



CONTENTS	PAGE
I. About the Alliance	2
II. About the UKSAEI Symposium 2022	3
III. UKSAEI Symposium 2022 -- Main Programme	4
IV. UKSAEI Symposium 2022 -- Student Programme	10
V. APPENDICES	
a. About the UKSAEI Sub Working Groups	14
b. Research Collaboration Sub Working Group Workshop Schedule	15
c. Think Tank Sub Working Group Discussion Agenda Proposal	21
d. Detailed Programme Itinerary for “Singapore Night” Networking	23
e. Detailed Programme Itinerary for UKSAEI Symposium 2022 Welcome & Opening Ceremony	24
f. Detailed Programme Itinerary for UKSAEI Symposium 2022 Gala Dinner	25
g. Detailed Programme Itinerary for UKSAEI Hackathon & Closing Ceremony	26

I. About the Alliance

The UK-Singapore Universities Alliance for Entrepreneurship & Innovation was established in 2021 to share knowledge and facilitate collaboration between institutions in the two countries. In particular, the alliance seeks to facilitate engagement and collaboration between UK and Singapore universities on entrepreneurship and innovation.

Today, the Alliance brings together 19 world-leading universities from the UK and Singapore and sees growing membership to promote entrepreneurship and innovation through collaboration in knowledge exchanges, research, commercialisation and entrepreneurship training. Representatives from member universities participate in sub working groups, namely Think Tank, Research Collaboration and Student Exchange.

At present, the alliance is co-chaired by representatives from Coventry University and Singapore Management University.

3 Sub Working groups were established to deepen conversations. More information on the groups can be found in Appendices A to C.

- Research Collaboration led by University of Newcastle and University of Strathclyde
- Student Exchange led by Singapore Management University
- Think Tank led by Coventry University

Member Universities (UK and Singapore)	
1	University of Bath
2	University of Cambridge
3	Coventry University
4	Cranfield University
5	University of Dundee
6	University of Edinburgh
7	University of Glasgow
8	King's College London
9	University of Manchester
10	Newcastle University
11	University of Nottingham
12	University of Strathclyde
13	University of Surrey
14	Nanyang Technological University (NTU)
15	National University of Singapore (NUS)
16	Singapore Institute of Technology (SIT)
17	Singapore Management University (SMU)
18	Singapore University of Technology and Design (SUTD)
19	Singapore University of Social Science (SUSS)

II. About the UKSAEI Symposium 2022

The inaugural Symposium invites faculty and researchers, staff and students of its member universities to convene in Singapore for a week to strengthen ties and accelerate collaborations in the areas of innovation and entrepreneurship this year. This in-person event is supported by esteemed partners including and not limited to the British High Commission, National Research Foundation, Enterprise Singapore, SAP, and Yakult SG.

From 12 to 16 December 2022, the Symposium will see activities lined up, aligned with objectives listed below.

- a) Better appreciation of Singapore economic priorities and business challenges
- b) Develop better understanding of research, market and funding opportunities
- c) Explore public and private engagement opportunities
- d) Opportunity to build collaborations and partners – between universities/ universities and industry
- e) Get to know Singapore and the region of SE Asia
- f) Talent development -- work with fellow students from different backgrounds experiences and disciplines
- g) Build and strengthen ties in the innovation and entrepreneurship ecosystem



Following from the success of the UKSAEI Climate & Sustainability Hackathon 2021, the Symposium 2022 has incorporated a Hackathon to build closer collaboration among student talents across the UK and Singapore Universities. Members of the industry had sponsored sustainability-related challenge statements for diverse student teams to tackle. The theme for the Hackathon is *Innovations for Sustainability*.

III. UKSAEI Symposium 2022 Main Programme (as at 7 December 2022)

Day	Date	Time	MAIN SCHEDULE	VENUES/ ADDITIONAL NOTES	DETAILED AGENDA
1	12 Dec (Mon)		ARRIVAL OF SYMPOSIUM PARTICIPANTS	<i>Participants advised to check in to hotel by 3:00pm Singapore time</i>	
		1800	"SINGAPORE NIGHT" NETWORKING	Eden Hall, No. 28 Nassim Road Singapore 258403 Meeting Point for Bus Pick-up: Carlton Hotel Singapore Lobby, 76 Bras Basah Road, Singapore 189558. Buses depart at 1730h, 1745h and 1800h. Business Casual	See Appendix D for more details Welcome Remarks by HE Kara Owen, British High Commissioner to Singapore Welcome Remarks by Hugh Edmiston, Senior Vice President (Administration) of Singapore Management University (SMU) and UKSAEI Co-Chairperson
		2100	END		
2	13 Dec (Tue)	0900	MORNING COFFEE & TEA RECEPTION	Singapore Management University (SMU), Mochtar Riady Auditorium, 81 Victoria St, Singapore 188065	See Appendix E for more details Welcome remarks by Hugh Edmiston, Senior Vice President (Administration) of SMU and UKSAEI Co-Chairperson
		0930	WELCOME & OPENING CEREMONY	Business Casual	Opening Remarks by HE Kara Owen, British High Commissioner to Singapore Overview of National Research Foundation's (NRF) Innovation & Enterprise Initiatives by Tan Chor Kiang, Director (Innovation & Enterprise/ RIE Coordination Office/ Central Innovation Cluster), NRF Overview of UK Research and Innovation Ecosystem by Hanbin Zheng, Head of Science & Innovation Network, British High Commission Overview of Singapore Innovation Ecosystem by Jacqueline Chia, Deputy Director for Innovation Ecosystem Development, Enterprise Singapore Managing IP in the Innovation Ecosystem by Christabel Koh, Regional IP Business & Trade Advisor for SE Asia, British High Commission Concluding Remarks by Hugh Edmiston

