



'Take home' messages

 "We cannot solve problems at the same level of thinking that we were at when we created those problems."

(Albert Einstein)

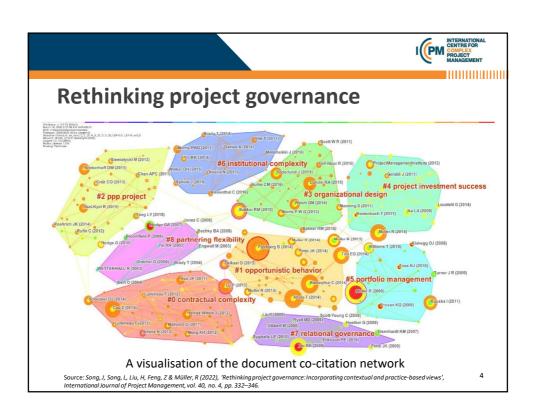
- "The 21st century is the century of complexity."
 (Stephen Hawking)
- "A good governance structure does not guarantee good outcomes, but a bad structure will most likely diminish project success!"

(Project Governance, Victorian Government, page 7)



Governance considerations: traditional vs complex projects (the 'What' and 'Why')

Considerations	Traditional Projects	Complex Projects
Project Environment	Stable and predictable	Uncertain and dynamic
Decision Making	Centralised decision making based on predefined processes	Decentralised decision-making, adaptability and flexibility
Stakeholder Engagement	Fewer stakeholders with well-define roles and responsibilities	Diverse stakeholders with varying interests and perspectives
Planning and Control	Emphasis on detailed upfront planning and strict control	Iterative planning, adaptive control, and ongoing adjustments
Risk Management	Focused on identifying and mitigating known risks	Emphasis on identifying and managing uncertainties and emerging risks
Project Leadership	Directive leadership style	Adaptive leadership style
Communication	Formal and structured communication channels	Open and transparent communication, fostering collaboration
Performance Measurement	Traditional metrics and performance indicators	Emphasis on measuring project outcomes and adaptive performance metrics
Project Success Criteria	Meeting predefined objectives and deliverables	Value creation, innovation, and achieving desired outcomes
Project Governance	Clearly defined roles and responsibilities	Agile and adaptive governance structures and processes





How: Systems Thinking in Project Governance

I CPM CENTRE FOR COMPLEX PROJECT MANAGEMENT

Overview of systems thinking

- The six blind men and an elephant
- > A partial truth
- The moral of the story: having a 'holistic' view
- "The behaviour of a system cannot be known just by knowing the elements of the system"

 (Meadows, 2008)

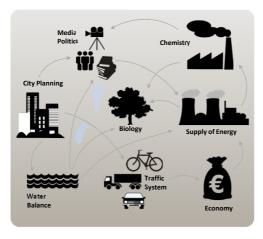






The torn net

A coherent net torn apart



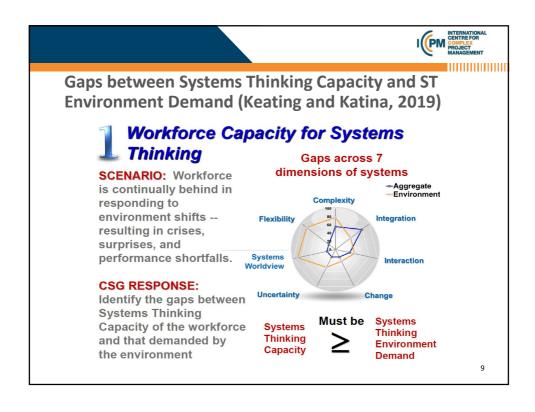
- We live and work in a society which consists of a network in which everything is connected, but in reality we make decisions in a torn net.
- Examples are everywhere in governments we have different departments; in companies we have divisions; and in projects we have different teams, and so on. This is obviously because we need these structures to be able to have order in our societies.
- The problem, however, is that we have built 'thick walls' around these entities that has led to a lack of communication and cross-sectoral collaboration. This is one of the major stumbling blocks in addressing complex problems, delivering projects & programs successfully.

