OECD – FSB Roundtable on Artificial Intelligence in Finance

AGENDA

22 May 2024
OECD Headquarters, CC4 (in person event)
2 rue Andre Pascal, 75116, Paris, France

■ About the OECD

The OECD is a forum in which governments compare and exchange policy experiences, identify good practices in light of emerging challenges, and promote decisions and recommendations to produce better policies for better lives. The OECD's mission is to promote policies that improve the economic and social well-being of people around the world. The OECD Directorate for Financial and Enterprise Affairs assists policy makers to foster fair and efficient markets which deliver inclusive economic growth and, in turn, better lives. OECD work on financial markets promotes efficient, open, stable and sound market-oriented financial systems, based on high levels of transparency, confidence, and integrity.

■ About the Financial Stability Board (FSB)

The FSB coordinates at the international level the work of national financial authorities and international standard-setting bodies and develops and promotes the implementation of effective regulatory, supervisory, and other financial sector policies in the interest of financial stability. It brings together national authorities responsible for financial stability in 24 countries and jurisdictions, international financial institutions, sector-specific international groupings of regulators and supervisors, and committees of central bank experts. The FSB also conducts outreach with approximately 70 other jurisdictions through its six Regional Consultative Groups.

■ Background to the Roundtable

The use of AI presents significant opportunities for efficiencies and value creation across vectors of financial market activity but comes with important risks that warrant the attention, and possible action, of policy makers. Wider deployment of AI in finance could amplify risks already present in the global financial system, while also giving rise to new challenges and risks, including possible systemic implications. The role of policy makers is important in supporting AI innovation in the financial system while ensuring that financial markets, institutions and their customers are duly protected and the markets around such products and services remain stable, fair, orderly and transparent.

Building on earlier work of the OECD and the FSB, this Roundtable aims to identify current trends in the adoption of AI in finance, discuss existing and potential use cases of AI for financial system participants (including financial supervisors), analyse opportunities and emerging risks from the deployment of AI mechanisms in finance and share emerging good practices in terms of policy frameworks. The objective of the Roundtable is to form a better understanding of the extent of actual and potential benefits and risks of AI deployment in finance, as well as to share knowledge around applicable policy frameworks and policy initiatives associated with the use of AI-based mechanisms in finance. The outcomes of the Roundtable shall inform forthcoming work on AI in Finance by the OECD and the FSB.

The Roundtable brings together senior public sector officials from finance ministries/treasuries, central banks and financial regulators from OECD and FSB member jurisdictions, as well as executives from the private sector, academia, think tanks, and senior experts from international organisations and standard-setting bodies.

■ Contacts

Fatos Koc │ Fatos.Koc@oecd.org
Head of Financial Markets Unit

Iota Kaousar Nassr │ Iota.Nassr@oecd.org
Senior Policy Analyst

Raluca Hanea │ Raluca.Hanea@oecd.org
Project Assistant

Costas Stephanou │ Costas.Stephanou@fsb.org
Head of Financial Stability Analysis

Yuta Takanashi │ Yuta.Takanashi@fsb.org
Member of Secretariat

Sibel Oezcan │ Sibel.Oezcan@fsb.org
Member of Secretariat

Wednesday, 22 May 2024	
CET (Paris) **09:30 – 13:00**	**OPEN SESSION (with private sector participants) CHATHAM HOUSE RULE**
8:30 – 09:00	**Registration and welcome coffee**
09:00 – 9:45	**Opening Remarks** • *Yoshiki Takeuchi*, OECD Deputy Secretary-General **Keynote Speech** • *Nellie Liang*, Under Secretary for Domestic Finance, US Treasury, and Chair of FSB Standing Committee on Assessment of Vulnerabilities (SCAV)
9:45 – 11:15	**SESSION 1** **AI in the banking and insurance sectors** **Moderator:** • *Carmine Di Noia,* Director for Financial and Enterprise Affairs, OECD **Speakers:** • *Stephen Albrecht*, Head of Digital Legal Services, General Counsel DBS, HSBC • *Marcin Detyniecki,* Head of R&D and Group Chief Data Scientist, AXA • *Conan French, Director for Digital Finance*, International Institute of Finance • *Sarah Gadd*, Chief Data Officer and Head of Data & Process Engineering, Julius Bär • *Paolo Giudici*, Professor, Department of Economics and Management, University of Pavia • *Christian B. Westermann*, Group Head of AI, Zurich Insurance **Background** Recent technological advances in AI have extended the adoption of AI-based tools, including in banking and insurance sectors. Generative AI in particular represents a step change in potential use cases enabled by the generation of text, image, audio, video, and code. Examples include applications in fraud detection, credit decisioning, risk management, textual analysis, coding, customer service, compliance, capital optimisation, and portfolio management, among others, often improving accuracy, speed, and efficiency in processing. This session will explore from the industry perspective the current and forthcoming AI use cases in banking and insurance, and the challenges and emerging risks from the increased use of AI. Issues for discussion in this session include: • What are existing, new and emerging AI use cases by banking and insurance firms? How have they evolved in recent years? Are firms using foundation models, other type of models, curated products and/or building tailored applications? • What are the main benefits of the use of AI in lines of business (incl. examples of innovative financial products and new revenue growth enabled through AI)? Do regulatory expectations pose barriers to experimentation? • What are the main challenges/risks that banks and insurers face with the increased use of AI? How are these institutions modifying their internal operations and governance structures to deal with them? • What are the key policy considerations emerging from the use of AI in the banking and insurance sectors?
11:15 – 11:30	**Coffee break**

