

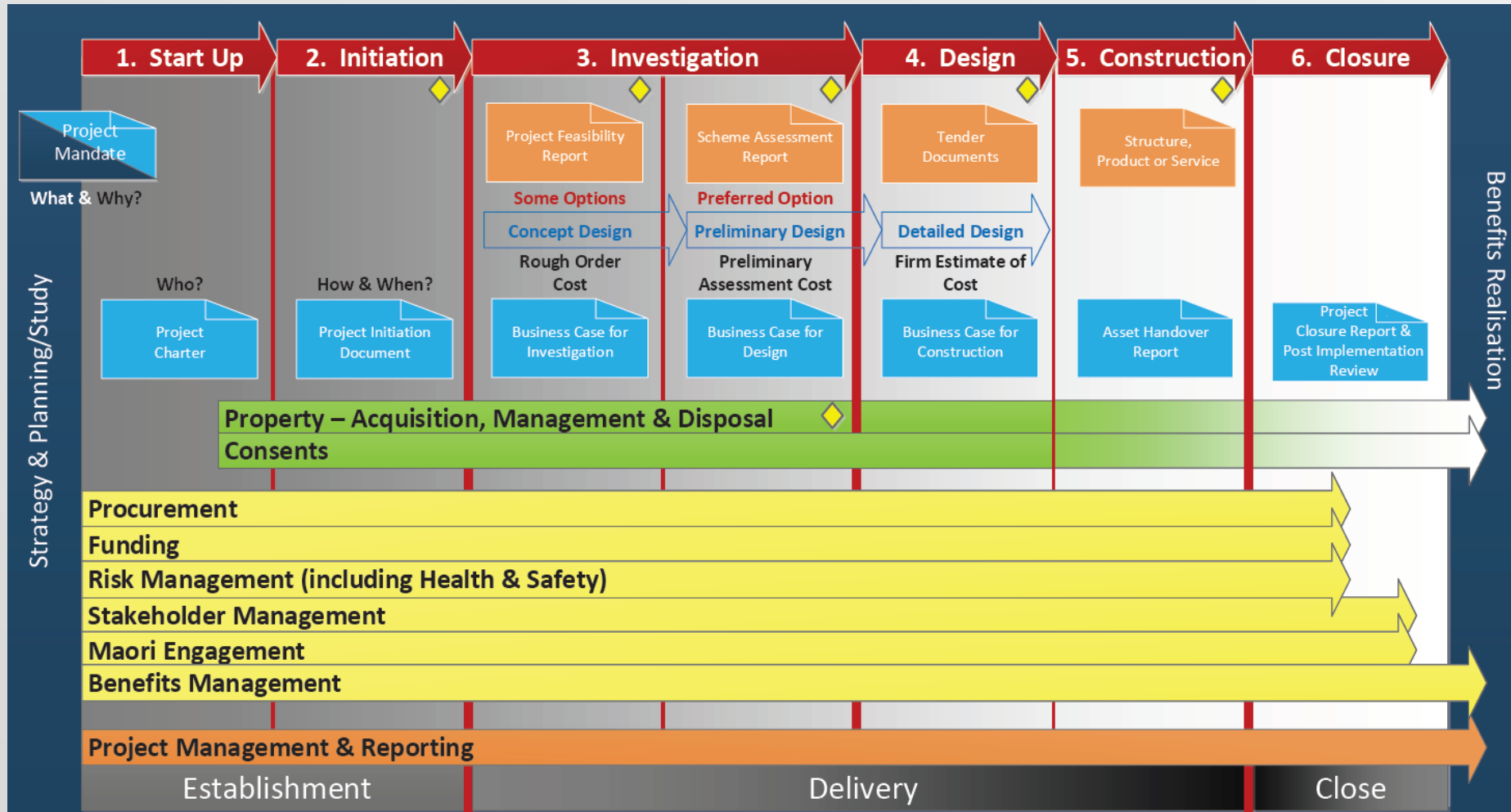
Mark Allan



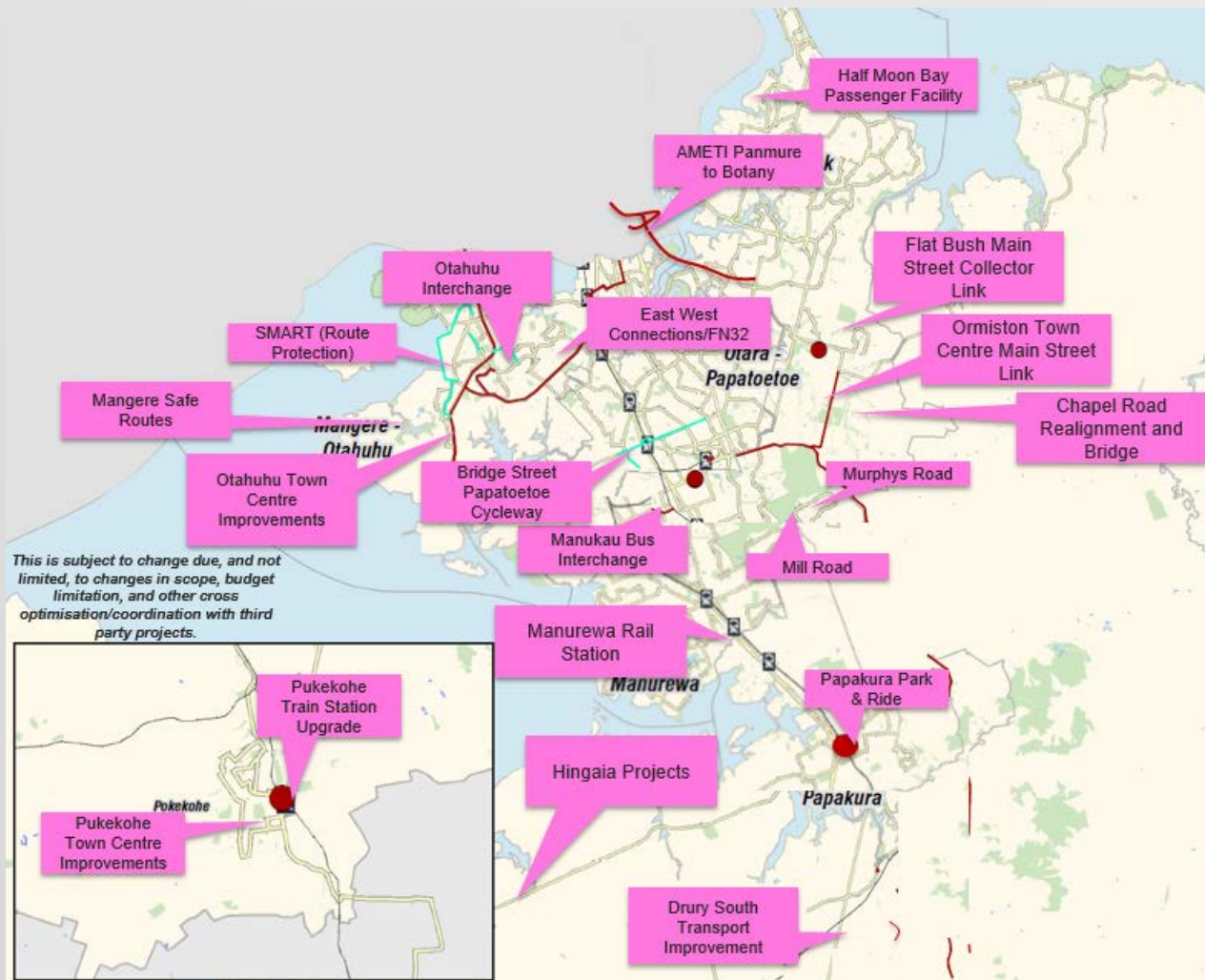
Three projects, three years in
project management

Young engineer's presentation, Road Controlling Authorities Forum
16 November 2018

