"Advice and the Portfolio SRO" A personal view

Dr Dai Morris

Complex Weapons Program Senior Responsible Owner

Overview of 'WECA' responsibilities

- Government Major Project (GMPP) SRO
 - ~£16Bn, ~£1Bn p.a. capital and services expenditure
 - Technology, safety, environmental considerations
 - Operating on 2 World Heritage Sites, >50 SSSIs
 - Sensitive Economic Area / Skills / Industry impacts
- Very diverse stakeholders
 - Significant SME & Major Prime contractor engagement
 - Numerous International dependencies
 - Geographically dispersed St Kilda to Washington DC
- Only one of 7 SRO Major Portfolio key risks is technical
 - (and that one is about rocket science...!!.)

The CWP is no different to any GMPP activity

A personal view to promote debate

- Based on being a Portfolio Capability SRO
 - Not a Project Manager
- And (I hope!) an expert 'customer' of advice:
 - Commissioning
 - Engaging and shaping
 - Interpreting
 - Actioning
- Success is about everyone seeing it from the other side
 - "If only I knew that before"
 - "I might try that next time"
 - "So that's what you mean"

A personal view, from a specific SRO viewpoint

Projects and Portfolios

- Many different definitions, but...
- Projects live in a defined input / defined output world
 - Project Managers minimize externalities
 - Constants are, Variables must be managed
- Portfolios live in a complex, moving world
 - The key is maximizing overall benefit
 - Constants aren't, Variables are not predictable
- Uncertainty is a fact
 - Advice must embrace uncertainty in input, assumptions, tools & methods and value

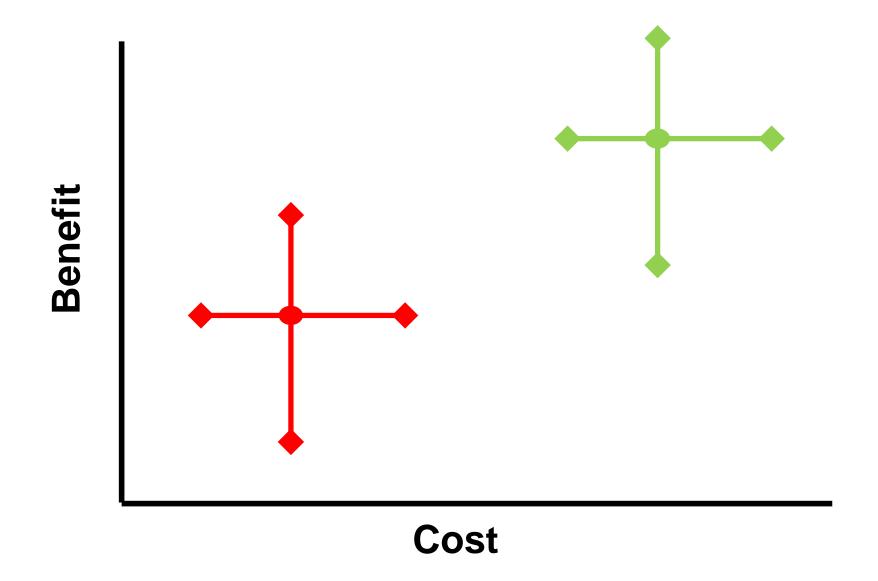
Absolute advice will be treated with suspicion

