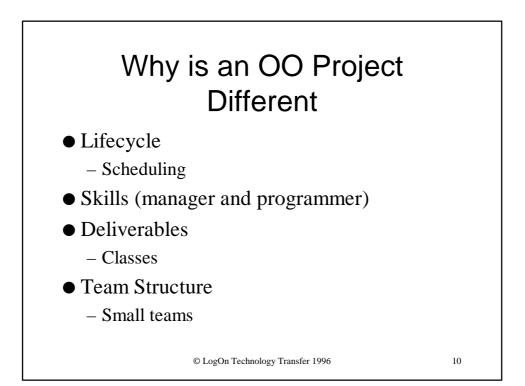


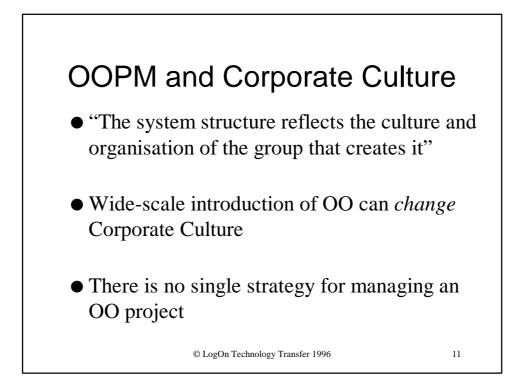


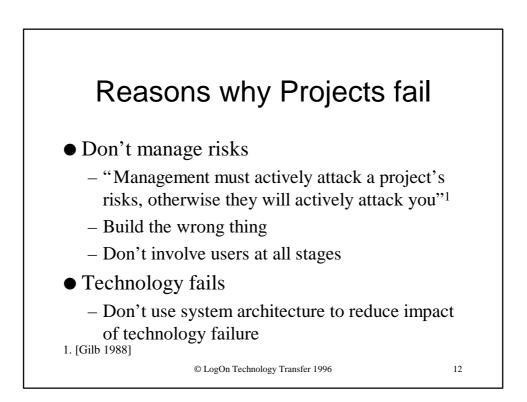
• An OO project is a *sequence* of *unique*, *complex* and *connected activities* having one *goal* or *purpose* that must be completed by a *specific time*, *within budget* and *according to specification*, that uses *Object Technology* to help reach its goal.

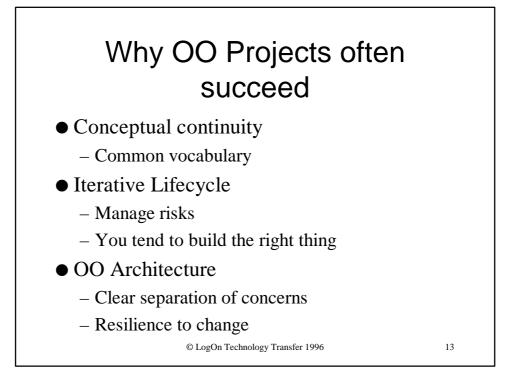
Clarity of purpose
Conditions of Satisfaction

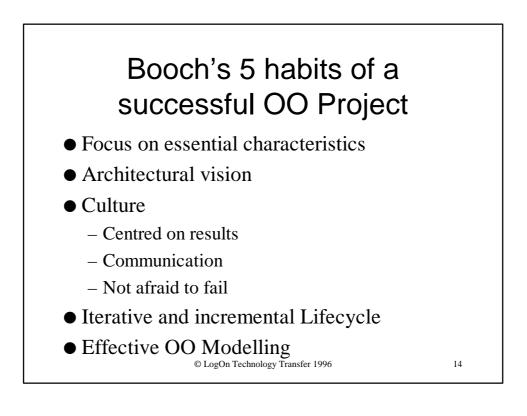
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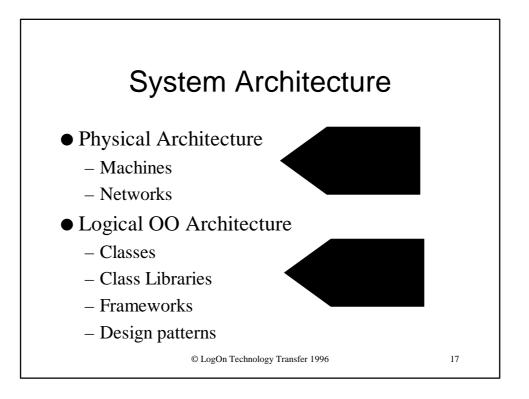
# LogOn's habits for a successful OO Project

- Simplify
- Generalise
- Plan for reuse (if you want it)
- Do the high risk parts first
- Involve end-users as much as possible
- If it's broken, fix it

