

State Ownership of Financial Institutions in Europe and Central Asia

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Abstract

This paper introduces key findings from a new cross-country survey on state-owned financial institutions in Europe and Central Asia. It covers 41 such institutions operating in the region as of end 2016, and considers variables in the areas of mandates, instruments, performance,

governance, and monitoring/evaluation. It presents results over the period following the global financial crisis up to 2015, distinguishes between state-owned commercial and development financial institutions, and looks at differences among three geographical sub-regions.

This paper is a product of the Finance and Private Sector Development Team, Development Research Group and the Finance and Markets Global Practice Group. It is part of a larger effort by the World Bank to provide open access to its research and make a contribution to development policy discussions around the world. Policy Research Working Papers are also posted on the Web at <http://econ.worldbank.org>. The authors may be contacted at dmare@worldbank.org.

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1 Introduction

The 2008 Global Financial Crisis (GFC) has prodded policy makers to reconsider the role of the state in the financial sector, including state ownership of financial institutions. The financial turmoil prompted extraordinary government intervention, including in addressing a set of market failures and procyclicality in lending. One type of initiative involved using state-owned financial institutions (SOFIs) to ramp up financing to the private sector and smooth out the credit supply over the economic cycle. Nonetheless, the heated and long-standing debate over the rationale for state intervention and the advantages and shortcomings associated with state ownership in finance has continued. On one hand, such state intervention can be beneficial to address domestic market failures, achieve social/ developmental goals (positive externalities) and mitigate procyclicality in lending. Conversely, political capture, inefficiencies and inherent contradictions between a profit oriented banking mandate and a social/ developmental policy mandate are often deemed as evident shortcomings of state-ownership in the financial sector. Yet data on SOFIs are sparse and inadequate to assess and evaluate some important aspects of their operations such as mandates, instruments, performance, governance and monitoring.

Europe and Central Asia (ECA) is a region that offers interesting insights on the debate (see Box 1 on a historical perspective).¹ Prior to the financial crisis, several countries in the western part of ECA encouraged a high degree of foreign entry in their banking sectors to increase access to finance based on funding from foreign parents, improve stability and overall banking efficiency through spillovers to domestic banks, and prepare for joining the European Union. In parallel, the creation of a single European market led to a decrease in direct support to national economies in the member states of the European Union and a limitation on direct government intervention. As the regulatory powers of the European Commission (EC) increased, SOFIs in the western part of Europe have come under increased scrutiny and have started relying more on market financing to avoid violating state aid rules. By contrast, as they transitioned from planned to market economies, several countries in the eastern part of ECA did not manage to attract foreign investors and actively pursued a high degree of domestic and (often) state ownership in their financial systems. A

¹ According to the World Bank definition (see for instance Gould and Melecky, 2017), the countries included in ECA are: Albania, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Italy, Kazakhstan, Kosovo, Kyrgyzstan, Latvia, Lithuania, Luxembourg, Macedonia, Moldova, Montenegro, Netherlands, Northern Cyprus, Norway, Poland, Portugal, Republic of Serbia, Romania, Russian Federation, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Turkey, Turkmenistan, Ukraine, United Kingdom, Uzbekistan.

gradualist approach to financial sector reform proved more challenging than the privatization of state-owned enterprises, trade and foreign exchange reforms, and price liberalization (Roaf et al., 2014) – this reflected (in part) the high prevalence of non-performing loans (NPLs) and unsuccessful privatizations, leading to the emergence of strong domestic interests. In addition, the belief that some national control over the banking system was important for national security limited political support for reform.

Box 1. SOFIs’ historical context in ECA

SOFIs in ECA have a long and tangled history intertwined with the major economic and political developments in the continent - ranging from the transformation of economic systems in the 1990s, to the call for SOFIs to play a significant counter-cyclical role during the GFC.

While state ownership in the western part of ECA could be traced back to efforts of public officials in the middle ages to respond to the punitive consequences of debt default creating periodic social instability, state banking became firmly established with the industrial revolution in the early 20th century. The postwar period saw a rapid expansion for a variety of reasons – from delivering banking services where none existed or developing infrastructure, to supporting militaristic goals, countering foreign dominance, or funding the government. By the 1970s, state ownership in western part of ECA ranged from 75 percent in Italy to 20 percent in Sweden, while the eastern part of ECA was almost entirely state owned.

In the past few decades, state ownership of financial institutions in ECA was, once again, jolted by global and idiosyncratic events. Market liberalization decreased state intervention in the financial sector globally and in ECA – in the eastern part of the region this took place in the context of an overall transition from planned to market economies, while in the western part of the region the process of joining the European Union (EU) emerged as the most influential driver of economic reforms.

The EU (and the process of joining the EU) fundamentally changed SOFIs. SOFIs were an alternative instrument for governments to provide support to national economies, as the number of policy tools decreased. At the same time, SOFIs were reformed in line with neoliberal policies, increasingly turning to capital markets to raise funds and the private sector to co-finance projects, while new products were introduced and governance was reformed. Concurrently, SOFIs co-existed with EU funded development programs, primarily in the form of grants.

The GFC and the oil price collapse have been the latest ‘shocks’ in the history of SOFIs in ECA. Like elsewhere, these were called upon to support credit growth as private sector bank lending came to a halt. In the western part of ECA, the sovereign debt crisis (aided by the zero-risk weight of sovereign bonds under the Basel capital requirement framework) also resulted in many SOFIs playing an active role in supporting government debt markets (De Marco and Macchiavelli, 2016). At the same time, in an attempt to promote a revival of the European economy and to spur the creation of a capital market union, the EC launched an investment plan under which EU resources can be utilized by SOFIs to crowd in private capital and SOFIs are encouraged to create special purpose vehicles to promote securitization and the deepening of capital markets.

The GFC sparked a vivid debate among policy makers in ECA, particularly in the western part of the region. With the high costs associated with the bail-out of privately owned financial institutions, quantitative easing appearing to have little impact on economic growth (either failing to expand banks’ lending portfolio or lending failing to target recipients with high propensity to

consume), and many countries facing tightening fiscal constraints, policy makers increasingly explored SOFIs as potential countercyclical instruments. For example, in the UK the publicly-owned British Business Bank was established to assist smaller businesses and Green Investment Bank to support and expand green investment. In the European Union, the Investment Plan for Europe (also known as the “Juncker Plan”) entailed a prominent role for “National Promotional Banks” induced to intermediate resources from the European Fund for Strategic Investments.² At the same time, state-owned banks, like Poland’s PKO BP, expanded credit at a faster pace than private banks did. In this case, this was possible due to the bank’s conservative funding structure that made it less dependent on wholesale funding than foreign-owned subsidiaries, which controlled almost 75 percent of the banking system.

Given the renewed interest in SOFIs in ECA and beyond as a consequence of the GFC (and the more recent 2014 oil price shock), we try to take stock and analyze state-ownership in the financial sector by collecting information on SOFIs headquartered in ECA through a questionnaire. We provide a disaggregated picture and its evolution over time for several SOFIs’ characteristics such as mandates, instruments, performance, governance and monitoring/ evaluation. Our work provides a comparison among different SOFI types and their key features and an understanding of their evolution over time. The data also permit, with certain limitations, a better understanding of trends and factors involved within sub-regions in ECA. While it may not answer them directly, the survey also offers insights on questions such as the ECA SOFIs’ countercyclical performance, or how conducive might EU SOFIs’ operations be for achieving the European Commission’s vision.³

The remainder of the paper proceeds as follows: Section 2 provides the justification and criticisms of state ownership in the financial sector, Section 3 defines a typology of SOFIs’ institutional set-up and their instruments, Section 4 illustrates the sample and different classifications pursued, Section 5 discusses the survey responses, and Section 6 concludes.

2 Justification and criticisms of state ownership

Governments justify state ownership in the financial sector based on different grounds (see Table 1). A frequently used justification in the academic literature is the effort to address a set of market failures (World Bank, 2012; Cull, Martinez Peria, and Verrier, 2017). These can be

² Likewise, in the United States, a heated debate erupted over introducing public banks modeled after the Bank of North Dakota.

³ See European Commission, 2015.

summarized as asymmetric information problems and externalities. State intervention has also been justified based on its contribution to social goals, by financing projects with negative net present value but with positive social returns (Levy-Yeyati, Micco, and Panizza, 2004), on the ability to overcome coordination failures (de la Torre, Gozzi and Schmukler, 2017), or as a way to promote competition in the financial sector. The recent literature has also identified the important countercyclical and safe haven role that SOFIs can play during financial crises or economic recessions.⁴ Although not frequently reflected in academic literature, governments have also promoted SOFIs as world-class champions—a matter of national pride and global outreach—or simply as a source of returns through their shareholding position. Notably, SOFIs may frequently change their mandate or focus, whether because the underlying market failure has been overcome, or because policy makers have attached different weights among competing social/ developmental priorities.⁵

Table 1: State intervention rationale

| State Intervention Rationale | Example |
|--|--|
| (i) Market failures , leading to lack of competition and underserved segments. Financing financially profitable projects that do not get financed due to market failures (e.g. asymmetric information). | SMEs, Agriculture, R&D and capital intensive sectors. International trade. Long term finance (including infrastructure). Broader commercial banking. |
| (ii) Social/ developmental goals . Financing financially unprofitable projects that are socially valuable. This includes socio-economic, environmental and other goals. | Rural and isolated areas. |
| (iii) Countercyclical/ safe haven . Financing financially profitable projects that do not get financed when private bank risk appetite overreacts to recessions. Reduce employment volatility. Provide safe haven for depositor flight and contagion circuit breaker during crisis. | Labor-intensive sectors. Wide geographic branch presence. Broader commercial banking. |
| (iv) State champions . Promoting the creation of globally relevant institutions as a matter of national pride and global outreach. | Broader commercial banking. |
| (v) Return . Provide returns to the state as shareholder. | Broader commercial banking. |

Several studies also convey the criticisms of state ownership in the financial sector. Agency problems may exacerbate the efficient delivery of financial products and services (Shleifer and

⁴ World Bank, 2012; Rudolph, 2009; Micco and Panizza, 2006; Bertay, Demirgüç-Kunt, and Huizinga, 2015; Choi et al., 2016; Coleman and Feler, 2015; Brei and Schclarek, 2013. Nonetheless, evidence on the countercyclical role of banks is mixed (Luna-Martinez and Vicente, 2012; Cull and Peria, 2013) and, if credit allocation is poor, SOFIs' countercyclical role becomes questionable (Bertay, Demirgüç-Kunt, and Huizinga, 2015; Coleman and Feler, 2015).

⁵ A recent emerging research agenda combines diverse theories to propose a new framework to understand the motives behind state intervention and how this intervention is formulated, enacted and evaluated (see for instance Mazzucato and Penna, 2016).

Vishny, 1998; Iannotta, Nocera, and Sironi, 2007; Dinç, 2005; Acharya et al., 2010, Iannotta et al. 2013), hurting banking system performance (Barth, Caprio, and Levine, 2006). These arguments emphasize the need to resolve the underlying market failure directly - for example, credit or collateral information weaknesses should be addressed by strengthening the country's financial infrastructure, and long-term finance should be promoted by reforms related to capital markets and institutional investors.⁶

3 A typology of SOFIs' institutional set-up and instruments

SOFIs comprise a broad range of financial intermediaries and can be classified from purely commercial to the purely developmental. Although trying to box the state ownership of financial institutions into strict types is difficult, in broad terms one can differentiate among three key types of SOFIs (see Table 2). At one extreme, pure state commercial banks are practically full-fledged, profit-maximizing commercial banks, taking deposits from the general public and extending loans directly to the final customers, without a policy mandate. At the other end of the spectrum, pure state development financial institutions operate under a narrow policy mandate, may not collect deposits and rely on direct lending instruments and the provision of technical assistance.⁷ The underlying rationale is important in defining performance expectations. For example, the social goal focus of a state development oriented institution could emphasize capital preservation rather than profit maximization. In any case, government transfers in support of social goals and their transparency is fundamental to sustainability.

⁶ Several studies have aimed to provide good practices that may enhance the efficacy of SOFIs (Scott, 2007; Rudolph, 2009; Honohan, 2010; Gutierrez, Rudolph, Homa & Beneit, 2011; de la Torre, Gozzi and Schmukler, 2017).

⁷ Special sub-categories include: (i) state narrow financial institutions, with a mandate to mobilize savings - they collect deposits, but make no loans and invest only in government paper, and are typically postal offices; (ii) state development agencies, with a narrow policy mandate to make no loans or collect deposits, but deploy non-financial instruments, typically focused on technical assistance.

Table 2: Typology of SOFIs' institutional set-up

| Typology | State Intervention Rationale |
|---|---|
| (i) State commercial banks. They do not have a policy mandate, and are profit maximizers with operations practically indistinguishable from those of private commercial banks. They collect deposits from the public and use them to lend directly to firms and individuals. In many cases, they are universal banks - directly or through affiliates. | (i) Return; (ii) Countercyclical/ safe haven; (iii) Competition; (iv) State champions |
| (ii) State hybrid banks. They have a policy mandate, and perform commercial banking activities. They collect deposits from the public and use them to lend directly to firms and individuals. They act as a government agent in administering state subsidies and other programs. | (i) Return; (ii) Countercyclical/ safe haven; (iii) Competition; (iv) State champions; (v) Market failures; (vi) Social goals |
| (iii) State development financial institutions. They have a policy mandate, usually do not take deposits and are funded by international financial institutions (IFIs), bonds or government transfers. They lend directly or on-lend to firms in specific sectors (SMEs, exports, agriculture, etc.), as well as deploy partial credit guarantee schemes or other financial instruments. | (i) Market failures; (ii) Social goals; (iii) Countercyclical |

Table 3 summarizes a range of financial instruments. The selection of instruments by SOFIs should depend on the intervention rationale, while the structure and degree of institutional development of the country's financial system is an important determinant. In general, direct lending by state development-oriented institutions should be undertaken in market segments (e.g. client type, location, maturity, underlying security etc.) not covered by the private sector. Importantly, direct lending requires highly specialized risk management, strong credit underwriting skills, and operational efficiency. On-lending by state development-oriented institutions through other financial intermediaries, on the other hand, limits the scope for political interference and competition distortion, and enables the channeling of a higher volume of resources at lower costs by leveraging the infrastructure of other institutions. Risk-sharing facilities are another indirect and market-friendly means of state intervention, with the additional benefit of further leveraging public resources. Capacity building and training programs for existing and prospective clients (financial intermediaries and ultimate beneficiaries) can increase the sustainability of state financing.

Table 3: Typology of SOFIs instruments

| Typology | Benefits |
|--|---|
| (i) Direct lending (also known as first-tier, retail). Direct provision of finance to the ultimate beneficiary. Finance can be a regular loan, leasing, or factoring. | Targeted approach, when ultimate beneficiary or location is too expensive for private financial intermediaries to serve. |
| (ii) On-lending (also known as second-tier, wholesale, apex). On-lending to financial intermediaries for their direct provision of finance to the ultimate beneficiary. Finance can be a loan, leasing, or factoring. | Lower cost and risk management burden. Limited scope for political interference and market distortion. Can promote competition among private sector participating institutions and lead to higher demonstration effect. |
| (iii) Partial credit guarantee schemes (also known as risk sharing facilities). Offering of partial credit guarantees that partially offset loan losses by private financial intermediaries upon the ultimate beneficiary's default (e.g. infrastructure projects, MSMEs, gender targeting etc.). | Leverage public resources. Alleviate enterprise collateral constraints, reduce project risk, and financial intermediary risk aversion. |
| (iv) Grants. Direct or indirect (through third parties) provision of grants. | Achieve socially desired objectives, ensure equitable income distribution. |
| (v) Other financial products, such as venture capital and equity financing. | Typically deployed to develop segments of the capital markets. Targeting seed start-up and early stage enterprises. |
| (vi) Non-financial products. Offering advisory services, capacity building, training programs to financial intermediaries or ultimate beneficiaries, or market creation services such as reverse factoring platforms. | Strengthen financial intermediaries or ultimate beneficiaries, typically complemented by financing. |

4 Sample and classification

The survey (see Appendix 1) covers a broad range of financial institutions that are government-owned and operate in ECA.⁸ Government ownership is defined as ownership above 50 percent (e.g. plus 1 share with voting rights). The sample includes 41 institutions distributed across 21 countries (see Appendix II). Quantitative information is gathered at three points in time: 2007, 2011 and 2015. It is worth mentioning that some results should be interpreted with caution, as the sample representation in terms of sector assets or state ownership in the sector varies considerably.

⁸ It excludes SOFIs that were nationalized during the GFC (or other recent crises) and the authorities' policy intention is to privatize them in the short to medium term.