A Good Member of the Portfolio Community

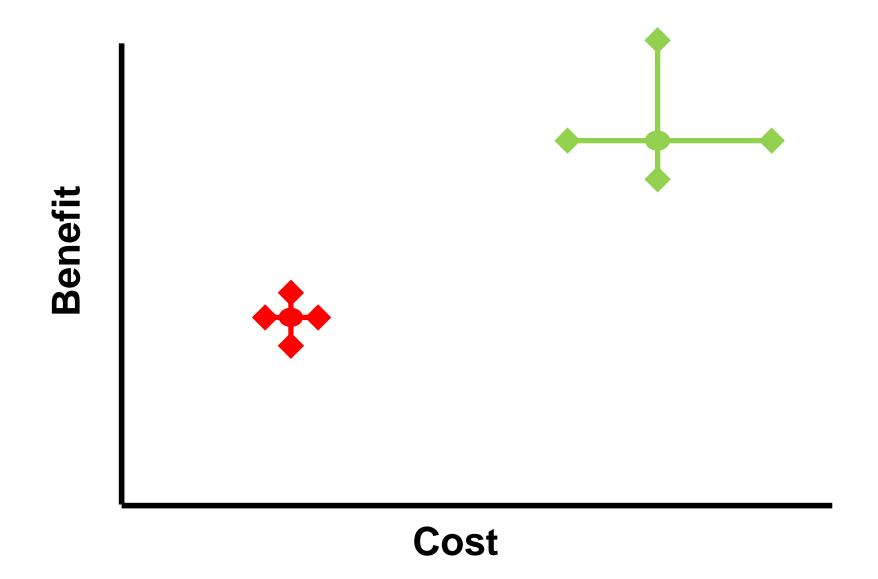
- We live in a resource constrained world
 - Everyone can find good things to do, which pass the Benefit / Value for Money test
- The key is maximizing benefit overall to the portfolio
 - The top few % of ideas which should get funded
- It is essential to reward donors as well as achievers
 - A PM who agrees to not do something so others can get more resource is at least as important to success
 - Enabled by a clear coherent vision, and an appropriate reward culture
- The Portfolio Community should be 'self organising'

