

Living Securely in the Internet of Things, 16 June 2023

Speakers Bios

Opening Keynotes

11:00 – 11:30



Prof. Jeremy Watson CBE FREng FIET
PETRAS Director
Professor of Engineering Systems, University College London
Recent Chief Scientist & Engineer, BRE
Past-President (2016–17) of the Institution of Engineering and Technology
jeremy.watson@ucl.ac.uk

Jeremy Watson CBE FREng is Professor of Engineering Systems at UCL. Until recently he was also Chief Scientist and Engineer at the Building Research Establishment (BRE). A past MHCLG Chief Scientific Adviser, he has senior industrial experience as BOC (Edwards) plc Technology Director, and Global Research Director at Arup.

Jeremy is a Fellow and Trustee of the Royal Academy of Engineering (and recent past Chair of the National Engineering Policy Committee). His specialties include emerging technology identification, cybersecurity at the 'Edge', sustainable engineering, systems thinking, research strategy and innovation processes.

Jeremy is currently Director and PI of the seven-year £24m PETRAS National Centre of Excellence for IoT Systems Cybersecurity funded by EPSRC under the £35m Securing Digital Technologies At the Periphery (SDTaP) initiative, co-developed by Jeremy. PETRAS comprises 22 universities and has 120+ industrial and government user partners.

Twitter: @ProfJeremyW



Dr Mike Short CBE FREng FIET FITP
Chief Architect – Satellite Applications Catapult
Former Chief Scientific Adviser, Dept for Business and Trade
Chair – UKTIN Advisory Board

Dr Mike Short CBE, after 30 years in telecommunications with Cellnet / BT / O2 and Telefonica, joined the Department for International Trade (DIT) in December 2017 as the Department's first Chief Scientific Adviser (now called Dept of Business and Trade). Since March 2023 he has been pursuing a portfolio career around innovation and research largely in telecommunications including as Chief Architect at the Satellite Applications Catapult and Adviser to National Physical Laboratories (NPL). He was announced as the first Chair of UKTIN Advisory Board in April 2023 (UK Telecomms Innovation Network).

Mike led the Science and Engineering profession and advised DIT on science, engineering and technology. He supported DIT on the technical aspects of export, inward investment and international engineering collaboration, and worked with the UK's research, innovation and academic communities to boost technology and engineering exports. He also represented DIT on many cross HMG committees such as Telecoms, Space, Health and Quantum, and on overseas delegations such as Mobile World Congress 2023, CES and Web Summit 2022. He was an active member of GoScience and SAGE advisory activities during the COVID pandemic, and a Board member on Innovate UK for 4 years to Q1 2023.

Mike has 4 decades of experience in electronics and telecommunications. This included a role as Vice President of Telefonica, the parent company of the O2 mobile phone network to the end of 2016. Since 1987, he has managed the launch of 2G (GSM) and 3G mobile technologies in the UK, helped win mobile licenses overseas, established an EU office in Brussels, and later led international research (including 4G / 5G), innovation and standards for Telefonica Europe. He also was the lead contact with the UK / EU Research programmes and International Standards, and managed the engagement with UK Universities. During this period he ran trials for Messaging and Mobile Internet, Mobile TV, Smart metering, Driverless cars, and IoT. He has also led the development and collaboration in areas such as Digital health, IoT, and cybersecurity including active participation in PETRAS and iSense multi year programmes linked to key Universities.

His career includes the promotion of international technical standards in mobile and digital technology. He is a former Chairman of the Global GSM Association, the UK Mobile Data Association, and was President of the Institution of Engineering and Technology in 2011/2012. Beyond these elected Board roles he has sat on the Governance Boards of ETSI, Tech UK, Innovate UK, and UK 5G. He is currently a Visiting Professor at the Universities of Surrey and Strathclyde. He holds honorary doctorates from Brunel and Warwick Universities amongst others, and was honoured with a CBE in 2012 for his services to the mobile industry.

Humans in the Loop of Connected Cities

Keynote

11:30 – 11:45



Rachel Cooper OBE
Distinguished Professor of Design Management and Policy
Lancaster University
r.cooper@lancaster.ac.uk

Rachel is founding Director of ImaginationLancaster, <http://imagination.lancaster.ac.uk> an open and exploratory design-led research centre conducting applied and theoretical research into people, products, places and their interactions. Much of which her research has focused on the future of cities and human and planetary wellbeing. She has published extensively on these topics, including books, 'Designing Sustainable Cities', 'The Handbook of Wellbeing and the Environment', 'Living in Digital Worlds; designing the digital public space', 'Design for Global Challenges and Goals'.

