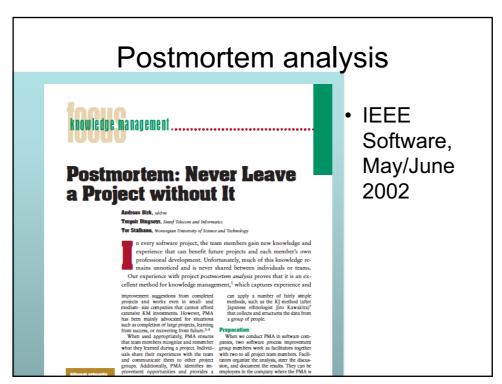


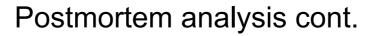
Learning organization

 "A learning organisation is an organisation skilled at creating, acquiring, and transferring knowledge, and at modifying its behaviour to reflect new knowledge and insights"

> D. A. Garvin, "Building a Learning Organization", in Harward Business Review on Knowledge Management, pp. 47–80, Harward Business School Press, Boston, USA,

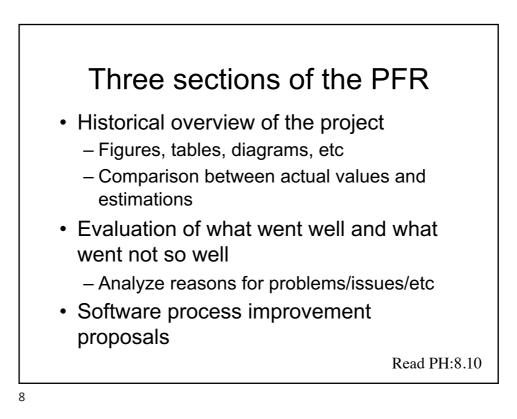
• <u>Requires</u>: systematic problem solving, experimentation, learning from past experiences, learning from others, and transferring knowledge





- "Ensures that the team members recognize and remember what they learned during the project"
- "Identifies improvement opportunities and provides a means to initiate sustained change"

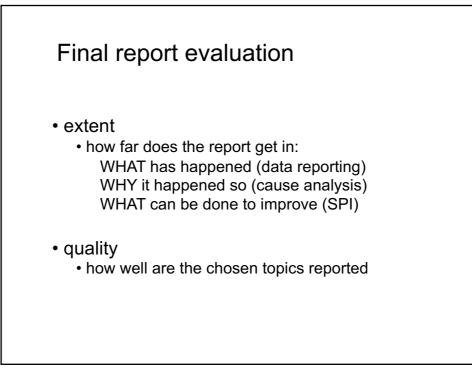




Include at least

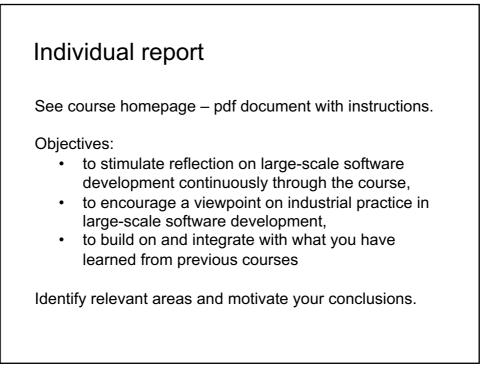
- · Effort per phase
- · Start and end dates for each phase
- Effort per document
- · Start and end dates for each document
- · Effort for different activities in each phase
- Effort per group & week
- · Analysis of problem reports in phases

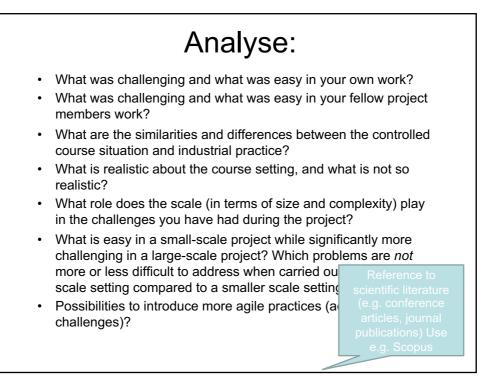


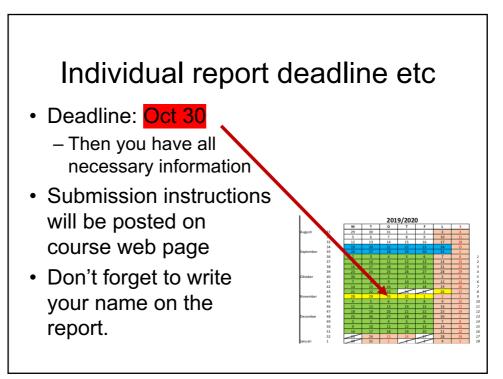


PFR development process

- Ongoing now... you need to collect data and you need to analyze/discuss the data (and I know you are doing that)
- PL main authors but they need input from everyone
- Informal reviews are recommended → they improve quality → shared responsibility

