

# *Network Innovation Competition Full Submission*

## *Supplementary Answer Form*

Tick if this answer is Confidential: ☐

Tick if this answer has been provided verbally: ☐

Project code:	SGN_GN_01	Question Number	2
Question date	15 <sup>th</sup> August 2013	Answer date	19 <sup>th</sup> August 2013
Submission section question relates to	Section 2		
Topic	Data acquisition to inform mains risk management		
Question	Please explain how it is intended that the development of alternative methods of risk reduction and alternative risk removal techniques will be achieved as a result of data acquired through deployment of the robotic capability.		
Notes on question			
Answer	<p>Our (GB GDNs) current risk model is a statistical representation of risk based on; core asset information (material, diameter, age etc); the leakage history of the asset and those around it; the asset's environment and the potential consequences of failure. The inspection module will add additional empirical data in relation to the asset's health.</p> <p>We intend to explore all possible options for sensor incorporation into the inspection module to enable this data acquisition. This will include (but not be limited to) analysis of visual, aural, electromagnetic and laser based sensors.</p> <p>Given that the basis of all our risk methodology is around the control of leaking gas and the potential for it to leak from the network, positive affirmation of leaks (which may not manifest as Publicly reportable) and of actual stress points on an assets which lead to fracture will give an objective view of risk. This information can be combined with the currently used information to give a more accurate view of what is actually happening to an asset and what actions should be taken regarding it.</p>		

Attachments	
Verbal Clarifications  (Consultants )	