

The logo for the Global Manufacturing & Industrialisation Summit (GMIS) features the letters 'GMIS' in a bold, green, sans-serif font.

Global Manufacturing &  
Industrialisation Summit

# Programme Agenda

## Global Agenda on the Future of Manufacturing

Paris-Sorbonne University  
Al Reem Island  
Abu Dhabi, United Arab Emirates  
27 - 30 March 2017

\*Agenda will be updated as the programme continues to develop

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*Taking a Transformational Approach*

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## GLOBAL PROGRAMME ON THE FUTURE OF MANUFACTURING

Paris-Sorbonne University  
Abu Dhabi, United Arab Emirates  
g-mis.com  
27-30 March 2017

### INTRODUCTION

The Global Manufacturing and Industrialisation Summit (GMIS) 2017 will gather governments, the private sector and civil society to explore the future of manufacturing, and share information on global trends and insights that will shape the sector. How can manufacturing help to address social and economic challenges? How can developed and emerging economies with strong or growing manufacturing sectors achieve inclusive and sustainable growth? GMIS 2017 will identify practical steps for progress, setting out a roadmap for development.

The conference will focus on the role of manufacturing in reconstructing the global economy and restoring global prosperity. Leaders from the public and private sectors, along with civil society representatives, will gather together to discuss global challenges facing the manufacturing sector.

The discussions will focus around six themes: technology and innovation; global value chains; skills, employment and education; sustainability and environment; infrastructure; standards and stakeholder alignment.

The participants will form working groups to identify concrete action plans and recommendations that outline potential solutions to global issues, as well as showcase best practices and case studies from across the world. To highlight an example of global issues, the inaugural conference will focus on the issue of economic migration with the aim of establishing a manufacturing platform that will bring together countries facing emigration or immigration challenges, with regional countries that seek to support economic reconstruction. These countries will work together with manufacturers and the wider United Nations network on restoring global prosperity.



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## GMIS EVENING OPENING CEREMONY - 27 March 2017

### SUMMIT DAY ONE - 28 March 2017

#### Morning Plenaries – Policy

09:00 Registration

10:00 Chair's opening remarks and opening keynote addresses  
**Simon Baptist, Global Chief Economist, EIU, The Economist Group**

10:05 **Welcome Address**  
Department of Economic Development Abu Dhabi

10:15 **Head-to-Head Keynote Interview: Today versus Tomorrow - Sustainable strategies today to secure a prosperous tomorrow**  
**Moderator: Simon Baptist, Global Chief Economist, EIU, The Economist**  
**H.E. Eng. Suhail Mohamed Faraj Al Mazrouei, UAE Minister of Energy**  
**H.E. Dr. Thani bin Ahmed Al Zeyoudi, UAE Minister of Climate Change and Environment**

10:35 **Keynote Address: Faster, Weirder, Better: The future of work in the emergent era**  
**Beth Comstock, Vice Chair, GE**

10:55 **Keynote Interview: Navigating the emerging industrial renaissance**  
In a period of lacklustre economic growth, governments around the world are grasping at policy tools available to move the needle. Measures undertaken are diverse, ranging from investment in infrastructure to setting negative interest rates. Is investing in value added manufacturing a viable strategy for economic development, particularly inclusive and sustainable industrialization and GDP growth?  
**Moderator: Paul Markillie, Innovation Editor, The Economist**  
**David Shark, Deputy Director-General, World Trade Organization (WTO)**

11:15 **Keynote Address: Digitalization - driving innovation, transforming society**  
This inspirational address from one of the world's foremost leaders in innovative technologies will highlight the role of digitalization not only in fundamentally reshaping the industrial landscape, but also in powering positive and transformational social, economic and environmental change.  
**Jan Mrosik, CEO Digital Factory Division, Siemens**

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## SUMMIT DAY ONE - 28 March 2017

11:35

**Keynote Address: Rethink manufacturing! We're in the experience economy**  
**Bernard Charlès, Vice Chairman, Chief Executive Officer, Dassault Systemes**

11:55

**Keynote Address**  
**Yosuke Takagi, State Minister of Economy, Trade and Industry, Japan**

12:05

**Keynote Address: New Industry Revolution: Enabling economic transformation and development**  
**Zhang Feng, Chief Engineer, Ministry of Industry and Information Technology of the People's Republic of China (MIIT)**

12:10

**Keynote Panel: Harnessing the power of disruption—strategic policymaking for the new industrial revolution**

Global trade patterns, employment trends and political dynamics have undergone a seismic shift in recent decades, and the advent of a technological revolution has massive implications not just on the future of manufacturing, but on national economic structures worldwide.