11:30 – 13:00	**SESSION 2**
	AI in asset management and securities markets
	Keynote Speech:
	• *Jean-Paul Servais*, Chair of the International Organization of Securities Commissions (IOSCO); Chair of the Belgium Financial Services and Markets Authority (FSMA)
	Moderator:
	• *Lim Tuang Lee*, Assistant Managing Director, Capital Markets Group, Monetary Authority of Singapore
	Speakers:
	• *Jon Danielsson*, Co-Director, Systemic Risk Centre, Department of Finance, London School of Economics
	• *Pasquale Galassi*, Head of Portfolio Construction Equity, Leading AI and Quant Community Project, Amundi Asset Management
	• *Sarah Heffron Nichomoff,* Chief Data & Analytics Officer, J.P. Morgan
	• Emily Prince, Group Head of Analytics, Product Management & Research, London Stock Exchange Group
	Background
	AI tools are increasingly being adopted by the asset management industry, particularly in areas such as portfolio management, trading, and risk management. These tools are being used to optimise asset allocation decisions by facilitating fundamental analysis through quantitative and textual data, to generate trading signals, to automate trades and to validate and backtest risk models.
	This session will delve into both the current applications and the future potential of AI within the industry, examining the challenges and emerging risks associated with its expanded use. Issues for discussion in this session include:
	• What are existing, new and emerging AI applications being utilised by asset managers, other buy/sell side market participants and their service providers? How have these applications evolved in recent years?
	• How is AI applied in pre-trade analysis, trade execution, and post-trade analysis? Has GenAI in particular been used for these purposes?
	• In what ways is AI used for portfolio construction? How does it integrate with or enhance traditional portfolio management strategies?
	• What are the main benefits and challenges/risks that asset managers and other buy/sell side market participants face with the increased use of AI? How are these institutions revamping their internal operations and governance structures to deal with them?
13:00 – 14:30	**Lunch break - lunch boxes will be provided in the room**
14:30 – 18:00	**CLOSED SESSION (w/o private sector participants)**
14:30 – 15:30	**SESSION 3**
	Financial stability implications of the growing use of AI in finance
	Moderator:
	• *Lee Foulger*, Director, Financial Stability Strategy and Risk, Bank of England
	Speakers:
	• *Charles Cohen,* Advisor on Financial Markets, International Monetary Fund
	• *Seung Jung Lee, Deputy Associate Director, Division of Financial Stability, US Federal Reserve Board*
	• *Peter Kerstens*, Advisor for Financial Sector Digitalisation and Cybersecurity, European Commission
	• *Valerie Szczepanik,* Head of the Strategic Hub for Innovation and Financial Technology, U.S. Securities and Exchange Commission, and Chair of IOSCO AI Working Group

Background

In 2017, the FSB published a <u>report on the financial stability implications of the growing use of AI and machine learning in financial services</u>. Since the publication of that report, there have been notable AI-related developments such as the adoption of generative AI. These developments have the potential to enhance benefits for market participants and authorities but also to introduce new or magnify existing risks. Against this backdrop, the FSB will submit a report to the G20 Summit in November taking stock of new AI developments and assessing their financial stability implications.

To inform this work, this session will discuss key financial stability implications of AI use cases drawing on the takeaways from the morning sessions. In particular, the session will consider the following questions:

- What are the key types of financial stability risks that could be amplified due to AI uptake in finance? How do Generative AI and other recent AI developments affect the nature of these risks?
- Which of the AI use cases discussed in the morning sessions are most relevant to financial stability and warrant close monitoring?
- What types of gaps do you see in AI-related financial stability monitoring? Are there available or potential indicators that can be used for surveillance?
- How can financial stability authorities leverage AI for monitoring and research?

15:30 – 15:45	**Coffee break**
15:45 – 16:45	**SESSION 4**

Financial consumer protection and market conduct considerations of AI in finance

Moderator:
- *Greg Sachrajda*, Director, Cross-Cutting Policy and Strategy, UK Financial Conduct Authority

Speakers:
- *Alan Au*, Executive Director, Banking Conduct, Hong Kong Monetary Authority
- *Matthias Fahrenwaldt, Quantitative Risk Modeling Department*, German Federal Financial Supervisory Authority (BaFin)
- *Colm Kincaid*, Director of Consumer Protection, Central Bank of Ireland
- *Astrid Ludin*, Commissioner, Financial Sector Conduct Authority, South Africa
- *Yuji Yamashita*, Deputy Commissioner of International Affairs, Japan Financial Services Agency and Vice-Chair of the International Financial Consumer Protection Organization (FinCoNet)

Background

The potential for bias and discrimination in algorithmic decision making (whether intentional or unintentional) is a well-established concept. Limited explainability of the models makes it harder to detect inappropriate use of data or use of unsuitable data in AI-based applications in finance. Cyber security risks, risk of hacking and other security risks related to such models are also present, with direct implications on data privacy and confidentiality. AI can offer to malicious actors improved methods for performing social engineering, email phishing, and text messaging smishing attacks compromising access into firms' systems, emails, databases, and technology services. Data authenticity and IP-related risks are closely related to data quality and data privacy-related considerations. GenAI accentuates risks related to the quality and reliability of the model output, with the risk of 'hallucinations' or other form of deception and disinformation/misinformation, particularly concerning when it comes to the adverse impact on financial consumers, and retail investors in particular. The risks of limited trustworthiness of such models are aggravated by the possible limited awareness of the model limitations by its users and by the recipients of their outputs.

Issues for discussion:

- What are the latest developments and trends in your jurisdiction relating to the use of AI in consumer-facing financial products and services? What are the possible benefits, including from a financial inclusion perspective?
- Are you seeing any evidence of potentially inappropriate, biased or discriminatory outcomes arising from AI-backed financial products and services?
- What kind of policies do you have in place / plan to protect investors, consumers and the markets from misconduct related to the use of AI in finance?
- How can global standards such as the G20/OECD High Level Principles on Financial Consumer Protection assist policy makers in their efforts?
- What is the role of financial education strategies in raising awareness of the possible perils of AI-assisted financial services?
- Can AI become in itself a useful tool in combating misconduct in financial markets?

