International Centre for Complex Project Management

Global Perspectives and the Strategic Agenda to 2025

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Presentation Outline

- The Complex Project Management Initiative and ICCPM
- The Problem Statement
- Complex versus Complicated
- What is makes a project Complex?
- Traditional (Classical) versus Complex Project Management
- The Conspiracy of Optimism Why Mega Projects Fail
- CPM Report Summary of the Findings and Recommendations
- CPM Report Implications of the Findings
- Your Opportunities and Challenges
- The Future
- Questions



CPM Initiative

International Centre for Complex Project Management (international independent not-for-profit peak body)

Three objectives:

- Develop and sustain effective cross sector collaborations
- Educating and developing effective leaders and organisations
- Developing and disseminating practical knowledge and solutions



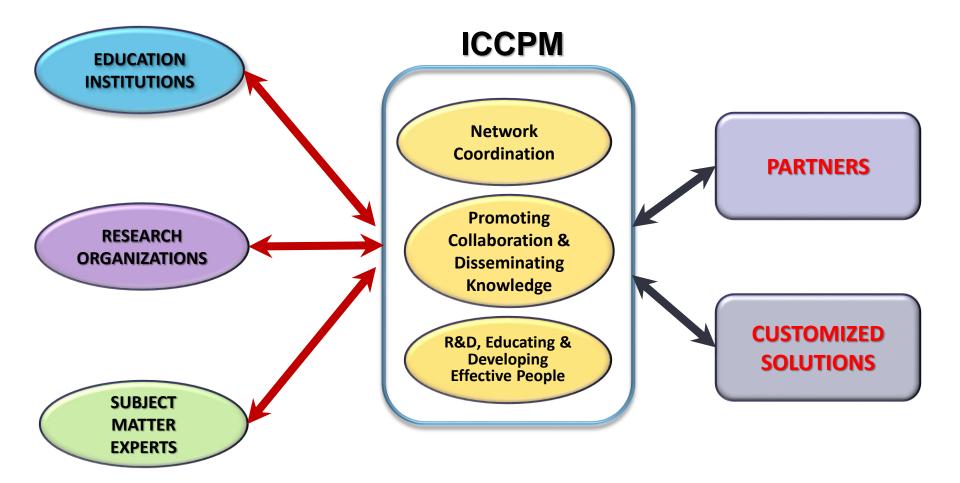


Partnerships, Alliances, Sponsors & Supporters



MANAGEMENT

ICCPM Business Model





The 21st Century Project Management Environment

The Problem and the Opportunity



- Only 40% of projects completed on time/budget
- Capacity to manage complexity identified as the No.1 issue for CEO's globally (IBM Global CEO Survey in 2009)
- Effect of complexity most apparent in non-technical areas of influence
- Organisations that manage complexity well outperform those who don't by a factor of 10 – managing projects as Complex Adaptive Systems



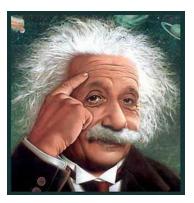
INTERNATIONAL CENTRE FOR OMPLEX PROJECT MANAGEMENT



Opportunities and Challenges

Insanity: doing the same thing over and over again and expecting different results. <u>Albert Einstein</u>

'More process is not going to fix the problem, we need a different approach!' <u>Kim Gillis – Former DCEO of Australian</u> <u>Department of Defence's Defence Materiel Organisation and currently</u> <u>MD of Boeing Defence Australia</u>







Complicated vs. Complex

Complicated – when you know what you have to do

Complex – when you don't



$$x + \frac{b}{2a} = \pm \sqrt{\frac{b^2 - 4ac}{4a^2}}$$
$$x + \frac{b}{2a} = \frac{\pm \sqrt{b^2 - 4ac}}{2a}$$
$$x = -\frac{b \pm \sqrt{b^2 - 4ac}}{2a}$$



Complex Projects

Uncertainty

Ambiguity

Dynamic interfaces Technology life Technology cycle exceeded Effect not solution

Political and external influences Integration



Aerospace & Defence





Oil & Gas – Mining – Infrastructure







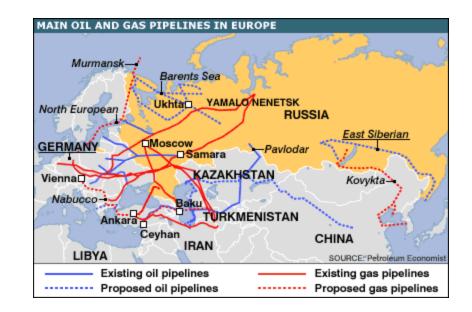




Governments – Climate Change, Resources & Energy?









Disaster Recovery?

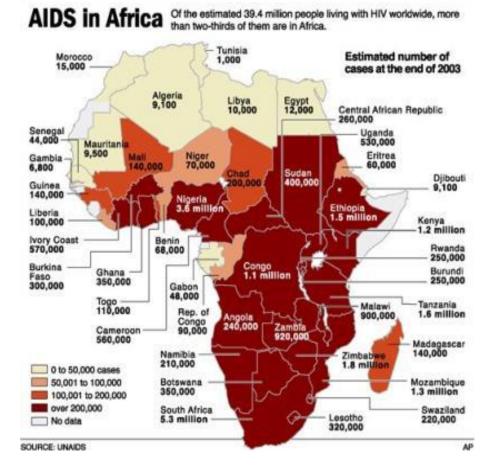








The World Bank/UN/WHO – AIDS?