Advice must reflect value of actions and inaction

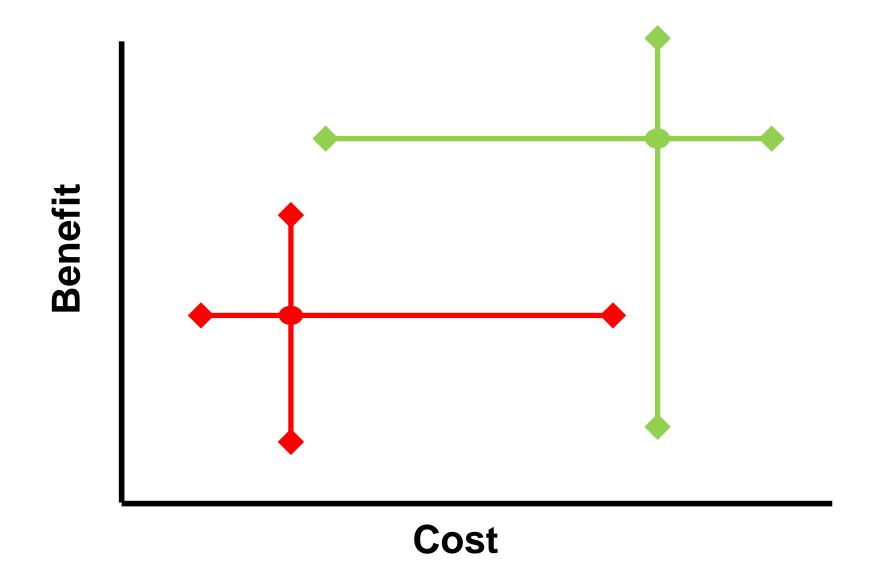
Some Simple Benefit – Cost plots



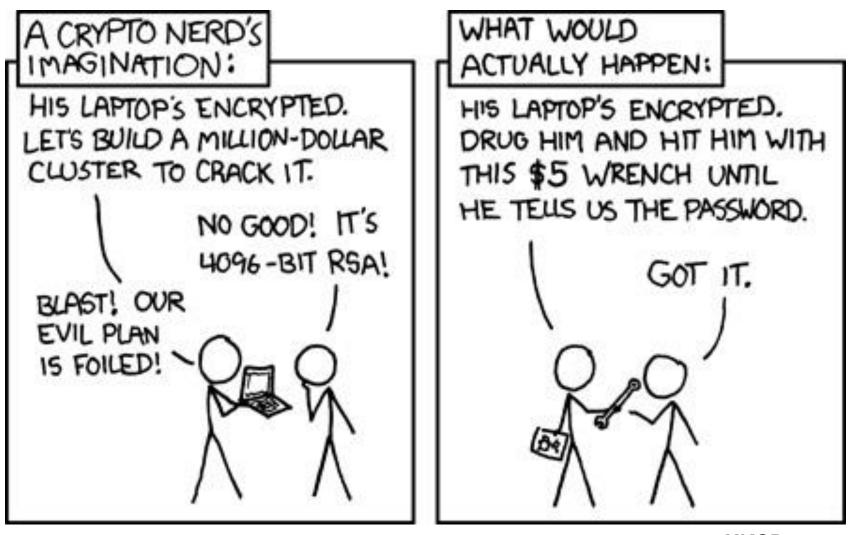
Some Simple Benefit – Cost plots



Some Simple Benefit – Cost plots

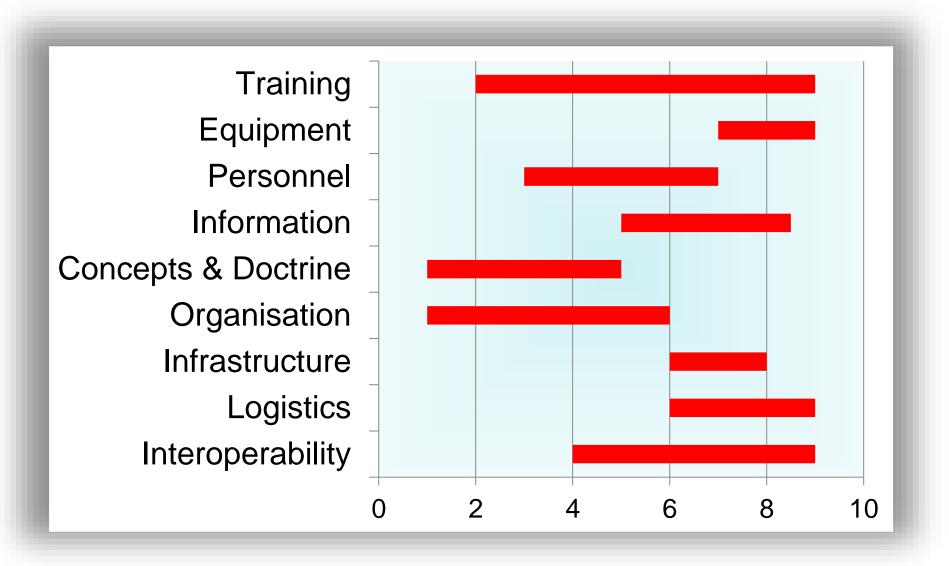


Don't forget the non-equipment dimension

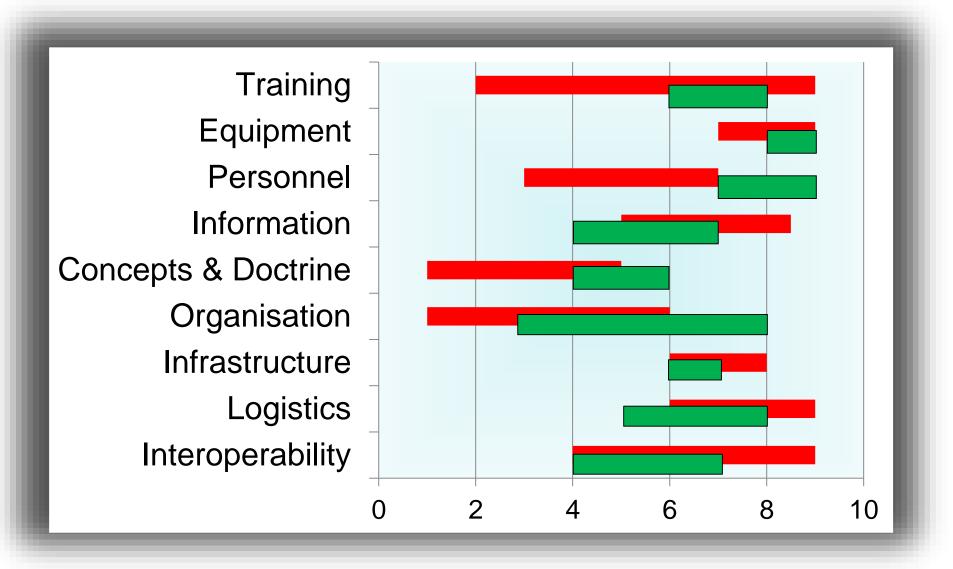


XKCD.com

How Good are we at modelling DLoDS?



