



CCRC Transport Network Management

Cassowary Coast Regional Council
Justin Fischer - Manager Asset Engineering
August 2018

Agenda

- ▶ CCRC Road Network
- ▶ Road Maintenance
- ▶ HV Direction
- ▶ HV Access assessment approach

CCRC Region Road Network Statistics

- ▶ 350 km of State Controlled Roads
- ▶ 1200 km of Council-owned & managed roads
 - ▶ 513 km of Unsealed Roads
 - ▶ 622 km of Sealed Roads
 - ▶ 30 Km B-double routes
- ▶ 169 Bridges
- ▶ 139 Major Culverts
- ▶ Approximately 3000 minor culverts
- ▶ 100+km of urban stormwater network

Finance Figures

- ▶ Road, Bridge and Drainage Network Value \$985m
- ▶ Annual Maintenance and Operations Expenditure \$7.75m
- ▶ Annual Depreciation \$9.4m
- ▶ 2018/2019 Planned Capital Works \$10.9m

Network Management

- ▶ Roads are managed and serviced in accordance with a roads hierarchy, that takes into account:
 - ▶ Traffic volumes and types, speed, road hierarchy/function, crash data, asset data, customer feedback
- ▶ Long Term Plan and Annual Budget
- ▶ Natural Disasters and NDRRA

Managing Council's Unsealed Roads

- ▶ Proactive and Reactive inspections of varying frequency
- ▶ Primary focus on roughness (measures) and other defects (visual)
- ▶ Road Hierarchy Approach (high priority on higher order roads with greater traffic volumes)
- ▶ Maintenance History and Condition Assessment used to develop resheeting program
- ▶ Grader Operator and Supervisor Training

Roads Database

► <http://sipv-delta01.ccrq.qld.gov.au/road/maintenance/dashboard>

Road Maintenance Dashboard

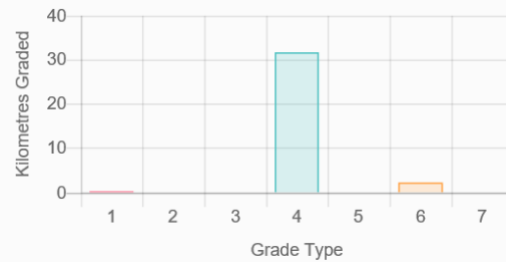
KILOMETRES GRADED IN THE LAST 30 DAYS

\$ 42



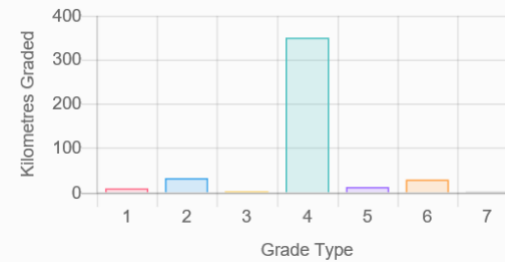
KILOMETRES GRADED IN THE CURRENT FINANCIAL YEAR

