




Speech By
Joan Pease

MEMBER FOR LYTTON

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NATURAL RESOURCES AND OTHER LEGISLATION (GDA2020) AMENDMENT BILL

 **Ms PEASE** (Lytton—ALP) (5.41 pm): I rise today to speak to the Natural Resources and Other Legislation (GDA2020) Amendment Bill 2019. Queensland is on the move, and not just in jobs and economic growth. This bill will change the reference frame for location information used in natural resources and transport legislation. To accurately locate a position, a reference framework or datum and a coordination system—latitude and longitudes—are required. A datum is a tool used to define the shape and size of the earth and provide the reference point for the coordination systems which map the earth.

Datum are used where people rely on location information, for example in surveying, cartography, geology, navigation and astronomy. Due to the continental drift and technological advancements, it is necessary to update the datum from time to time. Currently we use GDA94 coordinates which tell us where things are in Australia, but these coordinates locate features as if the location of our continental tectonic plate were fixed in 1994. But our tectonic plate moves about seven centimetres per year. Carole King got it right when she sang about feeling the earth move!

Global satellite positioning systems have a coordinate framework fixed to the centre of the earth rather than our tectonic plate. These systems regularly adjust to account for plate movement. However, the difference between Australia's current geocentric datum and global positioning systems will soon be obvious—even to smartphone users—so they need to be aligned.

This bill is to support the adoption of the Geocentric Datum of Australia 2020 in Queensland legislation and will make minor amendments to the Land Act 1994, the Land Title Act 1994, South Bank Corporation Act 1989 and the Cape York Peninsula Heritage Act 2007. This bill will help us catch up, so we can get to the right place that we want to go because the earth's crust has moved. Perhaps that will help opposition leader member for Nanango when she is looking for Rheinmetall next time! Probably not!

We rely on location information in many ways—from getting to places using our smartphones to running automated technology remotely, such as driverless cars and tractors, mining equipment and drones. For example, in my electorate of Lytton, operators at the Port of Brisbane use driverless cranes to load and unload containers and this technology relies on GPS. As part of the latest round of updates, Queensland is working with other Australian governments to pair up national coordinates with global positioning systems. New Zealand will also update its data. Queensland's business systems, laws, data and processes need to be geared and ready for GDA2020.

Updating to GDA2020 will benefit businesses in construction, agriculture, insurance, emergency services, mapping, surveying, transport, tourism, environmental management, scientific research, automation, telecommunications and entertainment. We are working closely with the spatial information sector to transition systems, data and processes so they are ready to adopt GDA2020 by 30 June 2020.

The Natural Resources and Other Legislation (GDA2020) Amendment Bill 2019 was referred to the State Development, Natural Resources and Agricultural Industry Development Committee for consideration on the 23 October 2019, with the committee required to report by 6 December 2019. The committee invited stakeholders and subscribers for submissions. Three were received. I thank the committee for their work. I commend the Natural Resources and Other Legislation (GDA2020) Amendment Bill 2019 to the House.