
ACCELERATING GROWTH



“What makes a good plan and how do you know you’ve got one?”

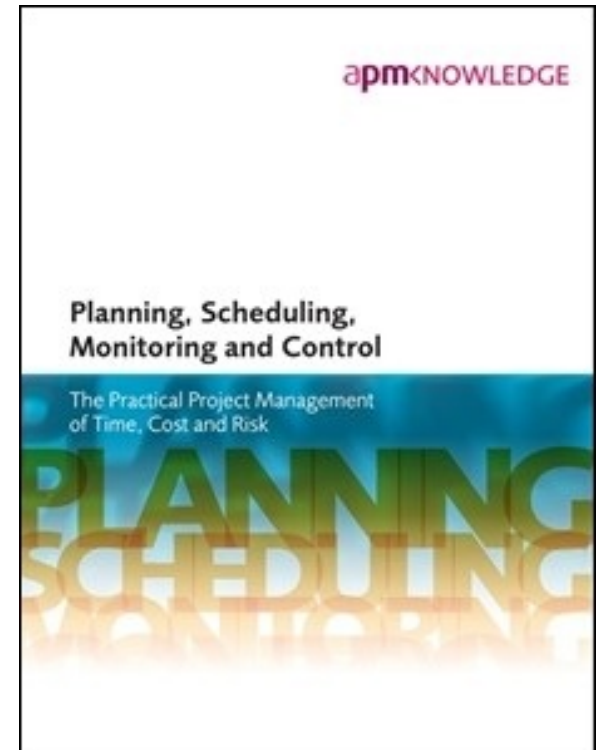
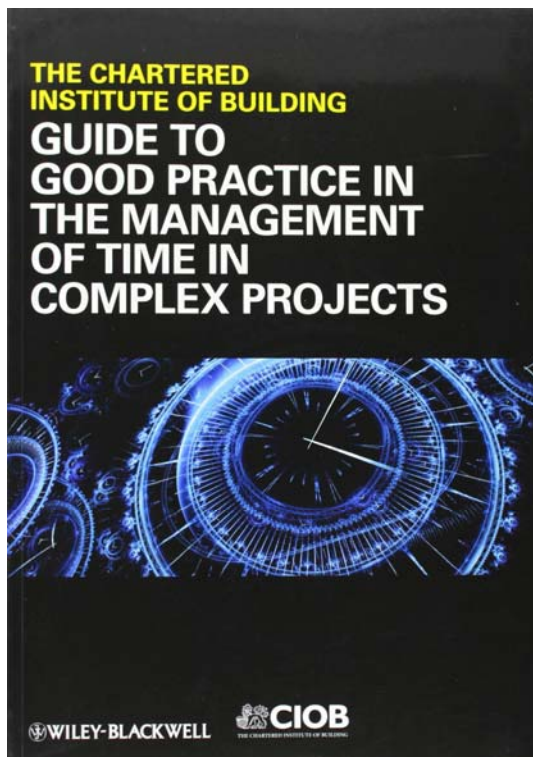
Paul Kidston
16th November 2017



Meeting national needs through people and innovation

Paul Kidston FCIQB





“A learning experience is one of those things that say, “You know that thing you just did, Don’t do that””

- Douglas

What makes a good plan and how do you know
you've got one?



What is Planning...and Project Control

What is it for?

What MUST you do to do it?

How do you know if you're doing it well?

What is Planning?

The logo for COSTAIN, consisting of the word "COSTAIN" in white capital letters on a blue rectangular background.

“Planning is an unnatural science; it is much more fun to go and do something...”

And the nice thing about not planning is that failure comes as a complete surprise rather than being preceded by months of worry and depression.”

Sir John Harvey Jones

What is Planning?

- Definition of Planning...the management of:
 - Scope
 - Cost
 - **Time/output**
 - **Resource**
 - Risk
 - Change
 - Reporting

What is Planning for?

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What does good planning do?

- Decision making tool
- Winning Work
- **Directs effort: Communicates method, sequenc**
- **Determines resources**
- **Manages dependencies**
- Forecasts – early warning (CPA)
- Forecasting – e.g. Cash flow
- Assurance...or Escalation

But only where there is active participation...