How will disruptive technologies change global trade patterns? What should policymakers do to prepare? What role will economic and industrial policy play? What can governments do to prepare tomorrow's workforce for a higher skilled, technological future?

**Moderator: Simon Baptist, Global Chief Economist, EIU, The Economist**

**Panellists:**

**Elżbieta Bieńkowska, Commissioner for the Internal Market, Industry, Entrepreneurship and SMEs, European Commission**

**H.E. Ildefonso Guajardo Villarreal, Secretary of Economy, Secretariat of Economy, Mexico**

**Jerzy Kwieciński, Secretary of State, Ministry of Economic Development, Republic of Poland**

**Dr. Peter Ramsauer, Member of the German Bundestag, Chairman of the Committee on Economic Affairs and Energy, Germany (Former Federal Minister)**

**Sustainable Development Goals:**



13:00

**Lunch and networking**

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## SUMMIT DAY ONE - 28 March 2017

14:00

### Afternoon breakout sessions (concurrent)

**Auditorium:** Country and Regional Spotlight Sessions

**Breakout Room A:** Industry Sector Spotlight Sessions

14:00

### Auditorium: Focus on the United States of America

Manufacturers contribute over 2.17\$ trillion to the United States economy and employ %9 of the total workforce, according to the National Association of Manufacturers. Manufacturing is a major driver both of exports and inbound foreign direct investment (FDI), and the 2016 Global Manufacturing Competitiveness Index forecasts that the United States will overtake China in manufacturing competitiveness by 2020. Yet costs are high, compared with global competitors. Manufacturing employment has long been on a downward trend, with technology fundamentally changing the nature of the industry.

What can the United States government do to encourage growth in the manufacturing sector? How can American manufacturers focus their resources more effectively to remain innovative and globally competitive? How can the United States educate and train workers to keep up with increasing technological sophistication?

**Moderator:** Paul Markillie, Innovation Editor, The Economist

#### Panellists:

**Dr. Susan Helper, Frank Tracy Carlton Professor of Economics, Weatherhead School of Management, Case Western Reserve University; Former Chief Economist, U.S. Department of Commerce; Former Member of the White House Staff**  
**Danny E. Sebright, President, US-UAE Business Council**

#### Sustainable Development Goals:



14:00

### Breakout Room A: Focus on the Food and Beverage Industry

Global food retail sales amount to 4\$ trillion annually, according to the United States Department of Agriculture, giving food retailers significant upstream influence on supply chains. Food manufacturers must continually innovate to remain competitive. Perhaps an even greater challenge is the food industry's significance in developing countries, where farming and agriculture remain key sources of employment and income, and food security remains a significant concern.

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What can be done to strengthen international trade, curb price volatility and encourage greater investment into the agricultural sector, particularly in developing countries? Is there a way to balance policies that promote social wellbeing and positive environmental stewardship, without compromising on competitiveness and hurting trade? Which future technology, process and employment innovations will the industry face in the coming years?

