Recent finance advances in information technology for inclusive development: a survey

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Abstract

The overarching question tackled in this paper is: to what degree has financial development contributed to providing opportunities of human development for those on low-incomes and by what information technology mechanisms? We survey about 180 recently published papers to provide recent information technology advances in finance for inclusive development. Retained financial innovations are structured along three themes. They are: (i) the rural-urban divide, (ii) women empowerment and (iii) human capital in terms of skills and training. The financial instruments are articulated with case studies, innovations and investment strategies with particular emphasis, inter alia on: informal finance, microfinance, mobile banking, crowdfunding, microinsurance, Islamic finance, remittances, Payment for Environmental Services (PES) and the Diaspora Investment in Agriculture (DIA) initiative.

JEL Classification: G20; I10; I20; I30; O10
Keywords: Finance; Inclusive Growth; Economic Development

1. Introduction

‘Output may be growing, and yet the mass of the people may be becoming poorer’ (Lewis, 1955). The celebrated ‘Capital in the 21st Century’ (Piketty, 2014) has re-ignited the debate surrounding “immiserizing growth”¹ (Bhagwati, 1958) and debunked Kuznets’ (1955, 1971) conjecture on an inverted U-shape nexus between inequality and industrialisation. The paradigm shift is consistent with a strand of the literature which underlines the need to clearly

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¹ Economic growth could be followed by considerable negative externalities and eventually produce disqualifying distribution in the fruits of economic prosperity. Such a scenario runs counters to Kuznets’ (1955, 1971) conjectures on an n-shape nexus between inequality and industrialisation.
articulate income-inequality in poverty-growth relationships (Kalwij & Verschoor, 2007; Thorbecke, 2013; Fosu, 2015). These include, among others: the instrumentality of growth elasticities in policy making (Adam, 2004); the critical dimension of inequality in poverty alleviation (Datt & Ravallion, 1992; Kakwani, 1993; Ali & Thorbecke, 2000) and the importance of inequality in growth elasticities of poverty (Easterly, 2000; Fosu, 2015; Ravallion, 1997). Hence, Piketty’s coverage of developed countries is broadly in line with the narratives in African countries (Fosu, 2008, 2009, 2010a, 2010b) and a broad sample of developing economies (Fosu, 2010c, Asongu, 2016).

While the debate on financial globalisation is still ongoing as opposed to that on trade liberalisation which has reached some moderate consensus², two important trends have characterised the phenomenon of globalisation over the past three decades: growing inequality and increasing international financial liberalisation (Azzimonti et al., 2014). There is evidence of this in both advanced and developing countries. For the former countries (i) Piketty (2014) and Atkinson et al. (2011) have documented soaring inequality while (ii) Abiad et al. (2008) and Obstfeld & Taylor (2005) have provided evidence of growing capital mobility. As for the developing economies (i) the imposed structural adjustment policies promoted financial openness (Batuo et al., 2010; Batuo & Asongu, 2015) and (ii) there is a consensus on growth inequality, with the exceptions of South East Asian and Latin American countries that have experienced low growth accompanied with lower inequality (Asongu, 2016)³. A notable trend of how increasing globalisation is related to finance and poverty is the liberalisation of the information and communication technology (ICT) sector. This has led to a (i) burgeoning pro-poor mobile phone penetration (Asongu, 2015a): (ii) pro-poor connection that is more significant in magnitude when mobile telephony is used for banking (Asongu & Nwachukwu,

² Whereas, the theoretical underpinnings of financial globalisation sustain the claim that this phenomenon is a means of efficient allocation of capital and international sharing of risks, there is a narrative in the literature not supporting the strand on more rewards in less-developed countries simply because they are rich in labour and scarce in capital (Kose et al., 2006; Henry, 2007; Kose et al., 2011). The countering strand attributes global financial instability to growing capital account openness (Stiglitz, 2000; Bhagwati, 1998; Rodrik, 1998; Motelle & Biekpe, 2015). Its anti-thesis questions the benefits of financial liberalisation in terms of stability in developed countries and economic prosperity in less developed nations (Fischer, 1998; Summers, 2000). It further claims that the whole idea of financial globalisation has the obscure motivation of extending the benefits of international trade to those with assets (Asongu, 2014a).

³ It should be noted that the comparison, which is for the last three decades, (1980-2010), may also contradict recent strands (1990-2010) on poverty reduction in Africa (Young, 2012) or the continent being on time for some Millennium Poverty Targets (Pinkivskiy & Sala-i-Martin, 2014). Accordingly, trends are contingent on sample periodicity: 1995-2010 versus 1980-2010 (see Fosu, 2015).
Hence, there is an apparent policy challenge of structuring recent advances in financial development for inclusive growth.


Exclusive growth is fundamentally driven by irrational financial policies (Li et al., 2011, p. 109) and inequality remains the principal challenge of 21st century capitalism (Brada & Bah, 2014). These have consolidated a growing strand of literature on inclusive financial development. In essence, the policy debate is fundamentally shifting away from the narrow focus of the finance-growth nexus to poverty mitigation. Instead, there is a growing concern in the development community about inequality and processes of distributing the rewards of the finance-growth interconnection.

Access to finance contributes substantially to enabling individuals to exploit new avenues. Such inclusive financial development has a great potential of creating opportunities for low-income and/or marginalised groups. Consequently, avenues that could be confined to certain social and economic classes are made more accessible to the underprivileged. While these issues have been substantially shown to be of prime importance in the United Nation’s (UN’s) post-2015 Sustainable Development Goals (SDGs) which are replacing the Millennium Development Goals (MDGs), to the best of our knowledge, we are unaware of a study that has systematically provided a review of recent advances in financial development for inclusive growth (United Nations: UN, 2013, pp. 7-13). This represents a substantial gap in the literature. Accordingly, the present exposition provides a survey of financial development instruments for poverty alleviation, reduction of inequalities and novel opportunities for growth.
This study therefore seeks to provide a comprehensive survey of the role of financial development in distributing the benefits of economic prosperity and information technology instruments by which some fundamental inequalities could be addressed or redressed. Its key contribution to the literature is to document recent advances in ways ‘information technology-driven’ financial progress could promote inclusive development. Moreover, we also concurrently discuss policy choices in this regard that would benefit more equitable income distribution. In a nutshell, the overarching question tackled in this paper is: to what degree has financial development contributed to providing opportunities of human development for those in the low-income strata and by what information technology mechanisms has it done so?