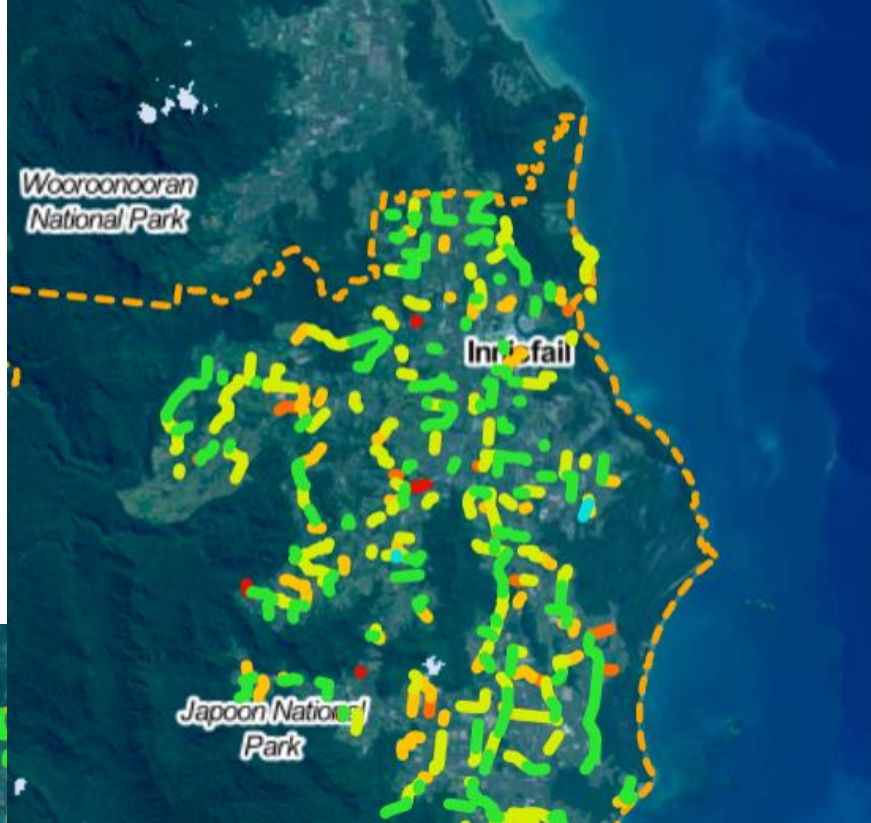
\$ 42








KILOMETRES GRADED IN THE LAST FINANCIAL YEAR

\$ 472








	>= 10 Roughness greater than or equal to 10.	11
	8 - 10 Roughness greater than or equal to 8 and less than 10.	27
	6 - 8 Roughness greater than or equal to 6 and less than 8.	116
	4 - 6 Roughness greater than or equal to 4 and less than 6.	181