Table 4: Number of survey respondents by country and weight in the financial sector

| Country | EU (Y/N) | Assigned geography | Number of Institutions | % country banking assets | % of country state owned banking assets | % country banking loans |
|---------------------------|----------|--------------------|------------------------|--------------------------|---|-------------------------|
| Bosnia and Herz. | N | West ECA | 3 | 9.4 | 100.0 | 10.3 |
| Bulgaria | Y | West ECA | 2 | 3.2 | 100.0 | 2.6 |
| Croatia | Y | West ECA | 1 | 6.6 | 39.5 | 1.5 |
| Czech Rep. | Y | West ECA | 1 | <1 | 25.9 | <1 |
| France | Y | Benchmark Europe | 2 | <1 | 20.2 | 1.9 |
| Germany | Y | Benchmark Europe | 3 | 4.8 | 14.0 | 7.8 |
| Hungary | Y | West ECA | 2 | 3.7 | 100.0 | 3.3 |
| Kyrgyz Rep. | N | East ECA | 2 | 18.6 | 100.0 | 20.0 |
| Latvia | Y | Benchmark Europe | 1 | 1.3 | 73.7 | 1.0 |
| Macedonia | Y | West ECA | 1 | 4.0 | 100.0 | 5.7 |
| Netherlands | Y | Benchmark Europe | 2 | 3.6 | 16.3 | 2.8 |
| Poland | Y | West ECA | 1 | 2.6 | 60.7 | 2.4 |
| Portugal | Y | Benchmark Europe | 1 | 25.9 | 89.1 | 32.7 |
| Rep. of Belarus | N | East ECA | 3 | 5.1 | 80.1 | 3.1 |
| Romania | Y | West ECA | 2 | 7.9 | 100.0 | 7.2 |
| Russian Federation | N | East ECA | 3 | 23.1 | 39.5 | 7.3 |
| Slovenia | Y | West ECA | 1 | 43.4 | 82.4 | 85.7 |
| Spain | Y | Benchmark Europe | 2 | 1.8 | 36.1 | 2.3 |
| Turkey | N | West ECA | 4 | 11.6 | 55.7 | 13.4 |
| Ukraine | N | East ECA | 3 | 11.5 | 98.6 | 10.7 |
| United Kingdom | Y | Benchmark Europe | 1 | <1 | 0.1 | <1 |
| Total | | | 41 | | | |

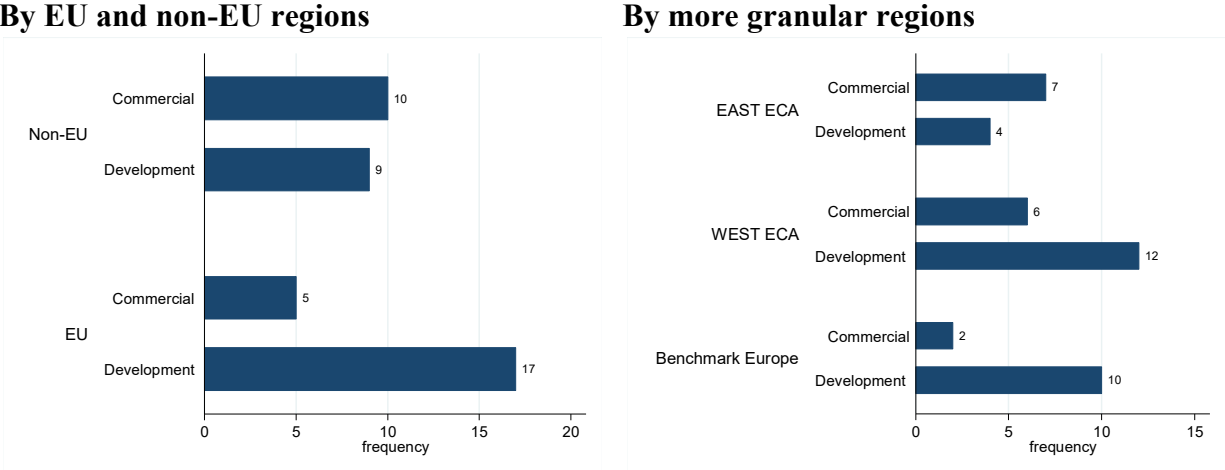
Note: Figures as of end 2015. Denominators for % country banking assets, % of country state owned banking assets, and % country banking loans refer to the banking sector. Nonetheless, almost 80 percent of SOFIs in our sample have a banking license.

We assign each institution to one of three granular geographic areas (see Table 4) – Benchmark Europe, West ECA and East ECA. The West ECA sample holds the highest number of SOFIs (18), followed by Benchmark Europe (12), and East ECA (11). We also delineate among EU and non-EU countries, but report on this classification only when a significant relationship is observed. The sample includes 22 SOFIs in EU countries, and 19 in non-EU countries.

Given the survey sample and to facilitate comparisons, we collapse the SOFIs typology of Table 2 into two groups: Commercial SOFIs includes Table 2’s commercial and hybrid banks, and Development SOFIs corresponds to Table 2’s development financial institutions. In practice, the former group includes institutions that may or may not have a policy mandate, but perform mainly commercial banking activities including the collection of retail deposits; the latter group is composed of institutions that have a policy mandate and do not collect retail deposits, as well as institutions that support the internationalization efforts of firms and international trade and

investment (i.e., an Exim function). Overall, as reported in Figure 1, 15 institutions have been classified as Commercial SOFIs and 26 as Development SOFIs.⁹

Figure 1: Number of survey respondents by geographic region and type



Notably, Development SOFIs dominate the EU countries sample. In addition, Development SOFIs make up more than 80 and 60 percent of the sample in Benchmark Europe and West ECA respectively, while Commercial SOFIs account for more than 60 percent of the East ECA sample. As a consequence, the geographic cut of the survey results needs to be interpreted under the right lens - results for EU are driven by Development SOFIs; and, looking at the more granular categorization, Benchmark Europe and West ECA are mainly driven by Development SOFIs, while East ECA by Commercial SOFIs.

5 Survey responses

Data are primarily presented by type of SOFI and, whenever relevant, by geographic region. In most figures, percentages refer to the number of institutions within the reported category that answered yes to the specific survey question.

⁹ Notice that two Development SOFIs accept retail deposits, have a social objective and are not profit maximizers (one of them performs the Exim function).

5.1 General information

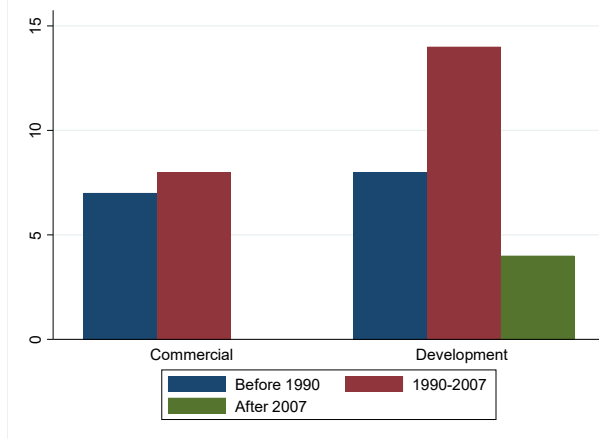
Figure 2 reports information on the year of establishment, structural characteristics, legal status and ownership, licensing and regulation. Institutions included in the sample were established at different points in time, with the oldest created more than a century ago and the newest having less than a decade of history. In terms of historical context, one could expect that the liberalization policies that followed the collapse of the Soviet Union would result in limited establishment of SOFIs in the period from 1990 up to the GFC, when interest in SOFIs was renewed. Nevertheless, over 60 percent of the SOFIs in the sample were created since 1990. Among the four post-GFC created SOFIs (i.e. after 2007), three were established in Benchmark Europe and one in East ECA, and all of them were Development SOFIs. While almost an equal number of Commercial SOFIs was established before and after 1990, the number of Development SOFIs increases over time - eight were established before 1990, and 18 after 1990 (of which four after 2007). Notably, Commercial SOFIs are less (but, nevertheless, highly) likely to have been state-owned since their establishment.

In 60 percent of the surveyed SOFIs, there is a single shareholder (mostly driven by West and East ECA), while the incidence of at least two shareholders is higher in Benchmark Europe at about 60 percent. Only 12 percent of SOFIs have at least five shareholders, meaning that the likelihood of observing disperse ownership is relatively low. For both Commercial and Development SOFIs, around 60 percent of the institutions are financial groups. Most Commercial SOFIs have domestic subsidiaries and 40 percent of them have foreign branches/ subsidiaries. A lower proportion of Development SOFIs has domestic subsidiaries and just two have a foreign presence (a SOFI with a representative office and a SOFI with Exim functions). Only four Commercial SOFIs are listed on a stock exchange and there are no listed Development SOFIs. Reflecting the sample composition, none of the listed SOFIs come from the EU countries or Benchmark Europe under the more granular geographic cut.

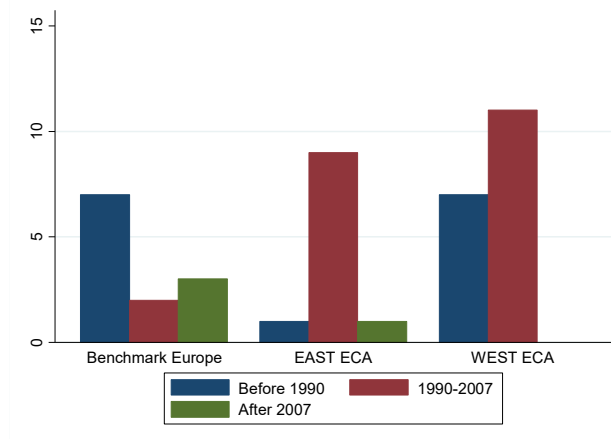
Figure 2: General information

2a. Year of establishment

By type

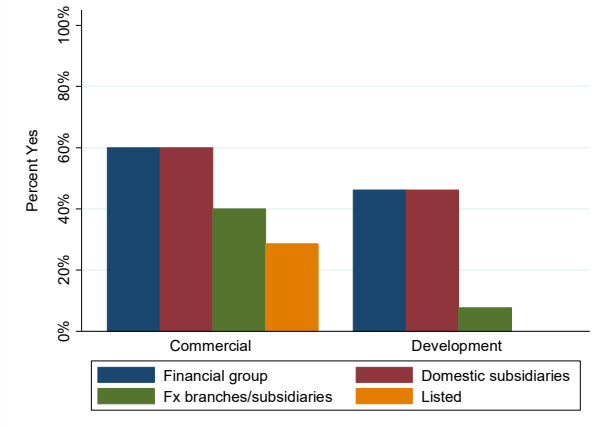


By granular regions

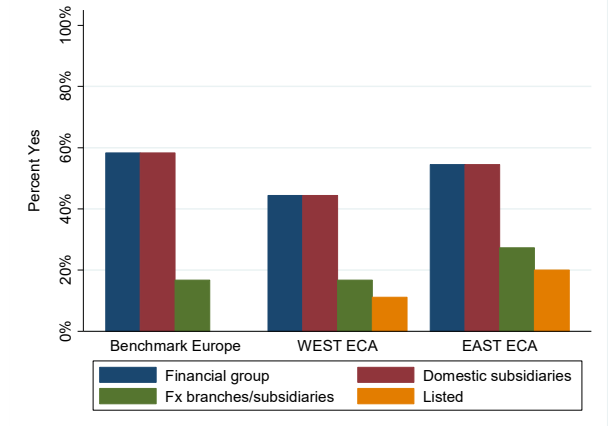


2b. Structural characteristics

By type

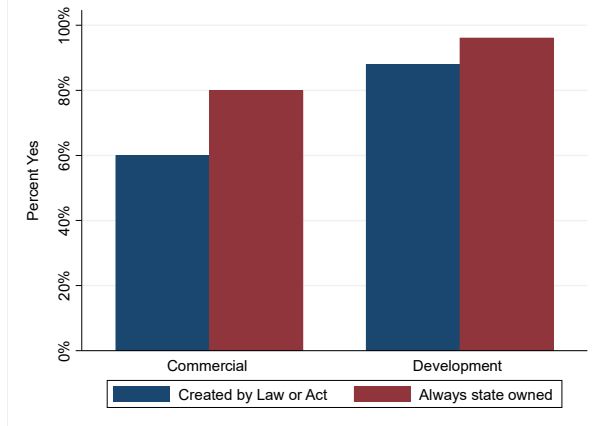


By granular regions

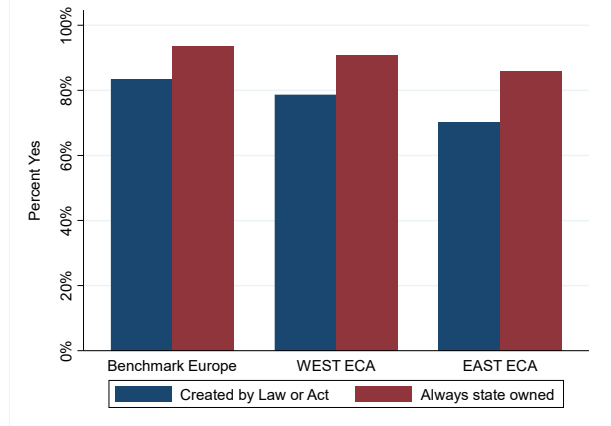


2c. Legal status and ownership

By type

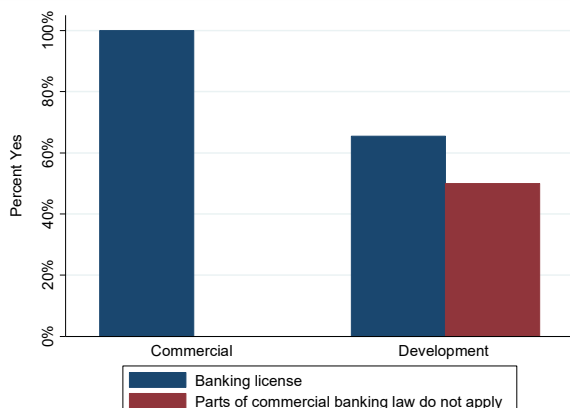


By granular regions

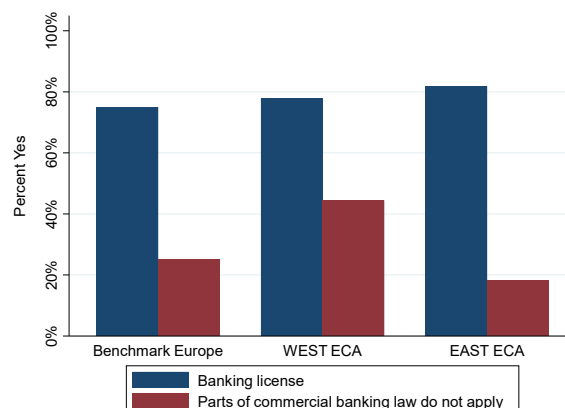


2d. Licensing and regulation

By type



By granular regions



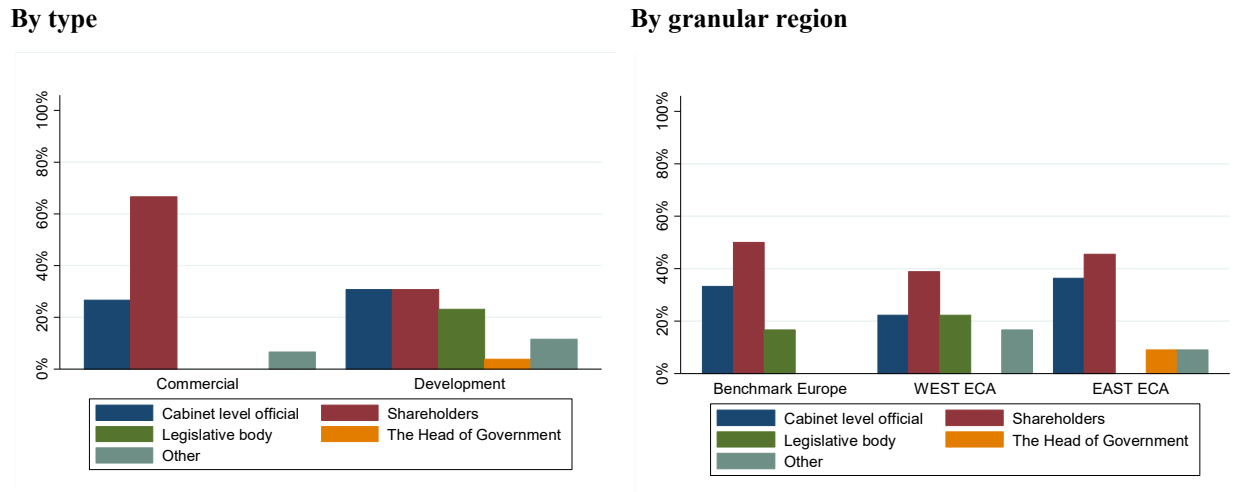
An important aspect of SOFIs' characteristics is their licensing, especially for institutions that collect retail deposits and extend loans (i.e. perform financial intermediation). A banking license may favor the separation of responsibility for exercising ownership and for regulatory and supervisory duties (Scott, 2007). Among the sample, more Development SOFIs were created by law or act, and have always been state-owned. All Commercial SOFIs in the sample have a banking license and are subject to commercial banking law and the prudential supervision of the banking supervisory authority (with, on average, onsite inspections twice per year). On the contrary, about 60 percent of Development SOFIs have a banking license and about 50 percent are exempted from parts of the commercial banking law. This is not surprising, however, given the sample categories construction - only two Development SOFIs take deposits from the general public and both have a banking license (but are, nevertheless, not subject to all aspects of the regular banking law). The sample categories construction may also explain why West ECA (which is characterized by more Development SOFIs) has a higher incidence of parts of the commercial banking law not applying to the SOFIs.

5.2 Accountability, mandate, and objectives

SOFIs are accountable to diverse stakeholders. For instance, a Commercial SOFI is more likely to be legally responsible or accountable directly to its shareholder, whereas a Development SOFI might be accountable to a more diverse set of stakeholders. Moreover, almost one in ten Commercial and Development SOFI is accountable to multiple entities (under the category "Other" in Figure 3). Looking at the granular regions, SOFIs in Benchmark Europe are the most likely to be accountable directly to their shareholders, whilst in West ECA there is high diversity

in accountability structures, and in East ECA the Finance Minister or other cabinet level official (category “Cabinet level official” in Figure 3) is the most likely category under accountability.

Figure 3: Accountability



In terms of policy mandate characteristics, a specific policy mandate is more prevalent among Development SOFIs compared to Commercial SOFIs, and in Benchmark Europe and West ECA (Figure 4a). Interestingly, none of the Commercial SOFIs established after 1990 have a specific policy mandate, whereas all established prior to 1990 had a specific purpose. Almost 40 percent of Development SOFIs and 20 percent of Commercial SOFIs have revised their policy mandate in the last 10 years, probably due to the GFC. Over 50 percent of SOFIs in ECA have a mandate that includes financial sustainability, and only a smaller percentage is required to achieve a minimum rate of return.

Turning to SOFIs’ business objectives within SOFIs’ mandates (Figure 4b), Commercial SOFIs lean toward profit maximization or pursue multiple objectives (e.g. profit maximization and a social objective), whereas most Development SOFIs aim to achieve a social/developmental objective.¹⁰ This is not surprising, however, given the sample categories construction. Nevertheless, in 2015, SOFIs that maximize profits had higher return on assets, but also higher NPLs, significantly higher operating expenses, and lower capital adequacy ratios. SOFIs whose mandate includes a financial sustainability objective had lower return on assets and significantly higher operating expenses compared to those that did not have a financial sustainability objective in their mandate.

¹⁰ Only one Development SOFI is profit maximizing, but the institution has multiple objectives and is required by the state/ government to achieve a minimum rate of return on capital.

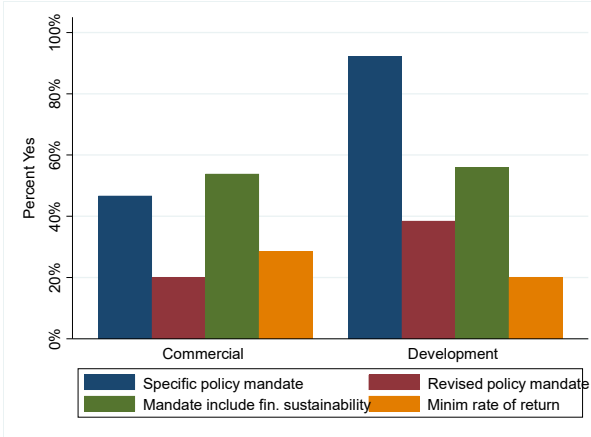
SOFIs may have multiple sectoral objectives. Figure 4c reports the percentage of institutions within each category (e.g., commercial) that indicated that the mandate was financing Small and Medium Enterprises (SMEs), agriculture, infrastructure, export and import (Exim) and other. These choices are not mutually exclusive, meaning that institutions may have indicated more than one choice, and are summarized by the variable “multiple mandates”.