In order to address the highlighted issues, the analytical procedure consists of first situating concerns of non-inclusive development within the context of contemporary literature before reviewing studies on the recent information technology advances in finance for inclusive development. Discussion on the information technology innovations are structured along three principal themes. They are (i) the rural-urban divide, (ii) women empowerment and (iii) human capital in terms of skills and training. The financial instruments are then supported with case studies and investment strategies with particular emphasis on informal finance, microfinance, mobile banking, crowdfunding, microinsurance, Islamic finance, remittances, Payment for Environmental Services (PES) and the Diaspora Investment in Agriculture (DIA) initiative.

Information technology has been established to improve: living standards (Chavula, 2013); growth (Qureshi, 2013a; Levendis & Lee, 2013); welfare externalities (Carmody, 2013; Qureshi, 2013bc); life for all (Kivunike et al., 2011; Ponelis & Holmner, 2013ab); sustainable growth (Byrne, 2011) and banking sector development (Kamel, 2005) in developing countries. Whereas information technology has been documented to bring about social, economic and human development benefits, a systematic survey of how it has consolidated the role of finance in inclusive development is to the best of our knowledge still missing in the literature.

The concept of inclusive growth employed in this survey embodies both relative pro-poor and absolute pro-poor versions of the phenomenon. We resist engaging in the debate

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4 Stakeholders constitute the civil society and both broad (e.g. Islamic banking) and narrow (e.g. mobile banking) perspectives of financial development are considered.

5 To put in simple terms, absolute pro-poor growth is growth that benefits the poor via poverty reduction, while relative pro-poor growth benefits the poor through income-inequality mitigation. The interested reader can find more on the debate in Mlachila et al. (2014, p. 3–4).
over which version of inclusive growth is better and focus on a broader concept of pro-poor growth in the perspectives of Swamy (2010, p.56) and Ifzal (2007, p. 55) which entail, inter alia: economic wellbeing and equal opportunities. In the same vein, the conception of finance in the survey is tailored towards a strategy of inclusive growth which, according to Swamy consists of prioritising the development of inclusive financial systems that are socially and financially sustainable.

We also devote some space to consolidating this line of inquiry with some interesting views and stylized facts. World Hunger (2010) has argued that, the main cause of hunger and poverty in the world today is the underlying economic system which encourages a minority to control a vast majority of global wealth while the bottom billion is just left to survive. Income inequality has risen sharply over the past decade (Milanovic, 2011). According to Joseph Stiglitz: “There has been no improvement in well-being for the typical American family for 20 years. On the other side, the top one percent of the population gets 40 percent more in one week than the bottom fifth receive in a full year”. (Nabi, 2013, p.10). Some accounts sustain that the Top 1 percent have gained all the income from the recent economic recovery (Covert, 2015)\(^6\) or that the income of the Top 1 percent is projected to surpass that of the Bottom 99 percent by 2016 (Oxfam, 2015). Hence, there is an urgent “Need to design the right economic policies to enhance inclusiveness specially in the developing countries” (Nabi, 2013, p. 13)\(^7\). It includes, among others; the restoration of finance as a fundamental force for inclusive and sustainable development (Freeman, 2010).

The structure of the survey is organised by building on a fundamental understanding of how social and economic progress increase people’s capabilities/possibilities for enhancing their material and non-material wellbeing. Issues like the rural/urban divide, gender gap and human capital are discussed. There is also a clear articulation of how financial development can fundamentally transform the nature of social, political and economic opportunities in societies.

The rest of the paper is organised as follows. The methodology is discussed in Section 2. Section 3 focuses on the urban-rural divide. New financial instruments for empowering women are discussed in Section 4, whereas human capital in terms of skills and training is

\(^6\) Nabi (2013, p. 12) on the Global Housing crisis estimates that 100 million are homeless, 1.6 billion have substandard housing conditions and an estimated 3 billion people are expected to be live in slums by 2050.

\(^7\) Nabi (2013) is quoted both with respect to developed and developing countries. The three issues are selected because they represent some hard stylized facts on how financial development can substantially transform the nature of social and economic opportunities in societies.
reviewed in Section 5. New trends on financial informality, microfinance, crowdfunding, microinsurance and Islamic finance are covered in Section 6. Section 7 concludes.

2. Methodology of the Literature Survey

Papers used in the literature survey are collected after an extensive search from February 2015 to July 2016. Science Direct, Economic Papers (Econpapers), Economic Literature (Econlit), Research Papers in Economics (RePEc), Google Scholar and the mainstream Google search engine are examined for the relevant references. Irrespective of methodological underpinning and geographical focus, the base criteria for the selection of articles are recent information technology advances in finance for inclusive development.

The analytical approach for the relevant references consists of first, situating issues of exclusive growth in the context of the literature before reviewing recent financial inclusion advances. Retained financial innovations are structured along three themes, notably: the rural/urban divide, women empowerment and human capital in terms of skills & training. The financial instruments are articulated with case studies, innovations and investment strategies with particular emphasis, inter alia on: informal finance, microfinance, mobile banking, crowdfunding, microinsurance, Islamic finance, remittances, Payment for Environmental Services (PES) and the Diaspora Investment in Agriculture (DIA) initiative.

In choosing the relevant references, studies published in the past seven years are given priority in order to accommodate the contemporary emphasis of technological advances articulated by the inquiry. Some studies are not considered simply because their English versions are unavailable. In accordance with the ‘conceptual independence’ approach to literature surveys, we neither reject inquires investigated in different countries with the same methodology nor investigations devoted to a particular set of nations with different methodological underpinnings. However, we avoid the trap of repetition by using multiple references to substantiate homogenous and harmonious perspectives. This is the case when qualitative and quantitative views on a specific advancement in information technology for inclusive development are recurrent as the literature review unfolds.

It is important to note that there is no clear consensus in the literature on how studies for a literature survey should be collected. Whereas some authors in surveys have had a preference for one main observation per study (see Stanley, 2001), others have included all information that is available (see Florax et al., 2003). The analytical approach of this inquiry combines the two methods because we focus on direct and quantitative contributions of
selected papers to the literature, as well as on indirect contributions or qualitative narratives on advances in information technology. Within the framework of the survey, a direct contribution is an inquiry that entails an empirical assessment upon which there is an apparent causal relationship flowing from a technological advancement in finance to inclusive development. In the same vein, an indirect contribution to knowledge refers to a survey that establishes a relationship between technological advancement in finance and inclusive development without an empirical analysis clarifying a casual relationship.