	2 - 4 Roughness greater than or equal to 2 and	250



Priority Score

	>= 22 Priority Score greater than or equal to 22.	0
	15 - 22 Priority Score greater than or equal to 15 and less than 22.	3
	11 - 15 Priority Score greater than or equal to 11 and less than 15.	28



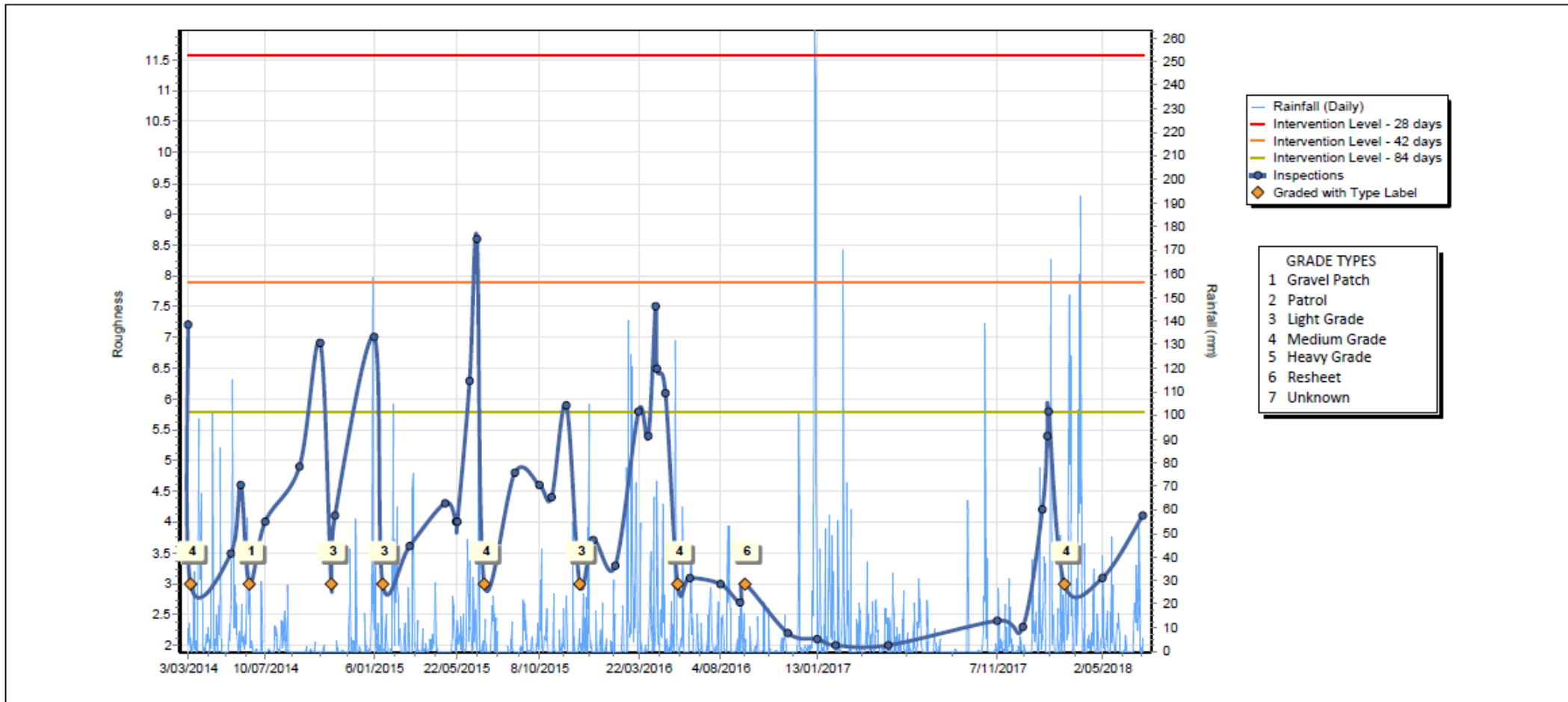
Cassowary Coast Regional Council - Unsealed Road Report