Sectoral objectives are quite heterogeneous and vary across groups and regions. SME financing dominates irrespective of the SOFI type, and is particularly prevalent among Commercial SOFIs compared to other objectives (Figure 5a). Development SOFIs have a wider range of objectives, with more than half having more than one mandated (Figure 5b). Multiple objectives may generate operational complexity and are difficult to evaluate and monitor; on the other hand, they may allow diversification and higher operational efficiency. Development SOFI mandates are significantly more focused on infrastructure and export compared to Commercial SOFIs.

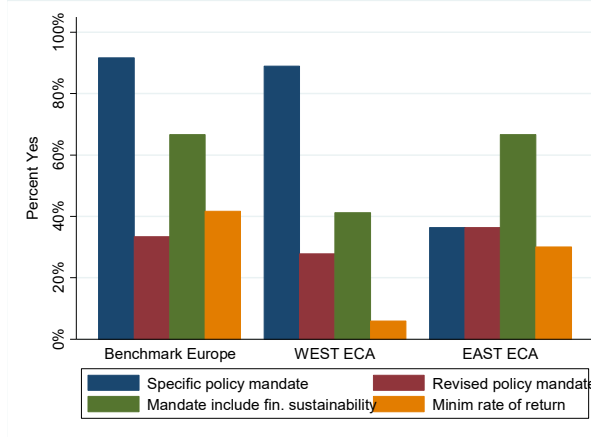
Figure 4: Mandate and objectives

4a. Mandate characteristics

By type

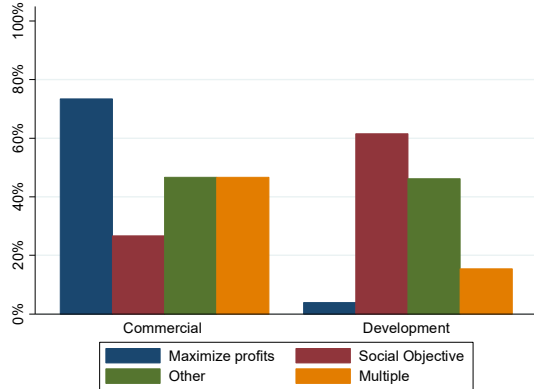


By granular regions

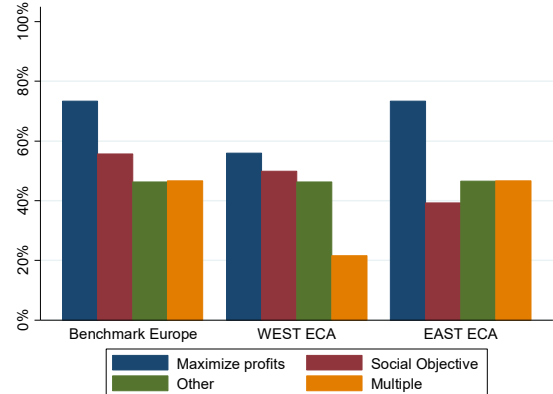


4b. Business objective

By type

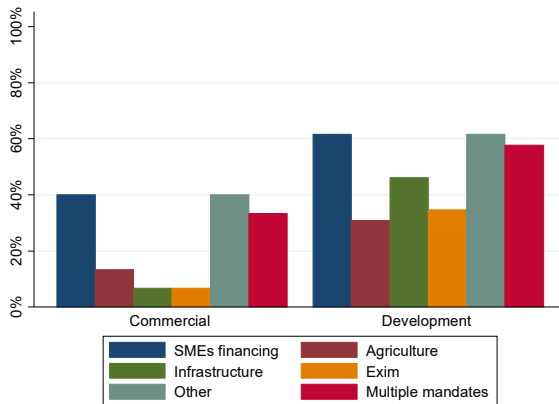


By granular region

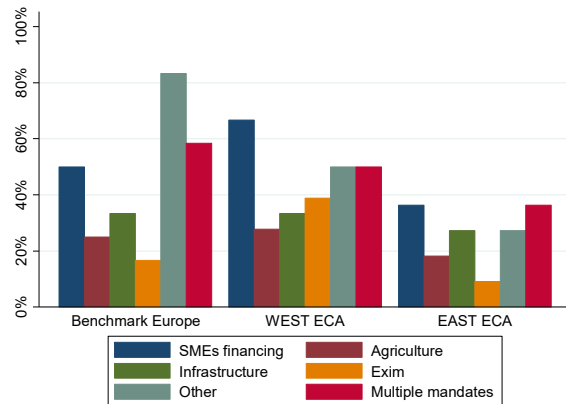


4c. Sectoral objective

By type



By granular regions



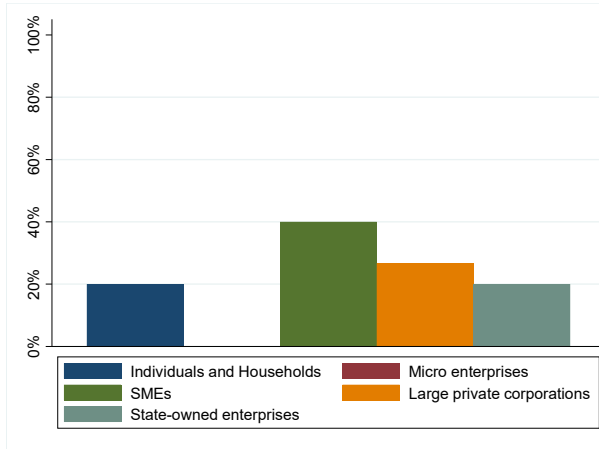
Looking at regions (Figure 4c), SME financing is an objective for more than half of the SOFIs in Benchmark Europe and West ECA under the more granular regional splits, while objectives are more balanced in East ECA (Figure 4c). The Exim function is particularly pronounced in West ECA, possibly aiming to reap more benefits from the geographic proximity to the EU. The mandates of SOFIs in Benchmark Europe appear to be less specific, with 4 out of 5 having a less specific – i.e. “Other” – mandate.

The ranking of target markets shows a diverse orientation of SOFIs across the three regions, particularly exemplified by Benchmark Europe (Figure 5c). Financing SMEs is the most important sector in West ECA. Financing in East ECA (which is driven by Commercial SOFIs) is dominated by large private corporations – probably driven by extensive privatization in the 1990s – and state-owned enterprises – possibly driven by common shareholding and state ownership in key strategic

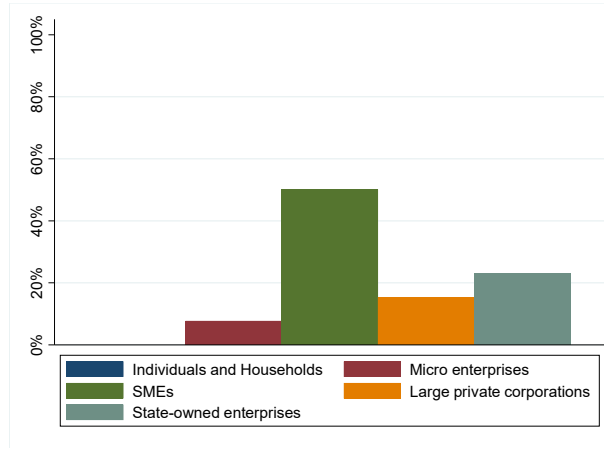
sectors, like energy. No SOFIs indicated start-ups as a primary target market. SOFIs operating in Benchmark EU are equally likely to target a diverse set of customers.

Figure 5: Most important target market (2015)

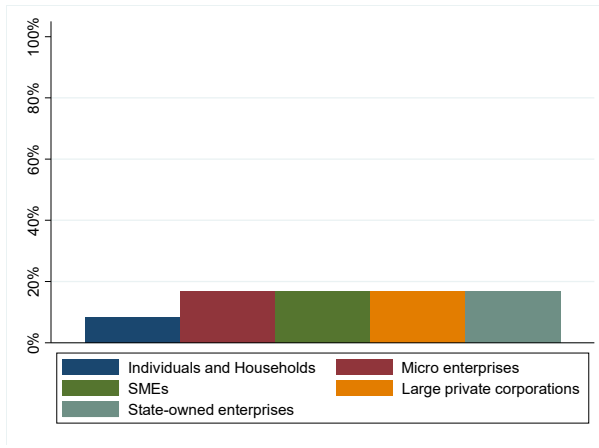
5a. Commercial SOFIs



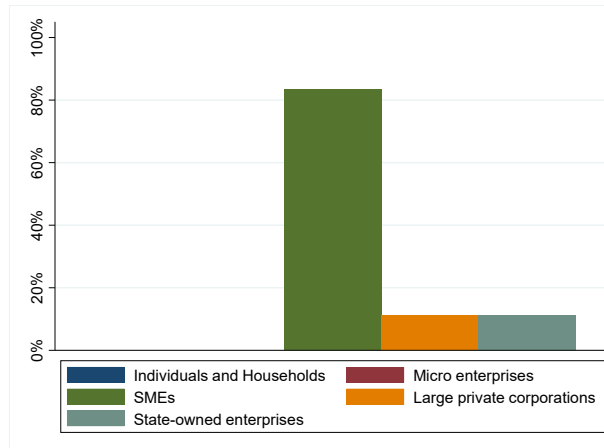
5b. Development SOFIs



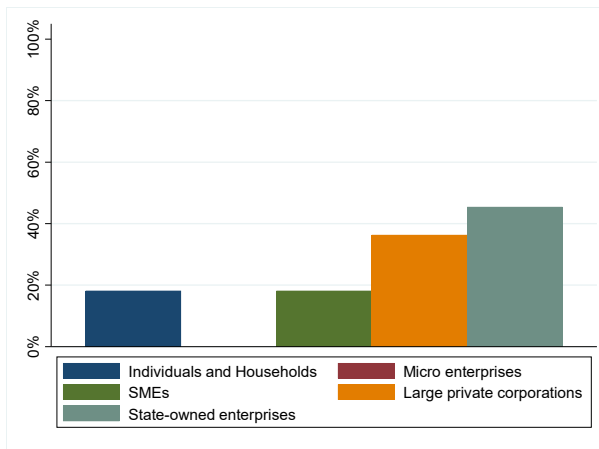
5c. Benchmark Europe



5d. West ECA



5e. East ECA



With regard to SOFI's countercyclical policy, just one in four SOFI's in our sample has a specific policy for increasing lending during economic recessions or financial crises and this is predominantly among Development SOFI's. In relative terms, one in five Commercial SOFI's has a specific counter-cyclical policy while for Development SOFI's this is almost one in three.

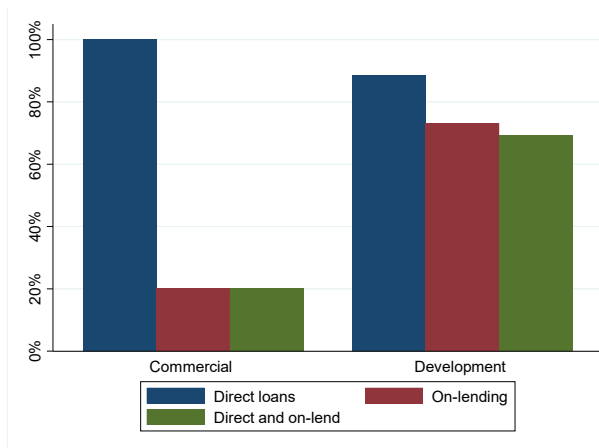
5.3 Instruments and portfolio

5.3.1 Instruments

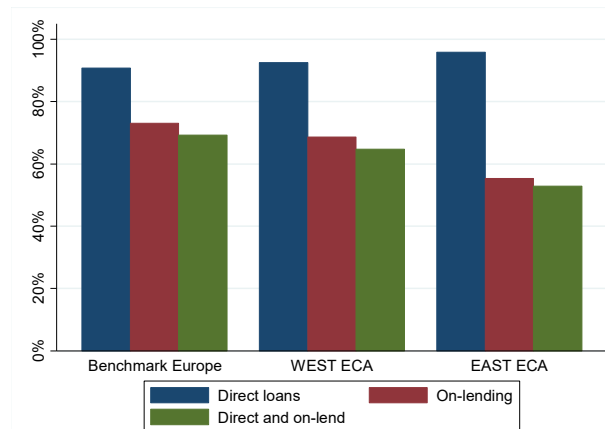
About 20 percent of Commercial SOFI's do on-lending (a.k.a. wholesale lending, second tier, or apex lending) alongside direct lending (a.k.a. retail lending), and almost 70 percent of Development SOFI's do a combination of direct and on-lending. East ECA, characterized by more Commercial SOFI's, has a lower incidence of on-lending compared to the other two granular regions (Figure 6a).

Figure 6: Instruments

6a. Means of lending
By type

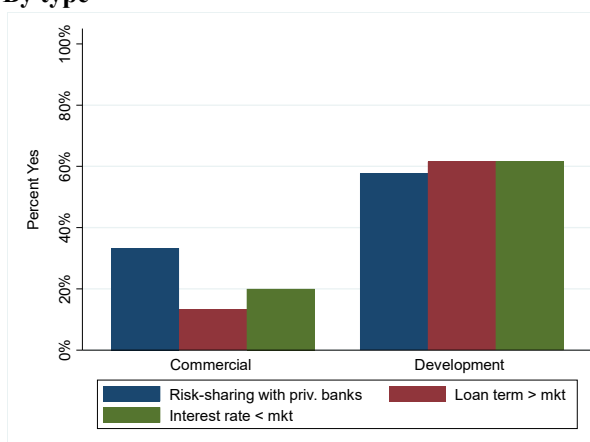


By granular region

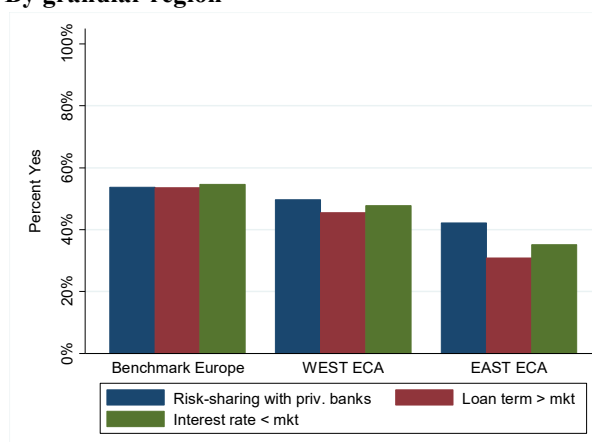


6b. Characteristics of lending

By type

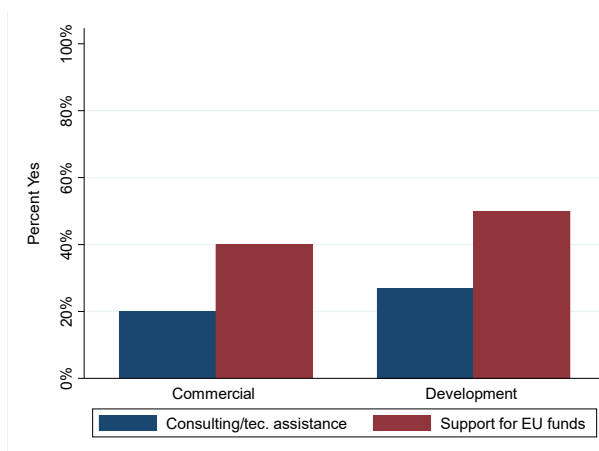


By granular region

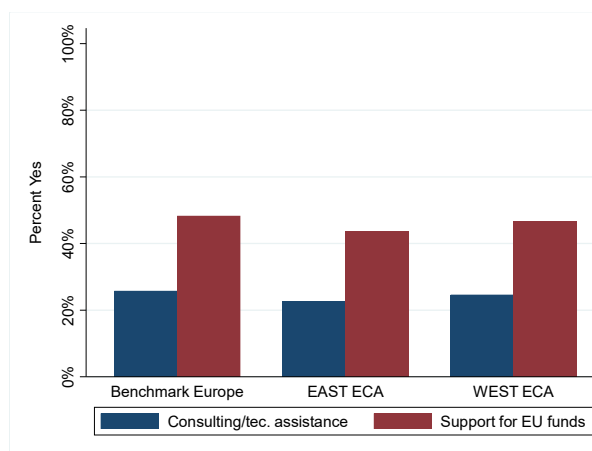


6c. Non-lending support

By type



By granular region



About 60 percent of Development SOFIs offer products that deviate from market conditions (i.e. in terms of maturity or rates) compared to just 20 percent of Commercial SOFIs (Figure 6b). Interestingly, this appears to prevail more in Benchmark Europe and West ECA rather than East ECA. There is some correlation between SOFIs that provide products that deviate from current market conditions and SOFIs that have a government guarantee on their debt. Of the 13 SOFIs that are characterized by this relationship, 12 are Development SOFIs, suggesting that benefits are possibly passed on to the ultimate beneficiary. Development SOFIs are also almost twice as likely to risk-share with private banks compared to Commercial SOFIs. Technical assistance is offered by just 25 percent of all SOFIs, but about 45 percent provide application assistance to enterprises that seek EU funding support (Figure 6c).

5.3.2 *Products*

Figure 7 reports the range of financial products offered by SOFIs and whether these products have been introduced since the 2007 crisis or not. Almost all Commercial SOFIs and over 60 percent of Development SOFIs offer credit guarantees, a product that has been long established among both types (Figure 7a).¹¹ About 40 percent of Commercial SOFIs offer leasing and factoring, and more than a third of Development SOFIs offer equity financing and venture capital. Half of the Commercial SOFIs and almost 60 percent of the Development SOFIs offer subsidized products. Very few SOFIs offer matching grants.

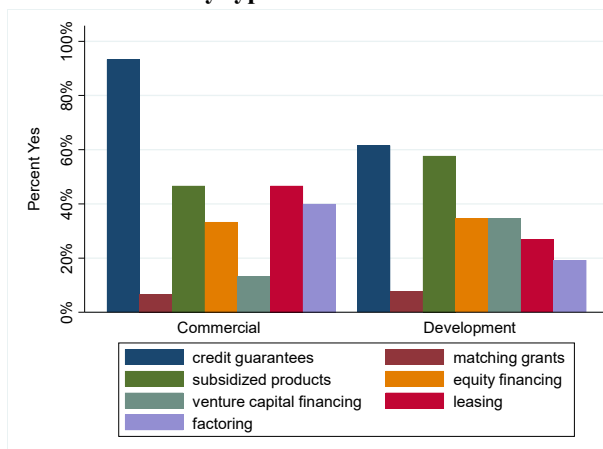
Turning to what products have been introduced since the GFC (Figure 7b), all SOFIs with matching grants report having only introduced them as a new product since 2007. For the other products, the crisis has also been a significant motivator, prompting their introduction in around half of the cases.