Four main steps are adopted in this survey. Firstly, a pilot study is performed from which we gain insights into the major concerns about inclusive development. These include anxieties associated with the rural-urban divide, women empowerment, skills and training. Secondly, another pilot study enables us to have insights into recent technological innovations for inclusive development, namely: informal finance, microfinance, mobile banking, crowdfunding, microinsurance, Islamic finance, remittances, Payment for Environmental Services (PES) and the Diaspora Investment in Agriculture (DIA) initiative. These perceptions are supported by evidence extracted by using the following search engines, inter alia: ‘information technology for inclusive development’; ‘information technology for non-exclusive development’; ‘information technology for inclusive growth’; ‘information technology for quality of growth’; ‘information technology for quality of development’.

Thirdly, the literature survey is structured according to identified themes of inclusive development and recent information technology advances in finance. At this stage, a detailed survey of the literature is carried-out and the relevant references are categorised in the main strands identified in the second step. After this phase, the study is close to 30 000 words. Fourthly, we contrast and compare literature within and across strands in order to avoid repetition, enhance clarity and improve the flow of surveyed knowledge. The outcome of the fourth step is a synthesised narrative of less than 50% of the initial ‘word count’.

3. Financial Development and the Urban-Rural Divide

This section attempts to look at the challenges of managing rural/urban migration and sustainability of rural economies, with particular emphasis on: employment, production and distribution of food, support of cooperatives and small and medium sized enterprises (SMEs) and demand- and supply-side constraints in agricultural productivity.
Recent evidence suggests that traditional financial development would aggravate rural-urban inequality in the long-term in India (Tiwari et al., 2013, p. 151). This narrative is consistent with China because credit is available exclusively to the rich (Xuelong, 2012, p. 696). Hence, wider credit coverage is vital to reducing inequality. Aggregate poverty reduction substantially depends on rural-urban inequality in a broader sample of South Asian countries (Sehrawat & Giri, 2015). While the effect of financial deepening may not be clear-cut in Africa (Baliamoune & Lutz, 2005, p.1), in light of the conclusions of Xuelong, the relative concentration of financial institutions in urban areas of the African continent justifies a corresponding rural-urban income-inequality owing to less credit access in rural areas.

In light of heterogeneity in the benefits of financial development between developed and developing countries discussed above (Xuelong, 2012, p. 696), we critically evaluate both sets of countries. Section 3.1 discusses mobile/internet banking and rural development. Section 3.2 covers issues of coordinating rural-urban development and documents on how the financial system can be improved to mitigate corresponding concerns. Section 3.3 provides financial keys to tackling the rural-urban divide in developed countries.

3.1 Mobile and internet banking for rural development

Motivated by prior exposition on the need for more research to establish the link between mobile phones and development (Mpogole et al., 2008, p.71), Kliner et al. (2013) have shown that mobile phones improve health services for poor communities. Kirui et al. (2013, p. 141) have also established the positive role of mobile banking in poverty mitigation in rural areas: ‘We conclude that mobile phone-based money transfer services in rural areas help to resolve a market failure that farmers face; access to financial services’ (p. 141). Warren (2007) has noted that the underprivileged, especially those in rural communities stand to reap the highest benefits from technology. In some fast growing developing countries, in spite of efforts from mainstream financial establishments, ‘Telecommunication infrastructure growth especially mobile phone penetration has created an opportunity for providing financial inclusion’ (Mishra & Bisht, 2013, p.503). Singh (2012, p. 466) within the same framework of India is more direct in crediting ‘mobile banking’ for positive trends in financial inclusion. Baro and Endouware (2013) have shown that mobile phone related services contribute to socio-economic development in the rural areas of developing countries.

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8 The focus of the paper is on recent technologies. Hence, older technologies which are pro-poor are not considered. Hence it is not only mobile technologies that are addressing inclusive development.
Consistent with the recent stream of literature (Asongu, 2013a; Demombynes & Thegeya, 2012), the revolution of the mobile phone has substantially transformed the lives of many in developing countries by enabling basic access to phone-based finance in addition to communication facilities. According to the narrative, the substantial growth in mobile telephony has transformed cell phones into pocket-banks. Such has provided economic opportunities for a substantial part of the population which, due to low-income status and rural geographic location, has been previously excluded from financial services. As noted by Warren, rural citizens should benefit most from internet services because its availability would substantially lessen distance barriers in aspects like information acquisition and purchase of commodities. We discuss the impact of mobile/internet banking in alleviating the implications of rural-urban divide in three main strands: (i) employment, production and distribution of food; (ii) support for cooperative and small and medium sized enterprises (SMEs) and (iv) demand- and supply-side constraints in agricultural productivity.

Firstly, employment, production and food distribution are some of the dire challenges confronting rural communities in many developing countries. Many youth are migrating to urban areas in search for work because of substantial production and distribution constraints in the traditional agricultural sector. Hence, it is important to rethink new ways in which jobs could be created by producing and distributing food locally. Financial advances could help in storage, marketing and transportation. The absence of information on the highlighted issues represents a significant cost for rural farmers. Studies in Ghana have shown that access to market information by means of mobile telephony/banking could increase revenue by as much as 10 percent (E-agriculture, 2012, p. 6-9). Other examples include current applications in: India (Digital Green, e-Arik, e-Choupal, Honey Bee Network, ICAAP, IKSL, Intelligent, LifeLines India & mKisan), Kenya (iCow, KUZA Doctor & Ukulima.net), Egypt (VERCON & RADCON), Uganda (AgriNet Uganda Ltd), the Middle East (CropLife,) and Africa (CropLife, ESOKO & Satads). 

Secondly, support for cooperatives and small and medium sized enterprises (SMEs) centres around how mobile banking applications stimulate agricultural finance. There is growing evidence of village banking institutions in Costa Rica using such a medium to create solidarity groups that are financially-sustainable (Perez et al., 2011, p. 316). Community Credit Enterprises (CCE) also enables members to generate capital and buy shares to ensure sustainable business and credit models. As far as we know, Chan & Jia (2011) have provided one of the most interesting accounts of the role of mobile banking in easing rural finance and
mitigating inequality in financial services between rural and urban areas. According to the narrative, ‘mobile banking is an ideal choice for meeting the rural financial needs’ (p. 3) and has led to substantial improvements in agricultural-related loans (see Figure 1, p. 3) due to increasing ‘rates for bank transfers through mobile cell phones at commercial banks’ (Table 2, p. 5). This is consistent with the World Bank’s conclusions on mobile banking applications for rural and agricultural development (Qiang et al., 2011, pp. 14-26).

