

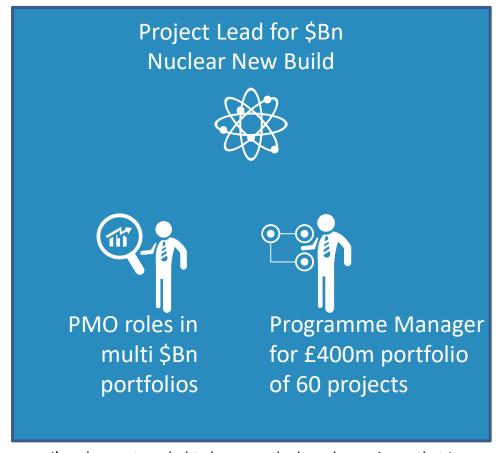
Is it Time for PMOs to Admit Defeat with Lessons Learned Processes?



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Why 'Lessons Learned'?



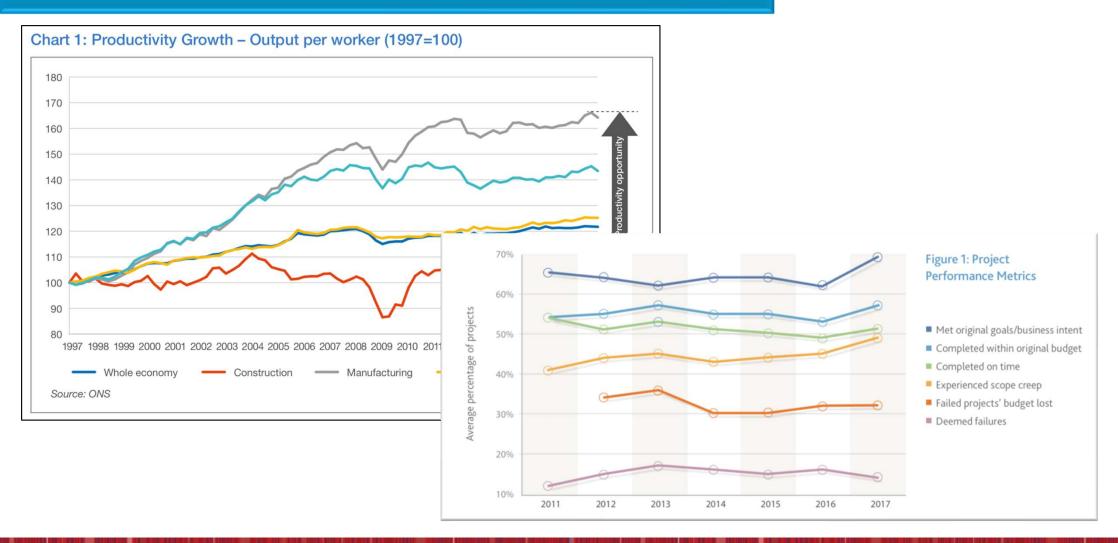
"Those that fail to learn from history are doomed to repeat it."

I've always struggled to leverage the broad experience that I know exists.

The Stark Reality of Not Leveraging Experience

>£20,000,000,000

Stagnating Productivity



Capacity to Learn From Experience

Home Office Government Major Projects Portfolio 2016

100 1100 1150 1150 1150 1150 1150 1150	Communications Capabilities Development (CCD) Programme	National Law Enforcement Data Programme	Adelphi Modernisation Programme	Cyclamen Programme	Disclosure and Barring Service (DBS) Programme	Digital Services at the Border (DSaB)	Emergency Services Mobile Communications Programme (ESMCP)	Home Office Biometrics (HOB) Programme	Immigration Platform Technologies (IPT)	Smarter Working Programme	Technology Platforms for Tomorrow (TPT)
Amber Green Amber Red Reset Amber Red	Amber Green	Apherkoi	IIO Reset	Amher Red	NO Amberikei	HO Amberikas	110 Amber	Amber Green	Amber	Araber	110 Amber

