative, demand-side financial services survey been recently conducted or supported by a government entity within the country?
 - Scoring: 1=No; 3=Yes
 - Note: For purposes of this study, "recent" refers to surveys published within the previous four years (i.e., surveys published prior to 2013 are not considered recent). "Conducted or supported" in this context signifies that the government either commissioned the survey or was explicitly noted as a partner institution by the lead institution conducting the survey.
 - Sources: The predominant sources consulted for this indicator include the Alliance for Financial Inclusion's "2016 Maya Declaration Progress Report: Celebrating Five Years of Advancing Financial Inclusion" and the Economist Intelligence Unit's "Global Microscope 2016: The Enabling Environment for Financial Inclusion." Other supplementary sources include surveys of governmental authorities' and INGO's websites, as well as correspondence with government representatives in various FDIP focus countries.

5. Existence of a dedicated financial inclusion body within the public sector.

- Description: Does the country have a dedicated financial inclusion body within the regulator, ministry of finance, or other governmental entity?
- Scoring: 1=No; 2=A dedicated final inclusion body is in development; 3=Yes
- Note: Where a dedicated financial inclusion body was not in place, but evidence of dedicated staff coupled with active financial inclusion initiatives was available, we awarded a score of 3.
- Sources: The primary source consulted for this indicator was the World Bank's "Financial Inclusion Strategies Database," which features more than 50 countries that have either "made formal commitments under the Alliance for Financial Inclusion's Maya Declaration or have been identified by the Financial Inclusion Strategy Peer Learning Group as having significant national strategies."² Supplementary sources include searches of governmental websites, a review of the Alliance for Financial Inclusion's "2016 Maya Declaration Progress Report: Celebrating Five Years of Advancing Financial Inclusion," and correspondence with government representatives.

6. Existence of a consumer protection framework regarding financial services.

- Description: Is a financial consumer protection framework in place?
- Scoring: 1=No; 2=A specialized financial consumer protection framework is in development or finalized but not yet fully implemented OR certain financial consumer protection provisions are in place; 3=A financial consumer protection framework is in effect.
- Sources: The primary source consulted for this indicator was the Economist Intelligence Unit's "Global Microscope 2016: The Enabling Environment for Financial Inclusion." Supplementary sources included surveys of publicly available consumer protection regulations, news sources, and analyses from multinational organizations.

Mobile capacity indicator descriptions³

1. Market penetration with respect to unique subscribers.

- Description: GSMA Intelligence defines this indicator as "Total subscribers in the market divided by the total population at the end of the period, expressed as a percentage." As noted by the GSMA, "[s]ubscribers differ from connections such that a unique user can have multiple connections."⁴
- Scoring: 1=0-33%; 2=34-66%; 3=67-100%
- Source: GSMA Intelligence Database, 2017.

2. 3G mobile coverage by population.

- Description: "3G mobile coverage, expressed as a percentage of the total market population, at the end of the period," according to the GSMA.⁵
- Scoring: 1=0-33%; 2=34-66%; 3=67-100%
- Source: GSMA Intelligence Database, 2017.

3. Smartphone adoption.

- Description: According to the GSMA, this indicator is defined as "[s]martphone connections expressed as a percentage share of total connections (excluding M2M). It is not calculated as smartphone connections divided by total population."⁶
- Scoring: 1=0-33%; 2=34-66%; 3=67-100%
- Source: GSMA Intelligence Database, 2017.

4. Availability of bill payments via mobile money services.

- Description: Do mobile money service providers offer bill payment services?
- Scoring: 1=No; 3=Yes
- Source: GSMA Mobile Money for the Unbanked Deployment Tracker, 2017.

5. Availability of international remittances via mobile money services.

- Description: Do mobile money service providers offer international remittances?

- Scoring: 1=No; 3=Yes
- Source: GSMA Mobile Money for the Unbanked Deployment Tracker, 2017.

6. Availability of merchant payments via mobile money services.

- Description: Are merchant payments available via mobile money services?
- Scoring: 1=No; 3=Yes
- Source: GSMA Mobile Money for the Unbanked Deployment Tracker, 2017.

