

We're with you all the way.

EARNED VALUE MANAGEMENT

Is it worth the effort?



Session Objectives

- □ Examples of earned value in use.
- Why don't more Project Managers use EMV?
- □ Road Map to EVA Maturity?

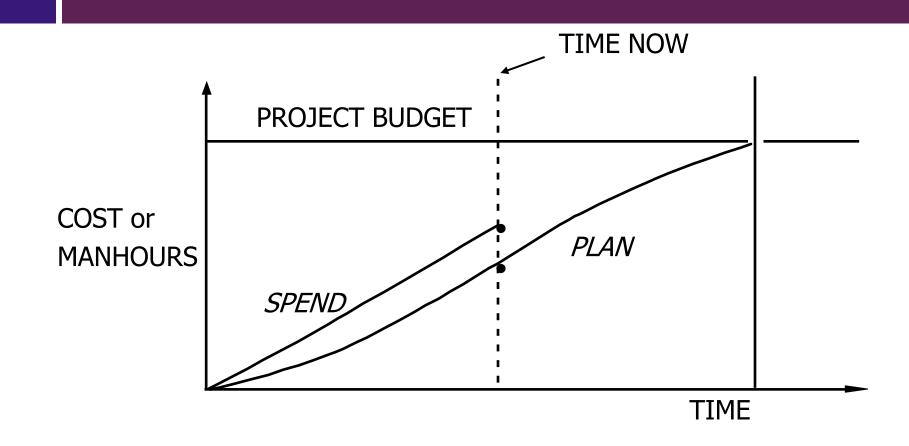


What you need to know?

- □ How is our project progressing?
- What has been achieved for the budget spent?
- □ When is the project going to finish?
- What will be the cost at completion?
- □ How efficiently are resources being used?
- □ What areas of the project are ahead / behind plan?



Why Use Earned Value?



GOOD NEWS OR BAD?



What is Earned Value Management?

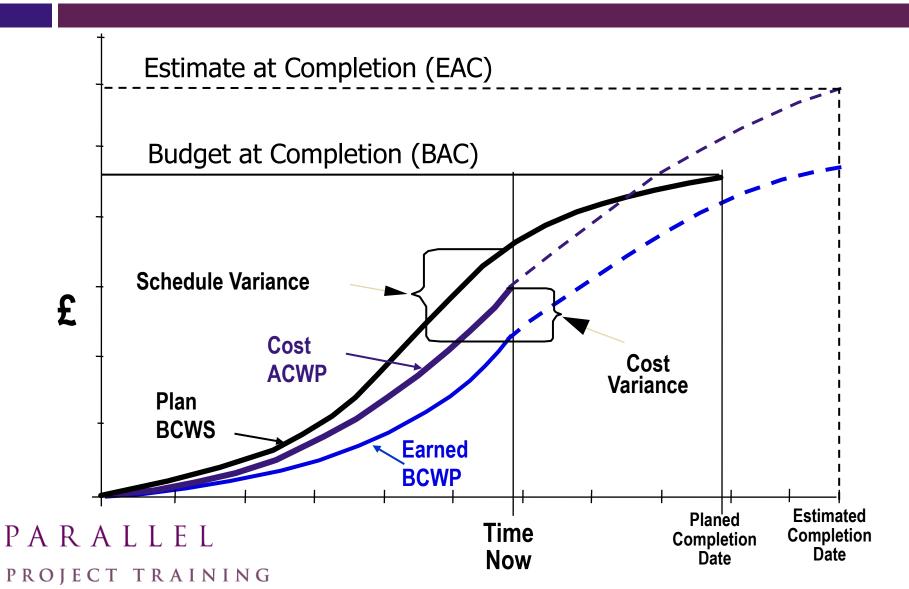
'Earned value management is about establishing and managing goals throughout the life of a project'

Measure three key elements of the project

- I. Planned Value
- 2. Earned Value
- 3. Actual Cost
- =Budgeted Cost of Work Scheduled
 =Budgeted Cost Work Performed
 =Actual Cost Work Performed
- Using a common currency. (£ or Manhours)



Earned Value Analysis





Several Ways to Measure Progress

- Equivalent Units
 - Based on number of physical units completed
- Completed milestones
 - % value assigned to each milestone
 - Earned value as each milestone completed
 - Will not work if low number of milestones
- % Complete
 - Estimate of work to complete
 - Limit to 0-80% then 100% or 0/100% or 0/50%/100%
- Apportioned Effort
 - Earned proportional to the progress on other packages e.g. planning, contract mgt.
- Level of Effort
 - Earned (BCWP) set = Plan (BCWS) for ongoing activities e.g. site office and security. Actual cost can still exceed the plan.

