

# Moving SEQ

## - Project TransApex



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## Setting the Scene: A Growing Brisbane!

By 2016 metro Brisbane will experience:

- 450,000 (27%) more people
- 40% increase in vehicle travel (km)
- 400% increase in congestion delay -\$2.6B to \$9.3B
- Brisbane \$4600 per person/per annum compared to Sydney & Melbourne at \$2200 per person/per annum

Resulting in:

- Congestion levels greater than Sydney and Melbourne
- 14% increase in vehicle emissions
- Public transport caught in congestion
- Decreasing economic competitiveness
- Reduced amenity



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# A Transport Dilemma that can't be ignored!

## Structural Issues

- 5 out of 7 river crossings reach or exceed the limits of their carrying capacity each week day
- Moreton Bay to the east; D'Aguilar Range to the West
- “All roads lead to Rome (Brisbane)” - 43% of peak hour traffic in the CBD is through traffic
- Most jobs are locate in the CBD & Urban Fringe





## BCC: as the largest City Council!

Unique situation:

- **City of Brisbane** has population of almost 1 million people and covers an area of 1350 sq kms
- Compared to;
- **City of Sydney** with a population of 140,000 (350K worker population) and area of 26.15 sq kms
- **City of Melbourne** with a population of 52,000 and area of 36.5 sq kms



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## Solution: Project TransApex

- Brisbane City Council initiative
- Ensure Brisbane has an effective orbital road system to move people and goods effectively
- \$4B investment is proposed:
  - North-South Distributor (North-South Bypass Tunnel)
  - East-West Distributor
  - The Northern Link
  - The Hale Street-South Brisbane Connection
  - Kingsford Smith Drive Duplication (or Stage 2 and 3 of North-South Bypass Tunnel)
- \$3B to be raised through a user pays system
- \$1B in total from BCC the State & Federal Govts





## Why Project TransApex?

- TransApex benefits Brisbane's road network by providing high quality orbital road and freight networks within Brisbane
  - Supports industry by providing a strategic road and freight network of regional significance that links key areas like the port and airport to Brisbane CBD and suburbs
  - Allows for private sector involvement in the delivery of critical transport infrastructure
  - Improves the economic and social well being of the Brisbane community through the delivery of a strategic road network





# Project TransApex

- Structural Benefits
- Links major roads;
  - Gateway Arterial
  - Western Freeway
  - Pacific Motorway
- Three new, high capacity river crossings