Turning to geographic comparisons, credit guarantees prevail across all ECA, as do subsidized products (Figure 7c). Venture capital financing is significantly more prevalent in EU countries and Benchmark Europe under the more granular classification, as is leasing and factoring in East ECA (possible given the higher presence of commercial banks). Benchmark Europe and West ECA SOFIs (that have a higher mix of Development SOFIs) have introduced most of their product mix after the 2007 crisis - mostly matching grants and venture capital financing, with West ECA SOFIs also focusing more on leasing and factoring. More than 60 percent of East ECA SOFIs have added subsidized products since the crisis (Figure 7d).

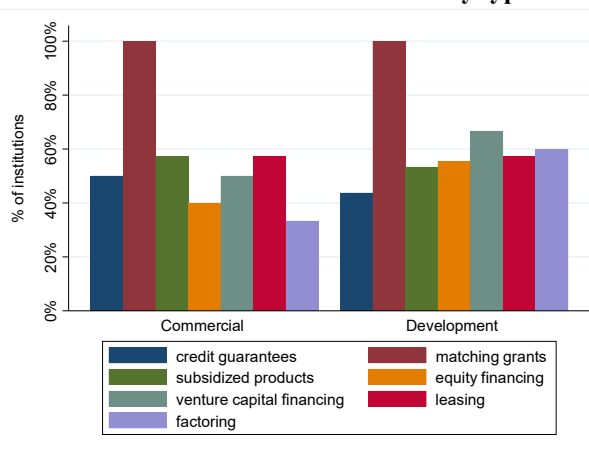
¹¹ The reference to the ‘credit guarantees’ bank product here is not to be confused with the ‘partial credit guarantee schemes’ outlined in Table 3.

Figure 7: Product mix and introduction since the crisis (2015)

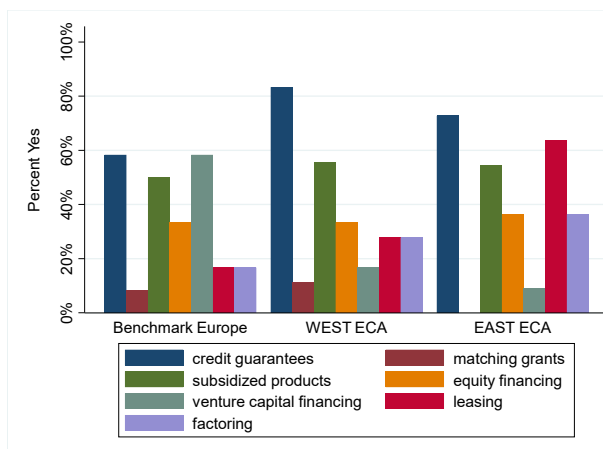
7a. Product mix by type



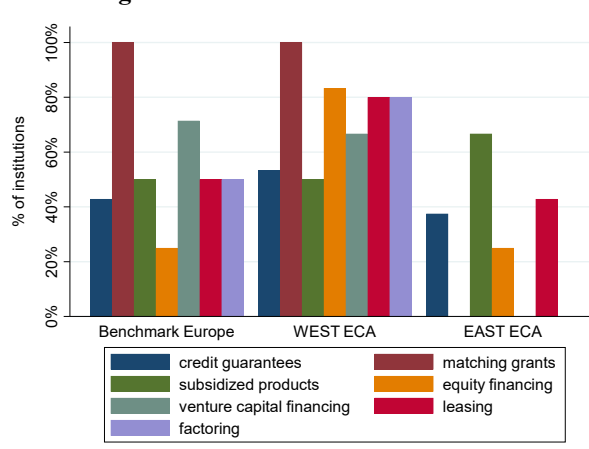
7b. Product introduction since the crisis by type



7c. Product mix across granular regions



7d. Product introduction since the crisis across granular regions



5.3.3 Asset and loan growth rates

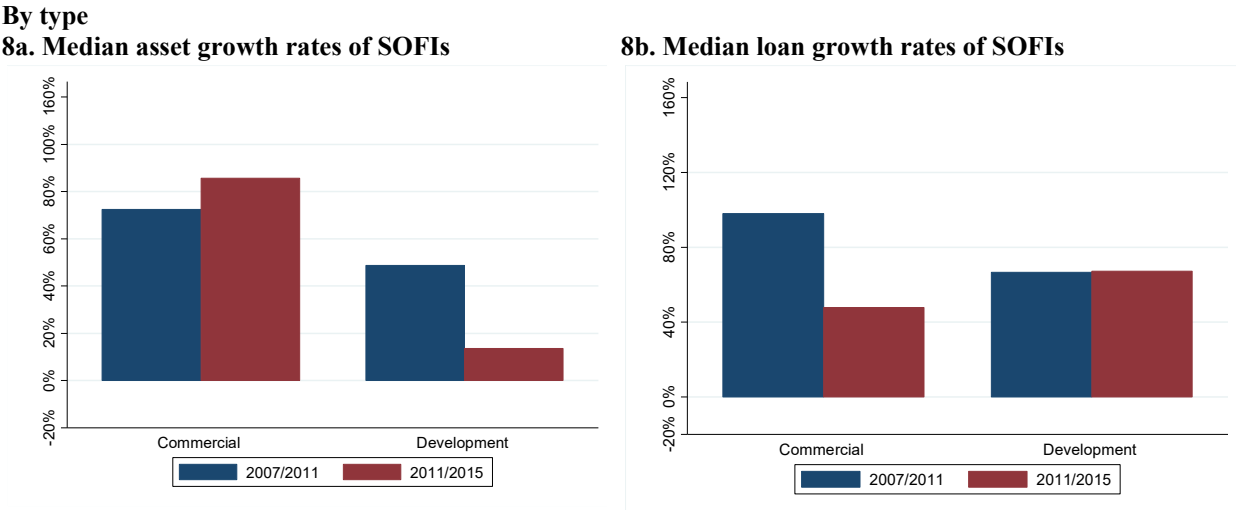
We examine asset and loan growth rates over two periods - between 2007 and 2011, and between 2011 and 2015 - trying to capture any effects associated with the GFC. Overall, we observe sustained median asset growth rates above 70 percent for Commercial SOFIs over the nine-year period post 2007 (Figure 8a). Development SOFIs median asset growth has been considerably more modest, with a significant containment in growth since 2011. Nonetheless, the distribution of the assets growth rates is wide for both SOFI types, including negative values, and should be interpreted with caution.¹²

¹² For instance, 10 Commercial SOFI and 8 Development SOFIs posted asset growth rates above 100 percent in the period between 2011 and 2015.

Turning to patterns in median loan growth rates and comparing them with the median asset growth rates (Figure 8b), some interesting observations emerge. While Commercial SOFIs expanded lending more in the period 2007-2011, the growth rate is roughly equal among all SOFIs post 2011. This may reflect the ability of Commercial SOFIs to react faster to periods of crisis, expanding and contracting their direct lending portfolio as needed (a more flexible instrument compared to on-lending). In addition, Commercial SOFIs median asset growth rate post 2011 surpasses the 2007-2011 period, while the median loan growth rate falls – this may suggest an expanded role in investment instruments such as government bonds etc. Meanwhile, Development SOFIs median asset growth falls significantly post 2011, but the median loan growth rate remains unchanged – possibly reflecting a continued focus on loans emanating from narrower policy mandates.

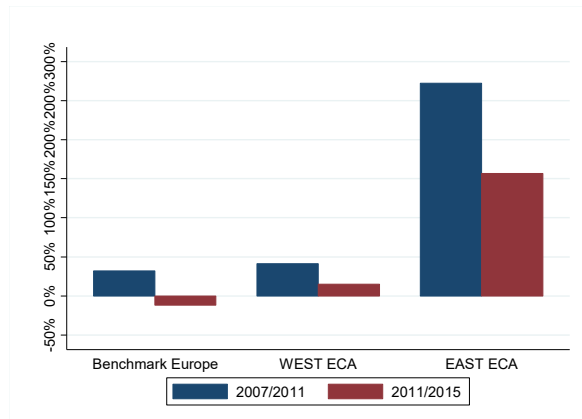
The breakdown by geographic areas points to significantly higher median asset and loan growth rates in East ECA compared to the other two regions (noting that most SOFIs operating in East ECA are Commercial SOFIs). Benchmark Europe and West ECA, characterized more by Development SOFIs, witnessed slowdowns in the asset growth rates post 2011 – possibly scaling back from the immediate post GFC support (Figure 8c). However, while West ECA sustained the median loan growth rates post 2011 (and at rates proportionally higher than that of median asset growth), Benchmark Europe experienced negative median growth rates in the period 2011-2015 (Figure 8d).

Figure 8: Assets and loans growth rates (2007 through 2015)

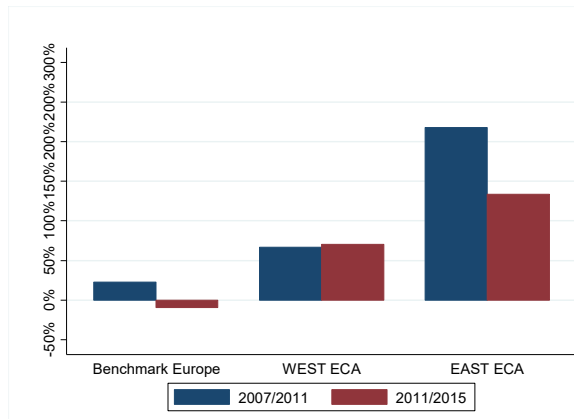


By granular region

8c. Median asset growth rates of SOFIs



8d. Median loan growth rates of SOFIs



Comparing the median asset and loan growth rates of SOFIs against the overall banking sector over the same periods,¹³ the trends are broadly in line, but some differences do emerge. Growth rates are higher overall for SOFIs in both periods under observation. Median asset and loan growth rates in East ECA for the overall banking sector are higher post 2011, while for SOFIs were higher in the period 2007/2011 compared to 2011/2015. For median loan growth rates, whilst SOFIs in Benchmark Europe experienced a contraction post 2011, the overall banking sector experienced positive (yet low) growth – possibly SOFIs scaled back post GFC as the private sector picked up or had to reduce their assets following State Aid decisions from the European Commission because of capital injections by their governments following the GFC. In West ECA, however, median loan growth by SOFIs post 2011 continues to be significantly higher than that observed for the overall banking sector that is subject to a growth slowdown.

Finally, considering the question of whether SOFIs with a countercyclical policy exhibited higher median asset and loan growth rates, this does not appear to be the case at the outbreak of the GFC – every SOFI expanded its balance sheet. However, SOFIs with an explicit countercyclical policy appear to have maintained high growth rates in the 2011-15 period, unlike SOFIs that lacked such a policy.

5.3.4 Lending sectors

Figure 9 reports the ranking of lending by economic sector. Overall, both Commercial and Development SOFIs concentrate heavily on manufacturing and energy. Commercial SOFIs do,

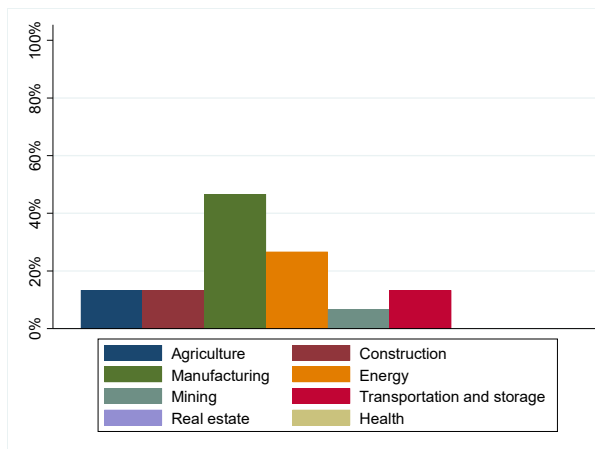
¹³ These results must be interpreted with caution, as the overall banking sector includes SOFIs.

however, appear to have higher exposures to agriculture and construction, and Development SOFIs are exclusively present in health and real estate, including low-income housing.

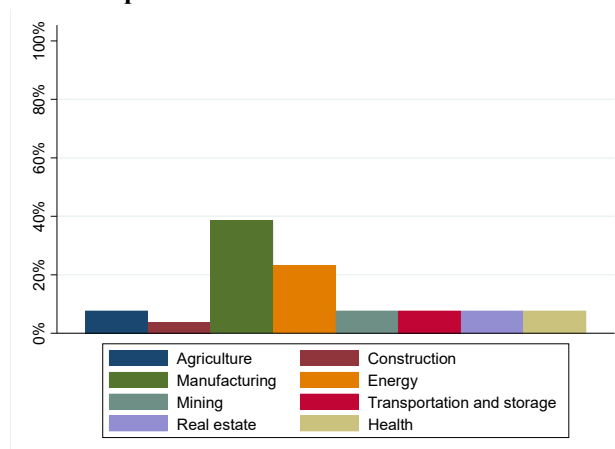
At the granular geographic cut, Benchmark Europe’s top lending sector is energy, West ECA’s is manufacturing, and East ECA’s is manufacturing and energy. Education and tourism do not show up as a core lending sector for any of the SOFIs. Agriculture is consistently present, but low compared to other sectors among the three regions. Finally, there appears to be a significantly higher incidence of lending to State Owned Enterprises (SOEs) in East ECA (Figure 10).

Figure 9: Ranking of lending by economic sector (2015)

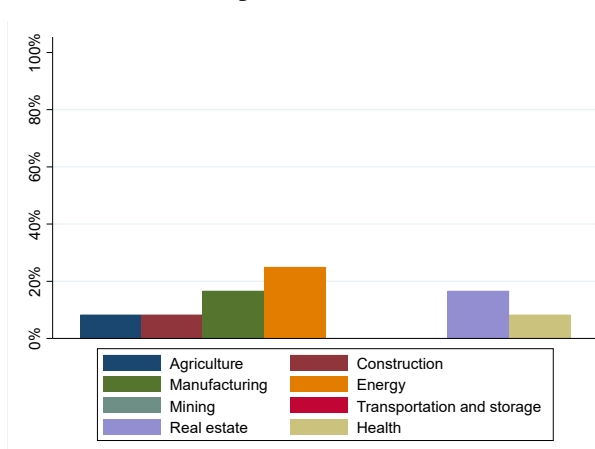
9a. Commercial



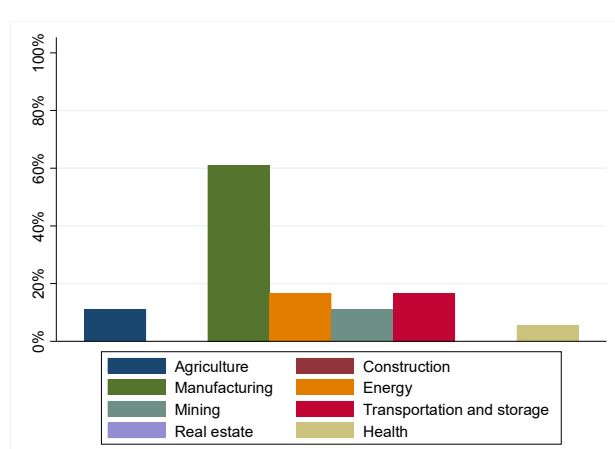
9b. Development



9c. Benchmark Europe



9d. WEST ECA



9e. EAST ECA

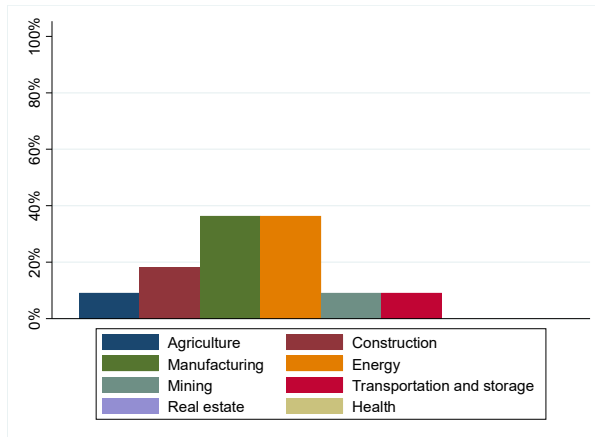
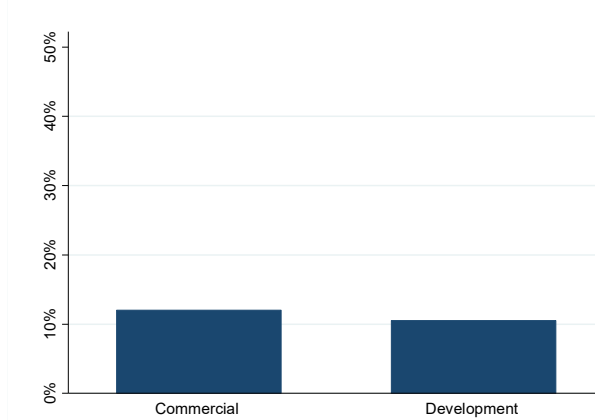
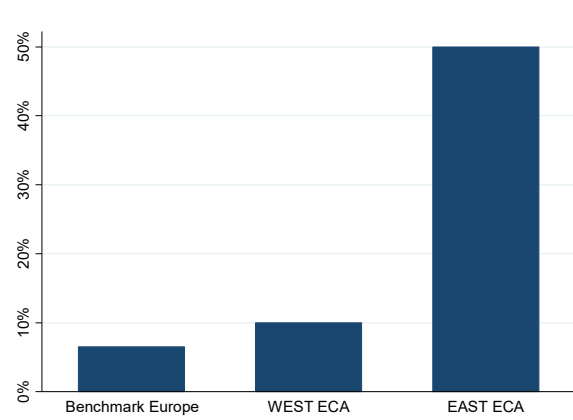


Figure 10: Median lending to SOEs (2015)

By type



By granular regions



5.4 Financial structure and performance

5.4.1 Funding

In terms of reported sources of funding (i.e. existence, not ranking of importance), slightly more Commercial than Development SOFIs report receiving government budget allocations, yet an overwhelmingly larger number of Development SOFIs report the use of government guarantees (Figure 11a). Both types of SOFIs make use of Multilateral Financial Institutions' (MFIs) funding, as well as issue bonds denominated in domestic and foreign currencies. Government budget allocation is more prevalent in non-EU countries probably reflecting EU restrictions on state aid for the sake of competitive neutrality. Under the more granular geographic specification, government budget allocation is more prevalent in East ECA compared to West ECA and Benchmark Europe. More Benchmark EU and East ECA SOFIs (the latter driven by high

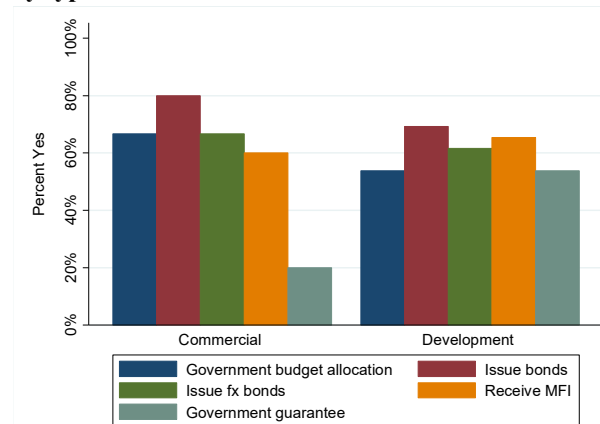
concentration of Commercial SOFIs) report securities among the sources of funding. MFI funding and government guarantees appear to be less prevalent in non-EU countries, and East ECA in particular, under the more granular geographic cut.

