

PROGRAMME



21st Cambridge International Manufacturing Symposium | 28-29 September 2017

GLOBALISATION 2.0

Rethinking supply chains in the new technological and political landscape



UNIVERSITY OF
CAMBRIDGE

Department of Engineering

IfM | Centre for
International Manufacturing

AGENDA | THURSDAY 28 SEPTEMBER

09.00	Registration and refreshments
09.30	Welcome and introduction Dr Jagjit Singh Srai, Head, Centre for International Manufacturing, IfM, University of Cambridge
09.45	Advanced manufacturing engineering as a competitive differentiator – past, present and future Jacob Dirks, Group Vice President, Advanced Manufacturing Engineering, Grundfos
10.30	Refreshments
11.00	Technological exploitation to business exploration; leveraging disruptors, from technical to customer to political to deliver new business models and supply chain models Jonathan Blamey, VP Global Solutions Design, LSHC, DHL
11.45	Rejuvenating textile manufacturing in developed economies: a case study from the Alliance Project Lorna Fitzsimons, Director, The Alliance Project and Textile Growth Programme, New Economy
12.30	Lunch and networking
13.45	Sharing what works across worldwide operations through standardizing global operating systems Pietro D'Arpa, Director, Supply Chain Europe: Logistics and End-to-End Strategic Planning, Procter & Gamble
14.30	The impact of digital technologies on future pharmaceutical supply chains Patrick Hyett, Director, IIM Digitisation Lab, GlaxoSmithKline
15.15	Refreshments
15.45	The future of production - impacts of new production technologies and changing socio-political landscapes Helena Leurent, Head of Government Engagement, Member of the Executive Committee, World Economic Forum
16.30	GLOBALISATION 2.0 - Discussion and panel session Facilitators: Jagjit Singh Srai and Paul Christodoulou
17.15	Wrap up and close of session
19.00	Symposium Dinner at Magdalen College

AGENDA | FRIDAY 29 SEPTEMBER

08.30	Registration and refreshments
09.00	Globalisation in the changing technological and political landscape Nitin Joglekar, Dean's Research Fellow / Professor Operations and Technology Management, Boston University Questro School of Business
	Global production networks: where next Ann Vereecke, Faculty Dean / Professor, Operations and Supply Chain Management, Vlerick Business School
	Global perspectives on investment in the digital economy James Zhan, Senior Director, Investment and Enterprise Development; and Lead UN World Investment Report, United Nations Conference for Trade and Development
11.15	Refreshments
11.30	RESEARCH THEMES SESSION ONE Impact of 4th Industrial Revolution technologies on supply chains Sustainability e-Commerce; debunking the myths of omnichannel last-mile logistics I
13.00	Lunch
14.00	RESEARCH THEMES SESSION TWO Globalisation 2.0 and supply chain transformation Procurement and supply management Digital supply chains I e-Commerce; debunking the myths of omnichannel last-mile logistics II
15.30	Refreshments
15.45	RESEARCH THEMES SESSION THREE International manufacturing networks Digital supply chains II Redistributed manufacturing and lean operations e-Commerce; debunking the myths of omnichannel last-mile logistics III
17.00	Close

RESEARCH THEMES | SESSION ONE: 11.30

Impact of 4th industrial revolution technologies on supply chains - World Economic Forum special session (Chairs: Wolfgang Lehmacher and Paul Beecher)

The technologies of the 4th Industrial Revolution (4IR) are changing all parts of the supply chain. The digital age has brought new opportunities, has prepared the ground for new business models, and it has raised consumer expectations with new needs and wants. Personalisation is now possible to an extent never seen before. But how far can/will this go?

Now that we are approaching the possibility of achieving full visibility and traceability across the supply chain, consumers also want to know where things come from (e.g. conflict minerals), how were they manufactured (e.g. working conditions, use of child labour, etc.), and where their orders are (e.g. speed of delivery). 4IR technologies can help to provide the answer, for example through Internet of Things, blockchain, etc., leading to augmented visibility along the chain

However, all these developments and more don't come without risk. Recent cyberattacks, e.g. Petya, have moved these concerns to the top of the CEO risk agenda. What can business, governments, etc., do about it? What are the solutions? How far advanced are they?

Sustainability

(Chair: Arsalan Ghani)

Evaluating natural resources scarcity in supply chains: Evolutionary theory perspective

Katya Yatskovskaya

Sustainability impact of Industry 4.0 enabling technologies on logistics management with a focus on freight transportation

Hajar Fatorachian and Hadi Kazemi

Interest, design and assessment of Eco-Industrial parks in China within a circular economy paradigm

Jicheng Xing, Joao Vilas-Boas da Silva and Isabel Duarte de Almeida

e-Commerce; debunking the myths of omnichannel last-mile logistics I

(Chair: Stanley Frederick WT Lim)

Myth 1 - Do consumers want instant delivery?