Printed 2/08/2018 6:01:59 AM

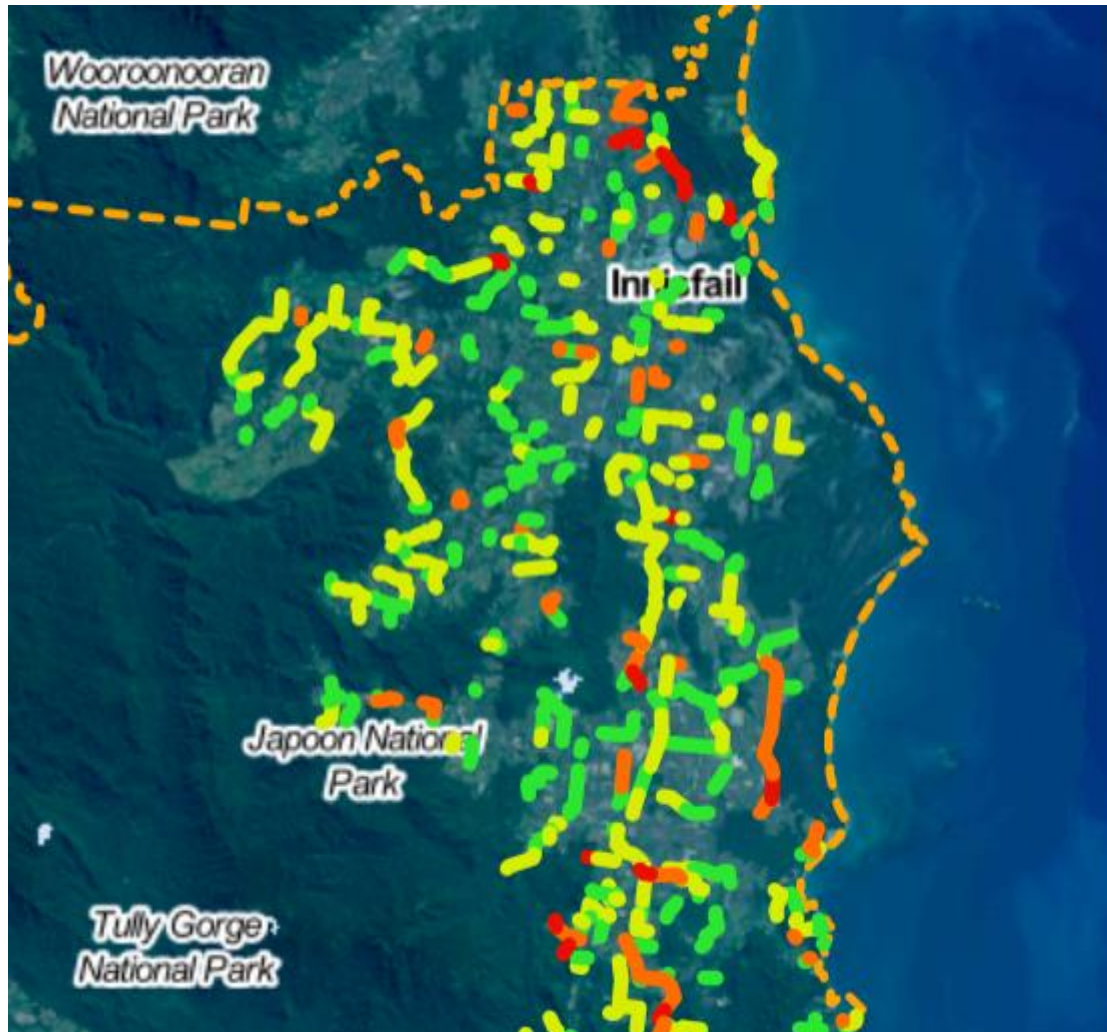


Road ID:	Road:	Locality:	Class:	Section:	Start (km):	Finish (km):	Legend (km):	Start Location:	Finish Location:
1251	Rifle Range Rd	Innisfail	B	1	0.48	1.59	1.11	Start of Gravel	Louis Rd

BOM Station:	Assessment Date:	Sheet Flow to Table Drain:	Appropriate Table Drain Depth:	Water Flows With Table Drain To Discharge:	Road Crossfall Sample (%):	Pavement Depth - Visual:	Subgrade Visible (%):	Pavement Durability:	Unsealed Wearing Course Weighted Condition:	Road Formation Weighted Condition (without Width):
32025	1/04/2017	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④ ⑤	3.5 %	① ② ③ ④ ⑤	0%	① ② ③ ④ ⑤	① ② ③ ④ ⑤	① ② ③ ④ ⑤






Development of Resheet Program



Legend

Legend:

Grading Count (last year) ▾

	Grading Count ≥ 3 Road that have had 3 or more grades performed in the last year.	29
	Grading Count = 2 Road that have had 2 grades performed in the last year.	80
	Grading Count = 1 Road that have had 1 grade performed in the last year.	215

Further Improvements

- ▶ Predictive Analysis
- ▶ Seasonal Factor (adjusting for roads with know cane traffic)
- ▶ Targeted traffic counts to verify road classification
- ▶ Getting more out of the data to identify isolated sections to improve network management
- ▶ Localised improvement projects

Heavy Vehicle Update

- ▶ Updated Ag Notice
- ▶ Improve Efficiency:
 - ▶ Through localised and targeted projects - network considerations - regional economic impact prioritisation
- ▶ Web Tools:
 - ▶ MV access, operators feedback portals, notices and map support
- ▶ Structure Capacity:
 - ▶ Renewed and maintaining access

