



Benefits of Asset Management

Virginia DOT define new pavement and bridge performance measures, and set sustainable long-term targets. This process delivered improved outcomes through: IN STRUCTURALLY DEFICIENT **SAVINGS PER YEAR BRIDGES AFTER 30 YEARS**



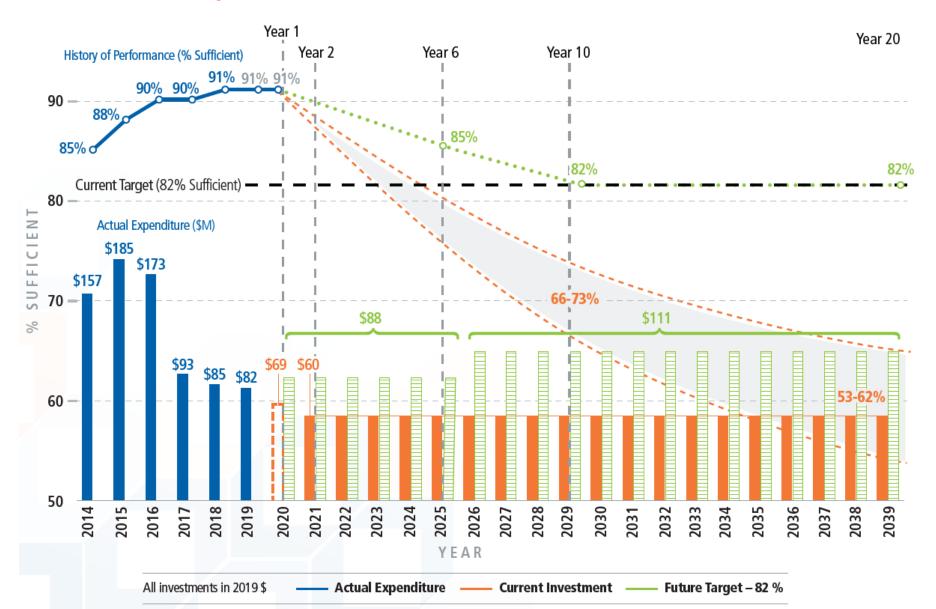
How did they achieve it?

- Undertook long term projections
- Considered a range of possible outcomes
- Presented a plan to the Commonwealth Transportation Board





How did they achieve it?





Todays Discussion

— What decisions are agencies grappling with internationally?

— What can we do as a next step?

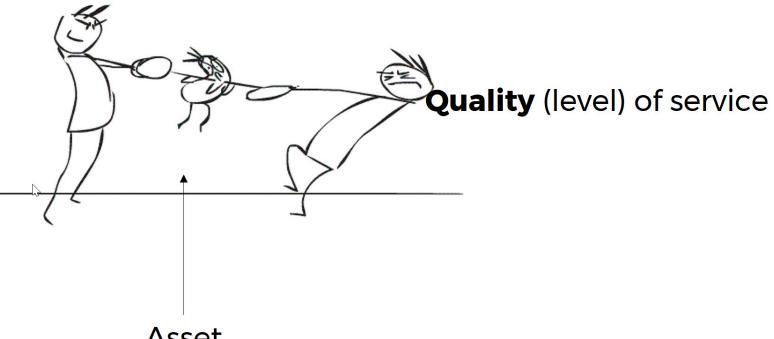
"A good plan today is better than a great plan tom orrow."

General George S. Patton



Asset Management

Cost of service







Asset Management

Cost of service

Quality (level) of service

Asset

Management



Objectives of the Organization (e.g. DOT Mission)

- Providing the highest quality integrated transportation services for economic benefit and improved quality of life.
- Our mission is to plan, deliver, operate and maintain a transportation system that is safe, enables easy movement of people and goods, enhances the economy and improves our quality of life.
- Our mission is to provide the safe and easy movement of people and goods from place-to-place.



Focus on outcomes



Condition Assessment and Certification Process



Physical Condition

Condition of asset Degradation

Compliance

Legislation Regulations Standards

Environmental Impact

Passengers Staff

Safety

Ability to perform safely

Service Delivery

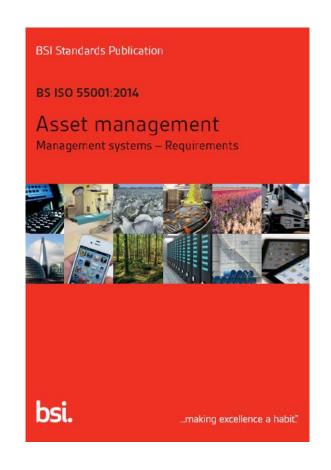
Reliability Availability

Others

Any issue affecting 'fitness for purpose'



ISO-55001Asset Management



VALUE

Valuations
Financial return
End user / community satisfaction
Social benefit

ALIGNMENT

Business objectives
People / processes / outcom es
Level of service definition / achievem ent
Asset managem ent culture

ISO 55001 Fundamentals

LEADERSHIP

Governance
Asset management policy / strategy
Roles / responsibilities
Resources

ASSURANCE

Perform ance monitoring / actions Forecasting future condition / costs Risk / change management Reliability / effectiveness



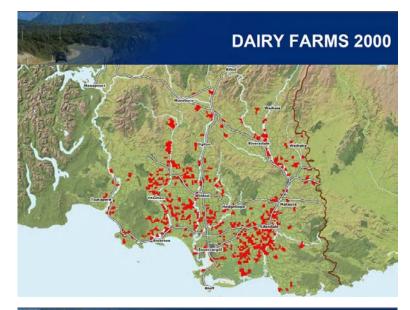
Purpose of the network



Southland New Zealand – Challenges

— Needed to change from 'business as usual' network management to a more focused approach to deliver a fit for purpose road network.