Patrick Gallagher, Chief Executive Officer, CitySprint Group and Santosh Sahu, Chief Executive Officer, LastMileLink Technologies

Myth 2 - Will competition inhibit last-mile delivery?

Nicholas Dunhill, Chief Executive, ParcelSpace

Myth 3 - Do technologies and automation help to reduce labour?

Alex Klim, Head of Business Development & Consulting, Clinical Trials Logistics, Life Sciences, DHL

Jonathan Blamey, Vice President Global Solutions Design, LSHC, DHL

RESEARCH THEMES | SESSION TWO: 14.00

Globalisation 2.0 and supply chain transformation
(Chair: Naoum Tsolakis)

Methodological approaches for next generation supply chains

Yasmine Sabri, Sudipa Sarker and Seyoum E. Birkie

Exploring transformation archetypes for seafood supply chain: Japanese perspective

Koichi Murata

Sales excellence by changeable sales planning process

Katharina Adaev, Carsten Kißing and Emilien Collard

Procurement and supply management

(Chair: Tomás Harrington)

Performance analysis on electric power supply chain for smart-grid with conventional large scale supplier: An application of inventory control model

Tetsuya Sato, Koichi Murata and Hiroshi Katayama

How is net working capital affected in an engineer-to-order business?

Helena Garriga and Karol Kaczmarek

A prototype construct for strategic category management in purchasing

Harri Lorentz and Jagjit Singh Srai

Digital supply chains I

(Chair: Patrick Hennelly)

The Internet of Things' potential to achieve supply chain integration: a case study

Susan Wakenshaw, Donato Masi, Rosario Micillo, Janet Godsell and Carsten Maple

International supply chain resilience: a big data perspective

Royston Meriton and Gary Graham

Digital open innovation and co-creation in service organisations: enablers and barriers

Krista Keränen and Ruusa Ligthart

e-Commerce; debunking the myths of omnichannel last-mile logistics II

(Chair: Jagjit Singh Srai)

Myth 4 - Is last-mile delivery only viable in densely populated centres?

Jagjit Singh Srai, Head of Centre for International Manufacturing (CIM) and Ettore Settanni, Research Associate at CIM

Myth 5 - Does e-commerce delivery have negative net sustainability impacts?

Dhivant Patel, Global eCommerce Supply Chain Manager, Unilever

Product returns in omnichannel retailing: The trade-off between store accessibility and information availability

Gaetano Marino, Stanley Frederick WT Lim, Richard Cuthbertson, Wojciech Piotrowicz and Giulio Zotteri

Last-mile supply network configuration in omnichannel retailing: Hypotheses and simulation framework

Gendao Li and Stanley Frederick WT Lim

RESEARCH THEMES | SESSION THREE: 15.45

International manufacturing networks
(Chair: Mukesh Kumar)

The implication of cyber risk on supply chain risk management and supply chain resilience

Bahohe Hu, Mukesh Kumar, Pichawadee Kittipanya-ngam

Impact of additive manufacturing on supply chain

Harshad Sonar, Sourabh Kulkarni, Vivek Khanzode and Milind Akarte

Supply chain design: From simulation to modelling to real-world autonomous vehicles

Naoum Tsolakis

Digital supply chains II
(Chair: Ettore Settanni)

Stimulating Supply Chain Manufacturing Growth: Can policy create supply chains from a void?

Michel Leseure, Dave Cooper and Dawn Robins

Modelling Performance Landscape in Digital Manufacturing

Sourabh Kulkarni, Priyanka Verma and Mukundan R

Consumer-centric food supply chains for healthy nutrition

Foivos Anastasiadis

Redistributed manufacturing and lean operations
(Chair: Foivos Anastasiadis)

Lean activity transfer to other industry - Cases of agriculture businesses

Hiroshi Katayama, Koichi Murata, Reakkok Hwang

How will big data and the internet of things transform distributed product-service systems in the automotive sector?

Patrick Hennelly, Gary Graham, Laird Burns, Christina Oberg

Exploring actors, coalitions and institutions influences for developing supply network capabilities
Arsalan Ghani

e-Commerce; debunking the myths of omnichannel last-mile logistics III - Discussion panel
(Chair: Stanley Frederick WT Lim)

Discussion on industry trends, challenges and exploring future research opportunities

Panel: Dhivant Patel, Alex Klim, Nicholas Dunhill, Gendao Li and Jagjit Singh Srai