“Failing to Plan is Planning to Fail” - Alan Lakelin

What is Control?

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“The trouble with plans was that they tended to be expressions of hope. So plans only reveal what people wish for.

The only way of finding out what they will actually do is by watching them. Then you would know what they might do in the future – because most people did what they have always done.”

-Mma Ramotswe paraphrased from Alexander McCall Smith.

What is Planning...and Control?

- Definition of Project Controls...the management of:
 - Scope
 - Cost
 - Time/output
 - Resource
 - Risk
 - Change
 - Reporting
- "Project Control is the creation of cost and time plans, the setting of targets and checking achievement of those targets. It can forecast outcomes, and promote decision making to improve the outcome of the project."

“You can’t manage what you don’t measure” – Peter
Drucker

What is it for?

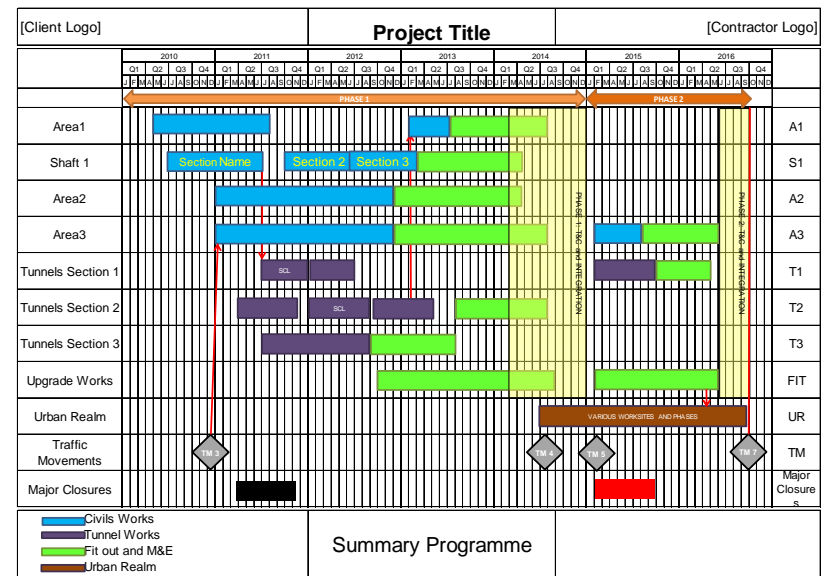
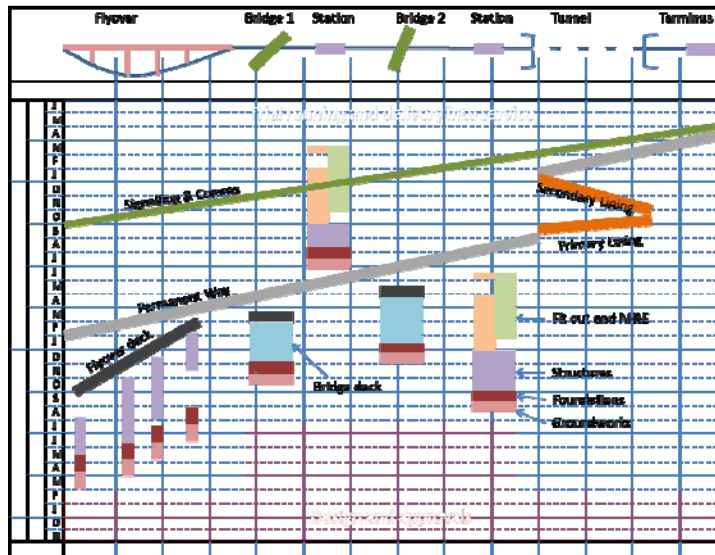
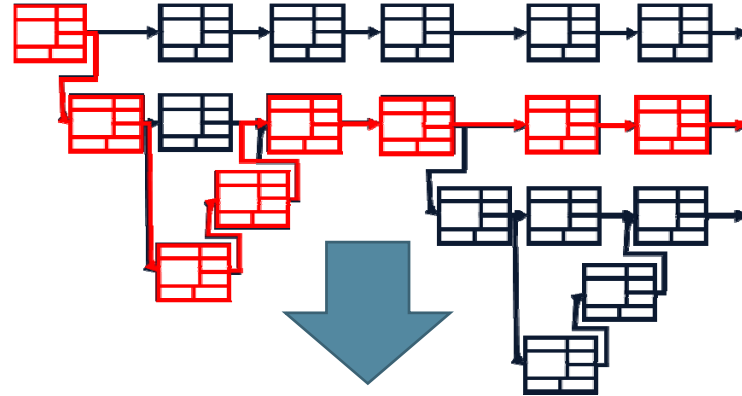
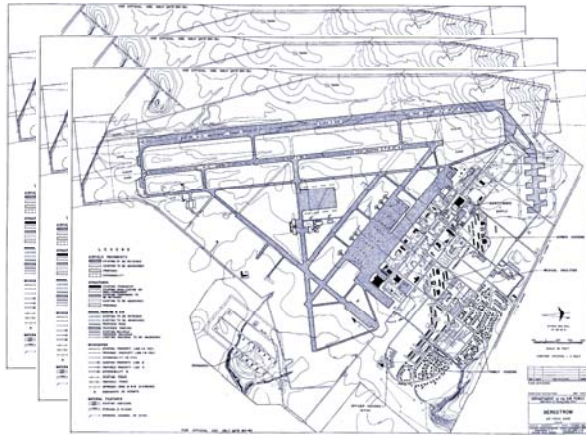
What does good project controls do?

