



CONCORDi 2023

9th European Conference on
Corporate R&D and Innovation

Industrial innovation **for** **Open Strategic Autonomy**

*Leaving no one
and no place
behind*

Programme

24 - 26
October 2023
Seville, Spain

Co-organised with



Joint
Research
Centre

Programme

⏮ Streaming of Plenary sessions only

Tuesday 24 October 2023

*The registration at the conference's venue opens at 12h30, on Tuesday, 24th October 2023.

OPENING

⏮ ● 14h30 - 15h10 | Opening of the Conference and of the Scientific Forum

Chair: **Stephen Quest**, Director-General, Joint Research Centre, European Commission

Opening address: **Elisa Ferreira**, Commissioner for Cohesion and Reforms, European Commission

Opening address: **Teresa Riesgo**, Secretary-General for Innovation, Spanish Ministry for Science and Innovation

Keynote speaker: **Maive Rute**, Deputy Director-General, Directorate General for Internal Market, Industry, Entrepreneurship and SME – European Commission

Keynote speaker: **Sandrine Dixon-Declève**, Vice-president Club of Rome and Chair of the European Commission's Economic & Societal Impacts from Research & Innovation Expert Group (ESIR).

● 15h15 - 16h45 | Parallel sessions I - [details are in the addendum 1]

Coffee Break & posters session - [details of posters are in the addendum 2, 3 and 4]

● 17h15 - 18h45 | Parallel sessions II - [details are in the addendum 1]

Programme

Streaming of Plenary sessions only

Wednesday 25 October 2023

SCIENTIFIC FORUM

● 9h15 - 9h30 | Opening

Opening address: **Salla Saastamoinen**, Deputy Director-General, Joint Research Centre - European Commission

● 9h30 - 10h00 | Plenary (1) “Academic contribution to innovation and entrepreneurship”

Chair: **Román Arjona**, Chief Economist, Directorate-General for Internal Market, Industry, Entrepreneurship and SME, European Commission

Keynote: **Natacha Valla**, Dean of the Sciences Po School of Management and Innovation at Sciences Po Paris University (FRA)

Q&A

● 10h00 - 11h30 | Parallel sessions III - [details are in addendum 1]

Coffee Break & posters sessions [details of posters are in addendum 2, 3 and 4]

● 11h45 - 13h15 | Parallel sessions IV [details are in addendum 1]

Tapas-Lunch break

Programme

⏮ Streaming of Plenary sessions only

⏮ ● **14h30 - 15h00 | Plenary (2) “Research, innovation, and technology policy in times of geopolitical competition”**

Chair: **Alexandr Hobza**, Chief Economist, Directorate-General Research & Innovation, European Commission

Keynote: **Luc Soete**, UNU-MERIT, Maastricht University and BSoG, Free University of Brussels (VUB) (NLD)

Q&A

● **15h10 - 16h30 | Parallel sessions V** - [details are in the addendum 1]

Coffee Break & posters session - [details of posters are in the addendum 2, 3 and 4]

● **17h00 - 18h30 | Parallel sessions VI** - [details are in the addendum 1]

20h15 - Awards ceremony with the delivery of the Best Paper Award CONCORDi 2023 and the Fair and sustainable economy award 2023 of the Joint Research Centre. This ceremony will be followed by a cocktail-dinner in the same place: Real Circulo de Labradores y Proprietarios, Calle Pedro Caravaca, 1, 41004 Seville

Programme

Streaming of Plenary sessions only

Thursday 26 October 2023

POLICY FORUM

● 9h30 - 10h10 | Plenary (1) Welcome and opening

Chair: **Mikel Landabaso**, Director of Fair and Sustainable Economy Directorate, Joint Research Centre, European Commission

Opening address: **Diego Rubio**, Director of the National Office of Foresight & Strategy of the Spanish Government

Opening address: **Jorge Paradela**, Andalusian Regional Minister of Industry, Energy and Mining

● 10h15 - 11h10 | Plenary (2) “Industrial innovation for Open Strategic Autonomy: Governance and international organizations; Trade and Innovation & industrial policies”

Chair: **Barbara Kauffmann**, Director for employment and social governance, analysis at the European Commission, Directorate General for Employment, Social Affairs and Inclusion

Keynote: **Fabrizia Lapecorella**, Deputy Secretary-General, Organisation for Economic Co-operation and Development

Keynote: **Gerd Müller**, Director-General - United Nations Industrial Development Organisation

Keynote: **Leopoldo Rubinacci**, Deputy Director-General, Directorate General for Trade - European Commission

Keynote: **Signe Ratso**, Deputy Director-General, Directorate-General for Research and Innovation, European Commission

Q&A

Coffee Break

Programme

Streaming of Plenary sessions only

● 11h35 - 12h30 | Plenary (3) “Industrial innovation for Open Strategic Autonomy: Competition policy; Industrial investment; Next generation health technology; Digital & Green transition”

Chair: **Bernard Magenmann**, Deputy Director-General, Joint Research Centre - European Commission

Keynote: **Olivier Guersent**, Director-General, Directorate General for Competition - European Commission

Keynote: **Debora Revoltella**, Director, Economics Department and Chief Economist - European Investment Bank

Keynote: **Juan Martínez-Barea**, Founder and Executive President, Universal DX

Keynote: **María Ángeles Martín-Prat**, CEO and Founder, Skylife

Q&A

● 12h30 - 13h30 | Closing plenary (4)

Chair: **Asunción Fernández Carretero**, Deputy Director of Fair and Sustainable Economy Directorate, Joint Research Centre, European Commission

Speaker: **Chiara Criscuolo**, Scientific Committee member of CONCORDi 2023 ; Head of Division, Science Technology and Innovation Directorate, OECD (FRA)

Keynote: **Ricardo Hausmann**, Harvard University (USA)

Closing address: **Mikel Landabaso**, Director of Fair and Sustainable Economy Directorate, Joint Research Centre, European Commission

