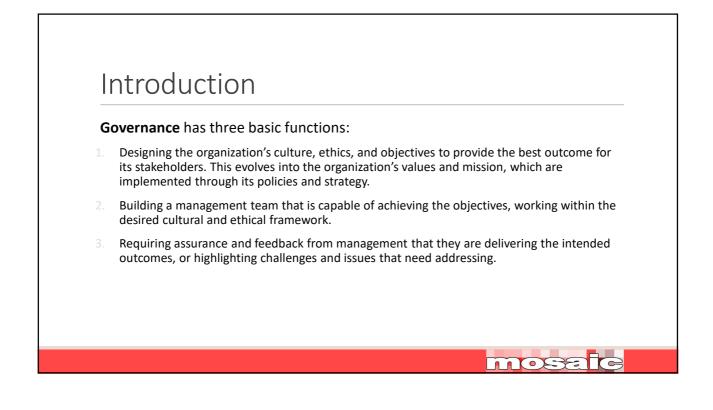
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Patrick Weaver Mosaic Project Services Pty Ltd





# Introduction

Within this framework, organizations need to know when their projects are expected to finish! Not knowing is not an option!

- The governing entity is responsible for requiring an effective controls framework
- Management is responsible for applying the framework effectively,
  - And, using the information appropriately,
  - And, reporting correctly

The governing entity requires assurance this is being done

#### Not knowing when a project will complete should be unacceptable

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## Introduction

Traditional 'hard' projects have been managed using CPM and/or EVM for decades

These controls can provide a reasonable prediction of completion

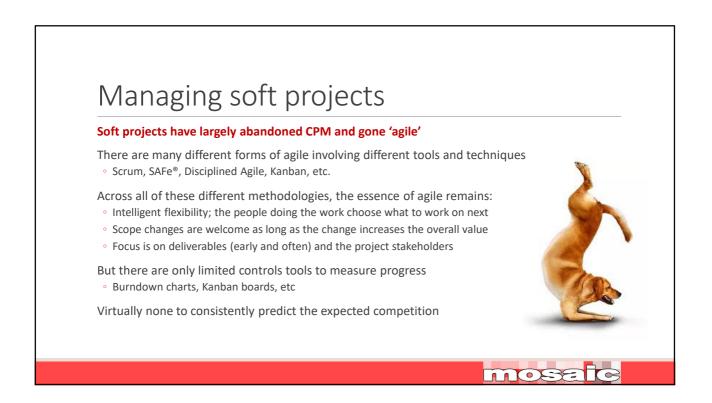
#### Provided the tools are applied appropriately

But there are a class of projects where CPM cannot provide a solution – there is no particular requirement to undertake the work in any sequence

