

Developing Australia's National Positioning Infrastructure - what does this mean for CTF?

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A new era of satellite-based positioning has arrived with the entry of multiple Global Navigation Satellite Systems (i.e. in addition to GPS) to support growing markets for accurate and timely location information. Recognising the social and economic value that Australia's positioning infrastructure generates across multiple sectors of the economy, Geoscience Australia's National Positioning Infrastructure (NPI) project offers a modern and pragmatic approach to coordinating access to existing and future PNT resources across the country. Preparing Australia's NPI to encourage market growth and further stimulate our competitive advantage in industries such as agriculture is in the national interest.

The agriculture sector is one of many diverse user groups of PNT technologies, but one of few early adopters with the community and scope to exercise long-term leadership to encourage planning, increased user uptake, commercial innovation, government and industry engagement, and increased confidence in modern positioning technologies. From the coordinate frameworks used to record position information, to the multitude of space-based and ground-based technologies that produce and deliver this information, the NPI will address technical, institutional and economic challenges for agreeing and delivering performance expectations. Recognising the importance of data availability, continuity and integrity, the NPI vision of ensuring access to accurate and reliable PNT information anytime and anywhere will further stimulate downstream commercial development of turn-key solutions for applications such as CTF.

This presentation explores the opportunities and challenges of coordinating a standardised and seamless high precision positioning framework across Australia and its maritime jurisdictions, to investigate how the NPI will support key industries such as those engaged in CTF.