Beyond the Golden Triangle

Program Controls and Delivering Outcomes



A little about me



Christopher Reynolds SVP Practice and Capabilities

- 20 years in the British Army
- 20+ years in management consultancy and infrastructure programme management
- Leadership roles in iconic major programmes



Some Definitions – terminology is important

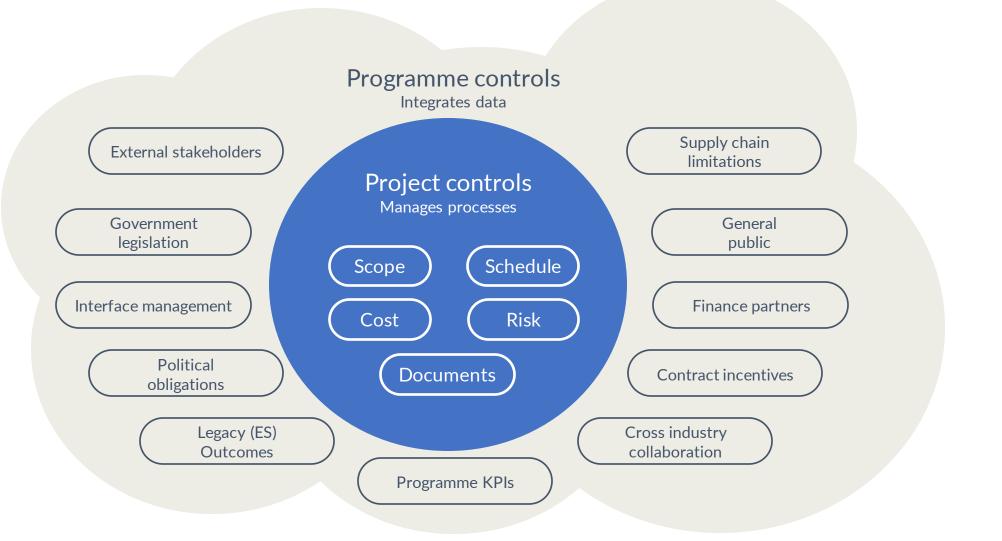


What's the difference between project and programme management?

A project: A temporary endeavour undertaken to create a unique product or service A programme: An <u>organisation</u> comprising mutually complementary projects created to solve a common, complex goal AECOM differentiated approach: Integrating disciplines during initiation, coordinating interfaces, and creating ownership among stakeholders



What is programme controls?





The key to successful programme delivery



6 key themes influencing programme success



Project Controls

Melbourne. Australia

1. What are the causes and cures of poor megaproject performance? A systematic literature review and research agenda; Denicol, Davies and Krystallis, 2020



Outcomes – how do we measure success?



Addressing clients' needs by focussing on desired outcomes

Holistic approach

- Programmes focus on the realisation of **outcomes** achieved though the integrated delivery of multiple projects/initiatives.
- This approach is the best way to address emerging challenges our clients face, which are multiple, overlapping and often suffer from **conflicting solutions**.
- Programmes enable wider thinking, planning and execution which consider all these elements.

Programme Management

Outcomes focus

- Delivery to time, cost and quality are no longer sufficient to claim success.
- Stakeholders, with more influence than ever before, demand to understand the wider implications of change – social change, equity outcomes, community economic growth – why are we doing this?
- Programme Management focuses, with equal rigor, on the realization of these outcomes as well as the delivery of the assets which enable them.

Integration and collaboration

- Complex, large-scale challenges require input and solutions from **multiple best-inclass providers** to be most effectively resolved.
- In full flow, programmes are **complex networks** of projects, initiatives and supply chain organisations.
- Programmes create **sense and purpose** by creating organizations which are fully integrated and highly collaborative in culture.

Project Conti

How do we define 'outcomes' – some examples

Our strategic goals

HS2 represents a significant investment by the UK taxpayer, which is why the HS2 Project has always been about building more than a railway. Our strategic goals provide seven areas of focus:

Sustainability and respect	<u></u>
Health, safety and security standards	\square
Skills and employment	
Customer experience	Ê
Value for money	£
Capacity and connectivity	Ø
Catalyst for growth	ூ

The Benefits of Lower Thames Crossing

Quicker, more reliable journeys – The Lower Thames Crossing will almost double road capacity across the Thames east of London. The new route will have a maximum speed limit of 70mph. It will provide quicker, more reliable journeys locally and regionally between Kent, Thurrock and Essex, as well as nationally. This will help meet the demands of future traffic growth east of London.