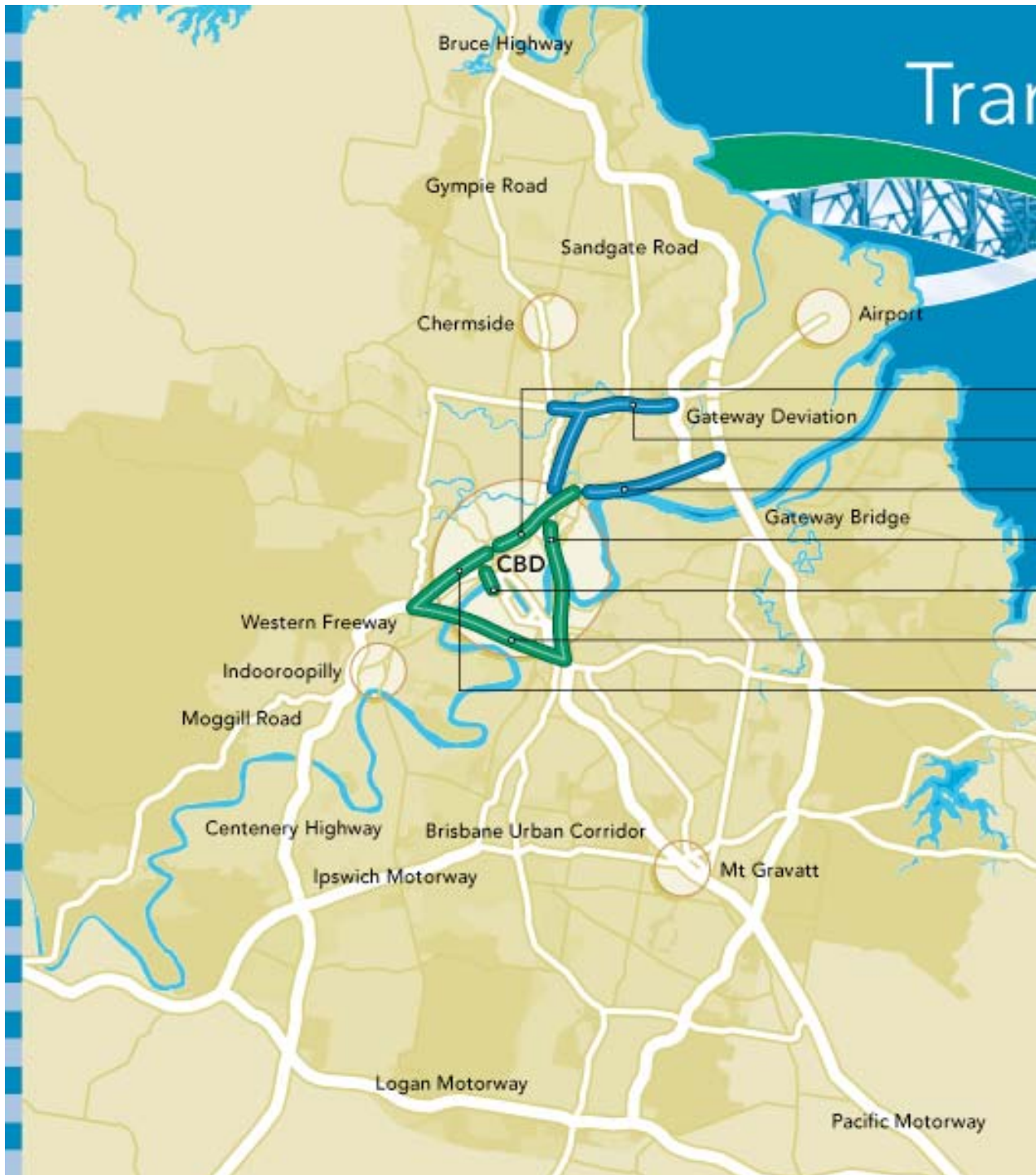
Existing Network  
**TransApex**



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# Project overview

# TransApex



- Inner City Bypass
- North-South Bypass Tunnel Stage 2/3
- Kingsford Smith Drive Duplication
- North-South Bypass Tunnel
- Hale Street Connection
- East-West Distributor
- Northern Link



