

Date

Tuesday 17 July 2007

Title of session

Workshop 5 - Reference Frameworks and Active Networks

Name of presenter/chair

Chair: Neil Ackroyd, Director of Data Collection and Management, Ordnance Survey

Presenter: Paul Cruddace, Geodetic Adviser, Ordnance Survey

Rapporteurs

Jenny Harding, Ordnance Survey and Nicholas Hutchings, Defence Geographic Centre

Presentation title: The role of a national active GNSS network.

The presentation closely followed 17 PowerPoint slides.

Mr Cruddace described the reasoning behind the set up of the GPS network, OS Net, in Great Britain; an interesting comparison with the smaller systems earlier described for Singapore and Trinidad & Tobago. Roughly one hundred GNSS stations are in place, with just five more planned for Scotland and the Isles of Scilly to provide full national coverage. Principal contractors are Leica and Trimble. From the network, Ordnance Survey generates correction services for its surveyors who use RTK positioning. Part of this service involves developing transformations for GPS data use. Ordnance Survey provides access to raw OS Net data for partners to add value and serve other markets.

The network is increasingly used for a variety of applications well beyond traditional land surveying. Examples include road and air navigation, meteorology and oceanography. There are other markets that Ordnance Survey and its partners don't yet reach, for example port operations and agriculture.

Questions	Answers
Trevor Shaw (National Land Agency, Jamaica) asked, what was the precision of OS transformation.	Paul Cruddace gave the answer of 20cm to one standard deviation.
Kamil Eren (Saudi Arabia) asked how many field surveyors were employed by Ordnance Survey and has this figure recently gone up or down?	Neil Ackroyd answered that productivity of field surveyors had gone up almost three times since the advent of GPS. Combined with improved management practices, this had led to a fall in the number of surveyors but not by such a large proportion. The figure is now 300 and this is not expected to change significantly as the demand for work had increased.