- Exerts Control
- Holds to account
- Informs decisions
- Drives improvement
- Forecasts – early warning (EVA...v CPA)
- Forecasting – e.g. Cash flow
- Assurance...or Escalation

"Project Control is a Catalyst for Action."

But only where there is active participation...

Planning: What must you do?



Planning: What must you do?

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Look at drawings/specs/requirements etc.

Identify tasks/durations/ working periods

Sequence & method

Communicate the plan...by best means possible

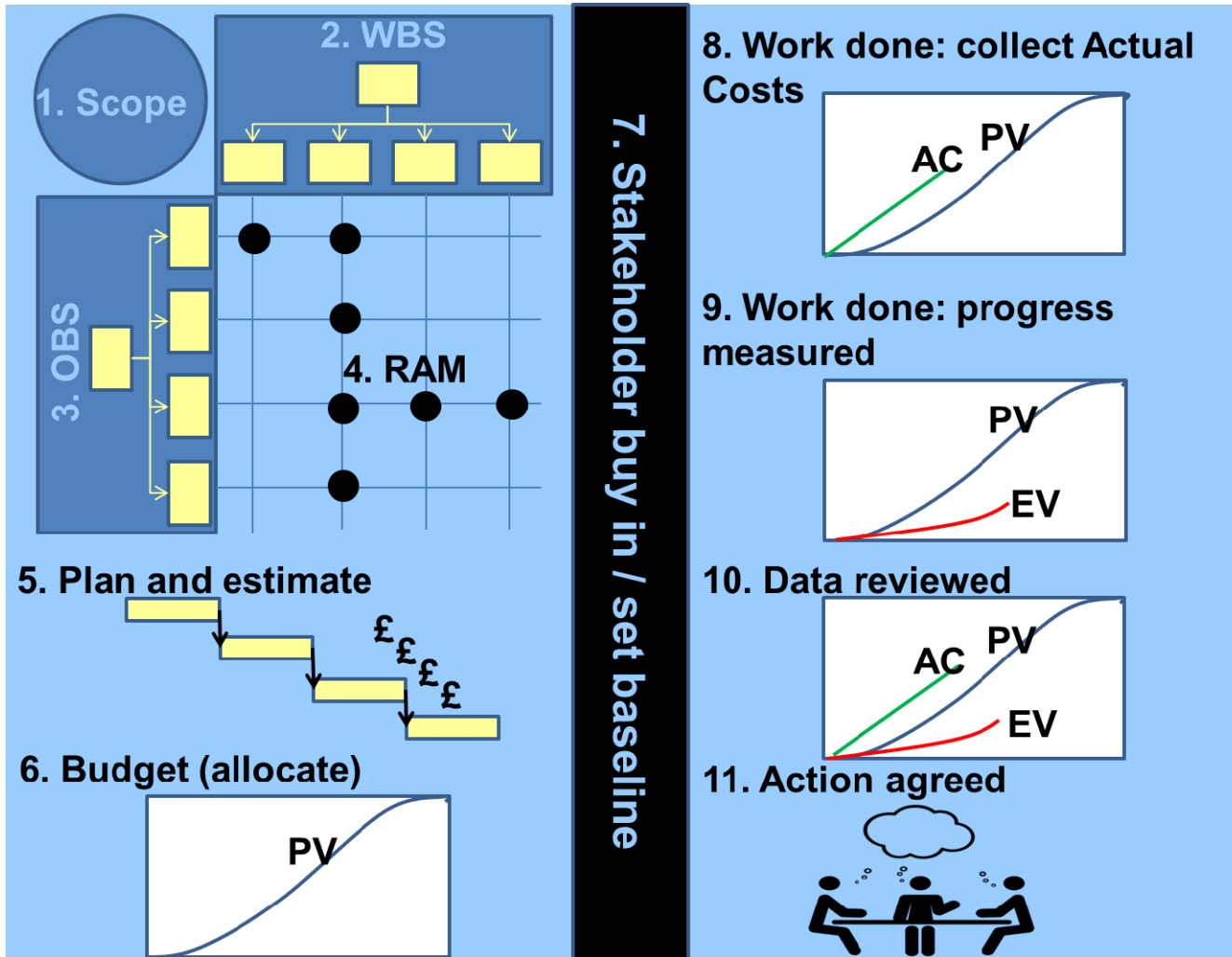
Then

Method of measuring progress

Interpreting, forecasting, analysis (CPA, EVA)

Corrective action

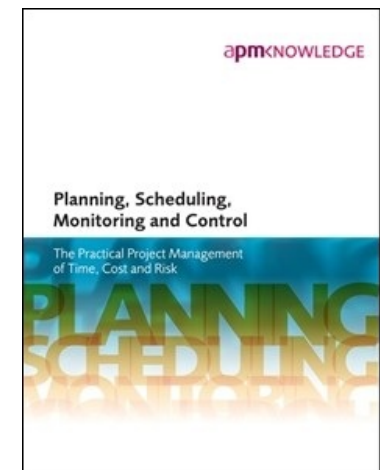
Control: What must you do?



How do you know if you're doing it well?

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“Fundamental checks of the schedule should confirm that the full project **scope** has been included; that the schedule describes a **practical methodology** for delivering the work; and that all **contract deliverables, constraints, key dates** and milestones are included.”



How do you know if you're doing it well?

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The APM book talks about

Planning Checks (Scope, Admin)

Scheduling Checks (like DCMA)

There are also:

Engineering Checks (Method, duration, resources,
sequence)

Process Checks (Procedures, tools)

Planning Checks

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Admin issues

Management Issues

Contract Requirements