Ministry of Justice Government Major Projects Portfolio 2016

North Wales Prison (NWP) Programme	Common Platform (CP)	CJS Efficiency Programme (CJS Efficiency)	Electronic Monitoring (EM	Future IT Sourcing Programme (FITS)	Her Majesty's Courts and ribunals Services (HMCTS) Reform Programme	Integrated Delivery Programme (IDP)	MoJ Future FM	Programme	NOMS ICTS Services (NICTS) Programme (formally part of Quantum Re-compete Project)	Programme (PETP)	MoJ Shared Services Evolve (SS Evolve) Programme	Secure Training centre (STC) Retendering Project
MoJ	MoJ	MoJ	MoJ	MoJ N	t t	MoJ	MoJ	MoJ	MoJ	MoJ	MoJ	MoJ
Amber	Amber	Green	Amber/Red	Amber/Red	Amber/Red	Amber/Green	Amber	Amber	Green	Amber	Amber/Red	Amber/Red

Dept of Health Government Major Projects Portfolio 2016

Childho	d Flu CSC Local Service Provide	Electronic Prescription	General Practice System of	Health & Social Care	Liaison and Diversion	National Data Services	National Pandemic Flu	National Proton Beam	NHS Electronic Staff Record	NHS e-Referral Service	NHSmall 2	NHS Pension Re-let	NHS.UK	PHE Science Hub	Procurement	Visitor and Migrant NHS	100,000 Genomes Project
DH	DH	DH	DH	DH	DH	DH	DH	DH	DH	DH	DH	DH	DH	DH	DH	DH	DH
Amber	ireen Amber/Green	Amber	Amber	Amber/Red	Amber	Amber/Red	Amber/Green	Amber	Amber/Green	Amber	Amber	Amber	Amber	Amber	Amber	Amber/Red	Amber/Red

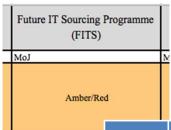
Ministry of Defence Government Major Projects Portfolio 2016



With so many projects not delivering to plan there should be a rich opportunity for leveraging experience for the collective benefit of UK PLC....

.....but there is limited evidence of this happening.

Digging a Little Deeper



Year	RAG	Forecast End	Forecast Who Costs £n
2012		31/12/2014	138
2013		01/04/2016	1375
2014		01/09/2016	1205
2015		30/11/2017	1706
2016		30/11/2017	2879

Source: GMPP Reports

Here was the lessons learnt commentary from NAO relating to FITS.

Initiation of programmes

At the start of future programmes, the Ministry should consider all approaches to meeting the programme's objectives and select the one that is most appropriate to its risk appetite and capability, particularly if it is novel or complex. This includes clearly understanding the requirements and consequences of its chosen approach, such as capacity and capabilities, and set out appropriate risk mitigations

Capacity and capability

The Ministry should:

 -Develop a long term strategy to build up digital and technology programme delivery capabilities, in particular in systems integration, to support its future approach to managing its IT services. This includes reducing its reliance on contractors, within the constraints of the market demand for specialist skills.

•Develop a clear understanding of the capacity demands of its programmes, so it can identify the impact on programme delivery arising from changing priorities or new programmes.

Contracting

The Ministry should ensure that for future contracts there are effective incentives for:

·Suppliers awarded the contract(s) to meet the transition timetable; and

·Existing suppliers to facilitate smooth transition to new suppliers.

Delivering the programme

The Ministry should clearly communicate its rationale for its fast-paced roll out down to local site level to help manage expectations and operational implications of the rollout, especially should further delays arise.

The programme team should further improve its governance structure to avoid duplication between boards and resolve issues at the right levels to enable timely and effective decision making.

Managing full service

As part of determining its future approach to managing its IT services, the Ministry should:

•Define its role in managing its IT services once they are operating, in particular its role as the systems integrator, for managing additions and changes to the services.

•Decide what services it wishes to run itself in the future and develop the capability to do so before the contracts expire.

•In its next procurement, the Ministry should contract for a period that reflects the commercial and technical effort required to move to new suppliers.

