Delivering Effective Schedules Through Effective Planning

Patrick Weaver PMP, PMI-SP, FCIOB. patw@mosaicprojects.com.au

Managing Time

mossic

Outline

- The static measurement of failure!
- The Guide
 - Project Planning
 - Project Scheduling
- Developing effective schedules
 - Standards
 - Education Framework
- Discussion



Crystal Palace

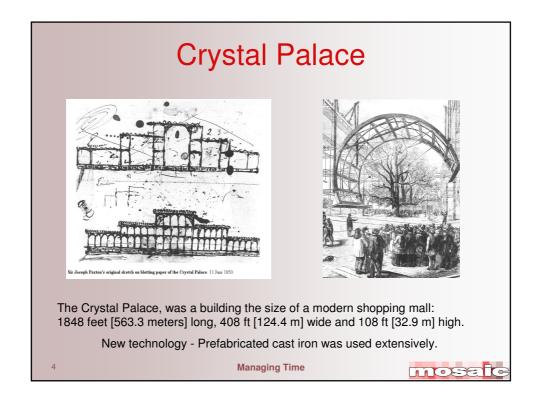
- We are not so good!
- Crystal
 Palace.....
- Built in 1851

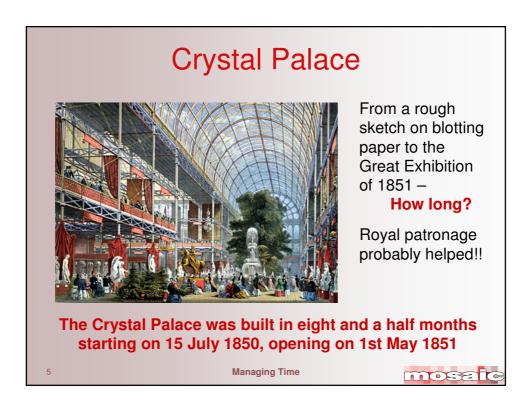


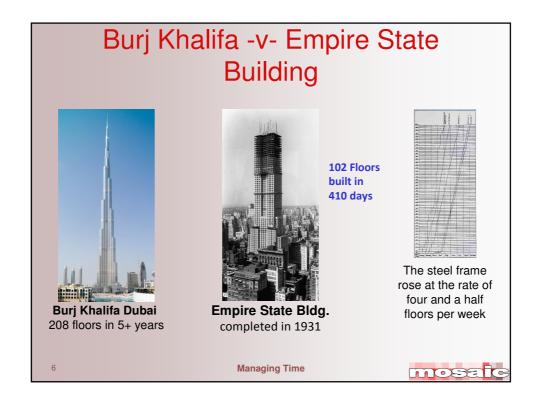
mosafe

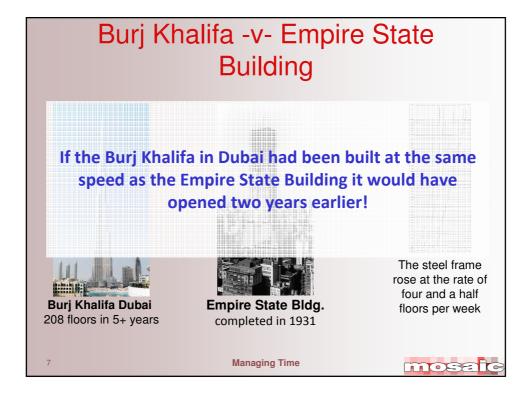
Managing Time

3









Time -v- Money

- Money keep until you spend
 - Symptom of other successes or failures
- Time 60 seconds lost every minute
 - Can't change the past
 - Now is too late to change
 - Manage the future

8



Time -v- Money

- Things that don't work!
 - Contract terms and conditions / penalties
 - CIOB Report
 - UK Government metrics (Constructing Excellence)
 - Static contract programs
 - · Measure failure
 - Used for claims and court actions after the event

9

Managing Time



Time -v- Money

- CIOB Construction projects
 - Managing the Risk of Delayed Completion in the 21st Century

http://www.mosaicprojects.com.au/PDF/CIOB TM report full.pdf

- Gartner ICT projects
- Both show around 50% failure rate!

10



Skills and Knowledge

- Skills and Knowledge
 - Very few skilled planers and schedulers
 - Not used or respected by management
 - Except for the fights after the event
- A Brief History of Scheduling

http://www.mosaicprojects.com.au/Resources_Papers_042.html

-11

Managing Time



Skills and Knowledge

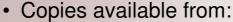
- Solutions are being developed
 - Definition of good practices
 - Development training and certification
 - Education of management
- These elements are the focus of the balance of this paper

12



The Guide

- PMI Scheduling Excellence Initiative
- Guide to Good Practice in the Management of Time in Complex Projects





http://www.mosaicprojects.com.au/Books.html#CIOB_Guide

13

Managing Time



The Guide

- Planning -v- Scheduling
- Schedule design
- Schedule Density
- Updating & Maintaining the schedule
- Reporting & Communicating