Scope captured

Associated Documents

Float (Strategic)

Communication

Scheduling Checks

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- | | |
|-----------------------|--------------------------------|
| 1. Logic | 5% is acceptable?? |
| 2. Leads | }@ all densities?? |
| 3. Lags | } compromises showing intent?? |
| 4. Relationships (FS) | 90% acceptable |
| 5. Hard Constraints | 5% is acceptable?? |
| 6. High Float | A good thing?/ Warning! |
| 7. Negative Float | A fact?/ Warning! |

Scheduling Checks



8. High Durations	?Density/Rolling Wave Planning
9. Invalid Dates	✓
10. Resources	✓ ...
11. Missed Activities	Performance
12. Critical Path Test	✓?
13. CPLI	?
14. BEI	Performance

What is an activity?

Engineering Checks

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Method

Sequence

Resources

Safety

Risk

Golden Rules

Programmes must:

Cover the full scope of the works

Recognise sectional completion and other key dates.

Be based on contract working hours. (Calendars)

Allow for documentation and handover

Be agreed with, and owned by, the project manager

Have a critical path (Logic, constraints).

Plan the resources required and the flow of these

resources.

Golden Rules



Have activities with a unique ID that is never revised or reused.

No activity covers more than one trade/ subcontractor.

Have a baseline.

The baseline must be maintained, not static

Have a narrative that explains key logic, strategy, risk etc.

Be updated with progress on a weekly basis

Be updated with change as the contract changes.