She was a member of the Blakett Review of The Internet of Things (2014), a Lead Expert for the UK Government Foresight programme on the Future of Cities, (2013-2016), was on the UK Academy of Medical Sciences Working group addressing 'The Health of the Public 2040' (2015-16), on the board of connected Places Catapult (2013-2020) Commissioner and Chair of Built Environment Subcommittee of the Oxford Commission for Creating Healthy Cities (2020-2022), a member of the International Science Council Committee on Urban Health and Wellbeing, a complex system approach (2015 -2022), and is Chair of the UK Prevention Research Partnership, Scientific Advisory Board. Rachel has been a co-investigator on PETRAS Research Hub/Centre since 2015.

Humans in the Loop of Connected Cities

Expert Panel Discussion

11:45 – 12:30



Liz Varga
Professor of Complex Systems
University College London (UCL)
l.varga@ucl.ac.uk

Liz Varga is a Professor of Complex Systems. She joined University College London (UCL) in 2019 and is developing a new Institute for Infrastructure Systems providing thought leadership on innovation, resilience and efficiency in infrastructure. Infrastructure provides critical services, such as power, heating, waste management, digital services and clean water, which need continuous adaptation to meet society's needs whilst protecting against hazards and minimising environmental harm. She uses multi-disciplinary approaches to investigate and recommend changes to infrastructure, treating infrastructure as an open and complex system of systems, with intra- and inter-dependencies, feedbacks, and non-linearities leading to uncertainties in the trajectories for innovation, resilience and efficiency.

Prof Varga focuses on research and supervises a number of doctoral and masters' students. She is a top 6% EPSRC Peer Review College reviewer (2019), an invited speaker on infrastructure systems, resilience and future cities, invited international funding reviewer, lecturer in systems, society and sustainability for engineers, and, an international journal reviewer for: Emergence: Complexity and Organisation (2008-). She has edited special issues on integrated utility systems, and complexity, and has a chapter in the new Edward Elgar Handbook of Research Methods in Complexity Science. She was Director of Cranfield University's Complex Systems Research Centre 2009-2019. In 2021, Liz was also made a Fellow of the Academy of Social Sciences.

Prof Varga's skills are in creating abstractions of real-world systems, recognising emergent phenomena and co-evolutionary effects, and designing computational agent-based models to represent the dynamics of inter-connected systems to detect emergent properties. She has experience of system transitions, modelling the effects of policy, technology and innovation under different future scenarios, and analysing computational outputs. Current research includes: AGILE, on distributed energy digitalisation, OPTEMIN, on improving economic and environmental performance via waste heat recovery, and energy integration, DAFNI, on data analytics and visualisation of infrastructure systems, and CECAN, on evaluation and assessment across nexus systems. She has over 90 peer-reviewed publications, book chapters, conference papers and practitioner reports. She won the Cranfield University Research Award (2014, 2016).



Prof Chris Speed,
Chair of Design Informatics
University of Edinburgh
c.speed@ed.ac.uk

Chris Speed is Chair of Design Informatics at the University of Edinburgh. His research focuses on the Network Society, Digital Art and Technology, and IoT. Chris holds two Directorships at the University of Edinburgh:

- 2023 – Present Director, Edinburgh Futures Institute, transforming the 22,000m² Old Royal Infirmary of Edinburgh, a Florence Nightingale hospital in the centre of Edinburgh, into a world leading centre for interdisciplinary teaching, research and innovation.
- 2018 – Present Director of Creative Informatics, one of nine UK government funded research and innovation clusters (£7.4m) that is specifically designed to support the development of new products and services for the Creative Industries.
- 2020-2022 Director for Innovation, Edinburgh Futures Institute, based upon the momentum of the Institute for Design Informatics, and the impact across innovation for the Creative Informatics programme, Chris led the initial development of the Innovation culture within the Edinburgh Futures Institute.