13h30 End of the Conference



ADDENDUM: Parallel sessions of the *SCIENTIFIC FORUM*Speakers in **bold**

Tuesday 24 October 2023

I	I A (blue room) ●	I B (yellow room) ●	I C (green room) ●	I D (purple room) ●
15h15 - 16h45	<p>Supply chains & critical technology Chair: Zoltón Cséfalvay (<i>Mathias Corvinus Collegium, HUN</i>)</p> <hr/> <p>Measuring technological and innovation vulnerability in critical supply chains: a framework for analysis Linas Eriksonas (<i>Center For Physical Sciences and Technology, LTU</i>)</p> <hr/> <p>Supply chain analysis and material demand forecast in strategic technologies and sectors in the EU – A foresight study Samuel Carrara, <i>Angel Prior Arce</i>, <i>Anca Itul</i>, <i>Teodor Kuzov</i>, <i>Patricia Alves Dias</i>, <i>Michalis Christou</i>, <i>Thibaut Maury</i> (– <i>JRC</i>)</p>	<p>Knowledge creation and diffusion Chair: Carmen Cabello Medina (<i>Universidad Pablo de Olavide, ESP</i>)</p> <hr/> <p>Out of equilibrium and intangible assets Giudo Pialli (<i>University College London, GBR</i>), Cristiano Antonelli (<i>Università di Torino & Collegio Carlo Alberto, ITA</i>), Gianluca Orsatti (<i>Università di Torino, ITA</i>)</p> <hr/> <p>Knowledge sources for Industry 4.0 technologies in European regions: The role of inward FDIs Michela Bello (<i>European Commission – JRC</i>), Davide Castellani (<i>University of Reading, GBR</i>), Giacomo Damioli (<i>University of Bremen, DEU</i>), Giovanni Marin (<i>University of Urbino, ITA</i>), Sandro Montresor (<i>Gran Sasso Science Institute, ITA</i>)</p>	<p>Green technologies and finance Chair: Peter Voigt (<i>European Commission, DG ECFIN</i>)</p> <hr/> <p>Financial Barriers to Green Innovation Maarten de Ridder (<i>London School of Economics, CFM and POID, GBR</i>), Philippe Aghion (<i>Collège de France, INSEAD and London School of Economics, FRA</i>), Antonin Bergeaud (<i>HEC Paris, POID and CEPR, FRA</i>), John van Reenen (<i>London School of Economics, CEP and POID, GBR</i>)</p> <hr/> <p>Do green foreign direct investments increase the innovative capability of MNE subsidiaries? Roberta Rabellotti (<i>Università di Pavia</i>), Vito Amendolagine (<i>Università di Foggia, ITA</i>), Ulrich Elmer Hansen (<i>Technical University of Denmark, DNK</i>), Rasmus Lema (<i>UNU - Merit, NLD</i>), Dalila Ribauda (<i>Aston Business School, GBR</i>)</p>	<p>Innovation in critical technologies and materials Chair: Luis Tercero Espinoza (<i>Fraunhofer ISI, DEU</i>)</p> <hr/> <p>Rare metals and innovation strategies of top R&D investors Francesco Quattraro (<i>University of Turin & Collegio Carlo Alberto, ITA</i>), Gianluca Orsatti, Fabrizio Fusillo (<i>University of Turin, ITA</i>)</p> <hr/> <p>What next? Nations in the technological race through a projection to 2030 Antonio Vezzani (<i>Rennes School of Business, FRA</i>), Daniele Archibugi (<i>Italian National Research Council – IRPAS, ITA</i>), Vitantonio Mariella (<i>University of Bergamo, ITA</i>)</p>

Tuesday 24 October 2023

Speakers in bold

<p>I</p>	<p>I A (blue room) ●</p> <p>The global position of the EU in complex technologies</p> <p>Valentina di Girolamo, Alessio Mitra, Julien Ravet, Oceane Peiffer-Smadja (European Commission – DG RTD), Pierre-Alexandre Balland (Utrecht University, NLD)</p>	<p>I B (yellow room) ●</p> <p>A green industrial policy success case: All aboard the electric bus in The Netherlands</p> <p>Matthijs Kallenbach, Toon Meelen, and Matthijs Janssen (Utrecht University, NLD).</p>	<p>I C (green room) ●</p> <p>Green industrialization and local job multipliers</p> <p>Federico Frattini (Fondazione Eni Enrico Mattei, ITA), Filippo Bontadini (LUISS University, ITA), Italo Colantone (Bocconi University, ITA), Francesco Vona (University of Milan, ITA)</p>	<p>I D (purple room) ●</p> <p>Emerging technologies, tasks, skills and industry exposure: results from a Real Time Delphi Survey</p> <p>Ana Oliveira (Utrecht University / UNU-MERIT, NLD), Tommaso Ciarli (UNU-MERIT / University of Sussex, SPRU, NLD), Chiel Scholten (Technopolis, NDL)</p>
<p>II</p> <p>17h15 - 18h45</p>	<p>II A (blue room) ●</p> <p>Digitalisation, firm performance and labour markets I Chair: Michelle Cincera (Université Libre de Bruxelles, BEL)</p> <p>Skills for circular innovation: evidence from Emilia-Romagna, Italy</p> <p>Giulio Pedrini (University of Enna – Kore, ITA), Roberto Antonietti (University of Padova, ITA), Davide Antonioli (University of Ferrara, ITA), Luca Cattani (Gran Sasso Science Institute, ITA), Elisa Chioatto (University of Ferrara, ITA)</p>	<p>II B (yellow room) ●</p> <p>Digitalisation, firm performance and labour markets II Chair: María Dolores Añón Higón (Universitat de València, ESP)</p> <p>Industrial Innovation and Knowledge Disclosures: Exploring Firms' R&D Signalling Strategies through Websites and Patents</p> <p>Arash Hajikhani (VTT Technical Research Centre of Finland & LUT U.), Daniele Rotolo (SPRU & Polytechnic U. of Bari)</p>	<p>II C (green room) ●</p> <p>Innovation and sustainability Chair: Francesco Rentocchini (European Commission, JRC)</p> <p>Patents for industrial pollution prevention and control</p> <p>Andrea Tacchella (Centro Ricerche Enrico Fermi, ITA), Robert Marschinski (European Commission - JRC)</p>	<p>II D (purple room) ●</p> <p>The resilience of supply chains Chair: Roberta Rabelotti (Università di Pavia, ITA)</p> <p>Bringing supply chains back home: effects on regional inequalities in the EU</p> <p>Alberto Palazzolo, Glenn Magerman (Université Libre de Bruxelles and CEPR, BEL)</p>

