

EIB Group support for EU businesses: Evidence of impact in addressing market failures



By Chiara Fratto, Matteo Gatti, Debora Revoltella, Emily Sinnott and Wouter van der Wielen
European Investment Bank (EIB)

Keywords: SME financing, firm growth, government-backed lending, credit guarantee schemes, venture investment

JEL codes: G24, G32, H25, D22, C58

Abstract

This brief presents the rationale behind EIB Group support for businesses and the evidence on the impact of SME-targeted financial instruments. It gives an overview of relevant market failures and financing gaps, and how different EIB Group instruments address them. The brief brings together the results of several impact studies, comparing the performance of firms that received EIB Group support to comparable firms that did not receive such support. These studies are based on unique firm-level datasets linking EIB Group firm-support allocation data to external information on firms, investors and the macroeconomic setting. The impacts observed after the financing are positive and significant, proving that EIBG financing for SMEs, mid-caps and innovative businesses has a real impact.

*This brief is based on the report by the same authors, titled "[EIB Group support for EU businesses: Evidence of impact in addressing market failures](#)". The views expressed are purely those of the authors and may not in any circumstances be regarded as stating an official position of the European Investment Bank (EIB).

Introduction

Small and medium-sized enterprises (SMEs) constitute a key part of economic activity within the European Union.¹ In addition to the large share of employment provided, SMEs contribute to the European economy and its competitiveness through innovation, productivity enhancements, and the dissemination of strategic technologies. Yet, EU firms, particularly small and more innovative firms, face challenges to access the necessary financial resources for their operations and growth. The European Investment Bank (EIB) Group has been supporting annually about 400 000 SMEs and mid-caps, with €31.1 billion financing for businesses in 2023 alone, of which about €14.9 billion from the European Investment Fund (EIF). Support for businesses makes up around 43% of EIB Group activity, by volume, and contributes to achieving strategic objectives like sustainability, digitalisation, and competitiveness.

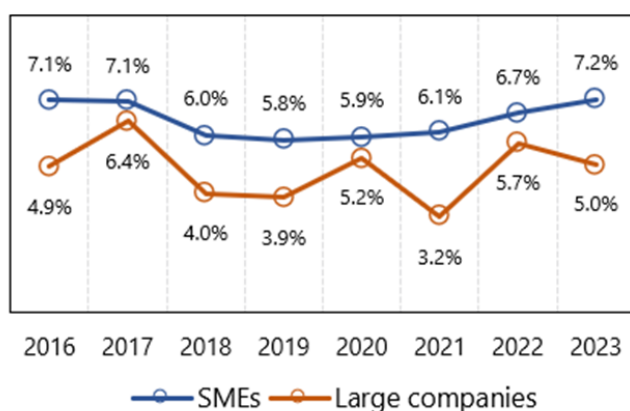
This brief presents the rationale behind EIB Group support for businesses and the evidence on the impact of SME-targeted financial instruments, building on half a decade of impact studies of its programmes.

The rationale behind public support for businesses

A non-negligible share of EU firms faces challenges to access the necessary financial resources for their operations and growth, with the difficulties more pronounced for smaller firms. In the European Union, the share of finance-constrained firms remains significant (Figure 1). The most recent EIB Group Survey on Investment and Investment Finance finds that more than 6% of EU firms fall into this category. However, the percentage varies across different EU countries, ranging from 3% to 18%. The share of finance-constrained firms is persistently higher among SMEs and more innovative firms.

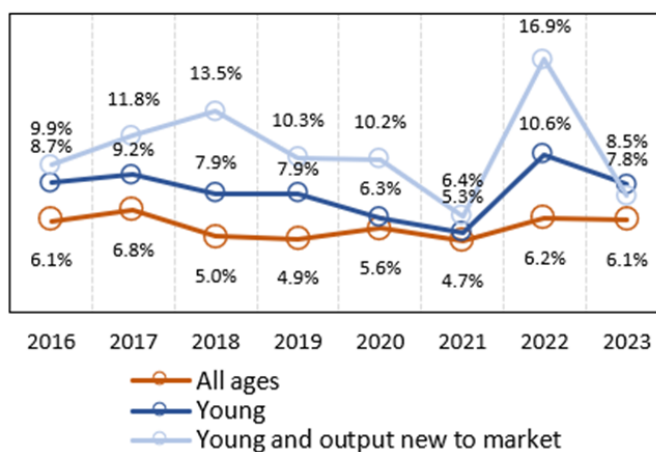
SME growth is a catalyst for overall economic growth and productivity. As SMEs grow and innovate, they increasingly contribute to productivity and generate added value. Support for young innovative businesses — startups and scale-ups — is also critical for innovation and competitiveness. As such, it is essential to address access to finance for such businesses, for an inability to do so could impair job creation, the adoption of innovations and overall productivity growth.²

Figure 1: Share of finance-constrained firms in the European Union, by firm size class



Source: EIB Group Survey on Investment and Investment Finance (EIBIS), 2023.