In terms of SOFIs' ranking of their use of specific sources of funding (as of end 2015), Commercial SOFIs rank highest the deposits from the general public (as expected), while Development SOFIs' most important sources of funding are the government, multilaterals and securities (Figure 11b).¹⁴ Interestingly, the four listed SOFIs (all Commercial SOFIs) only rank deposits as the most important source of funding, while non-listed offer a fairly diversified ranking. Turning to the more granular geographic specification, Benchmark Europe (followed by East ECA that is dominated by commercial banks) ranks by far securities as the most significant source of funding. East ECA ranking is dominated by deposits (retail and corporate), while West ECA ranks roughly equally retail deposits, government and multilateral funding (Figure 11c).

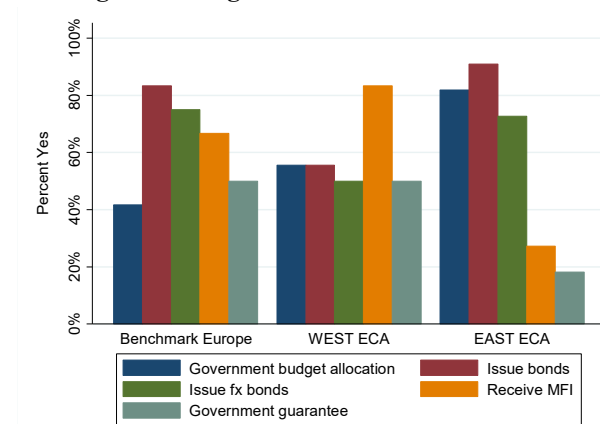
Figure 11: Financing structure (2015)

11a. Reported sources of funding (i.e. existence, not ranking)

By type

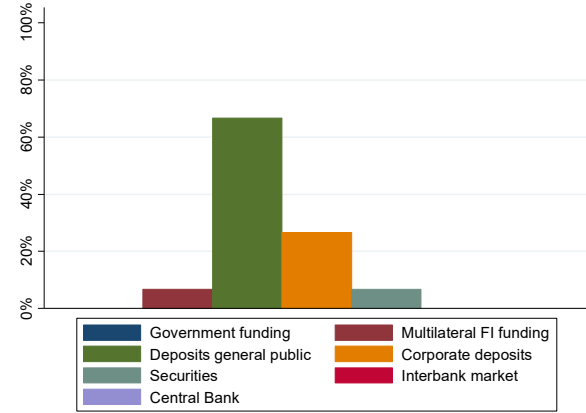


Across granular regions

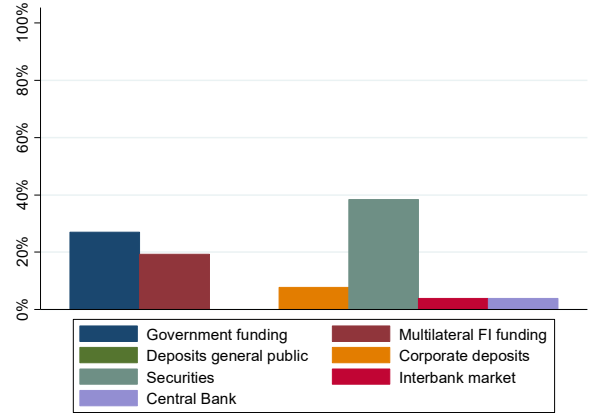


¹⁴ An Exim bank is the only Development SOFI that ranks central bank funding as top source of funding. In this specific case, the funding structure is the result of idiosyncratic central bank foreign exchange and liquidity measures.

11b. Most important source of funding (i.e. ranking)
Commercial SOFIs

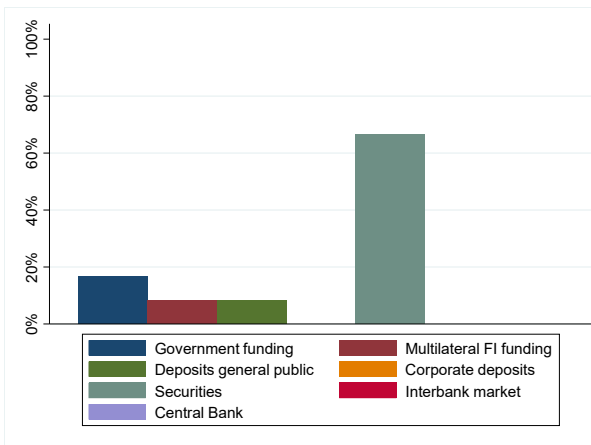


Development SOFIs

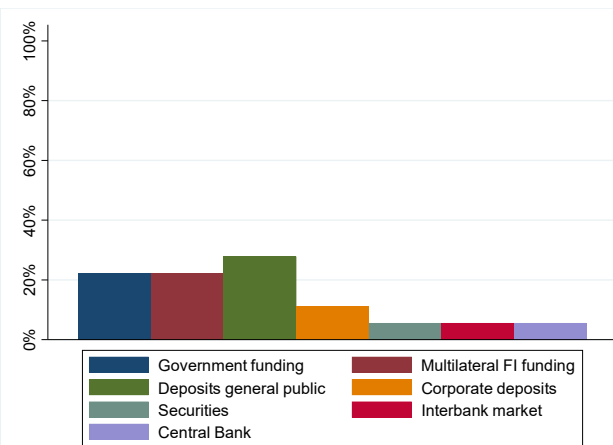


11c. Most important source of funding (i.e. ranking)

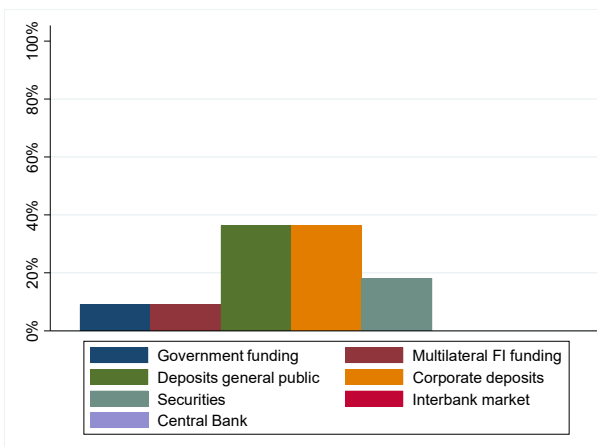
Benchmark EU



West ECA



East ECA



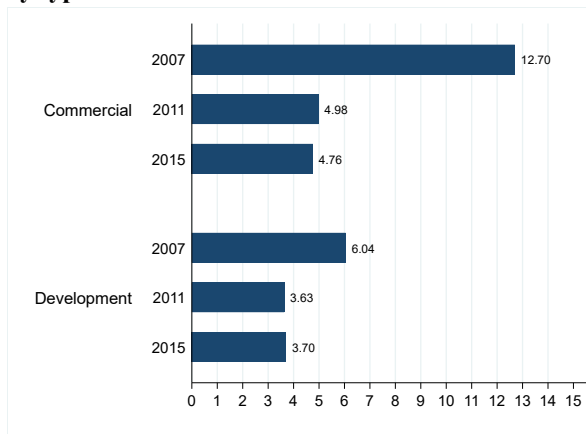
5.4.2 Profitability

Commercial SOFIs were considerably more profitable than Development SOFIs in 2007, as measured by the median Return on Equity (ROE). There was a significant drop in median profitability for Commercial and (less so for) Development SOFIs in the period from 2007 to 2011, although the trend somewhat stabilized thereafter (Figure 12a). Almost two-thirds of Commercial SOFIs distribute dividends, compared to one-third of Development SOFIs. Looking at the more granular geographic cut reveals that Benchmark Europe experienced a temporary increase in ROE in 2011. The stabilization in post 2011 median ROE is pronounced in West ECA, with East ECA’s continuing to experience a declining trend.

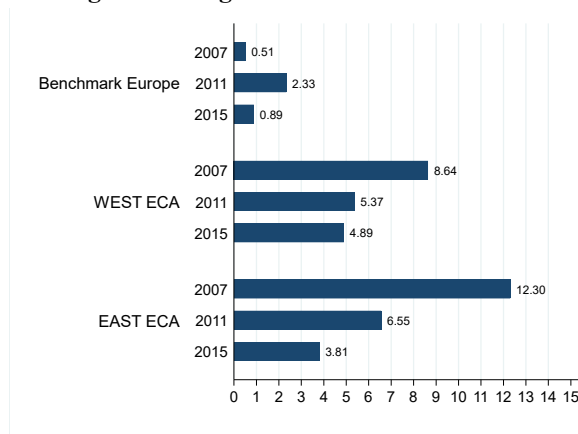
Overall, Commercial SOFIs exhibit higher interest and (particularly) non-interest income compared to Development SOFIs, as well as operating expenses (Figure 12b). This is expected, given a more profit oriented mandate, deposit-taking, and a higher emphasis on direct lending operations that requires an extended branch network. Looking at the more granular geographic classification, SOFIs based in Benchmark Europe have significantly lower operating costs, and are significantly more reliant on interest (rather than non-interest) income for their profitability.

Figure 12: Profitability (2007 through 2015)

**12a. Median ROE
By type**

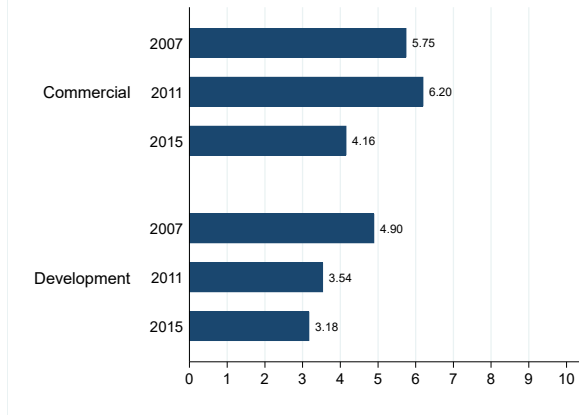


Across granular regions

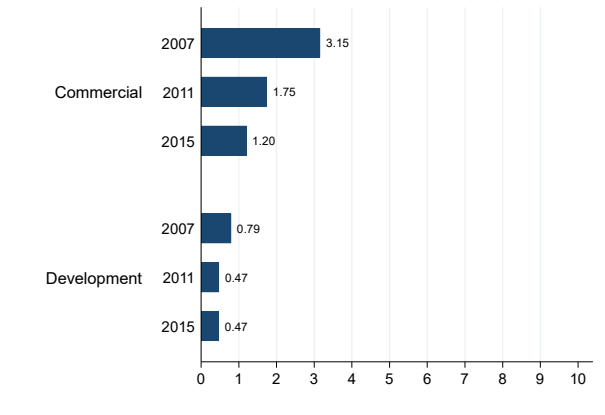


12b. By type

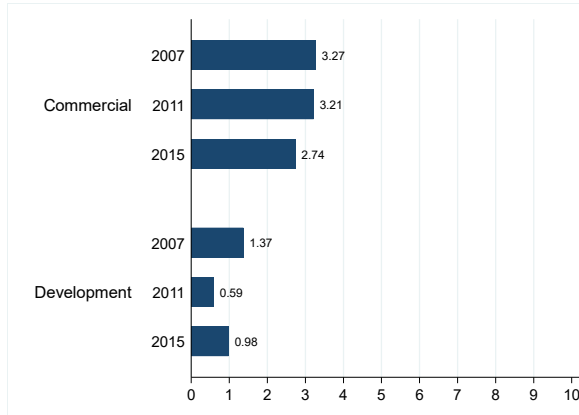
Median Interest income



Median non-interest income

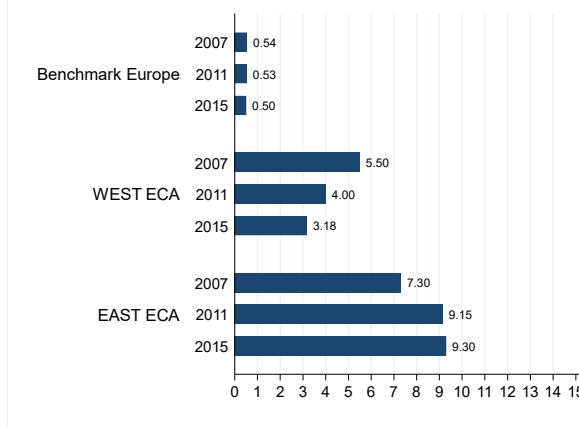


Median operating expenses

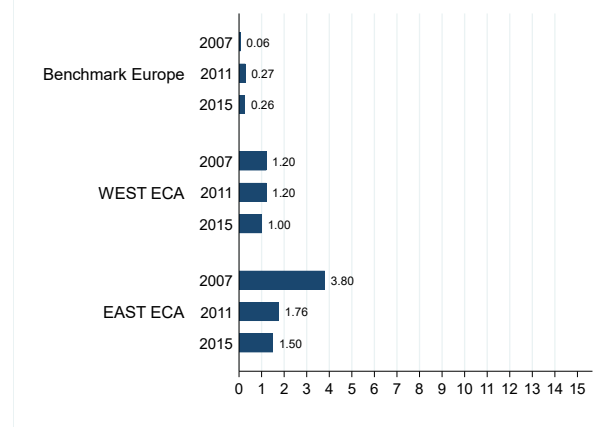


12c. Across granular regions

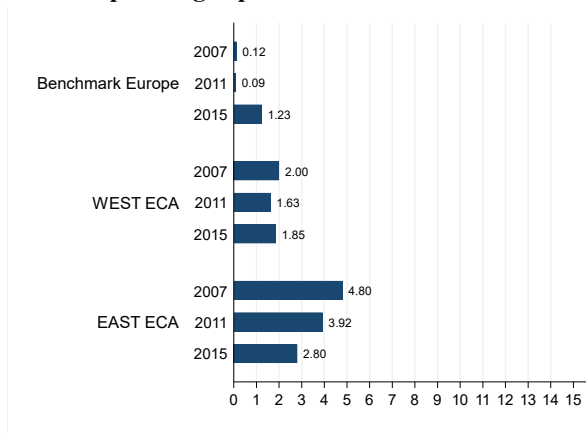
Median Interest income



Median non-interest income



Median operating expenses



Interest income is lower for all SOFIs in 2015 compared to 2007, except for SOFIs in East ECA (Figure 12c). Non-interest income is lower for all SOFIs in 2015 compared to 2007, except for SOFIs in Benchmark Europe. The SOFIs in Benchmark Europe appear minimally affected over the period under observation, while income appears to be dropping fast for West ECA during the reported period. At the same time, while operating expenses have been dropping among SOFIs in East ECA, there was only a relatively muted response in West ECA.

The overall banking sector's profitability, as measured by the median ROE, also show a decrease over time. Commercial SOFIs outperformed the overall banking sector in 2011, but not in 2007 and 2015. Development SOFIs median ROE, although always positive, has always been lower than median profitability of the banking sector.

5.4.3 Loan quality

Median NPL rates¹⁵ increased significantly both for Commercial and Development SOFIs, driven primarily by the direct lending operations (with a late pronounced hike in East ECA from 2011 to 2015, possibly related also to the 2014 oil price decline and sanctions on the Russian Federation). Median NPLs on direct lending do not seem consistently higher for Development rather than Commercial SOFIs, suggesting similar risk-taking behavior. Commercial SOFIs experienced a spike in median NPL rates earlier than the Development SOFIs (Figure 13a), possibly as a result of the on-lending/ direct lending instrument mix (with the latter allowing a more immediate reaction to the GFC), an issue of recognition, or reflecting their more immediate

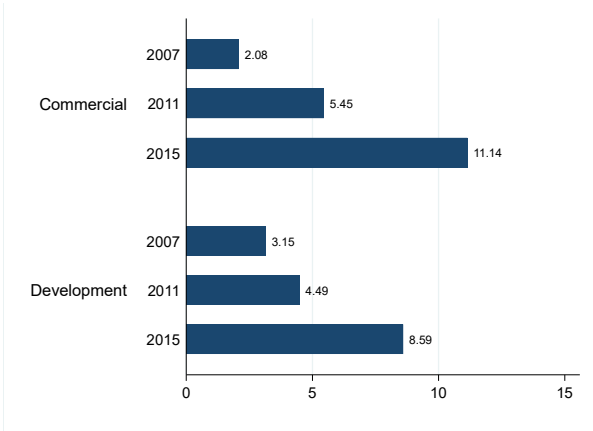
¹⁵ The comparison of NPL rates needs to be approached with caution, as the NPL definition can vary significantly from country to country, in addition to within countries when some SOFIs are not subject to the same regulatory standards as the rest of the banking sector.

counter-cyclical reaction to the GFC. Interestingly, the median NPL rate associated with SOEs is low, but more prevalent in West ECA followed by East ECA (Figure 13b).

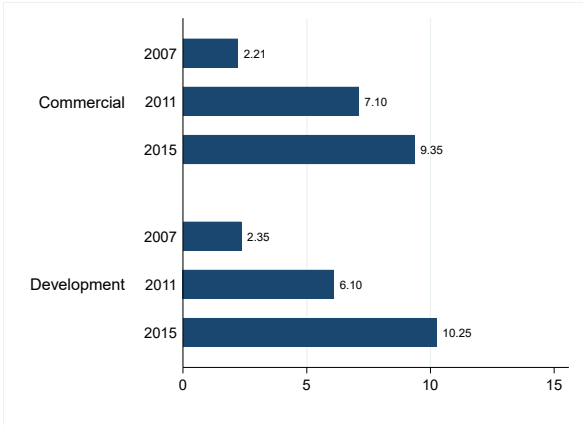
Median NPL rates for SOFIs have been lower than the rates for the overall banking sector for all the years under study. Looking at the developments by granular regions, SOFIs’ median NPL rates are lower than the overall banking sector in all sub-regions, except for East ECA in 2015.