Starting in project management



AT South East delivery team



Clem Reeve, team manager



Remi Cruz
PT development
manager



Phil Donnelly
Road
development
manager east



Richard Firth
Road
development
manager south

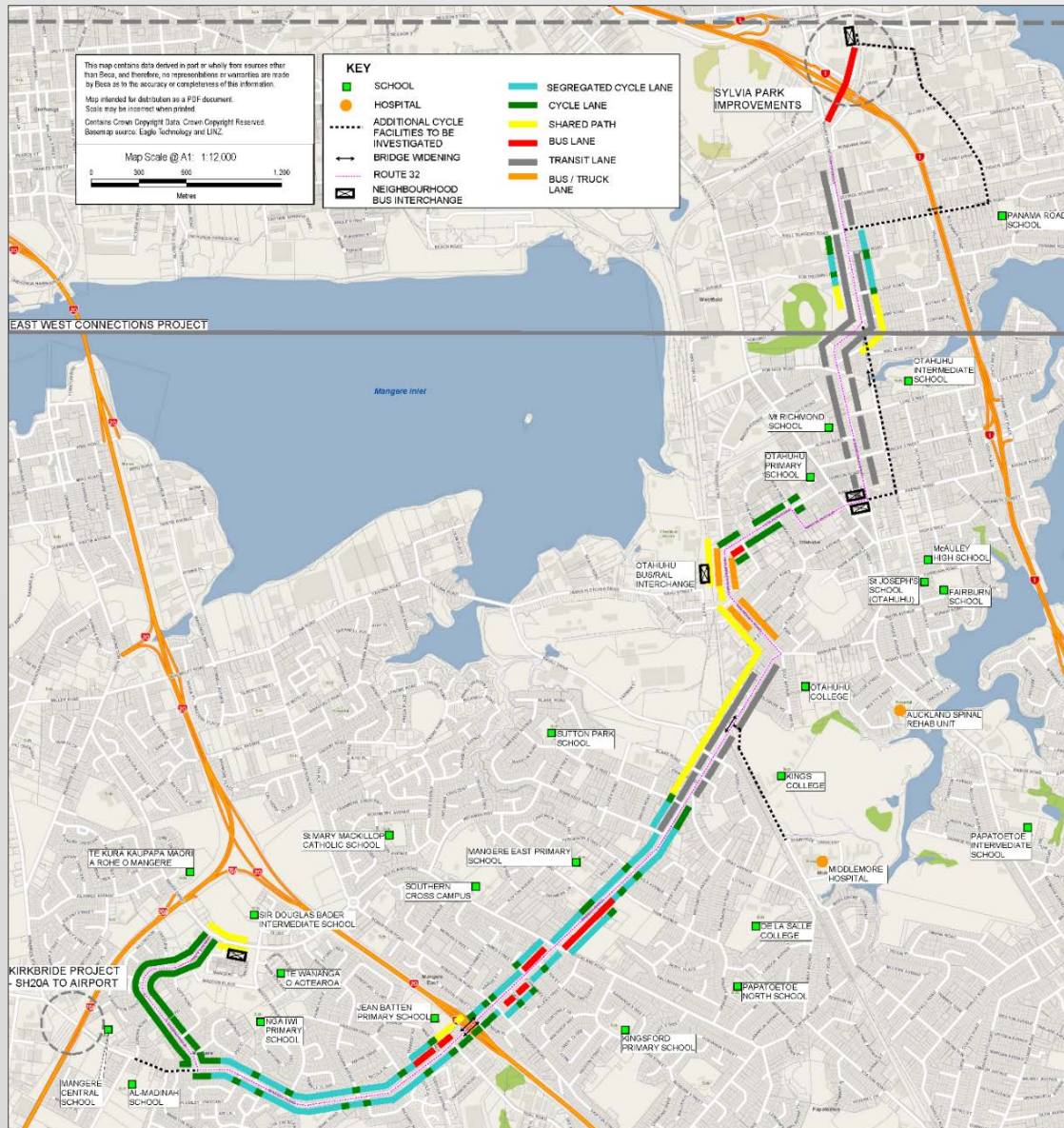
\$90m spent in FY 2017
\$130m including property acquisition