FOI Response in May 2018

- 32. Details of the Marginal benefits, as at Oct 15, can be seen at Annex B. This shows that net benefits estimated across the 25 years of the Investment Appraisal are £2382.379M, which increases the variance against the original target to £406.350M. It includes additional
 - 43. The major learning points identified following the delivery of the were:
 - A suitably constructed Project Team with clear objectives and top level management support is vital to successful project delivery.
 - A clear understanding of the end user requirements from the outset is important if subsequent costly alterations are to be avoided.
 - Constant communication with all stakeholders and contractors to ensure compliance with project requirements and to effect expectation management is essential.

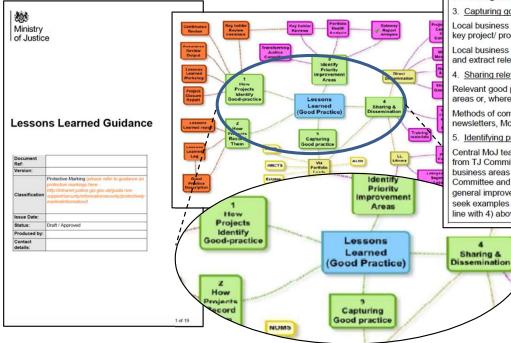
Lessons Learned Processes



DH does not have any policies or processes on lessons learned. Lesson learned methodology is standard Programme and Project Management practice which

programmes and projects deploy as they see fit.





KEY STEPS

1. Identifying lessons learned and good practice

Individual projects and programmes identify lessons learned/ good practice from continuous review (including standard items on board agendas), assurance review output, lessons learned workshops etc

2. Recording lessons learned and good practice

Individual projects and programmes record lessons learned/ good practice in lessons learned logs throughout the lifecycle, and in lessons learned reports at closure

3. Capturing good practice

Local business areas capture lessons learned logs and reports in local repositories at key project/ programme stages

Local business areas analyse project/ programme lessons learned reports/ information and extract relevant items for sharing either locally, centrally or both

4. Sharing relevant good practice

Relevant good practice examples are shared appropriately either by local business areas or, where relevant, centrally across MoJ.

Methods of communication to include project delivery community events, workshops, newsletters, MoJ intranet etc

5. Identifying priority improvement areas

Central MoJ team analyse gateway reports, healthchecks, keyholder reviews, feedback from TJ Committee etc, and where appropriate seek examples of good practice from business areas to share with the project delivery community. For example, if TJ Committee and analysis of recent gateway reports indicate that we need to make some general improvement in, say, stakeholder management, the central MoJ team would seek examples of good practice in business areas that could be shared across MoJ in line with 4) above.

But aren't the NAO fixing the problem?

We agree that there is insufficient learning from past failures in project delivery

We agree that there is insufficient learning from past failures in project delivery that's why identifying and applying lessons is one of the topic areas in our Framework. By publishing this document we hope we are making a small contribution by making it easier to find and access our previous work on the range of project delivery issues we tend to highlight.

Sendy Cordon Audit Manager Project Polivery Toors

National Audit Office

Sandy Gordon, Audit Manager, Project Delivery Team

It is the role of Departments to leverage the experience, not the NAO

https://www.nao.org.uk/naoblog/a-systematic-look-at-major-programmes/

A systematic look at major programmes

Posted on October 10, 2017 by Sandy Gordon



Major programmes are expensive, high profile and carry great uncertainties and risks. For most government bodies, undertaking a major programme will involve doing something new, with relatively little organisational experience. Many fall short of their objectives, in terms of cost and/or outcomes. So it's not surprising that they are the focus of many NAO reports — about 100 since 2010. Our new Framework to review programmes shows the questions we typically ask, and brings together many of

our recent findings. We hope it will show what we are looking for and what we expect to see when we examine major programmes.

Our reports illustrate how risky programmes can be. If they're innovative, those risks are higher, and it's harder to learn from past experience. If they're complex they are affected by many unpredictable factors. And the scale of challenge is increasing as government bodies support major new infrastructure projects, introduce new technology and reorganise to make the most of scarce resources as well as implementing the changes necessary as a result of leaving the European Union.

We tend to look at the biggest and riskiest programmes at key points during their life, or when a particular event prompts a review. Our examinations may seek to address different questions depending on the context, but our Farework to review programmes sets out 18 key questions that are likely to be important, with links to examples from our past work and to further more detailed guidance on specific issues.