#### These are defined as 'Class 3' Projects

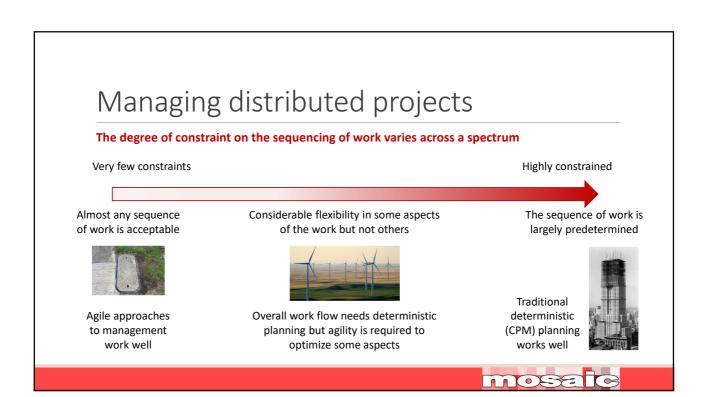
- Distributed projects
- Soft projects

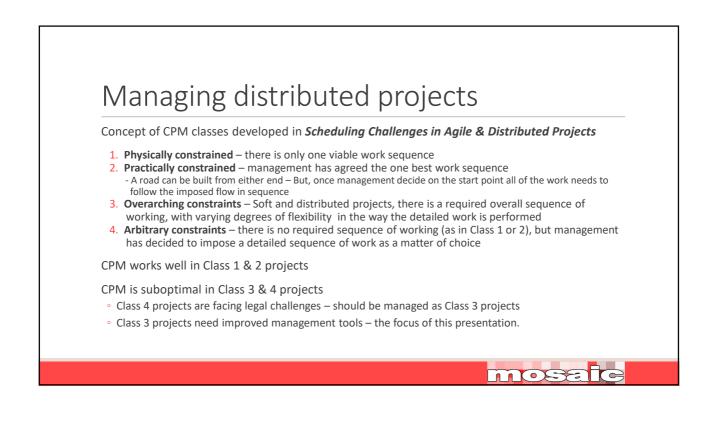




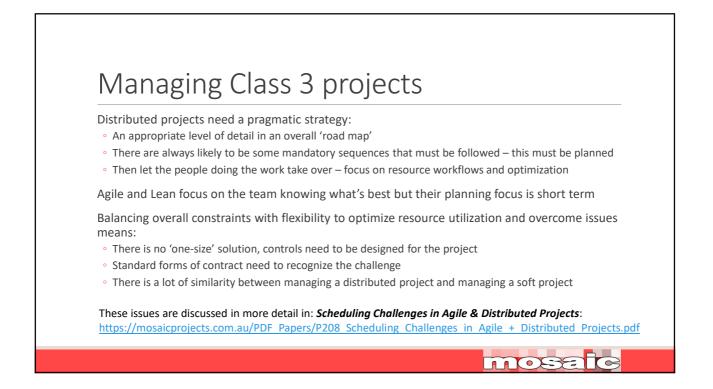












# Challenges in the absence of CPM

The courts have identified the failings in CPM when applied to distributed projects (Class 3 & 4)

The industry has identified the failings in CPM when applied to agile projects (Class 3)

But without a CPM schedule there are major challenges in:

- Measuring how is the work progressing to identify issues and opportunities
- Predicting project completion in a consistent and defensible way
- Assessing the consequences of delay and disruption to calculate EOTs and delay costs

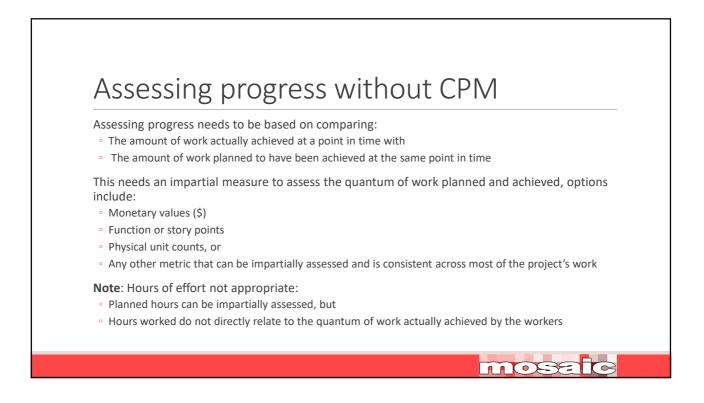
This problem affects:

- All distributed projects
- All agile projects where development is done in sprints or iterations (not just IT)
- Projects using 'lean construction' and 'last planner' techniques

An effective solution to these problems is also likely to work on Class 1 & 2 projects, allowing the CPM schedule to be used proactively rather than contractually



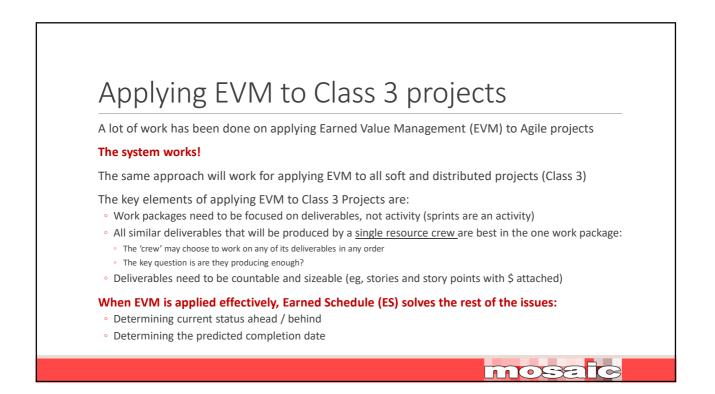
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Predicting project completion in a consistent, def	ensible and repeatable way is essential
Existing approaches that have been shown to be • Earned Schedule (an extension to Earned Value Mar • Earned Duration	
,	



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Applying	EVM to	Class 3	projects
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The only schedule input required is an assessment of when each work package can start and finish • This sets the time element of the Performance Management Baseline

There is no need for a complex CPM schedule, simple heuristics will work most of the time

- A Bar Chart (Gantt Chart) is acceptable
- But there's no reason not to use a CPM schedule

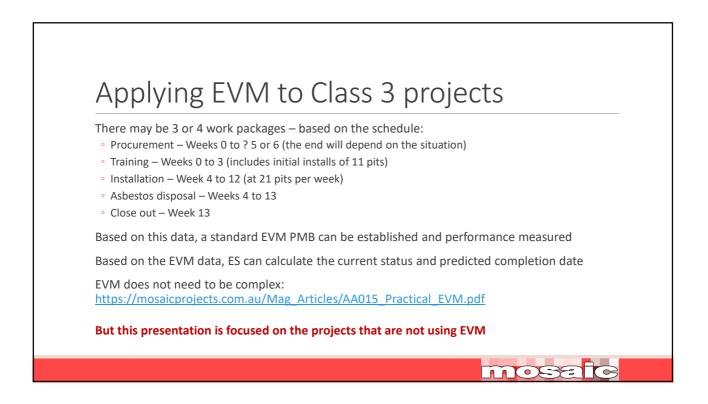
Consider the schedule needed for the 'Telecom pit replacement' project - 200 pits