Tuesday 24 October 2023

Speakers in bold

II

II A (blue room) ●

Digitalisation and high growth enterprises in Europe

Mercedes Teruel (Universitat Rovira I Virgili), **Peter Bauer** (European Commission – JRC), **Alex Coad** (Waseda Business School), **Clemens Domnick** (European Commission – JRC), **Peter Harasztosi**, **Desirée Rückert**, **Christoph Weiss** (European Investment Bank)

Technological innovation, digital adoption and firm performance

Christoph Weiss, **Nihan Akhan**, **Clémence Faivre**, **Péter Harasztosi**, **Desirée Rückert** (European Investment Bank)

II B (yellow room) ●

Technological cycles and labor markets: Evidence from European regions

Florenca Jaccoud (Unu - Merit, NLD), **Tommaso Ciarli** (Unu - Merit, NLD University of Sussex - SPRU), **Fabien Petit** (University of Sussex - SPRU, GBR), **Maria Savona** (University of Sussex - SPRU, GBR)

Innovating for the good or for the bad. An EU-wide analysis of the impact of technological transformation on the labour market

Silvia Napolitano (Cnam-Lirsa, Cnam-Ceet, FRA), **Nathalie Greenan** (Cnam-Lirsa, Cnam-Ceet and Tepp, FRA), **Ylenia Curci** (Femto-St/Recits, Utbm and Cnam-Ceet, FRA)

II C (green room) ●

An econometric analysis of the energy savings performance of the Italian plastic manufacturing sector

Valeria Costantini, **Mariagrazia D'Angeli**, **Martina Mancini** (Roma Tre University, ITA), **Chiara Martini** (Enea, ITA), **Elena Paglialonga** (University of Urbino Carlo Bo, ITA)

The influence of bottlenecks on innovation systems performance: Put the slowest climber first

Jon Mikel Zabala Iturriagagoitia (Deusto Business School), **Juan Aparicio** (Universidad Miguel Hernández, Elche, ESP), **Javier Barbero**, **Jose Luis Zofio** (Universidad Autónoma de Madrid, ESP)

II D (purple room) ●

Diversify or not? – The link between global sourcing of ICT goods and firm performance

Thomas Niebel, **Irene Bertschek** (ZEW Mannheim, DEU), **Alexander Schiersch** (DIW Berlin, DEU)

Global Value Chain Disruptions: The Role of Firm Heterogeneity

Juan Ruiz Garcia (European Commission – JRC)

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Speakers in bold

III	III A (blue room) ●	III B (yellow room) ●	III C (green room) ●	III D (purple room) ●	III E (orange room) ●
<p>10h00 - 11h30</p>	<p>Public policies and R&D Chair: Helena Lenihan (<i>University of Limerick, IRE</i>)</p> <hr/> <p>How effective are R&D tax incentives? Reconciling the micro and macro evidence</p> <p>Matěj Bajgar (<i>Charles University, GBR</i>), Silvia Appelt, Chiara Criscuolo, Fernando Galindo-Rueda (<i>OECD</i>)</p> <hr/> <p>R&D grants and the novelty of innovation</p> <p>Andrea Mina (<i>Sant'Anna School of Advanced Studies and University of Cambridge, ITA</i>), Martina Iori (<i>Sant'Anna School of Advanced Studies, ITA</i>), Pietro Santoleri (<i>European Commission – JRC</i>)</p> <hr/> <p>Systemic capacities and capabilities for mission oriented policies: the case of Brazil's Inova programme</p> <p>Caetano Penna (<i>Tpm, TU Delft, NLD</i>), Mariana Mazzucato (<i>Iipp, University College London, GBR</i>), Guilherme De Oliveira Santos (<i>Gei, Ufrj, BRA</i>)</p>	<p>Cooperation and Innovation Chair: Fernando Santiago (<i>UNIDO, AUS</i>)</p> <hr/> <p>Sensitive (to) Content: Exploring the relationship between repeated engagement and thematic specialization in regional R&D networks</p> <p>Dima Yankova (<i>Ingenio – Universitat Politecnica de Valencia, ESP</i>)</p> <hr/> <p>Does collaboration in R&I promote levelling-up? An analysis of UKRI funding between 2004-2021</p> <p>Raquel Ortega Argilés (<i>Manchester Business School, GBR</i>)</p> <hr/> <p>Cooperation for innovation with EU partners in times of crisis</p> <p>Antonio García-Sánchez (<i>University of Seville, ESP</i>), Ruth Rama (<i>IEGD and CSIC, ESP</i>)</p>	<p>Inequality and firm performance Chair: Marco Vivarelli (<i>Università Cattolica di Milano, ITA</i>)</p> <hr/> <p>Advanced digital technologies and labor market outcomes</p> <p>Elena Grinza (<i>University of Turin, ITA</i>), Laura Abrardi, Carlo Cambini, Lorien Sabatino (<i>Politecnico di Torino, ITA</i>)</p> <hr/> <p>Patterns of Structural Change, Employment and Inequality in Europe: a Complexity Approach</p> <p>Bernardo Caldarola, Dario Mazzilli, Angelica Sbardella, Aurelio Patelli (<i>Enrico Fermi Research Center, ITA</i>)</p> <hr/> <p>How do public procurement contract awards influence the performance of digital firms in Europe?</p> <p>Johan Stake, Daniel Nepelski (<i>European Commission, JRC</i>)</p>	<p>Technology and Innovation Chair: Gaétan De Rassenfosse (<i>Ecole Polytechnique Fédérale de Lausanne, CHE</i>)</p> <hr/> <p>Innovation efficiency and complexity of innovation strategy: a trade-off relationship</p> <p>Kostas Tsekouras, George Koutsouradis (<i>University of Patras, GRC</i>), Areti Gkypali (<i>Athens University of Economics and Business, GRC</i>)</p> <hr/> <p>Standardization and standards: safeguards of technological sovereignty?</p> <p>Knut Blind (<i>TU Berlin, Fraunhofer ISI, DEU</i>)</p> <hr/> <p>Linking digital and industrial transformation: an analysis of the advanced manufacturing ecosystem through the lens of strategic autonomy</p> <p>Elisa Calza, Michail Papazoglou, Juan Torrecillas Jodar, Miguel Vázquez-Prada Baillet, Montserrat Lopez Cobo, Giuditta de Prato (<i>European Commission – JRC</i>)</p>	<p>Special JRC Session on Industrial innovation and transformation Chairs: James Gavigan (<i>European Commission, JRC</i>) and Evgeni Evgeniev (<i>European Commission, DG-R&I</i>)</p> <hr/> <p>Industrial Innovation for Open Strategic Autonomy: The EU in the global technological race</p> <p>Alex Tübke (<i>European Commission, JRC</i>)</p> <hr/> <p>Digital transformation in Europe: Opportunities and challenges</p> <p>Giuditta de Prato (<i>European Commission, JRC</i>)</p> <hr/> <p>Investment in (in)tangibles during COVID: Insight from firm-level analysis</p> <p>Peter Bauer (<i>European Commission, JRC</i>)</p>