16:45 – 17:45	**SESSION 5**
	Regulatory, supervisory and other policy approaches to AI in finance: status quo and the way forward
	Moderator:
	• *Aerdt Houben,* Director of the European Banks Supervision Division at De Nederlandsche Bank and Chair of the OECD Committee on Financial Markets
	Speakers:
	• *Michael Carlson, Director, U.S. Department of the Treasury, Office of International Financial Markets,* US Treasury
	• *Juraj Corba,* Digital Regulation and Governance Expert, Slovakian Ministry of Investments, Regional Development and Informatization and Chair of the OECD Working Party on AI Governance
	• *Ana Maria Fimin,* Digital Finance Unit, European Commission (DG FISMA)
	• *Amy Lee,* Head of Fintech Hub, Bank of England
	• *Uzma Wahhab,* Associate Director, Supervisory and Regulatory Division, US Federal Reserve Board
	Background
	Based on the results of a stocktaking of OECD and non-OECD countries, the vast majority of countries have appropriate regulation in place for the use of AI in Finance. Existing financial regulation, laws and guidance applies to the use of AI in Finance, even if AI is not specifically referenced (tech neutrality). Some OECD countries have introduced (or are introducing) some form of policy that covers AI in (parts of) finance, albeit in different forms: cross-sectorial legislation covering part of financial activity; proposed rules issued by financial regulators; non-binding policy guidance (e.g. principles, guidelines, white papers); and clarifications released by financial regulators/ supervisors. Interestingly, these approaches are not mutually exclusive.
	Finally, the majority of respondents to the Survey do not plan to introduce new regulations around AI in Finance in the near future – noting, however, that they continue to assess whether any further strengthening or expanding of existing rules beyond what is already in place would be necessary, or useful, to deliver on the policy objectives of regulatory authorities. At the practical implementation level, there may be a need for additional general guidance to assist authorised/supervised entities in their compliance, given unique issues arising in the deployment of AI innovation, depending on the case.
	Issues for discussion:
	• How are regulated financial institutions in your jurisdiction using AI? What has been the pace of Generative AI uptake?
	• What do you see as some of the key risk management challenges associated with AI usage by financial institutions? Does Generative AI change the nature of these challenges?
	• What types of frameworks apply to the use of AI by financial institutions in your jurisdiction?
	• Have you introduced or do you have any future plans or work underway to establish legislation/ regulation/ policy framework on Artificial Intelligence in your country to support the safe and responsible deployment of AI by financial market participants?
	• What are the lessons learned from governance of finance for governance of AI (if any)? Are there any analogies that would be helpful to consider in designing policies?
	• How important is international alignment or coordination in regulation and supervision of AI in Finance? What can be done to promote international coordination on AI policy in finance?
17:45 – 18:00	**Closing Remarks**
	• *Carmine Di Noia,* Director for Financial and Enterprise Affairs, OECD
	• *Costas Stephanou,* Head of Financial Stability Analysis, FSB
	END OF ROUNDTABLE
18:15 – 19:30	**Cocktail (OECD, Room Expresso)**

Speakers' bios

Opening Remarks

Yoshiki Takeushi

OECD Deputy Secretary-General

Mr. Yoshiki Takeuchi was appointed Deputy Secretary-General in November 2021. His portfolio includes the strategic direction of the OECD policy on Employment, Labour and Social affairs, Education, Skills, Well-being, Inclusion, Sustainability and Equal Opportunities, Financial and Enterprise Affairs along with the Centre for Entrepreneurship, SMEs, Regions and Cities. He also represents the OECD at the Financial Stability Board and guides OECD work with the Asia-Pacific region. Mr. Takeuchi has had a distinguished career over nearly four decades at the Japanese Ministry of Finance. Prior to joining the OECD, he served as Special Advisor to Japan's Minister of Finance. He was Vice-Minister for International Affairs (2019-2020), Director-General of the International Bureau (2016-2019) and has held other senior positions including as Deputy Minister in many international fora such as G7, G20, IDA and International Monetary and Finance Committee. Mr. Takeuchi has a wealth of experience in the field of international economy and finance. He worked closely with international organisations including the IMF, the World Bank, the Asian Development Bank and other regional development institutions. He also led Japan's G20 Presidency finance team with a particular focus on digital taxation, quality infrastructure investment, capital flow management and global imbalances. Mr Takeuchi holds a B.A. in Law from University of Tokyo, a MPhil in Economics from University of Oxford and conducted research at Chatham House.

Nellie Liang

Under Secretary for Domestic Finance, US Treasury, and Chair of FSB Standing Committee on Assessment of Vulnerabilities (SCAV)
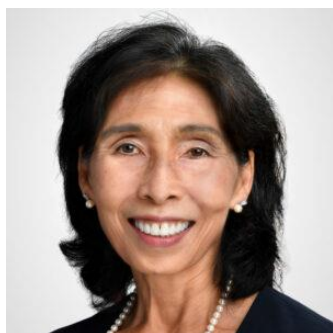
Nellie Liang was confirmed as the Under Secretary for Domestic Finance at the US Treasury Department in July 2021. Prior to serving at Treasury, Ms Liang was a Senior Fellow in Economic Studies at the Brookings Institution. She also was a Visiting Scholar at the International Monetary Fund's Monetary and Capital Markets Department, Lecturer at the Yale School of Management, and a member of the Congressional Budget Office's Panel of Economic Advisors. Over three decades at the Board of Governors of the Federal Reserve System, Ms Liang held a range of positions, including as the first Director of the Division of Financial Stability from 2010 to 2017. In that position, she oversaw the development of financial stability policies related to risks in financial firms and financial markets, and interactions of financial policies with monetary policy. Her recent research has focused on the financial system and macroeconomic growth. Ms Liang received a PhD in economics from the University of Maryland and a B.A. in economics from the University of Notre Dame.

Session 1 : AI in the banking and insurance sectors

Carmine Di Noia, Director for Financial and Enterprise Affairs, OECD

Carmine Di Noia is the Director for Financial and Enterprise Affairs at the OECD. Prior to his appointment, he was Commissioner of the Italian Securities and Exchange Commission (CONSOB) from 2016 until 2022. In this capacity, he was also an alternate member of the Board of Supervisors of the European Securities and Markets Authority (ESMA) and chair of its Committee for Economic and Markets Analysis (CEMA) and Post-Trading Standing Committee, and vice chair of the OECD Corporate Governance Committee.

Carmine Di Noia was previously Deputy Director General and Head of Capital Markets and Listed Companies at Assonime (the Association of Italian Corporations) and served two terms as a member of the Securities and Markets Stakeholders Group at ESMA. He was also a member of the board of directors of the Italian Stock Exchange (Borsa Italiana).

He holds a Ph.D. in Economics from the University of Pennsylvania, a Doctorate in Economic Theory and Institutions from Tor Vergata University in Rome (Italy), and a Bachelor's Degree in Business Economics from La Sapienza University in Rome.

Stephen Albrecht

Head of Digital Legal Services, General Counsel DBS, HSBC

Steve Albrecht is the General Counsel of the HSBC Digital Business Services organization and the head of the Digital Legal Services teams. Steve is a member of the COO ExCo and manages legal coverage for innovation and technology, commercial contracting and procurement, resilience, cyber-security, data privacy, digital applications, and intellectual property. He is also the Chairman of the HSBC Group AI Review Committee managing the governance of AI applications across the bank.

