PROGRAMME

COMPLEXITY OF THE ECONOMY: Research and Policy Implications

26-27 October 2015, OECD Headquarters, Paris
COMPLEXITY OF THE ECONOMY: RESEARCH AND POLICY IMPLICATIONS

MONDAY 26 OCTOBER 2015

8:00   Registration

9:00-9:15   Welcome by Angel Gurría, OECD Secretary-General and Vladimir Šucha, Director-General, Joint Research Centre, European Commission

9:15-10:15   Introduction: Why does Complexity Matter?

Gabriela Ramos, G20 Sherpa and Chief of Staff, Special Counsellor to the Secretary-General, OECD

Eric Beinhocker, Executive Director INET, Oxford Martin School, University of Oxford

Lex Hoogduin, Professor of Complexity and Uncertainty in Financial Markets and Financial Institutions, University of Groningen / GloComNet

Ralph Dum, Senior Expert, Digital Science Unit, DG CONNECT, European Commission

10:15-11:30   Session 1: Money and Finance - Theory and Policy

Chair   Adrian Blundell-Wignall, Director, Financial and Enterprises Affairs, Special Advisor to the Secretary-General for Financial Markets, OECD

Speakers   John Geanakoplos, Professor of Economics, Yale University

Christoph Aymanns, Research Officer, Systemic Risk Centre, London School of Economics (LSE)

Discussants   Christian Upper, Head of Financial Markets, Bank of International Settlements (BIS)

Philipp Hartmann, Deputy Director of General Research, European Central Bank

11.30 – 11.45   Coffee break
## Complexity of the Economy: Research and Policy Implications

### Session 2: Networks in Finance - Theory and Policy

**Chair**  
Adrian Blundell-Wignall, Director, Financial and Enterprises Affairs, Special Advisor to the Secretary-General for Financial Markets, OECD

**Speakers**  
Stefano Battiston, Professor of Finance, University of Zurich  
Diego Garlaschelli, Assistant Professor of Theoretical Physics, University of Leiden  
Iman van Lelyveld, Senior Policy Advisor, De Nederlandse Bank, VU University  
Sebastian Poledna, Research Scholar, IIASA

**Discussants**  
Harald Stieber, Economist and Financial Market Analyst, DG FISMA, European Commission  
Dirk Bezemer, Professor of Economics, University of Groningen

13.00 – 14.30  Lunch

### Session 3: Sustainability - Theory and Policy

**Chair**  
Eric Beinhocker, Executive Director INET, Oxford Martin School, University of Oxford

**Speakers**  
Jim Watson, Director of Sussex Energy Group, University of Essex  
Roland Kupers, Independent Consultant, Complexity, Resilience, Green Growth

**Discussants**  
Simon Buckle, Head of the Climate, Biodiversity and Water Division, Environment Directorate, OECD  
Chris Barrett, Executive Director, European Climate Foundation

16.00 – 16.30  Coffee break
### COMPLEXITY OF THE ECONOMY: RESEARCH AND POLICY IMPLICATIONS

**16:30-18:00** Session 4: Growth and Innovation – Theory and Policy

**Chair** Dirk Pilat, Deputy Director, Science, Technology and Innovation Directorate, OECD

**Speakers**
- Luciano Pietronero, Professor of Physics, La Sapienza
- Doyne Farmer, Professor of Mathematics, University of Oxford
- Koen Frenken, Full Professor in Innovation Studies, Utrecht University and Lund University

**Discussant** Giuseppe Nicoletti, Head of Structural Policy Analysis Division, Policy Studies Branch, Economics Department, OECD

**18.00** Cocktail hosted by the Permanent Delegation of the Kingdom of the Netherlands to the OECD [G. Marshall and R. Ockrent Rooms]

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**TUESDAY 27 OCTOBER 2015**

**9:00-11:30** Session 5: Boom Bust Boom: Movie on Financial Crises

**Chair** Lex Hoogduin, Professor of Complexity and Uncertainty in Financial Markets and Financial Institutions, University of Groningen / GloComNet

**Movie screening** Introduction to the movie Boom Bust Boom by Theo Kocken, Founder, Cardano

**Speakers**
- Catherine L. Mann, Chief Economist and Head of the Economics Department, OECD
- Te Bao, Assistant Professor of Economics, University of Groningen
- Marco Ratto, Senior Scientist, Joint Research Centre, European Commission

**11:30-13:00** Session 6: Complex Systems Methods

**Chair** Ralph Dum, Senior Expert, Digital Science Unit, DG CONNECT, European Commission

**Speakers**
- Rob Axtell, Professor of Computational Social Science, George Mason University
- Henk Krijnen, Founder, NavIncerta

**Discussant** Angela Wilkinson, Counsellor for Strategic Foresight, OECD

**13.00 – 14.00** Lunch
# Complexity of the Economy: Research and Policy Implications

## 14:00-15:00  Session 7: Economic Geography and Cities

**Chair**
Joaquim Oliveira Martins, Head of the Regional Development Policy Division, Public Governance Directorate, OECD

**Speaker**
Geoffrey West, Distinguished Professor and Past President, Santa Fe Institute

**Discussants**
Colin Harrison, Founder, Urban Systems Collaborative  
Rudiger Ahrend, Head of Urban Policy Unit, Public Governance Directorate, OECD

### 15.00 – 15.30  Coffee break

## 15:30-17:00  Session 8: Complexity-Based Data Analysis

**Chair**
Martine Durand, Director and Chief Statistician, Statistics Directorate, OECD

**Speakers**
Tobias Preis, Associate Professor of Behavioural Science and Finance, University of Warwick  
Co-Pierre Georg, Research Economist, Bundesbank and Senior Lecturer at the School of Economics, University of Cape Town

**Discussant**
Patrick Lenain, Head of Division, Country Studies Branch, Economics Department, OECD

### 17:00-18:00  Wrap-up: How can Complexity Science Contribute to Better Policies for Better Lives?

**Chair**
Noé van Hulst, Ambassador of the Permanent Delegation of the Netherlands to the OECD

**Discussants**
Lex Hoogduin, Professor of Complexity and Uncertainty in Financial Markets and Financial Institutions, University of Groningen / GloComNet  
Eric Beinhocker, Executive Director INET, Oxford Martin School, University of Oxford  
Mathilde Mesnard, Senior Advisor to the Secretary-General and Coordinator of NAEC, OECD
NEW APPROACHES TO ECONOMIC CHALLENGES