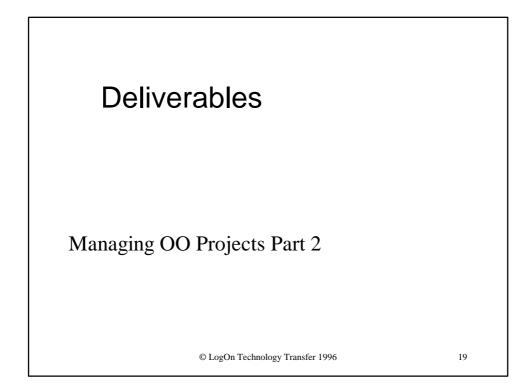
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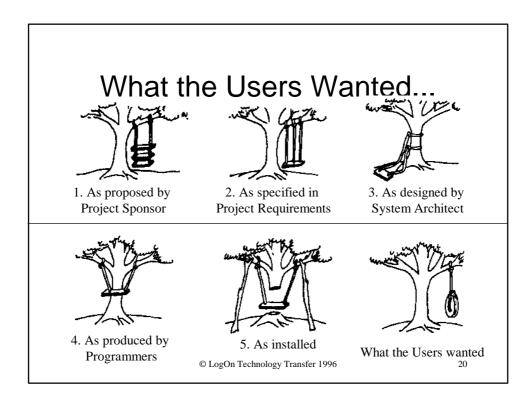
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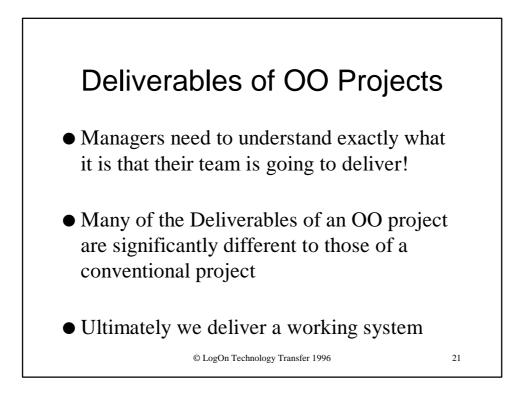
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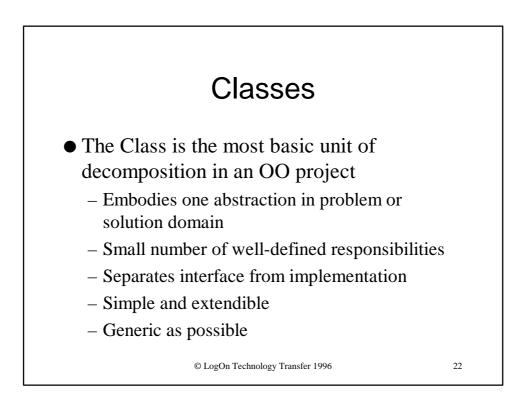