Figure 2: Share of finance-constrained firms in the European Union, by firm age and innovation class



Source: EIB Group Survey on Investment and Investment Finance (EIBIS), 2023.

¹ See e.g., European Commission (2023).

² Rahaman, 2011; Gerlach-Kristen et al., 2015; Cornille et al., 2019; Moscalu et al., 2020.

The need for public policy intervention in this area is the result of market failures and gaps. Each of these market failures and goals results in finance gaps for different types of firms or investment situations.³ Table 1 summarizes the most common market failures and how EIB Group business support instruments addresses them.

Policymakers can employ a wide range of instruments to support SMEs in the presence of market failures, with each instrument addressing a distinct financing need. For example, access to affordable credit lines and guarantee programmes enables SMEs to invest, expand and mitigate liquidity shocks, particularly during economic downturns. Guarantees reduce the risks for investors, encourage private-sector participation and can be instrumental in directing investment towards projects of strategic importance for the implementation of EU policies and priorities. By bundling financial assets (such as loans) into securities, securitisation allows banks to manage and offload credit risk, allowing them to expand their credit supply and making them more resilient to financial shocks and economic downturns. Equity and quasi-equity financing is particularly beneficial for startups and high-growth enterprises in need of patient capital to support innovation.

Table 1: How EIB Group business support instruments address market failures

<u>Market failures and investment needs</u>	Standard/ established (M)SMEs, mid-caps	Startups: Early/later-stage, and scale-ups
Structural: <ul style="list-style-type: none"> • Asymmetric information • Screening costs • Discrimination 	<ul style="list-style-type: none"> • MBILs • Guarantees (such as risk sharing, securitisation) 	<ul style="list-style-type: none"> • Venture investments: • VC/PE Mid Market • EIC Fund • Venture Debt (such as first-of-a-kind, scale-up) • Co-investments (such as under ETCI)
Cyclical: <ul style="list-style-type: none"> • Credit rationing • Capital constraints • Flight from risk 		
Strategic goals: <ul style="list-style-type: none"> • Innovation/digitalisation • Sustainability 	<ul style="list-style-type: none"> • Thematic MBILs • Thematic guarantees 	
Market development: <ul style="list-style-type: none"> • Nascent markets • Strategic industries • Establishing market scale 		

Supporting businesses through intermediated lending and guarantees

A large share of smaller European businesses is affected by adverse financing conditions and even the rationing of credit. Intermediated lending and loan guarantees are the two main instruments used by the EIB Group to address these market failures. Impact studies by both the EIB and the EIF, comparing loan recipients with peer firms with similar characteristics but no EIB funding, provide evidence of the success of these instruments in promoting investment and the creation of jobs.

Intermediated lending is a way for public promotional banks to address market failures affecting credit availability and conditions. In this case, commercial banks with extensive branch networks are used as intermediaries to on-lend liquidity provided by an institution such as the EIB. Central to this arrangement is a contractual agreement on the transfer of financial advantage from the promotional bank to the final beneficiary firms. This typically takes the form of lower interest rates or longer loan tenor periods than the commercial bank would otherwise be able to supply.