Frequent Network 32



Quad bus shelter, Avenue Road, Ōtāhuhu

Horizontal projects



FN32 project overview

Murphys Road Upgrade



Murphys Road, Flat Bush

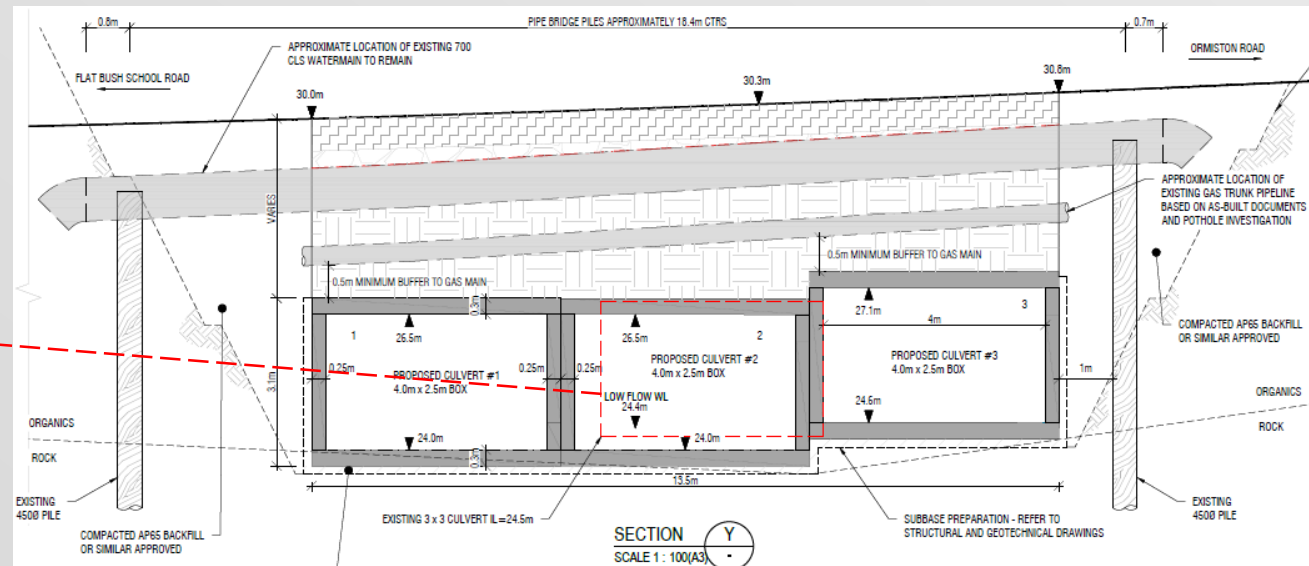
Risk management



Pre-construction risk workshop for the Murphys Road Upgrade

Murphy's law

