

Nation Building Program Major Road Projects

Project Name	Proponent	Total Project Cost	Australian Government Contribution	Construction/ Construction/S Study Start Study End Date		Project Description
				Study Start	Study End Date	
Northern Link tunnel	Brisbane City Council	\$1,536,000,000	\$500,000,000	1/01/11	Early 2015	Legacy way (formerly Northern Link) is a toll road tunnel, approximately five kilometers in length, which links the Western Freeway, at Toowoong, to the Inner City Bypass, at Kelvin Grove. The project is being undertaken by the Brisbane City Council. The tunnel will run under the suburbs of Toowoong, Auchterflower, Paddington, Red Hill, Spring Hill and Kelvin Grove. Reconstruct and widen a minimum of 70 km of Eyre Highway between 45 and 250 kms east of Norseman.
Accelerated Eyre Highway Upgrade Package	Commissioner of Main Roads	\$64,651,625	\$64,651,625	1/10/06	1/01/08	
Accelerated Great Northern Highway Upgrade Package	Commissioner of Main Roads	\$241,548,375	\$241,548,375	1/06/06	1/12/10	Reconstruct and upgrade 30km of Great Northern Highway between Bindoon Hill and New Norcia, including realignments at Longbridge Gully, Hay Flat Road and Seven Mile Hill.
Bunbury Port Access Road (Stage 2) and Bunbury Outer Ring Road (Stage 1)	Commissioner of Main Roads	\$130,220,000	\$118,630,000	1/02/12	Mid 2013	Construction of the Bunbury Port Access Road (Stage 2) and Bunbury Outer Ring Road (Stage 1)
Dampier Highway duplication, Broadhurst Road to Dampier	Commissioner of Main Roads	\$123,400,000	\$91,700,000	1/07/09	1/01/13	The project involved the duplication of the Dampier Highway between Karratha and Dampier. The Dampier Highway provides access to Dampier Port (one of the busiest ports in Australia) and to the Burrup Peninsula, the site of a number of significant industrial developments. With the significant growth of resource export operations in the Pilbara in recent years, traffic on the highway had increased significantly, resulting in congestion and a reduction in safety.
Gateway WA Perth Airport and Freight Access	Commissioner of Main Roads	\$388,560,000	\$198,830,000	1/04/13	Mid 2017	Planning, early works and preconstruction for the upgrade of roads in the vicinity of Perth Airport, comprising: - Tonkin Highway and Leach Highway interchange; - Tonkin Highway and Horrie Miller Drive / Kewdale Road interchange; - Leach Highway and Abernethy Road interchange; - upgrade of the Tonkin Highway and Roe Highway interchange; - widening the Tonkin Highway between the Leach and Roe highways to six lanes; - upgrading the Leach Highway to expressway standard between the Tonkin Highway and Orrong Road; - local road modifications in Kewdale to accommodate the Leach Highway upgrade; - associated noise mitigation, cyclist and pedestrian facilities and Intelligent Transport Systems (ITS) infrastructure.
Gateway WA Perth Airport and Freight Access	Commissioner of Main Roads	\$600,000,000	\$480,000,000	1/04/13	Mid 2017	The project involves a significant upgrade of the road network around Perth Airport. The components of the project are: • A freeway to freeway interchange at the intersection of the Tonkin and Leach highways, including a new access point to Perth Airport; • An interchange at the intersection of the Tonkin Highway, Horrie Miller Drive and Kewdale Road; • An interchange at the intersection of the Leach Highway and Abernethy Road; • An upgrade of the Tonkin Highway and Roe Highway interchange; • Upgrade and widening from four to six lanes of the Tonkin Highway between the Great Eastern and Roe highways; • An upgrade of the Leach Highway to expressway standard between the Tonkin Highway and Orrong Road; • Modifications to the local road network in Kewdale to accommodate the upgrade of the Leach Highway to a controlled access expressway; and • A new on-ramp from Abernethy Road on to the southbound lanes of the Tonkin Highway. The project will also include associated noise mitigation, cycling and pedestrian facilities and Intelligent Transport Systems (ITS) infrastructure.
Great Eastern and Roe Highway Interchange	Commissioner of Main Roads	\$101,500,000	\$68,750,000	1/11/10	1/06/12	The project involved the grade separation of the intersection of the Great Eastern Highway and the Roe Highway in the north eastern suburbs of Perth. The intersection is the junction of two major freight routes linking Fremantle Port, Perth Airport and major industrial and commercial centres to the Great Eastern and Great Northern highways. The intersection experiences significant congestion and has a poor safety record.
Great Eastern Highway Upgrade, Kooyong Road to Tonkin Highway	Commissioner of Main Roads	\$280,000,000	\$224,000,000	1/06/11	1/03/13	The Great Eastern Highway between Kooyong Road and the Tonkin Highway will be upgraded to a six lane dual carriageway with a central median. The project will also include on-road cycle lanes, a continuous pedestrian path and bus priority at signalised intersections.