Steve is based in London and is a member of the HSBC Group Legal Executive Committee.

Before joining HSBC, Steve held several legal and regulatory roles at Barclays as General Counsel to the COO and GE Capital, including global regulatory and supervisory affairs leader. Prior to that, Steve served as the Counselor to the General Counsel and Acting Deputy General Counsel at the U.S. Treasury Department where he coordinated the operational management of the Treasury Legal Division. Steve served under Secretaries Paulson and Geithner, assisting in the development and implementation of the programs set in place to mitigate the financial crisis of 2008. Prior to this Steve practiced at WilmerHale in Washington, DC focusing on securities, litigation and policy-related engagements for clients in the financial and healthcare industries.

Steve has also worked as a health management and policy consultant at The Lewin Group in Fairfax, Virginia and clerked for Senior Judge Max Rosenn on the U.S. Court of Appeals for the Third Circuit. He earned his law degree from Georgetown University, an MA in Public Health from Yale University School of Medicine, and a BA from Villanova University, and has served as a visiting faculty member at the Villanova University School of Business.

Marcin Detyniecki

Head of R&D and Group Chief Data Scientist, AXA

Marcin Detyniecki is Group Chief Data Scientist & Head of AI Research and Thought Leadership at insurance global leader AXA. He leverages his expertise to help AXA deliver value and overcome AI and ML-related business challenges and enable the group to achieve its transformation as a tech-led company. He leads the artificial intelligence R&D activity at group level. His team works on setting a framework enabling fair, safe and explainable ML to deliver value.

Marcin is also active in several think and do tanks, including a role of vice-president and board member of Impact AI, member of the Consultative Expert Group on Digital Ethics in Insurance for EIOPA and technical expert at Institut Montaigne. He has been involved in several academic roles including Research Scientist at both CNRS and Sorbonne University. He holds a Ph.D. in Computer Science from Université Pierre et Marie Curie.

Conan French

Director, Digital Finance, IIF

Conan is currently Director of the Digital Finance department at the IIF. He initially joined the IIF as Senior Technology Advisor in 2015 to expand the Institute's work on fintech innovations through research, events, and industry engagement. Focus areas include technologies such as mobile payment platforms, robo-advisors, cryptocurrencies, blockchain, data tools, machine learning, alternative lending platforms, and new technology solutions for regulatory compliance. Conan has over 15 years of experience working on innovations in finance from both the private and public sector. As a Partner at OpenRevolution, he launched several mobile money ventures using new technologies for financial services. Previously, he headed an office of microfinance, regulatory reform and business development experts at USAID providing direction to a global program active in 82 countries. While there, he created public private partnerships with banks using structured facilities and credit guarantees to leverage $5M in USAID funds into $215M in private sector lending to microfinance institutions. Conan's earlier experience included work at the Department of State, US Treasury Department, and for the Governor of Massachusetts. While at USAID, he was the US Representative on the Council of Governors for the World Bank's CGAP.

Sarah Gadd

Chief Data Officer and Head of Data & Process Engineering, Julius Bär

Sarah Gadd is the Chief Data Officer, Head of Data Platform and Process Automation at Julius Bär, with more than 20 years of experience in driving digital innovation and implementing change in the financial service industry. Before joining Julius Bär, Sarah was the Global Head of Data and Artificial Intelligence Solutions at Credit Suisse. Sarah has brought to life many successful initiatives, innovating and revolutionizing ways of managing data assets, from process automation through to Artificial Intelligence.

Paolo Giudici

Professor, Department of Economics and Management, University of Pavia

Professor of statistics at the University of Pavia and Professor of machine learning at the European University Institute. Author of several scientific publications, with an h-index of 45 (Google scholar), 35 (Scopus), 30 (Web of Science), which mainly concern the development of statistical learning models to obtain predictions and/or risk measures in economics and finance applications. Coordinator of 12 funded scientific projects, among which the European Horizon2020 projects "PERISCOPE: Pan-European response to the impacts of covid-19 and future pandemics and epidemics (2020-2023)" and "FIN-TECH: Financial supervision and Technological compliance" (2019-2020). The projects have supported the research activity of 18 Phd students and of 13 Post-doc researchers. Editor of the scientific journals "Statistics" (Taylor and Francis) and "Artificial Intelligence" (Frontiers). Board member of "Journal of data science and analytics" (Springer).

Research fellow at the Bank for International Settlements and at the University College London center for Blockchain technologies. Expert advisor for the European Commission, the European Insurance and Occupational Pensions Authority, the Bank of Italy, the Italian Ministry of Development, the Italian Banking Association. Board member of the Credito Valtellinese bank (2010-2018). Expert member of the ISO/IEC JTC1/SC42 and CEN-CELENEC JTC21 standardisation committees on artificial intelligence (2023-). Elected fellow of the International Statistical Institute. Member of the Institute of Mathematical Statistics (IMS), the Association for Computing Machinery (ACM), the European Network for Business and Industrial Statistics (ENBIS), the European Big Data Value Association (BDVA) the International Association for Trusted Blockchain Applications (INATBA), the Italian Statistical Society (SIS). Honorary member of the Italian Association of Financial Risk Managers (AIFIRM).

Christian B. Westermann

Group Head of AI, Zurich Insurance

Christian is a technology enthusiast who has worked in different technology roles and positions over the past 20 years.

After having spent several years in software engineering in the early 2000s, he started in 2005 his career in consulting. In this role he has supported many companies on their journey towards technology and AI-driven innovation, in financial services, healthcare, pharma, defense and industrial manufacturing. In 2022, Christian joined Zurich Insurance Ltd. as Group Head of Artificial Intelligence. In this role he has found a great place to further push the technology boundaries in the core processes of insurance, along the entire value chain, with the use of AI and latest technology trends in Generative AI, for the benefits of Zurich's customers.

Christian's background is in space science. He has a PhD in Physics and has supported ESA and NASA on several space missions.