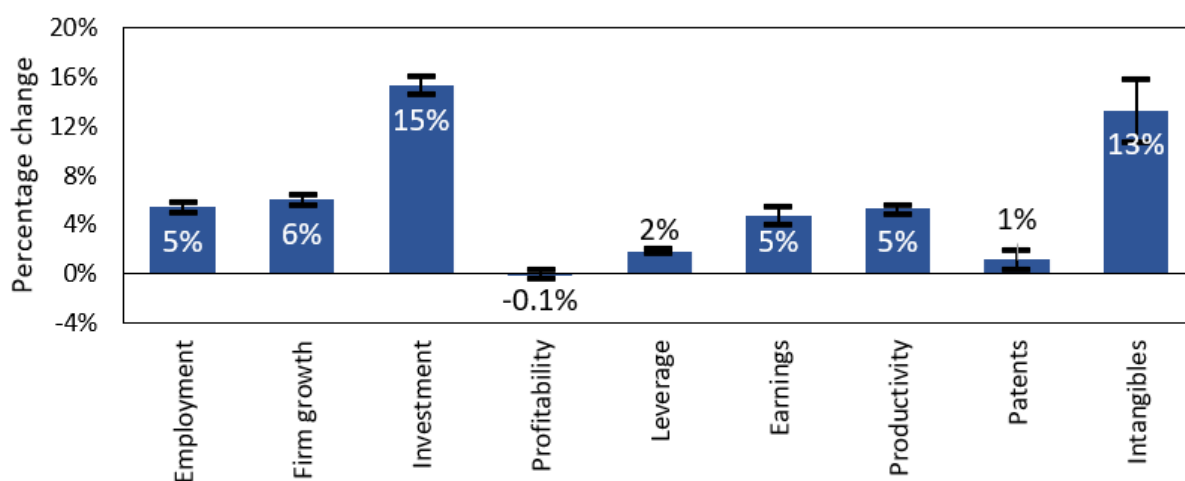
³ One credit gap estimate is provided by EIB research using firm-level data from the Enterprise Survey. See EIB (2023: 123-5). The methodology is also reported in full in Akba, Betz and Gattini, 2023.

The EIB Group has carried out a number of impact studies on its financial instruments. These use unique firm-level datasets linking EIB Group firm-support allocation data to external information on firms, investors and the macroeconomic setting. For example, to assess the impact of the EIB's intermediated lending on firms, data on EIB final loan beneficiaries were linked to firm-level data providing balance sheet and other economic information. A counterfactual analysis was then carried out by selecting a control group of firms with comparable financial and other characteristics from data on over two million firms. The analysis compared the firms before and after the treated firms received an EIB-backed loan using quasi-experimental evaluation designs.

Figure 3 shows the estimated and statistically significant impact of EIB intermediated loans to 96 830 firms in the European Union between 2008 and 2017, over the three years after funding. Businesses that benefitted from EIB financing experience 5% higher levels of employment and productivity, as well as 15% higher levels of investments after three years. Moreover, the effect of EIB lending was found to be higher for smaller and younger firms and in EU cohesion regions.⁴

Recent research also shows that EIB intermediated lending to SMEs in the Western Balkans creates 15 additional jobs for every €1m of EIB loan issued, and that the impact is larger for firms without previous access to finance.⁵ Moreover, longer maturities and more advantageous loan pricing of EIB-supported loans are associated with larger employment and investment effects.⁶

Figure 3: Estimated impact of EIB intermediated loans (% increase over counterfactual)



Source: Sinnott et al., 2023.

Note: Bars represent the estimated effect for EIB beneficiaries compared to the ones in the control group in the three years after the loan. The bands show the 95% confidence intervals of the estimates.

Credit guarantees are another important policy tool to support credit availability for SMEs, particularly during economic downturns, but also to mitigate structural market failures. By absorbing risk from the lender, guarantees act as a substitute to increased collateral requirements. They also enable intermediaries to offer better conditions: more financing, longer maturities, lower cost to creditworthy but risky firms, including younger and more innovative firms with little collateral. This function becomes critical at times of heightened risk and/or risk aversion, for example during a credit crunch.