Learning from successes and failures

Our framework of questions is based on lessons we've learnt from our previous reports. These are just some of the examples highlighted in our Framework.



Managing interdependencies: In our review, Modernising the Great Western railway, we found that Network Rail had not worked out the minimum feasible schedule for the work, including dependencies between key stages. This led us to focus our questions more how on interdependencies are managed within programmes.

Learning from early experience: Some of our examples highlight progress made in projects after we identified problems at the early stages. For instance our report on Progress with preparations for High Speed 2 said the Department for Transport had taken steps to address weaknesses in the business case we reported on in 2013, and had learned from High Speed 1, where the benefits had not materialised as expected, as we reported in The completion and sale of HS1.





Sharing lessons across a portfolio: In our report Welfare reform — lessons learned, we found that the Department for Work and Pensions (DWP) implemented around 30 distinct programmes over five years with few operational problems. This was largely because DWP learnt from early failings such as: sticking too rigidly to fixed deadlines; thinking too late about the management information and the leading indicators it needed to understand progress and

The PMO Conference

Over 15,000 Lessons..... Overview



>50 Organisations



>**1,000** Projects



Estimated Portfolio ~\$30 bn



>2 Years of effort to collate



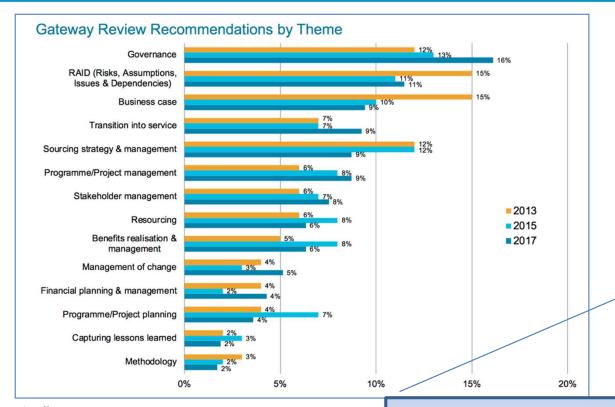
Covering **3** Continents

From

"Benefits clearer"

to ..."There was insufficient clarity about accountability for each budget line, reflecting a centralised approach to budget management. Poor links between the Finance Team and key programmes compounded this lack of accountability, which meant that forecasting, monitoring and budget discussions, as well as early planning of procurement strategies, did not take place in a sufficiently timely manner to identify and address the key risks".

Existing Lessons Learned Analysis





Information Sharing Lessons Learned from Gateway Reviews: Gate 3 – Investment Decision Review

October 2013

The purpose of this document is to share lessons learned to support agencies to better identify opportunities to improve productivity and efficiency and to help make project teams more aware of alternative approaches to project delivery that may increase the realisation of benefits.

This document presents the lessons learned from Gate 3 – Investment Decision Reviews held since the Australian Government's implementation of the Gateway Review Process in 2006 and are drawn from the three project types: ICT, Procurement and Infrastructure. Regardless of their origin, the lessons learned are beneficial and provide good practice that can be applied across all project types.

The Gate 3 – Investment Decision Review provides assurance on the supplier selection and that the business needs are likely to be met through the project and contract management controls. It also assures that processes are in place for contract delivery and that benefits management strategies and plans have been incorporated.

The lessons learned provided in this document are a subset of all recommendations and are grouped into the Gat 3 Key Focus Areas. The percentage distribution for all recommendations is as follows: Business Case and Stakeholders (21 per cent); Assessment of the Proposed Solution (15 per cent); Review of Current Phase (29 per cent); Risk Management (14 per cent); and Readiness for Next Phase (21 per cent).

Business Case and Stakeholders

Update the Business Case and manage benefits — ensure that the proposed solution continues to meet business needs and will realise the previously outlined benefits.

roactively manage stakeholders – update Stakeholder Management Plans and provide feedba o stakeholders on consultations.