PARALLEL

PROJECT TRAINING



Earned Value Analysis

Variances

Cost Variance (CV) = Earned Value – Actual Cost Schedule Variance (SchV) = Earned Value – Planned Cost Positive is good news

Performance Indices

Cost Performance Index (CPI) = Earned Value / Actual Cost

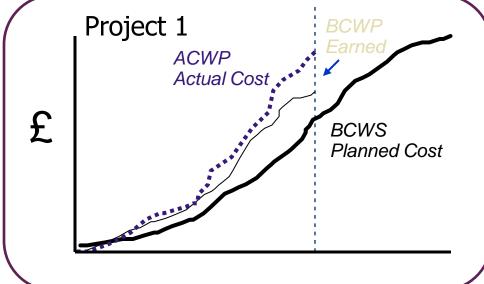
Schedule Performance Index (SPI) = Earned Value / Planed Cost

> I is good news, < I bad news

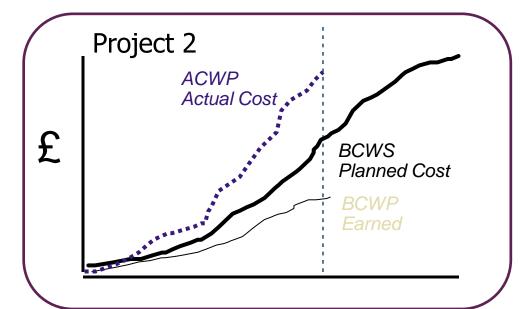
PARALLEL

PROJECT TRAINING

Good News or Bad News?

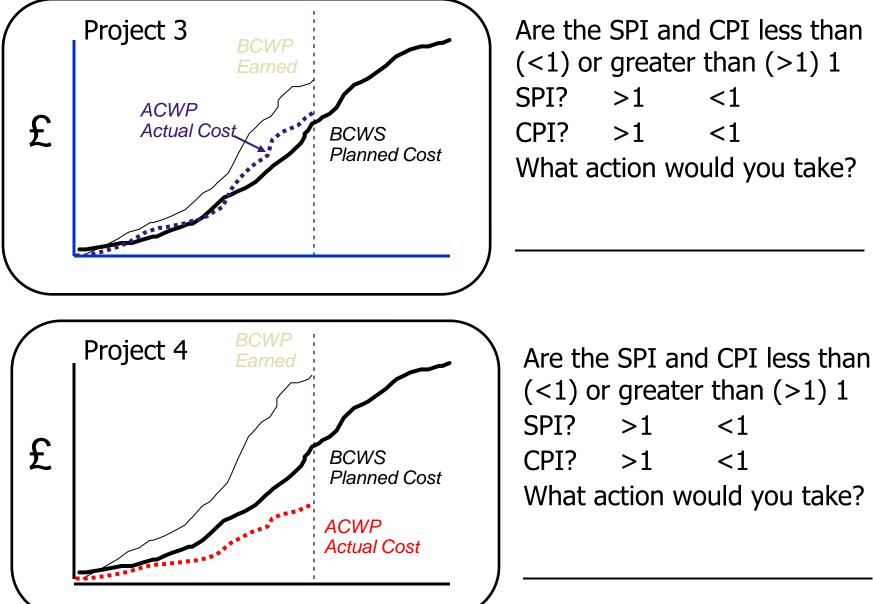


Are the SPI and CPI less than(<1) or greater than (>1) 1SPI?>1CPI?>1Vhat action would you take?



Are the SPI and CPI less than(<1) or greater than (>1) 1SPI?>1CPI?>1Vhat action would you take?

Good News or Bad News?