Throughout his career, Chris has sustained a critical and ethical enquiry into how network technology can engage with the fields of art, design and social experience through various international digital art exhibitions, funded research projects, books journals and conferences. In 2020, Chris was awarded the Chancellors Award for Research at the University of Edinburgh, the most prestigious recognition for commitment, expertise and experience in the development of research cultures and economies.



Rachel Harker
Technology Consultant
Digital Jersey
rachel.harker@digital.je

Rachel is an applied technologist and specialises in developing and commercialising novel digital-plus-hardware technology with a focus on complex interdisciplinary challenges. She consults with R&D departments at multi-national companies and in Jersey, Channel Islands where through Digital Jersey she has led the establishment of Jersey's first legally constituted data trust, LifeCycle, which is empowering local cyclists to aggregate cycling data with the aim of improving cycling conditions. This is part of a push to make better use of data in the Island and build the digital twin of Jersey.

Humans in the Loop of Connected Cities

Short Presentation

12:30 – 12:40



Dr Naomi Jacobs
Lecturer in Design Policy and Futures Thinking
Lancaster University

Naomi is Lecturer in Design Policy and Futures Thinking. As an interdisciplinary academic, her work crosses various disciplines including design, computer science, social science, and fan and audience studies. Naomi's previous work has focused primarily on interaction; between individuals, communities, disciplines or sectors, and between people and technology and the media they consume. She is particularly interested in ethics, privacy and trust relating to emerging technologies, and the intersection between the digital and the physical, often exploring this using speculative methods and design fiction.

Naomi has been part of several research projects looking at how technologies such as IoT and AI are implemented and governed. She is currently a member of the Policy and Governance Special Interest Group at Imagination Lancaster, and is carrying out research related to design for policy, particularly in the context of policy for new technologies. Naomi has published papers on topics including the governance of smart cities, livestreaming of fan conventions, the potentials of IoT for food safety, and how to use zombie apocalypse modelling for epidemiology education.

Holistic Cybersecurity for Operational Technology in Critical National Infrastructure

Keynote

13:40 – 13:55



Prof. Jeremy Watson CBE FEng FIET

PETRAS Director

Professor of Engineering Systems, University College London

Recent Chief Scientist & Engineer, BRE

Past-President (2016–17) of the Institution of Engineering and Technology

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Jeremy is a Fellow and Trustee of the Royal Academy of Engineering (and recent past Chair of the National Engineering Policy Committee). His specialties include emerging technology identification, cybersecurity at the 'Edge', sustainable engineering, systems thinking, research strategy and innovation processes.

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Twitter: @ProfJeremyW

Holistic Cybersecurity for Operational Technology in Critical National Infrastructure

Expert Panel Discussion

13:55 – 14:40



Prof. Julie McCann

Deputy Director of PETRAS; Co-I Logistics 4.0: Securing High Value Goods using Self-Protecting Edge Compute (LOG40)

Imperial College London

[j.mccann\(at\)imperial.ac.uk](mailto:j.mccann(at)imperial.ac.uk)

Professor Julie McCann heads up the Adaptive Emergent Systems Engineering (AESE) group in the Department of Computing at Imperial College where she leads a highly multi-disciplinary group of Post Docs and PhD students. From this she leads the Resilient and Robust Infrastructure challenge part of the Data Centric Engineering theme in the Alan Turing Institute. She is PI for the NRF funded Singapore Smart Sensing project, and the Logistics 4.0 project with PETRAS and the Tate Modern. She is Imperial PI for the EPSRC Science of Sensing Systems Software (S4) programme grant. Until recently she was Co-director of the Intel Collaborative Research Institute on Sustainable Connected Cities and Co-PI of the NEC Smart Water Lab. She is currently Director of the cross-Imperial Smart Connected Futures Network.

Until recently she was Co-director of the Intel Collaborative Research Institute on Sustainable Connected Cities and Co-PI of the NEC Smart Water Lab and Director of the cross-Imperial Smart Connected Futures Network. She is actively involved in the field's top conferences (Infocom, Sensys, IPSN, and EWSN) and is an Associated Editor for IoT-J.

McCann's body of practical work unifies decentralised algorithms, protocols, cross-layer, dynamical solutions, with a particular focus on low-powered, low-resourced devices that can act as modern wireless sensor-based systems or future smart matter. She applies this to Space, Agri and Infrastructure Engineering challenges (encompassing the Internet of Things and Cyber-physical systems). Her interests lie in harnessing the various interactions between the cyber and physical to improve performance, resilience and to make secure.

