

WORLD MANUFACTURING FORUM 2024

"NEW PERSPECTIVES FOR THE FUTURE OF MANUFACTURING: Outlook 2030"

14 - 15 October 2024

Big Theatre




MIND Milano Innovation District - Milan

14 October | 09:00 AM - 12:30 PM CET

World Manufacturing Forum's Company Visits

Company visits will take place on October 14th in the morning. Since they are scheduled at the same time, it will be possible to attend only one visit only.

In order to attend your company visit of choice, you will need to confirm your attendance to Oct. 14 program.

		
<p>Viale Sarca 220, 20126, Milano Pirelli, one of the oldest multinational corporations in the history of Italy, was founded in Milan in 1872 and today stands as a global brand known for its cutting-edge technology, high-end production excellence and passion for innovation that draws heavily on its Italian roots.</p>	<p>Via P. Neruda 2, Binasco (MI) Cimbali Group is one of the leading manufacturers of professional machines for making coffee and milk-based drinks, as well as coffee shop equipment. The Group, which includes the La Cimbali, Faema, Slayer and Casadio brands,</p>	<p>Via Camillo Olivetti 2, Agrate Brianza (MB) STMicroelectronics is a global leader in semiconductor technology, creating innovative solutions that positively impact people's lives. With a team of over 50,000 people, including more than 9,500 employees in Research and Development,</p>

With 18 production plants in 12 countries and a commercial presence in over 160, Pirelli is among the world's major producers of tyres and associated services and the only one focused solely on the Consumer tyre market, which includes tyres for cars, motorcycles and bicycles. The research and development activities carried out by Pirelli constitute a central phase for the evolution of new products. Innovation and care for the environment in the R&D laboratories mean raw materials from renewable and recycled sources and also testing prototypes for the creation of increasingly safe, sustainable tyres. The history of Pirelli is a case apart in terms of its corporate culture, which combines technological innovation and liberal culture, scientific research and artistic experimentation, as well as the promotion of talent and an international vision. The goal of preserving the cultural, historic and contemporary heritage of the company led to the creation of the Pirelli Foundation in 2008. The role of the Pirelli Foundation is to promote the bond between the Group in Italy and around the world, and the multi-disciplinary culture that has always been a primary aspect of Pirelli's identity. A constant commitment to combining memory and future.

operates through three production plants in Italy and one in the United States (in Seattle, where the machines are produced under the Slayer brand), employing a total of around 850 employees. The Group's commitment to promoting espresso culture and the local area led to the foundation of MUMAC (Coffee Machine Museum) in 2012, the first and largest permanent exhibition dedicated to the history, world and culture of espresso machines, located at the Cimbali Group headquarters in Binasco. MUMAC is home to MUMAC Academy, Cimbali Group's coffee machine academy, a training, promotion and research centre.

MUMAC - Coffee Machine Museum by Cimbali Group
Opened in 2012 to mark the centenary of the company founded by Giuseppe Cimbali in Milan, thanks to the Cimbali and Maltoni collections the museum is the largest permanent exhibition on the history, world and culture of professional espresso machines. With over 100 machines on display at the Cimbali Group headquarters in Binasco (Milan), the museum explores over 120 years of the history and evolution of an entire Made in Italy sector not just from a technology perspective but also in terms of the design and the customs connected with coffee consumption. MUMAC has a further 250 pieces which it exhibits on a rotation basis in the museum or loans to international institutions, a library of around 1300 specialist books and an archive with tens of thousands of documents. It organizes exhibitions, round tables, educational initiatives for schools, universities and families and, through the MUMAC Academy, holds courses for coffee industry professionals and coffee lovers.

the company serves over 200,000 customers worldwide. Their technology plays a critical role in shaping today's world. As pioneers in advanced technology, STMicroelectronics designs and delivers microchips (or "chips") that power cutting-edge innovations. These chips are embedded in a wide range of products, from electric vehicles and factory machines to data centers, smartphones, and even everyday items like toothbrushes and washing machines.

At the core of STMicroelectronics is a mission to create semiconductor technologies that contribute to a smarter, greener, and more sustainable future. They believe technology holds the potential to address key environmental and social challenges, and this belief is reflected in their strong partnerships with employees, customers, and industry collaborators.

As a global Integrated Device Manufacturer (IDM), STMicroelectronics invests in proprietary technologies and a robust manufacturing infrastructure. This allows them to design, produce, and deliver high-quality products, offering customers expertise, security, and reliability. The company's innovation is guided by long-term trends that are reshaping industries and societies, paving the way for a more sustainable future.