Wednesday 25 October 2023

Speakers in bold

IV

11h45 - 13h15

IV A (blue room)

Green and digital transition I
Chair: **Karoline Rogge** (*Fraunhofer Institute for Systems and Innovation Research, DEU; and University of Sussex, GBR*)

Regional technological capabilities and green opportunities in Europe

Angelica Sbardella (*Enrico Fermi Research Center, ITA*), **Davide Consoli**, **Francois Perruchas** (*Ingenio – Universitat Politecnica de Valencia, ESP*) **Emanuele Pugliese**, **Lorenzo Napolitano** (*European Commission - JRC*), **Nicolò Barbieri** (*Ferrara University, ITA*)

The complementarity between digitalization and sustainability strategies and their impact on growth: An empirical analysis on European SMEs

Maria Luisa Mancusi (*Università Cattolica - Milano, ITA*), **Nicoletta Corrocher** (*Università Bocconi, ITA*)

IV B (yellow room)

Green and digital transition II
Chair: **Antoine Dechezleprêtre** (*OECD, FRA*)

The Impact of Digital Technologies on Sustainable Development in Scientific Literature

Giacomo Damioli (*University of Bremen, DEU*), **Stefano Bianchini** (*University of Strasbourg, FRA*), **Marco Colagrossi** (*European Commission - JRC*), **Claudia Ghisetti** (*University of Milan Bicocca, ITA*), **Kevin Michoud** (*University of Strasbourg, FRA*)

What drives Green Innovation? Uncovering Territorial Factors and Policy Implications

Friedrich Lucke (*European Commission - JRC*), **Fulvia Marotta** (*Oxford University, GBR*), **Tobias Wendler** (*University of Bremen, DEU*)

IV C (green room)

Green and digital transition III
Chair: **Reinhilde Veugelers** (*KULeuven, BEL*)

Analysing the determinants of digital transformation of small and medium-sized enterprises in Spain as an innovation process

Isidoro Romero (*University of Seville, ESP*), **Huseyn Mammadov** (*University of Urbino, ITA*).

Potential of S3 specialisation areas on spillover effect and contribution to digital and green transition.

Sergio Salamone, **Francesco Giovanni Truglia**, **Salvatore Cusimano** (*ISTAT, ITA*)

IV D (purple room)

Innovation in times of crisis
Chair: **Lucia Morales** (*Technological University Dublin, IRL*)

From critical raw materials identification and circularity analysis to enhancement of EU strategic autonomy: a product policy contribution

Thibaut Maury, **Umberto Eynard**, **Fulvio Ardente**, **Giorgia Faraca**, **Chiara Magrini**, **Angela Ranea Palma** (*European Commission - JRC*)

Science in a War Zone: The Devastating Effects of Conflict on Ukrainian Research

Gaetan Derassenfosse, **Wolf-Hendrik Uhlbach** (*Ecole polytechnique fédérale de Lausanne, CHE*), **Tetiana Murovana** (*National University of Kyiv, UKR*)

IV E (orange room)

Transforming neighbourhoods through innovation: a New European Bauhaus (NEB) Mission
Chair: **Manuel Moguer** (*Journalist*)

Proposal for a dedicated New European Bauhaus mission

Johan Stierna (*European Commission, JRC*)

Innovative and traditional solutions to address the climate challenge

Fernando Mañes Izquierdo (*Sevilla City Council, ESP*)

Circular solutions for neighbourhoods

Francisco José Pazos, Salas Mendoza (*Nomad Garden, ESP*)

New spaces by taking existing transport infrastructure to a new level

Shane Donatello (*Viegand Maagøe, DK*)

[1] Note: With a focus on research and innovation solutions, the European Commission proposed in July 2023 a sixth Horizon Europe Mission fully dedicated to the NEB mission. NEB aims to transform neighbourhoods across Europe for the better, making them beautiful, sustainable and inclusive. These neighbourhoods should act as 'living labs' for innovation.

Wednesday 25 October 2023

Speakers in **bold**

<p>IV</p>	<p>IV A (blue room) ●</p> <p>Does Green Transition promote Green Innovation and Technological Acquisitions?</p> <p>Maria Martinez Cillero (European Commission – JRC), Udichibarna Bose (University of Essex, GBR), Wildmer Daniel Gregori (Banco de Portugal, PRT)</p>	<p>IV B (yellow room) ●</p> <p>Diversity, social capital and green innovations</p> <p>Benjamin Cornejo-Costas (Utrecht University, NLD)</p>	<p>IV C (green room) ●</p> <p>Walking the Green Mile: Government Sponsored R&D and Clean Technologies</p> <p>Sandro Montresor (Gran Sasso Science Institute, ITA), Francesco Rentocchini (European Commission - JRC), Antonio Vezzani (Rennes School of Business, FRA)</p>	<p>IV D (purple room) ●</p> <p>The conduct of international technology cooperation in a turbulent geopolitical environment: the perspective of a small tech-savvy EU-country</p> <p>Santtu Lehtinen, Matthias Deschryvere (VTT Technical Research Centre of Finland, FIN)</p>
<p>V</p> <p>15h00 - 16h30</p>	<p>V A (blue room) ●</p> <p>The role of R&D Chair: Hanna Hottenrott (Technische Universität München & ZEW, DEU)</p> <p>The markets for technology, corporate research and firm value in Europe</p> <p>Diego Useche, Valerio Sterzi (University of Bordeaux, FRA)</p>	<p>V B (yellow room) ●</p> <p>R&D and productivity Chair: Javier Miranda (Halle Institute for Economic Research, DEU)</p> <p>Automation adoption and export performance: Evidence from French firms</p> <p>Giacomo Domini (Utrecht University), Thao Trang Nguyen (UNU-Merit, Maastricht University, NLD), Marco Grazzi (Catholic University of The Sacred Heart, Milan, ITA), Daniele Moschella (Sant'Anna School of Advanced Studies, ITA), Tania Treibich (Maastricht University, NLD)</p>	<p>V C (green room) ●</p> <p>Technology and Growth Chair: Knut Blind (TU Berlin, Fraunhofer ISI, DEU)</p> <p>Technological diversification shocks and the growth of regions</p> <p>Silvia Rocchetta, Robert Gillanders (Dublin City University, IRE), Martina Iori (Sant'Anna School of Advanced Studies, ITA), Andrea Mina (Sant'Anna School of Advanced Studies and University of Cambridge, ITA)</p>	<p>V D (purple room) ●</p> <p>Regional Governance Chair: Raquel Ortega Argilés (Manchester Business School, GBR)</p> <p>The role of regulation and regional government quality for high growth firms</p> <p>Sara Amoroso (DIW Berlin, DEU), Benedikt Herrmann (European Commission - JRC), Alexander Kritikos (DIW Berlin, DEU)</p>