And

Records of output rates must be collected and collated

How do you know if you're doing it well?

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You're doing it well if you have communicated: (but)

How do you know if you're doing it well?

COSTAIN

“The most common problem with communication is the illusion that it has taken place”

George Bernard Shaw

How do you know if you're doing it well?

COSTAIN

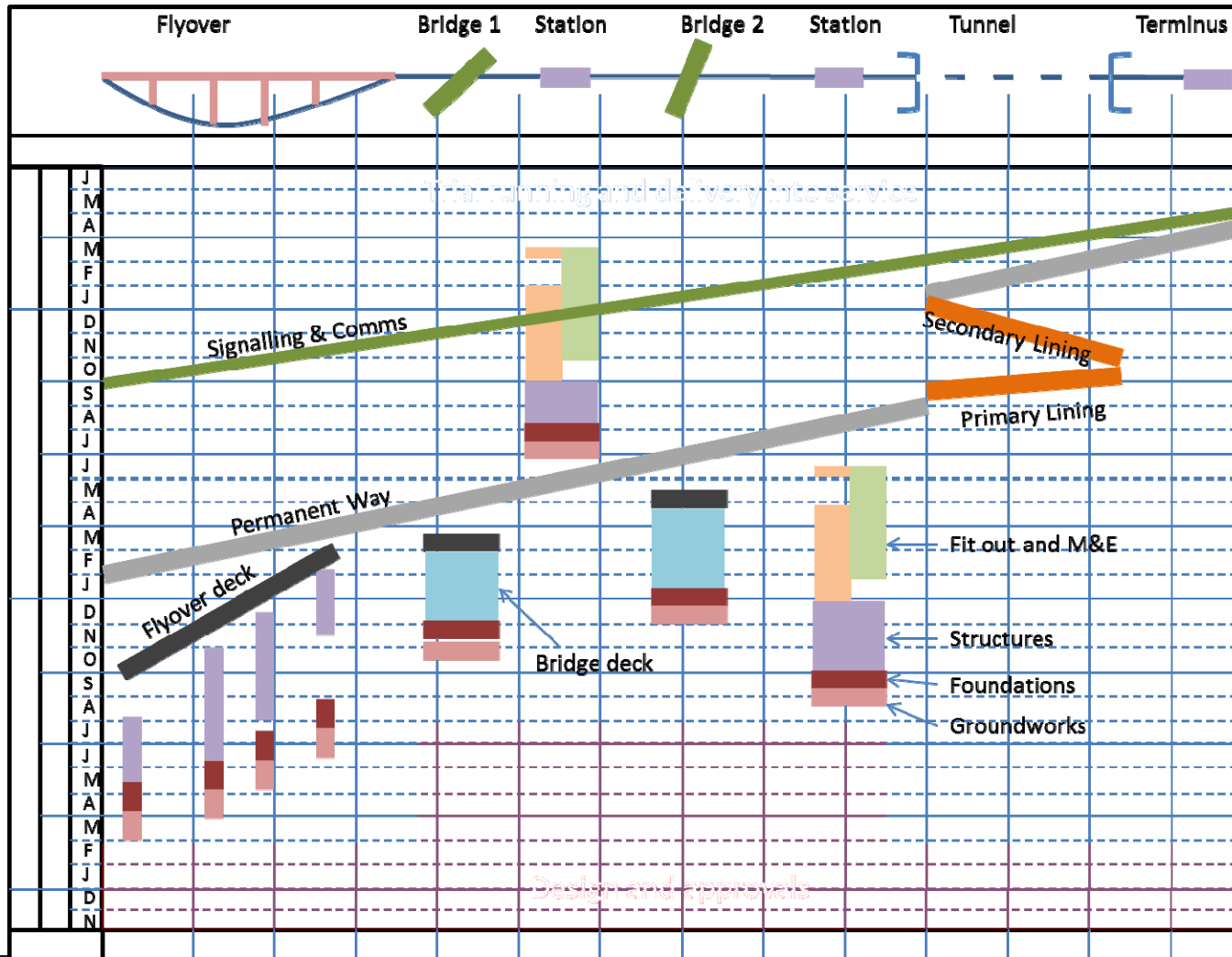
You're doing it well if you have communicated:

Tailored to your audience

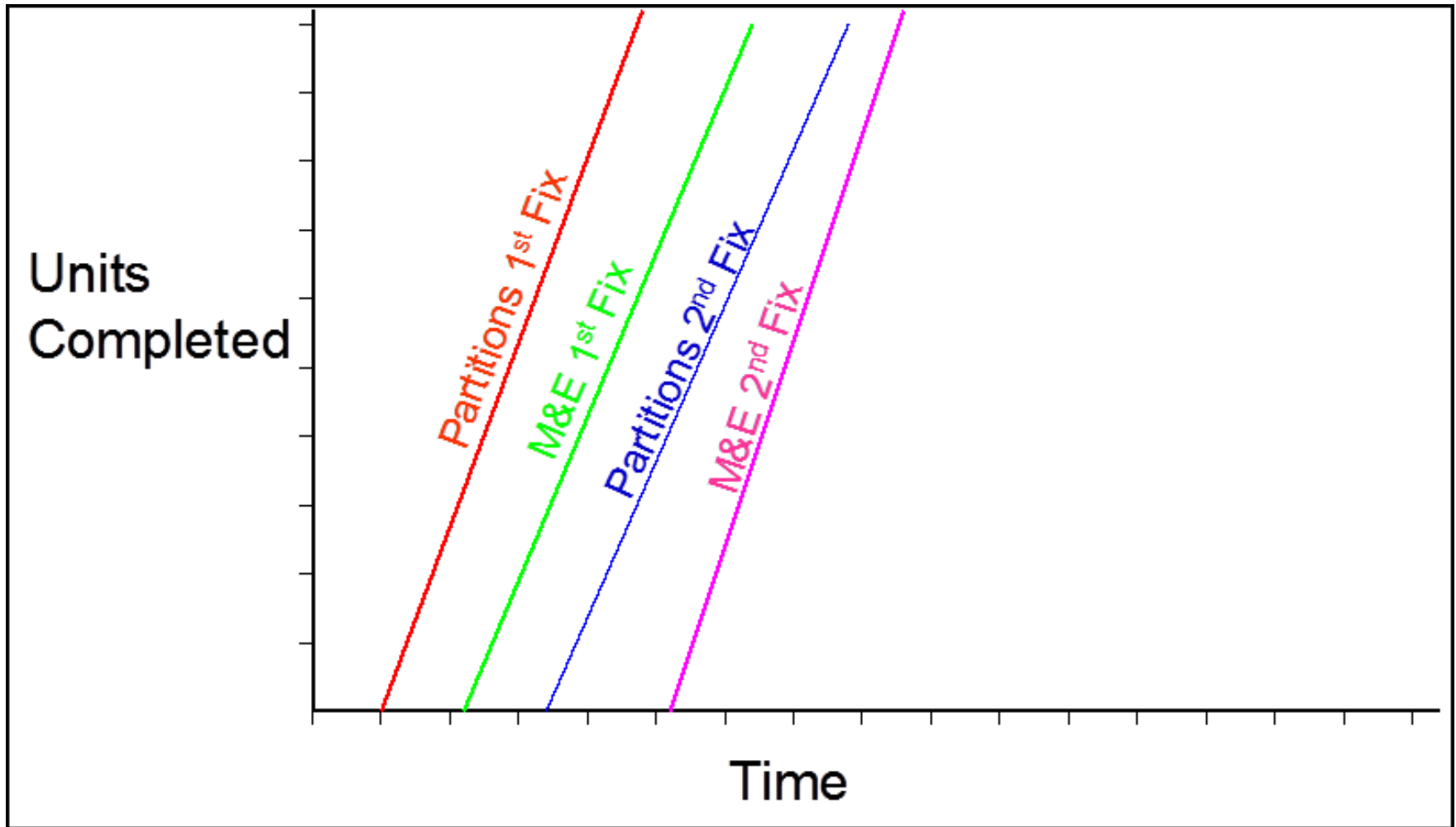
Simple is generally best

Gantt charts...

How do you know if you're doing it well?



How do you know if you're doing it well?



How do you know if you're doing it well?