**Moderator: Simon Baptist, Global Chief Economist, EIU, The Economist**

**Panellists:**

**Brett Rierison, Head – Global Post-Harvest Knowledge & Operations Centre (KNOC), World Food Programme**

**Joachim Yebouet, Chief Executive Officer, East African Tiger Brands Industries**

**Reid Paquin, Industry Solutions Director – F&B CPG, GE Digital**

**Günter Hemrich, Deputy Director a.i., Nutrition and Food Systems Division, Food and Agriculture Organization of the United Nations**

**Navas Meeran, Past Chairman, CII Southern Region; Chairman, Eastern Condiments**

**Sustainable Development Goals:**



15:00

### Auditorium: Focus on Asia Pacific Panel Discussion

In 1990, China produced less than %3 of global manufacturing output by value; its share is now almost a quarter. A recent report by the United Nations Industrial Development Organisation estimated that manufacturing value added in Asia and the Pacific grew by 315\$ billion between 1990 and 2014. Cheap labour and low structural costs may have triggered the region's ascent, but investment in infrastructure and growing domestic demand will strengthen Asian supply chains further still.

How would a prolonged period of slower growth in the Chinese economy affect global manufacturing? How will countries such as Japan, the Republic of Korea, Vietnam and Indonesia influence the future of global supply chain patterns? How can Asia's manufacturing industry adjust to demands for more sustainable and inclusive industrialisation?



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**Moderator:** David Wijeratne, Managing Director - Growth Markets Centre Lead, PricewaterhouseCoopers

**Panellists:**

Anders Karlborg, Assistant Chief Executive Officer, ZTE Corporation

Professor Daniel M. Cheng, Chairman, Federation of Hong Kong Industries

Arthur Tan, Chief Executive Officer, Integrated Micro-Electronics; President and Chief Executive Officer, Ayala Industrial Technology Holdings

Yan Yunfu, Executive Director and Chief Engineer, Shanghai Zhenhua Heavy Industries Co.

Lu Pengqi, Vice Chairman, China Council for the Promotion of International Trade (CCPIT)

**Sustainable Development Goals:**



15:00

### Breakout Room A: Focus on the Automotive Industry

The automotive industry turns over 2\$ trillion annually, employing more than 9 million people. In some countries, such as Japan, this figure is much higher, contributing as much as %9-8 of the total workforce. However, although the industry has enjoyed a period of relatively strong growth, uneven global markets, shifting consumer demand and increasing regulatory requirements are driving uncertainty.

What challenges do automotive manufacturers face, and what are the most innovative among them doing to address these? What technological trends will drive growth? How can the automotive industry evolve to become a leader in environmental stewardship? How will market changes affect supply chains?

**Moderator:** Paul Markillie, Innovation Editor, The Economist

**Panellists:**

Paolo Scudieri, CEO, Adler Group

Yury Vasilyev, CEO, Russian Technological Society

K. K. M. Kutty, Co-Chairman, CII Gulf Committee; Chairman, South West Group

**Sustainable Development Goals:**





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## SUMMIT DAY ONE - 28 March 2017

16:00

### Auditorium: Focus on Europe

At the end of the last century, Europe was the biggest manufacturing region in the world. However, Asia's rising dominance and an ongoing financial crisis have driven a sustained decline. Relatively expensive labour costs and strict climate change policies undermine European competitiveness, and the impact of Brexit is still unknown. Yet Europe's manufacturing sector has a lot going for it: innovative R&D, an appetite for technological advancement and a highly skilled workforce.

How can Europe drive environmental sustainability without compromising on competitiveness? How can it balance industrial policy with innovation? And what will Britain's withdrawal from the European Union mean for the manufacturing industry?

**Moderator: Axel Threlfall, Editor-at-Large, Reuters**

**Benjamin Gallezot, Deputy Director General, Directorate General for Enterprise (DGE), Ministry of the Economy, Industry and Digital Affairs, France**

**Roland Sommer, Director General, Association Industry 4.0 Austria**

**Stefano Firpo, Director-General for Industrial Policy, Competitiveness and SME's, Ministry of Economic Development, Italy**

**Gleb Nikitin, First Deputy Minister of Industry and Trade, Russian Federation**

### Sustainable Development Goals:



16:00

### Breakout Room A: Focus on the Healthcare Industry

Improved standards in healthcare and advancements in healthcare technology have revolutionized the healthcare industry and related sectors such as pharmaceuticals. How can healthcare and pharmaceutical companies remain competitive throughout the next wave of industrialisation? How will supply chains evolve? How is technology and big data changing the face of healthcare? How can regulators develop an effective process that promotes a competitive, affordable healthcare and drug market for consumers? What are the opportunities presented by technological advancements and precision medicine?