Thirdly, the examples provided in the first and second strands principally target the mitigation of demand- and supply-side constraints. These entail specific measures that promote agricultural productivity and growth such as mobile banking applications. In a nutshell, the fundamental question raised in this strand is whether mobile banking policies facilitate channels to markets which yield relatively higher returns to farmers in rural areas. In other words, the concern is how the rural population can escape the vicious cycle of reducing returns on agricultural capital and income growth. In summary, mobile phone/banking has enabled a better matching of demand and supply, especially among geographical markets. This matching exercise ultimately eliminates wastes (Muto & Yamano, 2009, p.1887; Aker & Fafchamps, 2010). In spite of above observations, Maurer (2008) has cautioned that policy has a very substantial role to play in rendering mobile banking services more inclusive.

3.2 Coordination of rural-urban development

Information technology can be harnessed to address poverty issues in urban areas (Omole, 2013) as well as community development concerns in rural areas (Breytenbacha et al., 2013). While a lack of proper rural-urban development coordination in certain developing countries results from many factors, it is fundamentally driven by irrational financial policies (Li et al., 2011, p. 109). Coordinating rural-urban development is important because, among others, it elevates the living standard and quality of farmers while at the same time develops human resources; promotes healthy agricultural development and enhances rural-urban integration. Some issues in coordination (of balanced rural-urban progress and industrial structure) include: longstanding concerns of rural/urban gaps (of consumption, expenditure and income), unstable agricultural culture and worries about statistical data and social development. Some factors restricting rural-urban migration coordination include: insufficient input in rural education, low agricultural capital, and scanty investment in rural fixed assets. As far as we have reviewed, two financial development policy suggestions advanced to
address the highlighted issues entail the promotion of financial policies innovation and financial system innovation.

In the first strand, there are at least three main reasons motivating the promotion of financial policy innovation for better rural/urban coordination. Firstly, a financial system should encourage and support funds for elementary schools by: providing guarantees for rural elementary education and providing more incentives for teachers to take positions in rural areas, amongst others. Secondly, consolidation of agricultural infrastructure with more financial inputs involves, inter alia, sound management of financial resources for poverty-alleviation and amelioration of a price-subsidy channel for agricultural commodities. Thirdly, the establishment of a financial system that is sympathetic to bridging the rural/urban divide requires innovation in supply models and improvement of management/supervisory practices.

For the second strand, it is important to promote the innovation of a financial system for proper coordination of rural/urban development because of lack of financial access to rural and agricultural communities. Most farmers are left to rely on unlicensed financial institutions offering credit facilities at exorbitant interest rates (Li et al., 2011, p.114). Hence, it is essential to consider farmer-specific features in the allocation of financial products. The following are some policy measures. Firstly, there is the need to reinvent rural financial institutions and adapt educational training to the corresponding innovations so that consistent services are delivered to the rural communities. Secondly, it is important to encourage new financial products which entail, among others: spreading of agricultural credit risks, encouraging the credit models that enhance industrialised management of agriculture and floating of joint bond SMEs focused on agriculture. Thirdly, improvement in financial system patterns, like rural networked insurance, mobile banking and construction of village trust.

Fourthly, enhancing channels via which agricultural credits are subsidised like special poor-farmer loans and rural low interest policy funds, among others.

One of the most interesting accounts on recent financial development for ‘leveraging the rural-urban nexus for development’ has been provided by the International Fund for Agricultural Development (IFAD, 2014a) in its first post-2015 policy brief. The report which begins by clearly pronouncing that “The world cannot afford a future where rural areas are synonymous with social and economic marginalization” (p.1), has documented three major advances in finance by which the objectives outlined in this Section can be achieved. These include: ‘Key findings from an IFAD-World Bank study of international remittance flows to
Asia’ (p. 4), ‘IFAD and payment for environmental services in Asia and Africa’ (p. 6) and ‘The Diaspora Investment in Agriculture (DIA) initiative’ (p. 8).

On the first point, some crucial findings by the IFAD-World Bank study have revealed that a significant chunk of remittances sent to developing countries is destined to rural areas. Hence, remittances are playing a comparatively larger role in financial inclusion relative to microfinance institutions. But the report cautions that for the inclusive benefits of such remittances to be fully exploited, remittance-receiving households should be provided with more options on how to use their money in order to substantially leverage the inclusive development effects of such financial inflows in their communities (E.g see Efobi et al. [2015] for the Nigerian experience). According to the recommendation, effective financial inclusion would require a substantial commitment to programmes of financial literacy support for recipient households. One of such externalities is the positive trend of food security by means of Diaspora remittances.

The second argument on payment for environmental services (PES), which includes restoration of watersheds and maintenance, constitutes a novel source of providing financing support for the management of assets by rural communities. The mechanism also provides some advantages to other communities and water users downstream. Recent advances of PES are evident in Africa (Guinea, Uganda, Kenya & Tanzania) and Asia (Indonesia, China, Vietnam, Philippines, Nepal & the Lao People Democratic Republic). The programmes are realised by the IFAD in conjunction with the World Agroforestry Center (ICRAF) for both continents, with the collaboration of the ‘Pro-poor Rewards for Environmental Services in Africa’ (PRESA) and the ‘Reward the Upland Poor of Asia for the Environment Services’ (RUPES).

The third idea concerns the Diaspora Investment in Agriculture (DIA) initiative. According to the narrative, remittances from the Diaspora destined for agriculture represents about four times the amount of official development assistance (ODA) intended for the same purpose. The DIA has been launched by the IFAD and the USA in recognition of the increasing diaspora role. This partnership intends to encourage diaspora engagement in sustained and inclusive domestic economic growth via agricultural investment. Leveraging this contribution by migrant workers has positive externalities like: creation of local jobs, discouragement of outward migration intentions and poverty reduction. The DIA inclusive objectives of coordinating rural/urban development are achievable along three main channels. They comprise (i) encouraging the global diaspora to invest in sustainable agricultural
projects with real potential to impact the lives of poor rural people’, (ii) enabling diaspora investors, diaspora organizations and actors on the ground to build the capacity necessary to undertake cross-border investments and gain access to markets for traditional products and (iii) stimulating agricultural production and reducing import dependency to enhance food security’ (IFAD, 2014a,p.8).

4. Financial Development and Women Empowerment

From a global perspective, in spite of a declining trend, women still generally have lower incomes than men (Weichselbaumer & Winter-Ebmer, 2005, p. 479). According to Demirguc-Kunt & Klapper (2013), access to formal financial institutions is 55 percent versus 47 percent for men and women respectively. While the issue of ‘gender gap in financial access’ is less apparent in developed countries (van Hulten, 2012, p. 266), women in developing countries face substantial constraints with unequal access to finance (GPFI, 2011, p. 34-46). Having documented evidence of differences between men and women in access to finance, it is interesting to engage how existing disparities can be mitigated. In what follows, we discuss the relevance of mobile/internet banking in developing countries and incentives that are instrumental for decreasing the gender gap.

