Data Flow Diagrams

Decomposition and levels of DFDs
Use of DFDs in practice

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Aiding understanding

Single diagram would be complicated, messy, difficult to comprehend

- □ Instead use 'Top-Down' approach, look gradually at each area in greater detail in series of DFDs
- Analogous to using maps.

Break down complex processes into their constituent sub-processes

Produce sets of levelled data flow diagrams, showing the system at different levels

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MANAGEMENT SCHOOL

Context Diagram (Level 0 diagram) Top level of DFDs Area of study shown as single process Defines what is to be studied, what is considered as environment Top level of DFDs Area of study shown as single process Defines what is to be studied, what is considered as environment

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Level 1 Diagram

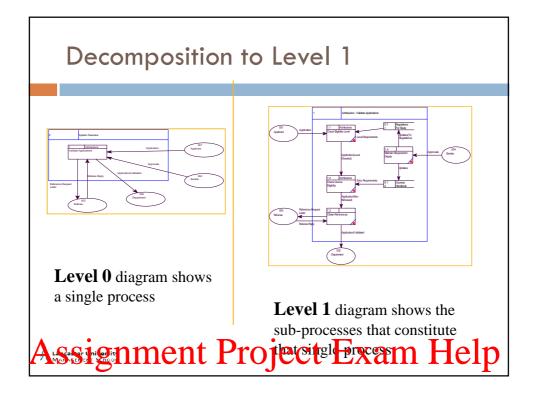
Looks inside the 'black box' of single process in Level 0 diagram

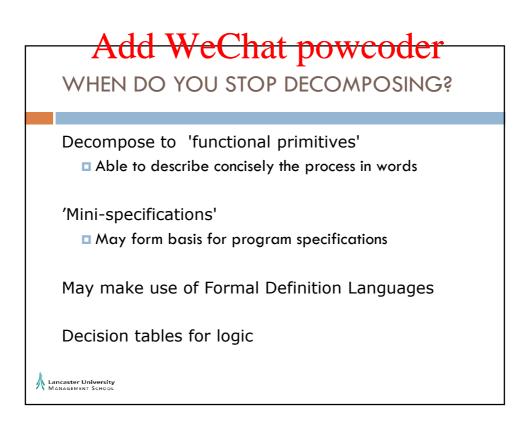
Shows the main processes going on within the system.

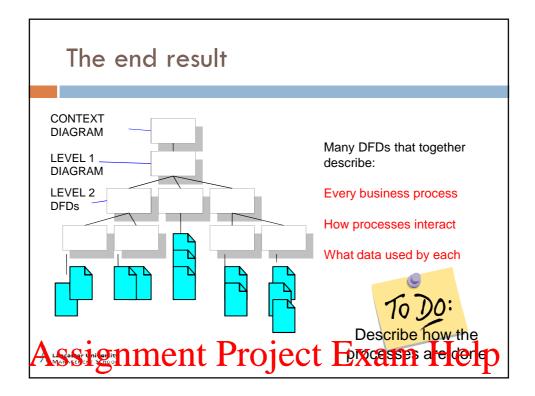
No 'right' way to partition - we choose

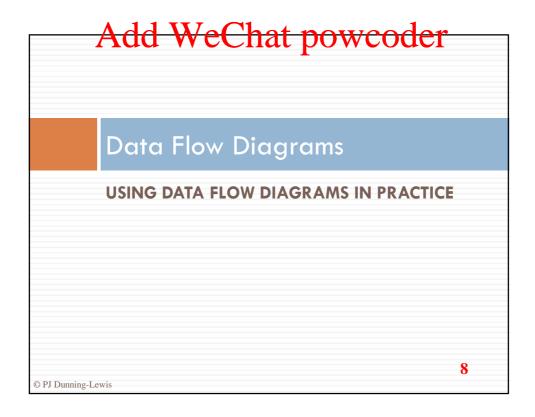
Focus on natural business processes not on the way the organisation presently structured

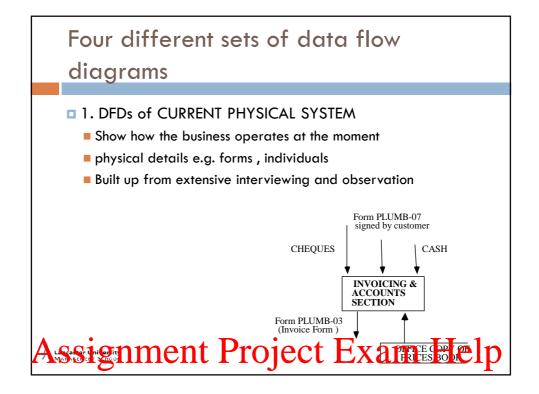


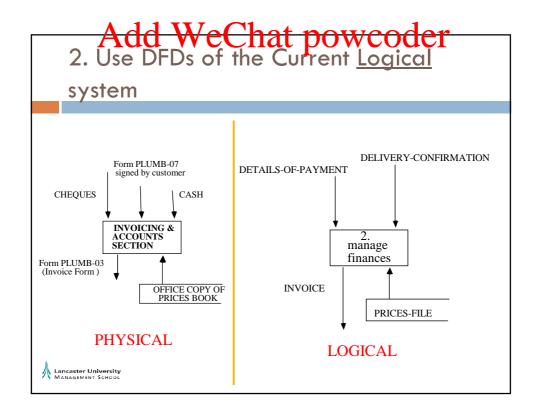








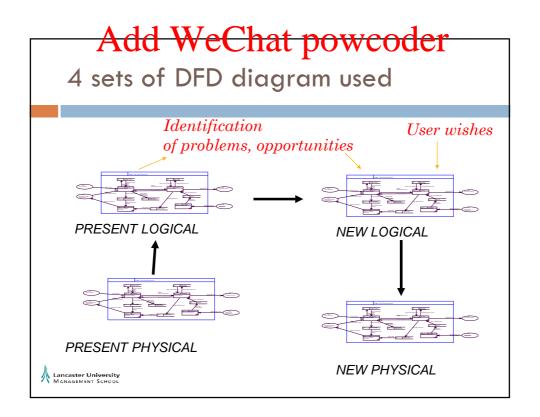




DFDs of NEW LOGICAL and NEW PHYSICAL

- 3. NEW LOGICAL
 - Consider how to improve the business processes
 - Show what the new system should do.
 - Users must be closely involved
- 4. NEW PHYSICAL
 - □ Defines exactly how the system will work
 - □ What will be computerized : Type of equipment :
 - □ Procedures, forms : Staffing etc

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Guidelines

Make sure all processes on particular DFD are at roughly same level of detail

Give processes meaningful, descriptive names

Use verb and noun names for processes

Give data flows clear names

If difficult to name data flow this may be a warning. Are you sure what this is? Is it perhaps 2 data flows?

DFDs should never show mechanics of decisions - only that several outputs may be produced

Check for information traps, update omissions Assignment Project Exam Help

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