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**Moderator:** Simon Baptist, Global Chief Economist, EIU, The Economist  
**Panellists:**

H.E. Dr. Amin Hussain Al Amiri, Assistant Undersecretary for Public Health Policy and License Sector, UAE Ministry of Health and Prevention

Dr. Shamsheer Vayalil, Founder and Managing Director, VPS Healthcare

Arun Panchariya, Executive Director, Ajooni Biotech

**Sustainable Development Goals:**



17:00

**Summit Day 1 Closing Keynote Address:**

**Hyperloop and manufacturing – this changes everything**

With the emergence of the Hyperloop as the first new mode of transportation since the airplane in 1903, the world of manufacturing will never be the same. In the next five years goods will be able to be manufactured on demand and transported over huge distances to be delivered the same day eliminating the need for trucks, warehouses and third party delivery companies. In this keynote address, Nick Earle, SVP of Global Operations at Hyperloop One, will look at the coming disruption enabled by this “once in a 100 years’ opportunity.”

**Nick Earle, Senior Vice President, Global Operations, Hyperloop One**

17:30

**Chair’s closing remarks and end of day one**

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## SUMMIT DAY TWO - 29 March 2017

### Morning Plenaries - Technology and Human Capital

10:00

**Chair's opening remarks**

**Simon Baptist, Global Chief Economist, EIU, The Economist Group**

10:05

**Day 2 Welcome Address**

10:15

**Keynote Interview – Transportation of the future**

**Moderator: John Deferios, Emerging Markets Editor, CNN**

**H.E. Mattar Mohamed Al Tayer, Director General and Chairman of the Board, Dubai Roads and Transport Authority (RTA)**

**Mudassir Sheikh, CEO and Co-Founder, Careem**

10:35

**Opening CEO Keynote Address: Shifting economies and the trends of tomorrow**

Established manufacturing powerhouses are under increasing pressure to redefine their competitive advantage, in a world transformed by globalisation. The speed of progress now varies between economies, and there is a growing digital and industrial disparity.

In this ever-shifting landscape, where do the opportunities lie? How is technology breaking down borders and creating greater global power parity? How are governments seeking not only to boost trade, employment and economic growth, but also to achieve inclusive and sustainable development?

**Robert E. Moritz, Global Chairman, PricewaterhouseCoopers**

**Sustainable Development Goals:**



10:55

**Keynote Address: The transformative implications of dark data for manufacturing and society**

With the advent of the Internet of Things, Big Data, Analytics, and Cognitive Systems, all manner of complex physical and social endeavors can be rigorously optimized when these capabilities are invoked. The manufacturing sector, critical to the creation of hard assets upon which we all rely, is particularly impacted by these emergent capabilities. Key to achieving the maximum benefit from the coming digital transformation of manufacturing is the recognition that the manufacturing sector is at the core of an entire ecosystem spanning from the supply chain to product end of life. Turning currently held "dark data" into knowledge that then enables the end-to-end optimization of this ecosystem will be discussed, with numerous examples of outcomes from such endeavours

**Dr. Bernard Meyerson, Chief Innovation Officer, IBM**

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## SUMMIT DAY TWO - 29 March 2017

11:15

### Keynote Panel Discussion: On the edge of technological convergence

The digitisation of manufacturing means that once discrete areas of industrial activity are now converging. In the future, technologies, processes and skills will have a much wider range of applications, and will span diverse sectors and geographies.

How will shifting global manufacturing trends and geographies affect production processes? Which technologies e.g. augmented reality, 3D printing, integrated MES, etc. do you believe will have a breakthrough in adoption on the manufacturing shop floor in the coming years? Which technologies provide the maximum economic benefits? How can industry and policymakers work together to prepare for technological convergence and the next wave of industrialisation? How can increased technological convergence be an engine for change, and for economic growth?