Effectively updating the Business Case and managing benefits involves

- updating the Business Case to reflect the Project's progression, key milestones, revised benefits (if applicable), risks and task level objectives;
- reflecting any changes to the Business Case in all relevant project documentation,
- seeking, where appropriate, that the Project Steering Committee formally affirm the Business Case including validation of revised costs, budget, benefits, risks and contingencies prior to recommending entering into a contract with a supplier;
- maturing the Benefits Management Plan, particularly relating to baseline establishment, benefits profiling (including key non-financial outcomes), measurement processes and assigning ownership for benefits realisation activities;

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http://www.treasury.govt.nz

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Pursuing the case for change



22 COMMENT > LESSONS LEARNED

You can't afford to neglect data

MARTIN PAVER argues that, in addressing the reasons for project failure, forensic insight is key



owledge management.

For many organisations, the impact of not acting on lessons isn't evident, which not acting on lessons isn't evident, which makes it difficult to prioritise and create the business case for charge. Organisation don't tend to assess the degree to which negative lessons are avoidable. Some lessons energe because of 'black woars, which are agused to be unknowable events, but as the sample size grows, the unknown becomes more knowable.

Lessons often lack forensic insight; for

on further examination, it may be an issue on further examination, it may be an issue of complexity and emergence. If lessoons identified tack rigour, they also tack insight. Data helds the key to creating momentum from which change and knowledge management methods can be applied, Imagine it is 2000 and a project nursager can book three to six months ahead and visualise how their project. will unfold. It may not be that far into the



PROJECT

20 COMMENT >> VIEWPOINT

How can government learn more from project delivery data?

An industry commentator offers his opinion on this issue's big question

CONVINCED THAT THE ANSWER LIES

IDENTIFICATION AND ACCESS

Project Data Analytics - How do we leverage

experience of project delivery?

Free Webinar



apm



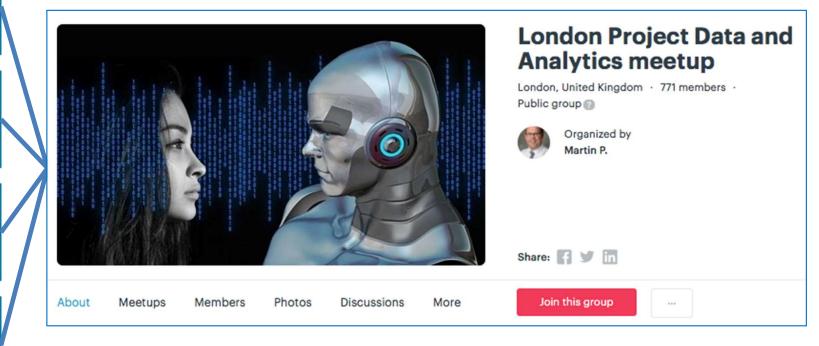
Pursuing the case for change

Improve understanding of methods

Demonstrate the art of the possible

Community to share experience and up-skill

Develop new capabilities



Nature & Quality of the Lessons

The SRO and Project Team should develop a robust and comprehensive Stakeholder Management and Communication Plan.

Review and implement project governance arrangements.

Project reporting format should be reviewed.

The project should consider a workshop to capture all Lessons Learned to date and ensure that the learning is embedded within all future development Observation?

Something to consider in the next phase?

Missing the basics and don't know better

Should know better

Fundamental shortfall with minor impact

Fundamental shortfall with major impact

'(Un)Avoidability' of lessons

Unavoidable lesson 4

But may be aware of emerging environmental conditions

Strategic lesson

Organisation proceeded knowing that strategic decisions may/will likely impact the project. Lesson learned was foreseeable and wasn't mitigated.