Session 2 : AI in asset management and securities markets

Jean-Paul Servais

Chair of the International Organization of Securities Commissions (IOSCO); Chair of the Belgium Financial Services and Markets Authority (FSMA)

Since October 2022, Jean-Paul Servais is the Chairman of the board of the International Organization of Securities Commissions (IOSCO). IOSCO is the membership organization composed of the world's financial markets regulators involved in the supervision of 95 % of the financial sector at international level. He is also the Chairman of the IOSCO European Regional Committee

Jean-Paul Servais is the first Belgian to be elected Chairman of IOSCO. His election was partly in recognition of his efforts and the quality of his work during the six years in which he was already vice-chairman of IOSCO. As IOSCO Chairman, he helped bring about major international breakthroughs in the regulation of crypto currencies and in introducing reporting standards on sustainability.

Between 2017 and 2023, Mr. Servais chaired the IFRS Foundation Monitoring Board, which consists of global financial regulators and provides oversight to the IFRS Foundation. In parallel, he was the co-chair of the Monitoring Group (2021-2023), a group of international financial institutions and regulatory bodies committed to advancing the public interest in areas related to international audit standard setting and audit quality. Within IOSCO, Jean-Paul also led the SPAC network, which successfully delivered a final report in May 2023.

Besides his international responsibilities, Mr Servais is the Chairman of the Belgian Financial Services and Markets Authority (FSMA). In this capacity, he is a board member of other international supervisory bodies for the financial sector such as the European Securities and Markets Authority (ESMA), and the European Systemic Risk Board (ESRB). Besides, he sits on a number of supervisory colleges that coordinate the (cross-border) supervision of financial institutions and infrastructures.

Through these experiences Jean-Paul has accrued a unique blend of supervisory expertise and regulatory acumen in the field of international financial services. Jean-Paul is known for his commitment towards investor protection. Beyond his thorough understanding on the functioning of traditional financial services and markets, Jean-Paul is an engaged and influential figure on sustainable finance and digital regulatory agendas.

Also based on his experiences as a supervisor and from his passion for education, Jean-Paul Servais had become imbued with the importance of financial education. He therefore requested and obtained from the Belgian legislator the power for the FSMA to contribute to the financial education of the population. Under his impetus, the FSMA launched in 2013 the now very successful Wikifin financial education programme. And in 2020, the Wikifin Lab opened in Brussels. This unique centre for financial education has since welcomed thousands of Belgian students and has become a reference at international level.

Jean-Paul teaches at the Université Libre de Bruxelles (ULB, University of Brussels), where he is part-time professor in International Business Law and in the specialised Master in Tax Law. He is author or co-author of more than 500 contributions, mostly engaging on European and international systems of financial supervision and regulation issues.

Lim Tuang Lee

Assistant Managing Director, Capital Markets Group, Monetary Authority of Singapore

Mr Lim Tuang Lee is the Assistant Managing Director of the Capital Markets Group, overseeing the regulation and supervision of capital markets. The group is responsible for the licensing and supervision of exchanges, clearing houses and capital markets intermediaries, including financial advisers.

Mr Lim represents MAS at various international committees, including the International Organisation of Securities Commissions (IOSCO). He currently chairs the IOSCO FinTech Task Force, which among others, looks into issues related to crypto-assets, decentralised finance (DeFi), and RegTech/SupTech.

Mr Lim has a Bachelor of Accountancy (First Class Honours) from the Nanyang Technological University and a Master degree in Finance (with specialisation in Risk Management and Financial Engineering) from the Université de Lausanne, Switzerland. He also holds an Executive Master of Change from INSEAD.

Jon Danielsson

Co-Director, Systemic Risk Centre, Department of Finance, London School of Economics

Jón Daníelsson is director of Systemic Risk Centre and Reader of Finance at the London School of Economics. He has also worked for the Bank of Japan and the International Monetary Fund. Since receiving his PhD in the economics of financial markets, Jón's work has focused on how economic policy can lead to prosperity or disaster. He is an authority on both the technical aspects of risk forecasting and the optimal policies that governments and regulators should pursue in this area. Jón has written three highly regarded books: The Illusion of Control (Yale University Press, 2022), which was included on the Financial Times "Best books of 2022" list; Financial Risk Forecasting (Wiley, 2011); and Global Financial Systems: Stability and Risk (Pearson, 2013). He has also contributed numerous academic papers on systemic risk, artificial intelligence, financial risk forecasting, financial regulation and related topics to leading academic journals. At the LSE he teaches courses in technical risk forecasting and on how the global financial system operates.

Pasquale Galassi

Head of Portfolio Construction Equity, Leading AI and Quant Community Project, Amundi Asset Management

Pasquale Galassi is Head of Portfolio Construction for the Equity Business Line at Amundi and Leads the AI and Quant community across the Investment Platform.

Prior to this, Pasquale was a Portfolio Manager within the European Equities team and Lead Portfolio Manager of Pioneer Funds – European Equity Optimal Volatility, based in Pioneer Investments' Dublin office. Prior to joining Pioneer Investments in 2013, he was founder and CIO of 77SigmaTrading s.r.l., the first Italian prop trading company deploying global macro trading framework across multiple asset classes.

Prior to this, Pasquale worked as a Volatility Portfolio Manager for Kairos Partners from 2010 to 2012 and as a Global Single Stocks Prop Trader with Banca Aletti from 2008 to 2010. Between 2005-2007, Pasquale worked for Antonveneta ABN-AMRO as a Prop Trader.

Pasquale received an MBA in Financial Engineering in 2002 after which he joined Euromobiliare Sim as a Proprietary Volatility Trader. Pasquale began his career as an Analyst in London at Barclays Capital Markets in 1999 before concluding his university studies.

Pasquale graduated from Hult International Business School with a BSc in Business Administration in 2000. In 2002, Pasquale attained his MBA from the European School of Economics

Sarah Heffron Nichomoff

Chief Data & Analytics Officer, J.P. Morgan
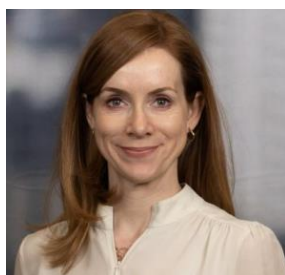
Sarah Heffron Nichomoff is the Head of J.P. Morgan's Chief Data & Analytics Office for the Commercial & Investment Bank. She leads various data initiatives across the CIB, streamlining data quality, reshaping advanced Applied AI/ML solutions across the firm at scale, and collaborating with firmwide data partners.