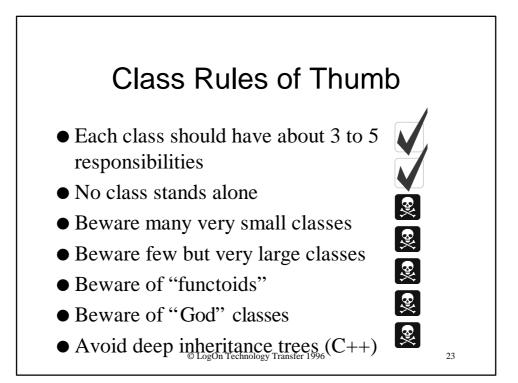


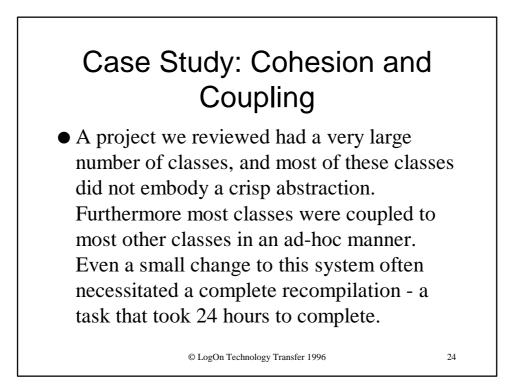












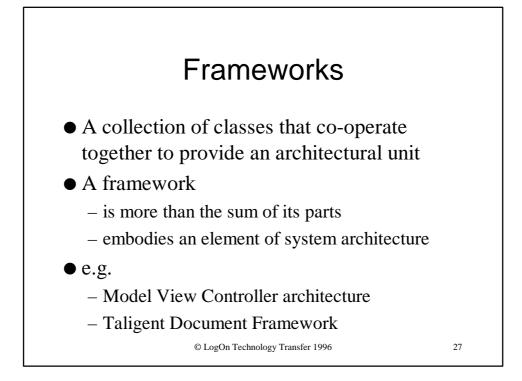
## **Design Patterns**

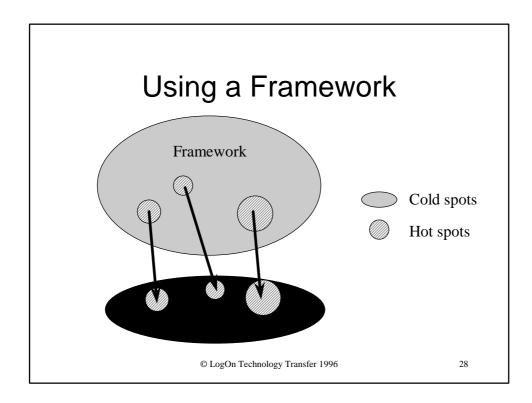
• "Each pattern describes a problem which occurs over and over again in our environment, and then describes the core solution to the problem in such a way that you can use this solution a million times over, without ever doing it the same way twice"[Alexander ], [Gamma 1995]

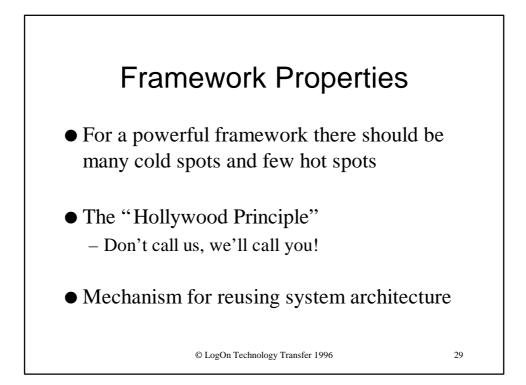
• Microarchitecture

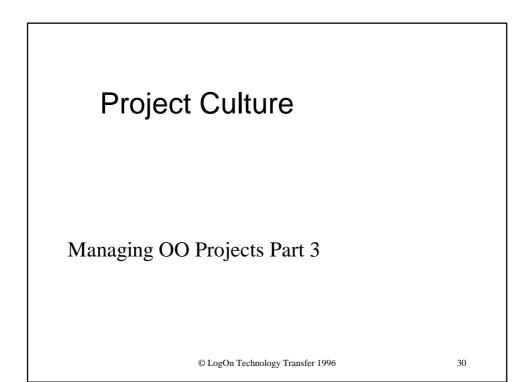
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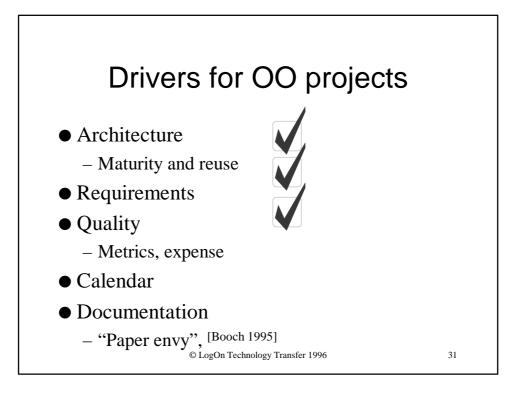
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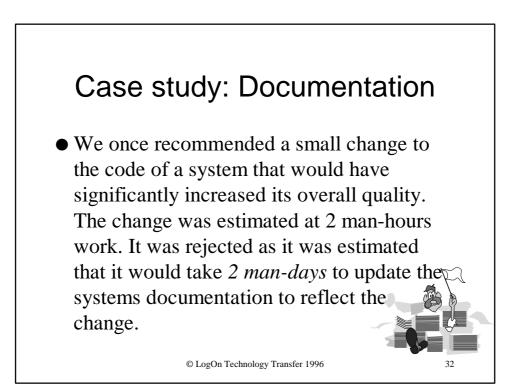