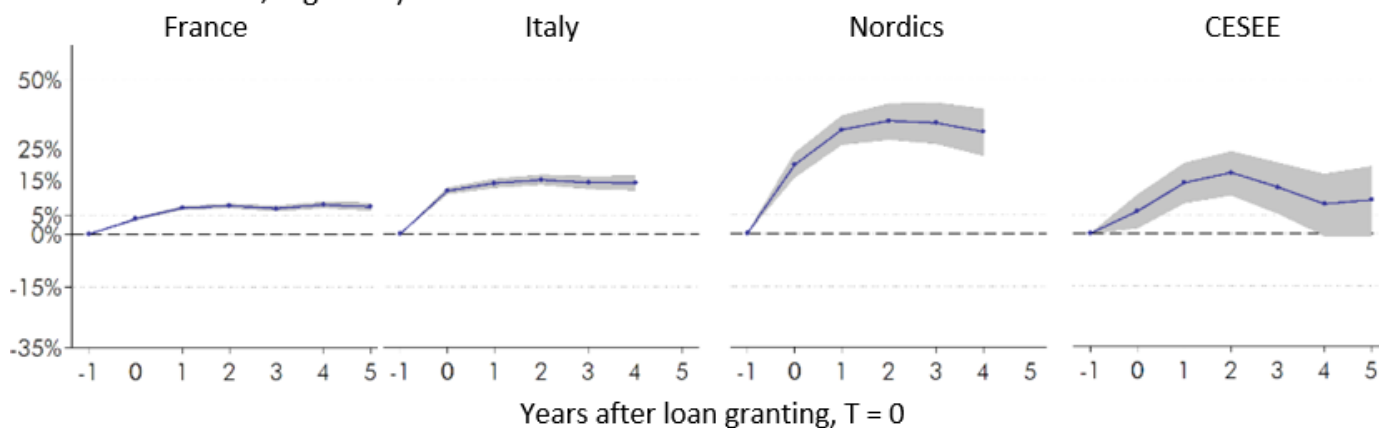
⁴ Cohesion policy characterises European regions at the NUTS2 level based on their GDP per capita relative to the EU average. Regions are classified as less developed if their GDP per capita is below 75% of the EU average and as transition regions if it is between 75% and 100% of the EU average.

⁵ Gatti et al., 2023.

⁶ Barbera et al., 2020.

Analysing 360 000 guaranteed loans by the EIF to SMEs across 19 EU countries between 2002 and 2016, statistical evidence using quasi-experimental methods shows that firms receiving EIF-guaranteed loans saw a decrease in bankruptcy rates by about a third by as much as a half in some regions and increases in employment by 8 to 30% depending on the region (Figure 4).⁷ The positive economic impact of credit guarantees also appeared to be stronger for younger and smaller firms, which typically experience more severe credit rationing in times of economic stress.

Figure 4. Impact on employment of EIF credit guarantees to SMEs (Difference between treated firms and controls, log scale)



Source: Brault and Signore, 2019.

Supporting startups and high-growth businesses

With young European firms struggling to find the right financing to support their innovation efforts, the impact of EIB and EIF support via venture capital and venture debt products is crucial. The lack of a fully developed venture capital ecosystem has led European startups and scale-ups to resort to other sources of financing that are less suited to high-growth enterprises and pushing them to relocate or search for foreign buyers.⁸ The EIF's investments into venture capital (VC) and private equity (PE) funds, for example, aim at fostering a European VC/PE ecosystem.

Analysis of EIF-supported indirect venture capital investments, comparing venture capital-backed firms with comparable new technology-based firms without such financing, show that these interventions had a positive impact on the startups' growth.⁹ Over five years, supported firms achieved higher capitalisation and assets, as well as significantly higher revenues and employment growth.¹⁰ After five years, startups backed by EIF-supported VC funds also had a higher likelihood of a successful exit, with a 10.3 percentage points higher chance of being acquired (Figure 5) and 1.7 percentage points higher rate of going public. EIF venture capital-supported startups also issued more patents (Figure 6).

The EIB's direct investments (incl. venture debt) help fill the financing gap faced by high-growth, innovation-focused companies scaling up production. The effect of EIB venture debt on innovative firms is striking. Not only do EIB venture debt recipients grow faster than their peers (Figure 7), but they also benefit from much better funding structure when they later go to the market for funding (Figure 8), as the EIB venture debt product is perceived as a stamp of quality.

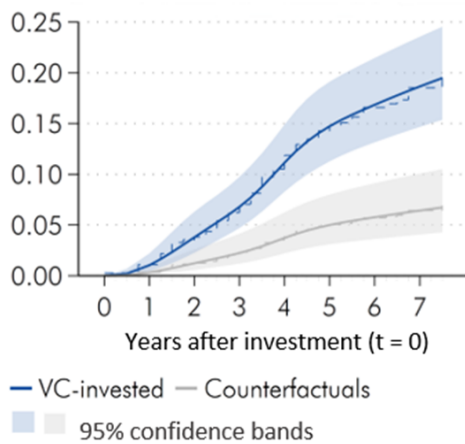
⁷ On the bank side, there is also evidence that public-guaranteed loans can be leveraged to change banks' lending behaviour, promoting greener industries' growth and supporting the global economy's decarbonisation (Buchetti et al., 2024).