ITEA Audience Response

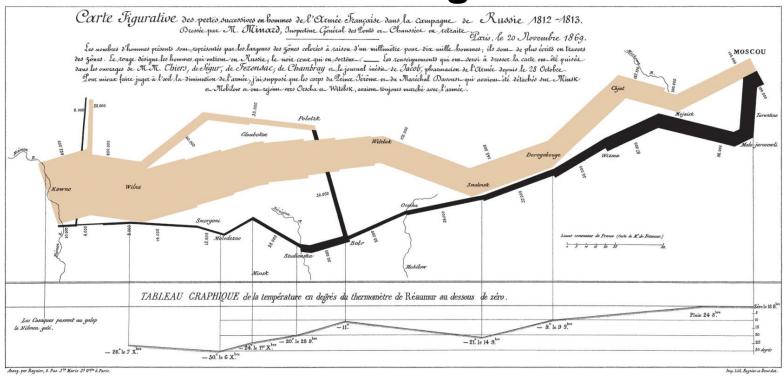


Assessing pan-DLoD / Through Life

- Everyone knows equipment performance is not all
- but....
 - Through Life Support assumptions dominate
 - Red Force Capabilities emerge and develop
 - Operational Context changes (sometimes rapidly)
 - 'Survival of the unfittest' is a real problem
- How good are we on advising pan DLoD trades?
- Does the high level PEST-like analysis percolate down?
- How demanding is the SRO on this issue

Capability Advice must be pan-DLoD, through life

Provide understanding not data



Edward Tufte: "The Visual Display of Quantitative Information"

- SROs are simple people (remember the '3 year rule')
- Understand the Decision Space
 - Requires joint, close working and iron analytical will!

Communication is everything – focus on the few keys

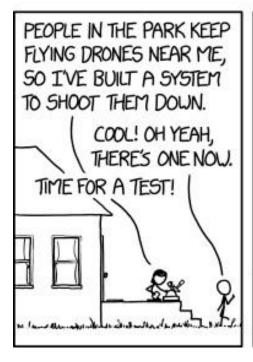
Surface Bad News Early

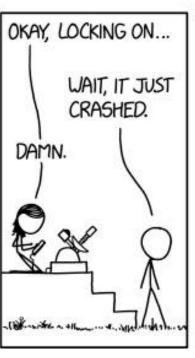
- Everyone says this but....
 - Leadership tone and behaviors are key
 - Punishing the messenger is a quick path to disaster
- You must value honesty over the potential wreckage
 - But competence also must be valued

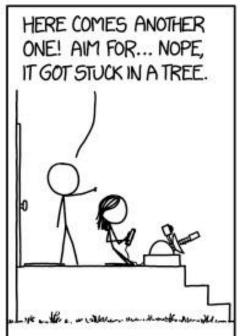
- The 'Umbrella model
 - The leadership shelter the teams from the rain..
 - They get wet, to allow others to do their job
- But you only 'enjoy the umbrella' if you are a good member of the portfolio community......

The Leader is an umbrella, not just a figurehead

Take a realistic view of the threat









XKCD.com

A 'Not Uncritical Friend'

- Fundamental difference between a 'critical enemy', and a 'not uncritical friend'....
 - One seeks to destroy, the other to improve
 - It can be difficult to tell the difference
- Success requires bidirectional trust
 - Especially if engaging outside the portfolio
- And it takes time to develop the skills and courage
- Emphasize the adage:
 - "There is no such thing as a dumb question but there are dumb and / or insulting answers"

Everyone needs to embrace their Critical Friends

Final Thoughts.....





You are here

"Advice and the Portfolio SRO" A personal view

Dr Dai Morris

Complex Weapons Program Senior Responsible Owner