		1030	SMU TOUR & INTRODUCTION OF STEERING COMMITTEE MEMBERS	Singapore Management University (SMU) Campus	Campus tour will be led by SMU representatives in groups. For more information, please visit SMU City Campus . Steering committee members and Guest Speakers will be ushered to a brief introductory session prior to the commencement of the campus tour.
		1140	SYMPOSIUM BRIEFING FOR PARTICIPANTS	Singapore Management University (SMU), SMU	
		1200	LUNCH	Connexion Level 5 Event	
		1300	SESSION WITH VENTURE CAPITALISTS: i. INDUSTRY CROSSROADS: SUSTAINABILITY MEET DIGITISATION ii. DECODING TECH TRANSFER IN UNIVERSITIES iii. UNIVERSITY SPINOUT PITCH SEGMENT	Space, 40 Stamford Rd, Singapore 178908	<p><u>[1300 to 1400h] Panel Discussion on Industry Crossroads - Sustainability Meets Digitisation</u></p> <p>In this panel session, we have invited industry sustainability practitioners from different organisations to share about their work in transforming their respective industries through Innovation and Technology. Panel Members:</p> <ol style="list-style-type: none"> 1. Moderator - Prof Simon Schillebeeckx, Founder and Chief Strategy Officer of Handprint 2. Karen Ng, Head of Digital Solutioning, ENGIE South-East Asia 3. Dr Andrew Powell, Senior International Industry Advisor, Edinburgh Innovations 4. Yana Kachurina, Principal, Sofina Group <p><u>[1415 to 1515h] Decoding Technology Transfer</u></p> <p>A unique opportunity for Technology Transfer Professionals to share from their wealth of experience on their greatest challenges, success stories and personal insights pertaining to technology transfer and commercialisation which can empower the audience. Speakers:</p> <ol style="list-style-type: none"> 1. Dr Sze Tiam-Lin, Former CTO and Founding Director of IPI 2. Melville Anderson, Head of IP & Commercialization, University of Glasgow 3. Dr George Baxter, CEO at Edinburgh Innovations, University of Edinburgh <p><u>[1530 to 1630h] University Spin-Out Pitch</u></p> <p>A platform for ready-to-commercialise, or spun-out companies from the universities to gather validations and feedback, establishing network connections with potential partners for collaborations, and offer access for potential investors to see some of the University's most entrepreneurial Academics with the opportunity to support and shape earlier-stage innovations with a strong commercial pathway. Presenting Teams:</p> <ol style="list-style-type: none"> 1. Prof Asen Asenov from Semiwise, University of Glasgow 2. Mohammed Adnan Azam from CREaiTORS, Nanyang Technological University 3. TBC 4. TBC
		1630	NETWORKING TEA		

		1700	SUBGROUP MEETINGS [!] - THINK TANK SUBGROUP - RESEARCH SUBGROUP	<p>Singapore Management University (SMU), SMU Connexion, 40 Stamford Rd, Singapore 178908</p> <p>Research: SMU Connexion – level 3, Active Learning Classroom 3-2</p> <p>Think Tank: SMU Connexion – level 3, Active Learning Classroom 3-1</p>	<p>See Appendices B & C for more details.</p> <p><u>Research Subgroup</u> Invited speakers will speak on the policy context and funding landscape, with particular regard to international collaboration, and ideally a focus on innovation and entrepreneurship, underpinning two themes, Low Carbon Manufacturing and Healthy Living. Speakers:</p> <ol style="list-style-type: none"> 1. Chair - Julian Taylor/ Carl Perrin, Executive Head of International Business Engagement, University of Strathclyde/ CEO & Professor at Institute for Clean Growth & Future Mobility, University of Coventry 2. Peter Mason, Head of Global Research and Innovation Policy, UK Universities International 3. Wei Theng POH, Deputy Director, International Relations, National Research Foundation (NRF), Prime Minister’s Office, Singapore 4. Laura Bones, Senior International Partnerships Manager, UKRI International, UK Research and Innovation (UKRI) 5. David Campbell-Molloy, Partnership Manager – Asia, Innovate UK 6. Hanbin Zheng/Mi Kyung Weiss, Head of Science, Technology, & Innovation / Senior Science and Innovation Advisor, British High Commission in Singapore <p><u>Think Tank Subgroup</u> General discussion and identifying agenda moving forwards Chair: Christopher Smyth, University of Dundee, UK Panel discussion:</p> <ol style="list-style-type: none"> 1. Prof Gideon Maas, Professor & Executive Director of the International Centre for Transformational Entrepreneurship (ICTE) 2. Dr George Baxter, CEO at Edinburgh Innovations, University of Edinburgh 3. Prof Lim Sun Sun, Vice President, Partnerships & Engagement, SMU 4. Prof Lim Khiang Wee, Director, Academic and Research Strategy/ Professor, Office of the Deputy President (Academic & Provost)
		1830	END		
		1900	STEERING COMMITTEE DINNER MEETING [1]	Level 33, 8 Marina Boulevard #33-01, Marina Bay Financial Centre Tower 1, Singapore 018981	For steering committee members or designates only.