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Speakers in bold

<p>V</p>	<p>V A (blue room) ●</p> <hr/> <p>Building a resilient EU pharma industry</p> <p>Ligia Ernesto, Sandro Mendonça (<i>Iscte Business School, PRT</i>), Bruno Damásio (<i>Universidade Nova de Lisboa, PRT</i>), Rui Loureiro (<i>Universidade de Lisboa, PRT</i>)</p> <hr/> <p>What is it good for? Framing the usefulness of R&D in a multinational firm</p> <p>Magnus Gulbrandsen (<i>University of Oslo, NOR</i>), Erlend Osland Simensen (<i>Narsus, University of Oslo, NOR</i>)</p>	<p>V B (yellow room) ●</p> <hr/> <p>Exploring the nexus between appropriability and productivity in highly innovative and globalised companies</p> <p>Randolph Luca Bruno (<i>Università Cattolica, Milan</i>; <i>University College London, ITA</i>), Sara Amoroso (<i>DIW Berlin, DEU</i>), Laura Magazzini (<i>Sant'Anna School of Advanced Studies, ITA</i>)</p> <hr/> <p>Public R&D and long term productivity growth</p> <p>Arnaud Dyèvre (<i>London School of Economics, GBR</i>)</p>	<p>V C (green room) ●</p> <hr/> <p>The smart specialisation policy and inclusive growth of European regions</p> <p>Deyu Li, Sergio Petralia, Milene Tessarin, Ron Boschma (<i>Utrecht University, NLD</i>)</p> <hr/> <p>Technological diversification throughout global value chains: The role of interregional value chain linkages in European regions</p> <p>Eduardo Hernandez Rodriguez (<i>Utrecht University, NLD</i>)</p>	<p>V D (purple room) ●</p> <hr/> <p>Building the circular economy through public procurement in the EESC region</p> <p>Stephanie Francis Grimbert, Jon Mikel Zabala Iturriagoitia (<i>Deusto Business School, ESP</i>)</p> <hr/> <p>Governance and the effectiveness of Research & Innovation funding: Evidence from European regions</p> <p>Anabela Marques Santos, Marie Lalanne (<i>European Commission – JRC</i>), Alex Coad (<i>Waseda Business School, JPN</i>)</p>
<p>VI</p> <p>17h00 - 18h30</p>	<p>VI A (blue room) ●</p> <hr/> <p>Venture capital and deep-tech I Chair: Antonio Vezzani (<i>United Nations Conference on Trade and Development, CHE</i>)</p>	<p>VI B (yellow room) ●</p> <hr/> <p>Venture capital and deep-tech II Chair: Alexander Tübke (<i>European Commission, JRC</i>)</p>	<p>VI C (green room) ●</p> <hr/> <p>Industry Session Chair: Giancarlo Caratti (<i>European Commission, JRC</i>)</p>	<p>VI D (purple room) ●</p> <hr/> <p>Special ESIR² Session on Open Strategic Autonomy Chair: Francisca Martins (<i>Member of ESIR</i>)</p> <p>[2] Note: ESIR stands for "Economic and societal impact of research and innovation"; a group of high-level experts of the European Commissioner for Innovation, research, culture, education and youth.</p>

Wednesday 25 October 2023

Speakers in bold

VI

VI A (Room 1)



Role of corporate investors in the funding and growth of clean energy tech ventures

Simon Letout, *Aliki Georgakaki*, *Anna Kuokkanen* (European Commission – JRC)

Novel Insights into Governmental Venture Capital Strategies in Europe

Giuseppina Testa (Università di Foggia), *Ramon Compano* (European Commission - JRC, ESP), *Anita Quas* (University Of Milan, ITA)

How to overcome the valley of death in advanced technological fields

Georges Romme (Eindhoven University of Technology, NLD), *John Bell* (Hightechxl, NLD), *Guus Frericks* (Deeptechxl, NLD)

VI B (yellow room)



The EU health innovation ecosystem and the role of venture capital

Sofia Amaral-Garcia (European Commission – JRC), *Reinhilde Veugelers* (KU Leuven, BEL)

The Polish SMEs on the road to Industry 4.0: opportunities, challenges and barriers to innovation

Renata Włoch, *Śledziowska Katarzyna* (University of Warsaw, POL)

The determinants of Public Grants and Venture Capital financing: Evidence from Europe

Andrea Bellucci (University of Insubria, ITA), *Gianluca Gucciardi* (University Of Milan-Bicocca, ITA) *Daniel Nepelski* (European Commission – JRC, ESP)

VI C (green room)



Artificial intelligence for Sustainable Energy Transition

Cristina de Inza, *Beatriz Crisostomo*, *Maria Duran*, *Luis Malumbres* (Iberdrola, ESP)

Stimulating the Uptake of Emerging Techniques for Decarbonisation, Depollution and Circularity in Industry through the Innovation Centre For Industrial Transformation and Emissions (INCITE)

Simon Gutierrez, *Eric Aries*, *Sonia Fereres*, *Georgios Chronopoulos*, *Panagiotis Karlis* (European Commission – JRC, ESP)