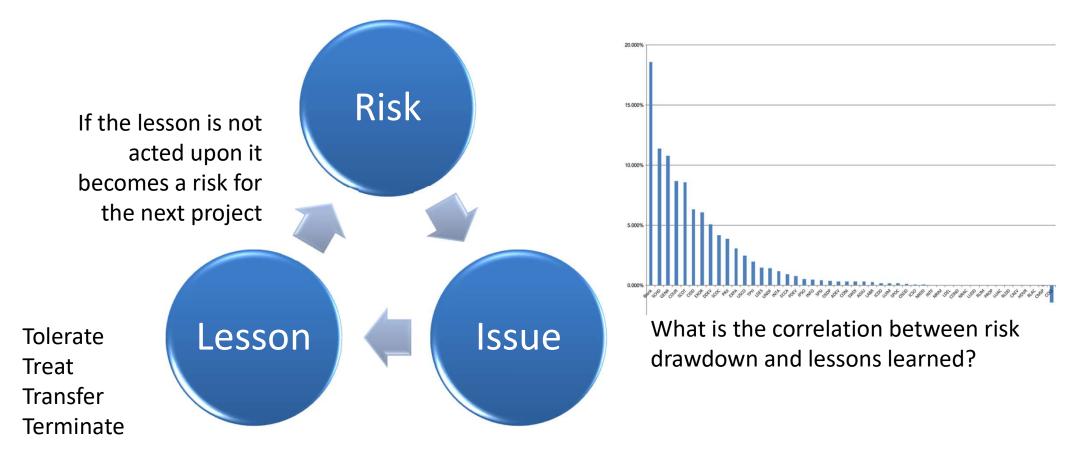
Avoidable lesson

Priority, resourcing, SQEP or judgment call

- Act of God, environmental factors
- Unknown/unknowable external event
- Unknown/knowable external event
- •Known external event
- •Internal decision or organisational constraint
- Lesson identified or known but deemed irrelevant
- Lesson identified or known but ignored due to other priorities/resourcing

The Link Between Risk and Lessons

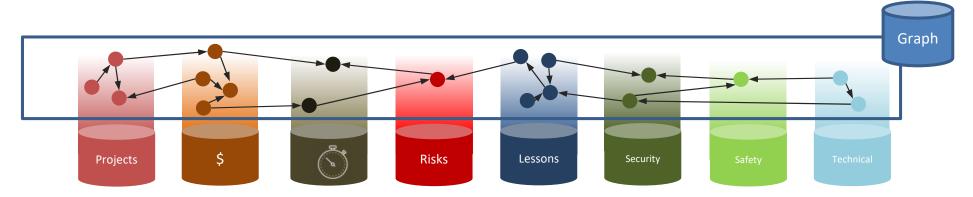
How many organisations link lessons learned and risk management?