3	14 Dec (Wed) INNOVATION ECOSYSTEM	0900	MORNING COFFEE & TEA RECEPTION	Singapore Institute of Technology, DV-USC-	
		0930	SPEAKER SERIES by the CHAMBERS OF COMMERCE	Singapore Hokkien Huay Kuan, 10 Dover Drive, Singapore 138683	For more information on the Chambers of Commerce, please visit SICC and BritCham websites. Speakers: Victor Mills, Chief Executive of Singapore International Chamber of Commerce; David Kelly, Executive Director of British Chamber of Commerce Singapore
		1030	SUBGROUP MEETINGS [II] - THINK TANK SUBGROUP - RESEARCH SUBGROUP	Singapore Institute of Technology (SIT), 10 Dover Drive, Singapore 138683 Research: SIT, DV-USC-SR1C Think Tank: SIT, DV-USC-SR1D	See Appendices B & C for more details. Research Subgroup To develop a joint approach to creating collaborative, funded, research topics for Alliance members that align with the ambitions of both Singapore and U.K. and focus on innovation, the participants of the workshop will conduct an open discussion covering 2 parallel tracks -- Low Carbon Manufacturing and Healthy Living. Chairs: Track 1: Low Carbon Manufacturing: <ol style="list-style-type: none"> 1. Carl Perrin, CEO & Professor at Institute for Clean Growth & Future Mobility, University of Coventry 2. Seeram Ramakrishna, Professor of Mechanical Engineering at National University of Singapore, Co-director of NUS Nanoscience and Nanotechnology Initiative (NUSNNI), Head of the Centre for Nanofibers and Nanotechnology, and Chair of the Circular Economy Taskforce Track 2: Healthy Living <ol style="list-style-type: none"> 1. Kelvin Tan/ Cheong Vee San, Head of Programme, Minor in Applied Ageing Studies, Senior Lecturer, S R Nathan School of Human Development, Singapore University of Social Sciences/ Research scientist of Early Detection of Health Risks and Prevention, ETH Zurich, Singapore 2. David McBeth, Director of Research and Innovation Services, RIS Office, University of Dundee Think Tank Subgroup Chair: Caroline Fleming, University of Surrey, UK Round table discussion focussing on the agenda identified on 13 Dec (above)
		1230	SIT TOUR & LUNCH		
		1400	VISIT TO NUS@BLOCK71	BLOCK71, 71 Ayer Rajah Crescent, Singapore 139951	Visit host(s): Dr. Koh Suwen, Director, Industry Liaison Office, NUS and Mr Gang Chern Sun, Senior Associate Director, NUS Enterprise. For more information, see BLOCK71 .
		1630	CULTURAL/ HERITAGE BUS TOUR	Coach Transfer at HarbourFront coach bay	1630: Pick-up at HarbourFront coach bay 1645: Visit Chinatown, Little India, The Merlion 1900: Drive pass Christmas Light-Up along Orchard Road 1930: Ends at Lau Pa Sat
		1930	END		
			<i>FREE & EASY DINNER</i>	<i>Lau Pa Sat</i>	

4	15 Dec (Thu) RESEARCH & INDUSTRY	1000	VISIT TO TEMASEK LIFE SCIENCES LABORATORY	1, Research Link, National University of Singapore, Singapore 117604	Visit host(s): Dr Azlinda Bte Anwar. For more information, please visit www.tll.org.sg .
		1230	LUNCH	Innovate 360, 9 Chin Bee Drive, Singapore 619860	Visit host(s): John Cheng, Founder & Director at Innovate 360, and Shannon Wong, Assistant Director (Research) at Feed 9 Billion. For more information, please visit Innovate 360 and Feed 9 Billion .
		1330	VISIT TO INNOVATE 360 & FEED 9 BILLION		
		1530	TEA	Singapore Management University (SMU), SMU Connexion, 40 Stamford Rd, Singapore 178908	
		1600	SUBGROUP MEETINGS [III] - THINK TANK SUBGROUP - RESEARCH SUBGROUP	Research: Level 3, Active Learning Classroom 3-2 Think Tank: Level 3, Active Learning Classroom 3-1	See Appendices B & C for more details. Research Subgroup To wrap up our understanding of developing a joint approach to creating collaborative, funded, research topics for the Alliance members that align with the ambitions of both Singapore and U.K. and focus on innovation, attendees will participate in a roundtable discussion on the features and mechanisms of developing collaborative research and next steps. Chairs as before, on 14 Dec. Think Tank Subgroup Chair: Dr Kelvin Tan, Singapore University of Social Sciences, SG Round table discussion focussing on the agenda identified on 13 Dec (above) Chair: Professor Clare McManus, The University of Glasgow, UK Identification of what should form part of a Grey Paper focussing on the theme of the role of university partnerships in the future entrepreneurial ecosystem Chair: Prof Gideon Maas, Coventry University, UK The way forwards and date of follow-up session
		1700	STEERING COMMITTEE MEETING [2]	Singapore Management University (SMU), SMU Connexion, Active Learning Classroom 3-1, 40 Stamford Rd, Singapore 178908	For steering committee members or designates and subgroup presenters only. Rest of participants may proceed to prepare for the Closing Dinner. Sharing in the sequence of: - Research subgroup - Student exchange subgroup - Think Tank subgroup
		1900	GALA DINNER	Grand Shanghai Restaurant, 390 Havelock Road, King's Centre, Level 1, Singapore 169662 Business Casual	See Appendix F for more details. Remarks by Michael Yap, Regional Managing Director for Coventry University Singapore Hub and UKSAEI Chairperson Closing Video
		2130	END		

5	16 Dec (Fri) HACKATHON & CLOSING	0900	MORNING COFFEE & TEA RECEPTION	NTU@one-north, 11 Slim Barracks Rise, Singapore 138664 Business Casual	
		0930	UKSAEI HACKATHON		See Appendix G for more details.
		1145	HACKATHON AWARDS & CLOSING CEREMONY		<p>Welcome Remarks by Michael Yap, Regional Managing Director for Coventry University Singapore Hub and UKSAEI Chairperson</p> <p>Introduction of Panel of Judges <i>KPMG - Cherine Fok, ESG Partner</i> <i>SMU - Prof Yuanto Kusnadi, Academic Director of SMU-X</i> <i>SAP - Anil Bhaskaran, Vice President, APJ Innovation Office</i></p> <p>Introduction of Hackathon Challenge Statements/ Judging Criteria</p> <p>Team Pitches & Q&A - 6 teams (10 min Pitch + 5 min Q&A)</p> <p>Presentation by Sponsor(s)</p> <p>Certificates & Prize Presentation</p>
		1220	NETWORKING LUNCH		
		1330	END		