Previously, Sarah was the Managing Director and co-head of Electronic and Program Trading Execution for Global Equities. She was responsible for agency execution as well as managing the strategic direction, design, and delivery of J.P. Morgan's execution platform in the region. This includes liquidity management, portfolio optimization, algorithmic execution, and quantitative analytics.

Sarah joined J.P. Morgan in 1999 and has held various roles in Technology, Equities and Prime Brokerage. She has previously served on the boards of the National Stock Exchange (NSX), Equities Board of the Association of Financial Markets, and BIDS Trading LP (Block Interest Discovery Service), an alternative execution venue specializing in equity block trading. She was also an observer on the board of Turquoise Global Holdings Limited. She is currently a Non-Executive Director of J.P. Morgan Asset Management U.K. Sarah holds a B.S. in Computer Science from Tulane University's School of Engineering

Emily Prince

Group Head of Analytics, Product Management & Research, London Stock Exchange Group

Emily Prince is Group Head of Analytics at the London Stock Exchange Group (LSEG).

As part of the Data and Analytics Leadership team at LSEG, Emily leads the Analytics business and is the CEO of Yield Book. In this role Emily spearheads the transformation of trusted data into actionable and AI-powered insights across LSEG.

With a background of over 15 years in quantitative financial analytics at leading institutions such as Lehman Brothers, Barclays and BlackRock, Emily has extensive experience developing analytics solutions for customers. Emily also holds board positions with Turquoise and Finbourne.

Session 3 : Financial stability implications of the growing use of AI in finance

Lee Foulger

Director, Financial Stability Strategy and Risk, Bank of England

Lee is currently the Director of Financial Stability Strategy and Risk at the Bank of England, joining in January 2020. Before joining the Bank of England, Lee was Head of the International Department at the FCA 2017-2019 and oversaw the FCA's brexit preparations and international and EU engagement. Before joining the FCA Lee Foulger was a Cabinet Member for Valdis Dombrovskis covering Financial Markets and Capital Markets Union and was also a Cabinet Member to Commissioner Jonathan Hill. Lee started his professional career at the HM Treasury in 2001, where he undertook various different positions dealing with financial services, growth and taxation. Following that, he was involved in the creation of the ESAs, bank resolution and shadow banking at the European Commission. Between 2011 and 2014 he worked as the Head of Securities Markets Policy at Deutsche Bank, covering capital markets regulations.

Charles Cohen

Advisor on Financial Markets, International Monetary Fund

Charles Cohen is an Advisor in the Monetary and Capital Markets Department (MCM), where he works on a range of financial market issues. Previously he served as Deputy Division Chief in MCM's Global Markets Analysis and Debt Capital Markets divisions. In these roles he covered financial stability risks in emerging markets, and led policy work and technical assistance missions on sovereign debt issues in emerging and frontier markets. He served as mission chief for the 2019 Financial Sector Assessment Program (FSAP) in The Bahamas and the 2021 FSAP in Chile. Mr. Cohen joined the IMF in 2017 from the US Treasury, where he served as acting Director of Analysis for the Financial Stability Oversight Council. Prior to this, he spent 9 years as an Executive Vice President at Bain Capital Credit, where he worked in portfolio management, risk management, and macro strategy. Mr. Cohen holds a Ph.D. in Economics from Harvard University, an M.S. from the University of Chicago, and a B.S. from Stanford University.

Seung Lee

Deputy Associate Director, Federal Reserve Board

Seung Jung Lee is the Deputy Associate Director at the Federal Reserve Board who oversees the Financial Stability Research, Data, and Technology Analysis (RDaTA) Section in the Division of Financial Stability. He is also personally involved in various Federal Reserve System-wide research, data, and technology infrastructure projects related to understanding the financial stability implications of artificial intelligence, cyber incidents, and climate change-related extreme weather phenomena. Seung has a history of employing AI, machine learning, and other advanced technical methods for both policy and research. Seung is the co-creator of the fedmatch R package, a toolkit for entity resolution, which is widely used in both official and academic institutions. He is also the co-creator of FedBERT, a large language model pre-trained and fine-tuned on a large corpus of Federal Reserve communications. Before joining the Division of Financial Stability in 2023, Seung also worked in the Division of International Finance (2014-2023), the Division of Monetary Affairs (2009-2014), and the Division of Supervision and Regulation (2006-2009), where he worked on a wide range of topics related to international financial stability, monetary policy, and bank supervision and regulation, respectively, at the Federal Reserve Board. Seung has published with numerous coauthors in various economics and finance journals such as the *Journal of Financial Intermediation*, *Journal of Economic Dynamics and Control*, *Journal of Banking and Finance*, and the *Journal of Financial Stability*. He is also an editorial board member for *Measurement: Interdisciplinary Research and Perspectives*. Seung received his BA in economics from Yale University and PhD in economics from the University of Chicago.

Peter Kerstens

Advisor for Financial Sector Digitalisation and Cybersecurity, European Commission

Peter advises on Technological Innovation, Digital Transformation and Cybersecurity at the European Commission's financial services department. He has lead work on the European Commission's Fintech Action Plan and Digital Finance Strategy and co-chaired the European Commission's Fintech Taskforce. Peter is often referred to as the father of Mica (the EU Markets in Crypto Assets Regulation) and Dora (the EU Digital Operational Resilience Act).

Peter has extensive experience in EU policy and regulation in a wide variety of fields, including single market, financial services, digitalisation, security, foreign policy sanctions, consumer protection as well as health and food safety. Earlier in his career, Peter was Finance Counsellor at the EU Embassy in Washington DC. He has also been a member of the private offices of the commissioner for the internal market and services and the commissioner for health and consumer protection. Before joining the European Commission, Peter advised major corporations on EU policy and regulatory affairs.

He is a Dutch national and holds double magna cum laude master degrees in European affairs and political science from the College of Europe in Bruges and the University of Leuven, Belgium. He is an Adjunct Professor of Law at Vanderbilt University Law School and a consummate public speaker.