**Moderator:** Reinhard Geissbauer, Partner and Industry Lead, Industry 4.0, strategy

**Panellists:**

Gilles Babinet, Entrepreneur, Digital Champion of France and Adviser, European Commission

Mohammad Ehteshami, Vice President and General Manager, Additive Integration, GE Additive

Dr. Chunyuan Gu, Senior Vice President, ABB Group; Chairman and President, ABB (China)

Assem Khalaili, Executive Vice President, Industry Customer Services MEA, Siemens Middle East

### Sustainable Development Goals:



12:00

### Keynote Interview: Finding transformational ideas in the age of disruption

An inspirational look at how disruptive thinking has the power to spark transformational change in businesses, industries and economies and how leaders can create a culture that fosters innovation.

**Moderator:** John Deferios, Emerging Markets Editor, CNN

Pat Shanahan, SVP, Supply Chain & Operations, The Boeing Company

### Sustainable Development Goals:



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## SUMMIT DAY TWO - 29 March 2017

12:20

### The Great Debate: Skills 4.0

The role of manufacturing workers is in flux. As manufacturers utilise 'smart' technologies and 'big data' to streamline operations, some roles have been made obsolete, paving the way for new jobs in data analytics. The quick-fix has been to 'up skill' existing employees. Yet the radically changing nature of manufacturing is also transforming the way in which education programmes are structured, particularly in engineering, manufacturing and design.

Will technology replace tomorrow's workers? Or does it present an opportunity to shift towards new roles, industries and employment models?

**Moderator: Axel Threlfall, Editor-at-Large, Reuters**

**Dr. Carl Benedikt Frey, Co-Director and Oxford Martin Citi Fellow, Oxford Martin Programme on Technology and Employment, University of Oxford**

**David Hoey, Chief Executive Officer, WorldSkills International**

**John Fleming, Former Executive Vice President, Global Manufacturing and Labor Affairs, Ford Motor Company**

**Dr. Tod A. Laursen, President, Khalifa University**

### Sustainable Development Goals:



13:00

Lunch and networking

14:00

### Afternoon breakout sessions

**Auditorium:** Country and Regional Spotlight Sessions

**Breakout Room A:** Industry Sector Spotlight Sessions

14:00

### Auditorium: Focus on Africa

Is Africa the sleeping giant of manufacturing? The continent's industrial sector was hit hard by the Asian manufacturing boom in the 90s, leaving domestic production, particularly in the garments sector, unable to compete with cheap imports. However, the IMF forecasts that the region will be the second fastest in terms of growth globally in 20-2016. Despite this, Africa faces significant macroeconomic, political and social stability challenges, and infrastructure is lagging.

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## SUMMIT DAY TWO - 29 March 2017

How can African economies scale up their infrastructure investments in a sustainable manner to drive growth in the manufacturing sector? What measures can policymakers implement to curb corruption and red tape issues, which have traditionally plagued many African markets, in order to attract much-needed FDI and international businesses to the continent? How can Africa position itself and be ready to capitalise on opportunities presented by rapid technological change in manufacturing?

**Moderator: Simon Baptist, Global Chief Economist, EIU, The Economist**

**Panellists:**

**Dr. Carlos Lopes, Professor of Economics; University of Cape Town; Visiting Fellow, Oxford Martin School, University of Oxford; Former Executive Secretary, United Nations Economic Commission for Africa (UNECA)**

**H.E. Margaret Mwanakatwe, Minister of Commerce, Trade and Industry, Zambia**

**Kalilou Traore, Commissioner of Industry and Private Sector Promotion, Economic Community of West African States (ECOWAS)**

14:00

### Breakout Room A: Focus on the Aerospace Industry

With increasing passenger travel demand, low oil prices, new technologies and security issues driving aircraft production, the global aerospace and defence (A&D) industry is growing solidly. The United States has historically dominated the A&D manufacturing industry, however significant new players are emerging that will challenge traditional business patterns.

How are global aerospace supply chains evolving? Where are new market entrants emerging? When will the next upturn take place, and what will the order book landscape look like? What will the impact of low oil prices be on the next order upturn, and what will that look like?