IV. Student Programme (as at 7 December 2022)

ay	Date	Time	STUDENT PROGRAMME	VENUES/ ADDITIONAL NOTES	DETAILED AGENDA
1	12 Dec (Mon)		ARRIVAL OF SYMPOSIUM PARTICIPANTS	<i>Participants advised to check in to hotel by 3:00pm Singapore time</i>	
		1800	"SINGAPORE NIGHT" NETWORKING	Eden Hall, No. 28 Nassim Road Singapore 258403 Meeting Point for Bus Pick-up: Carlton Hotel Singapore Lobby, 76 Bras Basah Road, Singapore 189558. Buses depart at 1730h, 1745h and 1800h.	See Appendix D for more details Welcome Remarks by HE Kara Owen, British High Commissioner to Singapore Welcome Remarks by Hugh Edmiston, Senior Vice President (Administration) of Singapore Management University (SMU) and UKSAEI Co-Chairperson
		2100	END	Business Casual	
2	13 Dec (Tue)	0900	MORNING COFFEE & TEA RECEPTION	Singapore Management University (SMU), Mochtar Riady Auditorium, 81 Victoria St, Singapore 188065	See Appendix E for more details Welcome remarks by Hugh Edmiston, Senior Vice President (Administration) of SMU and UKSAEI Co-Chairperson
		0930	WELCOME & OPENING CEREMONY	Business Casual	Opening Remarks by HE Kara Owen, British High Commissioner to Singapore Overview of National Research Foundation's (NRF) Innovation & Enterprise Initiatives by Tan Chor Kiang, Director (Innovation & Enterprise/ RIE Coordination Office/ Central Innovation Cluster), NRF Overview of UK Research and Innovation Ecosystem by Hanbin Zheng, Head of Science & Innovation Network, British High Commission Overview of Singapore Innovation Ecosystem by Jacqueline Chia, Deputy Director for Innovation Ecosystem Development, Enterprise Singapore Managing IP in the Innovation Ecosystem by Christabel Koh, Regional IP Business & Trade Advisor for SE Asia, British High Commission Concluding Remarks by Hugh Edmiston

		1030	SMU TOUR & ICEBREAKERS	Singapore Management University (SMU) Campus	Campus tour will be led by SMU representatives in groups. For more information, please visit SMU City Campus .
		1140	SYMPOSIUM BRIEFING FOR PARTICIPANTS	Singapore Management University (SMU), SMU	
		1200	LUNCH	Connexion Level 5 Event Space, 40 Stamford Rd, Singapore 178908	
		1300	HACKATHON PROGRAMME i. WELCOME ii. INTRODUCTION TO SDGS iii. CHALLENGE STATEMENTS PITCHES iv. TEAM FORMATION & ROLES OF TEAM	Singapore Management University (SMU), SMU Connexion Active Learning Classroom 3-3, 40 Stamford Rd, Singapore 178908	1300 – Welcome by Dr Shelini Surendran 1305 – Introduction to SDGs by Cherine Fok 1335 – Challenge Statements Pitches by Debbie Watkins, Yeak Zu Wei, Nishanthini, Damien Lam representing respective Challenge Statement sponsors 1405 - Team Formation & Roles of Team by Dr Shelini Surendran
		1530	SAP EXPERIENCE CENTER	SAP Experience Center Singapore, 30 Pasir Panjang Rd, Singapore 117440	For more information, please visit SAP Experience Centres - Welcome by Anil Bhaskaran, Vice President, APJ Innovation Office, SAP - Tour of SAP Center Facilities by Nishan Ganesan, Experience Curator - Q&A - Networking
		1730	END		
		1830	<i>OPTIONAL: CONTINUED TEAMWORK</i>	<i>Student Hackathon: SMU Connexion – Active Learning Classroom 3-3</i>	
3	14 Dec (Wed)	0900	MORNING COFFEE & TEA RECEPTION	NewRIIS - Newcastle Research & Innovation Institute	
	INNOVATION ECOSYSTEM	0930	HACKATHON PROGRAMME i. Q&A ii. LEAN CANVAS iii. IDEATION ACTIVITY iv. MARKET OPP & TARGET MARKET v. REVENUE STREAMS AND MONETISING AN IDEA	80 Jurong East Street 21, #05-04 Devan Nair Institute for Employment & Employability, Singapore 609607	0930 – Q&A by Dr Shelini Surendran 0945 – Lean Canvas by WU Dan and Dr Shelini Surendran 1015 – Ideation Activity by WU Dan and Dr Shelini Surendran 1100 – Market Opportunity & Target Market by Theo Faul 1130 – Revenue Streams and Monetising an Idea by Arun Pooja
		1200	LUNCH		
		1400	NUS@BLOCK71	BLOCK71 Singapore, 71 Ayer Rajah Crescent, Singapore 139951	Visit host(s): Dr. Koh Suwen, Director, Industry Liaison Office, NUS and Mr Gang Chern Sun, Senior Associate Director, NUS Enterpris.e For more information, please visit BLOCK71 .

		1630	CULTURAL/ HERITAGE BUS TOUR	Coach Transfer at HarbourFront coach bay	Itinerary 1630: Pick-up at HarbourFront coach bay 1645: Visit Chinatown, Little India, The Merlion 1900: Drive pass Christmas Light-Up along Orchard Road 1930: Ends at Lau Pa Sat		
		1930	END				
			<i>FREE & EASY DINNER</i>	<i>Lau Pa Sat</i>			
4	15 Dec (Thu) RESEARCH & INDUSTRY	0930	MORNING COFFEE & TEA RECEPTION	NewRIIS - Newcastle Research & Innovation Institute 80 Jurong East Street 21, #05-04 Devan Nair Institute for Employment & Employability, Singapore 609607	0930 – Masterclass on Cost Structure by WU Dan and Dr Shelini Surendran 0930 – Marketing 101 Panelists by Suzy Goulding, Pete Nuttall and Matheaus Leong 1000 – Industry Spotlight by Dr Shelini Surendran, Arun Pooja and Carrie Chan 1100 – Masterclass on How to Create a Winning Pitch Deck by Dr Shelini		
			HACKATHON PROGRAMME i. MASTERCLASS ON COST STRUCTURE OR MARKETING 101 PANEL ii. INDUSTRY SPOTLIGHT iii. MASTERCLASS ON HOW TO CREATE A WINNING PITCH DECK iv. TEAMWORK				
		1200	LUNCH				
		1400	HACKATHON PROGRAMME (CONT'D) v. BUSINESS MENTORING vi. PITCH PRACTICE REFINEMENT SESSIONS			Business Mentors: Debbie Watkins, Wesley Hughes, Firuza Karimova, Theo Faul, Professor William Chen, Imogen Bould, Dr Shelini Surendran, Manami Sasaki, Dan Wu, Pete Nuttall Pitch Practice: Wesley Hughes, Firuza Karimova, Theo Faul, Imogen Bould, Dr Shelini Surendran, WU Dan, Pete Nuttall	
		1630	<i>OPTIONAL: PREPARATION FOR CLOSING DINNER</i>				
		1900	GALA DINNER			Grand Shanghai Restaurant, 390 Havelock Road, King's Centre, Level 1, Singapore 169662 Business Casual	See Appendix F for more details. Remarks by Michael Yap, Regional Managing Director for Coventry University Singapore Hub and UKSAEI Chairperson Closing Video
		2130	END				