Forecast Metrics

Estimated Cost at Completion EAC =	Total Budget
	CPI
Estimated Time at Completion =	Original Planned Duration
	SPI

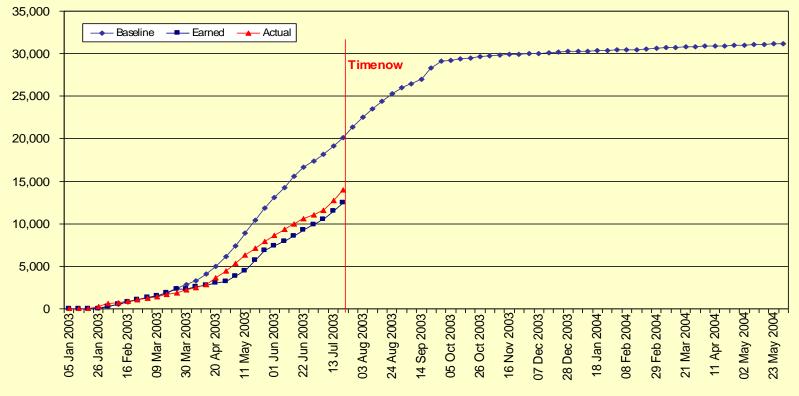
EVM in Action

Renewal Project<u>Design Works - Earned Value (Hours) S-Curve Against Baseline Programme Version 0</u>



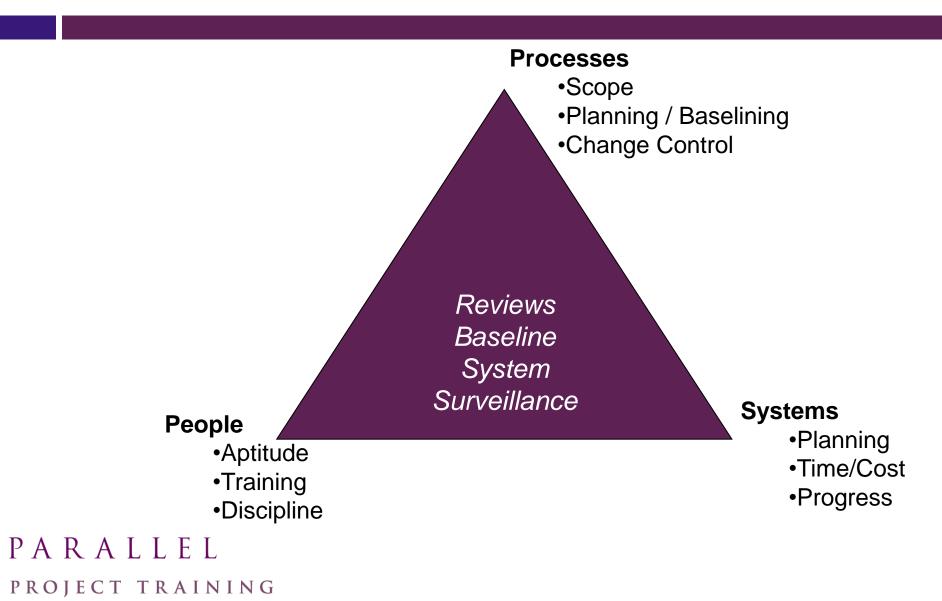
More EVM in Action

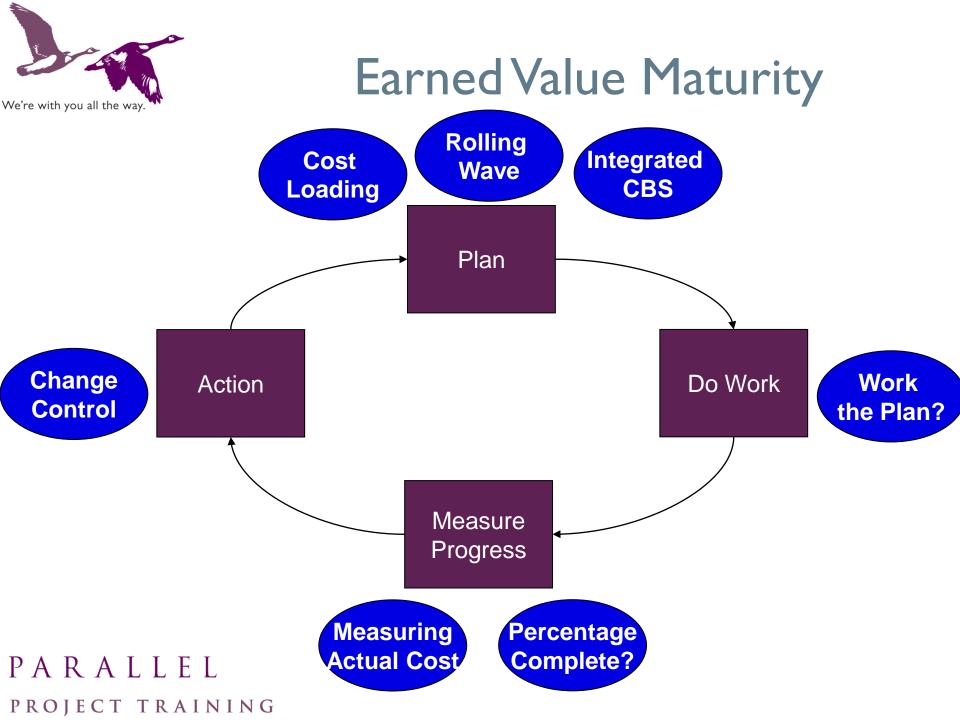
Renewal Project<u>Overall Project - Earned Value (Hours) S-Curve Against Baseline Programme Version 0</u>