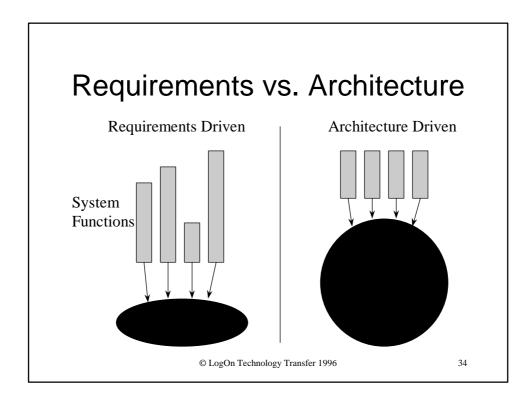


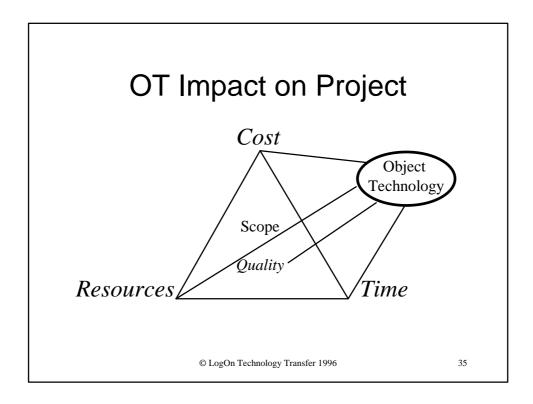


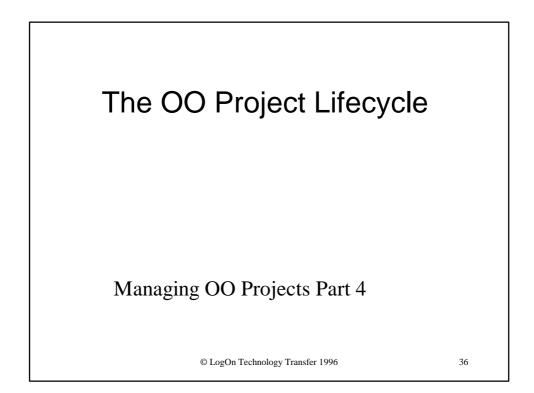
### Case Study: Requirements

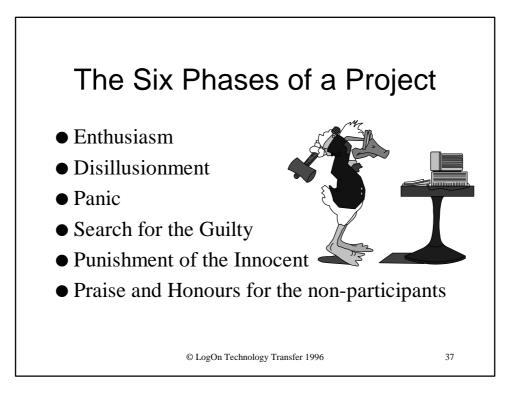
• A project to *display* a chart for planning purposes met all user requirements and was well-received and liked. However, when the users asked for a modification so that they could *edit* the charts, the system architecture could not absorb the change, and the system had to be rewritten.

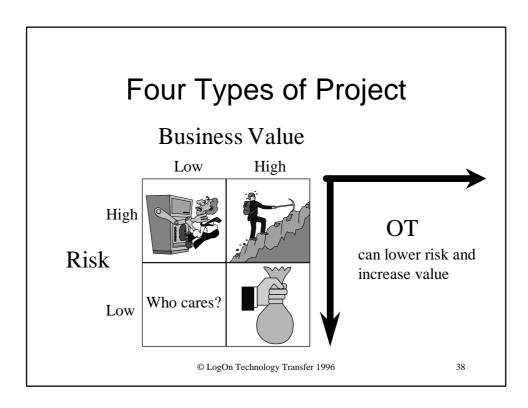
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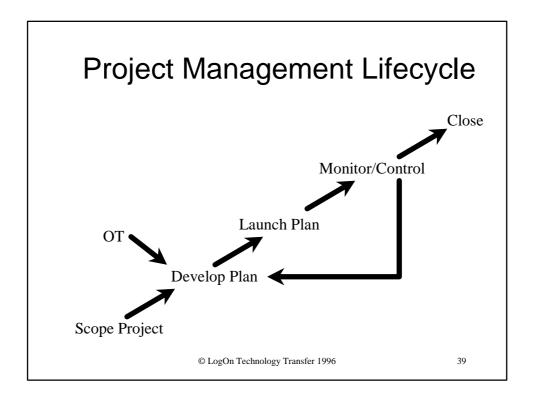