5	16 Dec (Fri) HACKATHON & CLOSING	0900	MORNING COFFEE & TEA RECEPTION	NTU@one-north, 11 Slim Barracks Rise, Singapore 138664 Business Casual	
		0930	UKSAEI HACKATHON: INNOVATIONS FOR SUSTAINABILITY		See Appendix G for more details.
		1145	HACKATHON AWARDS & CLOSING CEREMONY		<p>Welcome Remarks by Michael Yap, Regional Managing Director for Coventry University Singapore Hub and UKSAEI Chairperson</p> <p>Introduction of Panel of Judges <i>KPMG - Cherine Fok, ESG Partner</i> <i>SMU - Prof Yuanto Kusnadi, Academic Director of SMU-X</i> <i>SAP - Anil Bhaskaran, Vice President, APJ Innovation Office</i></p> <p>Introduction of Hackathon Challenge Statements/ Judging Criteria</p> <p>Team Pitches & Q&A - 6 teams (10 min Pitch + 5 min Q&A)</p> <p>Presentation by Sponsor(s)</p> <p>Certificates & Prize Presentation</p>
		1220	NETWORKING LUNCH		
		1330	END		

APPENDIX A – About the UKSAEI Sub Working Groups

Research Collaboration Sub Working Group

The Research sub working group brings together colleagues interested in pursuing a collaborative research agenda. The group is focussed on identifying mechanisms to achieve joint working and how to achieve alignment in ambition, to secure lasting impact that could not be achieved by acting alone. As well as considering the “processes” to support collaborative research, the group is also interested in “content”, investigating some topics to pursue. These include healthy living and low carbon manufacturing. The group aim to identify specific areas of research that are relevant for both Singapore and the UK and can be delivered by universities working together

Student Exchange Sub Working Group

The Student Exchange sub working group had developed an Innovation and Entrepreneurship Student Exchange Programme (IESEP) as one of UKSAEI’s pilot initiatives. The programme aims to enable students from member universities to gain new knowledge and perspectives in I&E through educational courses and project work, develop networks and linkages with peers and to be exposed to the I&E landscape in Singapore and the UK. Ultimately promoting innovation and nurturing future entrepreneurs and bringing closer together the ecosystems of both countries. Under the IESEP, selected students from each participating member university will have the opportunity to enrol in a variety of I&E related courses and activities over one semester at a host university. Singapore Management University is leading on the project.

Think Tank Sub Working Group

Entrepreneurs act in vibrant environments where the creation and exchange of new knowledge leads to more changes and innovation. In such entrepreneurial ecosystems, key elements are continuously changing, and the degree of complexity can be overwhelming. By combining the efforts of leading universities within Singapore and the UK, this complexity can be addressed in an innovative manner. We firmly believe that together we can achieve more. Therefore, a Think Tank sub working group of the UKSAEI is leading discussions through this international think tank focusing specifically on how partner universities can act in a symbiotic manner improving the current and future entrepreneurial ecosystem. This think tank will seek to identify suitable means to translate this thought leadership into a stream of appropriate outputs and disseminate these outputs to Governments, industry and educational institutions who are either directly and/or indirectly involved in the promotion of entrepreneurship.

APPENDIX B – Research Collaboration Sub Working Group Workshop Schedule

OVERVIEW: DEVELOPING A COLLABORATIVE RESEARCH AGENDA – A PLAN FOR A PLAN

Part 1: Understanding the policy context and laying out the challenge

- Venue: **Singapore Management University (SMU), 40 Stamford Road, Singapore 178908, in SMU Connexion - Level 3, Active Learning Classroom 3-2**
- To develop a joint approach to creating collaborative, funded, research topics for Alliance members that align with the ambitions of both Singapore and U.K. and focus on innovation, on the 13 Dec 2022 five speakers from the respective organisations, UUKi, NRF, UKRI, InnovateUK, and British High Com, will speak on the policy context and funding landscape, with particular regard to international collaboration, and ideally a focus on innovation and entrepreneurship, underpinning two themes, Low Carbon Manufacturing and Healthy Living.
- All attendees are encouraged to stay through the sessions from the 13 Dec (Part 1), 14 Dec (Part 2) to 15 Dec (Part 3).

Singapore Time	UK Time	Hybrid presentation	Speakers
5:00-5:05 pm	9:00-9:05 am	Introduction	Julian Taylor/Carl Perrin (Chair)
5:05-5:20 pm	9:05-9:20 am	Title of <i>zoom</i> talk TBC	Peter Mason (UUKi; zooming in)
5:20-5:35 pm	9:20-9:35 am	Title of talk TBC	Wei Theng Poh (NRF)
5:35-5:50 pm	9:35-9:50 am	UKRI- an international overview.	Laura Bones (UKRI; zooming in)
5:50-6:05 pm	9:50-10:05 am	UK-Singapore Co-Innovation Opportunities	David Campbell-Molloy (InnovateUK; zooming in)
6:05-6:20 pm	10:05-10:20 am	Title of talk TBC	Hanbin Zheng/Mi Kyung Weiss (British High Com)
6:20-6:30 pm	10:20-10:30 am	Wrapping up	Carl Perrin/Kheng Lim Goh

Speakers	
Peter Mason	Head of Global Research and Innovation Policy, UK Universities International
Wei Theng Poh	Deputy Director, International Relations, National Research Foundation (NRF), Prime Minister’s Office, Singapore
Laura Bones	Senior International Partnerships Manager, UKRI International, UK Research and Innovation
David Campbell-Molloy	Partnership Manager – Asia, Innovate UK
Hanbin Zheng	Head of Science, Technology, & Innovation, British High Commission in Singapore
Mi Kyung Weiss	Senior Science and Innovation Advisor, British High Commission in Singapore