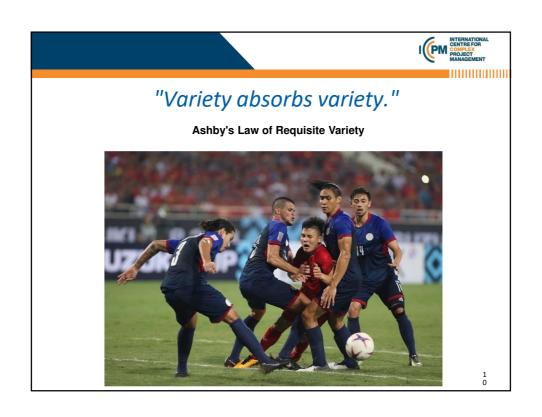
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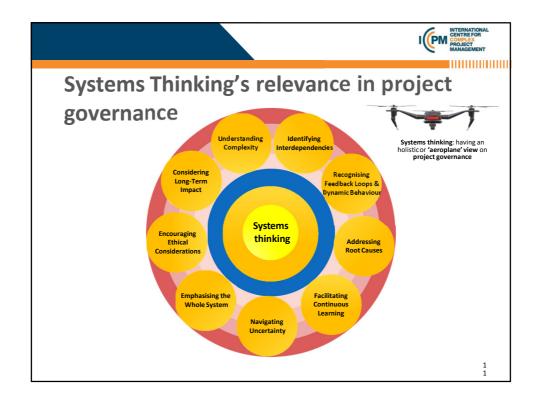


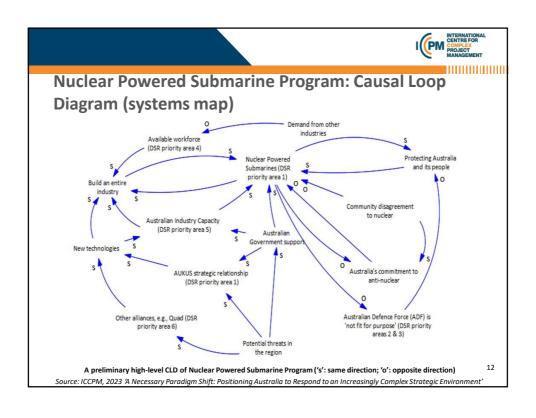
Definition of Systems Thinking

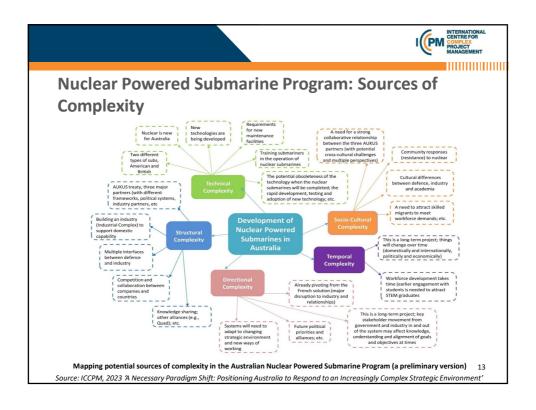
- Systems thinking is a 'new way of thinking' to understand and manage complex problems, deliver projects & programs successfully (Cabrera et al., 2008; Bosch et al., 2019).
- It is very important to apply a systems thinking approach to project governance & controls. Consider the project as a whole system with interconnected components, rather than focusing solely on individual tasks or processes. Understand how changes in one part of the project can impact the overall system and identify leverage points for effective governance and intervention.