14



Planning -v- Scheduling

- Project Planning
 - Strategic process
 - Focus on objectives and methods
 - Foundation for scheduling
- Project Scheduling
 - Develop and maintain an effective schedule

15

Managing Time



Precedes Scheduling Focuses on methods and Strategy Creative - requires skill and knowledge of the project

Project Scheduling

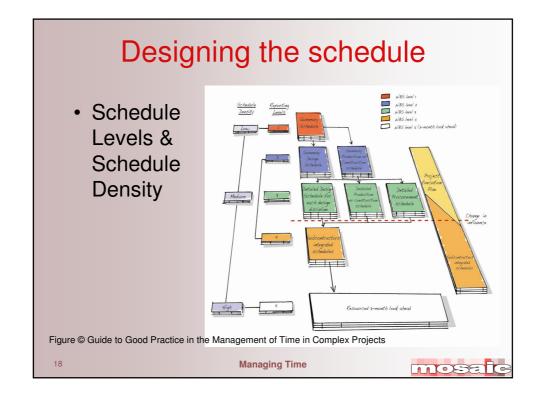
- Requires good knowledge of scheduling
- Understanding of the scheduling tool
- · Involves:
 - Designing the schedule
 - Developing the schedule
 - Maintaining the Schedule

See also: Core Papers @

http://www.mosaicprojects.com.au/Planning.html

17





Schedule Density

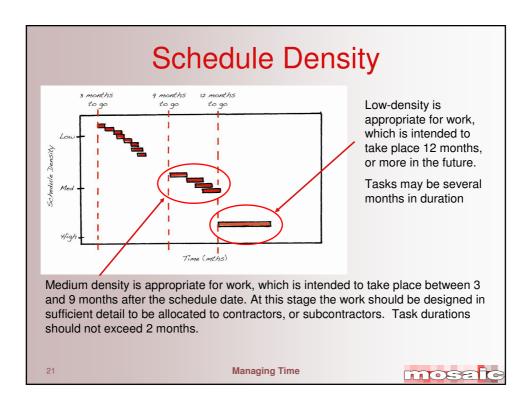
- Schedule Density
 - Overall framework is essential for Time Management.... But
 - Detail planning requires the people doing the work to be involved (eg, Last Planner)
 - Therefore, add detail when appropriate

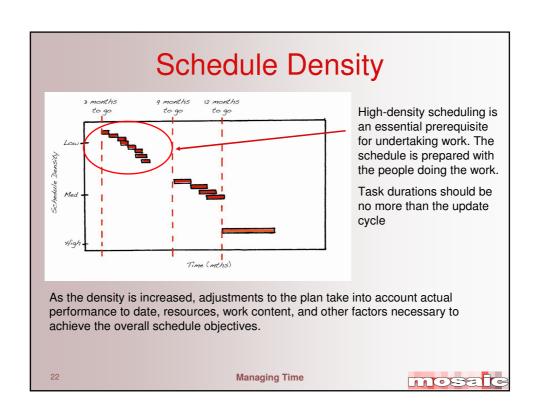
19

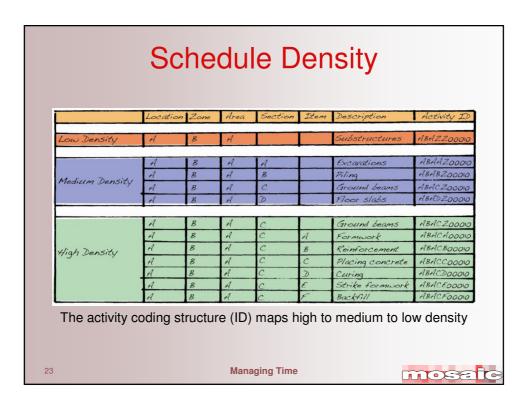
Managing Time



Figures © Guide to Good Practice in the Management of Time in Complex Projects Activities are progressively expanded to greater levels of 'density' as more information becomes available Unless the work is designed in its entirety and all subcontractors and specialists appointed before any work commences, it is impossible to plan the work in its entirety, in detail at the beginning of a project.







Developing the schedule

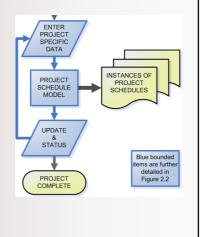
- Practical Logic
 - Organise the activities into a logical sequence
 - Only use 'real' activities and logic
 - Use Finish-Start relationships where possible
 - Keep getting agreement

24



Maintaining the Schedule

- Establish a baseline
 - At the development stage
 - As part of a re-baseline
- Record actual progress
- Reschedule from 'data date' (or Time Now)



mosaic

25

Managing Time

Maintaining the Schedule

- Edit for accuracy
 - No tool accurately manages all of the issues around partially complete tasks
- Involve both task owners and managers
 - Use 'their data' not yours!