Chair, 13 Dec event	
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Background information**• Low carbon manufacturing (#1)**

- Low carbon manufacturing refers to the manufacturing process that produces low carbon emissions intensity and uses energy and resources efficiently and effectively during the process as well.
- In Singapore, as well as in the UK, the (manufacturing) industrial sector contributes to a considerable percentage of the total emissions.
- Both Singapore and UK are committed to work toward achieving global climate targets set in the 2015 Paris Agreement.
- National education in environmental concerns and new government regulations have resulted in greater consumer awareness of responsible consumption and sustainable manufacturing
- Industry 5.0 prioritizes the goals of sustainable manufacturing and industrial automation in the following ways:
 1. Efficient energy systems, is being assigned to promote zero-emission manufacturing
 2. Advanced computing and information systems, such as artificial Intelligence, industrial internet of things, robotics, and blockchain, have been deployed to help achieve zero-emission targets
 3. Key pollution-causing sectors, e.g. automotive, heavy industries, ICT, and packaging, are embracing sustainable approaches to help achieve zero-emission targets
 4. Circular models are increasing implemented to manage waste management crisis arising from high consumption demands and to overcome resource constraints

• Healthy Living (#2)

- Healthy living is about healthy lifestyle, with habits that improve one's health.
- In this context, there are several areas of concerns facing Singapore and the UK, e.g. a growing ageing population, managing COVID-19, managing the next pandemic, managing health cost for affordability and quality, food security and water security and impact on the health of the urban population, infrastructure for meeting the needs of the disabled.

14 Dec 2022

Part2: Workshop on designing and developing a framework for research that can address the shared challenges in UK and Singapore

- Venue: **Singapore Institute of Technology (SIT), 10 Dover Drive, Singapore 138683, in room SIT DV-USC-SR-1C**
- To develop a joint approach to creating collaborative, funded, research topics for Alliance members that align with the ambitions of both Singapore and U.K. and focus on innovation, the participants of the workshop will conduct an open discussion addressing broadly
 - a. In terms of past international collaborative research, what has worked well and why; what can be improved and how?
 - b. What do we understand are the key issues as presented by UKRI / NRF (half an hour): What does “excellent” look like (from their perspective)? (Probe: what are the characteristics of successful collaborative research)
 - c. On the back of the following two topics on Low Carbon Manufacturing and Healthy Living in two parallel tracks. (NB This arrangement may change, i.e. merge into one track, depending on the number of attendees in each track.)
- **The focus is on the mechanisms of engagement and partnership, rather than subject specific content.**
- Preparation is required. Please come prepared to talk about successful international collaborations in funded research that your university has participated. It would be good to share your thoughts on the positive experiences (and perhaps challenges).
- All attendees on 13 Dec are encouraged to stay through the sessions on the 14 Dec (Part 2) on 15 Dec (Part 3).

Singapore Time	Workshop	Chairs
10:30-12:30 pm	Track 1: Low carbon manufacturing (#1) <ul style="list-style-type: none"> • Designing and developing a framework for research that can address challenges • Open discussion and scene setter: In terms of past international collaborative research, what has worked well and why; what can be improved and how? • What do we understand are the key issues as presented by UKRI / NRF: What does “excellent” look like (from their perspective)? (Probe: what are the characteristics of successful collaborative research) 	Carl Perrin Seeram Ramakrishna
10:30-12:30 pm	Track 2: Healthy Living (#2) <ul style="list-style-type: none"> • Designing and developing a framework for research that can address challenges • Open discussion and scene setter: In terms of past international collaborative research, what has worked well and why; what can be improved and how? • What do we understand are the key issues as presented by UKRI / NRF: What does “excellent” look like (from their perspective)? (Probe: what are the characteristics of successful collaborative research) 	Kelvin Tan/Cheong Vee San David McBeth

- **General questions to think about**

1. What are the current barriers to the collaboration in tackling shared challenges?
2. What are the key enablers needed for Singapore and UK to realise their research and innovation collaboration in addressing shared challenges?
3. How to ensure that the research and innovation collaboration in tackling shared challenges are adequately addressed?
4. How to strengthen coordination and partnership between researchers in UK and Singapore to devise holistic responses to the shared addresses
5. What are action points to scale-up existing partnership at small scale?
6. How to ensure that the needs of potential partners are integrated in the funding agencies?
7. What are good examples of existing collaborative projects that has contributed to each area #1 and #2?
8. How to design and implement specific joint responses to address urgent needs of each area #1 and #2?
9. What challenges do you face in securing and accessing funding for each area #1 and #2?
10. What coordinated joint response (e.g. creation of a joint hub for low carbon manufacturing, for healthy living) can be developed to facilitate, and accelerate collaboration?

- **Questions on financial institutions:**

11. What innovative finance tools could be leveraged to accelerate and scale financial flows towards research and innovation collaboration in tackling shared challenges in each #1 and #2?
12. What are the most promising and innovative financial tools and mechanisms to improve quality and access to finance for tackling shared challenges in each area #1 and #2?

- **Question on private sector:**

13. How to maximize the involvement of the private sector in financing research and innovation collaboration in tackling shared challenges in each area #1 and #2?