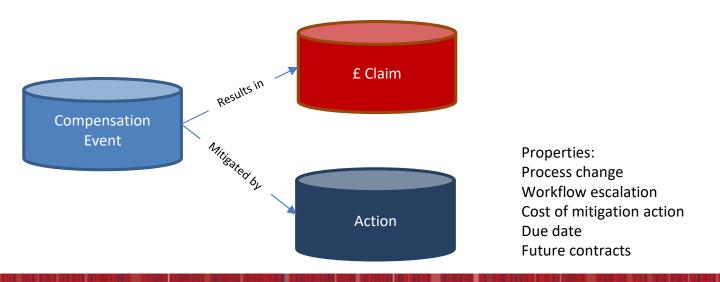
A Glimpse into the Future



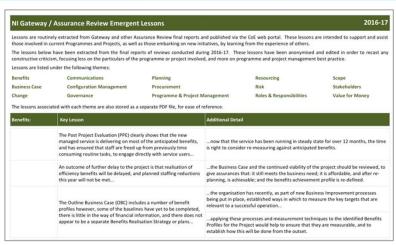
Leveraging the Connected Data



Data Stored in Silos



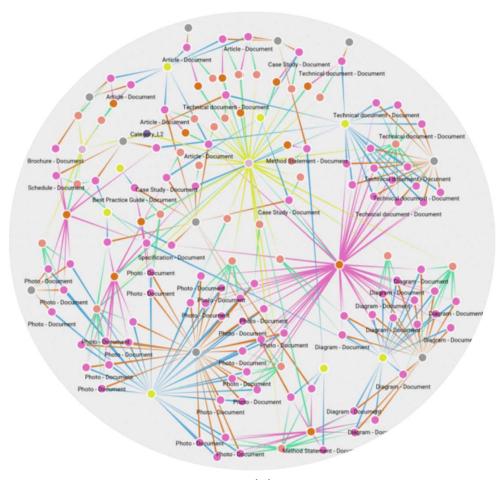
Leveraging the Connected Data



Northern Ireland Lessons Learned



Silos of data



Connected data

Predisposition, Symptoms & Early Warnings

Indicate a predisposition to Diabetes







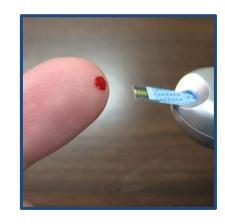


Images courtesy of diabetes UK

A genetic predisposition is an increased likelihood of developing a particular disease based on a person's genetic makeup.

The common symptoms of diabetes

- Going to the toilet a lot, especially at night.
- Being really thirsty.
- Feeling more tired than usual.
- Losing weight without trying to.
- Genital itching or thrush.
- Cuts and wounds take longer to heal.
- Blurred vision.



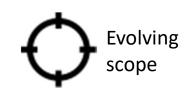


cons by icons8.com

Predisposition, Symptoms & Early Warnings

Predisposition of an IT project to Failure





Segmenting the portfolio....

5/10 Technology Projects

6/10 Energy Projects

7/10 Dams

9/10 Transport projects

10/10 Olympics

......Do not meet their cost targets

Source: Why do projects fail

Symptoms

Lack of...



Stakeholder engagement





Executive Support



End user Involved in **Testing**



Funding stability

Early Warnings

Requirements



Burndown

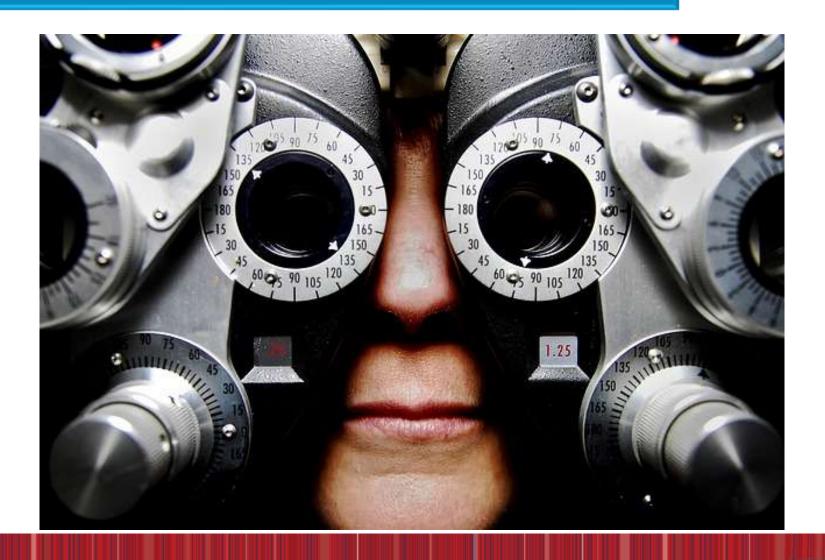


Team churn



shortfall

A vision



Things are changing.... at pace

THE CHANGING DIGITAL WORLD - HOW IS THIS GOING TO CHANGE THE WAY WE DELIVER MAJOR PROJECTS?

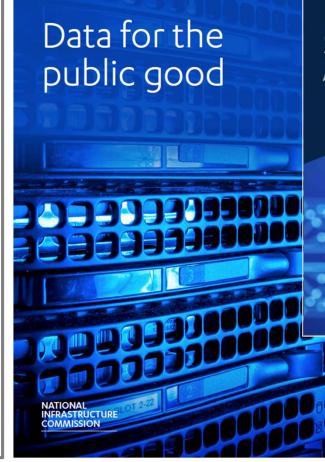


Highlights from the Major Projects Association event held on 8th February 2018

IT IS ALL ABOUT THE DATA

Failure to digitise and utilise data is at the heart of the productivity gap that exists between UK infrastructure and other sectors such as manufacturing. Too often the value of data is not recognised. It is either given or thrown away as industry professionals fail to grasp the opportunity that it presents. This mindset has to change. When data is understood and given meaning it has more value, allowing asset owners to make better decisions – leading to better outcomes and greater public good.