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Great Northern Highway - Muchea to Wubin upgrading	Commissioner of Main Roads	\$52,500,000	\$52,500,000	1/02/07	1/06/10	This package of works included intersection improvements, widening, passing lanes, and reconstruction and realignment of various sections between Muchea and Wubin. The project complements additional funding provided under the Great Northern and Victoria Highways Accelerated Upgrade Package for the Bindoon to New Norcia section of the highway.
Improved Access to Esperance Port	Commissioner of Main Roads	\$120,000,000	\$60,000,000	1/08/12	Late 2013	The project involves constructing a series of road and rail improvements to improve access to Esperance Port. The project includes realignment of the road and rail routes to the port, construction of two local road bridges over the road and rail line, closure of two level crossings, asphalt resurfacing and noise mitigation treatments.
Mandurah Entrance Road	Commissioner of Main Roads	\$155,000,000	\$77,500,000	1/09/09	1/10/10	The project involved the construction of a new road and associated intersections between the Kwinana Freeway Extension - Forrest Highway (the New Perth Bunbury Highway) and Mandurah, including an interchange with the Kwinana Freeway Extension.
New Perth-Bunbury Highway upgrade:	Commissioner of Main Roads	\$705,000,000	\$330,000,000	1/12/06	1/09/09	The New Perth Bunbury Highway (Kwinana Freeway Extension - Forrest Highway) project involved the construction of a 70.5 kilometre four-lane dual carriageway from the previous southern end of the Kwinana Freeway at Safety Bay Road to join the Old Coast Road near Lake Clifton. The new highway was constructed to a freeway standard from Safety Bay Road to Pinjarra Road (Kwinana Freeway Extension) with the remainder of the route being built as a rural highway (Forrest Highway). Interchanges have been constructed at Safety Bay Road, Karnup Road, Paganoni Road, Lakes Road, Mandurah Entrance Road and Pinjarra Road. Intersections have been constructed at Beecham Road, Greenlands Road, Paull Road, Mills Road, Herron Point Road, Old Bunbury Road, Dorsett Road and Old Coast Road. Bridges have been built to carry the new highway over the Serpentine River, Nambelup Brook, Murray River / Pinjarra Road, South Yunderup Road, Murray River floodplain, Harvey River and a number of Water Corporation drains. A bridge has been built over the highway at Red Road.
Port Hedland Improvements Project (Stage 2 - Realignment of Great Northern Highway)	Commissioner of Main Roads	\$262,300,000	\$191,200,000	1/11/12	Mid 2014	The realignment of Great Northern Highway from south of Wedgefield around the west and north of the Wedgefield industrial area and back to the existing Great Northern Highway and Port Hedland Road intersection.
Accelerated East Tamar Highway Upgrade Package	Department of Infrastructure, Energy and Resources	\$81,510,000	\$60,000,000	1/02/07	1/06/11	This project provides a major upgrade of the East Tamar Highway between Launceston and Bell Bay. The upgrade was delivered in a number of sub-projects and scope of works included: <ul style="list-style-type: none"> - traffic flow improvements within Launceston from the Esplanade north to Forster Street; - bypass of Dilston along a new eastern alignment; - grade separation of the Batman Highway junction; - pavement strengthening and widening along various sections; - shoulder sealing along various sections; and - safety facility improvements along the entire route including installation of safety fences, improved delineation and signage, minor junction improvements and the removal of hazards. Works have been undertaken progressively since February 2007 and were finalised in December 2009. The only exception is the Dilston Bypass which was completed in June 2011.
Midland Highway - Brighton Bypass	Department of Infrastructure, Energy and Resources	\$191,000,000	\$186,200,000	1/05/09	1/11/12	The bypass around Brighton is a 9.5km four lane dual carriageway extending from the roundabout at the junction of the Midland and East Derwent Highways, to the northern side of Pontville.
Accelerated Sturt Highway Upgrade Package	Department of Planning, Transport and Infrastructure	\$100,000,000	\$100,000,000	1/08/07	1/12/10	Duplication of the road from Argent Road to Seppeltsfield Road, a length of approximately 17 km

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Northern Expressway	Department of Planning, Transport and Infrastructure	\$564,000,000	\$451,200,000	1/02/08	1/09/10	The project involved: - the construction of a new, two-way expressway standard road between Gawler and Port Wakefield Road (23 kilometres); and - an upgrade of Port Wakefield Road from north of Taylor Road to the Salisbury Highway (11.5 kilometres). - Key features of the project between Gawler and Port Wakefield Road included: - four lane, two-way expressway with divided roadway; - speed limit of 110 kilometres per hour; - full speed connection at Gawler, linking with the Gawler by-pass; - entry to the expressway via interchanges;
South Road Upgrade - South Road Superway	Department of Planning, Transport and Infrastructure	\$812,000,000	\$406,000,000	1/04/10	Late 2013	The Australian Government has committed \$500 million to upgrade South Road in Adelaide. The Australian Government has committed funding to both planning studies and package works to deliver the first stage of a non-stop, north-south motorway between the Port River Expressway and the Southern Expressway along South Road. This project is the first construction project for the South Road - Package Works. It involves the upgrade of South Road between the Port River Expressway and Regency Road. The South Road Superway includes the creation of a 4.8 kilometre non-stop, north-south transport corridor between the Port River Expressway and Regency Road. It includes construction of a 2.8 kilometre elevated roadway; an at-grade service road along the majority of the corridor; and accessibility improvements for the local road network within the project area.
Majura Parkway	Department of Territory & Municipal Services	\$288,000,000	\$144,000,000	1/02/13	Mid 2015	This project involves the construction of a dual carriageway four lane road linking the Federal Highway with the Monaro Highway.
Calder Hwy - Faraday to Ravenswood Duplication	Department of Transport (VIC)	\$219,200,000	\$109,600,000	1/10/06	1/04/09	Calder Highway - Faraday to Ravenswood Duplication
Calder Hwy - Upgrading works between Faraday & Kyneton.	Department of Transport (VIC)	\$181,200,000	\$90,600,000	1/11/05	1/04/09	Upgrading works between Faraday & Kyneton.
Deer Park Bypass and Leakes Road Interchange	Department of Transport (VIC)	\$331,000,000	\$265,000,000	1/08/06	1/04/09	The 9.3km Deer Park Bypass will consist of a four lane freeway, running south-east from the Western Freeway west of Deer Park and linking with the Western Ring Road at Fitzgerald Road. The Leakes Road Interchange will be a spread diamond interchange prov
Duplication of the Princes Highway from Waurm Ponds to Winchelsea	Department of Transport (VIC)	\$171,000,000	\$85,500,000	1/09/10	Mid 2015	This project involves the construction of a four lane, dual carriageway between Draytons Road at Waurm Ponds and Winchelsea-Deans Marsh Road at Winchelsea, a distance of approximately 25 kilometres.
Geelong Ring Road Stage 4A	Department of Transport (VIC)	\$125,000,000	\$62,500,000	1/03/09	1/12/11	This project involves the construction of 2.5 kilometres of four lane, dual carriageway freeway from the Geelong Ring Road at Princes Highway to Anglesea Road terminating at Hams Road.
Metropolitan Ring Road Upgrade - Edgars Road to Plenty Road	Department of Transport (VIC)	\$150,000,000	\$75,790,000	1/12/11	Mid 2014	The 10 kilometre Metropolitan Ring Road, together with the 28 kilometre Western Ring Road, combine to form the M80 Ring Road. This project involves: - Widening of the main carriageway and shoulders in both directions to 3 through lanes and additional lanes between interchanges; - Upgrade of 3 interchanges which include lane lengthening of entry and exit ramps, increased storage of lanes and additional turning lanes; - Upgrade of Plenty Road interchange on and off structure barriers; - Installation of Freeway Management System; - Bridge widening and strengthening to accommodate High Productivity Freight Vehicles; - Upgrading of bridge barriers to appropriate performance level; - Reinstatement of noise attenuation and shared user path impacted by widening works; and - Landscaping.
Nagambie Bypass (Goulburn Valley Highway)	Department of Transport (VIC)	\$188,700,000	\$150,960,000	1/12/09	1/12/12	This project involves the construction of the Nagambie Bypass on the Goulburn Valley Highway and a minor upgrade of a truck parking area south of the Bypass. The 17 kilometre Nagambie Bypass will be constructed in two sections: - Northern Section - Duplication of 3.5 kilometres of the existing Goulburn Valley Highway between Kirwans Bridge - Longwood Road and Weir Road; and - Main Bypass Section - Construction of a new 13.5 kilometre freeway-standard road to the east of Nagambie.