Connecting communities and business – The Lower Thames Crossing will create better access on both sides of the river. This will improve journey times and reliability for communities and businesses, whether travelling short distances across the Thames to visit family or looking for better access to job or business opportunities.



2.7 Project benefits

Sydney Metro City & Southwest will provide a range of high-value benefits to Sydney and NSW.

2.7.1 Transport benefits

- Enables the longer-term development of the Sydney rail network through increasing rail network capacity.
- Supports forecast growth in rail patronage from 168,400 to 288,000 trips in the one-hour AM peak by 2036.
- Increases total rail network capacity available on the network by 60 per cent (through the addition of ultimately 60 high-capacity metro train paths each hour allowing more passengers to be carried).
- Delivers 31 per cent more train services in 2024 (40 additional services in 2024) than if the project is not implemented.
- Transfers 20,000 private car trips to rail in

- \$8,562 million per annum additional value add in 2036, from increased co-location and productivity of businesses and workers in the corridor.
- Stimulates 44,245 additional jobs in the corridor by 2036.
- Between \$721 and \$1,761 savings per annum in 2036 for households through reduced cost of living (medium- or high-density dwellings in transit-oriented developments have a lower average consumption profile of electricity, gas and water).

2.7.3 Key economic benefits

- Total economic benefits of \$62,120 million (real), \$12,988 million (present value).
- Transport economic benefits of \$9,118 million (present value).
- Productivity or wider economic benefits of \$2,713 million (present value).



Provides customers with significant travel time savings and increased reliability and comfort.

- Reduces train crowding and crowding at key stations, including Central, Town Hall, Wynyard and North Sydney.
- Reduces traffic and bus congestion across
 Sydney Harbour and into the CBD.
- Improves transport network resilience on the lower North Shore and through the CBD.
- Enhances customer satisfaction for those travelling within the Global Economic Corridor and on the T3 Bankstown Line.
- Enhanced safety features.

2.7.2 Key city building benefits

 Peak additional employment during the construction period of 6,233 workers.



Programme Vision

A description of a better future



LA 2028's vision for the Games is to create a grand partnership among the city's stakeholders that sets the standard for sustainable mega-events everywhere, and makes that knowledge universally accessible and applicable

Moving London Forward





HS2's vision is to be a **catalyst for growth across Britain**. HS2 will form the backbone of our rail network. It will free up space on our existing railways for more commuter, regional and freight services



Programme Vision to Benefits

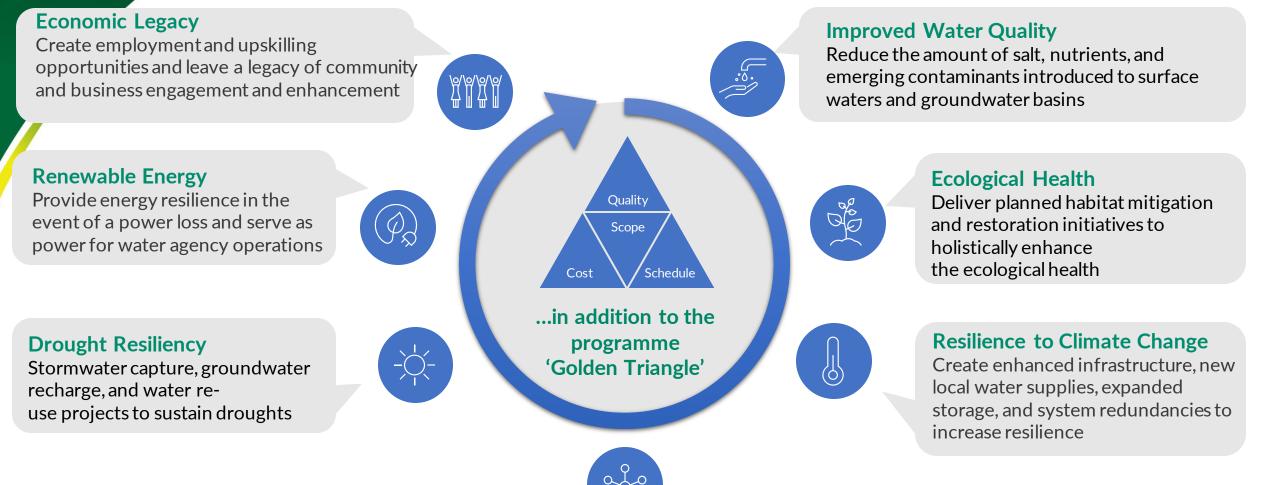
 Benefits are the measurable improvement resulting from an outcome perceived as an advantage by one or more stakeholders, which contributes towards one or more organisational objectives