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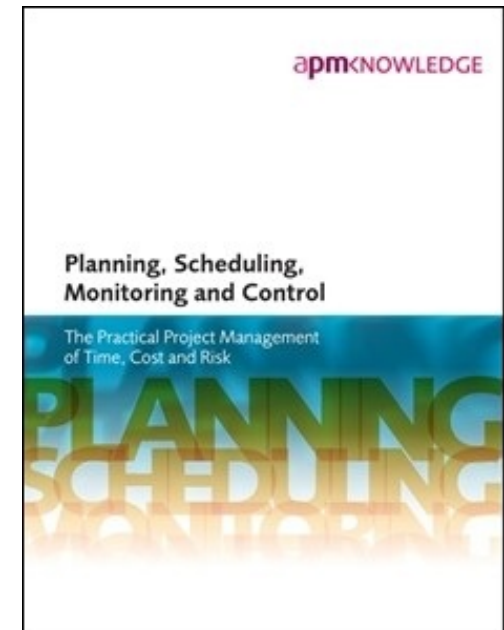
Simple is generally best

Gantt charts...

...or Time Chainage...

...LOB...

...Marked up drawings...



How do you know if you're doing it well?

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Things that make for a bad plan:

Team not involved (or bought in)

Too much detail part 1 (what is appropriate?)

Too much detail part 2 (the wrong stuff...)

(Keep separate trackers – why?)

Poor schedule design (and lack of structure)

Poorly defined calendars etc.

How do you know if you're doing it well?

Things that make for a bad control:

- Reporting to period end...2 weeks in advance please
- As a result ... please forecast 2 weeks of progress
- Wrong level of detail
- Many sources of data
- Many overlapping reports
- Automation
- Poor Record Keeping
- Work Breakdown structures considered too late...
- Producing data, not doing anything with it.

How do you know if you're doing it well?

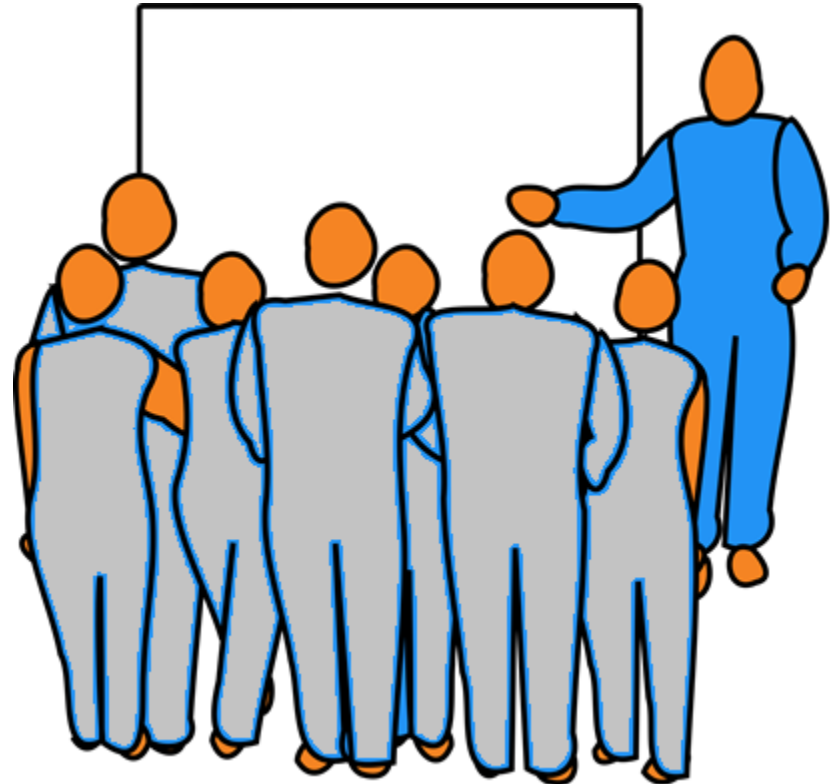
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“I have always found that plans are useless, but planning is indispensable”