⁸ Fratto et al., 2024.

⁹ The analysis employs machine learning tools to scan through startup business models and identify promising entrepreneurial ideas as well as geospatial data and airline routes to better simulate the investment selection process of European venture capital firms.

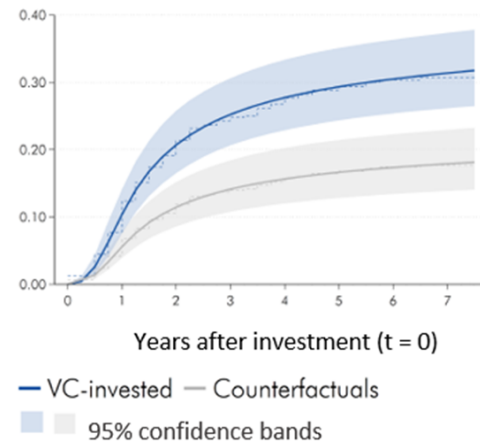
¹⁰ Pavlova and Signore, 2019.

Figure 5: Impact on M&A exit rates of EIF-supported VC investments in startups
(Cumulative probability to experience an M&A, over time)



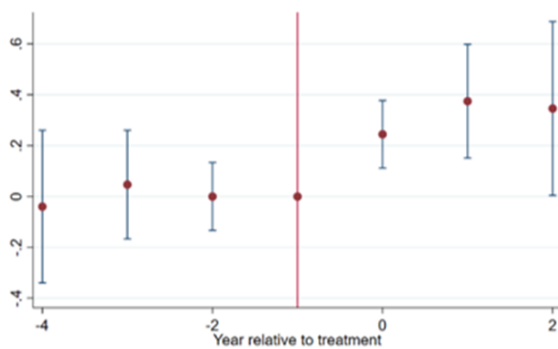
Source: Pavlova and Signore, 2021.

Figure 6: Impact on patenting by EIF-supported VC investments in startups
(Cumulative probability to apply for a patent, over time)



Source: Pavlova and Signore, 2021.

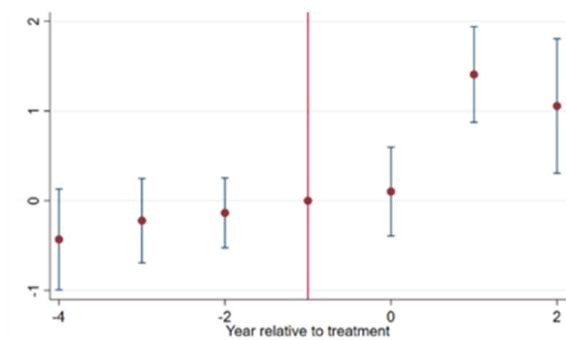
Figure 7: Impact of venture debt on firm size (% change in total assets relative to control firms)



Source: Gatti et al. (2022).

Notes: Dots represent the estimated effect for EIB beneficiaries compared to the ones in the control group, at each point in time. The effects are normalised to zero in the year prior to loan signature ($t=-1$) and can thus be interpreted as relative to the year immediately before signing the contract. The bands around the dots show the 90% confidence intervals of the estimates.

Figure 8: Impact of venture debt on additional debt funding (% change relative to control firms)



Conclusions

Business dynamism and the reallocation of resources from older, less efficient firms to younger and more innovative firms is a key driver for innovation, productivity growth and competitiveness. In addition, SMEs and mid-caps also play a vital role in the green and digitalisation transition. Therefore, it is essential to address barriers to the access to finance of such businesses. There is a need to ensure access to finance for SMEs and mid-caps is sustained going forward given the large investment needs. Europe needs to be competitive and “future-proof”.

By addressing critical market failures, the EIB Group's business support instruments are crucial to achieving the EU's strategic objectives around sustainability, digitalisation, and competitiveness. InvestEU and other mandates given to the EIB Group by the European Union and other important mandators have enabled the provision of needed finance to the enterprise sector. Business support instruments provide vital ways to promote investments by the private sector that achieve public goods (positive externalities), which the private markets might not otherwise achieve. Examples include public support for green investments and market-shaping investments in equity finance and strategic industries.