Valerie Szczepanik

Head of the Strategic Hub for Innovation and Financial Technology, U.S. Securities and Exchange Commission, and Chair of IOSCO AI Working Group

Valerie A. Szczepanik is the Director of the Strategic Hub for Innovation and Financial Technology (FinHub) Office at the U.S. Securities and Exchange Commission (SEC). Before that, she was the Senior Advisor for Digital Assets and Innovation and an Associate Director in the SEC's Division of Corporation Finance. She also served as Assistant Director in the SEC Division of Enforcement's Cyber Unit. Ms. Szczepanik served as a Special Assistant United States Attorney at the United States Attorney's Office for the Eastern District of New York. She clerked for federal judges on the United States District Court for the District of Columbia and the United States Court of Appeals for the Federal Circuit and, prior to clerking, practiced patent law. Ms. Szczepanik received her Juris Doctor degree from Georgetown University and her Bachelor of Science degree in Engineering from the University of Pennsylvania.

Session 4 : Financial consumer protection and market conduct considerations of AI in finance

Greg Sachrajda

Director, Cross-Cutting Policy and Strategy, UK Financial Conduct Authority

Greg is currently Interim Director of Cross-Cutting Policy and Strategy in the Financial Conduct Authority's Supervision, Policy and Competition Division.

Greg has previously held a number of roles at the Financial Conduct Authority, and its predecessor the Financial Services Authority. This includes Head of Department for International Delivery, leading on the delivery of the FCA's EU withdrawal and wider international work, ensuring the FCA and all sectors of the financial services industry were ready for key Brexit milestones.

Greg has also led key projects in the FCA's Transformation directorate to make the FCA the regulator it needs to be to meet today's challenges and those of the future, and has led multiple Enforcement teams. This includes heading up the Law, Policy and International department, and Enforcement's Relationship Management and Strategy Team. Greg has led numerous Enforcement investigations into suspected financial services misconduct, with experience of Tribunal proceedings and large-scale customer compensation programmes.

Before joining the FCA/FSA, Greg was a commercial litigation lawyer in London specialising in financial services litigation, representing subjects of regulatory investigations, advising clients on regulatory matters, and conducting internal investigations.

Alan AU

Executive Director, Banking Conduct. Hong Kong Monetary Authority

Alan is the Executive Director of the Banking Conduct Department of the Hong Kong Monetary Authority (HKMA). He is responsible for conduct supervision of banks in Hong Kong (covering consumer and investor protection, bank culture supervision, financial inclusion, and authorisation and licensing) as well as oversight of financial market infrastructures and payment systems.

Mr Au joined the HKMA in 2010 as Head of the Corporate Development Division. He also served as Administrative Assistant to the Chief Executive of the HKMA and worked as Division Head in the Banking Supervision Department, before taking up the present position in 2017.

Prior to joining the HKMA, Mr Au had served as an Administrative Officer in the HKSAR Government for over a decade, and had been posted to various offices and policy bureaux in the Government Secretariat including the Financial Secretary's Private Office and Financial Services and the Treasury Bureau.

Matthias Fahrenwaldt

Quantitative Risk Modeling Department, German Federal Financial Supervisory Authority (BaFin)

Matthias Fahrenwaldt is a senior member of the Quantitative Risk Modelling department of the Federal Financial Supervisory Authority (BaFin) in Bonn. Besides supervising market risk models at significant institutions he leads several projects for developing AI/ML regulation jointly with other supervisors/regulators. Holding mathematics degrees from Cambridge University and a history degree from the University of Oxford, Matthias also completed PhDs in theoretical mathematics and history. He is a qualified actuary and held managerial positions at KPMG and McKinsey before working in academia for ten years. His last position prior to joining the regulator was Associate Professor of Actuarial Science at Heriot-Watt University Edinburgh. Matthias has almost twenty years of experience in the financial sector serving banking and insurance groups as a consultant and academic. For his research contributions he was awarded several national and international prizes, and he is Affiliated Professor of Actuarial Science at the University of Copenhagen.

Colm Kincaid

Director of Consumer Protection, Central Bank of Ireland

Colm was appointed to the role of Director of Consumer Protection in October 2021. Prior to this, he was Director of Securities and Markets Supervision and prior to that Head of Consumer Protection: Policy & Authorisations and Deputy Head of the Legal Division at the Central Bank of Ireland. He joined the Central Bank in 2004 and has also practised as a solicitor in commercial practice in London and Dublin, specialising in financial regulation and structured finance.

Astrid Ludin

Commissioner, Financial Sector Conduct Authority, South Africa

Astrid Ludin is a Deputy Commissioner at the Financial Sector Conduct Authority of South Africa since June 2021. Her responsibilities include oversight over financial market and retirement fund supervision. She has more than 25 years of experience in public policy and regulation, and led major law reforms, including the reform of company, consumer protection and credit legislation in South Africa between 2002 and 2007. In her capacity as Deputy Director-General at the dtic, she had policy responsibility for competition, company, intellectual property, consumer protection, credit, gambling, lotteries, and liquor legislation and exercised oversight over the associated regulatory agencies.

Astrid spent 3 years at the Competition Commission (1999 to 2002), responsible for stakeholder relations, communications, education and voluntary compliance, and was involved in a number of major mergers and investigations. She served as the first Commissioner of the Companies and Intellectual Property Commission (CIPC) between 2011 and 2015, where she oversaw the modernisation of the office and its transformation into a regulatory institution.

In various consulting capacities, Astrid has provided research and policy advice to the dtic, the National Treasury, the Prudential Authority, Strate, a range of South African financial services firms, and financial sector regulators in Africa. Her areas of expertise include consumer protection, market conduct and financial market regulation, financial inclusion, financial education and innovation.

Yuji Yamashita

Deputy Commissioner of International Affairs, Japan Financial Services Agency and Vice-Chair of the International Financial Consumer

Yuji YAMASHITA is currently the Deputy Commissioner for International Affairs at Japan's Financial Services Agency (JFSA).

He plays leading roles in various global financial fora, including chairmanship of (1) International Financial Consumer Protection Organisation (Vice Chair), (2) Peer Review Team of MMF reforms at FSB, (3) Committee of Evaluation of Standards on Legal Entity Identifiers (LEI) at Regulatory Oversight Committee (ROC) in 2022-2023, and (4) Joint Committee of APEC's Asian Regional Fund Passport (ARFP) in 2022.

In addition, he is a member of CPMI-IOSCO Steering Committee, IOSCO Fintech TF Steering Committee, CPMI-IOSCO-BCBS Senior Group on Margin, G20-OECD TF on Consumer Protection. He is also an alternate member of FSB's Standing Committee of Standards and Implementation (SCSI) and Regional Consultative Group for Asia (RCGA). He was also engaged in international dialogues on Insurances.