Twitter: @JAMGMcC



Victor Lough
Cyber Security Business Consultant
Schneider Electric

Victor has over 30 years of industrial control and asset management experience and was in 2006 a foundational member of the Schneider-Electric Cyber Security business, where he has worked on a number of interesting projects, including the delivery of a quantum secure hybrid Zero Trust security network architecture for a UK DNO. Victor is an active NCSC ICS COI member and read Physics with Solid-State Electronics at Heriot-Watt University.



Emma Taylor
Cybersecurity | Risk Management and Asset Integrity | RAEng Visiting
Professor in Digital Safety and Security
Razor Secure

Emma is a Chartered Engineer with more than 30 years of experience across three sectors, aerospace, energy and transport. As Head of Digital Safety at RazorSecure, rail cyber security specialists, she is part of a rapidly growing team, deploying hardware and software to protect and monitor networks and key systems for rolling stock and signalling infrastructure in the UK and overseas. Working closely with regulators, industry, academia and standards bodies, her focus is on integrating safety and security disciplines, including implementing Digital Maintenance. A winner of a number of industry awards, she also holds a Royal Academy of Engineering Visiting Professorship in Digital Safety and Security and is a Fellow of the Institution of Mechanical Engineers and the Safety and Reliability Society.



Prof Weisi Guo
Cranfield University

Prof. Weisi Guo graduated from Cambridge with MEng, MA, and PhD degrees in engineering and computer science. He is currently head of the Human Machine Intelligence Group and director for smart living grand challenge at Cranfield University. Previously he was at University of Warwick and Turing Fellow at the Alan Turing Institute. His research focuses on networks, cybersecurity, and autonomy, seeking to improve human trust in autonomous and IoT systems. He has been PI on £6.5m of grants and won numerous awards by IEEE, IET, and Bell Labs. His work has been published in Nature, Nature Machine Intelligence, Nature Communications, and has featured as cover issue on IEEE, Royal Society, and Nature publications.



Dr. Ric Derbyshire
Senior Security Researcher at Orange Cyberdefense
Honorary Researcher at Lancaster University

Ric is a Senior Security Researcher at Orange Cyberdefense and an Honorary Researcher at Lancaster University, where he obtained his PhD in computer science. His research involves a pragmatic and practically applicable approach to both offensive and defensive elements of cybersecurity, with a focus on novel offensive techniques, quantitative risk assessment, and operational technology.

Holistic Cybersecurity for Operational Technology in Critical National Infrastructure

Short Presentation: Digital resilience for critical national infrastructure

14:40 – 14:50



Prof. Dimitrios Pezaros
Professor of Computer Networks and RAEng Research Chair
University of Glasgow

Dimitrios Pezaros is Professor of Computer Networks in the School of Computing Science at the University of Glasgow, where he holds the Royal Academy of Engineering Research Chair in Digital Resilience for Critical National Infrastructure. He is the founding director of the Networked Systems Research Laboratory (netlab) and director of the Cyberdefence lab at Glasgow, and he has been the head of the Glasgow Systems Section (GLASS) between 2019-2023. He was a visiting professor at the University of Athens, Department of Informatics and Telecommunications during 2018-19.

Professor Pezaros has published widely and is leading research in computer communications, network and service management, and digital resilience of future and heterogeneous networked infrastructures, exploring technologies such as network programmability and function virtualisation. He has received significant funding for his research from the Engineering and Physical Sciences Research Council (EPSRC), the European Commission (EC), the Defence Science and Technology Laboratory (Dstl), the Royal Academy of Engineering (RAEng), the London Mathematical Society (LMS), the US Federal Aviation Administration (FAA), and industry (incl. BT, EDF, NXP, etc.).

Resilient Global Supply Chains

Keynote

15:15 – 15:30



Hazel Culley
Lead for FMCG & Retail Sectors
twentyfifty

Hazel has worked with the global supply chains for over 20 years. She currently works at twentyfifty a consultancy specialising in human rights and business where Hazel leads all of the work surrounding FMCG and retail clients. Hazel is a human rights, supply chain and sustainable business expert and is skilled in a broad range of subject areas including embedding human rights into corporate governance, human rights strategy, living wage and income and gender. Prior to working with twentyfifty Hazel worked for Marks & Spencer for 14 years working with the food purchasing and technical teams to embed human rights and sustainability and working on their ambitious Plan A programme.