4.1 Mobile and internet banking and women empowerment

There is growing evidence that mobile banking is increasing the social participation of women in marginalised societies. Corresponding channels of financial inclusion include, among others, strengthening of small businesses and household management. Consistent with Jonathan & Camilo (2008), Asongu (2015a) and Ondiege (2010, 2013), mobile banking has enabled women to have more access to finance, hence easing the mitigation of a gender-finance gap. The narrative maintains that mobile banking is providing previously unbanked women with more affordable mechanisms to financial access.

Accordingly, mobile banking could considerably help women in household budget management, especially when households are faced with unpredictable poverty-oriented negative externalities. In line with Al Surikhi (2012) and Asongu (2016), advantages include, among others: timely responses, more experience in coping with negative shocks and better financial management. In more elaborate terms, the authors argue that mobile banking enables women to accomplish the following outcomes.
Firstly, it reduces the probability of women incurring great losses because money can be easily transferred in order to timely respond to unforeseen negative shocks. Hence, potential costs associated with such negative externalities are mitigated. Some avenues of shock mitigation and better financial management require lower travelling costs, less trauma and more efficient responses. As an example, in situations where women are particularly vulnerable to concerns like death, illness, cost reduction and the saving of income, mobile banking could be very useful.

Another advantage of mobile and internet banking is ‘security amelioration’ for women through cost-reduction. For instance, evidence about their timely ability to reduce overnight hospital days through the quick dial of a phone to send and receive money is well documented. This quick ‘access to finance’ is crucially important in periods of desperation. Hence, mobile banking provides opportunities for (i) reducing unexpected occurrences, (ii) multi-tasking and (iii) time required to solve crises. In summary, some essential areas of gender equality are fostered with more positive signals in economic empowerment, health, safety, education and social inclusion.

We invite the interested reader to refer to Mishra & Bisht (2013, p. 505) and Ondiege (2010, p. 11) for country-specific models of financial inclusion linked to mobile banking. What is important to note for their effectiveness in empowering women is that, appropriate governance mechanisms are needed. For example, Ojo et al. (2012) have analyzed the livelihoods of women with access to mobile phones in Ghana to confirm this position (p. S30).

4.2 Other financial related incentives and policies for gender empowerment

Incentives that could bridge the gender gap with the help of mobile banking may involve business-to-business interactions among women. These policy interventions may include (i) mobile-health initiatives for children, (ii) fiscal incentives of specific nature, (iii) educational initiatives, (iv) targeted government rural/agricultural initiatives and (v) more broad use of mobile payments to females for earnings as nurses or family health visitors. There is considerable evidence of documented case studies supporting the effectiveness of mobile money in driving such financial inclusion. Some examples include ‘how mobile money can drive financial inclusion for women at the bottom of the pyramid (BOP) in Indian Urban Centers’ (Chavan et al., 2009, p. 475) and a review of ‘mobile phone, livelihoods and the poor in Sub-Saharan Africa’ (Porter, 2012, p. 241).
The IFAD (2014b) second policy brief on post-2015 rural development has particularly focused on promoting rural women empowerment. Projects to which finance can be channelled to empower women include self-help groups that have boosted the power of women in South Asia (p. 5) and farmers’ organisation in sub-Saharan Africa targeting sustainable agriculture (p. 7). More post-2015 insights can be found in IFAD (2015c) on sustainably boosting agricultural productivity and consolidating agricultural markets and, in IFAD (2014d), on strengthening risk management capacity and the resilience of rural households and smallholder farmers.

More targeted cases/studies through which gender financial inclusion can be enhanced include: ‘measuring gender performance in microfinance’ (Iskenderian, 2013); ‘adjustment of framework conditions by regulators and policy makers’ (Frickeinstein, 2013); ‘going beyond expectations to gender analysis’ (Ghosh & Berfond, 2013) and ‘banking on including women’ (Koning, 2013).

‘Valuing women’s knowledge and experience creates opportunities for the whole community’ (IFAD, 2014e, p. 7). Hence, it is important to stimulate the demand-side for the success of policies towards increasing female ‘access to finance’. IFAD has documented the following conclusions from ‘case studies’ for mobilizing a ‘gender advantage’. These are: ‘Promoting equitable access to adaptation knowledge for women and men is a key practical step for inclusive adaptation’; ‘Building on women’s knowledge and experience creates opportunities for the whole community’; ‘Investing in women brings economic returns for smallholder farmers’; ‘It is important to tackle women’s workloads, which are often greater than that of men’s and tend to increase as a result of climate change’; ‘Supporting women’s equal voice in decision-making about adaptation strategies is needed in the home, in the community and at the national and global levels’ (p. 6). In light of Ojo et al. (2012), the above can be achieved through more gender-specific policies targeting the use of mobile banking.

Other interesting case studies that have been documented by IFAD (2014e) are: ‘Nigeria: Dedicated support for women and young people’ (p.11); ‘Mali: Unlocking the capacities of different generations’ (p. 8); ‘Mauritania: Men and women working together’ (p. 10); ‘Kyrgyzstan: Alternative income sources’ (p.12); ‘Peru: Reduced workloads and

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9 The interested reader can find more information on ‘IFAD policy briefs on rural development in the post-2015 agenda’ on the following link:  http://www.un-ngfs.org/spip.php?article4502
transformed gender roles’ (p. 18); ‘Bolivia: Building on indigenous women’s knowledge’ (p. 7); ‘Bangladesh: Early warning systems’ (p. 9); ‘Swaziland: Women, unity and water’ (p. 13); ‘China: Access to clean energy’ (p. 17) and ‘India: Women’s self-help groups heard at climate policy forum’ (p. 15).

We now briefly describe some of the important actions and policies so far implemented in three main strands: (1) establishment of a supportive environment to enable female entrepreneurs to have access to financial services; (2) encouragement of efforts which identify, support and evaluate replication of referenced models aimed at consolidating financial services to female entrepreneurs and (3) tailoring of efforts towards gathering SME finance gender-disaggregated data (GPFI, 2011, p. 48-61).