Apply system governance and delivery assurance (ICCPM CPL Competency Standards – CPL05)

- ✓ Uses a systems-based approach to support the project governance function
- ✓ Pursues an appropriate delivery assurance approach
- ✓ Promotes a whole-of-life approach (attitude) to procurement
- ✓ Follows an adaptive procurement and acquisition approach



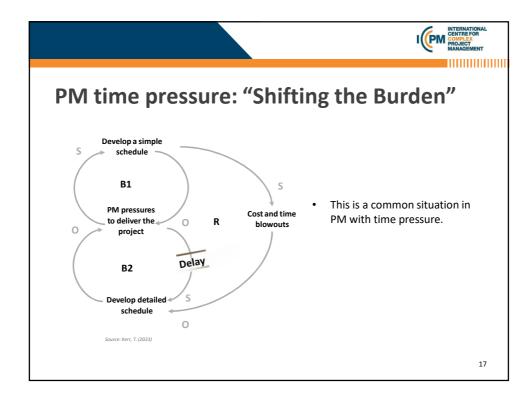
Reframing Project Success: Outcomes vs. Time and Cost



Time focus and its limitations



- **Time**: The project's ability to meet scheduled deadlines and milestones.
- **Importance**: Timely delivery is crucial for stakeholder satisfaction and overall project success.
- **Limitation**: Ignores the quality of the deliverables, focusing solely on meeting deadlines.
- **Limitation**: Can lead to rushed work and compromised outcomes to meet time constraints.





Cost focus and its limitations



- **Cost**: The project's adherence to budgetary constraints and financial resources.
- **Importance**: Keeping costs under control is essential for financial sustainability.
- **Limitation**: Doesn't consider the value or long-term impact of project outcomes.
- **Limitation:** Overemphasis on cost reduction may compromise the project's quality and innovation.



Example: Sydney Opera House Case



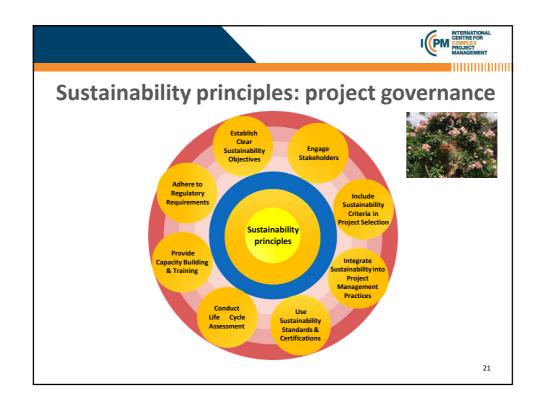
- 'Iron triangle' failure: 14 instead of 4 years, AUD\$102M instead of AUD\$7M.
- However, it has become a global icon and a source of immense national pride for Australia.
- It stands as a compelling case study of a project that redefined success based on outcomes rather than being limited by cost and time constraints.

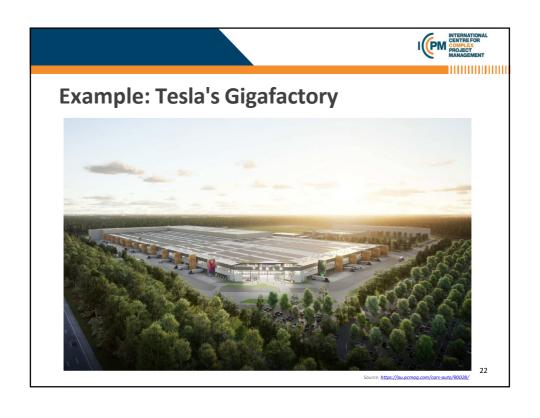
Source: https://www.sydneybuildexpo.com

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Systems Governance for Sustainability







Case Study: Deepwater Horizon oil spill



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Deepwater Horizon – implications for project governance and risk management

- ➤ Non-linear Dynamics
- > Emergence of Unforeseen Behaviour
- > Interconnectedness and Interdependence
- ➤ Adaptive Capacity and Resilience
- > Feedback Loops and Delays
- ➤ Uncertainty and Complexity
- > System Boundaries and External Influences