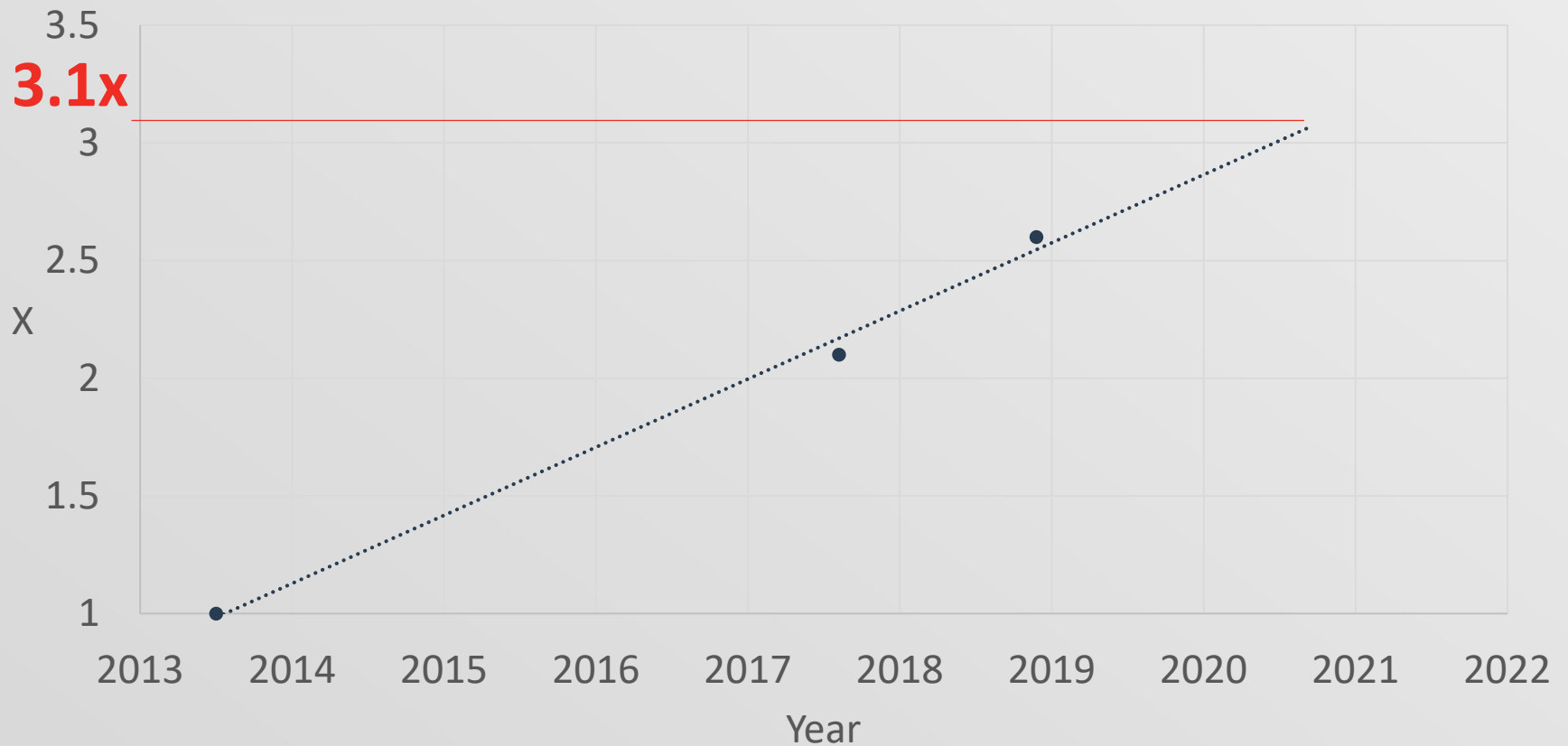
Date of estimate	Construction cost estimate
June 2013 (scheme assessment report)	x
August 2017 (engineer's estimate)	$2.1x$
November 2018 (after construction tender)	$2.6x$



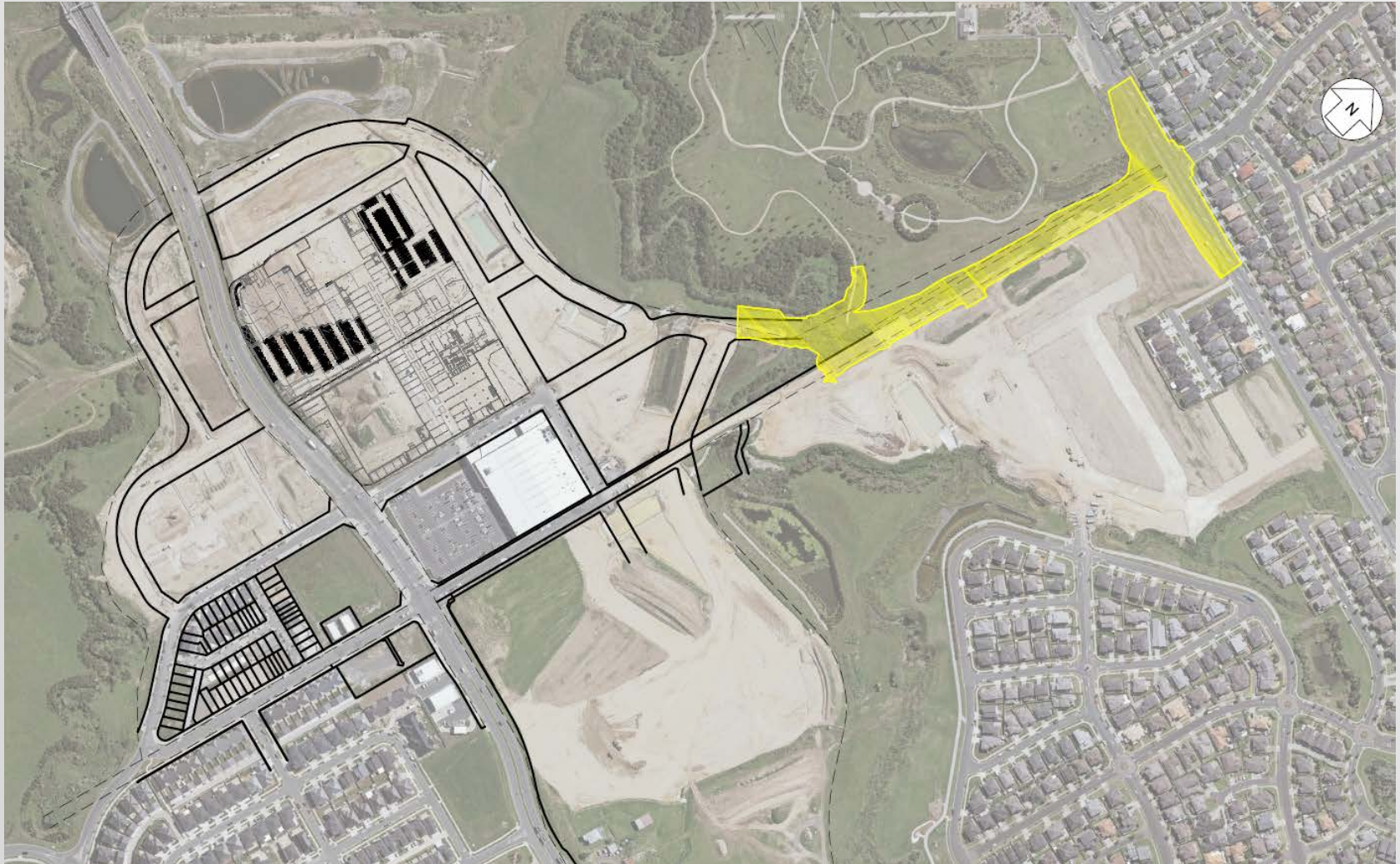
Existing and planned box culverts, Murphys Road