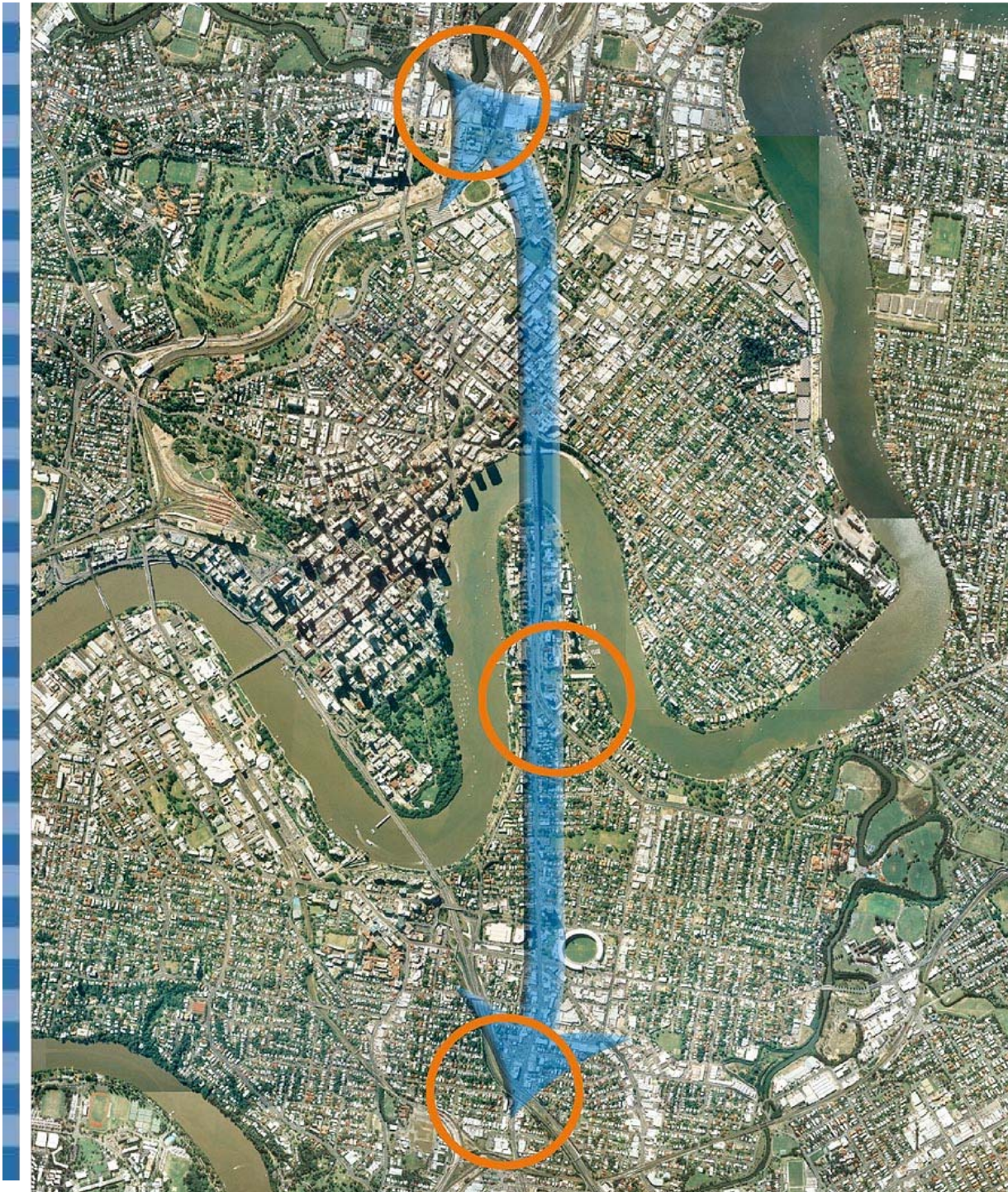
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## Project TransApex - Timeframe

- Looking at interaction and sequencing of projects
- Preliminary engineering and transport modelling being advanced
- Prefeasibility Report available January 2005
- \$2.9 million being spent this financial year





# North-South Bypass Tunnel



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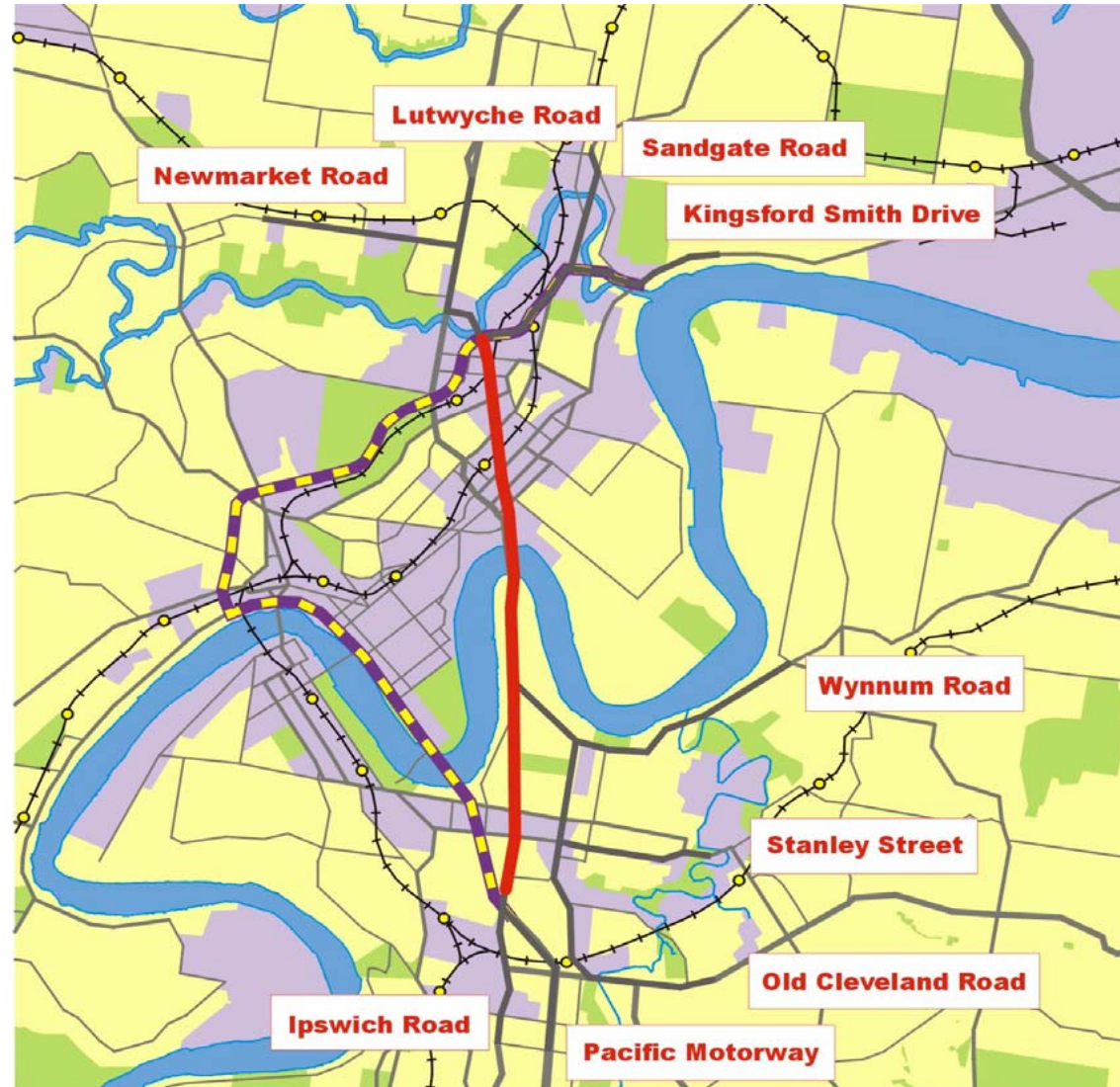