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Princes Highway - Geelong Bypass	Department of Transport (VIC)	\$380,000,000	\$186,000,000	1/02/06	1/06/09	Princes Highway - Geelong Bypass. Construction of: Section 1 - Princes Highway, Corio to Midland Highway, Bell Post Hill; Section 2 - Midland Highway, Bell Post Hill to Hamilton Highway, Fyansford; and Section 3 - Hamilton Highway, Fyansford to Princes
Princes Highway East (Traralgon to Sale)	Department of Transport (VIC)	\$175,000,000	\$140,000,000	1/02/10	Mid 2016	The project involves duplicating sections of the Princes Highway between Traralgon and Sale to provide two lanes in each direction. This project will complete approximately 22 of the 47 kilometre route (this includes the 4.5 kilometres through Rosedale that is already duplicated). This project will continue beyond the current Nation Building Program.
Springvale - Whitehorse Roads Upgrade Project	Department of Transport (VIC)	\$140,000,000	\$80,000,000	1/07/09	1/01/10	The project involved lowering the Belgrave/Lilydale rail line eight metres below Springvale Road to remove the existing level crossing, and building a new Nunawading railway station.
West Gate Bridge Strengthening	Department of Transport (VIC)	\$347,000,000	\$173,500,000	1/01/09	1/06/11	The strengthening of the West Gate Bridge was undertaken to improve the long term sustainability of the bridge. Works also included safety improvements and increased traffic capacity.
Western Highway - Realignment of Anthony's Cutting between Melton and Bacchus Marsh	Department of Transport (VIC)	\$200,000,000	\$160,000,000	1/02/10	1/06/11	The project involved the construction of a four-lane dual carriageway freeway on a new alignment approximately five kilometres in length from Melton West to the east of Bacchus Marsh. It included freeway bridges spanning Djerrivarrh Creek, Cowans Road and Pyrites Creek as well as two local road overpasses at Bulmans Road and Hopetoun Park Road.
Western Highway Duplication Ballarat to Stawell	Department of Transport (VIC)	\$505,000,000	\$404,000,000	1/04/10	Mid 2015	The project involves the construction of a four lane, two carriageway highway along the existing Western Highway from west of the Sunraysia Highway at Ballarat to Stawell, approximately 110 kilometres in length. This project will duplicate approximately 57 of the 110 kilometres. The project will be broken up into three major sections: - Section 1 - Ballarat to Beaufort - Section 2 - Beaufort to Ararat - Section 3 - Ararat to Stawell - - Depending on the outcome of the continuing planning phase, these sections may be broken up into further sub-projects. The first of these to be identified within Section 1 are: - Section 1a - Ballarat to Burrumbeet (8.1 kilometres in length); - Section 1b - Burrumbeet to Trawalla (23.5 kilometres in length); and - Section 1c - Trawalla to Beaufort (2.9 kilometres in length). - - This project will continue beyond the current Nation Building Program.
Western Ring Road Upgrade	Department of Transport (VIC)	\$980,000,000	\$788,820,000	1/12/08	Mid 2013	The 28 kilometre long Western Ring Road extends from the junction of the Princes and West Gate Freeways, Laverton to Sydney Road (Hume Highway) Fawkner. The Western Ring Road is part of the M80 which also incorporates the 10 kilometre long Metropolitan Ring Road. The Western Ring Road carries up to 142,000 vehicles per day with up to 16% commercial vehicles. A series of capacity and safety improvement works will be undertaken at key locations on the Western Ring Road. This project will continue beyond the current Nation Building Program.
Improve flood immunity, road safety and productivity on Northern Territory highways - National Highways Strengthening and Widening	Northern Territory of Australia	\$63,000,000	\$63,000,000	1/01/10	Mid 2014	The National Highways Strengthening and Widening project is part of the \$160 million Improve Flood Immunity, Road Safety and Productivity on Northern Territory highways project funded under the Australian Government's Nation Building Program. This project aims to strengthen and widen existing pavements that are approaching the end of their economic life on the Stuart, Victoria and Barkly Highways.
Accelerated Bruce Highway Upgrade - Corduroy Creek to Tully High School improvements	Queensland Department of Transport and Main Roads.	\$127,010,000	\$127,010,000	1/10/06	1/02/09	Realignment and upgrading of a 15km section of the Bruce Highway between Corduroy Creek and Tully High School (but excluding a bypass of Tully) to improve flood immunity and road safety, including the Tully River bridge and Murray Flats sections.

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Accelerated Bruce Highway Upgrade Package	Queensland Department of Transport and Main Roads.	\$220,000,000	\$220,000,000	1/08/06	1/12/10	The \$220 million Townsville-Cairns upgrade package comprises a range of smaller works and the planning and delivery of several major initiatives. The package includes pavement rehabilitation, provision of additional overtaking lanes, bridge rehabilitation and intersection improvements as well as significant improvements to flood immunity and safety along the corridor. Major initiatives include: - Flood mitigation works from Tokalon to Lannercost Street (Pound Creek), with work along this section to include installation of traffic signals at McIlwraith and Lannercost Streets; - Mulgrave River (Stage 1) flood improvements; and - Woodlands to Veales Road upgrade.
Bruce Highway - Cardwell Range North Upgrade	Queensland Department of Transport and Main Roads.	\$115,000,000	\$90,000,000	1/07/10	Late 2013	The Bruce Highway on the north side of the Cardwell Range will be realigned (horizontally and vertically). In total 4.15 kilometres of the Bruce Highway will be realigned with an existing overtaking lane extended through the crest of the range and a southbound overtaking lane built. This section of the Bruce Highway is located approximately 15 to 19 kilometres north of Ingham, crosses the Great Northern Railway and provides access to the Hinchinbrook Channel lookout. Traversing the Cardwell Range is one of the driving highlights between Townsville and Cairns with views down and across Hinchinbrook Island and Hinchinbrook Channel.
Bruce Highway - Cooroy to Curra - Planning and Design	Queensland Department of Transport and Main Roads.	\$200,000,000	\$200,000,000	1/07/09	Mid 2014	This project involves planning, design and landowner compensation for the future upgrade of a 65 kilometre section of the Bruce Highway from Cooroy to Curra, including a bypass of Gympie.
Bruce Highway - Cooroy to Curra Section A	Queensland Department of Transport and Main Roads.	\$790,000,000	\$395,000,000	Mid 2013	Late 2016	The Cooroy to Curra Section A project will realign 13.3km of highway from Cooroy Southern Interchange to Sankeys Road. The upgrade features duplication to four lanes, construction of a new grade separated interchange north of Cooroy and new bridges.
Bruce Highway - Cooroy to Curra Section B (Sankeys Road to Traveston Road)	Queensland Department of Transport and Main Roads.	\$488,000,000	\$363,000,000	1/09/09	1/12/12	The Cooroy to Curra Section B project provided a 12 kilometre realignment of the Bruce Highway, between Sankeys Road and Traveston Road, improving the horizontal and vertical geometry of the highway. The upgrade features duplication to four lanes, flood immunity enhancements, a divided carriageway with a wide median and the separation of local and through traffic with limited access.
Cabbage Tree Creek to Carman Road and Back Creek Range Section Upgrade	Queensland Department of Transport and Main Roads.	\$100,000,000	\$100,000,000	1/10/12	Late 2014	This project involves a re-alignment of the Bruce Highway, north of Gin Gin between Cabbage Tree Creek to Carman Road and at Back Creek Range. The improvements will provide an improved alignment with a wider road surface on flatter grades.
Caboiture Motorway: Uhlmann Road to Bribe Island Road	Queensland Department of Transport and Main Roads.	\$145,280,000	\$145,280,000	1/12/07	1/11/09	The project will complete widening of the Bruce Highway (Caboiture Motorway) to six lanes from Brisbane to Caboiture and is progressing in stages northwards from Boundary Road.
Calliope Crossroads	Queensland Department of Transport and Main Roads.	\$150,000,000	\$150,000,000	1/08/12	Mid 2014	This project involves a major upgrade of the Calliope Crossroads intersection to grade separate the Bruce Highway over the Dawson Highway, near Gladstone.
Curra to Sarina - Overtaking Lanes	Queensland Department of Transport and Main Roads.	\$105,000,000	\$105,000,000	1/03/11	Mid 2014	This project involves the construction of up to 25 new overtaking lanes between Curra and Sarina.
Curra to Sarina Section - Black Spots	Queensland Department of Transport and Main Roads.	\$125,803,000	\$125,803,000	1/11/09	Mid 2014	The project involves safety enhancement works at known crash blackspots on the Bruce Highway between Curra and Sarina.
Douglas Arterial Duplication	Queensland Department of Transport and Main Roads.	\$110,000,000	\$55,000,000	1/04/10	1/06/12	The project duplicated the existing two lane Douglas Arterial Road to a four lane motorway standard. The total road length is 5.3 kilometres with the improvements including duplicated bridges over University Creek and the Ross River together with upgraded interchanges at Discovery Drive and Angus Smith Drive and construction of a second carriage way. The Douglas Arterial forms part of the route for the recently opened Townsville Ring Road, a high speed bypass of Townsville constructed with funding jointly provided by the Australian and Queensland governments.