This brief presents evidence on the impact of the business-targeted financial instruments of the EIB Group. The findings show that EIB Group financing to support business across the EU – SMEs, mid-caps and innovative businesses – has a material effect on their growth. The evidence also underlines the EIB Group's countercyclical role, maintaining access to finance for viable businesses even when private credit contracts during economic downturns.

Going forward, the net-zero transition will require a substantial increase in green investment by businesses, including for more energy-efficient buildings and equipment, alternative fuels, the circular economy and low-emissions vehicles, all of which need to be accompanied by the rapid adoption of new digital technologies. The findings in this brief highlight that the public sector can play a pivotal role in bridging credit gaps, supporting the growth potential of enterprises.

References

- Akba, O., Betz, F. and Gattini, L. (2023), "Quantifying credit gaps using survey data on discouraged borrowers", EIB Working Paper 2023/06.
- Barbera, A., Gereben, Á. and Wolski, M. (2020), "Estimating conditional treatment effects of EIB lending to SMEs in Europe", EIB Working Papers 2022/03.
- Brault, J. and Signore, S. (2019). "The real effects of EU loan guarantee schemes for SMEs: A pan-European assessment". EIF Working Paper 2019/56. EIF Research & Market Analysis.
- Buchetti, B., Miguel-Flores, I., Perdichizzi, S. and Reghezza, A. (2024). "Greening the economy: how public-guaranteed loans influence firm-level resource allocation". ECB Working Paper, 2916. European Central Bank.
- Cornille, D., Rycx, F. and Tojerow, I. (2019). "Heterogeneous effects of credit constraints on SMEs' employment: Evidence from the European sovereign debt crisis," *Journal of Financial Stability*, 41(C), 1-13.
- EIB (2023). EIB Investment Survey 2023 — European Union Overview, European Investment Bank.
- EIB (2024). EIB Group support for EU businesses: Evidence of impact in addressing market failures, European Investment Bank.
- European Commission (2023). Annual Report on European SMEs 2022/2023, European Commission.
- Fratto, C., Gatti, M., Kivernyk, A., Sinnott, E. and van der Wielen W. (2024). "The scale-up gap: Financial market constraints holding back innovative firms in the European Union", European Investment Bank.
- Gatti, M., Schich, S., van der Wielen, W. and Sinnott, E. (2022). "Impact assessment of EIB venture debt", EIB Impact study.
- Gatti, M., Sinnott, E., Weiers, G., Fratto, C. and van der Wielen, W. (2023). "The impact of the EIB's intermediated lending to businesses in the Western Balkans", EIB Impact study.
- Gerlach-Kristen, P., O'Connell, B. and O'Toole, C. (2015). "Do Credit Constraints Affect SME Investment and Employment?," *The Economic and Social Review*, 46(1), 51-86.
- Moscalu, M., Girardone, C. and Calabrese, R. (2020). "SMEs' growth under financing constraints and banking markets integration in the euro area," *Journal of Small Business Management*, 58(4), 707-746.
- Pavlova, E. and Signore, S. (2019). "The European venture capital landscape: an EIF perspective. Volume V: The economic impact of VC investments supported by the EIF". EIF Working Paper 2019/55, EIF Research & Market Analysis.
- Pavlova, E. and Signore, S. (2021). "The European venture capital landscape: an EIF perspective. Volume VI: The impact of VC on the exit and innovation outcomes of EIF-backed startups". EIF Working Paper 2021/70, EIF Research & Market Analysis.
- Rahaman, M. (2011). "Access to financing and firm growth," *Journal of Banking & Finance*, 35(3), 709-723.
- Sinnott, E., Gatti, M. and van der Wielen, W., (2023), "Impact assessment of the EIB's intermediated lending to businesses", EIB Impact study.

About the authors

Chiara Fratto works as an economist at the Economics Department of the European Investment Bank (EIB). Her role at the EIB involves conducting economic research, contributing to the EIB's strategic conversations and its main publications. Prior to joining the EIB in 2023, she worked as an economist at the International Monetary Fund, where she was responsible for the fiscal assessment as part of the approval of a USD18bn credit line for Chile. She also worked for the World Bank, where she led a research project on the development of the IT sector in the West Bank, including the design of a new survey instrument. Her research spans different fields, including spatial economics, monetary policy, the financing of innovative firms, and applied macroeconomics. She holds a B.A. and a M.S. from Bocconi University and a M.A. and a Ph.D. from the University of Chicago.