Northern Coastal Ag Notice Update

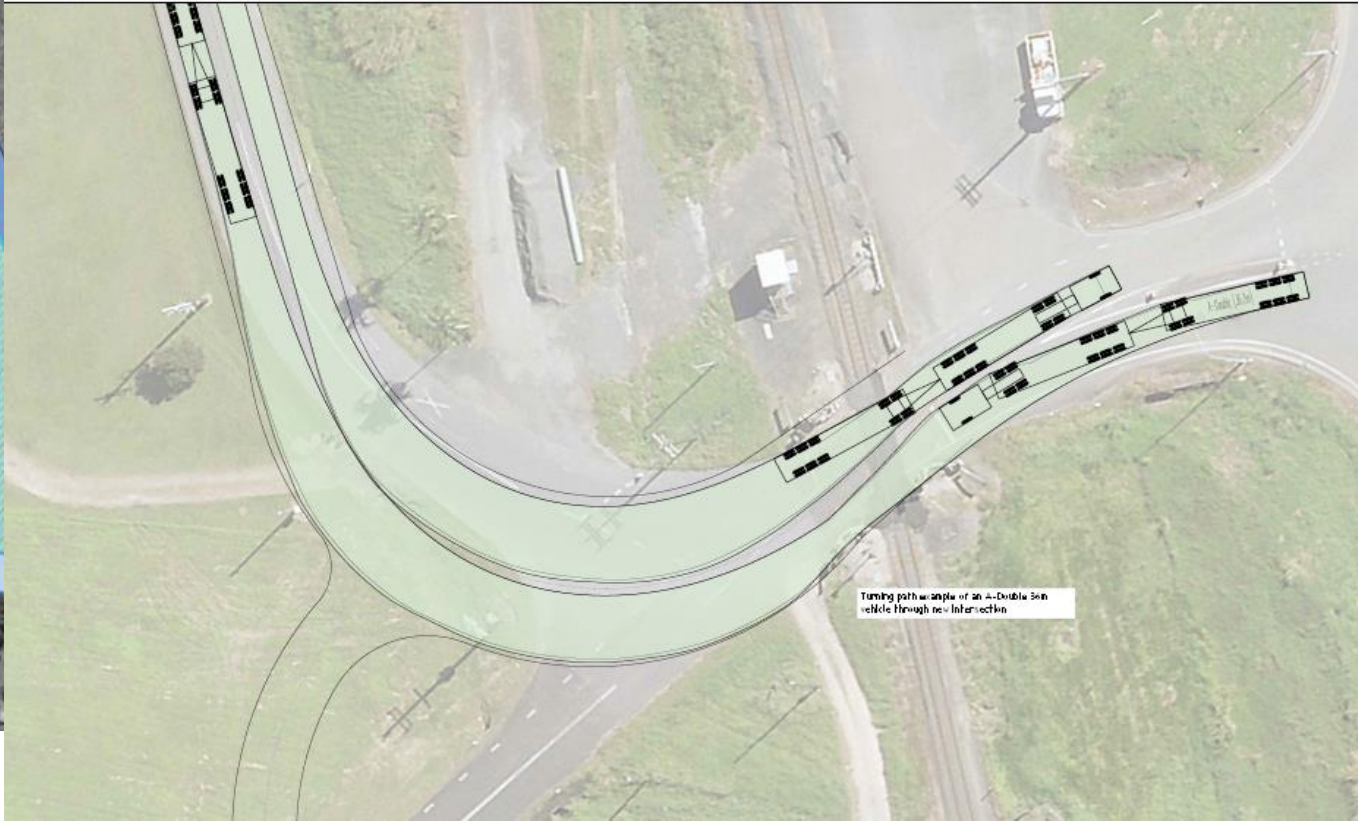
- ▶ Discussion with Canegrowers
 - ▶ Fleet and roads haven't changed significantly and the industry has a good track record for safety
 - ▶ Operator judgement is expected and is to be used to make assessments on the general safety of the movement
 - ▶ Council wants to enable access while limiting damage and risk to infrastructure and the community.
 - ▶ Council values the industry and is willing to work with industry on a measured response that aligns with Council's budgets and the impact of possible access restriction to the broader regional economy.
- ▶ Updated Notice conditions easier to understand and details existing structure dimension limitations clarified

HV Direction - Key Industrial Areas

- ▶ Upgrading of Existing Industrial Estates
- ▶ Encouraging new industry to grow where the infrastructure is appropriate
- ▶ As of right access for 26m B-Double, HML and up to SPV5 Cranes and ready for 30m A-Doubles
- ▶ Immediate benefits to existing operators (routes gazetted)
- ▶ Provides increased development potential and access certainty to investors
- ▶ Grant Applications
 - ▶ Ann Road - Heavy Vehicle Safety and Productivity Program (Awaiting Advice)
 - ▶ Goondi Industrial - Unsuccessful Building Better Regions - Design to be completed and search for investment partner ongoing.



HEAVY VEHICLE SAFETY AND PRODUCTIVITY PROGRAM
ANN ROAD INTERSECTION PROJECT



Keeping the Network Open

- ▶ High Priority is maintaining the current Level of Service (Access)
- ▶ Network/Risk based prioritisation
- ▶ Culvert Renewals
 - ▶ Replacement
 - ▶ Upgrade (where possible and beneficial)
 - ▶ Relining (reduced interruption)
- ▶ Bridge Renewals and Upgrades
- ▶ Industry Feedback considered in renewal prioritisation

Targeted Network Upgrades

- ▶ Improve Efficiency:
 - ▶ Through localised and targeted projects - network considerations - removing bottlenecks, identifying minor works that may provide big returns
 - ▶ Regional Impact and Priority. Understanding the value to Industry and the Economy.
 - ▶ Opportunity for partnerships or collaborative approach to approvals where benefit is localised.
- ▶ Comparing the benefit to the increase to the asset base and increased costs
- ▶ Industry Feedback