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Gateway Motorway North (Nudgee Road to the Bruce Highway)	Queensland Department of Transport and Main Roads.	\$125,000,000	\$125,000,000	1/03/12	Late 2014	This project will provide funds for planning and land acquisition for the future widening of a 16 kilometre section known as Gateway Motorway North, extending from Nudgee Road (northern end of the Gateway Upgrade Project) to the Gympie Arterial Road junction. The project includes construction of an additional north bound traffic lane between the Sandgate Road interchange and the existing five lane section to the south of the Deagon Deviation.
Gateway Motorway South (Mt. Gravatt-Capalaba Road to the Pacific Motorway)	Queensland Department of Transport and Main Roads.	\$140,000,000	\$70,000,000	1/11/12	Late 2014	This project will provide funds for planning and land acquisition towards the future widening of the Gateway Motorway between Mt. Gravatt - Capalaba Road and the Pacific Motorway and construction works to widen Mt Gravatt-Capalaba Road between Broadwater Road and Gardner Road and to realign and extend the southbound Gateway Motorway on-ramp to the Pacific Motorway. Gateway Motorway South is a 4.5 kilometre section extending from just south of the Logan Road ramps on the Gateway Motorway extension (near the Pacific Motorway) to north of the Mount Gravatt-Capalaba Road interchange.
Goodna Bypass corridor preservation	Queensland Department of Transport and Main Roads.	\$70,000,000	\$70,000,000	1/10/08	1/06/12	This project reserved land along the corridor between Dinmore and Gailes for the possible future construction of the Goodna Bypass.
Interchange at Mains and Kessels Road	Queensland Department of Transport and Main Roads.	\$300,000,000	\$300,000,000	1/11/11	Mid 2014	The Australian Government is providing \$300 million to upgrade the intersection at Mains Road and Kessels Road on the Brisbane Urban Corridor. As part of this upgrade the project will: - Grade separate Kessels Road by constructing a 45 meter underpass; - Increase Mains Road Intersection to six lanes; and - Provide wider lanes, shoulders and verge treatments.
Ipswich Motorway - Dinmore to Goodna (QLD)	Queensland Department of Transport and Main Roads.	\$750,000,000	\$750,000,000	1/06/09	1/05/12	The investment will provide (in total) \$884 million to undertake additional works on the Ipswich Motorway. Funding of \$750 million is required to complete the Ipswich Motorway upgrade between Dinmore and Goodna; \$124 million for Wacol to Darra Stage 2; and \$10 million to support initial planning for an upgrade from Darra to Rocklea.
Ipswich Motorway - Wacol to Darra Stage 2 (QLD)	Queensland Department of Transport and Main Roads.	\$124,000,000	\$124,000,000	1/06/09	1/04/10	The investment will provide, in total, \$884 million to undertake additional works on the Ipswich Motorway. Funding of \$750 million is required to complete the Ipswich Motorway upgrade between Dinmore and Goodna; \$124 million for Wacol to Darra Stage 2; and \$10 million to support initial planning for an upgrade from Darra to Rocklea.
Ipswich Motorway / Logan Motorway interchange	Queensland Department of Transport and Main Roads.	\$255,000,000	\$255,000,000	1/02/07	1/11/09	This project involved the major reconstruction of the Ipswich Motorway/Logan Motorway interchange at Gailes and widening of a two kilometre stretch of the Ipswich Motorway between Goodna and Gailes.
Ipswich Motorway Upgrade - Dinmore to Goodna	Queensland Department of Transport and Main Roads.	\$929,600,000	\$929,600,000	1/06/09	1/05/12	This project widened the Ipswich Motorway to six lanes between Dinmore and the Ipswich/Logan Motorway interchange at Goodna - a length of approximately 8 km. The upgrade has improved access to rail stations, provided improved facilities for pedestrians and cyclists, and provided service roads to remove local trips from the motorway.
Maintenance Funding - Childers to Sarina - Strengthening and Widening	Queensland Department of Transport and Main Roads.	\$70,000,000	\$70,000,000	1/11/10	Mid 2014	The project involves works to widen and strengthen key sections of narrow and broken highway, replace old bitumen and widen culverts to improve the driving conditions.
Pacific Motorway - Widening Between Nerang and Mudgeeraba Interchanges	Queensland Department of Transport and Main Roads.	\$223,500,000	\$111,750,000	1/05/10	Late 2014	The Australian and Queensland governments are jointly funding the \$223.5 million Pacific Motorway Upgrade, Nerang to Mudgeeraba Widening project. As part of this upgrade the project will: - Widen the Pacific Motorway from four to six lanes between Pappas Way at Nerang and the Mudgeeraba Interchange; - Provide safety improvement works on the Worongary Interchange; and - Include planning and land acquisition for the Nerang to Tugun section of the motorway.