Clean Aviation initiatives of the Industry – Airbus and Airbus Defence and Space

Antonio Hernandez Martin De Arriva, *Laurent Thomasson* (Airbus Operations, FRA)

VI D (purple room)



Keynote reflections

Sandrine Dixon-Declève (Chair of ESIR)

The nexus between technology, geopolitics and Europe's competitiveness

Sylvia Schwaag Serger (lead speaker, Member of ESIR), *Ricardo Hausmann* (Harvard University, USA) [TBC]

Research and innovation in a complex geopolitical context

Kirsten Dunlop (lead speaker, Member of ESIR), *Maarten de Ridder* (London School of Economics, GBR)

Harnessing Europe's strategic strength: Industry 5.0

Andrea Renda (lead speaker, Vicechair of ESIR), *Reinhilde Veugelers* (KU Leuven - BEL)

Education & Skills

Daria Tataj (lead speaker, Member of ESIR)

Q&A and concluding remarks

Francisca Martins & Sandrine Dixon-Declève

ADDENDUM 2: Poster presentations of the *SCIENTIFIC FORUM*

Speakers in bold

Title

R&D cooperation strategies and firm ownership: Partner location and group membership

Financing instruments and challenges for innovation in the EU: Panel evidence from the SAFE survey.

Gender Diversity in Industry 4.0 Patents: Novelty & Impact

The greener the better? Heterogeneous effects of environmental innovation on firm performance.

When digital meets green: Smart-circular strategies among European start-ups and scale-ups.

Public Procurement and Young Firms.

Patent management in open innovation perspective: The China's case.

The dynamics between startups and incumbents in service robot manufacturing

Author(s)

Yingmin Wei, André Spithoven (Ghent University, BEL)

Alessio Mitra, *Valentin a di Girolamo, Julien Ravet, Oceane Peiffer-Smadja (European Commission, DG R&I)*

Ghinwa Moujaes (*Ingenio, CSIC – UPV Universitat Politècnica de València, ESP*)

Gianluca Biggi, *Andrea Mina and Federico Tamagni (Scuola Superiore Sant'Anna, ITA)*

Mercedes Teruel, *Agustí Segarra-blasco, Josep Tomàs-Porres (Universitat Rovira i Virgili, ESP)*

Lena Fünér, *Bastian Krieger (ZEW Mannheim, DEU)*

Liliana Mitkova (*University Evry Paris Saclay, FRA*), *Ogsuz Gizem (University Gustaf Eiffel, FRA)*

Zoltán Cséfalvay (*Mathias Corvinus Collegium, HUN*)

ADDENDUM 3: JRC Poster presentations of the *SCIENTIFIC FORUM*

Speakers in bold

Title

Intellectual Property bundle of top corporate R&D investors: The EC-JRC-OECD's COR&DIP© database v4, 2023

Productivity analysis to scientific-based EU policy making

Economic complexity for innovation policy-making

Twenty year lessons from the EU Industrial R&D Investment Scoreboards

The EU Surveys on Industrial R&D Investment Trends

Firm dynamics and innovation: results from the JRC-EIB collaboration

The influence of the EU Industrial R&D Investment Scoreboard in Science

Geographical Distribution and Features of startups in Europe

Author(s)

*Hélène Dernis, Antoine Dechezleprêtre (OECD, FRA), **Lorenzo Napolitano**, Alexander Tübke (European Commission, JRC)*

***Peter Bauer**, Aurélien Genty, Friedrich Lucke and Juan Carlos Ruiz (European Commission, JRC)*

***Dario Diodato** and Lorenzo Napolitano (European Commission, JRC)*

***Héctor Hernández** and Nicola Grassano (European Commission, JRC)*

***Elisabeth Nindl** (European Commission, JRC)*

*Peter Bauer and **Clemens Dominick** (European Commission, JRC)*

***Hugo Confraria**, Nicola Grassano, Pietro Moncada-Paternò-Castello, Elisabeth Nindl (European Commission, JRC)*

*Giuseppina Testa (Università di Foggia, ITA), **Péter Fákó**, Ramón Compañó (European Commission, JRC)*

ADDENDUM 4: Other invited poster presentations of the *SCIENTIFIC FORUM*

Title

Closing innovation gaps in Europe: Boosting the modest or moderate levels of innovation through the EIT's Regional Innovation Scheme (RIS)

Author(s)

***Daniela Placinta**, Cristina Dans, Francesca Girardi (EIT Manufacturing, FRA)*

ADDENDUM 5: Biographies

CONCORDi 2023 - SCIENTIFIC COMMITTEE MEMBERS

Román Arjona (*European Commission, EUR*)

Román Arjona is Chief Economist at the Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs. In addition to his role at the European Commission, Dr Arjona is Vice-Chair of the OECD's Committee for Industry, Innovation and Entrepreneurship (CIIE). He was Chief Economist and Head of Strategy and Foresight at the Directorate-General for Research & Innovation, and Vice-Chair of the OECD's Committee for Science and Technology Policy (CSTP). He previously served in the Spanish government as Secretary-General for Science, Technology and Innovation, and before joining the Commission he was an adviser to the Spanish State Secretary and the Spanish Minister for Science and Technology. Mr Arjona worked for the European Investment Bank and the International Monetary Fund as well as for the OECD as an economist. He is a former member of the World Economic Forum's High-Level Advisory Group of the Europe Inclusive Growth and Competitiveness Lab, and of its Global Agenda Council on New Growth Models. Román graduated in Economics at the University of Valencia with a special distinction and holds a Masters' degree in European Economic Studies from the College of Europe in Bruges and a PhD in Economics from the European University Institute in Florence.

Michele Cincera (*Université Libre de Bruxelles, BEL*)

Michele Cincera is Professor of Industrial economics at the Solvay Brussels School of Economics and Management – Université Libre de Bruxelles. Since 2012, he is the Director of the International Centre of Innovation, Technology and Entrepreneurship Studies (iCite). Michele Cincera is also the Managing Director of his own Consultancy company His research interests embrace the quantitative assessment at the micro-level of innovative and entrepreneurial activities, their determinants and socio-economic impacts as well as the analysis of National Innovation Systems and policies supporting science, research and innovation and the digitalization of our societies. He has participated over the recent years to several impact assessments (ex-ante, interim and ex-post using ad-hoc qualitative and quantitative methodologies) of Belgian and European RDI programmes and policy instruments.