Regulatory environment indicator descriptions

1. Agent banking.

- Description: Can banks or other formal financial institutions contract with other legal entities to serve as agents to provide financial services?
- Scoring: 1=No; 3=Yes
- Sources: Sources used to score this indicator include the Economist Intelligence Unit's "Global Microscope 2016: The Enabling Environment for Financial Inclusion," surveys of country-specific legislation, news reports, INGO publications, and correspondence with in-country experts.

2. Inclusive ecosystem for mobile financial service deployment principals.

- Description: Are a diverse array of entities, including mobile network operators, eligible to apply for licenses or other formal approval from the regulator to lead mobile money deployments?
- Scoring: 1=No; 3=Yes
- Sources: Scoring for this indicator is based primarily on the Economist Intelligence Unit's "Global Microscope 2016: The Enabling Environment for Financial Inclusion," surveys of country-specific legislation, news reports, INGO publications, and correspondence with in-country experts.

3. E-money regulations.

- Description: Have regulations, policies, or other guidance concerning electronic money (e-money) been issued?
- Scoring: 1=No e-money regulations are in place or appear to be in development; 2=E-money regulations are in development; 3=E-money regulations have been issued.
- Sources: Scoring for this indicator is primarily based on analysis from the Economist Intelligence Unit's "Global Microscope 2016: The Enabling Environment for Financial Inclusion," in addition to surveys of relevant regulations on governmental websites and correspondence with government representatives.

4. Mobile money platform interoperability.

- Description: Is the capacity for mobile money platform interoperability required by the regulator or other financial inclusion authority and/or are mobile money platforms actively interoperable?
- Scoring: 1=No requirements concerning the capacity for platform interoperability have been issued by the regulator, and there is no evidence of interoperability; 2=Platforms are explicitly required to have the capacity for interoperability OR efforts to develop an interoperable platform have been advanced significantly; 3=Two or more mobile money platforms are actively interoperable.
- Note: While there are numerous types of interoperability, for the purposes of this study we focus on platform interoperability, in which mobile money platforms are interconnected so that a "customer with an account with one service provider can send or receive money to or from the account of a customer with a different service provider."⁸
- Sources: The predominant sources consulted for this indicator were surveys of regulations on governmental websites, news articles, INGO and industry publications, and correspondence with in-country experts. This research was supplemented with surveys of the Economist Intelligence

Unit's "Global Microscope 2016: The Enabling Environment for Financial Inclusion."

5. Account access and usage.

- Description: Are account opening and usage requirements (e.g., know-your-customer processes and minimum balance requirements) for savings products at regulated financial institutions conducive to the adoption of these products by underserved populations?⁹
- Scoring: 1=No/Somewhat; 3=Yes
- Sources: The Economist Intelligence Unit's "Global Microscope 2016: The Enabling Environment for Financial Inclusion" was the main resource consulted for this indicator. Correspondence with country contacts and reviews of country-specific regulations, INGO and industry reports, and news articles served as supplementary sources.

6. Cash-in/cash-out at agent locations.

- Description: Are agents permitted to perform both cash-in and cash-out services within the context of an inclusive regulatory environment?¹⁰
- Scoring: 1=Agents are not permitted to perform cash-in and cash-out services; 2=Agents are permitted to perform cash-in and cash-out services, but regulations constrain the entry of certain agents into the market; 3=Agents are permitted to perform cash-in and cash-out services within the context of an inclusive regulatory environment
- Sources: The Economist Intelligence Unit's "Global Microscope 2016: The Enabling Environment for Financial Inclusion" served as the main source for this indicator, in addition to surveys of news articles, websites of industry associations and financial service providers, correspondence with in-country experts, and studies conducted by non-government entities.