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Pacific Motorway Upgrade - Gateway to Logan, Section B - Springwood South to Daisy Hill	Queensland Department of Transport and Main Roads.	\$365,000,000	\$182,500,000	1/11/09	1/11/12	The Australian and Queensland governments jointly funded the \$365 million Pacific Motorway Upgrade, Springwood South to Daisy Hill project. As part of this upgrade the project will: - Rehabilitate the motorway, providing for future lane upgrades to preserve and maintain the road network for the next 20 years; - Include heavy-duty asphaltting, construction of wider road shoulders, safety barriers and installation of improved signage; - Replace the Loganlea Road bridge with a new five-lane overpass with provision for cyclists and pedestrians; - Upgrade the Loganlea Road Interchange with signalised intersections; and - Improve the Paradise Road roundabout.
Peak Downs Highway Safety Works	Queensland Department of Transport and Main Roads.	\$120,000,000	\$120,000,000	Early 2015	Late 2016	The project involves an upgrade and realignment of the Peak Downs Highway through the Eton Range section to address safety concerns.
Sarina to Cairns - Black Spots	Queensland Department of Transport and Main Roads.	\$94,197,000	\$94,197,000	1/11/09	Mid 2014	The project will involve safety enhancement works at known crash blackspots on the Bruce Highway between Sarina and Cairns.
Sarina to Cairns - Overtaking Lanes	Queensland Department of Transport and Main Roads.	\$60,000,000	\$60,000,000	1/06/11	Mid 2014	The project involves the construction of up to 30 new overtaking lanes between Sarina and Cairns.
Townsville Port Access Road	Queensland Department of Transport and Main Roads.	\$217,000,000	\$95,000,000	1/08/08	1/11/12	The Townsville Port Access Road (TPAR) will provide a highway link (Bruce and Flinders Highways) to the Port of Townsville to support continuing economic growth, in particular, agricultural and mineral imports and exports through the port. The existing route to the port has operational constraints due to adjacent residential development. It has significant safety and amenity (noise and vibration) problems. The works included: - A 2.5 kilometre section, bypassing a portion of the Flinders Highway that passes through residential areas by connecting to the Bruce Highway south of Townsville. The design provides for two lanes at 80 km/hr, Q50 flood immunity and crossing of the Great Northern Railway. - A 7.5 kilometre section of greenfield alignment from the Bruce Highway to the Townsville Port road network. The design provides for two lanes at 80 km/hr, Q50 flood immunity and crossing of the Ross River.
Townsville Ring Road - Section 4 (Shaw Road to Mount Low)	Queensland Department of Transport and Main Roads.	\$200,000,000	\$160,000,000	Early 2014	Late 2016	The project involves the construction of the final section of the Townsville Ring Road, between Shaw Road and Mount Low through the Bohle Plains. It will connect the Ring Road with the Bruce Highway north of the Mount Low Parkway intersection.
Townsville Ring Road between Condon and Shaw Road	Queensland Department of Transport and Main Roads.	\$119,000,000	\$79,500,000	1/04/07	1/04/09	The Townsville Ring Road extended Shaw Road from Dalrymple Road to Hervey's Range Road, and connected through Condon to the Douglas Arterial at the Ross River. The Douglas Arterial, which opened to the public in early 2005, was a precursor for the Townsville Ring Road.
Upgrade of Caboolture to Caloundra	Queensland Department of Transport and Main Roads.	\$195,000,000	\$195,000,000	Mid 2013	Mid 2015	This project involves the upgrading of intersections and interchanges between Caboolture and Caloundra.
Upgrade Southern Approach to Cairns	Queensland Department of Transport and Main Roads.	\$150,000,000	\$150,000,000	1/10/11	Late 2013	The project involves the construction of an additional in bound lane and road overpasses, elimination of rail crossings, provision of service roads and installation of a traffic management system.
Vantassel Street to Cluden Duplication	Queensland Department of Transport and Main Roads.	\$137,500,000	\$110,000,000	Mid 2013	Early 2015	This project involves the duplication of seven kilometres of the Bruce Highway from Vantassel Street to Flinders Highway, south of Townsville, to four lanes and includes the widening of the Stuart Creek Bridge.
Wacol to Darra (Stage 1)	Queensland Department of Transport and Main Roads.	\$700,000,000	\$700,000,000	1/03/08	1/04/10	The upgrade to the Wacol to Darra section of the Ipswich Motorway constructed a major new interchange at the junction of the Ipswich Motorway and the Centenary Highway and widened the Ipswich Motorway to six lanes over five km from the Logan Motorway interchange at Galleys to Jervis Street, Darra.