Chiara Criscuolo (*Organisation for Economic Co-operation and Development, FRA*)

Chiara Criscuolo is head of the Productivity, Innovation and Entrepreneurship Division in the Directorate for Science, Technology and Innovation at the OECD. Mainly, her work focuses on entrepreneurship, enterprise dynamics, productivity and policy evaluation. In this realm, she has coordinated large cross-country microdata projects on employment dynamics, productivity, as well as research and development. Chiara has played a lead role in advancing the use of firm level data and of microdata projects within the OECD. She has contributed to key horizontal and high level projects and publications, including the OECD volumes "Future of Productivity", "New sources of growth: Knowledge Based capital", and the "OECD Innovation Strategy". She co-manages the

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Global Forum on Productivity is also a member of the French and Portuguese National Productivity Boards. Ahead of joining the OECD, Chiara received her doctoral degree in Economics from University College London and held academic appointments at the University of Siena, City University and the University of Cambridge, in addition to the London School of Economics.

Dominique Foray (*École Polytechnique Fédérale de Lausanne, CHE*)

Dominique Foray is Professor (em) at the Ecole Polytechnique Fédérale de Lausanne (Switzerland). From 2018 to 2022, he served as Dean of the College of Management of Technology at EPFL. He is also Vice-President of the Swiss Science Council (SWR). From 2008 to 2016, he was a member of the Swiss Research Council at the Swiss National Foundation and served for 4 years as Chairman of the Advisory Board of the Swiss Economic Research Institute (KOF at ETH Zurich). His area of research and expertise covers innovation economics, economics of knowledge, general purpose technologies, mission-oriented innovation policy and his favorite application domains are healthcare, mobility, sustainability and space. He is a consultant for many organizations – such as WIPO, OECD, the World Bank, the European Commission, UNCTAD, WHO, etc.. He has developed – together with Paul David and Bronwyn Hall, the policy concept of smart specialization which is now a major policy approach in the European Union.

Alexandr Hobza (*European Commission, EUR*)

Alexandr Hobza is Chief Economist at the Directorate-General for Research & Innovation of the European Commission. With his team, he strives to enhance the evidence base in support of science, technology and innovation policies of the European Commission. He serves as a Vice-Chair of the OECD Committee for Scientific and Technological Policy. Previously, he headed teams working on assessments of structural reforms and was an advisor to the Director-General of DG ECFIN of the European Commission. Before joining the European Commission, he also worked as a Research Fellow at the Centre for European Policy Studies in Brussels. He holds a PhD degree from the University of Economics in Prague, D.E.A. degree in quantitative economics from Université Libre de Bruxelles and M.A. degree in Economics of European Integration from an international programme delivered by University of Antwerp, Staffordshire University and University of Economics in Prague.

Hanna Hottenrott (*Technische Universität München & ZEW, DEU*)

Hanna Hottenrott is professor of Economics of Innovation at the Technical University of Munich (TUM) and heads the research department for Economics of Innovation and Industrial Dynamics at the Leibniz Centre for European Economic Research (ZEW). Her research examines the drivers of industrial innovation, the impact of science and science funding on technological change, and the role of innovation policy. She holds an advanced degree in economics from the University of Heidelberg and obtained a PhD in applied economics from KU Leuven (Belgium) in 2010. At KU Leuven she was affiliated with the Department of Managerial Economics, Strategy and Innovation and worked on topics relating to the financing of research and development (R&D) in the business sector. After graduating she was awarded a fellowship from the Flemish Science Foundation (FWO) and

ADDENDUM 5: Biographies

investigated questions in the fields of innovation and science policy. Prior to her current position, she was an assistant professorship at the Düsseldorf Institute for Competition Economics (DICE) of the University of Düsseldorf. Hanna Hottenrott is also a core member of the Munich Data Science Institute.

Helena Lenihan (*University of Limerick, IRE*)

Helena Lenihan is Full Professor of Economics at the Kemmy Business School, University of Limerick, Ireland. She is an applied economist whose research interests include the economics of innovation, innovation and innovation policy, drivers of firm performance and growth, policy evaluation, innovation and human capital, and industrial/enterprise development and policy. Helena was an invited Visiting Fellow at Judge Business School, University of Cambridge, UK. She was also a Visiting Fellow at Wolfson College, University of Cambridge, where she is now a lifetime member. Helena is a Research Associate at the UK's Enterprise Research Centre. Professor Lenihan regularly publishes articles in impactful international journals. These include: *Research Policy*; *Small Business Economics*; *Regional Studies*, *Ecological Economics*; *The Journal of Technology Transfer*; *Environment and Planning C*; *Applied Economics*; *Industry and Innovation* and *The World Economy*. Helena is currently Principal Investigator on a five year project funded by Science Foundation Ireland under its Science Policy Research programme. This research project evaluates the impact of innovation and science policy instruments on firm performance, from national and international perspectives. To deliver on this current project, she leads a team of Postdoctoral Researchers, PhD students and Research Assistants based at the University of Limerick.

Javier Miranda (*Halle Institute for Economic Research, DEU*)

Javier Miranda is a Professor in Structural Change and Productivity at Halle Institute for Economic Research (IWH), as well as a Professor at Friedrich Schiller University Jena. His research focuses on business dynamics, job creation and growth, entrepreneurship, high growth firms, innovation, business finance, and synthetic data.

Javier Miranda received his bachelor's degree from Universidad Autonoma Madrid, his master's degree and his PhD from American University in Washington, D.C. Prior to joining IWH, he was Principal Economist at the U.S. Census Bureau.