See: Managing for Success - The power of regular updateswww.mosaicprojects.com.au/Resources Papers 002.html

26



Reporting Options

Data is not information, information is not knowledge, knowledge is not understanding, understanding is not wisdom.

Clifford Stoll

See: Beyond Reporting - The Communication Strategy http://www.mosaicprojects.com.au/Resources Papers 094.html

27

Managing Time



Reporting Options

 The major challenge with scheduling is communicating complex data effectively



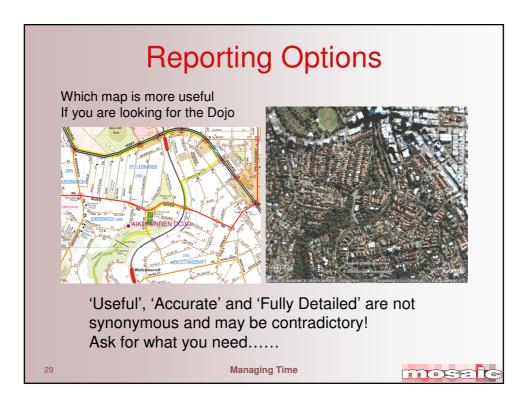
 This is achieved by effective reporting

See: Seeing the Road Ahead –
the challenge of communicating schedule data

http://www.mosaicprojects.com.au/Resources Papers 106.html

28





Qualification Framework This section:

- Current certifications
- Planning Planet
- CIOB Time Management Credentials

30



Qualification Framework

- Current Qualification Framework
 - Association for the Advancement of Cost Engineering International (AACE) PSP
 - PMI Scheduling Professional (PMI-SP)
- Both focused on highly experienced schedulers 3 to 5+ years

31

Managing Time



Qualification Framework

- Limited training for PMI-SP or AACE
 - Assumed self study by experts
 - Mosaic's PMI-SP course one of the few available (and in low demand)
- Relatively low numbers of credentials awarded
 - 650 AACE in 6 years
 - 360 PMI-SP in 3 years

32



New Developments

- Planning Planet: www.planningplanet.com
 Planning Planet Accreditation Scheme (PPAS)
 - Developing training materials
 - Developing accreditation process
 - Likely to offer industry based qualifications
 - Entry level certification included

33

Managing Time



Planning Planet

- PPAS –Standard Documents
 - -SD 0 Why Plan?
 - SD 1 Planning, Scheduling and Project Control Methods
 - SD 2 Designing the Schedule
 - SD 3 Creating and Building the schedule
 - SD 4 Maintaining the Schedule
 - SD 5 Using the schedule or Specialism's

34

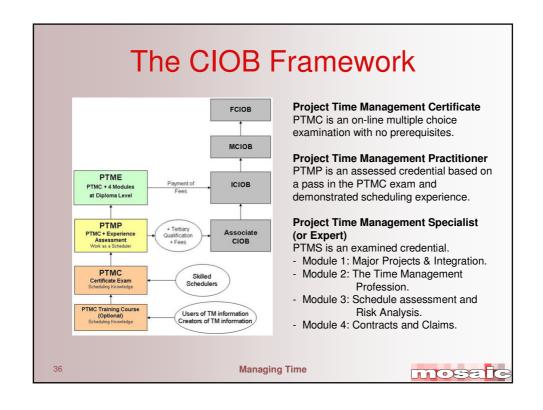


New Developments

- CIOB Time Management Credentials
 - Three levels
 - Based on The Guide
 - Certificate courses late 2011
 - Higher level certifications to follow

35





CIOB TM Framework

- Examination specifications under development
 - Certificate no industry bias
 - Higher levels Construction industry
- International team (including me)
- CIOB has 190 years of experience as a professional association
- · Australian Region and office

37

Managing Time



What Mosaic is doing:

 We are developing a free resource at www.mosaicprojects.com.au/Planning.html



Conclusion

- Definite trend towards
 - Standardising planning and scheduling
 - Developing training frameworks
 - Accrediting Planners and Schedulers

39

Managing Time



Conclusions

- Solve the 'chicken and egg' conundrum
 - Well trained schedulers can help project managers and advise senior managers
 - But no one is training schedulers
 - Therefore very few people experience the benefits of working with skilled schedulers
 - Consequently they don't know what they are missing
 - And don't invest in training.....

40



Conclusions

- We need a management re-education program
 - SOX, etc mandate the need for predictive process like scheduling
 - So why do so many projects have time 'set in stone' before anyone looks at a realistic schedule?
 - Senior managers need to understand the value of skilled schedulers

41

Managing Time



Conclusions

- International credentials will help
 - Focused on new planners and schedulers
 - Planning Planet & CIOB are in discussion to normalise or coordinate
- The Guide and PMI's Practice Standard provide the framework
- We have the opportunity to reinvigorate the role of planning and scheduling

42



Conclusion

- Challenges:
 - Keep training and credentials aligned
 - Gain respect of management
- We can make a difference!

Useful schedule are useful because they are used!

43