More speculatively...

Construction cost estimate trend



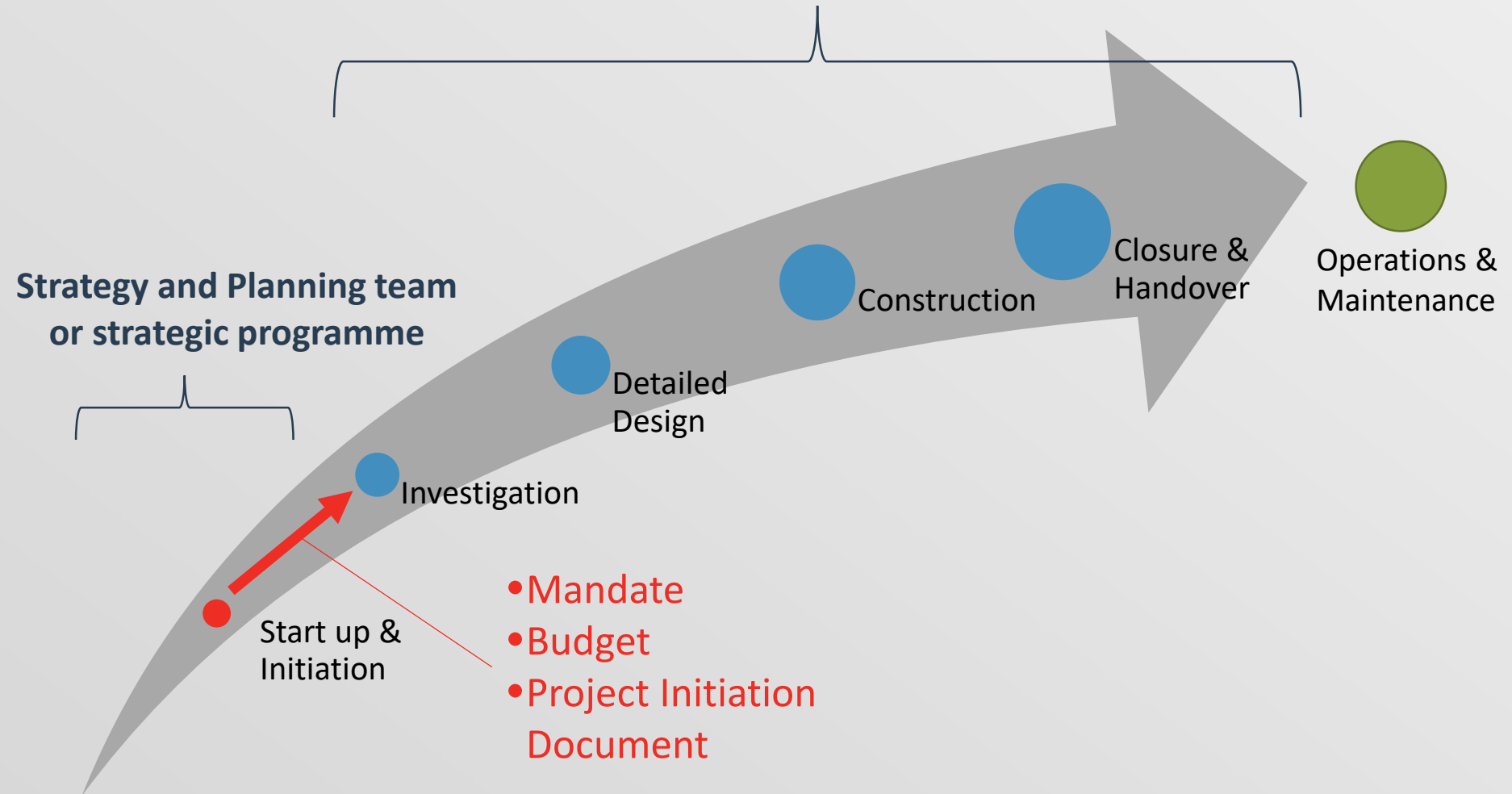
Ormiston Main Street Link



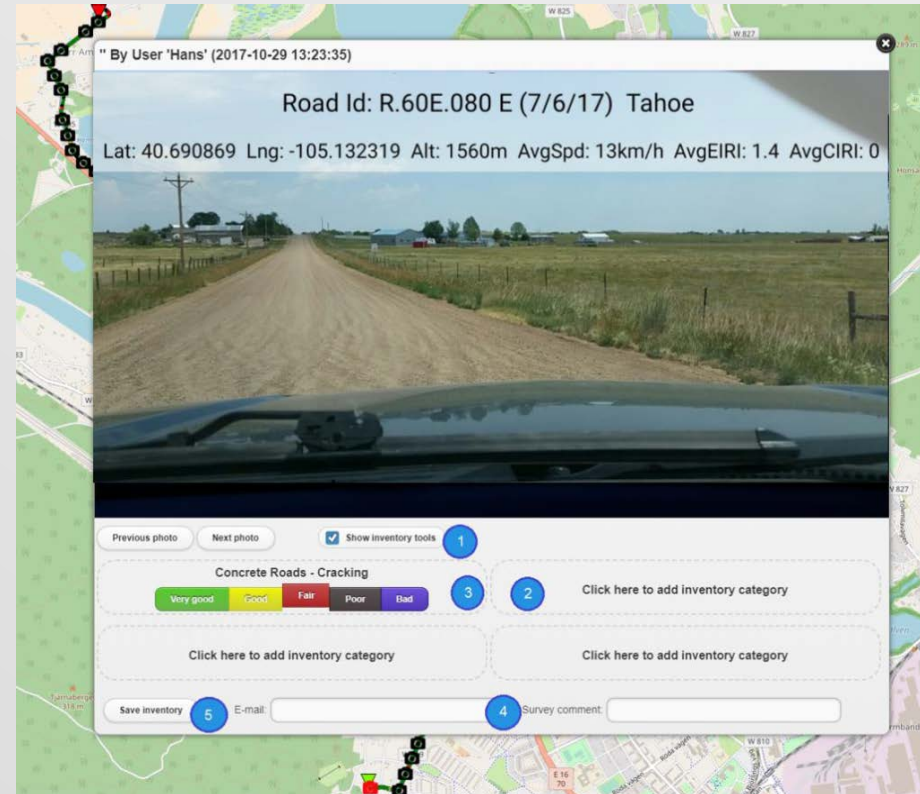
Ormiston Main Street Link project extent

Project Phases

South East delivery team



Masters Research Project



Roadroid mobile application

Thank you