Adoption indicator descriptions¹¹

For each of the percentage indicators below, the scoring ranges have been normalized since the range of data

across all countries included in this study spanned a relatively narrow subrange. We normalized the data by taking the difference between the highest and lowest values across all countries in this study, and then dividing that range into three equal subranges, corresponding respectively to a score of 1, 2, and 3. For example, using this approach, for an indicator in which the raw data ranged from 50 percent for the worst-performing country to 79 percent for the best-performing country, countries with raw data scores from 50 percent to 59 percent would receive a "1," countries with raw data scores from 60 percent to 69 percent would receive a "2," and countries with raw data scores from 70 percent to 79 percent would receive a "3."¹²

The specific indicators we used to measure adoption are the following:

1. Formal financial institution account penetration among lower-income adults.

- Description: The 2014 Global Findex description for the data used for this indicator is "percentage of respondents who report having an account (by themselves or together with someone else) at a bank or another type of financial institution; having a debit card in their own name; receiving wages, government transfers, or payments for agricultural products into an account at a financial institution in the past 12 months; paying utility bills or school fees from an account at a financial institution in the past 12 months; or receiving wages or government transfers into a card in the past 12 months (income, poorest 40%, % age 15+)."
- Scoring: 1=5-22%; 2=23-40%; 3=41-58%

2. Formal financial institution account penetration among women.

- Description: The 2014 Global Findex description for the data used for this indicator "denotes the percentage of respondents who report having an account (by themselves or together with someone else) at a bank or another type of financial institution; having a debit card in their own name; receiving wages, government transfers, or payments for agricultural products into an account at a financial institution in the past 12 months;

paying utility bills or school fees from an account at a financial institution in the past 12 months; or receiving wages or government transfers into a card in the past 12 months (female, % age 15+).”

- Scoring: 1=3-24%; 2=25-47%; 3=48-69%

3. Borrowing from a financial institution.

- Description: The 2014 Global Findex description for the data used for this indicator is the percentage of adults who “borrowed any money in the past 12 months (by themselves or together with someone else) from a bank or another type of financial institution. This does not include the use of credit cards.”

- Scoring: 1=2-7%; 2=8-14%; 3=15-20%

4. Saving at a financial institution.

- Description: The 2014 Global Findex description for the data used for this indicator is the percentage of respondents who “report saving or setting aside any money in the past 12 months by using an account at a bank or another type of financial institution (% age 15+).”

- Scoring: 1=3-12%; 2=13-23%; 3=24-33%

5. Debit card use.

- Description: The 2014 Global Findex description for the data used for this indicator is “the percentage of respondents who report using their own debit card directly to make a purchase in the last 12 months (% age 15+).”

- Scoring: 1=0-13%; 2=14-28%; 3=29-42%

6. Credit card use.

- Description: The 2014 Global Findex description for the data used for this indicator is “the percentage of respondents who report using their own credit card in the past 12 months (% age 15+).”

- Scoring: 1=0-9%; 2=10-19%; 3=20-29%.

7. Percentage of adults utilizing online bill payments and purchases.

- Description: The 2014 Global Findex description for the data used for this indicator is the percentage of adults who reported “paying bills or making purchases online using the Internet in the past 12 months (% age 15+).”

- Scoring: 1=0-5%; 2=6-13%; 3=14-19%

8. Mobile money account penetration among lower-income adults.

- Description: The 2014 Global Findex description for the data used for this indicator is the “percentage of respondents who report personally using a mobile phone to pay bills or to send or receive money through a GSM Association (GSMA) Mobile Money for the Unbanked (MMU) service in the past 12 months; or receiving wages, government transfers, or payments for agricultural products through a mobile phone in the past 12 months (income, lowest 40%, % age 15+).”

- Scoring: 1=0-17%; 2=18-35%; 3=36-53%

9. Mobile money account penetration among women.

- Description: The 2014 Global Findex description for the data used for this indicator is the percentage of women who “personally us[ed] a mobile phone to pay bills or to send or receive money through a mobile money service in the previous 12 months or who received wages, government transfers, or payments for agricultural products through a phone in the previous 12 months.”

- Scoring: 1=0-17%; 2=18-37%; 3=38-55%

10. Mobile phone used to receive salary or wages (among recent wage-earners).¹⁵

- Description: The 2014 Global Findex description for the data used for this indicator reads “among respondents who reported receiving any money from an employer in the past 12 months in the form

of a salary or wages for doing work, percentage of adults who received salary or wages through a mobile phone in the last 12 months.”