The first strand on a supportive environment for female entrepreneurs involves: (i) developing diagnostics and strategies of country-specific nature to integrate gender perspectives into the agenda of financial development; (ii) establishing supportive regulatory and legal environmental framework; (iii) strengthening of the legal access of women to property because it augments asset control, ensures more oversight on collateral, strengthens their ability and incentivizes them to develop businesses; (iv) encouraging formalization; (v) expanding financial infrastructure like collateral registries and credit bureaus that mitigate borrowing cost and augment access to finance; (vi) consolidating SMEs access to alternative dispute resolution channels and minor court claims; (vii) enhancing the capacity building of financial institutions to improve service to female entrepreneurs; (viii) expanding research into more optimal ways of combining business training with financial access; (ix) designing effective channels for government support; (x) appointing national reference models to champion/lead female SMEs; (xi) constructing public-private dialogues that are inclusive by supporting women networks and (xii) providing specific goals and incentives for more procurement by the State of commodities for female-managed corporations.

In the second element, we are concerned with efforts towards identifying, evaluating and supporting the replication of successful models previously used to consolidate financial access to female entrepreneurs (p. 61). According to the narrative, recent advances have shown that actively focusing on female entrepreneurs could be very rewarding for commercial banks. In addition, there is an increasing need for more data on female-owned SMEs. Efforts

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10 The interested reader can find specific steps needed to address gender differences in economic rights on pages 58-59 (IFAD, 2014).
that have been devoted towards capturing and replicating these models are fundamental to enabling female-owned enterprises to get access to the finance that they require to expand their businesses. Moreover, providing incentives for commercial financial institutions to segregate their clients (especially those managing SMEs) and to tailor additional financial services towards tackling very specific female needs are important policy initiatives.

The third strand focuses on female disaggregated ‘SME finance data’, in a coordinated manner. Major advances include: (i) building reliable and consistently disaggregated data on gender access to finance and businesses; (ii) the need for national financial authorities to distinguish among categories of financial services in their data collection process; (iii) facilitating online registration and computerization of businesses and (iv) including differentiated gender queries into the national survey on access to finance (p. 61-62).

5. Financing Inclusive Human Capital: Skills and Training

The role of information technology is critical in education, social and human development (Shraima & Khlaifb, 2010; Gudmundsdottir, 2010; Nkansah & Urwin, 2010; Negash, 2010; Brunello, 2010; Krauss, 2013). The knowledge economy (KE) has been documented to be vital for inclusive development (Lustig, 2011; Asian Development Bank, 2014). Accordingly, KE is pro-poor because it reduces inequality (Asongu, 2014b), especially through the instrument of mobile telephony (Asongu, 2015a). But given the broad concept of KE, we decided not to include all its four components, notably: (i) education, (ii) information and communication technology (ICT), (iii) economic incentives and (iv) institutional regime and innovation. Hence, we limit our discussion in this section exclusively to education or human capital in terms of skills and training.

According to the Asian Development Bank (ADB, 2014, p. 68), inclusive education in terms of skills and training entail the following: (i) increasing avenues for skills and education in technology, sciences, mathematical and technology disciplines for the less advantaged; (ii) putting special focus on mitigating dropout and improving full-cycle senior secondary education completion to more equity in tertiary educational access; (iii) improving wage returns and prestige for technical qualification via associated degrees; (iv) adding to scarce world-class institutes of higher learning, supporting investments destined for mass acquisition of educational minimum quality standards; (v) creating business incubators and excellence centres in institutions of higher learning in smaller cities and towns and (vi)
enhancing entrepreneurial education in college, vocational, technical and university institutions.

In light of the above, this section investigates financial instruments that are used to deliver public commodities with particular emphasis on, *inter alia*: educational delivery to young people, resource inequalities, mitigating academic drop-out rates, mass education with particular references to the socio-economically disadvantaged and more education for citizens in smaller cities and towns.

*Firstly*, there have been some significant financial advances towards providing more skills and education to the underprivileged, boosting mass acquisition of educational minimum standards with better focus on peripheral towns/cities. In accordance with recent literature, access to finance in a business environment has some influence on educational quality in African society, which ultimately engenders growth-enhancing rewards that have positive inclusive human development externalities. This description is in line with the assertion that greater financial access exposure enhances students’ entrepreneurial acumen, sharpness and literacy in finance (Oseifuah, 2010; Gerba, 2012; Tchamyou, 2016). On a specific note, Tchamyou (2016) has argued that providing financial access for entrepreneurial education has the potential of decreasing the cost/time of starting a business. Mensah & Benedict (2010) have shown the positive long-run effect of such entrepreneurial activity on poverty mitigation. This is consistent with the Gerba (2012) position that business studies motivate entrepreneurial intentions and Oseifuah (2010) on the connection between financial literacy and youth entrepreneurship.

Interestingly, the narrative above is broadly consistent with: recent ‘*trends in the crowdfunding of educational technology start ups*’ (Antonenko et al., 2014, p. 36); the benefits of crowdfunding for inclusive partnerships in Europe (Hollow, 2013); the use of crowdfunding for ‘*the development and production of an information literacy*’ (Walsh, 2014, p. 63); the use of *reciprocal-crowdfunding* in Rwanda to enhance the entrepreneurial skills of disadvantaged students (Elkuch et al., 2013).

African and Asian nations like India are particularly relevant in the use of such financial mechanisms for acquisition of skills because they represent the fastest and largest burgeoning youth populations among the world’s poorest nations. Such intensifies the urgent need for ‘*job creation programmes and the requirement of ICT skills*’. Mobile banking has been documented to be essential for the success of Massive Online Open Courses (MOOCs) (Trucano, 2013; Porter, 2014). This new platform for the delivery of skills and training is
creating novel opportunities for adaptation in the changing market structures, evolution of the business environment and mitigation of poverty.

Secondly, mobile banking has helped in delivering public health education; hence extending access to previously limited public services and directly tackling concerns of widening inequality. Moreover, microcredit institutions are also being increasingly reformed to provide health education/service that ultimately addresses inequality. As a case in point, many microcredit establishments are more and more bundling credit with education, health and other initiatives (Smith, 2002, p. 707). In Honduras and Ecuador for instance, ‘health-bank participation’ (i) substantially raises future healthcare over ‘credit-only participation’ and (ii) lessens a quick transition to bottle-feeding from breast-feeding with income growth.

For brevity and lack of space we cannot review the plethora of examples on mobile-related health services. The interested reader can find some of these recent mobile health educational innovations in Labrique et al. (2013).

We devote some space to the apparent challenges of an aging population. ‘Aging societies mean new era of banking’ (Moreno & Chan, 2014). According to the authors, by 2025, forty-six nations would have less young people than old, implying financial institutions need to rethink how their businesses are driven. It was noted that an aging population will influence banking in three areas. Firstly, the distribution of wealth is increasingly skewed towards this faction of the population. Secondly, customer behaviour and preferences in products as well as in demands are bound to change. Thirdly, increasing life expectancy with a relative advantage of women implies that they would accumulate larger chunks of wealth among the old (especially in nations like China and India). Financial institutions are currently integrating such shifts in social, demographic and economic into their business models, hence reinventing the banking world11.