Classical vs Complex

Project and Commercial Leadership

ICCPM

Project, program, portfolio and commercial leadership focused on strategic benefit realisation

IPMA/PMI

Project Management

A continuum of essential connections Engineering

Procurement and Supply Chain Logistics

Procedural compliance and engineering management *necessary but not sufficient for* s complex projects

Complex Project Management

Classical Project Management	Complex PM and Leadership
Primacy to scope, cost and timeProcess and task focused	Primacy to realising planned benefitsAligned with the business strategy
 Reductionist approach Rigid work breakdown structure Specified stakeholders 	Holistic approachSystem of systemsNumerous influential stakeholders
 Rational, universal and deterministic Linear, sequential approach Resists environmental change 	 Complex adaptive system Multidimensional, unpredictable Environment affects and is effected
 Administrative management Control - process compliance Project plan <u>is</u> the map of the terrain (A true reflection of reality?) 	 Adaptive & enabling leadership Complexity management Plans use multiple maps <u>relevant</u> t the terrain (no one best map)

MANAGEMENT

"The Conspiracy of Optimism"

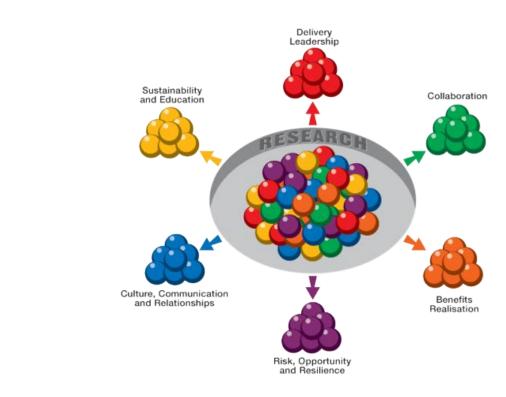
Why mega projects fail:

- Unaccommodated or unaligned stakeholder view of success
- Tension between product success and project success (product vs outcome)
- Political and public relations pressure militating against doing the right thing
- Lack of understanding or acknowledgement of non-technical risk
- Use of competition as a weapon
- Institutionalised procurement practices
- Few project managers are equipped as project delivery leaders
- Lack of opportunity for engagement between government and industry
- Future capability (projects) are predicated on attaining rational estimates
- Current tools and decision processes unsuitable for analysing uncertainty
- Inevitability of scope creep (cost & schedule) especially if contract too early Reference ICCPM Executive Roundtable Series 2009



CPM Report Main Themes

Global Perspectives and the Strategic Agenda to 2025 THE TASK FORCE REPORT





Action recommendations – Implement now



Report is the foundation for CPM Research Framework

Key CPM Report Recommendations

Delivery Leadership – Project Managers tend to be managers first and leaders more by happenstance, how to develop excellence in leadership for the few?

Collaboration – How to achieve EFFECTIVE collaboration with multiple parties across the barrier between Public and Private Sectors and between natural competitors?

Benefits Realisation – Focusing on true long term benefits in economic environments where "here and now" prevails with the major stakeholders?

Risk, Opportunity & Resilience – How to get acceptance of the cost of building in resilience? How to identify, acknowledge and accept risk within risk adverse hierarchies?



Key CPM Report Recommendations

Culture, Communication and Relationships – How to influence stakeholders? How to protect PMs when "unknown unknowns" are derogatory front page stories and effect short term stakeholder positions and assessment of value?

Sustainability and Education – The challenges of maintaining investment in developing knowledge and finding solutions during recessions

Research - New knowledge and practical solutions will be essential to developing and maintaining competitive advantage if not survival in the "new economy"



Opportunities and Challenges

Opportunities for Improvement:

- Investment in CPM training and education
- Adopting new tools and practices to better manage CPM risk
- Collaboration between industry and government entities to bring about change to contract practices and provide greater flexibility
- Engagement with the international CPM community to support change and improvement
- Investment in research

But the challenge:

- The need to raise key stakeholder awareness of the opportunities
- Recognising this as a strategic investment requiring resilience and patience
- Understanding the need for continued investment in spite of the financial climate

Remember that Organisations that manage complexity well outperform those who don't by a factor of 10!



The Future – Dealing with the 'So What?'

Continued Dialogue with 2012 Global Roundtable Series :

- Complexity in a Time of Global Financial Change Program Management in the New Economy
- Canberra/Washington/France/UK

Globalised ICCPM Associate Partner Network for CPM Education and Support Services:

• ICCPM provides a comprehensive, global, single point of access to experience based knowledge, impartial advice and direct assistance in Complex Project Management and Delivery Leadership

ICCPM's International CPM Knowledge Development and Dissemination Centre (KD2):

- Development of a universal Complexity Assessment Tool
- Development of a Complex Project Management Digital Library
- Development of Project Success Measures
- Annual Research and Innovation Conference Lille France 22-23 August 2012

Although there may be some short-term opportunities, investment in Complex Project Management capability is a long-term strategic journey



Questions?

Uncertainty, ambiguity and significant political and external influences...

Welcome to the world of complex projects...

Thank You for your attention and now for some Questions!

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