14 October Programme | 02:00 PM - 06:10 PM CET
Big Theatre, MIND Milano Innovation District - Milan

**WMF 2024 Part I: *NEW PERSPECTIVES FOR THE
FUTURE OF MANUFACTURING: OUTLOOK 2030***

Moderator: **Andrea Cabrini**, Managing Editor, Class CNBC

01:45 PM – 02:00 PM *Accreditation*

**02:00 PM – 02:20 PM *Introduction and opening
remarks***

Diego Andreis, President, World Manufacturing Foundation

Francesco Buzzella, President, Confindustria Lombardia

Marco Taisch, Scientific Chairman, World Manufacturing
Foundation

Marco Alparone, Vice President and Councilor for Budget
and Finance, Regione Lombardia

**02:20 PM – 02:30 PM *Special Address: “Future-
Proofing Manufacturing and its Supply Chains”***

Ian Cronin, Community Curator, Centre for Advanced
Manufacturing & Supply Chains, World Economic Forum

02:30 PM – 2:50 PM *Presentation of the 2024 World Manufacturing Report: “New Perspectives for the Future of Manufacturing: Outlook 2030”*

David Romero, Scientific Vice-Chairman, World Manufacturing Foundation

02:50 PM – 03:10 PM WMF Keynote: “Tipping Points for the Manufacturing Sector”

Steve Smith, Tipping Points Impact Fellow; Hoffmann Fellow | Green Futures Solutions, University of Exeter; The World Economic Forum

03:10 PM – 04:00 PM WMF Panel I: “Living on the Edge: Climate Change & Sustainability Tipping Points for Manufacturing”

As climate change accelerates and sustainability imperatives become increasingly urgent, the manufacturing sector finds itself confronting environmental tipping points that demand decisive action. The “Living on the Edge” panel will explore these present and near-coming pivotal moments where the choices made today will shape the future of manufacturing and its role in the broader planet ecosystem. From supply chain disruptions driven by extreme weather events to the imperative of decarbonisation in production processes, manufacturers are facing multifaceted challenges.

This panel will delve into the complex interplay between economic viability and environmental stewardship,

highlighting the innovative strategies and technologies that hold the potential to tip the scales towards sustainability.

Eric Enselle, Executive Fellow, World Economic Forum, Centre for Advanced Manufacturing and Supply Chains

Luca Torelli, EMEA Operations PMO & Transformation Manager, EssilorLuxottica | Young Manufacturing Leaders Member

Vanya Manolova, Global Supply Chain Chief of Staff, Schneider Electric

04:00 PM – 04:30 PM *Coffee Break*

04:30 PM – 05:20 PM *WMF Panel II: “Influx of Technology: Technological Tipping Points for Competitive Manufacturing”*

The rapid advancement of technology and today's fast-paced market are reshaping the manufacturing landscape, ushering in a new era of competitiveness and innovation. As emerging technologies reach tipping points of adoption and integration, manufacturers face a critical juncture where strategic technological decisions will determine their future success. The “Influx of Technology” panel will investigate the transformative potential of modern technologies such as artificial intelligence, collaborative and mobile robotics, additive manufacturing, and the Internet of Things to gain competitive advantages.

From optimising production processes to enabling mass customisation, the power of these edge technologies represents both opportunities and challenges for manufacturers. This panel will explore the most important technological tipping points shaping competitive manufacturing today, and chart a course towards a future where innovation drives success in manufacturing.

Zhe Shi, Chief Digital Officer, Foxconn

Olaf Pannenbaecker, Chairman, European Factories of the Future Research Association (EFFRA)

Thorsten Wuest, Professor, University of South Carolina

05:20 PM – 06:10 PM WMF Panel III: “Demographic Cliff: Societal Tipping Points for Manufacturing Workforce”

The manufacturing sector is on the brink of a significant demographic shift that poses challenges and opportunities for workforce sustainability. As the ageing workforce retires and younger generations enter the job market with different skill sets and expectations, manufacturers must navigate this demographic cliff to ensure a robust and resilient workforce for the future. The “Demographic Cliff” panel will confront the societal tipping points affecting the manufacturing workforce and explore strategies for adaptation and transformation. From upskilling and reskilling initiatives to fostering diversity and inclusion, manufacturers must examine the multifaceted dimensions of workforce development.