Figure 13: Non-performing loans (2007 through 2015)

**13a. By type
Median NPL**



Median NPL on direct lending

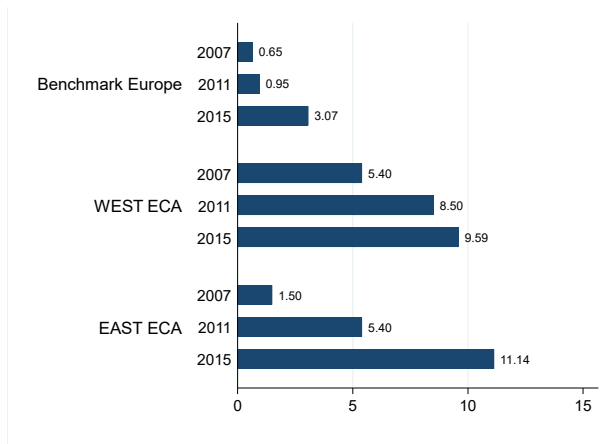


Median NPL on SOE

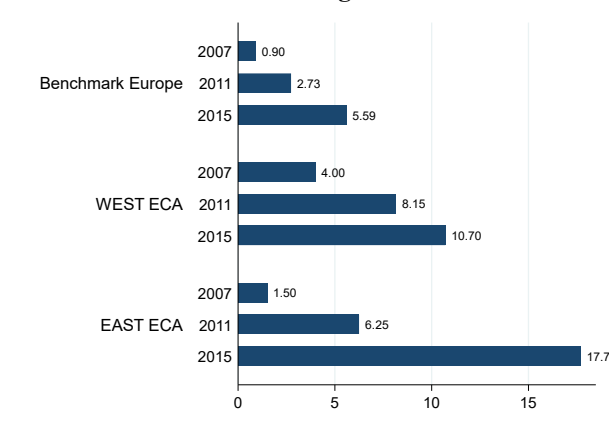


13b. By granular regions

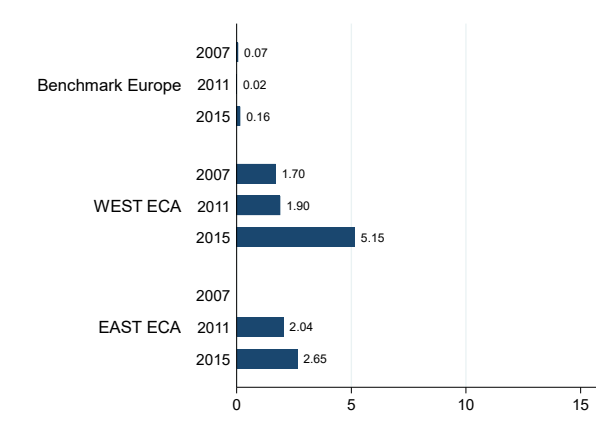
Median NPL



Median NPL on direct lending



Median NPL on SOE



5.4.4 Capital adequacy

Median capital adequacy ratios are relatively high among SOFIs, with the highest observed among Development SOFIs that have experienced an upward trend (Figure 14a). The upward trend is mostly driven by Benchmark Europe, whereas there is variability in the other two regions under the granular geographic classification. SOFIs in West ECA experienced an overall drop, but maintained high ratios. East ECA suffered a large drop in CAR after a spike in 2011, with nine institutions having been recapitalized in the region after the crisis (notably, 2014 marks the beginning of a dramatic drop in the oil price and remittances). Compared to the overall banking sector, SOFIs median CAR is higher (except for Benchmark Europe in 2007 and 2011).

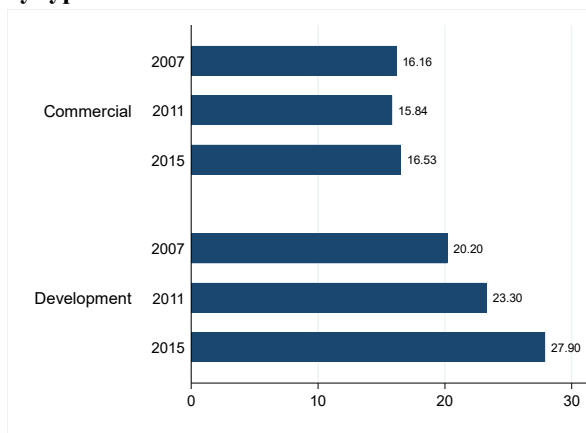
Since the GFC in 2007, several SOFIs - Commercial and Development, in EU and non-EU countries - have been recapitalized with government resources (Figure 14b). The percentage is lower in Benchmark Europe, but still stands over 40 percent (just 5 out of 12 institutions). In West

ECA, half of the institutions have been recapitalized, and in East ECA just two institutions out of 11 have not been recapitalized.

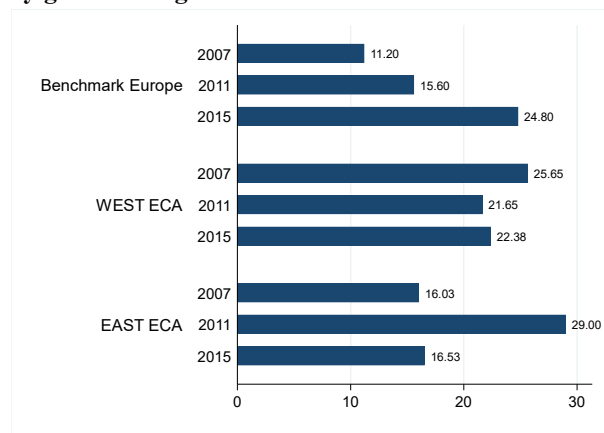
Figure 14: Capital adequacy ratios and recapitalizations (2007 through 2015)

14a. Median CAR

By type

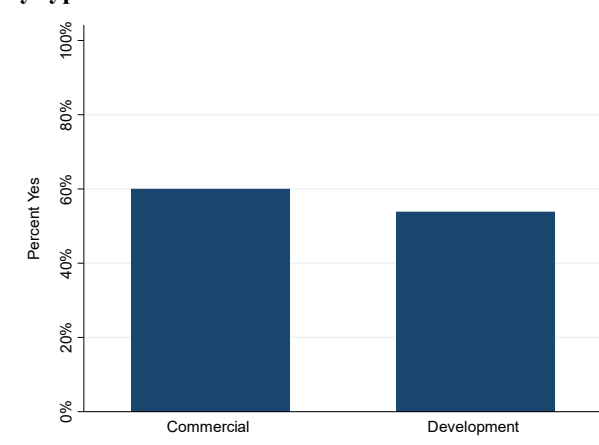


By granular regions

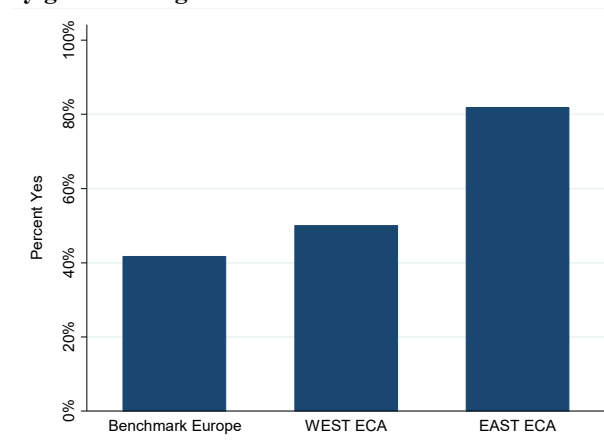


14b. Recapitalization

By type



By granular regions



5.5 Corporate governance

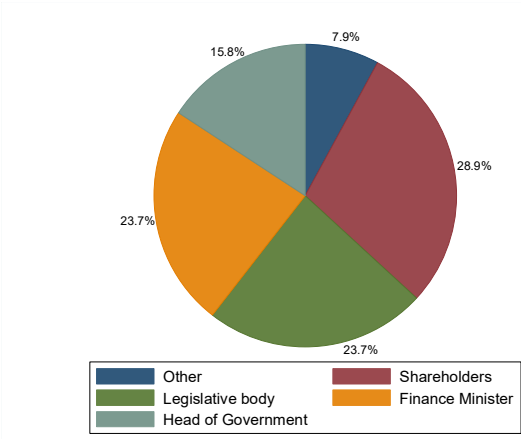
There is wide variation in the number of Supervisory Board (SB) members, with the smallest boards counting 2 members and the largest up to 15. The highest concentration of the number of SB members is in the range of 5 to 11 members, and there is no difference in the medians of Commercial versus Development SOFIs. In 30 percent of surveyed SOFIs, the SB has no independent member, but, in also 30 percent of the cases, all the members of the SB are independent. This difference does not appear to be driven by the SOFI type or geographical location.

The appointment of the SB is in 29 percent of the surveyed SOFIs by the shareholders (i.e. direct relationship with the government body associated with the holding of SOFI shares). In almost one-quarter of the cases responsibility lies with a legislative body and in another one-quarter with the Minister of Finance (Figure 15a). The appointment of the Chairman is equally split among the SB and another legislative body, with about 10 percent of the cases being with the Minister of Finance or ‘other’ decision making bodies (Figure 15b). In 80 percent of SOFIs the appointment is for fixed terms and the length of appointment is between 1 and 6 years.

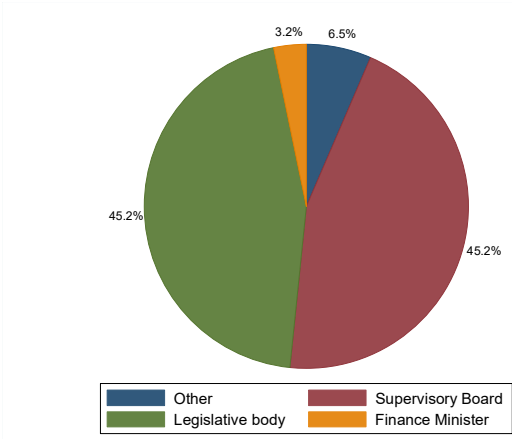
In most of the sampled SOFIs, there is a mismatch between who appoints the SB and to whom the SB is accountable to (Figure 15c). Commercial SOFIs are accountable either to shareholders or a cabinet official but in most of the cases there is another body appointing the members of the SB. Commercial SOFIs are accountable either to the Head of Government - in just one case though – or a legislative body, or shareholders or a cabinet official but in most of the cases there is a mismatch with the body appointing the members of the SB. Looking at the granular regions, in 60 percent of the cases that SOFIs in East ECA are accountable to shareholders, the shareholders also appoint the members of the SB.

Figure 15: Supervisory Board and Chairman

15a. Appointment of the Supervisory Board

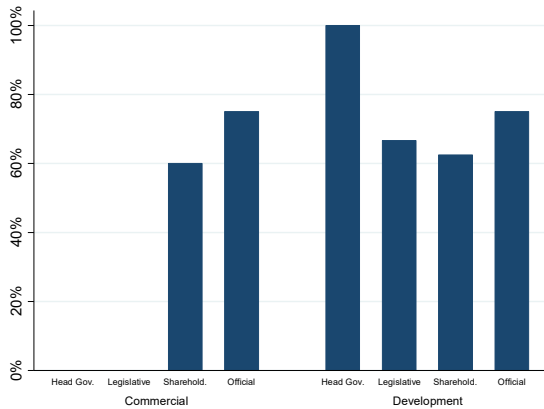


15b. Appointment of the Chairman

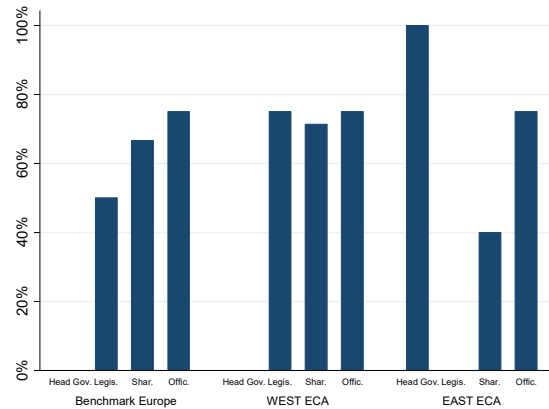


15c. Mismatch between accountability and appointment of the Supervisory Board

By type



Across granular regions

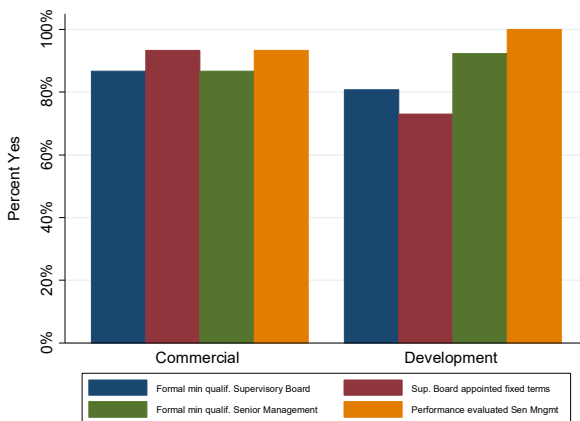


Development SOFIs are only slightly less likely than Commercial SOFIs to impose formal qualifications in hiring the members of the SBs and to offer fixed-terms contract - the percentage difference is not wide particularly regarding formal minimum qualifications (Figure 16a). Interestingly, not all Commercial SOFIs have minimum qualification criteria or evaluate senior management performance. Furthermore, having formal minimum qualification criteria for the SB members appears to almost double profitability (in terms of median ROE) and capital adequacy (in terms of median CAR), while dropping by about a third the median of the NPL ratio (Figure 16b).

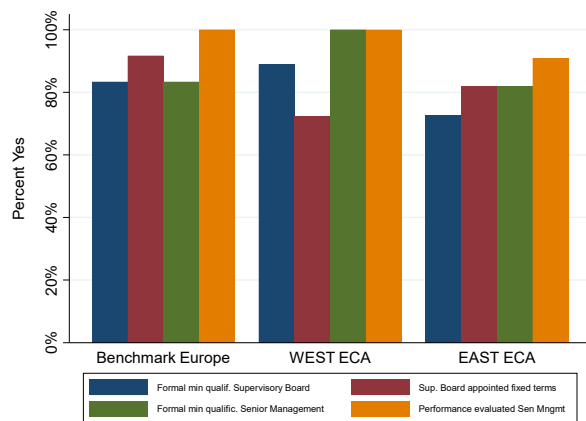
Figure 16: Formal minimum qualification criteria

16a. Supervisory Board and Senior Management

By type

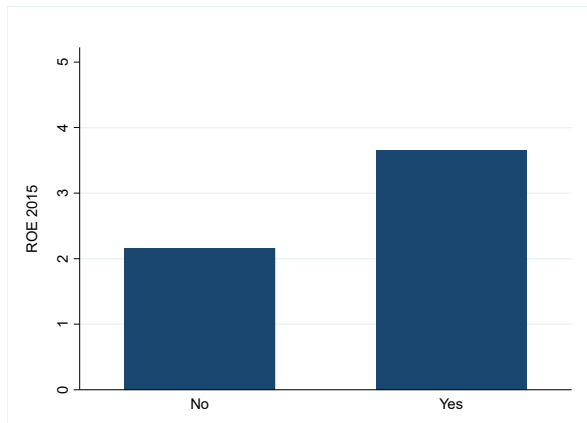


Across granular regions

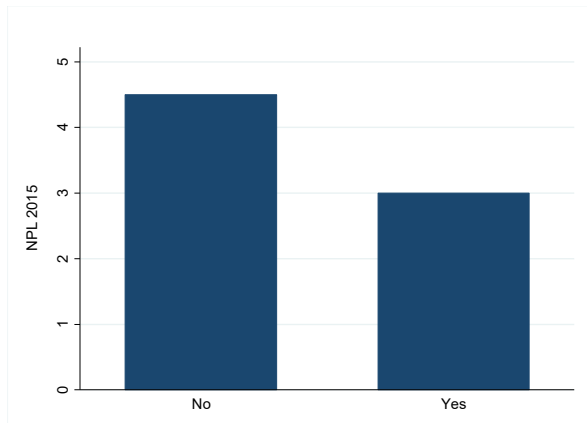


16b. Formal minimum qualification criteria and impact on performance (no/ yes)

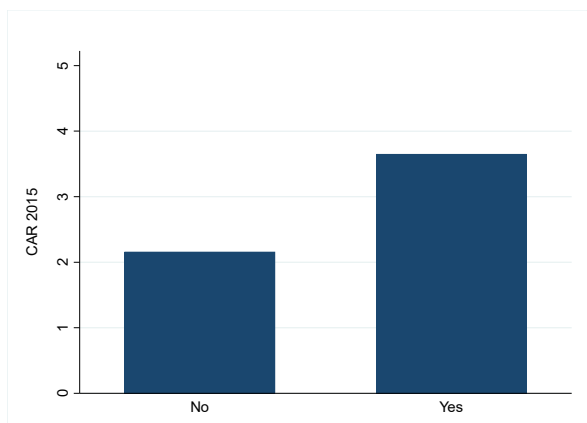
Median ROE



Median NPL



Median CAR

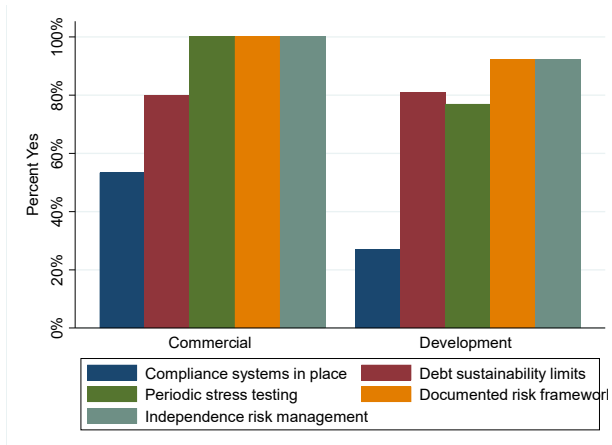


Just over 50 percent of Commercial SOFIs report having compliance systems in place (with the highest prevalence in Benchmark Europe), but still double the percent for Development SOFIs (Figure 17a). Only 65 percent of Development SOFIs report having the internal control function, and just 50 percent of all SOFIs have risk committees established (mostly absent in East ECA, Figure 17b).