- Scoring: 1=0-7%; 2=8-17%; 3=18-25%

11. Mobile phone used to make utility payments (among adults regularly making utility bill payments).¹⁴

- Description: The 2014 Global Findex description for the data used for this indicator “denotes, among respondents reporting personally making regular payments in the past 12 months for water, electricity, or trash collection, the percentage who made

these payments through a mobile phone (% paying utility bills, age 15+).”

- Scoring: 1=0-17%; 2=18-37%; 3=38-55%

12. Frequency of account usage.¹⁵

- Description: The 2014 Global Findex description for the data used for this indicator is “the percentage of respondents with an account at a bank or another type of financial institution who report that money is withdrawn from their account three or more times in a typical month (% with an account, age 15+).”
- Scoring: 1=3-12%; 2=13-22%; 3=23-32%

APPENDIX: SCORING CHANGES

The table below indicates the percentage point difference in countries' percentage scores between 2016 and 2017. Note that the adoption dimension is not included in the table, as the indicators and scores for that dimension remained consistent between 2016 and 2017.

| Country | △ Overall Score | △ Country Commitment Score | △ Mobile Capacity Score | △ Regulatory Environment Score |
|---------------------------|-----------------|----------------------------|-------------------------|--------------------------------|
| Afghanistan | 6 | 17 | 6 | 6 |
| Bangladesh | 0 | 0 | 0 | 0 |
| Brazil | 1 | 0 | 6 | 0 |
| Chile | 0 | 0 | 0 | 0 |
| Colombia | -1 | 0 | -5 | 0 |
| Dominican Republic | 2 | 11 | 0 | 0 |
| Egypt | 4 | 11 | 6 | 5 |
| El Salvador | 1 | 0 | 5 | 0 |
| Ethiopia | 1 | 0 | 5 | 0 |
| Haiti | 0 | 0 | 0 | 0 |
| India | 1 | 0 | 0 | 6 |
| Indonesia | 0 | 0 | 0 | 0 |
| Kenya | 2 | 0 | 6 | 0 |
| Malawi | 0 | 0 | 0 | 0 |
| Mexico | 5 | 6 | 11 | 5 |
| Nigeria | 2 | 0 | 5 | 6 |
| Pakistan | 0 | 0 | 0 | 0 |
| Peru | 3 | 0 | 16 | 0 |
| Philippines | 0 | 0 | 0 | 0 |
| Rwanda | 0 | 0 | 0 | 0 |
| South Africa | 0 | 0 | 0 | 0 |
| Tanzania | 0 | 0 | 0 | 0 |
| Turkey | 1 | 0 | 5 | 0 |
| Uganda | 0 | 0 | 0 | 0 |
| Vietnam | 3 | 11 | 5 | 0 |
| Zambia | 0 | 0 | 0 | 0 |

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- 11 Note that all scores for the indicators in the adoption dimension are based on data from the 2014 Global Financial Inclusion database (Global Findex).
- 12 In this example, the subranges are equal; however, for instances where this was not the case, the subranges were adapted so that the subranges at the high and low ends of the overall range were equal, while the middle subrange was slightly wider. See the individual indicator descriptions for further details.
- 13 2014 Global Findex data for this indicator was not available for Tanzania, Ethiopia, and Haiti. Our approach to missing numerical data was to assign the respective countries a composite indicator score comprising the average of all country scores for the indicator—therefore, for the percentage of wage earners who used a mobile phone to receive their salary or wages, Tanzania, Ethiopia, and Haiti each received a score of 1.
- 14 2014 Global Findex data for this indicator was not available for Malawi and Haiti. As noted above, our approach to missing numerical data was to assign the respective countries a composite indicator score comprising the average of all country scores for the indicator—therefore, for the percentage of adults who used a mobile phone to make utility payments (among adults who regularly made bill payments), Malawi and Haiti received a composite score of 1.
- 15 2014 Global Findex data for this indicator was not available for Afghanistan and Pakistan. As noted above, our approach to missing numerical data was to assign the respective countries a composite indicator score comprising the average of all country scores for the indicator—therefore, for the percentage of adults with an account at a bank or another type of financial institution who report that money is withdrawn from their account three or more times in a typical month, Afghanistan and Pakistan each received a composite score of 2.

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