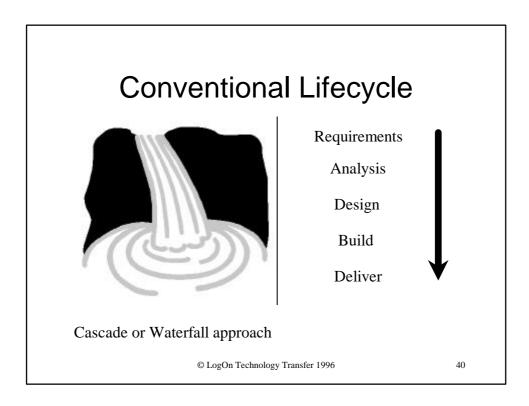








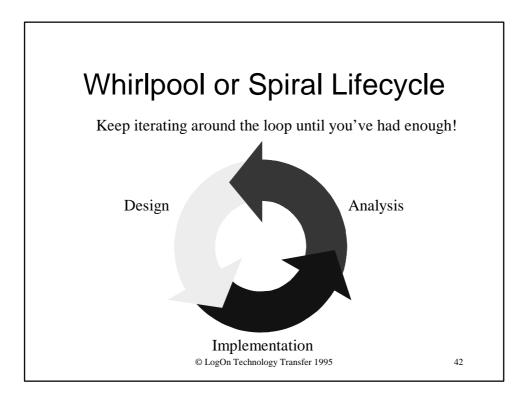


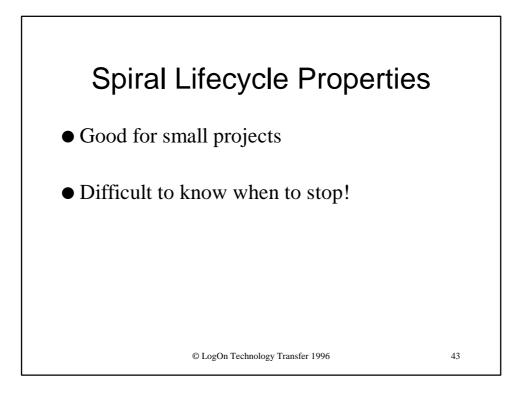


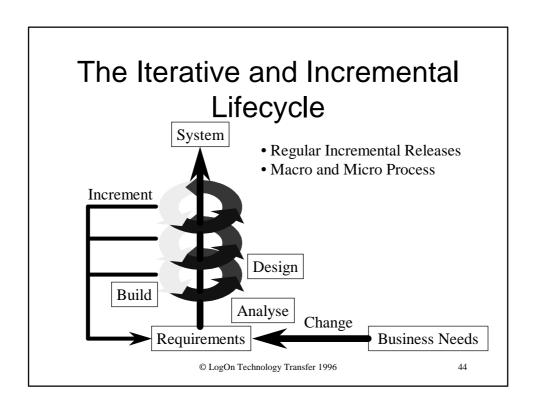


#### • Linear

- Assumes initial requirements are correct, complete and do not change
- Responds poorly to changing business needs
- Big projects mean long time to delivery
  - Can deliver a system no one wants to use
  - Long time before any business advantage
- Only works well when we know exactly what we want and this does not change © LogOn Technology Transfer 1996



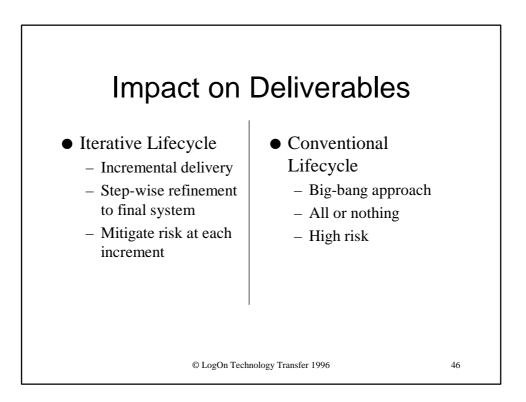


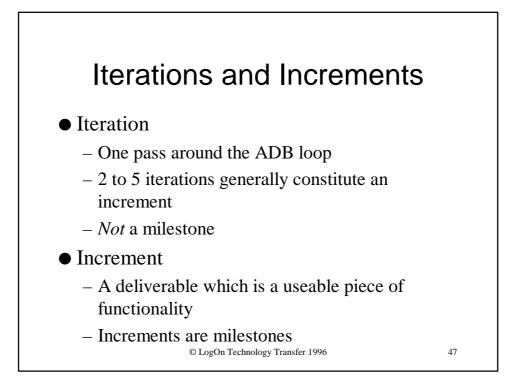


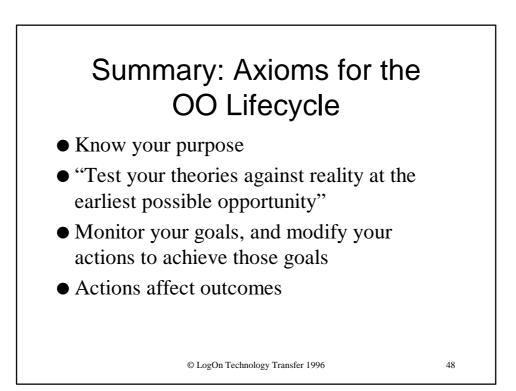
#### Iterative & Incremental Lifecycle Properties

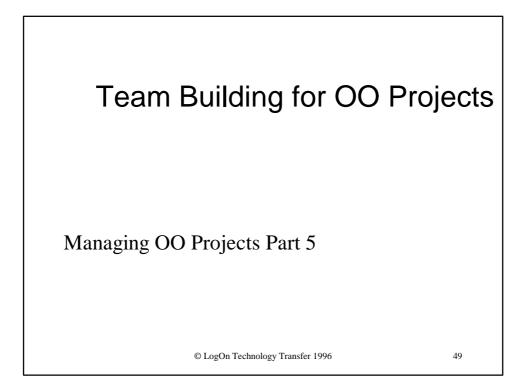
- Responds well to changing business needs
- Easier to monitor and control
- Greater probability that delivered system will match users' requirements
- Can more easily manage user expectations
- "Homes in" on desired outcome
  - Outcomes are often moving targets