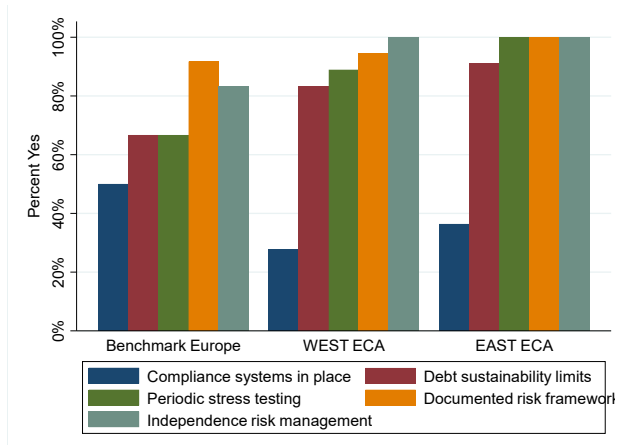
Figure 17: Corporate governance and risk management framework

17a. Key features

By type

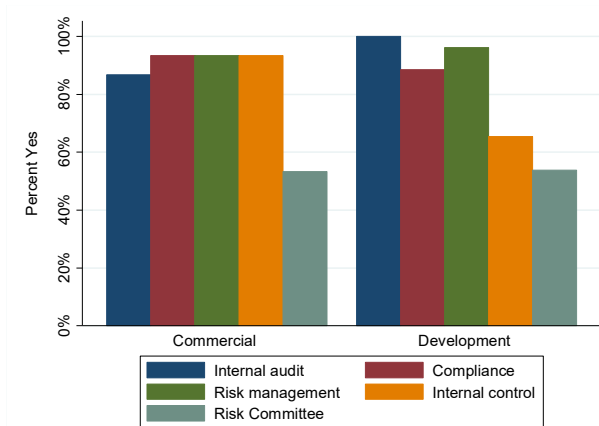


Across granular regions

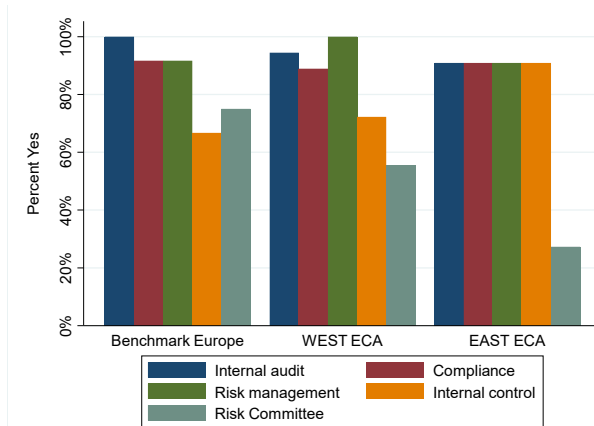


17b. Internal review functions

By type



Across granular regions

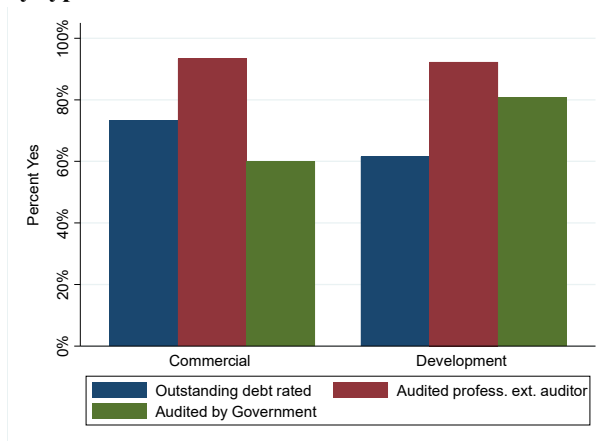


5.6 Monitoring and evaluation

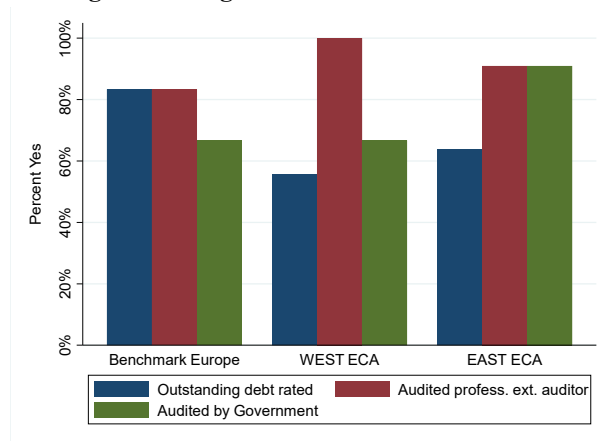
Monitoring appears to be similar across SOFI types, although Commercial SOFIs are less likely to be audited by the government (Figure 19). SOFIs in Non-EU countries have the lowest proportion of institutions with rated debt instruments.

Figure 18: Accountability and monitoring features

18a. Supervisory Board and Senior Management
By type



Across granular regions



Commercial and Development SOFIs define performance indicators to measure success differently (Figure 19a). Commercial SOFIs’ most likely measure of success is by loan volume, while the preferred success indicator for Development SOFIs is the number of clients served and products offered. Nevertheless, more than one in five Development SOFIs do not define performance indicators. The classification by granular region shows that in Benchmark Europe and West ECA, the most likely performance measure is the number of clients served and products offered, and in East ECA (dominated by Commercial SOFIs) it is the loan volume.

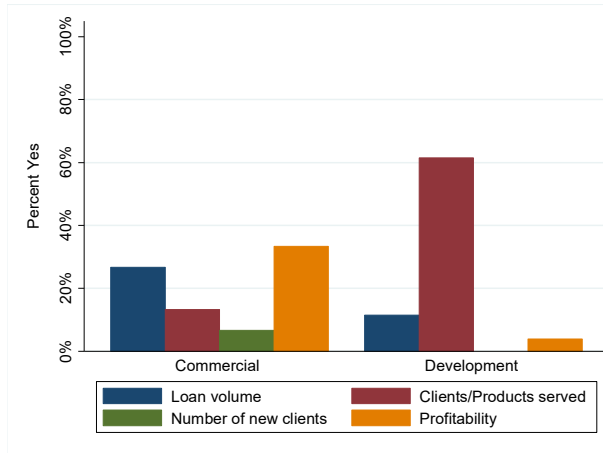
While most Commercial and Development SOFIs report progress against objectives in the annual report, about 15 percent of Development SOFIs do not do so. With respect to granular regions, progress against objectives is mostly reported in annual reports, but SOFIs in Benchmark Europe also utilize periodic statements as a significant mean of communication (Figure 19b).

Roughly half of the Commercial SOFIs undertake impact evaluations and slightly more than 60 percent of Development SOFIs do so (Figure 19c). Impact evaluations are more common in Benchmark Europe at about 75 percent, and equally common in West and East ECA at below 60 percent. Nevertheless, SOFIs overall do not have in house capacity to undertake impact evaluations (Figure 19d) - impact evaluation units are scarcely present, although slightly more prevalent among Commercial SOFIs (while the opposite would have been expected). The lack of impact evaluation units is in EU and non-EU countries, and it is noticeable that not a single SOFI in West ECA has one. Receiving funding from an MFI significantly increases the probability of undertaking an impact evaluation (SOFIs are about 65 percent more likely to do so).

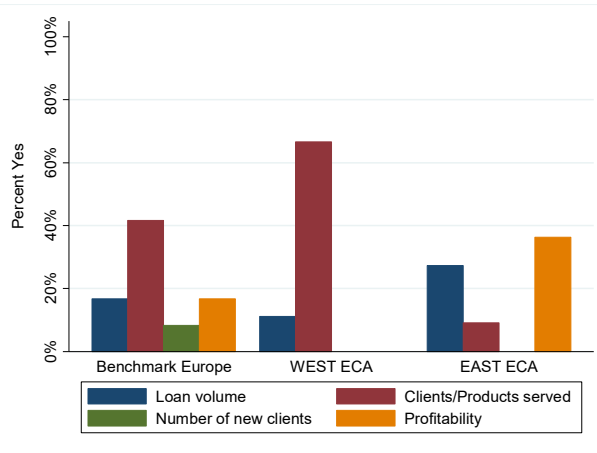
Figure 19: Monitoring and evaluation features

19a. Success indicator

By type

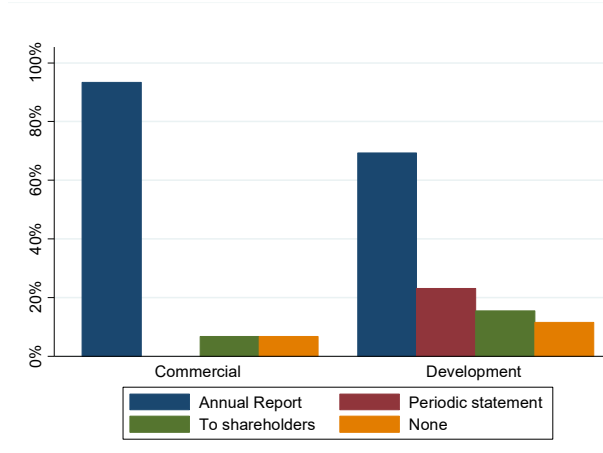


Across granular regions

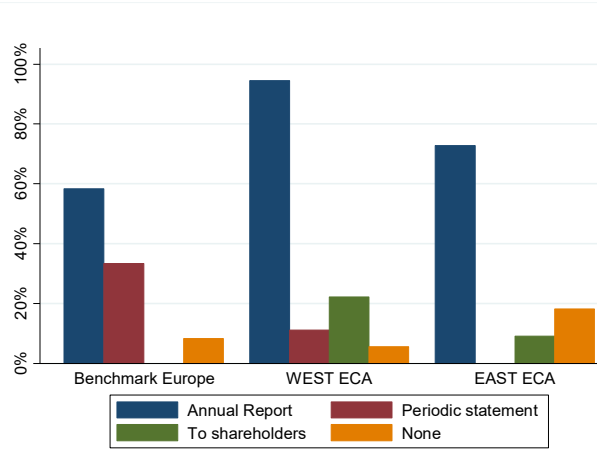


19b. Reporting Success Indicator

By type

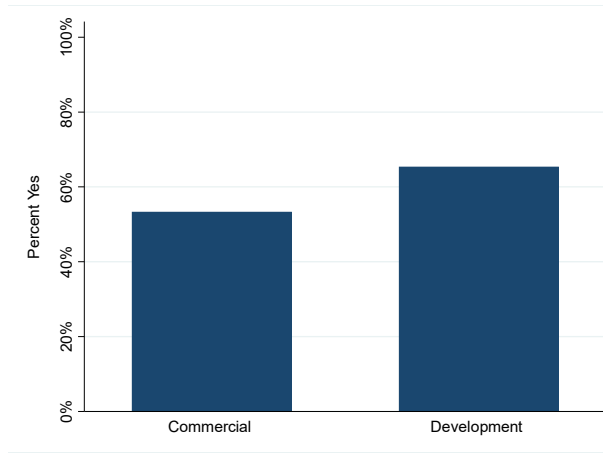


Across granular regions

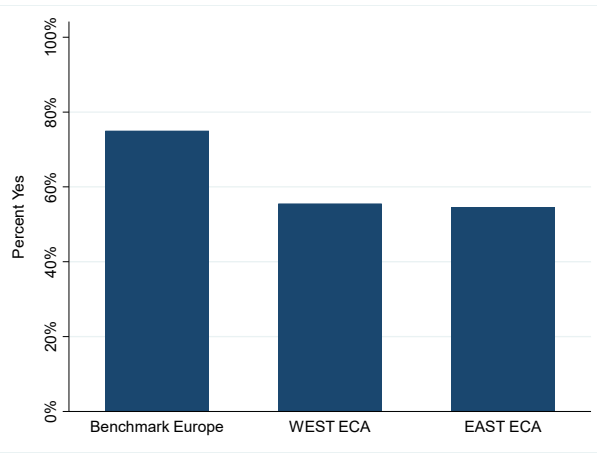


19c. Impact evaluation undertaken

By type

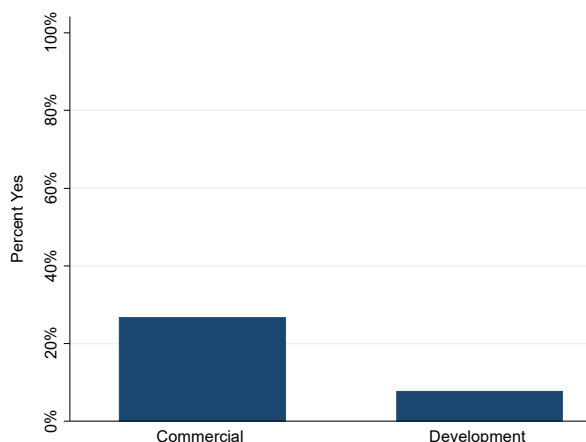


Across granular regions

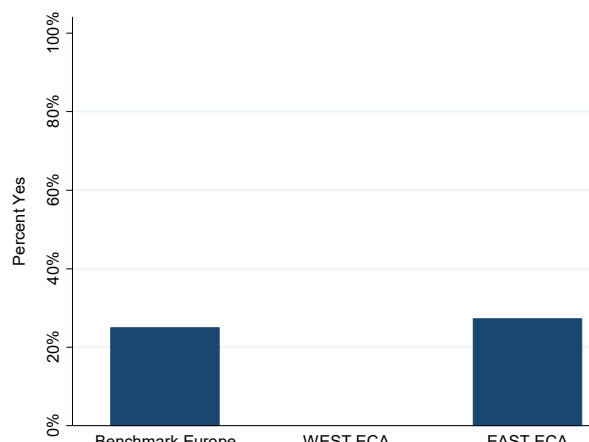


19d. Presence of impact unit

By type



Across granular regions



6 Concluding remarks

While the theoretical and empirical debate on state ownership in finance continues, the GFC renewed the interest of policy makers in SOFIs as a policy instrument. This is particularly visible in ECA, where the debate over SOFIs has had a long history, but recent initiatives suggest that the policy pendulum may have swayed in favor of SOFIs. This paper presents the main take-aways of a survey deployed to take stock and analyze Commercial and Development SOFIs in ECA and its sub-regions. Based on the replies of 41 institutions distributed across 21 countries, some interesting patterns emerge - although results need to be interpreted with caution as with any survey undertaking.

Evolution. Despite the liberalization policies that followed the transition from centrally-planned economies to market economies, over 60 percent of the SOFIs in the sample were created after 1990, and three of the four SOFIs created post-GFC were established in Benchmark Europe. The focus has increasingly been on Development SOFIs, as shown by the number of newly established institutions that more than doubled after 1990 and have sustained post-2007.

Mandates. Development SOFIs tend to have narrower mandates. All Commercial SOFIs established before 1990 had a specific policy mandate, but none did post 1990. SME financing dominates among sectoral objectives, and Development SOFIs appear significantly more focused on infrastructure. The Exim function is particularly pronounced in West ECA, aiming to benefit from the EU's geographic proximity. Furthermore, over half of ECA's SOFIs have a mandate that includes financial sustainability, and these SOFIs tend to have lower profitability and significantly

higher operating expenses. Just one out of four SOFIs has a countercyclical policy, and this is predominantly among Development SOFIs.

Instruments. About 70 percent of Development SOFIs combine direct and on-lending and of the remaining 30 percent only 10 percent absorb risk in other ways. About 60 percent of Development SOFIs offer products that deviate from market conditions (compared to just 20 percent among Commercial SOFIs). Development SOFIs are also almost twice as likely to risk-share with private banks compared to Commercial SOFIs. Technical assistance is offered by just a quarter of all SOFIs. Only 40 percent of Commercial SOFIs offer leasing or factoring, and just a third of Development SOFIs offer equity financing or venture capital. Very few SOFIs offer matching grants.

Governance. There is wide variation in the number of Supervisory Board members (mostly 5 to 11 SB members) and the number of independent members, yet differences do not appear to be driven by the SOFI type or geographical location. The responsibility for the appointment of the SB is also widely varied and often does not match the body that the SB is accountable to. Just 20 percent of SOFIs do not have minimum qualification criteria for the SB members, and those that do double profitability and capital adequacy levels, and cut NPL ratios by about a third. Just over half of Commercial SOFIs report having compliance systems in place (with the highest prevalence in Benchmark Europe), but still double the number for Development SOFIs. Only 65 percent of Development SOFIs report having an internal control function, and just half of all SOFIs have risk committees established (mostly absent in East ECA). Commercial SOFIs mostly measure success by loan volume, and Development SOFIs by the number of clients served and products offered. Nevertheless, more than one in five Development SOFIs does not define performance indicators. Roughly half of the SOFIs undertake impact evaluations, but do not have in house capacity to do so. Notably, receiving funding from a Multilateral Financial Institution increases the probability of undertaking an impact evaluation by 65 percent.

Intermediation characteristics. SOFIs concentrate heavily on manufacturing and energy (the former more prevalent in West ECA and the latter in Benchmark Europe). Commercial SOFIs appear to have higher exposures on agriculture and construction, and Development SOFIs are exclusively present in health and real estate. Agriculture is consistently targeted, but stands very low compared to other sectors. There appears to be a significantly higher incidence of lending to state-owned enterprises in East ECA. In terms of funding, Commercial SOFIs rank highest retail deposits (as expected), while Development SOFIs' most important sources of funding are the

government, multilaterals and securities. Benchmark Europe ranks by far securities as the most significant source of funding.

The impact of the GFC. Overall, all SOFIs expanded post GFC (at rates above the total banking sector), independent of whether their mandate included a countercyclical role. Commercial SOFIs expanded their loan portfolio faster than Development SOFIs and appear to have turned to investment instruments post 2011, possibly government bonds. On the other hand, Development SOFIs' median asset growth falls significantly post 2011, but the median loan growth rate remains unchanged – possibly reflecting a continued drive emanating from narrower policy mandates. Unlike other regions, Benchmark Europe experienced negative asset and loan growth rates post 2011 – possibly from actively scaling back from the immediate post GFC support.

The GFC impact on profitability was diverse. Commercial SOFIs were considerably more profitable than Development SOFIs in 2007, but experienced a more dramatic drop from 2007 to 2011, although the trend somewhat stabilized thereafter. As expected, Commercial SOFIs exhibit higher interest and (particularly) non-interest income compared to Development SOFIs, as well as operating expenses. NPLs increased significantly for all SOFIs, driven primarily by the direct lending operations that may also explain the earlier spike among Commercial SOFIs. Interestingly, the NPL rate associated with SOEs is low overall, and almost non-existent in Benchmark Europe.

Median capital adequacy ratios are high among SOFIs (and above the overall banking sector), with the highest ratios among Development SOFIs that have experienced an upward trend (driven by Benchmark Europe). Since the GFC, several SOFIs have been recapitalized, independent of type or location. The percentage is lower in Benchmark Europe, but still stands at over 40 percent. In East ECA just two out of 11 institutions have not been recapitalized.