Eisenhower

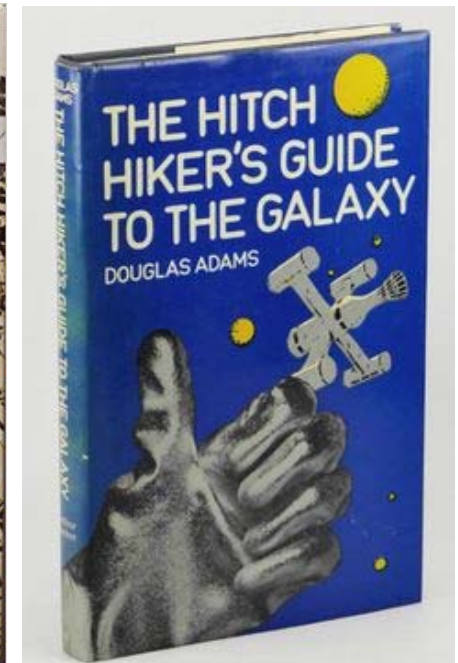
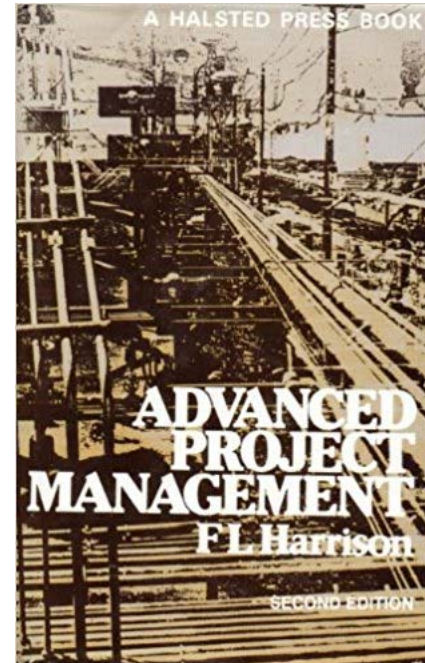
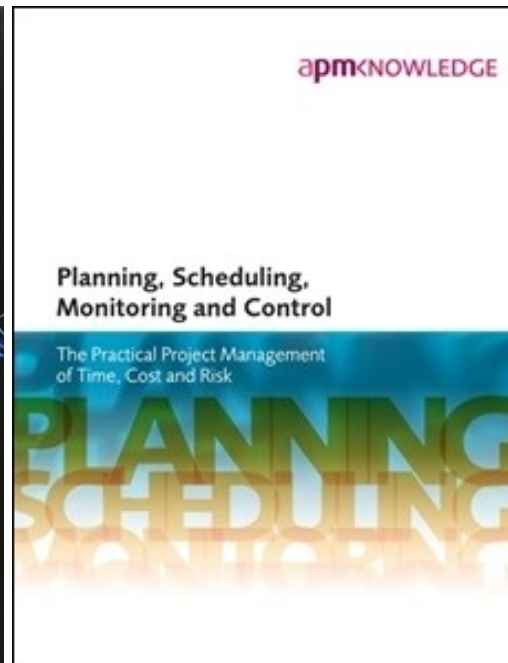
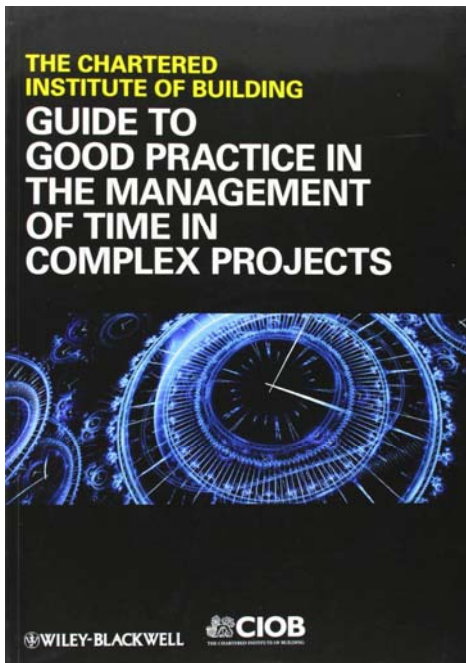
How do you know if you're doing it well?

COSTAIN



“I have always found that plans are useless, but planning is indispensable”

Eisenhower



“Begin at the beginning...go on until you come to the end,
then stop”
- Lewis

Carroll

The End

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“You may not control all the events that happen to you, but you can decide not to be reduced by them”

-Maya Angelou

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34