Risk Assessment							
College/ PSU	Swansea University FSE	Assessment Date	10/02/25				
Location	Festival of Tomorrow, Swindon	Assessor	Robert Gibbs				
Activity	Materials Made Smarter Outreach Demonstration	Review Date (if					
		applicable)					
Associated	 https://discovermaterials.co.uk/resource/bottle- 	-					
documents	can-or-coffee-cup/						

Part 1: Risk Assessment

This risk assessment is specific just to the MMSC Demonstration activity and is to be considered supplemental to the overall event and demonstrator risk assessments

What are the hazards?	Who might be harmed?	How could they be harmed?	What are you already doing?	S	L	Risk (SxL)	Do you need to do anything else to manage this risk?
Risk of power damage	Small low- power computer system	Device needs to be powered correctly in accordance with instructions	Correct power supplies are provided as part of the equipment. Power cords need to be connected to correct port on system. Stickers have been placed over any unused ports	3	2	6	Only authorised personel to set up the equipment and only in accordance with instructions
Risk of liquid spillage	Small low- power computer system	Device needs to be protected from fluid damage	Avoid any food and drink near the equipment	3	3	9	Keep equipment away from food and drink
Injury due to equipment falling	Users	If the monitor or photobox falls or is knocked off the table and it impacts a user then minor injury could occur	Equipment secure on a table. Keep all cables tidied away to avoid entanglement	2	3	6	Control environment around the demonstration and ensure that not too large a group are surrounding the equipment.
Musculoskeletal Discomfort	Users	Repeated operations with the monitor and the included	Ensure that the quipment is setup in a comfortable and non-confined manner so	2	4	8	Take regular breaks from operating the demonstration, facilitated by

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		keyboard and mouse may lead to RSI	that prolonged use does not cause injury				occasional restarts of the machine
Injury from the objects being investigated	Users	The empty cans and bottles could cause minor injury if not handled sensibly	The objects (plastic bottle, drink can, paper coffee cup) are all empty to avoid eccessive bulk and the possiblily of spillage. The objects are to be handled by participants under supervision to ensure they do not cause harm, or are damaged.	2	3	6	The top of the drinks cans are open and so could pose a sharp edge risk. Strong gaffer tape stuck to the top of the cans will prevent fingers being inserted in the sharp holes.
Electrical power supply	venue	The equipment is powered by a 4-gang extension lead with 4 individual low power 5v usb power supplies attached so that the equipment only needs one 240v electrical outlet socket without issue. However, this needs to be safely available.	The equipment is low powered and is designed to require only one 240v electrical outlet socket, but this needs to be safely available to the equipment without causing a problem to the event.	2	3	6	The equipment is designed to require only 1 electrical socket.
Bright light	User	Some people may be sensitive to the intensity of the light used to illuminate the photo box	The intensity of the light is adjustable, and can even be turned off if a particular user requires it.	1	2	2	Only turn the light on when a demonstration requires it

Appendix 1. Risk Matrix

		Consequences						
		1 Insignificant No injuries/ minimal financial loss	2 Minor First aid treatment/ medium financial loss	3 Moderate Medical treatment/high financial loss	4 Major Hospitalised/ large financial loss	5 Catastrophic Death/ Massive Finanical Loss		
Likelihood	5 Almost Certain Often occurs/ once a week	5 Moderate	10 High	15 High	20 Catastrophic	25 Catastrophic		
	4 Likely Could easily happen/ once a week	4 Moderate	8 Moderate	12 High	16 Catastrophic	20 Catastrophic		
	3 Possible Could happen/ happen once a year	3 Low	6 Moderate	9 Moderate	12 High	15 High		
	2 Unlikely Hasn't' yet happened but could happen	2 Low	4 Moderate	6 Moderate	8 High	10 High		
	1 Rare Concievable but 1/100 year event	1 Low	2 Low	3 Low	4 Moderate	5 Moderate		