**Moderator: Axel Threlfall, Editor-at-Large, Reuters**

**Jan Pie, Secretary General, AeroSpace and Defence Industries Association of Europe (ASD); Chairman-Elect, International Coordinating Council of Aerospace Industries Associations (ICCAIA)**

**Michel Peters, CEO, NLR (Netherlands Aerospace Centre)**

**Robert S. Harward, Vice Admiral, USN (Ret) SEAL and Chief Executive - UAE, Lockheed Martin International**

**Tetsuro Hisano, Vice President & General Manager of Commercial Airplane Programs Management Office, Mitsubishi Heavy Industries**

### Sustainable Development Goals:





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## SUMMIT DAY TWO - 29 March 2017

15:00

### Auditorium: Focus on South Asia

Narendra Modi's Make in India programme has put the region's manufacturing sector on the map. With low cost bases around the Indian sub-continent leading to an increase in production, manufacturing has had a transformative effect. The region is also investing substantially into infrastructure to support industrial and economic growth. However, despite the significant efforts by policymakers to create attractive conditions for FDI, manufacturing in the region has been beset by claims of social injustices.

How can policymakers collaborate with the industry to ensure that international standards are met, while developing a sustainable, diversified industrial strategy? How can infrastructure investment support industrial growth? And how can manufacturing ensure international best practice in social and environmental practices?

**Moderator: Simon Baptist, Global Chief Economist, EIU, The Economist**

#### Panelists:

**Mike Singh, Chairman and Chief Executive Officer, TC Group**

**H.E. Ghulam Murtaza Khan Jatoti, Minister of Industries and Production, Ministry of Industries and Production, Government of Pakistan**

**Dr. Sideek Ahmed, Chairman, Eram Group**

### Sustainable Development Goals:



15:00

### Breakout Room A: Focus on the Textiles and Garments Industry

Emerging economies dominate in the textile manufacturing industry, fuelled by lower structural costs; China leads the global market for textile production, accounting for over %54 of total production, and India comes in second, with %23. However, changes are afoot, with greater technological advancements transforming the structure of the industry. Pressures to improve working conditions, employee rights and environmental policy continue to plague developing countries and, increasingly, responsible consumerism is affecting supply chains.



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## SUMMIT DAY TWO - 29 March 2017

How can emerging economies develop more sophisticated and effective social and environmental policies without compromising global competitiveness? And how can developed economies take advantage of shifting global dynamics to improve market share in future?

**Moderator:** Paul Markillie, Innovation Editor, The Economist

**Panellists:**

Georg Dieners, Chief Executive Officer, OEKO-TEX

Le Tien Truong, CEO, Vietnam National Textile and Garment Group

Iwan Setiawan Lukminto, President Director, PT. Sri Rejeki Isman, TBK

H.E. Mr. Amir Hossain Amu, Minister for Industries, Government of the People's Republic of Bangladesh

**Sustainable Development Goals:**



16:00

**Auditorium: Focus on Latin America**

Manufacturing in Latin America has witnessed a decline in recent years, prompted by recession in the automobile industry. Mexico, Brazil and Argentina—Latin America's three largest economies—still dominate the industrial landscape, but political instability, rising inflation, volatility in commodities prices and continued recession paint a challenging future for the region's manufacturing sector.

What measures can policymakers take to drive industrial growth? How can governments impose more stringent environmental policies without stifling industrial development? How can businesses go above and beyond legislative requirements to support sustainable, inclusive, responsible practices in the new era of industrialisation?

**Moderator:** Simon Baptist, Global Chief Economist, EIU, The Economist

**Panellists:**

Humberto López, Country Director, Latin America and the Caribbean, World Bank

Professor João Carlos Ferraz, Professor, Institute of Economics, Federal University of Rio de Janeiro

Merlin Alejandrina Barrera López, Vice Minister of Trade and Industry, Ministry of Economy El Salvador

Sebastián Rovira, Economic Affairs Officer, Industrial and Technological Unit, Production, Productivity and Management Unit, Economic Commission for Latin America and the Caribbean (ECLAC)

**Sustainable Development Goals:**



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## SUMMIT DAY TWO - 29 March 2017

16:00

### Breakout Room A: Focus on the Electronics Industry

Electronics is one of the fastest evolving manufacturing industries, and also one of the most competitive; the race to be the first to market with new technologies is fierce, but these can often become obsolete before R&D is even complete. The saturation of electronics manufacturing in Asian markets over the past two decades has resulted in higher cost bases, which means that traditional industrial markets such as the United States are seeing resurgence in this sector.