Site Specific Feedback

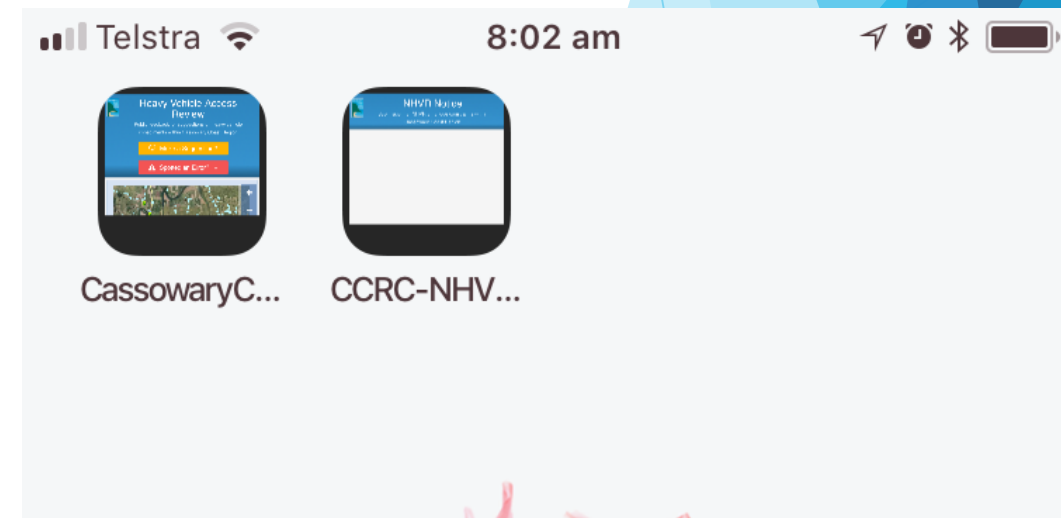
- ▶ Breaking the network and roads down (*be targeted*)
- ▶ Understanding any bottlenecks (*be specific*)
- ▶ Identifying cost effective solutions (process, maintenance, minor upgrades) (*be focused on the outcome*)
- ▶ Understand the economic impact/benefits (based on figures) (*be measured*)
- ▶ Regional Prioritisation (*be strategic*)

Using Technology



▶ Web Tools:

- ▶ Ag Notice notices <http://ccrc.assetreview.com.au/nhvrnotice>
- ▶ Industry feedback portal <http://ccrc.assetreview.com.au/heavyvehicleaccess>
- ▶ Coming Soon - SPV map of restricted structures



CCRC HV Assessment Process

- ▶ Assessments Informed by:
 - ▶ Guidelines for Assessing Heavy Vehicle Access to Local Roads
 - ▶ Guidelines for Multi-combination Vehicle Route Access Assessment
 - ▶ Route Assessment Guidelines for Multi-Combination Vehicles in Queensland
 - ▶ ARRB Risk Based Guidelines (in development)
 - ▶ Asset Data (condition and capacity)
 - ▶ Judgement
- ▶ Assessment approach:
 - ▶ We have looked - physically or DVR
 - ▶ We will ask questions asked are relevant and specific
 - ▶ We want to understand the movement
 - ▶ We will discuss proposed controls, understand operators knowledge, discuss whether procedural controls can be used if infrastructure capacity is exceeded.

CCRC HV Assessment Process

- ▶ Staged approach to understand and manage risk:
 - ▶ Trial
 - ▶ Permit
 - ▶ Pre-approvals
- ▶ Understanding the Value
 - ▶ Request information regarding movement, frequency, product, benefit, willingness for operator/receiver to consider procedural controls or contribute to upgrade of deficient infrastructure, regional economic benefit.

Applying for a Permit or More Information

- ▶ Cassowary Coast Regional Council website or call:
 - ▶ <http://www.cassowarycoast.qld.gov.au/council-roads>
 - ▶ 1300 763 903
- ▶ National Heavy Vehicle Regulator website or call:
 - ▶ <https://www.nhvr.gov.au/>
 - ▶ 1300 MYNHVR (1300 696 487)



Questions?



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