— The first step in determining what fit for purpose means, is to understand what the road is for.







What is the role of the road network?

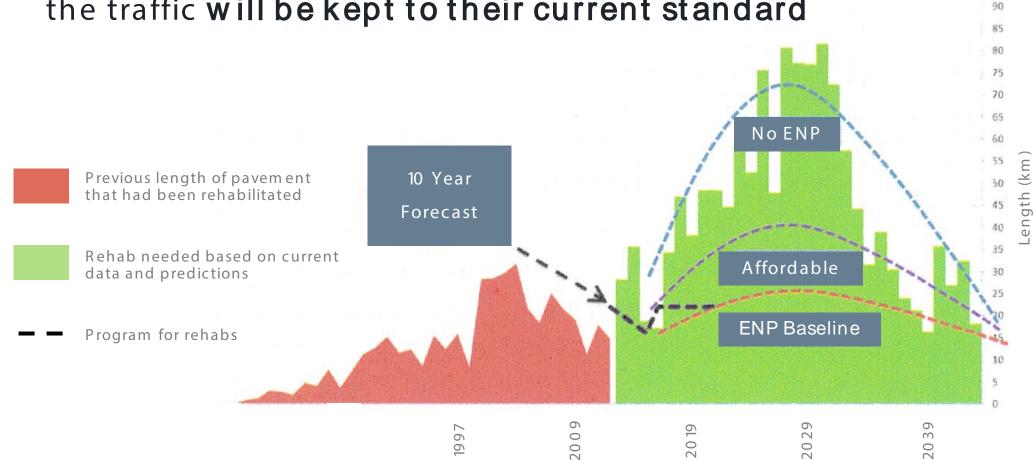
Economic Road Network Plan data inputs:

Economic Flows	Outputs in value of export receipts per annum
Land use	Export value calculated per hectare per annum
Whole life cost of assets	Annualized maintenance costs plus depreciation
Vehicle flows	AADT
Crash information	Social cost of safety
Emergency Management Considerations	Emergency events, lifeline infrastructure, historic flood records, liquefaction assessments



Data and Strategies Supporting Difficult Decisions

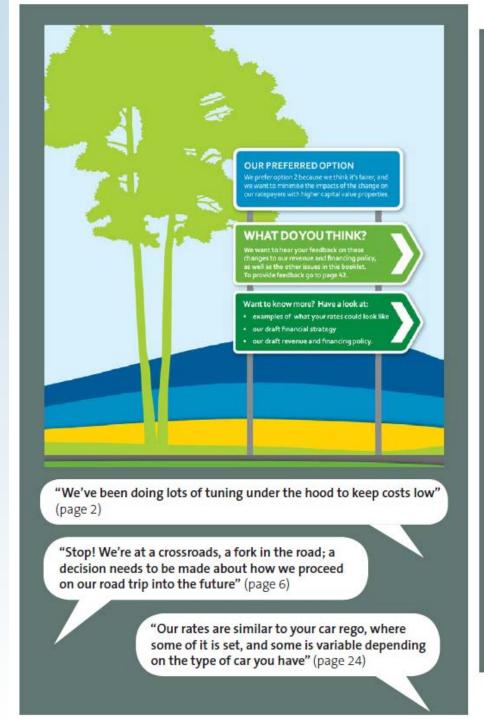
— Decision made that only 20% of roads that carry 70% of the traffic will be kept to their current standard





Stakeholder buy-in









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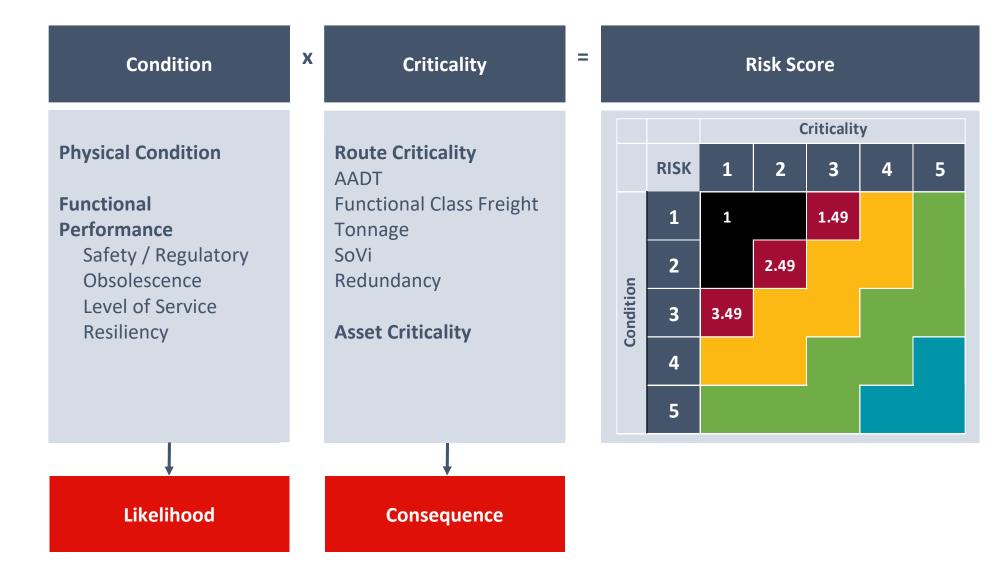




First step beyond condition?



Maryland DOT – Risk Framework





Sum m ary

— Understand the objective – what do we want the assets to achieve

 Have a plan that addresses long term needs and outcomes

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