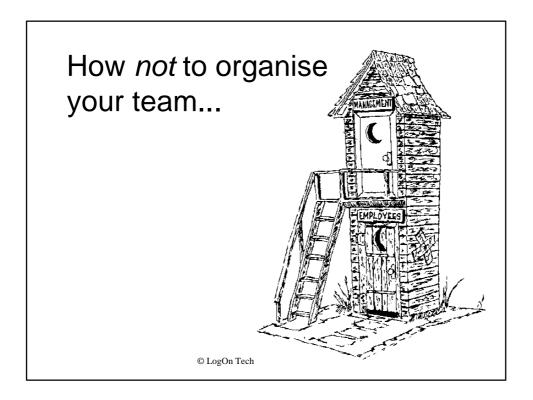
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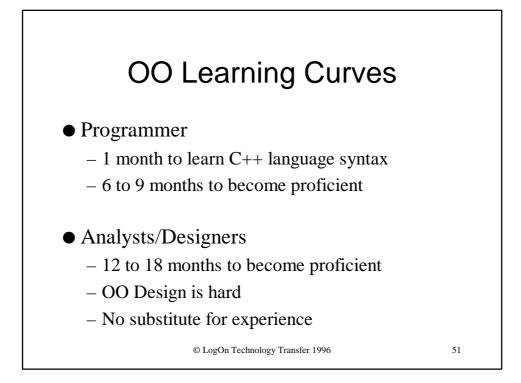