## North-South Bypass Tunnel (NSBT)

- Highest priority for Brisbane City Council
- Twin tube, two lane tunnel excavated in rock below Brisbane & the Brisbane River
- approx 5km long, 12m diameter, 80km/hr design speed
- State of art ventilation and fire and life safety system
- Safety is key priority for design
- Construction cost about \$1.2B
- Electronic toll road (capacity up to 95,000 cars per day)
- \$23.4 million being spent this financial year



# Overview



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## NSBT Key Dates

- Currently in detailed feasibility/business case phase
- Community consultation under way
- Industry consultation under way
- Market Sounding September 2004
- Public display of EIS February 2005
- Business Case & Project Approval May 2005
- Tender process late 2005
- Construction 2006
- Project Opens 2009



**New tunnel project begins industry consultation**

Brisbane is a rapidly growing city and the centre of the largest growth region in Australia. With a population nearing one million, Brisbane City Council plans to revolutionise cross-city travel and relieve traffic congestion with a new tunnel.

The proposed 4.7km North-South Bypass Tunnel (NSBT) will be constructed in hard rock below the city and under the Brisbane River. It will comprise two parallel tunnels, three surface portals, safety and ventilation systems, fire protection and monitoring systems, as well as an electronic tolling system. Brisbane City Council is undertaking a Detailed Feasibility Study for the project and has set up a communication process for industry specialists interested in talking to us about the project.

If your company has experience in one of the following areas:

- Major contractors with tunnelling, civil, or mechanical/ electrical expertise
- TBM manufacturers (hard rock)
- Infrastructure investors, financiers and insurers
- Electronic tolling operators

and you would like to discuss the project with us, please visit [www.brisbane.qld.gov.au/nsbt](http://www.brisbane.qld.gov.au/nsbt) to download a copy of the industry consultation document.

Please note that there is no obligation to respond at this time. This process has been established as a conduit for those companies that would like to begin talking to Council prior to the official procurement process.

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# North-South Bypass Tunnel

- Business case delivery model
  - PPP
  - DCM
  - BOOT





## Summary

- Brisbane is growing rapidly and is constrained by its current infrastructure
- TransApex delivers a regionally significant road and freight network that will promote economic and social well-being
- North-South Bypass Tunnel is a priority project for Brisbane City Council
- Transport is a key issue for people of Brisbane