Mr. Yamashita started his career at the Bank of Japan (BoJ) in 1993.

He has been engaged in various monetary and prudential policy functions. He also worked at the International Accounting Standards Board (IASB) as a project leader to develop accounting standards for Interest Rate Risk Management (Dynamic Risk Management, or Macro Hedging). Before the current position, he was the Chief Representative in Paris of Bank of Japan.

Mr. Yamashita has a bachelor's degree in Economics from University of Tokyo and Master's degree of Public Financial Policy from London School of Economics (LSE).

Session 5 : Regulatory, supervisory and other policy approaches to AI in finance: status quo and the way forward

Aerdt Houben

Director of the European Banks Supervision Division at De Nederlandsche Bank and Chair of the OECD Committee on Financial Markets

Aerdt HOUBEN is Director Supervision European Banks at De Nederlandsche Bank (DNB), responsible for the prudential supervision of significant financial institutions in the Netherlands. Prior to this, within DNB, he was Director Financial Markets, Director Financial Stability, Supervisory Strategy Department Head and Monetary Policy Department Head. He has worked at the IMF, in the Policy Development and Review Department. He currently chairs the Committee on Financial Markets at the OECD. He has been a member of the Committee on the Global Financial System and the Markets Committee at the BIS, the Basel Committee on Banking Supervision, the Financial Stability Committee of the ECB and the International Organisation of Pension Supervisors and has been a member of numerous other policy committees in the context of the IMF, Financial Stability Board, ECB and the ESRB.

Houben is professor of ´Financial Policies, Institutions and Markets´ at the University of Amsterdam. He has a PhD in monetary economics and has published broadly on financial issues.

Michael Carlson

Director, U.S. Department of the Treasury, Office of International Financial Markets, US Treasury

Mike Carlson, Director, U.S. Treasury's Office of International Financial Markets, co-leads the team responsible for international financial stability and regulatory policy. He works closely with counterparts at multilateral institutions, including the G7/G20, Financial Stability Board, and OECD, as well as Treasury's bilateral engagements. Carlson is currently the vice-chair of the OECD's Committee on Financial Markets and leads an FSB workstream on data frameworks for cross-border payments. His previous work at Treasury has focused on the UK and Nordic economies, non-bank financial intermediation, and the evaluations of the effects of post-crisis financial reforms. Carlson has also worked at the Federal Reserve Board, in the International Banking and Finance Office as well as the office that created the large financial institutions stress testing regime. He holds a Master in Public Affairs from Princeton University and a Bachelor of Arts from Austin College.

Juraj Čorba

Digital Regulation and Governance Expert, Slovakian Ministry of Investments, Regional Development and Informatization and Chair of the OECD Working Party on AI Governance

Juraj Čorba (born in Bratislava, 1978), Chair of OECD Working Party on AI Governance (AIGO) and member of OECD AIGO expert groups on risk and accountability and on AI Futures. Juraj is responsible for digital regulation and governance at the Ministry of Informatisation, Slovakia (expert position). Juraj was leading negotiations on behalf of Slovakia on the EU´s AI Act at the Council of the EU and on the first international Convention on AI, Human Rights, Democracy and the Rule of Law at the Committee on AI at the Council of Europe. Chair of the Reflection Group of European policy makers on general purpose AI/foundation models, operationally supported by The Future Society. Former agent of Slovakia before the Court of Justice of the EU and former practising private legal counsel specialising in EU economic regulatory affairs. Studied law and political science (Comenius University, Bratislava; Institute of Advanced Legal Studies, University of London). Author of script of experimental graphic novel on professional and moral challenges related to the use of AI (published in Slovakia, 2019).

Ana Maria Fimin

Digital Finance Unit, European Commission (DG FISMA)

A European Commission Policy and Legal officer with extensive experience in driving EC policy goals in the field of 1) ICT technologies as part of the Digital Single Market streams of work/digital regulatory policies (Data Economy package/Internet of Things (IoT), 5G, Artificial Intelligence (AI))/ consumer protection and internal market rules for digital products and services (e.g. liability rules, data protection issues, cybersecurity rules etc; 2) competition law (state aid matters); and 3) industrial and R&I policies ((IoT/AI/ connected and automated mobility).

Amy Lee

Head of Fintech Hub, Bank of England

Amy has been co-Head of the Bank of England's Fintech Hub since 2021, working to explore how FinTech developments might support the Bank's mission to promote the good of the people of the UK by maintaining monetary and financial stability.

Amy has occupied a variety of roles across the Bank over the last decade, latterly working in the office of the Deputy Governor for Markets & Banking.

Uzma Wahhab

Associate Director, Supervisory and Regulatory Division, US Federal Reserve Board

Uzma Wahhab is currently an Associate Director in the Division of Supervision and Regulation's Policy Planning function. In this role, she oversees S&R staff responsible for identifying, researching, and analyzing strategic policy issues and collaborates with domestic and foreign supervisory authorities to facilitate the effective supervision and regulation.

Prior to this role, Uzma supported Vice Chair Quarles in his role as Financial Stability Board Chair. In this role, she helped to develop FSB strategy as well as oversee day to day operations.

Uzma's career has focused on legal and regulatory policy issues in financial services for over 20 years. Before joining the FRB, she worked for the SEC's Office of the General Counsel for over a decade, the Financial Stability Board in Basel and for Board Member J. Brown at the PCAOB.

Closing Remarks

Costas Stephanou

Head of Financial Stability Analysis, Financial Stability Board (FSB)

Costas Stephanou oversees the FSB's work to assess vulnerabilities in the global financial system, monitor the implementation of G20 financial reforms, and evaluate the effects of those reforms. He also coordinates the FSB's analytical work to enhance the resilience of non-bank financial intermediation. Mr Stephanou previously worked as a Senior Financial Economist at the World Bank, where he participated in financial sector assessments and worked on banking regulation and supervision, risk management, access to finance, and free trade agreements and financial services; he is also the author of several papers on these topics. Prior to joining the World Bank, he worked as a risk management consultant and in risk management and strategy for a globally active bank. Mr Stephanou holds degrees in Economics and Public Policy from the universities of Cambridge and Harvard respectively.