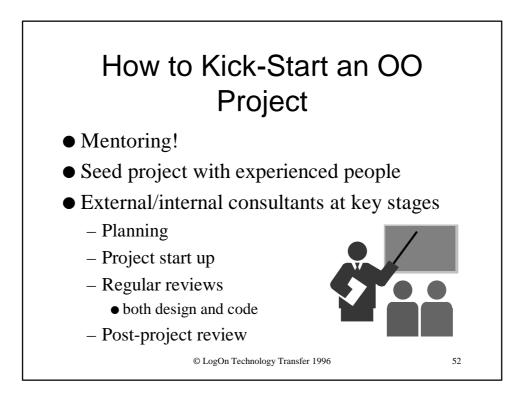


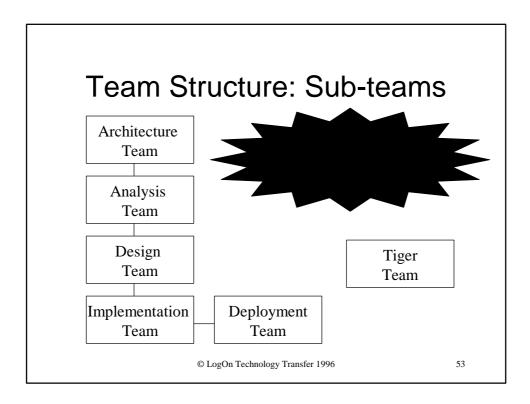


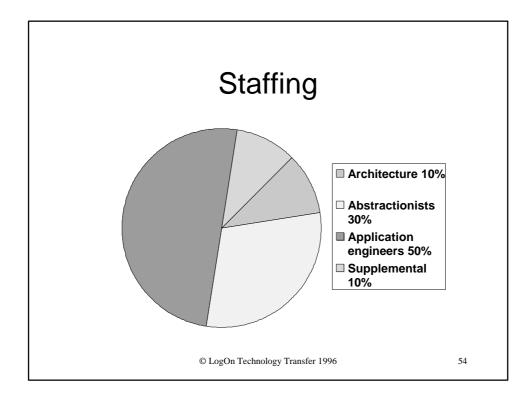


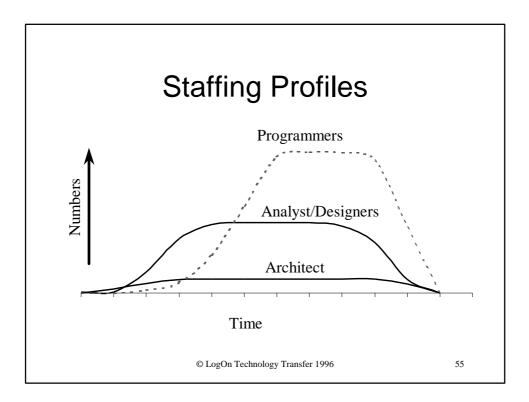


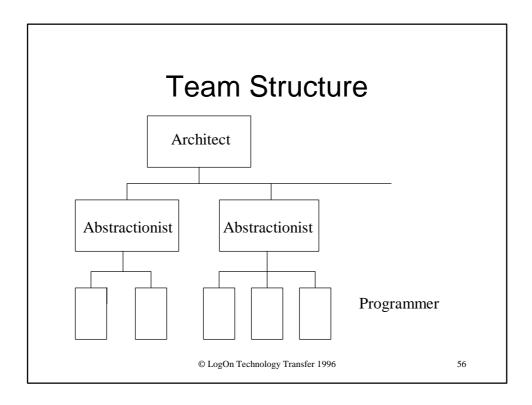


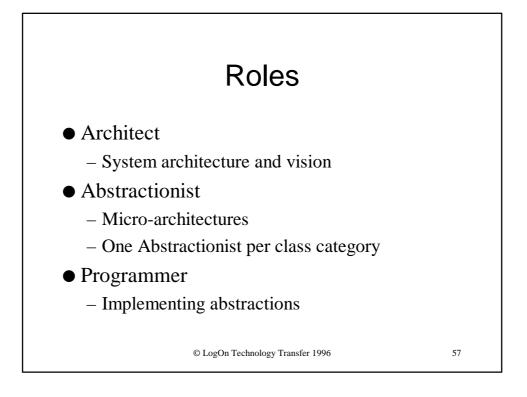


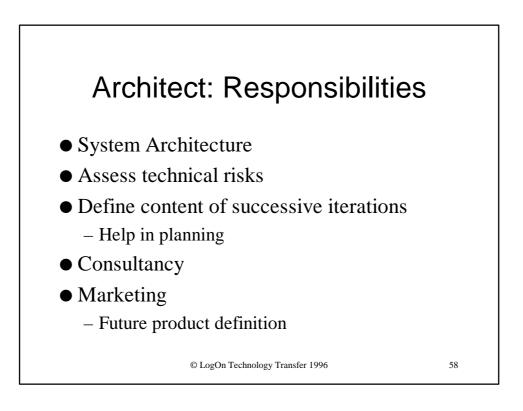


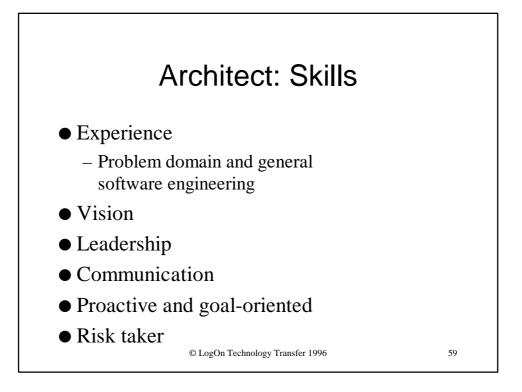


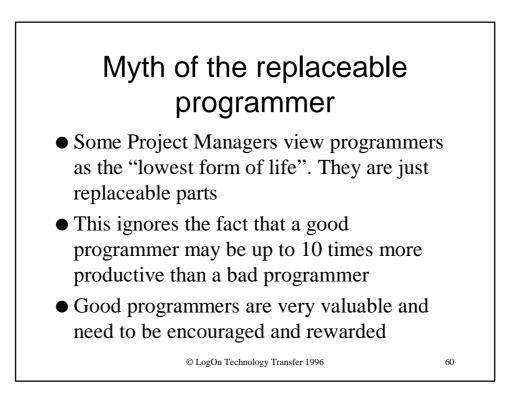


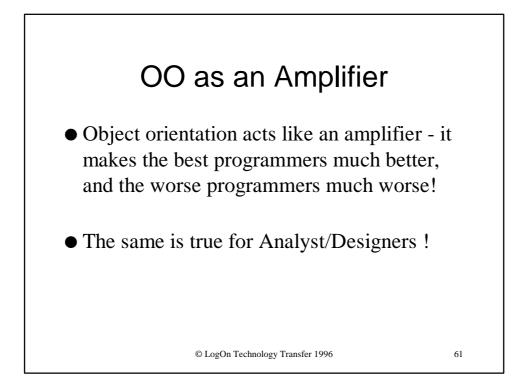


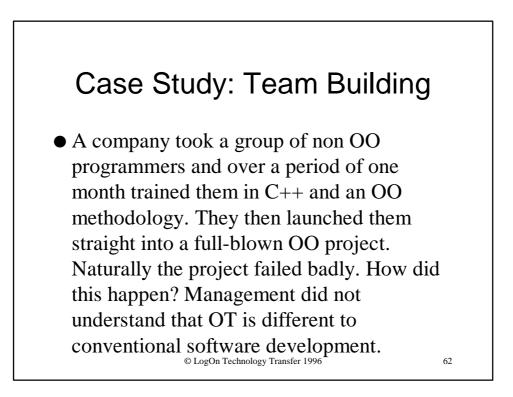


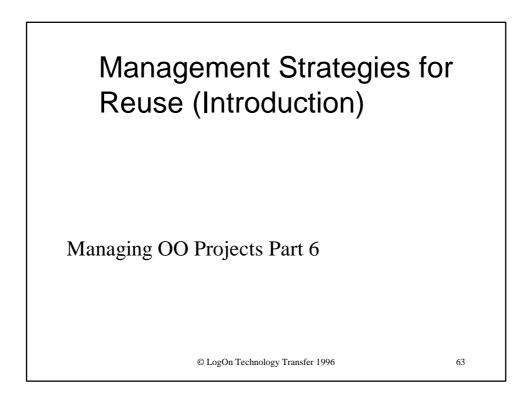


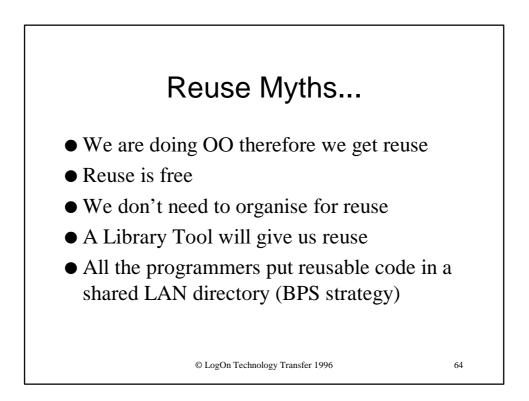