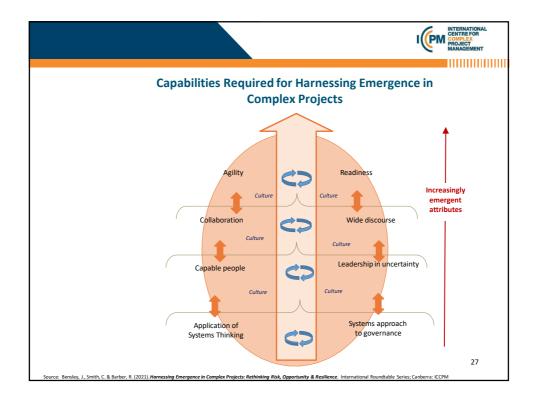
Understanding Emergent Risk and Opportunity

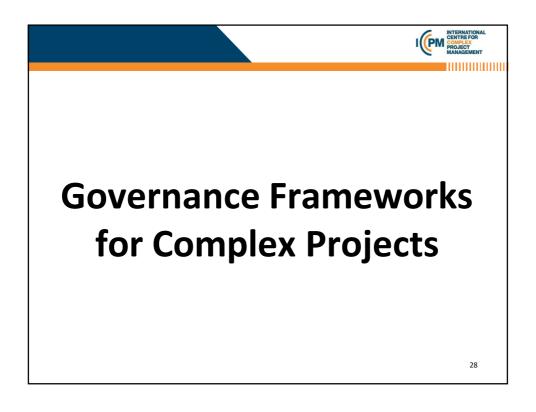


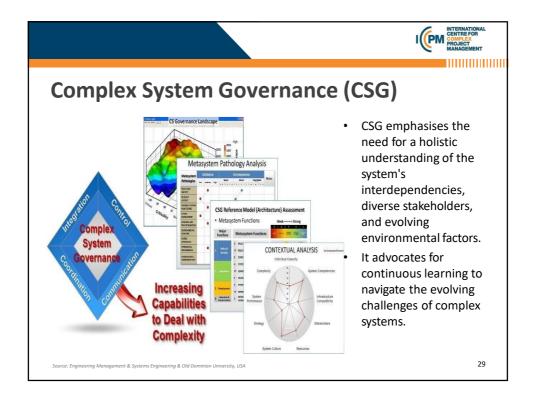
Differentiating between traditional and emergent risks

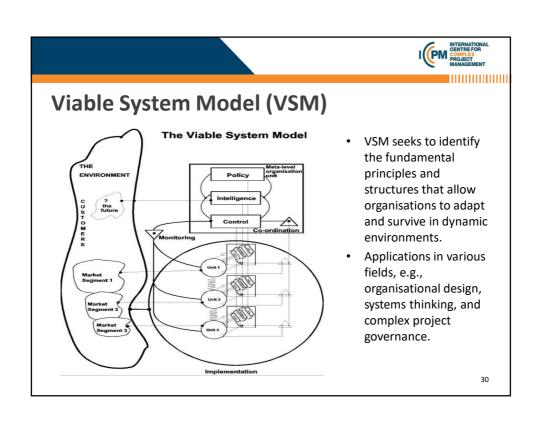
Aspect	Traditional Risks	Emergent Risks
Definition	Known, anticipated, and historical risks	Unpredictable, novel, and rapidly evolving risks
Characteristics	Familiar, often well-managed	Uncertain, complex, and difficult to quantify
Predictability	Generally predictable	Often unpredictable
Response Time	Standard response procedures	May require adaptive response measures
Impact Scope	Usually localised	Can have global impact
Examples	Natural disasters (earthquakes, floods)	Cybersecurity breaches
	Market fluctuations	AI and automation-related risks
	Supply chain disruptions	Climate change-related impacts
Management Approach	Risk assessment and mitigation strategies	Adaptive strategies and agility

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