6. Informality, Microfinance, Crowdfunding, Microinsurance and Islamic finance

6.1 Informal finance, microfinance, crowdfunding and microinsurance

There is a recent stream of literature on the interconnections among globalisation, informalisation and inclusiveness that should be organised in two parts. On the one hand, globalisation has boosted financial informalisation as opposed to formalisation (Asongu, 2015c). On the other, KE which have covered in the preceding section, as having an appealing

11 The reader can find more information on: http://europe.chinadaily.com.cn/epaper/2014-12/19/content_19124583.htm
impact on inclusiveness has also been documented to be more positively linked with the informal financial sector as opposed the formal economic sector (Asongu, 2014c, 2015b).

In light of the above, informality is playing a substantial role in reducing inequality in less developed countries (Asongu, 2013, p. 301). The author assessed how globalisation-driven reforms have affected inequality via various channels (informal, non-formal and formal). It is also important to note that, mobile telephony is positively (negatively) correlated with the informal (formal) financial sector (Asongu, 2013a). In view of Asongu (2013c), this is an indication that mobile phone usage is pro-poor.

The imperative to lay more emphasis on the role of the informal financial sector draws from the International Financial Statistics (IFS, 2008) definition of the financial system which does not take the informal financial sector into account. The plethora of examples on the instrumentality of the informal financial sector in poverty reduction has been discussed above and will be further explained below. Our motivation for highlighting the informal financial sector is because, in spite of liberalisation policies boosting the informal sector to the detriment of the formal sector (Adeusi et al., 2012), very few studies have focused on the externalities of the corresponding evolving trend on informality (Fugazza & Fiess, 2010; Bairagya, 2010; Asongu & Nwachukwu, 2016a).

As far as we know, other improvements in microfinance that merit emphasis can be discussed along three main lines. Firstly, a strand on ‘innovation in microfinance’ which highlights the need to focus beyond ‘income poverty’ or on ‘social intermediation rather than on financial intermediation. Accordingly, these document the need for exploring new frontiers of social and economic development, which entail, among other things, infrastructure for: skills, health, education and enterprise. Consistent with Hans (2009), this line of argument recommends a symbiotic relationship between social intermediation and financial intermediation in order to break socio-cultural and economic barriers to inclusive development and employment.

Secondly, it has been established that microfinance is a significant driver of the Gross National Happiness (GNH) index (Sharma, 2014, p.73). The author argues for the need to evaluate the effect of microfinance on happiness at an individual level.

Thirdly, owing to the relatively low rate of mainstream bank financing for SMEs (e.g Abor & Biekpe, 2007, for Ghana), there has been substantial recourse to microfinance which

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12 The reader can refer to Lines 24, 25 and 45 of the IFS (2008).
is still not without controversy on interest rate dynamics. Kar and Swan (2014, p. 87) have argued that the interest rate charged by microfinance institutions (MFIs) has appealing effects on improving profitability, reducing repayments and leading to missing drift. The findings reveal that real yield positively impact on loan repayment rates and financial performance of MFIs. The link between performance and ‘rates of interest’ contrast with more recent evidence from Basharat et al (2015): “The results show that financial efficiency has a positive impact on interest rates, with more financially efficient MFIs having lower interest rates, while social efficiency has no impact on microcredit interest rates” (p. 49). Bumacov et al. (2014, p. 401) have concluded that microfinance institutions that employ credit scoring to enhance the effectiveness of their loan officers have enjoyed a substantial expansion in the number of loans and borrowers which ultimately expands financial inclusion and opportunities of development.

One important innovation in microfinance is Crowd funding which is increasingly taking banks to the poor. A notable example is Kiva which has ambitions of facilitating financial access to the poor or to microfinance: ‘Kiva's aim is to make microfinance, which is basically loans to some of the poorest people on the planet, easy’ (Duncan, 2014). According to the World Bank (2013), the potential for this means of finance in developing countries is immense: ‘Crowdfunding has emerged as a multi-billion dollar global industry’ (p.7) because ‘The rate of growth of crowdfunding, and its emergence in developing and developed countries, suggests that this phenomenon can become a tool in the innovation ecosystems of most countries’ (p.8).

There is also a growing body of literature on the inclusive development benefits from crowdfunding. According to Macht (2014, p. 439), entrepreneurs seeking funds who are also interested in enjoying benefits from their crowdfunders are very likely to positively influence their funders via trust-building and relationship marketing mechanisms. This finding is consistent with the conclusions of Assadi and Ashta (2014, p. 461) on the position that online groups associated with crowdfunding have been documented to be replicating group pressures that characterise offline microcredit groups. In summary, Royal and Windsor (2014, p. 425) have established that crowdfunding is addressing gaps left by traditional financial institutions, especially in financing grass-root initiatives.

To the best of our knowledge, crowdfunding is being confronted with two main challenges (i) the need to take into account the identity it creates and disseminates via its communication (Attuel-Mendés et al., 2014, p. 493) and (ii) strategic setbacks due to the
‘social lending market’ demand- and supply-side barriers (Ashta et al., 2015, p. 1). Despite these ongoing challenges, the above studies clearly support the expanding role of crowdfunding in inclusive development.

The burgeoning microinsurance market in developing countries and incorporation of micro-products into existing strategies of insurance represent both developmental and commercial opportunities. Consequently, in the latter perspective, innovations in technology, new commodities and distribution mechanisms are contributing to the overcoming of barriers to regulatory uncertainty, meagre margins of profit and low customer awareness. On the developmental front, microinsurance is providing small businesses and households with growing certainty in future investments by lessening the effects of losses suffered by the most vulnerable in society. These advantages have been substantially discussed in the evolving microinsurance literature, most notably by McCord & Osinde (2005) and Ito & Kano (2010).

Some documented services include: (i) health microinsurance with interesting examples in Uganda (Microcare, CIDR and the Kitovu Patient’s Prepayment Scheme), Kenya (MediPlus and the Community Health Plan) and Tanzania (Poverty Africa and the Community Health Fund) by McCord & Osinde (2005); (ii) rainfall insurance (Giné et al., 2010) and (iii) crop insurance enhancing farmers’ access to more resources in the Sahel region (Koloma, 2015, p.115).