She is widely travelled and has worked with and visited suppliers globally. Her first job after graduating from university was as a buyer for Sainsburys, the commercial experience gained at this time has been essential in understanding how we can embed human rights into commercial decision making. The place where true change will happen. This also provided a solid foundation for her interest & passion for working in global supply chains. Hazel works with the Cambridge Institute for Sustainability Leadership (CISL) tutoring on a number of courses including the short course Sustainable Supply Chains.

Resilient Global Supply Chains Expert Panel Discussion 15:30 – 16:15



Prof Madeline Carr
Professor of Global Politics and Cybersecurity
University College London

Madeline Carr is Professor of Global Politics and Cybersecurity at University College London. Her research focuses on the implications of emerging technology for national and global security, international order, and corporate governance. Professor Carr has published on cyber norms, multi-stakeholder Internet governance, the future of the insurance sector in the IoT, cybersecurity and international law, the public/private partnership in national cyber security strategies, and the ways in which boards approach cyber risk.

Professor Carr is the co-editor of a Rowman and Littlefield book series on Digital Technologies and Global Politics. She is a member of the World Economic Forum Global Council on the Connected World where she chairs a cross-sectoral group working on the cybersecurity of the Internet of Things. She is also the Co-Director of an interdisciplinary Centre for Doctoral Training in Cybersecurity at UCL and Deputy Director of the REPHRAIN Protecting Citizens Online research hub.

From 2018 – 2022, Carr was the Director of the UK wide Research Institute for Sociotechnical Cyber Security and developed a research programme on cybersecurity in local government. Board appointments include NED for Talion and the Advisory Board for the £70M Digital Secure by Design project.



Prof Siraj Shaikh
Professor in Systems Security, Computer Science
Swansea University

Siraj Shaikh is a Professor in Systems Security at Swansea University (UK). His research interests lie at the intersection of cybersecurity, systems engineering and computer science addressing cyber-physical systems security for automotive and transport systems. He is also Co-Founder and Chief Scientist at [CyberOwl](#), which is dedicated to risk analytics and security monitoring for the maritime sector.

Siraj is also currently a Visiting Professor in the Research Group on Security, Risks Management and Conflict (SEGERICO) at [Nebrija University](#) (Spain). Previously, he has also held Royal Academy of Engineering's Industry Fellowship hosted at HORIBA MIRA (2015-2016). His research has been funded by EPSRC, ESRC, Lloyds Register Foundation (LRF), DSTL, British Council and Royal Academy of Engineering (RAEng).

Siraj has been involved in research, development and evaluation of large-scale distributed secure systems for over twenty-two years. His doctoral and post-doctoral research involved design and verification of security and safety-critical systems. Siraj has recently co-authored a book on [Formal Methods for Software Engineering Languages, Methods, Application Domains](#) published by Springer (2022).



Stuart Chalmers
Head of Digital Products
National Physical Laboratory (NPL)

Stuart Chalmers is Head of Digital Products at NPL. He is responsible for NPL's Digital products and services portfolio, and building a future roadmap of new digital products and business models. Before joining NPL, he was the Director of Digital Products at BRE and led on the design, creation and delivery of BRE's commercial software platforms. He gained my PhD in Artificial Intelligence from the University of Aberdeen before joining the Royal Institute of British Architects, contributing to specialist technical groups and industry standards bodies, as well as managing and developing RIBA research directives in the representation and use of data and knowledge management for BIM. He worked at Chalmers University with the SP Technical Research Institute of Sweden aiding in the design of communication languages for distributed driving simulator prototypes, and at the University of Glasgow investigating the modelling and collaborative re-use of astronomy data. He is a Visiting Professor at UCL Department of Computer Science.



Dr. Oktay Cetinkaya
Senior Research Associate
University of Oxford
oktay.cetinkaya@eng.ox.ac.uk

Oktay Cetinkaya is a PETRAS Synthesis Senior Research Associate based at the University of Oxford, with the primary role of "synthesising" the diverse elements of the PETRAS research base to increase the generality and applicability of the findings across 22 institutions.