How will rising costs in Asia disturb global supply chains? What new trends and subsectors will drive future growth? How will intellectual property regulations affect the sector?

**Moderator: Paul Markillie, Innovation Editor, The Economist**

#### Panellists:

**Chen Rengui, Senior Vice President, BOE Technology**

**Matthew Putman, CEO, Nanotronics**

**Sharan Burrow, General Secretary, International Trade Union Confederation (ITUC)**

#### Sustainable Development Goals:



17:00

End of summit day two

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## SUMMIT DAY THREE – 30 March 2017 Systems, Structures and Environment

10:00

**Chair's opening remarks**

**Simon Baptist, Global Chief Economist, EIU, The Economist Group**

10:10

**Day 3 Welcome Address**

10:20

**In Conversation with H.E. Saif Al Hajeri, Chief Executive Officer Tawazun Economic Council & Tawazun Holding**

**A focus on human capital, innovation, diversification and global safety and security**

This session will provide a rare opportunity to hear from one of the UAE's driving forces behind industrial growth and economic diversification efforts. A unique look at the contributions the defense industry is making as a developer of human capital capabilities, a key contributor to Abu Dhabi's industrial strategy, and an enabler and creator of innovation in high tech industries as well as supporting the sustainability of industrial and civil activities through the provision of global safety and security services.

What are the industry's contributions to human capital development? What is Tawazun doing to invest in human capital? How does the defense industry support R&D as a basic fundamental of any knowledge based economy and how are these efforts being played out in the UAE and in particular in support of the Abu Dhabi Industrial Strategy and wider economic diversification efforts? How does the defence industry enable innovation, particularly through supporting and enabling other complementary industries such as aerospace, automotive and technology?

**Moderator: Simon Baptist, Global Chief Economist, EIU, The Economist**

**H.E. Saif Al Hajeri, Chief Executive Officer Tawazun Economic Council & Tawazun Holding**

10:45

**Fireside Chat: Emerging global supply chains**

Modern manufacturing demands modern supply chains. Substantial growth in emerging markets has transformed how business operates, requiring manufacturers to think beyond production planning alone when developing their value chains.

How are changes in raw material and labour costs interrupting existing business models and creating new networks? When will the realities of additive manufacturing adoption reach a tipping point, and what impact will it really have for businesses and consumers? How will small and medium-sized enterprises (SMEs) change the dynamics of global supply chains? How will emerging consumer demands influence the global value chains of tomorrow?

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## SUMMIT DAY THREE – 30 March 2017

**Moderator:** Simon Baptist, Global Chief Economist, EIU, The Economist  
Kathryn E. Wengel, Worldwide Vice President and Chief Supply Chain Officer, Management Committee Member, Johnson & Johnson

### Sustainable Development Goals:



11:10

### Panel Discussion: The infrastructure of the future

How can industry work with government to ensure that the right investments are made to safeguard industrial and economic growth? How can new developments in clean technologies support new manufacturing sectors, providing sustainable, efficient and cost-effective energy infrastructure? What shifts are needed in urban and transport infrastructure to support industrial and economic growth? How are governments developing policies to ensure sustainable infrastructure development not only to drive social and economic growth, but also to minimise the environmental impact?

