









Previous Work									
Natural Frequency Values									
Vertical mode number	3D plate model Hz	3D box model Hz	Measured Hz	Current work Hz					
1	0.107	0.108	0.116 (0.104)	0.116					
2	0.113	0.116	0.154 (0.107)						
3	0.164	0.169	0.177						
4	0.202	0.207	0.218						
5	0.236	0.241	0.240						
6	0.304	0.314	0.310						
7	0.306	0.316	0.317						
Lateral mode									
number									
1	0.052	0.054	0.056	0.052					
2	0.110	0.119	0.143						
3	0.159	0.178	0.218						
4	0.195	0.225	0.239						
5	0.230	0.232	0.239						
6	0.239	0.243	0.260						
7	0.255	0.262	0.276						

Single v Dual Freq	The University of Nottingham
Single Frequency cheaper	
OTF search longer	
 Special searches developed dependence bridge type and size 	pending on
FIG Working Week, Athens, 25 May 2004	

Single v Dual Freq 👔 The University of Nottingham						
	Standard Deviations (m)					
	East	North	Height			
Single Frequency	0.0054	0.0076	0.0120			
Dual Frequency	0.0053	0.0077	0.0118			
FIG Working Week, Athens, 25 May 2004						











3 Working Week, Athens, 25 May 2004



- A simulator was also developed to evaluate the improvement in augmented satellite geometry and compared with real data
- Three ground-based pseudolites were employed in a suspension bridge trial in Nottingham

Short Bridge The University of Nottingham











