

Electricity Network Innovation Competition Full Submission
Supplementary Answer Form

Project: WPD Telecoms Templates for a Low Carbon Future

Tick if this answer has been provided verbally: ☐

Project code	WPDNIC001	Question Number	Q3
Question date	08 th September 2015	Answer date	11 th September 2015
Submission section question relates to	Appendices 2, 10		
Topic	Technologies		
Question	Please give examples of the types of technologies you anticipate will be deployed? On what basis have you made this selection?		
Notes on question			
Answer	<p>The Trial Matrix diagram provided as Figure 2.1 on page 55 of the Full Submission Pro-Forma (FSP) illustrates the breadth of technologies anticipated for consideration in the Telecoms Templates project at this time. The matrix is reproduced below for your convenience. Some examples of the technologies that will be trialed are; Powerline Carrier (PLC), MiMomax radio and VHF radio technologies among others at this stage because they have direct application within power distribution networks and have as yet not been fully evaluated methodically. However further technologies will need to be defined through the Global Appraisal process – there are certainly no shortage of candidate technologies and services available.</p> <p>Therefore, the trial matrix shown in figure 2.1 of the FSP can be developed, to represent, at high level, the breadth of demographic reach and scope of application types to be delivered. Within this the wide ranging telecoms technologies and services can be mapped. Some of the technologies noted within figure 2.1 are already familiar to the DNO's including optical fibre and</p>		

various private and public radio systems, although how these can scale to meet the needs of the developing Smart Grid applications is something that still needs to be investigated, hence these will be included as candidates within the project. Other technologies such as satellite links, mesh networks and emerging 3rd party service offerings have been used to limited degrees, but without rigorous evaluation or performance monitoring, Telecoms Templates will therefore include these techniques among its candidates.

It should be noted that the technologies in the matrix are an initial view of the DNO requirements, therefore anticipated to be included within the trial. However the far Global Appraisal method, covering pertinent GB, European and Global telecoms applications will capture any other technologies/ services available at this time (1st half 2016), post-analysis of their application with BAU and Smart Grid applications around the world.

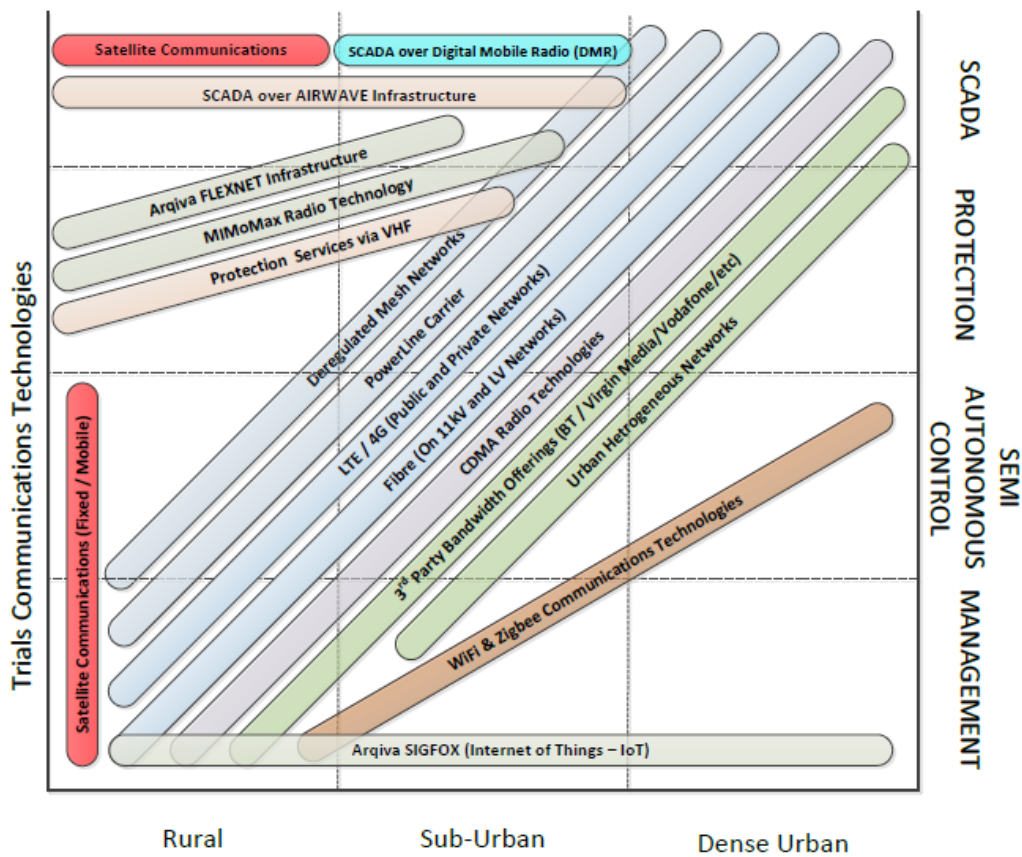


Figure 2.1. Trial Matrix Diagram

Attachments	
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