Chairs, 14 Dec	
Carl Perrin	Professor & CEO at Institute for Clean Growth & Future Mobility, Coventry University
Seeram Ramakrishna	Professor of Mechanical Engineering at National University of Singapore. Co-director of NUS Nanoscience and Nanotechnology Initiative (NUSNNI). Head of the Centre for Nanofibers and Nanotechnology. Chair of the Circular Economy Taskforce.
Kelvin Tan	Head of Programme, Minor in Applied Ageing Studies, Senior Lecturer, S R Nathan School of Human Development, Singapore University of Social Sciences
Cheong Vee San	Research scientist of Early Detection of Health Risks and Prevention, ETH Zurich, Singapore
Anne Muir	Head of IP and Commercialisation, Research & Innovation, University of Dundee
David McBeth	Director of Research and Innovation Services, RIS Office, University of Dundee

15 Dec 2022

Part 3: Workshop on next steps forward for collaborative research

- Venue: **Singapore Management University (SMU), 40 Stamford Road, Singapore 178908, In Level 3, Active Learning Classroom 3-2**
- To wrap up our understanding of developing a joint approach to creating collaborative, funded, research topics for the Alliance members that align with the ambitions of both Singapore and U.K. and focus on innovation, in part 3 of this event, the attendees will participate in a roundtable discussion on the
 - a. **features** and **mechanisms** of developing collaborative research;
 - b. **next steps**;
- Possible specific features and mechanisms of developing collaborative research with respect to the two topics on Low Carbon Manufacturing and Healthy Living. (NB Again, with regard to the parallel tracks, this arrangement may change, i.e. merge into one track, depending on the number of attendees in each track.)
- All attendees on 13 Dec (Part 1) and 14 Dec (Part 2) are encouraged to stay on for this session on 15 Dec (Part 3).

Singapore Time	Workshop	Chairs
4:00-5:00 pm	<i>Track 1: Low Carbon Manufacturing</i>	Carl Perrin, Seeram Ramakrishna
	What are the features and mechanisms of developing collaborative research in the themes Plenary to share approaches Follow up and next steps – what do we do after this event?	
4:00-5:00 pm	<i>Track 2: Healthy Living</i>	Kelvin Tan/Cheong Vee San David McBeth
	What are the features and mechanisms of developing collaborative research in the themes Plenary to share approaches Follow up and next steps – what do we do after this event?	

Chairs, 15 Dec	
Carl Perrin	Professor & CEO at Institute for Clean Growth & Future Mobility, Coventry University
Seeram Ramakrishna	Professor of Mechanical Engineering at National University of Singapore. Co-director of NUS Nanoscience and Nanotechnology Initiative (NUSNNI). Head of the Centre for Nanofibers and Nanotechnology. Chair of the Circular Economy Taskforce.

Kelvin Tan	Head of Programme, Minor in Applied Ageing Studies, Senior Lecturer, S R Nathan School of Human Development, Singapore University of Social Sciences
Cheong Vee San	Research scientist of Connected Rehabilitation Technology and Assistive Devices, ETH Zurich, Singapore
Anne Muir	Head of IP and Commercialisation, Research and Innovation, University of Dundee
David McBeth	Director of Research and Innovation Services, RIS Office, University of Dundee

Further Enquiries, please contact Organisers

Julian Taylor at julian.taylor@strath.ac.uk

Kheng-Lim Goh at kheng-lim.goh@newcastle.ac.uk

APPENDIX C – Think Tank Sub Working Group Discussion Agenda Proposal

OVERVIEW: THE FUTURE ENTREPRENEURIAL ECOSYSTEM – THE ROLE OF PARTNERSHIP UNIVERSITIES

You are invited to the UK-Singapore Universities Alliance for Entrepreneurship and Innovation's (UKSAEI) first Think Tank - an opportunity to explore, debate and identify developments of the future entrepreneurial ecosystems for partner universities with the aim to enhance their successful role in transforming societies.

Entrepreneurs act in vibrant environments where the creation and exchange of new knowledge leads to crucial changes and innovation. In such entrepreneurial ecosystems, key elements are continuously changing and the degree of complexity can be overwhelming. By combining the efforts of leading universities within Singapore and the UK, this complexity can be addressed in an innovative manner. We firmly believe that together we can achieve more.

UKSAEI believes that sharing and debating possible alternative future solutions from a multi-partnership basis, proactive ideas and opportunities will lead to creating future sustainable socio-economic development. A sub-group of the UKSAEI is therefore leading discussions through this international think tank focusing specifically on how partner universities can act in a symbiotic manner improving the current and future entrepreneurial ecosystem. This think tank will seek to identify suitable means to translate this thought leadership into a stream of appropriate outputs and disseminate these outputs to Governments, industry and educational institutions who are either directly and/or indirectly involved in the promotion of entrepreneurship.

ATTENDANCE

Attendance of this event will be restricted to members of UKSAEI and selected invited guests from industry and Government. People who are involved in enterprise and innovation within the member organisations are ideal participants for this Think Tank. In order to allow for maximum interaction, the number of participants will be extended to relevant participants and capped at 40.

WHAT TO EXPECT

Set up as an innovative, collaborative and interactive event, this Think Tank is about fostering a community of supportive entrepreneurial mind-sets in the fast-growing global landscape. To allow for maximum interaction, the programme is spread over three days of sessions of 90 minutes each. This Think Tank will be presented face-to-face. However, the follow-up sessions (after the Think Tank), post symposium, will be in a hybrid format.

PROGRAMME

The programme is as follows:

13 December 2022 (17:00-18:30)

Chair: Christopher Smyth, University of Dundee, UK

Panel discussion: Prof Gideon Maas (Coventry University), Dr George Baxter (Edinburgh Innovations), Prof Lim Sun Sun (Singapore Management University), TBC.

General discussion and identifying agenda moving forwards (45 minutes).

Agenda:

- Should universities be involved in the support of entrepreneurship?
- What do entrepreneurial ecosystems matter?

- What are possible future trends that might affect entrepreneurial ecosystems?
- Why should we work together as partners in an entrepreneurial ecosystem?
- What are the needs of Singapore/UK partners regarding a joint entrepreneurial ecosystem?
- What potential new activities should be phased in by the partnership?

14 December 2022 (10:30-12:30)

Chair: Caroline Fleming, University of Surrey, UK

Round table discussion focusing on the agenda identified on 13 December 2022.

Agenda:

- Any additional thoughts on the agenda created the previous day.
- What are the key requirements for a successful entrepreneurial ecosystem?
- How can the impact of this entrepreneurial ecosystem be measured?

15 December 2022 (16:00-17:00)

Chair: Dr Kelvin Tan, Singapore University of Social Sciences, Singapore

Round table discussion focusing on the agenda identified on 13 December 2022. (20 minutes)

Agenda:

- Any additional thoughts on the agenda created the previous day.