Nation Building Program Major Road Projects

Project Name	Proponent	Total Project Cost	Australian Government Contribution	Construction/ Study Start Date	Construction/ Study End Date	Project Description
Warrego Highway - Brisbane Valley Highway Interchange Upgrade	Queensland Department of Transport and Main Roads.	\$93,400,000	\$54,000,000	1/03/13	Late 2014	The project involves the construction of a grade separated interchange at the Warrego Highway and Brisbane Valley Highway intersection and the Wulkuraka Connection Road and Warrego Highway intersection. The project also includes upgrades of adjacent sections of the Warrego Highway, the Brisbane Valley Highway and the Wulkuraka Connection Road and the construction of a local service road.
Accelerated Pacific Highway Duplication and Safety Works Package	Roads & Traffic Authority of New South Wales	\$392,400,000	\$160,000,000	1/10/07	1/07/10	<ul style="list-style-type: none"> • Duplication (dual carriageway) from Moorland to Herons Creek, approximately 36.3 km to 58.6 km north of Taree; • Widening to provide adequate shoulders for 3.8 km between Nambucca and Urunga; • Widening to provide adequate shoulders with minor curve
Accelerated Southern Hume Duplication Package	Roads & Traffic Authority of New South Wales	\$800,000,000	\$800,000,000	1/05/07	1/12/09	The duplication package consisted of 5 major components situated between the Sturt Highway and Table Top. The package involved the duplication of 67 kilometres of single lane carriageway, ultimately providing a four lane divided carriageway. The package was completed on 4 December 2009.
Alstonville Bypass	Roads & Traffic Authority of New South Wales	\$97,000,000	\$97,000,000	1/05/09	1/05/11	The project comprised construction of a new single 6.2 km southern bypass of Alstonville and Wollongbar. The bypass starts at Sneaths Road, Wollongbar and rejoins the existing Bruxner Highway near the Tropical Fruit Research Station at Perry's Hill, east of Alstonville.
Bega Bypass	Roads & Traffic Authority of New South Wales	\$60,000,000	\$60,000,000	1/06/12	Late 2013	The project comprises construction of a new 3.5 kilometre two-lane highway west of Bega. It will bypass Bega town centre and connect to the Princes Highway.
F3 Freeway - widening, Stages 2 & 3 (Cowan to Mt Colah).	Roads & Traffic Authority of New South Wales	\$93,645,000	\$74,916,000	1/02/07	1/11/09	Widening of the F3 Freeway to 3 lanes in each direction south of the Hawkesbury River.
F5 Widening - Brooks Road, Ingleburn to Narellan Road Campbelltown	Roads & Traffic Authority of New South Wales	\$116,000,000	\$92,800,000	1/01/09	1/03/12	The final stage of the F5 widening involved the section of the Freeway between Brooks Road, Ingleburn and Raby Road, St Andrews, from two lanes to four lanes in each direction, and the section between Raby Road and Narellan Road, Campbelltown, from two lanes to three lanes in each direction. The project involved: <ul style="list-style-type: none"> - Widening the F5 Freeway from four lanes to eight lanes in the median between Brooks Road and Raby Road (approximately 5.8 km). - Widening the F5 Freeway from four lanes to six lanes in the median between Raby Road and Narellan Road (approximately 5.2 km). - Construction of a pedestrian/cyclist overbridge across the Freeway between Claymore and Woodbine. - Strengthening the existing freeway pavement by heavy patching and overlay. - Full width pavement reconstruction at Campbelltown Road overpass and Raby Road overpass to maintain vertical clearance under the bridge structures. - Full width pavement reconstruction at the approaches to the bridges over Bunbury Curran Creek and Badgally Road to maintain uniform road levels. - Widening of bridges over Bunbury Curran Creek for both carriageways. - Three emergency cross-overs between southbound and northbound carriageways (approximately at 5 km intervals). - Installation of noise barrier/mound. - Provision of pavement detector loops and communication cableway to facilitate future installation of an Intelligent Transport System (ITS).
Great Western Highway - Mount Victoria to Lithgow Upgrade	Roads & Traffic Authority of New South Wales	\$250,000,000	\$200,000,000	Mid 2013	Mid 2016	The Great Western Highway provides the principal link between Sydney and central New South Wales. This project involves: <ul style="list-style-type: none"> - the development of a concept design for an upgrade of the Great Western Highway between Mount Victoria and Lithgow; - an upgrade of the highway at Forty Bends; - an enhanced package of safety works between Mt Victoria and Lithgow; and - safety upgrades on the highway between Katoomba and Mount Victoria.
Great Western Highway - Mt Victoria to Lithgow - Safety Improvements	Roads & Traffic Authority of New South Wales	\$87,000,000	\$57,500,000	1/11/10	Mid 2014	The Great Western Highway provides the principal link between Sydney and central New South Wales. This project, which forms part of the overall \$250 million upgrade of the Great Western Highway between Katoomba and Lithgow, involves safety improvements on sections of the Highway between Mount Victoria and Lithgow. Priority areas identified include the bottom curve and top curve of Victoria Pass along with sections of the highway through Mt Victoria village and Hartley Valley.

Nation Building Program Major Road Projects

Project Name	Proponent	Total Project Cost	Australian Government Contribution	Construction/ Study Start Date	Construction/ Study End Date	Project Description
Great Western Highway - Woodford to Hazelbrook Stage 2	Roads & Traffic Authority of New South Wales	\$175,000,000	\$70,000,000	1/03/10	Early 2014	The Great Western Highway provides the principal link between Sydney and central New South Wales. This project is a major upgrade of 3.1 kilometres of the Great Western Highway between Station Street, Woodford and Winbourne Road, Hazelbrook. The highway will be widened to four lanes with a centre median and sealed shoulders. It will also include an off-road shared user path which will connect to other paths constructed in previous stages of the upgrade.
Hume Highway - Coolac Bypass	Roads & Traffic Authority of New South Wales	\$171,000,000	\$171,000,000	1/05/07	1/08/09	The Coolac Bypass project involved the construction of new dual carriageways over a 12 km length of the Hume Highway between 8 km and 20 km north of Gundagai. The tender was awarded to Abigroup in February 2007. The project was opened to traffic in August 2009. New dual carriageways have been built and an adjacent 4 km long section of the northbound carriageway has been realigned north of the 'Dog on the Tuckerbox'. There is an interchange at Cootamundra Road. A bridge over the highway provides motorists with access to the Coolac village. Other key features included construction of twin bridges over Daisy Bed and Muttama Creeks, and rest areas servicing traffic in both directions. In addition, Main Street, Coolac will be upgraded.
Hume Highway - Holbrook Bypass - Construction	Roads & Traffic Authority of New South Wales	\$242,210,000	\$220,000,000	1/05/11	Mid 2013	The construction of the Holbrook bypass will comprise approximately 9.5 kilometres of four-lane divided highway. The bypass will deviate west around the township of Holbrook and will connect to the existing carriageway to the north and south of the town.
Hume Highway - Sheahan Bridge Duplication	Roads & Traffic Authority of New South Wales	\$68,659,173	\$68,659,173	1/10/07	1/05/09	The Hume Highway is four lanes wide immediately north and south of the Sheahan Bridge at Gundagai, while the bridge is two lanes wide. The project involved the construction of another two lane bridge - 1,143 metres long, beside the existing bridge. The original two-lane Sheahan Bridge was opened in 1977 when the number of vehicles using the highway did not warrant a structure with more than two lanes. Traffic levels have now risen sufficiently to justify its duplication.
Hume Highway - Tarcutta Bypass - Construction	Roads & Traffic Authority of New South Wales	\$290,000,000	\$225,000,000	1/03/10	1/11/11	The Construction of the 6.8 km four-lane divided highway bypass of Tarcutta has been completed. The bypass was built to the west of Tarcutta and joins the existing Hume Highway dual carriageways to the north and south of the town.
Hume Highway - Woomargama Bypass - Construction	Roads & Traffic Authority of New South Wales	\$265,000,000	\$265,000,000	1/05/10	1/11/11	Construction has been completed on the 8.9 km four-lane divided highway bypass of Woomargama. The bypass now connects with the existing Hume highway dual carriageway to the north and south of the town.
Hunter Expressway (NSW)	Roads & Traffic Authority of New South Wales	\$1,651,000,000	\$1,451,000,000	1/08/10	Late 2013	The Hunter Expressway project will provide a new dual carriageway between the F3 and the New England Highway near Brantxon. The project will provide six strategic interchanges along the route to service local communities and provide significant traffic relief to the New England Highway between Weakleys Drive and Brantxon.
New England Hwy - Weakleys Drive Interchange	Roads & Traffic Authority of New South Wales	\$51,800,000	\$51,800,000	1/03/07	1/11/10	In the vicinity of Thornton, the New England Highway intersects with three major roads - Anderson Drive, Thornton Road and Weakleys Drive. Anderson Drive and Thornton Road provide access to a major industrial zone immediately to the north. The project involved the construction of a new bridge that carries the New England Highway over the intersection of Weakleys Drive and a new road connecting to the Thornton-Beresfield link road. It also removed a number of traffic lights where significant delays occurred. The project included construction of a pedestrian bridge over the New England Highway approximately 300 metres east of Avalon Drive.
Newell Hwy - Moree Bypass.	Roads & Traffic Authority of New South Wales	\$56,200,000	\$56,200,000	1/11/07	1/12/10	Realignment of the Newell Highway from the Northern entry to Moree across the Mehi River, connecting back to the Newell Highway via the Gwydir Highway including an upgrade of Alice Street.

