

## A Trial Satellite-Based Augmentation System (SBAS) for Australia

### Overview:

A Satellite-Based Augmentation System (SBAS) utilises space-based and ground-based infrastructure to improve the accuracy, integrity and availability of basic Global Navigation Satellite System (GNSS) signals, such as those currently provided by the Global Positioning System (GPS). SBAS already developed internationally include WAAS in the United States and EGNOS in Europe. A SBAS has not been previously tested in Australia or New Zealand, although the technology is employed in countries around the world, including the United States, Europe, China, Russia, India and Japan. This test-bed will assess the application of SBAS technology and its safety, productivity, efficiency and innovation benefits to Australian and New Zealand industry and research sectors. Testing will occur over two years and will evaluate the effectiveness and application of SBAS in nine main sectors: agriculture, aviation, construction, maritime, mining, rail, road, spatial, and utilities. The test-bed will address the specific requirements (including accuracy, integrity, availability) in applications areas in each of these industry sectors. The SBAS test-bed will be delivered by a consortium including Geoscience Australia, Land Information New Zealand (LINZ), Lockheed Martin, GMV, Inmarsat and the Cooperative Research Centre for Spatial Information (CRCSI).