



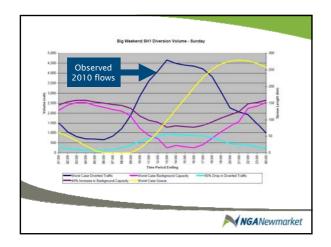


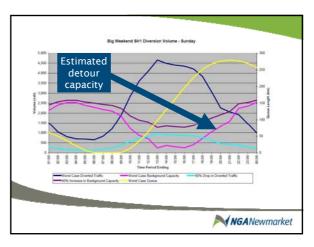


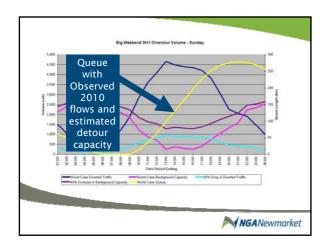


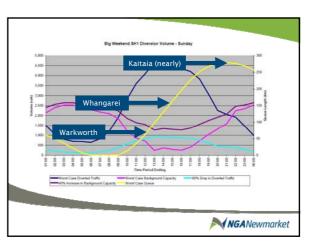
Overview The problem Process Strategy Lessons Learnt

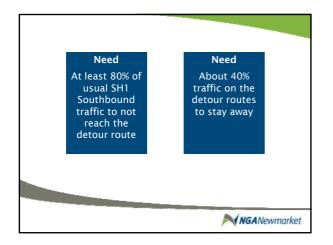
Possible traffic impacts Up to 5,500 veh / hr affected - what was the worst case scenario? No diversion away from SHI No trip suppression on wider network Resulting in: Emergency services affected Access to critical infrastructure impeded Front page news

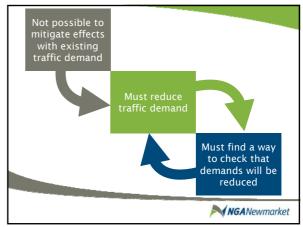






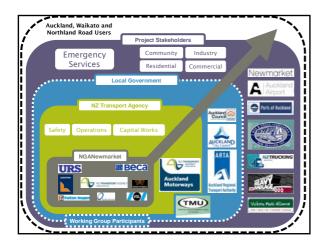


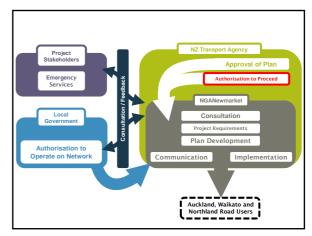




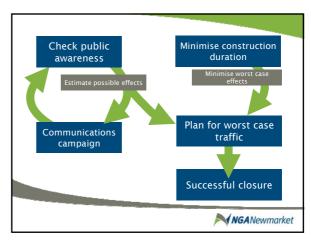


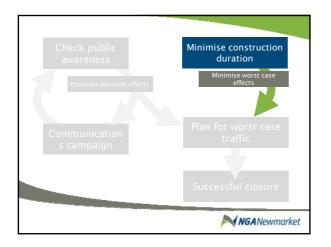
Working Group 12 member team made up of NGA, NZTA, Auckland City, Auckland Motorways Responsible for collaboration and development of the communications and traffic management strategy







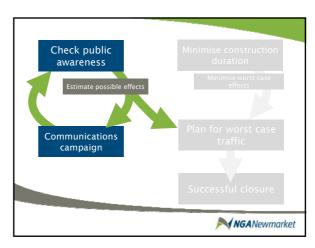




Minimise Construction Duration 15-minute integrated programme between the various teams: Traffic management implementation Gantry shift - mobilisation / demobilisation Gantry shift - gantry preparations Pavement works Detailed review by NGA team and discussion with project stakeholders on timing

NGANewmarket

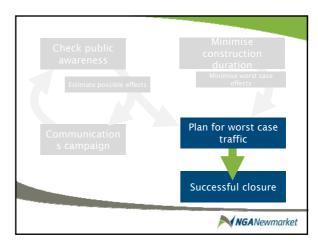










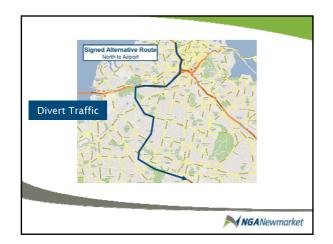


Traffic Management Strategy

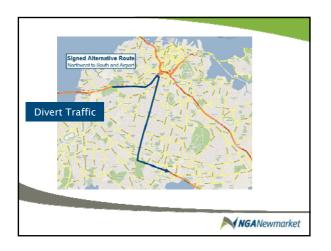
- Divert people before they are trapped in the closure
- Close on-ramps to force traffic onto a range of detours
- $\cdot\;$ Optimise the detour route for remaining traffic

NGA Newmarket





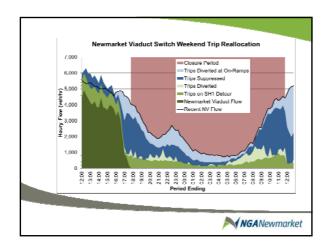












Outcomes of Analysis Gantry VMS were key - indicated by the relative success of diversions on SH16 compared with SH1 Road users will likely follow most direct route (rather than detours) Road users will follow detours more closely at night

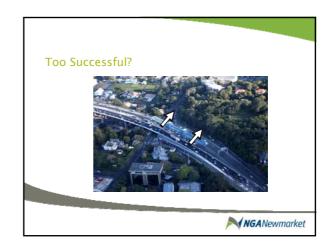
Outcome We estimate suppression of normal trips was around 70% Diversions and detours catered for between 10% and 40% of usual flow Acknowledge free trains certainly contributed to success



Lessons learnt

- Need to define required authorisation to proceed in initial stages
- It will probably take more trips through the 'layers of the onion' than you think
- Communications will be successful if you link them to a physical structure
- Critical to create a feedback loop in your communications strategy





The Working Group

- Jeremy O'Brien NGA Communications and Traffic Management Team Leader (Beca)
- Leader (Beca)

 Pauline Nobbs NGA Traffic Manager (Fulton Hogan)
 Gez Johns NGA Communications (NZTA)

 Tom Newson NGA Project Services Manager (NZTA)
 Graham O'Connell NZTA

- Mark Walker NZTA

 Doris Stroh Auckland Motorway Alliance

 Mitch Tse (Formerly) Auckland City Council

 Erin Marsden (Formerly) Auckland City Council

 Jon Varndell NCA Design Manager (URS)
- Patrick Arnold NGA Construction Manager (VSL) lan Harbeck NGA Project Manager (Leighton)