This panel will address the demographic challenges facing manufacturing by embracing diversity, investing in education and training, and leveraging technology such as artificial intelligence and intelligent automation to bridge the skills gap and cultivate a dynamic and inclusive workforce capable of driving innovation and sustained growth.

Jose Roberto Favilla Jr, WW Director and Global Industry 4.0 Leader, IBM Corporation

Johan Stahre, Professor, Head of Division, Chalmers University of Technology

Vanessa Wainwright, Founder, abodoo Limited

15 October Programme | 09:00 AM – 01:10 PM CET
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**WMF 2024 Part II: *NEW PERSPECTIVES FOR THE
FUTURE OF MANUFACTURING:
OUTLOOK 2030***

Moderator: **Andrea Cabrini**, Managing Editor, Class CNBC

09:00 AM – 09:30 AM *Accreditation*

**09:30 AM – 09:50 AM *Keynote: “No More Waiting Time To
Foster Competitiveness Through Gender Equality in
Manufacturing Companies”***

Cristina Oyón, Director of Technology, Innovation and
Sustainability, SPRI

**09:50 AM – 10:40 AM *WMF Panel IV: “Skills Crisis:
Talent Tipping Points for Manufacturing”***

The manufacturing sector is undergoing a profound skills crisis, marked by a growing gap between the skills demanded by modern manufacturing processes and those possessed by the workforce. As technological advancements reshape the sector, manufacturers face critical tipping points in talent acquisition, development, and retention.

The “Skills Crisis” panel will face the talent challenges confronting manufacturing head-on, exploring innovative strategies for navigating these tipping points and ensuring a skilled workforce for the future. From identifying emerging skill requirements to implementing effective training and development programs, manufacturers must cultivate a diverse and resilient talent pipeline capable of driving innovation and sustaining competitiveness. This panel will focus on forging a path towards a future where skilled workers are empowered to thrive in an ever-evolving industry landscape.

Juliane Hess, Director Service Operations Repair and Field Service Industrial Hydraulics, Bosch Rexroth AG

Jason Wang, Managing Director, Smart Factory Institute

Simon Jacobson, VP, Analyst, Gartner

10:40 AM – 11:30 AM WMF Panel V: “Geopolitical Shifts: Global Trade Tipping Points for Manufacturing & Supply Chains”

The dynamics of global trade are undergoing profound shifts, driven by geopolitical developments, trade policies, and economic uncertainties. These changes present both challenges and opportunities for manufacturers and supply chains, necessitating a strategic approach to navigate the tipping points that define the future of global trade. The “Geopolitical Shifts” panel will discuss the pivotal moments shaping global trade and their implications for manufacturing and supply chains worldwide.

From trade disputes and tariff escalations to geopolitical tensions and supply chain disruptions, manufacturers must find ways to successfully navigate the complexities of the global trade landscape. This panel will highlight best practices and innovative approaches for mitigating risks and seizing opportunities in an increasingly uncertain global trade environment that calls for resilient manufacturing and supply chain ecosystems.

Dean Bartles, CEO & President, MTDG

Simone Marchetti, Business Development Manager, Oracle

Agustín Saenz, Strategy, Market & Technology Director,
Tecnalia Research & Innovation

11:30 AM – 12:00 PM *Coffee Break*

12:00 PM – 12:50 PM WMF Panel VI: “*Innovate or Else: Economic Tipping Points for Manufacturing Business & Operating Models*”

In the face of rapid technological advancements, changing consumer demands, and evolving market dynamics, the manufacturing sector finds itself at a pivotal time. Traditional business and operating models are being challenged, necessitating a long-overdue modernisation to drive sustainable growth and competitiveness. The “Innovate or Else” panel will seek to catalyse a dialogue on the need for innovation in manufacturing business and operating models.

From embracing digital transformation to reimagining supply chain management and customer engagement, manufacturers must explore the transformative potential of innovation across all aspects of production operations to remain competitive or even survive in the global arena. This panel will shed light on the latest trends and strategies for driving meaningful change and unlocking new business opportunities in the manufacturing landscape.