Benefits

- The result of change
 - Economic growth
 - Longer Life expectancy
 - More time for work and leisure



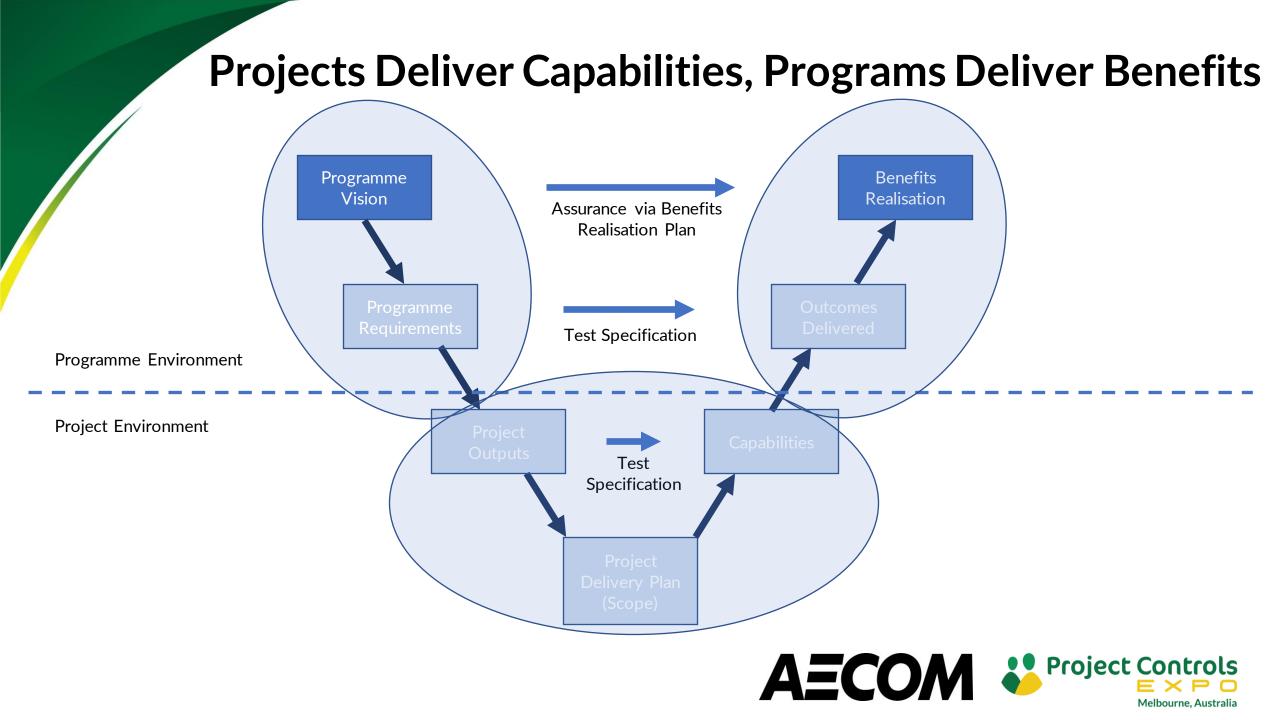
Programmes need to measure a wide range of outcomes