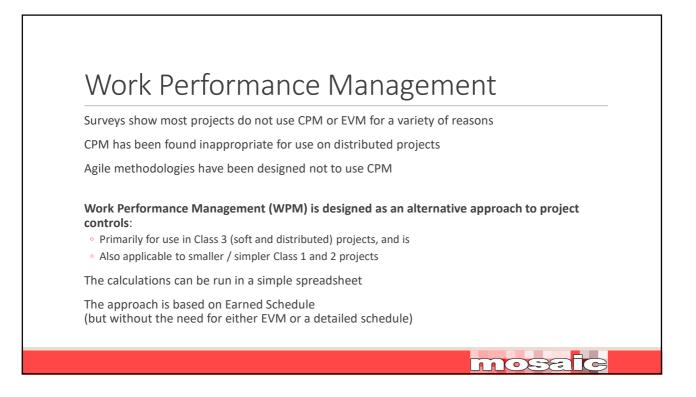
- Contract period 13 weeks (3 months)
- Allow 2 weeks for initial procurement and training
- $\,\circ\,$  Allow 1 week for initial learning 10 pits only
- $\,\circ\,$  Allow 1 week at the end for project finalization
- Therefore 9 weeks are left to install 190 pits = 21 per week (adjust week 1 to a target of 11 pits)
- Note: a contingency may be needed for inclement weather??



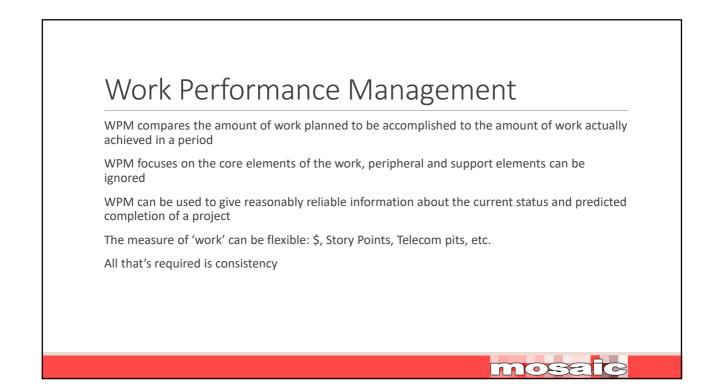
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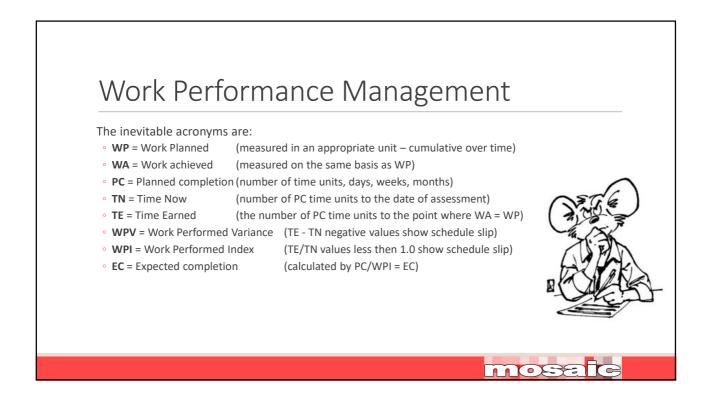
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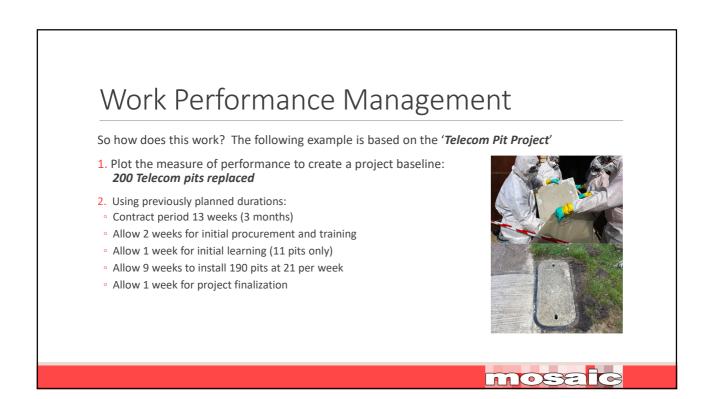