Recognising the value of data is the start. The challenge then becomes one of what to do with data, and how to take it out of silos and share it as a resource across project disciplines and activities.





級 HM Government

HOUSE OF LORDS

Select Committee on Artificial Intelligence

Report of Session 2017-19

AI in the UK: ready, willing and able?

Ordered to be printed 13 March 2018 and published 16 April 2018

Published by the Authority of the House of Lords

HL Paper 100

Its about perspective

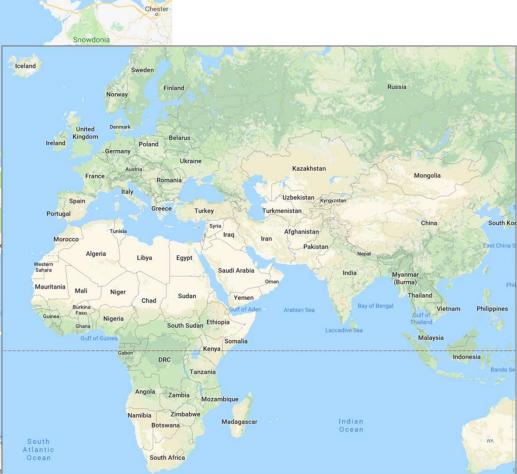
Your experience

Your team's experience

The dataset of experience







An example: Scheduling

Collate every construction schedule

Benchmark

Identify in-schedule variance

Identify variance in comparables

Auto-generate schedules

Adaptive scheduling

Prescriptive scheduling

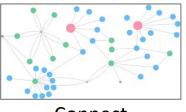




Weather forecast



Assign tasks



Connect Data Do nothing
Warn
Assist
Control

Recommendations



Leveraging a corpus of experience

Is My Organisation Ready for This?





A thirst for data

Millions of data points

"Machine Learning and AI will be bigger than the internet" Lance Olson 2018

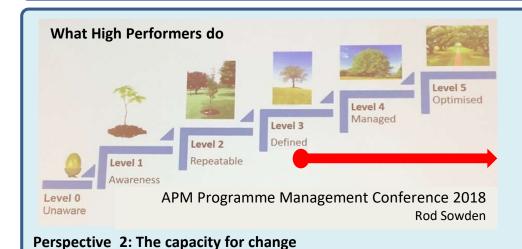
> A need to respond Lead times



Reputation

Avoiding the avoidable

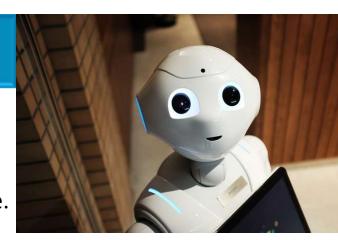
Perspective 1: The driver for change



- Committed leadership
- Need a hunger for improvement
- Self critical/restless
- Learning organisation
- Measure performance & look for opportunities to improve
- Curate their knowledge
- Clear vision & outcomes
- Need to be at P3M3 level 3 or above

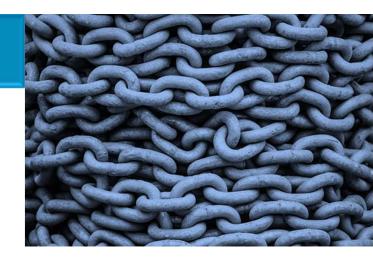
Summary

- Lessons learned processes generally do not deliver value
- Connected data enables insights that flat data can never provide.



- Repeating avoidable problems will become indefensible.
- Decisions increasingly shaped by experience.
- Significant opportunity for cost and time saving.
- Machine learning is marching towards us which will be transformational.
- We need to develop a data driven approach to support it.

Some links....



Challenging established thinking: https://projectingsuccess.co.uk/insight/

• **LinkedIn:** https://www.linkedin.com/in/martin-paver-51288423/

Meetup: https://www.meetup.com/London-Project-Data-and-Analytics-meetup/

• Slack Group Contact: Clarejohnston@projectingsuccess.co.uk