Chair: Professor Clare McManus, The University of Glasgow, UK

Identification of what should form part of a Grey Paper focusing on the theme of the role of university partnerships in the future entrepreneurial ecosystem. (20 minutes)

Agenda:

- Why is a Grey Paper needed?
- What should be included in the Grey Paper?

Chair: Prof Gideon Maas, Coventry University, UK

The way forwards and date of follow-up session. (20 minutes)

Agenda:

- Date of the next session.

FURTHER ENQUIRIES

Prof Gideon Maas at aa4122@coventry.ac.uk.

APPENDIX D: Detailed Programme Itinerary for “Singapore Night” Networking

Monday, 12 December 2022

7:00pm to 9:00pm

Eden Hall, No. 28 Nassim Road, Singapore 258403

Dress Code: Business Casual

Time	Activity
6:00pm	Gates Open & Registration of Guests
6:00pm	Networking Commences
7:00pm	Welcome Remarks by HE Kara Owen, British High Commissioner to Singapore
7:05pm	Welcome Remarks by Mr Hugh Edmiston, Senior Vice President (Administration) of Singapore Management University & UKSAEI Co-Chairperson
7:15pm	Group Photo-taking
7:15pm	Cocktail Reception (Networking Resumes)
9:00pm	Event Ends

Notes:

- Your invitation is **non-transferable**. This event is exclusive for participants and invited guests only. Please remember to bring **this email along with a photo ID** on the day itself.
- Guests and all bags will be subject to search. Large bags will not be permitted inside the venue and there will be no baggage storage service.
- This is a non-smoking event.
- We recommend you plan transport accordingly, as there will be no parking at the event. (We encourage guests to leverage on the Symposium bus charter, public transport or arrive by taxi where possible.)
- Your attendance at this event conveys consent to having your photos displayed on various social, digital and media channels of the British High Commission Singapore and the UK-Singapore Universities Alliance for Entrepreneurship & Innovation.

APPENDIX E: Detailed Programme Itinerary for UKSAEI Symposium 2022 Welcome & Opening Ceremony

Tuesday, 13 December 2022

9:30am to 10:30am

Singapore Management University (SMU), Mochtar Riady Auditorium, 81 Victoria St, Singapore 188065

Dress Code: Business Casual

Time	Programme
9:00am	Arrival and Registration Morning Coffee & Tea Reception
9:25am	Participants Seated
9:30am	Arrival of VIP/VVIP
9:35am	Welcome remarks by Hugh Edmiston, Senior Vice President (Administration) of SMU and UKSAEI Co-Chairperson
9:40am	Opening Remarks by HE Kara Owen, British High Commissioner to Singapore
9:50am	Overview of National Research Foundation's Innovation & Enterprise Initiatives by Tan Chor Kiang, Director (Innovation & Enterprise/ RIE Coordination Office/ Central Innovation Cluster), National Research Foundation
10:00am	Overview of UK Research and Innovation Ecosystem by Hanbin Zheng, Head of Science & Innovation Network, British High Commission
10:10am	Overview of Singapore Innovation Ecosystem by Jacqueline Chia, Deputy Director for Innovation Ecosystem Development, Enterprise Singapore
10:20am	Managing IP in the Innovation Ecosystem by Christabel Koh, Regional IP Business & Trade Advisor for SE Asia, British High Commission
10:30am	Concluding Remarks by Hugh Edmiston

Notes:

- This event is exclusive for participants and invited guests only. Kindly arrive early for registration.
- This is a non-smoking event.
- There is limited parking on the premises. Alternative modes of transport include taxis or private hire cars (drop off at SMU Administration Building, 81 Victoria Street, Singapore 188065), MRT or buses.
- Your attendance at this event conveys consent to having your photos displayed on various social, digital and media channels of the UK-Singapore Universities Alliance for Entrepreneurship & Innovation and member universities.

APPENDIX F: Detailed Programme Itinerary for UKSAEI Symposium 2022 Gala Dinner

Thursday, 15 December 2022

7:00pm to 9:30pm

Grand Shanghai Restaurant, 390 Havelock Road, King's Centre, Level 1, Singapore 169662

Dress Code: Business Casual

Time	Programme
7:00pm	Arrival of Guests
7:15pm	Remarks by Michael Yap, Regional Managing Director for Coventry University Singapore Hub and UKSAEI Chairperson
7:25pm	Dinner Commences
8:00pm	Closing Video
9:30pm	Event Ends

Notes:

- This event is exclusive for participants and invited guests only.
- This is a non-smoking event.
- Your attendance at this event conveys consent to having your photos displayed on various social, digital and media channels of the UK-Singapore Universities Alliance for Entrepreneurship & Innovation and member universities.

APPENDIX G: Detailed Programme Itinerary for UKSAEI Hackathon & Closing Ceremony

Friday, 16 December 2022

9:30am to 1:30pm

NTU@one-north, Auditorium, 11 Slim Barracks Rise, Singapore 138664

Dress Code: Business Casual

Time	Programme
8:30am	Arrival of Student Teams
9:00am	Arrival of Guests and Registration/ Morning Coffee & Tea Reception
9:25am	Delegates Seated
9:30am	Arrival of Panel of Judges
9:35am	Welcome Remarks by Michael Yap, Regional Managing Director for Coventry University Singapore Hub and UKSAEI Chairperson
9:40am	Introduction of Panel of Judges
9:50am	Introduction of Hackathon Challenge Statement / Judging Criteria
10:00am	Team 1 - Presentation and Q&A (10 min pitch and 5 min Q&A)
10:15am	Team 2 - Presentation and Q&A
10:30am	Team 3 - Presentation and Q&A
10:45am	Team 4 - Presentation and Q&A
11:00am	Team 5- Presentation and Q&A
11:15am	Team 6 - Presentation and Q&A
11:30am	Judges' Deliberation/ Presentation by Sponsor(s)
12:00pm	Certificates & Prize Presentation
12:20pm	Lunch and Networking
1:30pm onwards	Event ends

Notes:

- This event is exclusive for participants and invited guests only.
- Your attendance at this event conveys consent to having your photos displayed on various social, digital and media channels of the UK-Singapore Universities Alliance for Entrepreneurship & Innovation and member universities.