Matteo Gatti is an economist in the Economics Department of the European Investment Bank (EIB). His work focuses on producing economic research to support EIB's policies. He is responsible for impact studies assessing EIB's support schemes and he contributes to several EIB economics publications. As an applied economist, Matteo's main areas of expertise lie in the field of corporate finance, financial intermediation and macroeconomics. Prior to joining the EIB in 2021, Matteo worked as an Economist for a leading economic consulting firm in London, where he advised public sector clients on regulatory and competition issues. Matteo holds a PhD in Economics from the European University Institute (EUI) as well as an MSc and BA from Bocconi University.

Debora Revoltella is Director of the Economics Department of the European Investment Bank, acting as Chief Economist. The Economics Department provides impact-driven economic analysis to support EIB operations and global positioning as well as the Group's policy and strategy definition. The Department comprises some 40 economists. It is in charge of the sovereign and financial sector rating models for the EIB as well as of providing financial sector expertise in EIB projects. It is also responsible for assessing the impact of EIB activities and the results generated by EIB-financed projects. Since her arrival at the EIB in 2011, Debora Revoltella has designed and led the work for flagship publications such as the EIB Investment Report, a series of policy working papers and other region-specific research. She launched the idea and led the process for the design and implementation of the EIB Investment Survey, a new survey covering 12 500 European firms which has become a unique asset in terms of understanding investment dynamics in Europe. She was behind the EIB partnering with the European Bank for Reconstruction and Development (EBRD) and the World Bank for the Enterprise Survey for the MENA region in 2015 and for the whole neighbouring region in 2017. Debora Revoltella holds a degree in Economics and a Master's degree in Economics from Bocconi University as well as a PhD in Economics from the University of Ancona in Italy. Debora Revoltella is member of the Steering Committees of the Vienna Initiative and the CompNet, an alternate member of the Board of the Joint Vienna Institute and a member of the Boards of the SUERF and the Euro 50 Group.

Emily Sinnott is the Head of the Policy and Strategy Division in the Economics Department of the European Investment Bank (EIB). Her work focuses on informing the EIB's policy discussions and strategic and operational orientations using economic research, and country and financial sector analysis. She also is responsible for results and impact assessments of EIB activities, including the results measurement framework outside the EU, macroeconomic modelling of EIB impact and in-depth microeconomic studies to assess EIB financial instruments and projects. Prior to joining the EIB in 2021, Emily was Lead Economist at the World Bank, in charge of lending and analysis for macroeconomics, finance, private sector development and public sector reform for Argentina, Paraguay and Uruguay. Additionally, she has worked as an economist at the OECD, European Central Bank and as an Overseas Development Institute Fellow in the Government of Guyana. Emily has a B.A. in Philosophy, Politics and Economics from Oxford University, a M.Sc. in Economics from Warwick University and a Ph.D. in Economics from the European University Institute.

Wouter van der Wielen is an economist in the Economics Department of the European Investment Bank (EIB) and a visiting professor at the University of Antwerp. He is responsible for impact studies of public and private sector policy support schemes and contributes macroeconomic analyses to the EIB's flagship publications. Prior to joining the EIB, he worked as an economic analyst at the European Commission's Joint Research Centre. His main areas of expertise are macroeconomics, labour economics and fiscal policy, with a strong emphasis on policy evaluation. He holds a PhD in Economics as well as a MSc of Advanced Studies in Economics from KU Leuven.



SUERF is a network association of central bankers and regulators, academics, and practitioners in the financial sector. The focus of the association is on the analysis, discussion and understanding of financial markets and institutions, the monetary economy, the conduct of regulation, supervision and monetary policy.

SUERF's events and publications provide a unique European network for the analysis and discussion of these and related issues.

SUERF Policy Briefs (SPBs) serve to promote SUERF Members' economic views and research findings as well as economic policy-oriented analyses. They address topical issues and propose solutions to current economic and financial challenges. SPBs serve to increase the international visibility of SUERF Members' analyses and research.

The views expressed are those of the author(s) and not necessarily those of the institution(s) the author(s) is/are affiliated with.

All rights reserved.

Editorial Board

Ernest Gnan
David T. Llewellyn
Donato Masciandaro
Natacha Valla

SUERF Secretariat
c/o OeNB, Otto-Wagner-Platz 3A-1090 Vienna,
Austria

T: +43-1-40420-7206 • www.suerf.org • suerf@oenb.at