Cynthia Hutchison, CEO, US Center of Advanced Manufacturing

Jeff Winter, Smart Manufacturing Advisor, CESMII

Vinesh Maharaj, Associate Director, PwC's Smart Manufacturing

12:50 PM – 01:00 PM *Special Address: “Progress by Digital Transformation - Inclusive and Sustainable Growth and Innovation”*

Ana Paula Nishio de Sousa, Chief of the Division of Digital Transformation and AI Strategies, Directorate of Technical Cooperation and Sustainable Industrial Development, UNIDO

01:00 PM – 01:10 PM *Closing Remarks*

Diego Andreis, President, World Manufacturing Foundation

Marco Taisch, Scientific Chairman, World Manufacturing Foundation

01:10 PM – 02:15 PM *Lunch*

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**WMF 2024 Part III: YOUNG MANUFACTURING
LEADERS (YML) SUMMIT**

:YML



Co-funded by the
European Union



Organized by Young Manufacturing Leaders Network

Moderator: Nicoletta Boldrini, Journalist, Tech4Future

02:30 PM – 02:40 PM Welcome

Marco Taisch, Scientific Chairman, World Manufacturing Foundation

Diego Andreis, President, World Manufacturing Foundation

02:40 PM – 02:45 PM SPECIAL ADDRESS:

Greta Braun, Doctoral Researcher, Chalmers University of Technology /Expert Industry 5.0 Community of Practice, European Commission

02:45 PM – 02:50 PM SPECIAL ADDRESS – *Video by the European Commission: “Industry 5.0 – European perspective”*

Liviu Stirbat, Head of Industry 5.0 and AI in Science Unit, DG RTD. European Commission

02:50 PM – 03:05 PM KEYNOTE: *“Industry 5.0 – Towards a Sustainable, Human-Centric, and Resilient Manufacturing Sector”*

Sonia Mota Prego, Head of SC Projects Development, EssilorLuxottica

03:05 PM – 03:45 PM YML PANEL I: “Inseparable Binomial: Digital Technology and Circular Economy for Sustainable Manufacturing”

Seda Tosun, CEO, IMMERSIA

Charlie Ohlen, CEO, Mentalycis

Clarissa Gonzalez, Postdoctoral Researcher, Chalmers University of Technology

Vasiliki Panagiotopoulou, Research Project Manager at the Laboratory for Manufacturing Systems and Automation, University of Patras

03:45 PM – 03:55 PM Award Ceremony of the YML Contest for the 2024 WMF Report

David Romero, Scientific Vice-Chairman, World Manufacturing Foundation

Antonella D’Urso, Event and Project Officer, World Manufacturing Foundation

03:55 PM – 04:35 PM YML PANEL II: “Perfect Binomial: Skills Development & Technology Leverage for Human-Centred Manufacturing”

Daniele Ramirez, Founder & COO, AGADE

Roberto Rossi, General Manager, Smart Robots

Matteo Valoriani, CEO, FifthIngeniumm

Anastassiya Zabudkina, PhD Candidate & Junior Researcher, LENTIC

04:35 PM – 05:25 PM *EIT Manufacturing Master School*

Welcome Ceremony

Keynote: “Connecting the dots: Future Skills, Manufacturers needs and Entrepreneurialism”, **Audrey Stolze**, Director of Education & Training, EIT Manufacturing

Group Picture: EIT Manufacturing Master School Welcome Ceremony

Fireside Chat: “*The Academic Formation of Future Manufacturing Leaders*”. With **Derin Gurman**, Graduate Student, EIT

Manufacturing, **Donatella Corti**, Associate Professor, University of Applied Sciences and Arts of Southern Switzerland – SUPSI,

Ebuka Nwaforonso, Masters Student, EIT

Manufacturing Moderated by **Audrey Stolze**

05:25 PM – 05:45 PM *YML Award Ceremony of the YML European Innovation Contest – “Our Future: Youth in Action for Industry 5.0”*

Moderator: **Lucie Hlavůňková**, PhD Student, Czech University of Prague

Moderator: **Valeria Tirelli**, CEO, AIDRO, Women in 3D Printing

Moderator: **Ilaria Ardizzoia**, Co-owner, 3ntr Additive

Manufacturing System, Ambassador, Women in 3D Printing

05:45 PM – 05:55 PM *Closing Remarks*

Sona Arevshatyan, EU Project Manager, MADE Competence Center

Shahrzad Sajjadivand, Ph.D. student, University College Dublin

15 October
Gaia Panina Hall,
MIND Milano Innovation District – Milan

WMF 2024 Side Event:
EIT MANUFACTURING MASTER SCHOOL
WELCOME CEREMONY 2024



Organized by EIT Manufacturing Master School

Participation is subject to further confirmation by the organiser. Participants will receive a second confirmation from the email address info@register-wmf.org with the subject: **Confirmation of participation in the EIT Manufacturing Master School Welcome Ceremony 2024.**

[Discover the Programme](#)