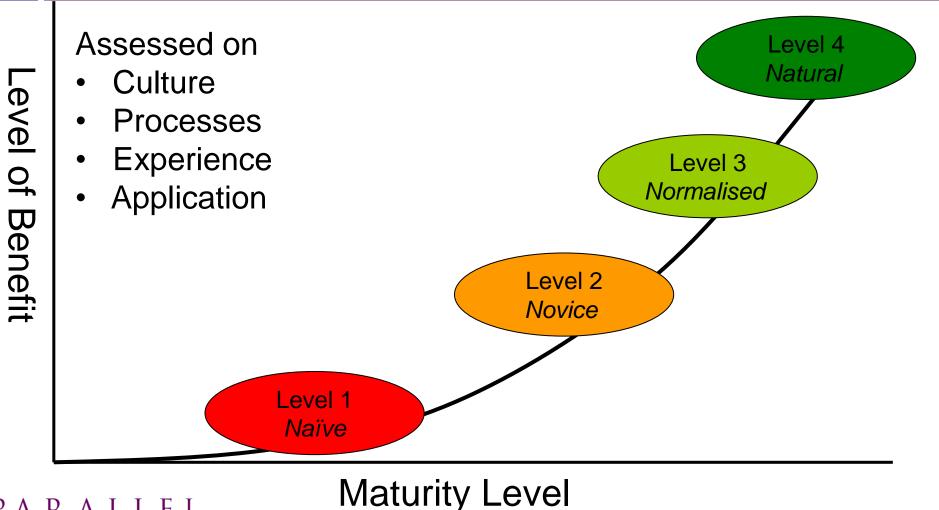
Road to EVM Maturity







Project Management Maturity (PROMMM)





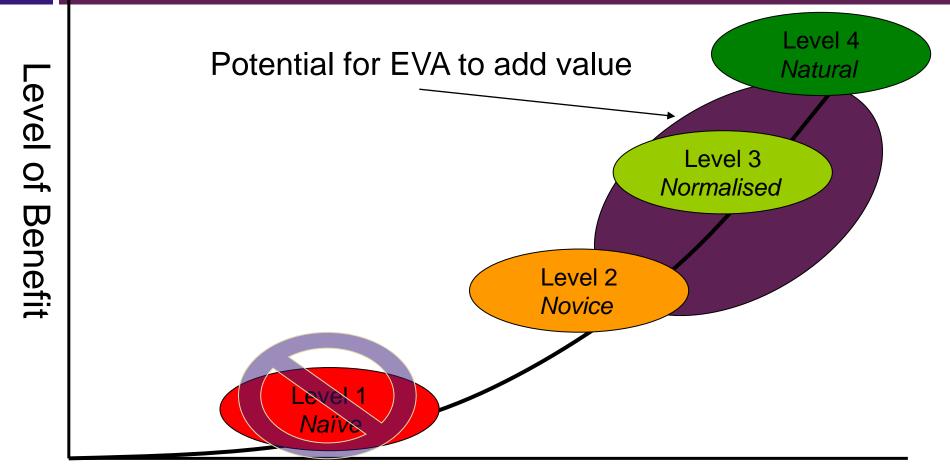


MATURITY LEVEL	CHARACTERISTICS
Natural	Fully project based culture in all aspects of the business
<i>Normalised</i>	Management of projects is built into routine business processes, and generic project management processes are implemented across all aspects of the business
Novice	Experimenting with project management, but no formal processes in place
Naïve	No structured approach to project management
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PROJECT TRAINING



At What Maturity will EVM add Value?



Maturity Level





- Earned Value Management brings significant benefits to project management.
- However may barriers exist to it's successful implementation.
- Organisations need to be sufficiently mature before implementing EVM.
- EMV can stimulate novice organisations move to higher levels of maturity.



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