



Cambridge Centre for Risk Studies Seminar

# Emerging Risks Scenarios for Risk Management

Centre for  
**Risk Studies**



UNIVERSITY OF  
CAMBRIDGE  
Judge Business School

In Collaboration With



OXFORD  
ECONOMICS

# University of Cambridge Centre for Risk Studies



Thematic links between research projects are complex systems and shocks – ‘complex risks’

**Cambridge Risk Framework** is an approach and toolkit for researching systemic shocks

## Research Supporters



## Collaborators





# Risk Centre Scenario Project Team & Roles



**Prof. Danny Ralph**

*Academic Director, Centre for Risk Studies*  
Reviewer, business supply chain aspects



**Dr. Andrew Coburn**

*Director of External Advisory Board*  
Research lead; Pandemic & Civil Disorder spec



**Dr. Gary Bowman**

*Research Associate, Centre for Risk Studies*  
Narratives, operational impacts; Conflict spec



**Dr. Fabio Caccioli**

*Research Associate, Centre for Risk Studies*  
Financial System and Banking impacts



**Dr. Roxane Foulser-Piggott**

*Director, Cambridge Architectural Research*  
Datasets; vulnerability and GIS support



**Benjamin Leslie**

*Risk Researcher*  
Mathematical modelling and research platform



**Samantha Cook**

*Chief Scientist, Financial Network Analytics*  
Investment Portfolio Shock Assessment



**Dr. Michelle Tuveson**

*Executive Director, Centre for Risk Studies*  
Project oversight, programme coordination.



**Simon Ruffle**

*Director of Technology Research*  
Technical architecture & framework; Cyber spec



**Dr. Louise Pryor**

*Actuary and Risk Specialist, Centre for Risk Studies*  
Investment portfolio modelling



**Dr. Scott Kelly**

*Macroeconomic Researcher, Centre for Risk Studies*  
Macroeconomic modelling



**Andy Skelton**

*Risk Researcher, Centre for Risk Studies*  
Enterprise network modelling



**Dr. Duncan Needham**

*Risk Affiliate, Centre for Risk Studies*  
Fellow of Centre for Financial History



**Antoine Feylessoufi**

*Visiting Scholar, Centre for Risk Studies*  
Research into network datasets

# Subject Matter Specialists

## Geopolitical Conflict



**Richard Hartley**  
*Political scientist, Cytora*



**Josh Wallace**  
*Political scientist, Cytora*



**Dr. Ivan Ureta**  
*Professor in International Relations,  
Geneva School of Diplomacy*



**Dr. Rohan Guneratna**  
*Head of International Centre for Political  
Violence and Terrorism Research, Singapore*

## Cyber Catastrophe



**Éireann Leverett**  
*Security Researcher, IOActive*



**Dr. Rob Watson**  
*Security Research Group, University of  
Cambridge Computer Laboratory*



**Dr. Richard Clayton**  
*Security Research Group, University of  
Cambridge Computer Laboratory*



**Dr. Frank Stajano**  
*Senior Lecturer, University of Cambridge  
Computer Laboratory*

## Human Pandemic



**Dr. Maura Sullivan**  
*Senior Director of LifeRisks Model Development,  
RMS*



**Mary Chang**  
*Modeler and Medical Researcher, LifeRisks,  
RMS*

# AGENDA

- 09:45 **Emerging Risks - Threats and Opportunities**
- 10:15 Scenario 1: **A Geopolitical Conflict – ‘China-Japan Conflict’**
- 11:00 *Coffee Break*
- 11:30 Panel Discussion 1 – **Good Practice for Risk Management**
- 12:30 *Lunch*
- 13:15 *Group photograph – ground floor lobby*
- 13:30 Scenario 2: **A Cyber Catastrophe - 'The Sybil Logic Bomb'**
- 14:15 **Ask the Audience**
- 14:45 Scenario 3: **A Human Pandemic - 'São Paulo Virus Pandemic'**
- 15:30 *Tea Break*
- 16:00 **Assessing the Macroeconomic Implications of Emerging Risks** (Oxford Economics)
- 16:30 Panel Discussion 2 – **Preparing for Emerging Risks**
- 17:30 **Summing Up & Closing Remarks**