Pietro Moncada-Paternò-Castello (*European Commission, EUR*)

Pietro Moncada-Paternò-Castello is Senior Expert (Adviser equivalent position of the Management and Advisory staff) in Economics and Policy of Industrial Research & Innovation at the European Commission (EC), Joint Research Centre (JRC) – Directorate for Fair and Sustainable Economy (ESP). Former responsibilities within the EC's JRC include: Acting Head of Unit, "Knowledge for Growth" and "Support to the European Research Area"; Action Leader, "Economics of Industrial Research and Innovation"; Manager, "European Science and Techno Observatory"; Marketing and Quality Manager; Co-ordinator, "Innovation, Diffusion and Growth" project, and of the activities on "Innovation for Green Deal Strategy and Coordination". Before joining JRC he worked, as Founder and President, in the Agency for Natural Resources Energy and Technology (ANETEC, BEL), in the MIT Energy Laboratory, Electric Utility Program (USA) and in the EC's Directorate General for Research and Innovation (BEL). He holds a BSc in Agricultural Sciences (major in techno-economics) from the University of Catania (ITA), a MSc

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in Management of Technology from the Massachusetts Institute of Technology (USA) and a PhD in Economics and Management from the Université Libre de Bruxelles (BEL). His research interests include: Economics of corporate R&D and innovation, industrial dynamics, innovation and competitiveness; management of technological change, and research & innovation policy.

Roberta Rabellotti (*Università di Pavia, ITA*)

Roberta Rabellotti is Professor of Economics at the Department of Political and Social Science, University of Pavia (Italy). After graduating in Economics at Università Bocconi, she got a Master of Science in Development Economics at the University of Oxford (St. Antony's College) and a Doctor of Philosophy at the Institute of Development Studies, University of Sussex. Roberta is an economist with experience in qualitative and quantitative research in the field of economics of innovation, economic development, and regional economics. Among the topics addressed are clusters, global value chains (GVCs) with a special focus on innovation in GVCs, innovation activities of multinationals from emerging markets, innovation systems in developing countries and more recently the green and digital transitions in latecomer countries. Prof. Rabellotti has widely published in international outlets. Her research was featured in several media outlets, including *The Economist*. Throughout her career, Roberta participated in and led several research and consultancy projects. She has provided academic advice to, amongst others, the European Commission, the IADB, OECD; UNIDO; UN-CEPAL, UNCTAD, the ADB and various national and regional governments.

Debora Revoltella (*European Investment Bank, EUR*)

Debora Revoltella is Director of the Economics Department of the European Investment Bank (EIB), serving as Chief Economist. Since her arrival in 2011, Debora has designed and led the work for flagship publications such as the EIB Investment Report. She launched the idea and led the process for the design and implementation of the EIB Investment Survey, a survey covering 12,500 European firms which has become a unique asset in understanding investment dynamics in Europe. Debora holds a degree in Economics, a Master in Economics from Bocconi University and a PhD in Economics from the University of Ancona, Italy. She 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.

Karoline Rogge (*Fraunhofer Institute for Systems and Innovation Research, DEU; and University of Sussex, GBR*)

Karoline Rogge is Professor in Sustainability Innovation and Policy at SPRU – the Science Policy Research Unit at the University of Sussex in Brighton, UK. Additionally, she serves as the Deputy Head of the Competence Centre Policy and Society at the Fraunhofer Institute for Systems and Innovation Research ISI in Karlsruhe, Germany. Karoline's interdisciplinary research and teaching revolves around the acceleration of transitions towards more sustainable systems of production and consumption, with a focus on the interplay between policy mixes and innovation. She currently leads the ERC-funded project EMPOCI, investigating the governance of sustainable energy-mobility transitions

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across Germany, the UK, the US and China. Karoline received her PhD from ETH Zurich in 2010, analysing the innovation impact of the EU emission trading system in the German power sector. Prior to specialising on innovation, she did her graduate studies in environmental and ecological economics, and her undergraduate studies in geo-ecology and business administration. Since 2022, Karoline is an Associate Editor for Research Policy, handling submissions on sustainability transitions and socio-technical systems; eco-innovation, transformative innovation and social innovation; policy mixes, politics, and climate, innovation & industrial policy – topics she has been investigating in multiple research projects, such as SONNET, PATHWAYS or GRETCHEN.

Reinhilde Veugelers (*Catholic University Leuven - BEL*)

Prof Dr. Reinhilde Veugelers is a full professor at KULeuven (BE) at the Department of Management, Strategy and Innovation. She is a Senior Fellow at Bruegel since 2009 and a Senior Non-Resident Fellow at the Peterson Institute for International Economics since 2020. She is also a CEPR Research Fellow, a member of the Royal Flemish Academy of Belgium for Sciences and of the Academia Europaea. From 2004-2008, she was on academic leave, as advisor at the European Commission (BEPA Bureau of European Policy Analysis). She served on the ERC Scientific Council from 2012-2018 and on the EU-RISE Expert Group advising the commissioner for Research. She is a member of VARIO, the expert group advising the Flemish minister for Innovation. She is currently a member of the Board of Reviewing Editors of the journal Science and a co-PI on the Science of Science Funding Initiative at NBER. With her research concentrated in the fields of industrial organisation, international economics and strategy, innovation and science, she has authored numerous well cited publications in leading international journals. Specific recent topics include novelty in science and technology development, global innovation value chains, young innovative companies, innovation for climate change, industry science links and their impact on firm's innovative productivity, evaluation of research & innovation policy.

Marco Vivarelli (*Università Cattolica di Milano, ITA*)

Marco Vivarelli, Ph.D. in Economics and Ph.D. in Science and Technology Policy, is full professor at the Catholic University of Milano, where he is also Director of the Department of Economic Policy. He is member of the Academia Europaea and of the European Academy of Sciences and Arts. He is Professorial Fellow at UNU-MERIT, Maastricht and Research Fellow at IZA, Bonn. He is member of the International Board of the Austrian Institute of Economic Research (WIFO, Vienna) and has been scientific consultant for the ILO, the World Bank, the Inter-American Development Bank, UNIDO and the European Commission. He is Editor-in-Chief of the Eurasian Business Review, Editor of Small Business Economics, Associate Editor of Industrial and Corporate Change; his papers have been published in journals such as Cambridge Journal of Economics, Canadian Journal of Economics, Economics Letters, Industrial and Corporate Change, International Journal of Industrial Organization, Journal of Economics, Journal of Evolutionary Economics, Journal of Population Economics, Journal of Productivity Analysis, Labour Economics, Oxford Bulletin of Economics and Statistics, Regional Studies, Research Policy, Small Business Economics, Southern Economic Journal, Technological Forecasting and Social Change, World Bank Research Observer, World Development

Conference's venue

Cartuja Center CITE

Calle Leonardo da Vinci 7
Isla de la Cartuja, Seville (Spain)

Additional information:

<https://iri.jrc.ec.europa.eu/concordi-2023>