6.2 Recent trends in Islamic finance

According to Forget (2009), the model of finance advanced by Islam is one of social responsibility that is more holistic relative to the version proposed by mainstream economic theories. Thus, “… The goals of socio-economic justice and equitable distribution of income and wealth are an integral part of the moral philosophy of Islam and are based on its unflinching commitment to human brotherhood” (Chapra, 1983, p.2). This account is consistent with Chapra (2008) more than two decades later. In accordance with the author, in order for a financial system to work towards advancing justice, in addition to the need for strength and stability, two more conditions need to be satisfied. First, it is necessary for financiers to take part in the sharing of risks and potential losses with entrepreneurs. Second, bank lending should not be exclusively devoted to the rich, but an equitable portion should also be tailored towards the poor in order to expand employment, mitigate poverty, improve economic opportunities and favour positive redistribution in wealth and income. As we have noted in the preceding sections, the two conditions clearly involve inclusive growth.
Recent trends reveal that the Islamic financial industry has advanced significantly in both geography and size (Nabi, 2013, p. 21). The author remarked that as of 2013, Islamic financial institutions were in the neighbourhood of 600 and working in about 75 jurisdictions. Such accords with the continuously positive evolutionary patterns revealed by KFH Research in 2012. According to KFH, Islamic finance has been on a continuous positive trend because of its inclusive appeal. In essence, from 150 billion USD in the mid-1990s, it was expected to reach 1.6 trillion by 2012 and projected to attain the 6.5 trillion mark by 2020. Nabi (2013, p. 22) further argues that the Islamic Financial Service Industry (IFSI) has grown at a Compound Annual Growth Rate (CAGR) of about 40.3 percent to an estimated 1.1 trillion USD in assets between 2004 and 2011. Some interesting tendencies that have contributed to the upward surge are noteworthy.

Firstly, the Sukuk\textsuperscript{13} segment (or issuance) has progressed at a 42.3 percent CAGR during the 2004-2011 period, to 85.1 billion USD from 7.2 billion USD. Interestingly, between January 1996 and September 2012, 396.4 billion USD of Sukuk was issued in global aggregate terms.

Secondly, while the Takaful\textsuperscript{14} segment may be small, its contribution has also been substantial: growing to an estimated 15.2 billion in 2012 and by a 23.1 percent CAGR during the period 2004 to 2011.

Thirdly, assets under some Islamic funds increased to 64 billion USD in October 2012 from 29 billion USD in 2004.

Fourthly, Islamic Microfinance is a very promising market niche: with 225 global providers of which 92 percent or 164 are in East Asia and Pacific and 72 providers in the Middle East and North Africa (MENA). Moreover, according to CGAP (2013), Sharia-compliant usage was estimated to be at 1.28 million in 2012. To the best of our knowledge, some of the most interesting accounts documenting the promising trend of Islamic Microfinance for financial inclusion are provided by CGAP (2013) and Karim et al. (2008).

We briefly highlight the growing role of Islamic finance in the promotion of inclusive growth. Mohieldin et al. (2012) have concluded that it is one of the most promising mechanisms for lifting the poorest out of poverty. A good example is the Microfinance

\textsuperscript{13} Sukuk refers to an Arabic appellation of financial certificates, commonly known as the Islamic version of mainstream bonds.

\textsuperscript{14} This is a repayment and reimbursement co-operative system that accounts for the following, inter alia’ compensation from an agreed fund destined to small contributions and repayment in events of losses (by people and corporations) from hazards.
Development Program (MDP) which aims to boost the horizon of microfinance in order to better fight poverty. The programme which aims at increasing the outreach of the Islamic Microfinance industry is tailored by the Islamic Development Bank (IDB). It can be summarised in two ways: (1) a plethora of intervention modes designed to tackle a broad range of microfinance needs in the IDB member states in order to avoid the trap of one strategy-fits-all and (2) a leverage of partners and resources with well grounded microfinance establishments such as the Department for International Development (DFID) and the Grameen Bank.

Some measures towards consolidating the inclusiveness of Islamic banking include, inter alia: (1) fortification of growth infrastructure of capital for SMEs and the creation of jobs for youth; (2) consolidation of financial inclusion via microfinance and merging it with parallel Islamic financial products (like Endowments, Micro-Takaful & Zaqat); (3) boosting of private and public sector partnerships by means of Sukuk issuance for financing health, transport and education inclusiveness and (4) the building of dedicated corporate governance, risk management and sound regulatory frameworks for various factions of the Islamic Financial Service Industry to ensure sustainability (Nabi, 2013, p. 33). Recent examples of partnerships with the poor within the framework of an Islamic financial inclusive model documented by Nabi (2013), include among others: local marketing and harvesting of rice in Indonesia; Livestock (goats and cows), rice and cotton growing in Pakistan; Olive orchards and oil mills in Palestine and the growing of greenhouse fruits and vegetables in the Sudan. It should be noted that, harvesting-and marketing- support for ‘local market’ and export purposes are also provided to most of the beneficiaries (e.g., in Pakistan and Sudan).

7. Conclusion

The policy debate has been shifting from the finance-growth nexus to the finance-inequality relationship. In the transition from Millennium Development Goals (MDGs) to Sustainable Development Goals (SDGs), there has been an urgent policy challenge of putting some structure on recent information technology advances in finance for more inclusiveness. The overarching question tackled in this paper has been: to what degree has financial development contributed to providing opportunities of human development for those in the low-income strata and by what information technology mechanisms? We have surveyed about 180 recently published papers to provide recent advances in finance for inclusive development. The analytical approach has consisted of first, situating issues of exclusive
growth in the context of the literature and then reviewing recent financial inclusion growth strategies. Retained financial innovations have been structured along three themes: (i) the rural-urban divide, (ii) women empowerment and (iii) human capital in terms of skills and training. The financial policy initiatives have been supported with case studies, innovations and investment strategies with particular emphasis, inter alia on: informal finance, microfinance, mobile banking, crowdfunding, microinsurance, Islamic finance, remittances, Payment for Environmental Services (PES) and the Diaspora Investment in Agriculture (DIA) initiative.

On the useful application of this paper, our survey should substantially benefit both scholars and practitioners in formulating and implementing policies that are friendly towards more inclusiveness. Financial instruments as well as best practices in some case studies can be translated to other countries with the same fundamental needs. The review is also relevant to corporations wishing to improve on their inclusiveness strategies. For example, there are reports underway (like the ‘Vodafone SIM project’) which are fundamentally motivated by ICT-development not featuring prominently in the current SDGs debates. Rising inequality has been a crucial item on the agenda of the Great 20 nations, less developed countries as well as emerging markets. All stakeholders can benefit from this survey by adopting financial instruments that are consistent with their development needs and relevant to their environmental challenges. Some instruments of reference may not provide expected results when implemented in the same development environments. Understanding why such policies might fail is an interesting future research direction.
References