Oktay received his BEng degrees (H. Hons) with a double major in Electrical Engineering & Electronics and Communication Engineering from Yildiz Technical University, Turkey, in 2013 and 2014, respectively. He then started his PhD in Electrical and Electronics Engineering at Koç University, Turkey, and was awarded in early 2018. After his PhD, he first worked as a Research Fellow in Networked Embedded Systems at the University of Southampton, then as a Research Associate in Wireless Network Performance at The University of Sheffield for around two years each.

In April 2022, he joined the University of Oxford in his current role. During these appointments, he has written funding proposals, co-led research projects, supervised junior staff, and given several talks besides delivering his research duties/outputs. His research is broadly on the energy-constrained Internet of Things, in which he has (co-)authored more than 40 papers published in highly-respected journals, conference proceedings, and book series.



Prof. David De Roure
PETRAS Quintet member
University of Oxford
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Professor David De Roure FBCS FIMA FRSA is Professor of e-Research at the University of Oxford. Throughout his career he has investigated emerging technologies and models in large scale distributed and sociotechnical systems, with a broad interest in society, technology and creativity while also focusing on innovation in the process of scholarship. From an early background in electronics and computer science, he became closely involved in the Hypertext, Web, and linked data communities, in pervasive computing, and in digital social research. Today he focuses on living in the Internet of Things, on new methods of digital scholarship, and innovation in knowledge infrastructure. David's personal research is at the intersection of music, maths, machines and AI, empowering the creative human in music composition, performance and production. David works closely with multiple disciplines including humanities (digital humanities, digital musicology), engineering (Internet of Things, cybersecurity), social sciences (Social Machines, Web Science), information science (knowledge infrastructure, computational archival science), and computer science (large scale distributed systems, AI). He is a founding member of two major UK initiatives: the PETRAS National Centre of Excellence for Internet of Things Cybersecurity, and the Software Sustainability Institute.

Resilient Global Supply Chains

Short Presentation: Logistics 4.0 - Tate

16:15 – 16:25



Dr Michael Breza
Research Associate
Imperial College London

Dr. Breza is a research fellow with the AESE group. He is currently researching smart sensing systems for logistics applications as part of the PETRAS project DigiPorts. As part of this project he investigates failure models of sensors and their communication networks, and the way that these failures influence the fidelity of tracking data. He is also involved in a project that is investigating the use of different radio communication mediums and protocols for in-flight inter unmanned autonomous vehicle organization. Dr. Breza completed his PhD in the AESE group in 2013.



Kate Parsons
Director of Collections Care and Access
V&A

Kate Parsons is Director of Collections Care and Access at the V&A - the world's leading museum of art and design, housing a permanent collection of over 2.3 million objects that span over 5,000 years of human creativity. She leads a wide-ranging and multi-disciplinary division, bringing together the expertise of the Collections Management, Conservation, Photography and Digitisation, Technical Services and Collections Access teams, to support the management, care, and display of the V&A's collections.

Kate has over 25 years' experience in the field of collection management. Prior to her current role she was Head of Collection Management at Tate where she oversaw the practical, logistical, and legal aspects of managing Tate's collections and programmes. She has held the Chair of the UK Registrar's Group, contributes to numerous working groups and research initiatives across the sector and has delivered training programmes in sharing and caring for collections worldwide.

Kate is co-investigator on Logistics 4.0: Securing High Value Goods using Self-Protecting Edge Compute, funded by PETRAS (SDTaP)



Alyson Rolington
Head of Collection Management
Tate

Alyson is Head of Collection Management at Tate and has over 19 years of experience in collection management in the museums and galleries sector. Alyson joined Tate in 2008, working as a registrar across roles in Collection Care and for five years jointly with National Galleries of Scotland as Exhibitions and Collection Manager on the ARTIST ROOMS national touring programme. Previous to Tate she held roles at Barbican Art Gallery and Parasol Unit. As Head of Collection Management Alyson brings wide-ranging knowledge and expertise in all aspects of managing collections, exhibitions, loans and acquisitions.

Alyson is co-investigator on Logistics 4.0: Securing High Value Goods using Self-Protecting Edge Compute, funded by PETRAS (SDTaP)