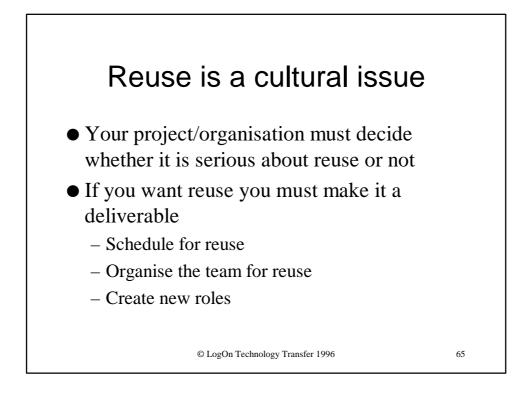


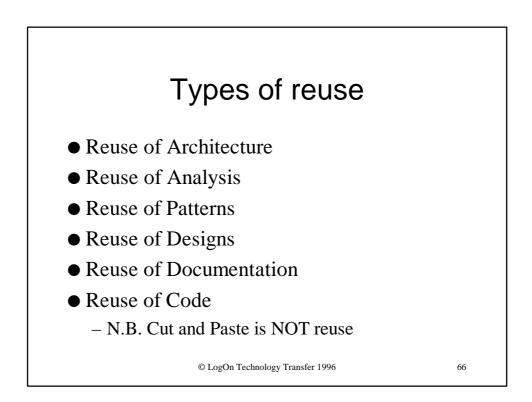


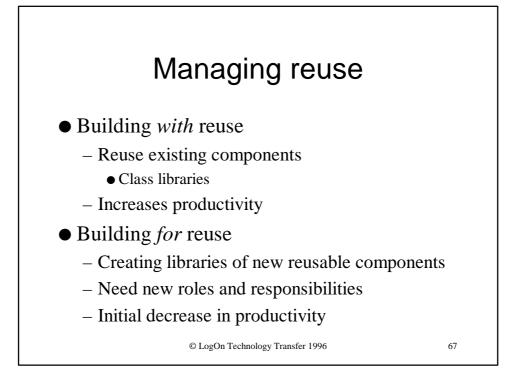


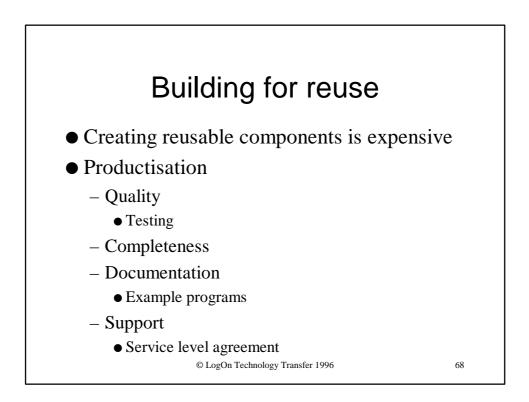


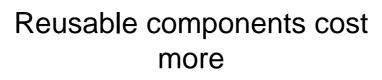












- Need to put in extra effort to make the component generic
- Don't know how or where the component will be used needs to be more complete
- As component may impact important projects it needs thorough testing
- Must be well documented in order to be reusable

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