

## Concept Note

<b>Title</b>	<b>WINDS Project</b>
<b>Organisation(s):</b>	<b>Japan Aerospace Exploration Agency (JAXA)</b>
<b>Theme:</b>	<b>Theme 5: Emergency Communications and Disaster Relief / Climate Change</b>
<b>Speaking Duration:</b>	<b>15 Minutes</b>
<b>Background and Justification:</b>	<p>The Wideband InterNetworking engineering test and Demonstration Satellite (WINDS) is a research and development satellite to establish the world's most advanced information and telecommunication network. The WINDS was developed jointly by the Japan Aerospace Exploration Agency (JAXA) and the National Institute of Information and Communications Technology (NICT).</p> <p>The satellite is a geostationary Ka-band satellite, capable of providing to the users a super high speed data link requiring only a small dish antenna at the user sites. Its service coverage includes not only Japan but also the Asia-Pacific region.</p> <p>Various research institutes and academic entities have been invited to use the WINDS to conduct experiments, research and develop satellite broadband applications.</p>
<b>Objectives:</b>	<p>During the session, JAXA will present the outline of the WINDS project and the WINDS experiments program, in particular the experiments taking place in the Pacific region, such as the provision of satellite broadband communication to underserved rural areas.</p> <p>JAXA is in the process of identifying potential partners among the Pacific Island countries to conduct trial on high speed data communications to rural areas using Very Small Aperture Terminals (VSAT).</p>
<b>Scope:</b>	
<b>Expected Outcome:</b>	<p>Pacific Island countries partnering with JAXA for the implementation of the above mentioned trial will benefit from the use of the latest satellite technology for high speed data communications. In the short term, this may enable the partners to access critical ICT applications of disaster management support systems such as the Sentinel Asia. In the medium term the technologies developed by the WINDS project may be the key elements in the satellite communications system for the provision of connectivity to underserved Pacific Islands.</p>

<b>Potential Partners:</b>	Potential partners will be evaluated by considering their interest in cooperation with JAXA for the implementation of the trial in areas including, but not limited to, the designation of technical focal points to conduct preparation works, the identification of target users, and the availability of radio licenses, physical space, and electricity.
<b>Project Timescale:</b>	The WINDS has been operational since it was launched from Tanegashima Space Center on 23rd February, 2008, and since then, its high speed data communications capabilities have been confirmed
<b>Budget (optional):</b>	