Nation Building Program Major Road Projects

Project Name	Proponent	Total Project Cost	Australian Government Contribution	Construction/ Study Start Date	Construction/ Study End Date	Project Description
Pacific Highway - Ballina Bypass - Final construction (Nation Building)	Roads & Traffic Authority of New South Wales	\$352,228,237	\$321,000,000	1/05/08	1/05/12	The previous alignment of the Pacific Highway travelled through the urban area of Ballina and involved navigating through the township which comprises of 5 roundabouts, traffic lights, 60 kph speed zones and dealing with local traffic congestion. The completed project provides 12 kilometres of dual carriageway extending from south of Ballina at the intersection of the Bruxner and Pacific highways, to north of Ballina at the intersection of Ross Lane at Tintenbar. The bypass provides travel time savings of up to 12 minutes. The project involved: - a new dual carriageway, generally 4 lanes with 6 lanes between the Bruxner Highway and Teven Rd; - interchanges at Teven Rd and Cumbalum; - bridges over Emigrant, Duck and Sandy Flat Creeks and a flood relief structure at Cumbalum; - flood immunity of 1 in 20 years; - major soft/compressible soils embankment pre-loading works; and - compensatory wetland. - - The project was technically difficult due to the depth of soft/compressible soils on the floodplain.
Pacific Highway - Ballina Bypass - Planning and initial construction (AusLink)	Roads & Traffic Authority of New South Wales	\$287,771,763	\$129,000,000	1/05/08	1/05/12	The previous alignment of the Pacific Highway travelled through the urban area of Ballina and involved navigating through the township which comprises of 5 roundabouts, traffic lights, 60 kph speed zones and dealing with local traffic congestion. The completed project provides 12 kilometres of dual carriageway extending from south of Ballina at the intersection of the Bruxner and Pacific highways, to north of Ballina at the intersection of Ross Lane at Tintenbar. The bypass provides travel time savings of up to 12 minutes.
Pacific Highway - Banora Point - Planning and construction (Nation Building)	Roads & Traffic Authority of New South Wales	\$349,752,223	\$347,000,000	1/12/09	1/09/12	The Pacific Highway at Banora Point is an urban arterial road. It currently provides 2 or 3 lanes in each direction. The upgrade will be to construct a 2.5 kilometre deviation to bypass the Banora Point urban centre. Project features include: south facing access ramps at the southern end; moderate grades of 3.5 to 4.5% on either side of Sextons Hill; a viaduct approximately 330 metres in length across the gully to the south of the project; a 100 metre wide land bridge maintaining much of Wilson Park; and retention of the existing road for incorporation into the new service/local road network.
Pacific Highway - Bulahdelah Bypass - Planning and construction (Nation Building)	Roads & Traffic Authority of New South Wales	\$284,815,714	\$284,800,000	1/12/09	Mid 2013	This project will provide a full bypass of Bulahdelah including a new crossing over the Myall River. The Bulahdelah Bypass project comprises a new 8.6km four-lane divided highway bypass to the east of Bulahdelah from about 1.5km south of Booral Road northwards to the existing dual carriageway at Wootton Way.
Pacific Highway - Coopers Creek - Final construction (Nation Building)	Roads & Traffic Authority of New South Wales	\$62,000,000	\$62,000,000	1/01/08	1/05/10	This project is jointly funded by the Australian and NSW governments and has provided 9.9 kilometres of new dual carriageway highway largely following the current route, including a western bypass of Moorland South. This project has been combined with the Moorland to Herons Creek project to form a single project, which was constructed under an alliance contract by Thiess Pty Ltd and Parsons Brinckerhoff. The combined completed project has provided approximately 163 kilometres of continuous four-lane dual carriageway
Pacific Highway - Coopers Creek - Planning and initial construction (AusLink)	Roads & Traffic Authority of New South Wales	\$140,000,000	\$92,500,000	1/01/08	1/05/10	This project is jointly funded by the Australian and NSW governments and has provided 9.9 kilometres of new dual carriageway highway largely following the current route, including a western bypass of Moorland South. This project has been combined with the Moorland to Herons Creek project to form a single project, which was constructed under an alliance contract by Thiess Pty Ltd and Parsons Brinckerhoff. The combined completed project has provided approximately 163 kilometres of continuous four-lane dual carriageway between Bulahdelah and Port Macquarie.