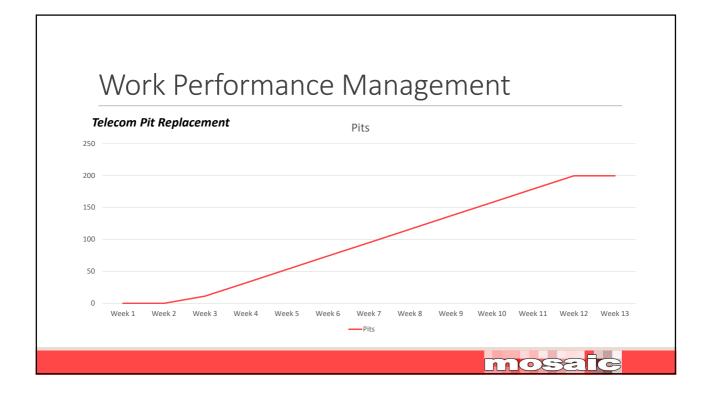




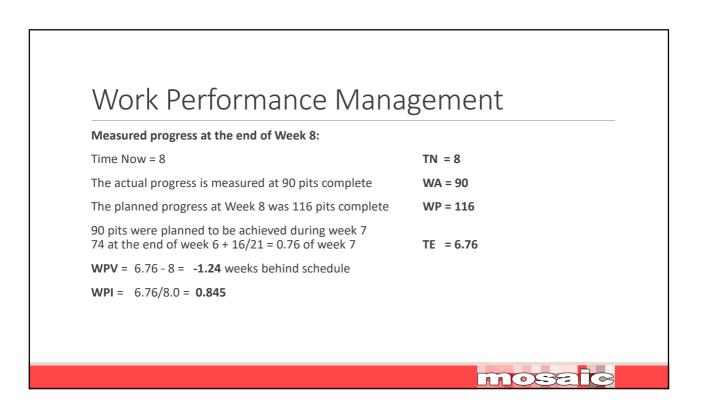


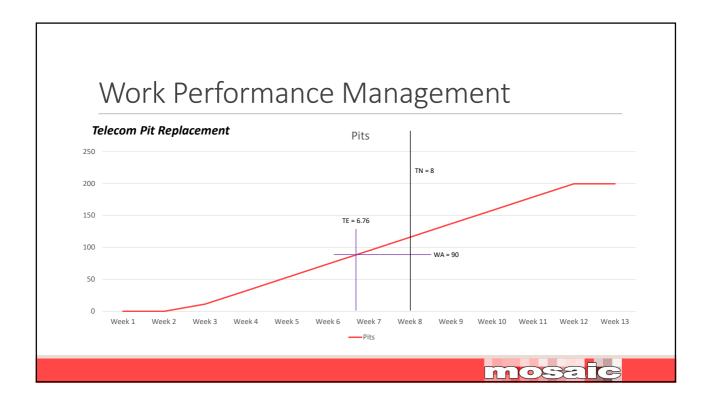




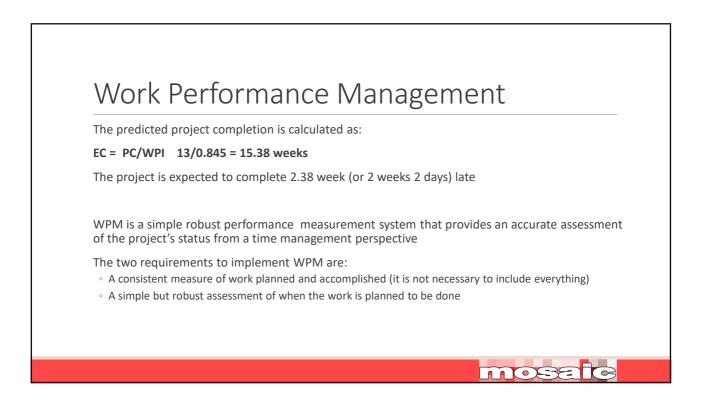












# Conclusions

WPM provides a robust, simple system to measure the performance of work and assess the likely project completion date

The metric used can be a core deliverable (eg, 2000 computers replaced in an organization) or a representation of work such as the \$ value of the components to be delivered

Peripheral and support activities can be ignored, they rarely impact the project delivery independently – failures in the support areas typically manifest in the primary delivery metric

WPM is not an alternative to EVM and CPM on major complex projects

WPM can provide a cost efficient, simple, rigorous controls tool for the many projects that are either:

- Relatively small requiring a straightforward controls tool, or
- $\circ\,$  Large, but with a single primary deliverable that is easy to measure, or
- Fall into the Class 3 classification of agile or distributed projects (but choose not to apply EVM)



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