**Moderator:** Simon Baptist, Global Chief Economist, EIU, The Economist

### Panellists:

H.E. Falah Mohammed Al Ahabbi, Chairman, ZonesCorp

Hans-Peter Egler, Chief Executive Officer, Global Infrastructure Basel

H.E. Dr. Elham M.A. Ibrahim, Vice-chair, World Energy Council

Wang Jun, Vice President, CRRC

### Sustainable Development Goals:



12:00

Lunch and networking

13:00

### Head to Head Keynote Interview: The next 50 years

**Moderator:** Simon Baptist, Group Chief Executive, EIU, The Economist

H.E. Mohammad Abdulla Al Gergawi, Minister of Cabinet Affairs and the Future, UAE Ministry of Cabinet Affairs

H.E. Khaldoon Khalifa Al Mubarak, Group Chief Executive Officer and Managing Director, Mubadala

## SUMMIT PROGRAMME

Co-host



Co-chair & Co-host



Co-chair



## SUMMIT DAY THREE – 30 March 2017

13:30

### Panel Discussion: Financing in the new age of technological convergence

If innovative manufacturers are to be successful, they must be able to access affordable finance. Cheap credit offers the opportunity to invest today for future growth, but sustained low commodity prices are transforming the sources and destinations of investment, creating both uncertainty and opportunities.

How can the sector engage more productively with lenders? What and where are the new areas for potential investment? How can the principles of sustainability, social responsibility, accountability and transparency be further integrated into financing?

**Moderator: Mustafa Alrawi, Business Editor, The National**

#### Panellists:

**Baihas Baghdadi, Managing Director and Global Head of Trade and Working Capital, Barclays**

**Roberto Mancone, Managing Director and Global Head of Disruptive Technologies and Solutions, Deutsche Bank**

**William Shor, Managing Director, Caspian VC Partners**

**Srinivasan Sriram, Founder & CEO, Skuchain**

#### Sustainable Development Goals:



14:15

### Closing Keynote Panel Discussion:

#### Driving change - A new roadmap for sustainable industrialisation

Industry's interaction with the environment is shifting dramatically. Effective energy policies and access to affordable clean energy are top priorities for global manufacturing, and better technology should mean greater efficiency. Yet legal frameworks vary dramatically across the globe. Tied into this is the lack of a global set of manufacturing standards, which could help set the course for global sustainable benchmarks, but in reality can be difficult to achieve given varying degrees of national industrial and economic development, resources, climate and technological capabilities.

How can the manufacturing sector develop sustainably? How can governments and industry work towards environmental targets while maintaining global competitiveness? How is the private sector working to mitigate environmental impact? How would the global adoption of manufacturing standards support or hinder these efforts? How can global markets collaborate to develop and improve standards, and formulate a cohesive, measurable and effective system in the high-tech future of manufacturing and sustainable, inclusive industrialisation? And finally, what would a global regime of standards look like, and how would it work?

## SUMMIT PROGRAMME

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## SUMMIT DAY THREE – 30 March 2017

**Moderator:** Simon Baptist, Global Chief Economist, EIU, The Economist

**Panellists:**

Karmenu Vella, Commissioner for Environment, Maritime Affairs and Fisheries, European Commission (via video recording)

H.E. Abdulla Al Maeni, Director General, Emirates Standardization and Metrology Authority (ESMA)

Jean Bennington Sweeney, Chief Sustainability Officer, 3M

Kevin McKinley, Acting Secretary General, International Standards Organization (ISO)

Alistair Nolan, Senior Policy Analyst, OECD Directorate for Science, Technology and Innovation

**Sustainable Development Goals:**



15:15

### Official GMIS Closing Remarks

As the inaugural Global Manufacturing and Industrialisation Summit draws to a close, this session will reflect on the key take-aways and outcomes from three days of discussion and debate.

**Simon Baptist, Global Chief Economist, EIU, The Economist Group**

**Sustainable Development Goals:**





# Global Manufacturing & Industrialisation Summit

*Taking a Transformational Approach*

## SUMMIT PROGRAMME

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وزارة التنمية الاقتصادية  
DEPARTMENT OF ECONOMIC DEVELOPMENT

Co-chair & Co-host



وزارة الاقتصاد  
MINISTRY OF ECONOMY

Co-chair



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION

## SUMMIT DAY THREE – 30 March 2017

15:30

Close of GMIS 2017



Disclaimer: Sessions, timings and speakers are subject to change.

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Events