Nation Building Program Major Road Projects

Project Name	Proponent	Total Project Cost	Australian Government Contribution	Construction/ Study Start Date	Construction/ Study End Date	Project Description
Pacific Highway - Devils Pulpit Upgrade (Nation Building)	Roads & Traffic Authority of New South Wales	\$77,000,000	\$62,000,000	1/12/11	Late 2013	This project will improve the quality of a 7.3 kilometre stretch of the Pacific Highway at Devils Pulpit State Forest north of Grafton. The project is a 7.3 kilometre deviation and is a part of the future Iluka Road to Woodburn Upgrade. The project consists of: - 5.7 kilometres duplication using the existing highway as the northbound carriageway, - 1.6 kilometres dual carriageway deviation; and - 3.0 kilometres of median wire rope safety barrier.
Pacific Highway - Frederickton to Eungai - (Nation Building)	Roads & Traffic Authority of New South Wales	\$762,000,000	\$381,000,000	Mid 2013	Mid 2016	The Frederickton to Eungai upgrade project is approximately 26.5 kilometres long and will involve construction of a four lane divided highway on a new alignment to the west of the existing Pacific Highway. The southern end of the Project will connect to the interchange to be built north of Frederickton as part of the Kempsey Bypass. The northern end of the Project will connect to the current dual carriageway on the northern side of the Main Northern Rail line at Eungai. Planning and preconstruction activities for the Frederickton to Eungai upgrade will include: - Survey, geotechnical and sub-surface heritage investigations; - Property acquisitions; - Relocation of public utilities; - Preparing contract documents, invitation and awarding of contract; - Other pre-construction activities associated with the contract to enable substantial construction to commence.
Pacific Highway - Glenugie Upgrade	Roads & Traffic Authority of New South Wales	\$60,000,000	\$54,000,000	1/03/10	1/02/12	The Glenugie Upgrade project involved the upgrade of approximately 7 kilometres of the Pacific Highway from the existing two-lane highway to a four-lane divided highway. This project forms part of the larger Wells Crossing to Iluka Road upgrade project, and is the initial stage of that project. Project features include: - A-class (highway) controlled access road standard with 100km/h posted speed limit and at-grade junctions, with allowance to ultimately upgrade to M-class (motorway) standard with 110 km/h posted speed limit and grade separated junctions; - Provision of up to approximately 6.5 kilometres of four-lane divided highway comprising as a minimum, 3 kilometres of four-lane deviation and then up to approximately 3.5 kilometres of duplication of existing highway; and - Utilisation of up to approximately 3.5 kilometres of the existing highway as a northbound carriageway with some pavement restoration and alignment improvements.
Pacific Highway - Herons Creek to Stills Road (Nation Building)	Roads & Traffic Authority of New South Wales	\$60,000,000	\$53,000,000	1/03/11	Mid 2013	This project will improve the quality of an approximately 3.5 kilometre stretch of the Pacific Highway between Herons Creek and Stills Road south of Port Macquarie. The project comprises of the construction of a new northbound carriageway within the existing median area. Much of the existing northbound carriageway will become a two-way service road, linking Bago Road, Burrawan Forest Drive (west), Herons Creek Public School and local properties to the grade-separated interchange south of Bago Road.
Pacific Highway - Karuah to Bulahdelah Sections 2 & 3 - Planning and initial construction (AusLink)	Roads & Traffic Authority of New South Wales	\$262,000,000	\$131,000,000	1/04/07	1/10/09	The project involved duplication of the Pacific Highway generally along its existing alignment. Section 1 of the Karuah to Bulahdelah Upgrade comprising 1.1 kilometres was completed in December 2006 as a jointly funded Australian and NSW Government project. Sections 2 & 3 commence 2 kilometres north of Myall Way and continue to about 3 kilometres south of Bulahdelah. This will be the commencement point for the Bulahdelah Bypass project which commenced early works in December 2009.
Pacific Highway - Kempsey Bypass (NSW)	Roads & Traffic Authority of New South Wales	\$618,000,000	\$618,000,000	1/06/10	1/03/13	The Kempsey Bypass project on the Pacific Highway involves the construction of a 14.5 kilometre dual carriageway bypass of the Kempsey and Frederickton townships on the mid-north coast of New South Wales, east of the existing Pacific Highway. Important features of the new bypass include the construction of approximately 3.2 kilometres of bridging over the Macleay River floodplain and grade separated interchanges at South Kempsey and Frederickton. The Frederickton interchange was opened to traffic on 16 June 2012. Opening of this interchange will allow the project team to complete building on the northern side of the Macleay River including the Frederickton levee.

Nation Building Program Major Road Projects

Project Name	Proponent	Total Project Cost	Australian Government Contribution	Construction/ Study Start Date	Construction/ Study End Date	Project Description
Pacific Highway - Sapphire to Woolgoolga - Planning and construction (Nation Building)	Roads & Traffic Authority of New South Wales	\$670,337,714	\$610,000,000	1/08/10	Late 2014	The project will provide 25 kilometres of new dual carriageway from Sapphire, just north of Coffs Harbour, to Arrawarra Creek, north of Woolgoolga. The southern section will follow the existing alignment and will retain parts of the existing highway as a local road. The northern section will comprise a western bypass of Woolgoolga. Grade separated interchanges will be required to service the northern suburbs of Coffs Harbour including Sapphire, Moonee, Emerald Beach, Sandy Beach and Woolgoolga. The concept design includes five grade separated interchanges and service roads connecting between Sapphire and south Woolgoolga. The project will have a 110 km/h design speed, two 3.5 metre travel lanes in each direction, wide sealed outer shoulders and 1 in 100 year flood immunity for at least one carriageway. Twin bridges will be required at Cunninghams, Skinners, Double Crossing, Woolgoolga and Arrawarra Creeks and six overpasses and two underpasses for minor roads.
Pacific Highway - Tintenbar to Ewingsdale - Planning and construction (Nation Building)	Roads & Traffic Authority of New South Wales	\$816,402,835	\$554,100,000	1/09/12	Late 2014	The Tintenbar to Ewingsdale project will provide a new 17km dual carriageway replacing the 19km of existing highway. It will link the proposed Ballina bypass in the south, to the existing dual carriageway at Ewingsdale in the north. The proposed scope of the project includes: M-class (motorway) standard, 110km/h speed limit with grade-separated interchanges; two lanes in each direction with a 12 metre wide median allowing for the future addition of a third lane in each direction; 340 metre long tunnel through St Helena Hill; third (slow speed) lane on two southbound uphill grades-approach to the tunnel under St Helena Hill and south of Bangalow; carriageway width of 11.5 metre at Ross Lane (to be constructed as part of Ballina bypass), Bangalow Road (half interchange with south facing ramps) and Ewingsdale Road (existing interchange); and diversion or grade-separation where local roads cross and separation of local and through traffic by provision of a separate service road for local traffic (generally the existing highway).
Pacific Highway - Warrell Creek to Urunga - Planning (Nation Building)	Roads & Traffic Authority of New South Wales	\$97,688,003	\$71,000,000	1/05/08	Mid 2013	Warrell Creek to Urunga is a 42 kilometre section of the Pacific Highway. The upgrades in this section will be delivered as two separate projects: Warrell Creek to Nambucca (20 kilometres) and Nambucca to Urunga (22 kilometres). The upgrade will bypass the township of Urunga.

Nation Building Program Major Rail Projects Involved in the Bulk Transport of Export of Coal

Project Name	Proponent	Total Project Cost	Australian Government Contribution	Construction Start Date	Construction End Date	Project Description
Hunter Valley: Liverpool Range New Rail Alignment	Australian Rail Track Corporation Limited	\$284,000,000	\$72,000,000	1/02/12	Mid 2014	This current section of track across the Liverpool Range in the Hunter Valley will be a major bottleneck in the Hunter Valley network as forecast increases in coal traffic are realised. The construction of a third track along the length of the Minimbah Bank starting from the north of Whittingham Junction.
Hunter Valley: Minimbah Bank Third Rail Line	Australian Rail Track Corporation Limited	\$114,000,000	\$114,000,000	1/05/09	1/05/10	The project will take place along approximately 29km of rail track between Maitland and Minimbah and will be completed in two phases. The first phase involves the construction of a third track and associated infrastructure between Farley and Greta and between Branxton and Minimbah. Phase 2 for the track between Farley and Telarah and between Branxton and Greta will undergo significant track reconditioning over the next two years to ensure rail safety and reliability. Construction of a third track in Phase 2 areas will be considered following an
Hunter Valley: Maitland Third Rail Line	Australian Rail Track Corporation Limited	\$362,800,000	\$270,000,000	1/03/11	1/11/12	The project involved the construction of new passing loops at Bylong, Warondi, Aerosol Valley, Radio Hut and Bengalla.
Hunter Valley: Ulan Line Passing Loops and Duplication	Australian Rail Track Corporation Limited	\$57,000,000	\$57,000,000	1/06/08	1/08/11	