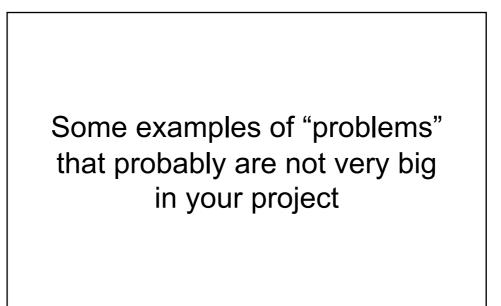


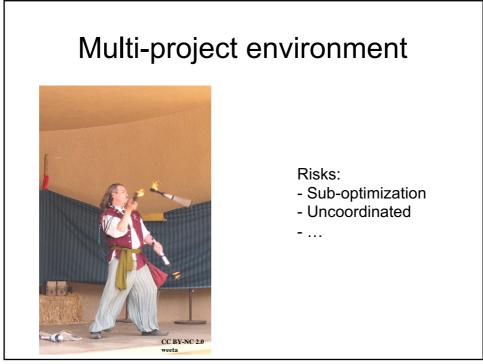


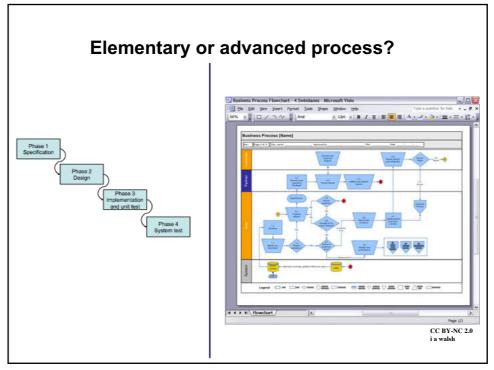


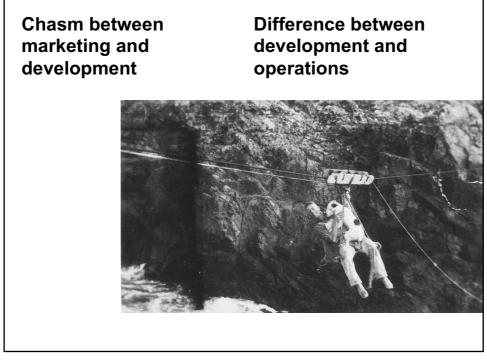
Examples of real difficulties in real industrial projects

- 1. What is actually the best set of requirements?
- 2. How much uncertainty in effort estimation can we cope with?
- 3. At what level of detail should we document requirements?
- 4. How to minimize waiting time for other parts to be ready before we can start our part?
- 5. How to make more parts in parallel without generating confusion and unnecessary rework?
- 6. How to know when the product is reliable enough to be released?
- 7. How to incorporate changes without generating spaghetti and excessive cost of rework?

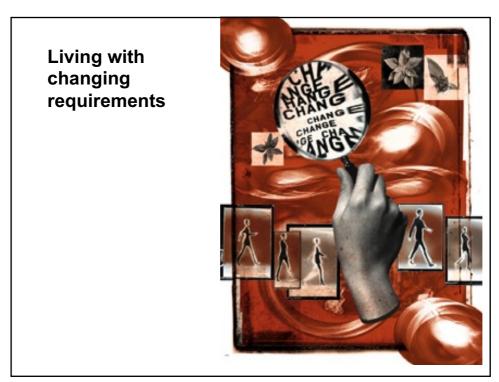


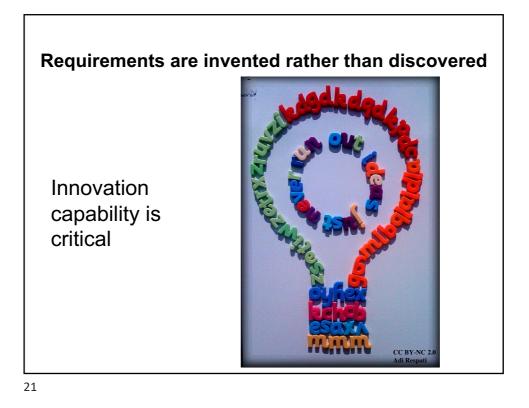


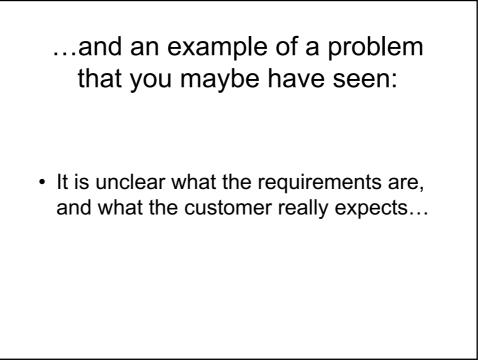








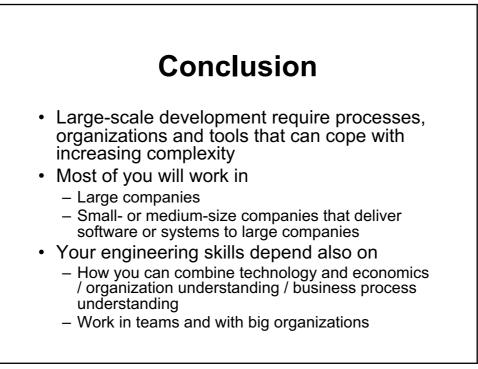




Eliciting and understanding is difficult because

- Stakeholders often don't know what they want from the computer system
- Stakeholders naturally express requirements in their own terms and with implicit knowledge of their own work
- Different stakeholders have different requirements, which they express in different ways
- Political factors may influence the requirements
- The economic and business environment in which the analysis takes place is dynamic → requirements may change during the project

Sommerville, Software Engineering, 8:th ed, Addisson-Wesley, 2007



Discussion (collection of typical problems)

For each slide, identify/discuss

- Underlying problem/issue/area
- Is this a realistic/real problem?
- What process improvements could be made?