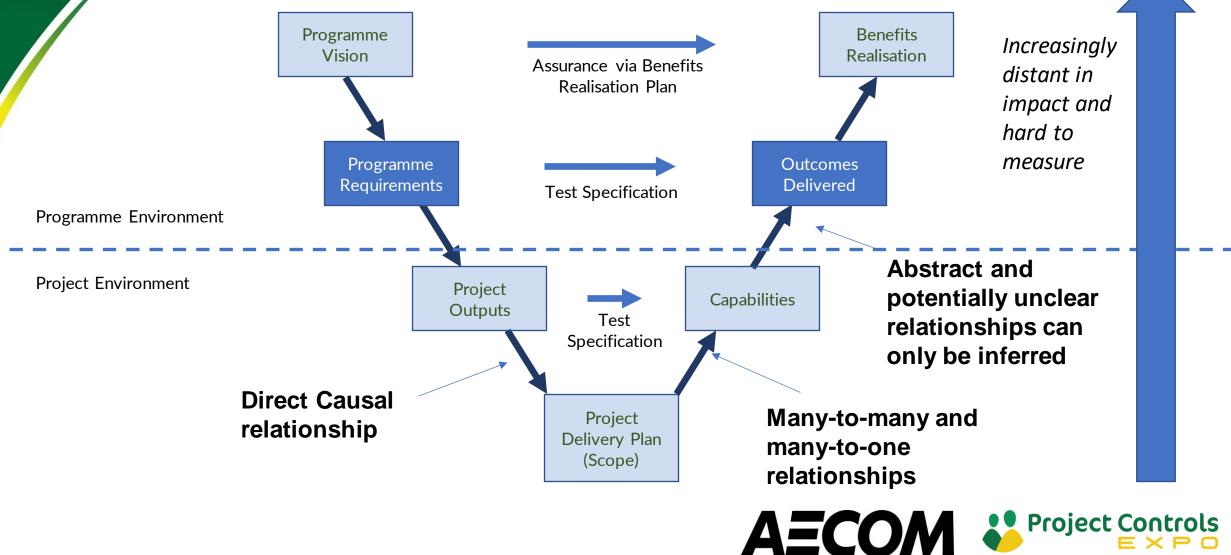
Infrastructure Enhancements

Modernize existing infrastructure, combined with new conveyance, to enable more efficient use of water resources





The challenge lies in the relationship between capabilities and outcomes



Melbourne. Australia

Measuring outcomes can be challenging

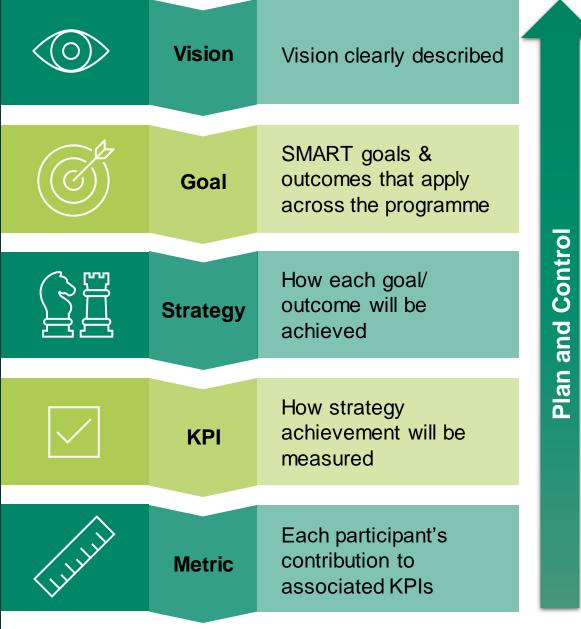
- Unlike well-defined controls measures cost, schedule, change, etc, tracking outcomes data can seem challenging
- It has been done:
 - Reduction in carbon by FIFA World Cup Qatar
 - Sustainability at London 2012
- Our profession and clients can be guilty of overly focussing on what we know best and hurts most during construction
- The challenge is related to variability, poorly defined sources, and a lack of *obvious* quantifiable measures



Measure and Report

At AECOM, we measure performance by outcomes, alignment to vision, and benefits to stakeholders

- Outcomes and benefits, including <u>scope, cost, and</u> <u>schedule</u> are factored into decisions over the life of the programme
- <u>Cost and schedule</u> are important factors but not to the exclusion of **outcomes** and **benefits**
- Quantifies and allocates appropriate outcomes to participants (Owner) to transparently and objectively monitors, measures, and reports
- Need a <u>comprehensive centralized programme</u> <u>delivery controls, progress and performance</u> <u>tracking and reporting approach and tool</u> geared to targeted audiences and requirements



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THANK YOU

