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	Overview	
<ul> <li>Research partr</li> <li>Context &amp; Outl</li> <li>Research aim</li> <li>Study area – H</li> <li>Pedestrian Eva</li> <li>Guidelines and</li> <li>KX Pedestrian</li> <li>Inner workings</li> <li>Demo</li> <li>Future Work</li> </ul>	ners ine King's Cross acuation Software A d Evaluation Evacuation Model	pplications
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	Context	
<ul> <li>Why (at project</li> <li>1) Tokyo (1995)</li> <li>2) Civil Continge</li> <li>3) Credible threat</li> <li>London - July</li> <li>56 Fatalities,</li> <li>KX Redevelop</li> <li>Underground</li> <li>2012 Olympic</li> </ul>	ct inception)? , 9/11(2001), Bali (2002 ency Act 2004 at - Tony Blair, Ken Livi 2005 ~ 700 injured oment station cs - 60% increase in pa	2), Madrid (2004) ingstone,
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Enclosu	re Rej	ores	sen	nta	tio	n		
	Nationality	Conder	Br	eadth (e	:m)	Depth (cm)		
	reactonancy	Genuer	5th	50th	95th	5 <sup>th</sup>	50th	95th
()	British	Male	42.0	46.5	51.0	21.5	25.0	28.5
$\sum (i)$	Diffian	Female	35.5	39.5	43.5	21.0	25.0	29.5
~ 18	Swedish	Male	42.0	46.5	51.0	18.5	22.0	25.5
	D WC GIDII	Female	35.5	39.0	42.5	18.5	24.1	30.0
	Dutch	Male	43.0	47.5	52.0	24.0	28.5	33.0
	Dation	Female	35.5	40.0	44.5	23.0	29.0	35.0
	French	Male	42.5	47.0	51.5	21.0	24.5	28.0
	Prench	Female	38.0	42.5	47.0	20.5	25.0	29.5
	Deligh	Male	40.5	44.0	47.5	21.5	24.5	27.5
	1 OHSH	Female	35.0	38.0	41.0	20.5	24.5	28.5
	USA	Male	42.5	47.0	51.5	22.0	25.5	29.0
9°		Female	36.0	40.0	44.0	21.0	25.5	30.0
	Brazilian	Male	40.0	44.5	49.0	20.5	23.5	27.5
	15. azırları	Female	-	-	-	-	-	-
11	Sri Lankan	Male	33.0	37.0	40.0	14.5	17.0	20.5
	STEDAIKAII	Female	30.0	30.0	36.0	13.0	17.0	21.0
1/	Indian	Male	37.5	41.0	44.0	14.5	17.0	20.5
	aronal.	Female	-	-	-	-	-	-
	Hong Kong	Male	38.0	42.5	47.0	15.5	19.5	23.5
	Chinese	Female	33.5	38.5	43.5	16.0	21.5	27.0
	Tananese	Male	40.5	44.0	47.5	18.0	20.5	23.0
	Japanese	Fernale	36.5	39.5	42.5	17.5	20.5	23.5



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<b>Occupant Movement</b>	
<ul> <li>Speed of Occupant Movement</li> <li>Flow / Hydraulic Equation</li> <li>Pedestrian Speed of Movement Data <ul> <li>Secondary):</li> <li>Hankin and Wright (1958)</li> <li>Fruin (1971)</li> <li>Predtechenskii and Milinskii (1978)</li> <li>Ando <i>et al.</i> (1988)</li> <li>Pauls (1995)</li> <li>Nelson and Mowrer (2002),</li> <li>Etc</li> </ul> </li> </ul>	
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	Future Work	
• K _ _ _ _	<ul> <li>X Pedestrian Evacuation Model – To Speed as a function of:</li> <li>Density</li> <li>Age</li> <li>Gender</li> <li>Over taking</li> <li>Pre-evacuation time</li> <li>Cost surfaces</li> <li>Distance transform 5x5, 10x10, 25x25(de smith, 20)</li> <li>Top down vs bottom up</li> <li>Etc</li> </ul>	do 004)
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	Thank You				
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