Project Management Primer

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Structure of this talk

- I plan...
 What is a project (and what isn't)
 Workable aims and objectives (and the project brief)
 Two examples of projects
 The team (and the project manager)
 Some vocabulary!
 Planning and scheduling
 Gantt charts
 Some software
 Distributed teams



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Why plan? Why do some people not want to plan? What is our answer to this? What are the benefits of planning? What are the dangers of planning?

What is	a project?	
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What is	s a project?	
- specific - definite - a budg - Does th - Brickla - (all - Discove	s should have: c outcomes start and end dates et at work at a University? ying projects building blocks known) ery (research projects) n't know what we're going to find)	
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Early planning · Project brief A concise expression of the purpose (aims etc.), cost, time and performance requirements/constraints for a project. Useful to achieve very early The outline project plan as part of a funding bid . Include the main objective And then the secondary objectives As much as you know at this stage

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Is the project a good idea?

. Realistic?

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- SWOT analysis
- Cost/Benefit analysis
 Of the final outcomes
 Of the costs that will be incurred to make the project a success (or the 'system work' etc.)
- . Is there work that the project will displace
 - You're busy already, right?

Defining your project

- . It's got to be clear, or else you'll never know when it's finished!
- · Quantity, quality, cost, time, resources, final outcome
- A clear objective (SMART)
 - have a usable brick wall outside the house...
 - produce a report (by...) that has appraised all of the available technologies to...

 (you may have assumed that you will need to do more, but the report with some quantity and quality measures is the final outcome)

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Types of projects Bricklaying a known procedure e.g. plan, buy machine, test, decomission old, install new, train users e.g. plan, buy materials, dig footings, build wall, liaise with customer Research lots of unknowns e.g. plan, investigate a, investigate b, test a, write reports on a and b, build prototype, final report typically 4 or 5 phase: Conceive, Define/plan, Scoping, Research, Report

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What did we learn there? Tasks Bits of work (and it won't help breaking down any more) Work packages Logical groupings of tasks (not necessarily carried out together) WBS Work breakdown structure (the lists of tasks) Resources (people, usually) Dependencies Driving the duration of the project Planning for the unknown We should be able to estimate the durations of most tasks

Vocabulary	y!	
Champion Critical Path Gantt Milestone Project Project brief Programme Project Board Scope	.SMART .Sponsor .Stakeholder .Task .Workpackage	
- Šcope creep	Glossary at http://www.apm	.org.uk/
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Planning down into the details

- Get as detailed as you can
 - You can always change it later
- Often a battle with more technical or knowledgeable colleagues
- You need this
 - To make decent estimates

 - To try not to forget anything
 To be able to re-schedule (and re-prioritise) later when things go

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The team

- . We often have little choice
 - But think about the variety of roles, personalities and expertise
- A team isn't simply a group
 If you really want team work, everyone needs to feel responsible for some thing(s) and empowered
- · Balance between wasting time and empowerment
 - You need team members' input when planning, estimating and re-
 - scheduling

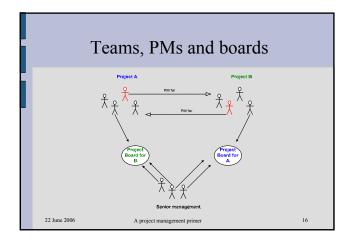
 If everyone is keen, meetings are shorter

Whence the PM?

- . Can you be a project manager of a project that you're working heavily upon?
 - Some can, some can't!
- If you have two projects consider having the project managers managing the 'other' project

 - But you may have a great overlap of staff between projects (which is a risk)
- . Does the PM need to be a leader?
 - Depends on the team and larger organisation

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]	Tracking progress
1	Something to be done at the end?Not relevant in our environment?
	Do it on set dates It is part of the project It's your job – make sure you do it
	Things will go wrong You need to re-schedule (it's normal!) +/- 20% is OK if everything balances out
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Ongoing costs Tracking costs Costs incurred (actuals) vs budgeted cost and work done Cost Performance Index (example) Budget cost of work performed = 600 = 0.8 Actual cost of Work performed = 750 Anything above 1.1 or below 0.8 should be investigated Anything below 0.66 and you should advise the project board And there are guidelines for actions in between

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When things go wrong Staff changes - Almost certain for some projects . Always allow or 'hide' some slack - OK for the project? Slipping deadlines - Is there a pattern? (or is it part of the +/- 20%?) - Do you need to re-schedule or re-plan? Scope change - Bad - Watch out for it - Different scope or objectives = different project!

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Distributed 'team' management These days, software helps People can report frequently to say they've "done 80% of task 26" Software can chart the progress automatically. Email lists, wikis, calendars All optional, but avoids having too many meetings (or having to wait for meetings)

Some software				
- Ime	rosoft Project Probably the most accessible (but a little complicated) Probably the most accessible (but a little complicated) Propensource, free Open source, free Very simple, MS Project-like approach (Available for Windows and Linux) http://www.imendio.com/projects/planner		Managing Microsoft Project Complicated and not primarily designed for collaborations dotProject Open source, free Installs on a server Very good for collaborations Works in your browser (internet Explorer, Firefox etc.) http://www.dotproject.net/	
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Things I haven't mentioned

- Quite a lot...
- Critical path on a gantt chart
- Risk assessment/management
- Team building strategies
- The financials
- Scope creep
- When to write a project off
- And maybe formulate another
 Reviewing successful and unsuccessful projects

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Resources

- Within the University:
 Learning institute
 http://www.learning.ox.ac.uk/
 Project management lunchtime and day-long seminars
 OUCS

 - http://www.oucs.ox.ac.uk/learning/
 Project planning course (maybe project management soon)
- Higher Education
 - gner Education
 Leadership Foundation for Higher Education some resources and training etc. http://www.lfhe.ac.uk/
 (Was previously Higher Education Staff Development Agency http://www.hesda.org.uk/)
 See http://www.hesda.org.uk/activities/publications/gmp.html

Resources (2)

- British Educational Research Association
 http://www.bera.ac.uk/index.php
- http://www.grad.ac.uk
- Project Management Institute (International)
 http://www.pml.org
 http://www.edsig.org/ (Education SIG for the PMI)
- International (academic) research into PM, based in Manchester.

 http://www.umist.ac.uk/departments/civil/research/management/rethinkpm

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The end • Questions? • These notes (and project files etc.) at • http://users.ox.ac.uk/~markn/projplan/itss/ • Mark Norman • marknorman@oucsoxacuk

A project definition

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(Sunny and Kim Baker)

"A project is a sequence of tasks with a beginning and an end that are bounded by time, resources and desired goals. This means that a project has a specific, desired, outcome; a deadline or target date when the project must be finished; and a budget that limits the amount of people, supplies and money that can be used to complete the project."

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