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References

- Acharya, V. V., Agarwal, A. & Kulkarni, N. (2010). State Ownership and Systemic Risk: Evidence from the Indian financial sector during 2007–09. Unpublished paper, NYU–Stern, New York.
- Arrow, K. J., & Lind, R. C. (1970). Uncertainty and the evaluation of public investment decisions. *American Economic Review*, 60(3), 364-378.
- Barth, J., Caprio, G., & Levine, R. (2006). *Rethinking bank supervision and regulation: until angels govern*. New York: Cambridge University Press.
- Bertay, A., Demirgüç-Kunt, A., & Huizinga, H. (2015). Bank ownership and credit over the business cycle: Is lending by state banks less procyclical? *Journal of Banking & Finance*, 50, 326-339.
- Brei, M., & Schclarek, A. (2013). Public bank lending in times of crisis. *Journal of Financial Stability*, 9(4), 820-830.
- Coleman, N., & Feler, L. (2015). Bank ownership, lending, and local economic performance during the 2008–2009 financial crisis. *Journal of Monetary Economics*, 71, 50-66.
- Choi, M. J., Gutierrez, E., & Martinez Peria, M. S. (2016). Dissecting Foreign Bank Lending Behavior During the 2008–2009 Crisis. *Financial Markets, Institutions & Instruments*, 25(5), 361-398.
- Cull, R., & Martinez Peria, M.S. (2013). Bank ownership and lending patterns during the 2008–2009 financial crisis: evidence from Latin America and Eastern Europe. *Journal of Banking & Finance*, 37(12), 4861-4878.
- Cull, R., Martinez Peria, M.S. & Verrier, J. (2017). *Bank Ownership: Trends and Implications*. International Monetary Fund. Washington, DC, USA: IMF Working Paper 17/60.
- de la Torre, A., Gozzi, J. C., & Schmukler, S. L. (2017). *Innovative Experiences in Access to Finance: Market-Friendly Roles for the Visible Hand?* World Bank. Washington, DC, USA. doi: 10.1596/978-0-8213-7080-3.
- De Marco, F., & Macchiavelli, M. (2016). The political origin of home bias: The case of Europe. Available at SSRN: <https://ssrn.com/abstract=2441981>
- Dinç, I. S. (2005). Politicians and banks: Political influences on government-owned banks in emerging markets. *Journal of financial economics*, 77(2), 453-479.

European Commission (2015). Working together for jobs and growth: The role of National Promotional Banks (NPBs) in supporting the Investment Plan for Europe. COM/2015/0361 final.

Gould, D. M., & Melecky, M. (2017). Risks and Returns: Managing Financial Trade-Offs for Inclusive Growth in Europe and Central Asia. Europe and Central Asia Studies, The World Bank. Washington, DC, USA: World Bank

Gutierrez, E., Rudolph, H., Homa, T., & Beneit, E. (2011). Development banks: role and mechanisms to increase their efficiency. The World Bank. Washington, DC, USA: World Bank Policy Research Working Paper 5729.

Honohan, P. (2010). Partial credit guarantees: principles and practice. *Journal of Financial Stability*, 6(1), 1-9.

Iannotta, G., Nocera, G., & Sironi, A. (2007). Ownership structure, risk and performance in the European banking industry. *Journal of Banking & Finance*, 31 (7), 2127-2149.

Iannotta, G., Nocera, G., & Sironi, A. (2013). The impact of government ownership on bank risk. *Journal of Financial Intermediation*, 22(2), 152-176.

Levy-Yeyati, E. L., Micco, A., & Panizza, U. (2004). Should the government be in the banking business? The role of state-owned and development banks. Inter-American Development Bank. Washington DC, USA: Research Department Working Paper 517.

Luna-Martinez, D., & Vicente, C. (2012). Global survey of development banks. The World Bank. Washington, DC, USA: World Bank Policy Research Working Paper 5969.

Mazzucato, M., & Penna, C. C. (2016). Beyond market failures: The market creating and shaping roles of state investment banks. *Journal of Economic Policy Reform*, 19(4), 305-326.

Micco, A., & Panizza, U. (2006). Bank ownership and lending behavior. *Economics Letters*, 93(2), 248-254.

Roaf, J., Atoyan, R., Joshi, B., & Krzysztof Krogulski (2014). 25 Years of Transition: Post-Communist Europe and the IMF. The International Monetary Fund. Washington, DC, USA: Regional Economic Issues Special Report.

Rudolph, H. (2009). State financial institutions: mandates, governance, and beyond. The World Bank. Washington, DC, USA: World Bank Policy Research Working Paper 5141.

Scott, D. (2007). Strengthening the governance and performance of state-owned financial institutions. The World Bank. Washington, DC, USA.: World Bank Policy Research Working Paper 4321.

Shleifer, A., & Vishny, R. (1997). A survey of corporate governance. *Journal of Finance*, 52, 737–783.

Shleifer, A., & Vishny, R. (1998). *The grabbing hand: Government pathologies and their cures*. Cambridge, MA: Harvard University Press.

The World Bank (2012). *Global Financial Development Report 2013: Rethinking the Role of the State in Finance*. Washington, DC. doi: 10.1596/978-0-8213-9503-5.

Appendix I: The survey questionnaire

| I General Information | |
|--------------------------------------|--|
| 1 | Name of your institution |
| 2 | Is your institution a financial group? |
| 3 | Country |
| 4 | Year of establishment |
| 5 | Total assets of your institution as at the end of (in local currency millions) |
| | 2007; 2011; 2015 |
| 6 | Total gross loan portfolio as at the end of (in local currency millions) |
| | 2007; 2011; 2015 |
| 7 | Total liabilities (i.e, no equity included here) as at the end of (in local currency millions) |
| | 2007; 2011; 2015 |
| 8 | Number of branches as at the end of 2015 |
| 9 | Number of employees as at the end of 2015 |
| 10 | Do you have any domestic financial subsidiaries? |
| 11 | Please explain if these companies have a special purpose (e.g. leasing, factoring, etc.) and report the total assets as at the end of 2015 as percentage of the consolidated total assets |
| 12 | Do you have any foreign branches or financial subsidiaries? |
| 13 | Please specify the primary purpose for the presence in the specific regions and countries (e.g. trade, expansion, etc.). |
| 14 | Is your institution listed? |
| 15 | What percent is floated in the market as of the end of 2015? |
| II Legal Status and Ownership | |
| 16 | Is your institution a |
| | Commercial bank (i.e., profit maximizers without a policy mandate, collect deposits from the public and use them to directly lend to firms and individuals) |
| | Development bank (i.e., have a policy mandate, do not take deposits, and are funded by IFIs, bonds or government transfers. They on-lend or lend directly to firms in specific sectors, e.g. SMEs and exports) |
| | Hybrid (i.e, have a policy mandate but perform commercial banking activities, collect deposits from the public and use them to directly lend to firms and individuals. They act as a government agent in administering state subsidies and other programs) |
| | Other (please specify) |
| 17 | Was the institution created by a specific Law or Act? |
| 18 | Has the institution been always a state-owned bank? |
| 19 | If the institution has been nationalized, what was the reason? |
| 20 | List the top five stockholders and their respective ownership stake in percent as of the end of 2015. |

| III Mandate and Mission | |
|--------------------------------|---|
| 21 | Does the institution have a specific policy mandate? |
| 22 | Has the policy mandate been revised over the last 10 years? |
| 23 | What caused the revision? |
| 24 | Does the institution have an explicit policy mandate in (multiple entries are possible) |
| | SMEs financing |
| | Agriculture |
| | Infrastructure |
| | International Trade (Exim function) |
| | Other (please specify) |
| 25 | If you perform exim function, please rank in order of importance (1 being the most important) the geographic scope of your institution (n/a if it is not applicable). |
| | Africa |
| | East Asia and Pacific |
| | Europe |
| | Central Asia |
| | Latin America and the Caribbean |
| | Middle East and North Africa |
| | South Asia |
| | North America |
| | Turkey |
| | Russia |
| | National |
| 26 | Does the mandate include financial sustainability objectives (e.g., capital maintenance)? |
| 27 | Is your institution required by the State/Government to achieve a minimum rate of return on your capital or equity? |
| 28 | Is the institution's social/developmental objective to (multiple entries are possible) |
| | maximize profits |
| | achieve a social objective (e.g. financing projects not traditionally served due to market failures, or projects that are unprofitable yet socially valuable) |
| | Other (please specify) |
| 29 | Please rank the importance of the following target markets (1 being the most important). |
| | Individuals and households |
| | Start-ups |
| | Micro enterprises |
| | Small and medium sized firms |
| | Large private corporations |

| | |
|--------------------------------|--|
| | State-owned enterprises |
| IV Financing Structure | |
| 30 | Does your institution receive periodically government budget allocation for specific programs (e.g., interest rate subsidies, social programmes, SME financing, environmental and climate protection, etc.)? |
| 31 | Please specify the type of program |
| 32 | Has your institution been recapitalized with public money in the last 10 years? |
| 33 | Please state the reason (e.g., financial distress, social programs, etc.) and the amount disbursed. |
| 34 | Does your institution issue bonds? |
| 35 | Does it issue foreign currency bonds? |
| 36 | Does your institution receive funding from multilateral financial institutions (e.g. IBRD, EBRD, CEB, ADB, etc.)? |
| 37 | Please list the names of the main MFIs (e.g. IBRD, EBRD, CEB, ADB, etc.) as of the end of 2015. |
| 38 | Please rank (1 being the highest value) key financial liabilities of your institution by amounts outstanding (in domestic currency) as of the end of 2015. |
| | Government funding |
| | Multilateral financial institutions funding |
| | Deposits from the general public |
| | Corporate deposits |
| | Securities |
| | Interbank market |
| | Central Bank |
| 39 | Does the government guarantee your institution's debt? |
| V Products and Services | |
| 40 | Does your institution lend through? (multiple entries possible) |
| | direct loans to final customers |
| | on-lend to final customers through other financial intermediaries (also known as wholesale/ apex/ II tier) |
| | none of the above (Please explain) |
| 41 | Do you share risk with private banks while providing loans to final customers? |
| 42 | How much of your lending as percent of total lending is provided to state owned entities (e.g., corporates)? |
| 43 | If you operate in the EU, does state aid rule negatively affect your institution? |
| 44 | Please rank the following subsectors in order of importance for direct and on lend (1 being the most important). |
| | Agriculture |
| | Construction |
| | Manufacturing |
| | Energy |
| | Mining |

| | |
|---|---|
| | Transportation and storage |
| | Real estate |
| | Education |
| | Health |
| | Tourism |
| 45 | Is the average loan term (maturity) offered by your institution greater than the market? |
| 46 | Please, explain what factors contribute to a maturity greater than the market. |
| 47 | Is the average annual interest rate on loans less than the market? |
| 48 | Please explain what factors contribute to an interest rate lower than the market rate (e.g., subsidy and cheaper funding) |
| 49 | Please select if the following products are offered as of the end of 2015. |
| | credit guarantees |
| | matching grants |
| | subsidized banking services and products (e.g., interest rates) |
| | equity financing |
| | venture capital financing |
| | leasing |
| | factoring |
| 50 | Please check the box if any of the products in 49 have been introduced since 2007 (Global Financial Crisis). |
| 51 | Does the institution provide consulting/technical assistance (e.g., development of growth strategies, HR strategy, accounting, etc.)? |
| 52 | Does the institution have a specific policy for increasing lending during economic recessions or financial crisis (i.e. counter-cyclical role)? |
| 53 | Does your institution provide support for the application process for EU funds? |
| VI Profitability, asset quality and capital adequacy | |
| 54 | What was the institution's Return on Assets (%) (ROA) at the end of: |
| | 2007; 2011; 2015 |
| 55 | What was the institution's Return on Equity (%) (ROE) at the end of: |
| | 2007; 2011; 2015 |
| 56 | What was the institution's non-performing loan ratio (%) at the end of: |
| | 2007; 2011; 2015 |
| 57 | What was the institution's non-performing ratio on direct lending (%) at the end of: |
| | 2007; 2011; 2015 |
| 58 | What was the institution's non-performing ratio on lending to state owned entities (%) at the end of: |
| | 2007; 2011; 2015 |
| 59 | What was the institution's Interest Income as percentage of Total Assets (%) at the end of: |
| | 2007; 2011; 2015 |

| | |
|---|---|
| 60 | What was the institution's Non-Interest Income as percentage of Total Assets (%) at the end of: |
| | 2007; 2011; 2015 |
| 61 | What was the institution's Operating Expenses as percentage of Total Assets (%) at the end of: |
| | 2007; 2011; 2015 |
| 62 | What was the institution's overall Capital Adequacy Ratio (%) at the end of: |
| | 2007; 2011; 2015 |
| 63 | Does your institution pay dividends? |
| VII Corporate Governance and Supervisory Board | |
| 64 | How many members compose your institution's Supervisory Board (i.e. non-managing board that oversees the management board)? |
| 65 | Who appoints the members of the Supervisory Board? |
| | the Head of Government (e.g., President, Prime Minister) |
| | the Finance Minister or other cabinet level official |
| | a legislative body such as the Parliament or Congress |
| | Other (please specify) |
| 66 | Are there formal (i.e., recorded in an official document) minimum qualification criteria to appoint the members of Supervisory Board? |
| 67 | Are the members of Supervisory Board appointed for fixed terms? |
| 68 | How long is their term? Please specify in number of years. |
| 69 | How many Supervisory Board members are government officials or elected by the Head of Government/Finance Minister? |
| 70 | How many Supervisory Board members are independent (i.e., not affiliated with government agencies)? |
| 71 | Who appoints the Chairman? |
| | the Head of Government (e.g., President, Prime Minister) |
| | the Finance Minister or other cabinet level official |
| | a legislative body such as the Parliament or Congress |
| | Other (please specify) |
| 72 | Can the Chairman be removed? |
| 73 | Who can remove the Chairman? |
| 74 | Are there formal (i.e., recorded in an official document) minimum qualification criteria for the appointment of senior management? |
| 75 | Is the performance of management and senior management evaluated? |
| 76 | Does the chief risk officer report to |
| | Board of Directors or Board Committee |
| | Chairman |
| | Chief executive officer |
| | Other (please specify) |

| | |
|--|---|
| 77 | Which internal review functions / departments exist in your institution? (multiple entries possible) |
| | Internal audit |
| | Compliance officer/department |
| | Risk management |
| | Internal control |
| | Dedicated Risk Committee at the Supervisory Board level |
| | Impact evaluation unit |
| VIII Risk Management Framework | |
| 78 | Does your institution identify, monitor, and have in place compliance systems specifically dedicated to state-owned entities (e.g. corporates)? |
| 79 | What is the limit as a percentage of total loans? |
| 80 | Does your institution have in place debt sustainability limits when making loans? |
| 81 | Are loans securitized and sold on the market? |
| 82 | Does your institution carry out periodic stress testing of credit portfolios? |
| 83 | Does your institution have a documented Risk Management Framework, approved by the Supervisory Board or a subcommittee of the Board? |
| 84 | Are there formal structures in place to ensure independence of the Risk Management function? |
| 85 | Is there a quantification methodology for |
| | credit / counterparty risk |
| | for market risk |
| | for liquidity risk |
| | for operational risk |
| 86 | Are there risk limits set for |
| | credit / counterparty risk |
| | for market risk |
| | for liquidity risk |
| | for operational risk |
| IX Monitoring, Evaluation, and Accountability | |
| 87 | To whom is your institution legally responsible or accountable? |
| | the Head of Government (e.g., President, Prime Minister) |
| | the Finance Minister or other cabinet level official |
| | a legislative body such as the Parliament or Congress |
| | shareholders |
| | other (please specify) |
| 88 | Is your institution's outstanding debt rated by the international credit rating agencies? |
| 89 | Is your institution legally required to be audited by a professional external auditor (e.g., Ernest Young, Deloitte, KPMG, PWC) ? |

| | |
|-------------------------------|--|
| 90 | Is your institution audited by the Government or a Government-related body? |
| 91 | Is the institution legally required to produce IFRS-based audit reports? |
| 92 | Does your institution disclose to the public the following information? |
| | Annual report |
| | Governance and risk management framework |
| | Regulatory capital and capital adequacy ratio |
| | Executive compensation |
| | Related party transactions |
| 93 | What indicator do you use to define success in fulfilling your mandate of mission? |
| | Outstanding loan volumes |
| | Outstanding SMEs loan volumes |
| | Clients/Products served |
| | Number of new clients |
| | Employment |
| | New SMEs creation |
| | New start-up created |
| | Other (please specify) |
| 94 | How is this reported (e.g. annual report, special report to shareholders, etc.)? |
| 95 | Do you undertake any impact evaluation? |
| X Prudential Oversight | |
| 96 | What institution supervises your institution (e.g. Bank Supervisory Authority and/or other)? |
| 97 | Does your institution have a banking license? |
| 98 | Are there parts of commercial banking law that do not apply to your institution (e.g., capitalization, governance framework, reporting, etc.)? |
| 99 | How many times has your institution undergone onsite supervision by the Bank Supervisory Authority in the last 5 years? |

Appendix II: Participating institutions

| SOFI name | Country |
|---|------------------------|
| The Development Bank of The Federation of Bosnia and Herzegovina | Bosnia and Herzegovina |
| The Republic of Srpska Investment-Development Bank | Bosnia and Herzegovina |
| Union banka d.d. Sarajevo | Bosnia and Herzegovina |
| Bulgarian Development Bank | Bulgaria |
| Municipal Bank AD | Bulgaria |
| Croatian Bank for Reconstruction and Development - Hrvatska banka za obnovu i razvitak (HBOR) | Croatia |
| Czech-Moravian Guarantee and Development Bank | Czech Republic |
| Agence France Locale | France |
| Société de Financement Local | France |
| Bayerische Landesbank | Germany |
| Landeskreditbank Baden-Württemberg - Förderbank - (L-Bank) | Germany |
| NRW Bank | Germany |
| Hungarian Export-Import Bank Plc. | Hungary |
| MFB Hungarian Development Bank Plc. | Hungary |
| OJSC "Ayil Bank" | Kyrgyzstan |
| Open Joint-Stock Company "RSK Bank" | Kyrgyzstan |
| JSC Development Finance Institution Altum | Latvia |
| Macedonian Bank for Development Promotion | Macedonia |
| BNG Bank | Netherlands |
| NWB Bank | Netherlands |
| Bank Gospodarstwa Krajowego | Poland |
| Caixa Geral de Depósitos, S.A. | Portugal |
| Belinvestbank JSC | Republic of Belarus |
| Joint Stock Company ‘Savings Bank – Belarusbank’ | Republic of Belarus |
| Joint-Stock Company “Development Bank of the Republic of Belarus” | Republic of Belarus |
| Banca de Export-Import a Romaniei EXIMBANK S.A. | Romania |
| CEC Bank SA | Romania |
| Eximbank of Russia | Russian Federation |
| Vnesheconomhank | Russian Federation |
| VTB Bank | Russian Federation |
| Nova Ljubljanska banka d.d., Ljubljana | Slovenia |
| ICF - Institut Català de Finances | Spain |
| Instituto de Crédito Oficial (ICO) | Spain |
| Development Bank | Turkey |
| Halk Bank | Turkey |
| T.C. ZİRAAT BANKASI A.Ş. | Turkey |
| Türkiye İhracat Kredi Bankası A.Ş. (Turk Eximbank) | Turkey |
| Joint Stock Company “The State Export-Import Bank of Ukraine” | Ukraine |
| JSB “Ukrasbank” | Ukraine |
| Oschadbank | Ukraine |
| UK Green Investment Bank plc | United Kingdom |