

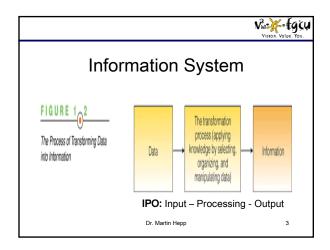


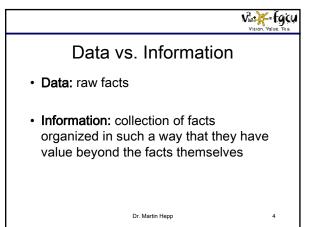
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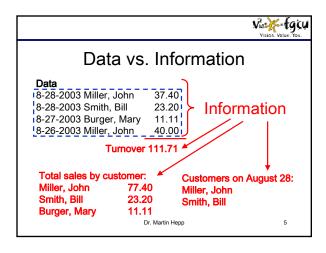
Information System

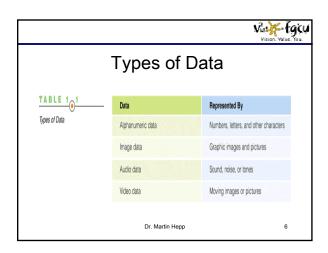
- A set of interrelated components that collect, manipulate, and disseminate data and information, and provide feedback to meet an objective
- Examples: ATMs, airline reservation systems, course reservation systems

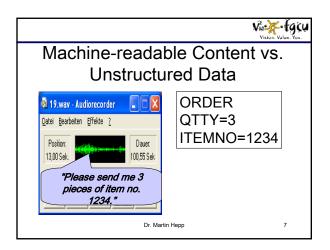
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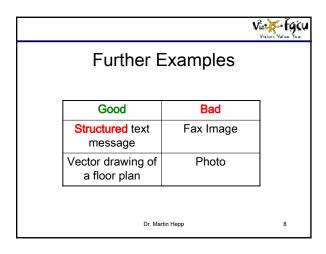


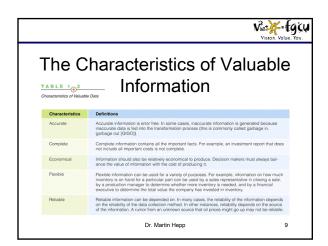


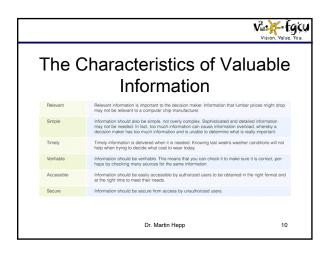


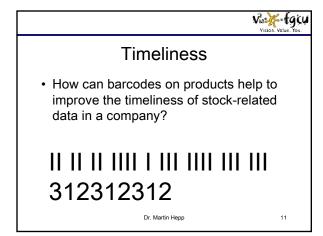


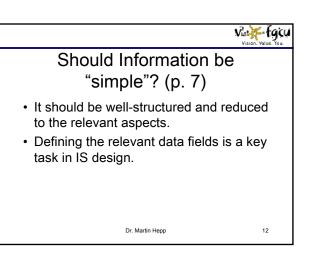














Relevance and Value of Information

 The text says that valuable data is "relevant" and that the value of information depends on the improved decisions they allow. Can we assess those two parameters in advance?

The relevance of data and the value of information are usually not known before you need or apply them.

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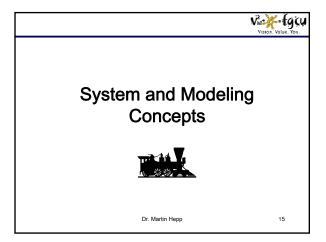


Put In Nonsense, Get Out Chaos

- · Accurate data is crucial.
- False or ambiguous data propagates and puts the integrity of the whole Information System at risk.
- This is an even bigger danger when multiple systems work together and exchange data.

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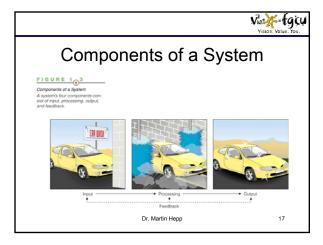




System

- A set of elements or components that interact to accomplish goals
- Input
- · Processing mechanism
- Output
- Feedback
- System boundary

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System Performance and Standards

- · Efficiency: output/input
- Effectiveness: extent to which system attains its goals
- Performance standard: specific objective of a system

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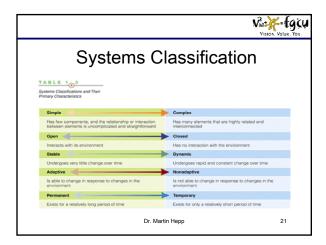
Vision. Value. You.

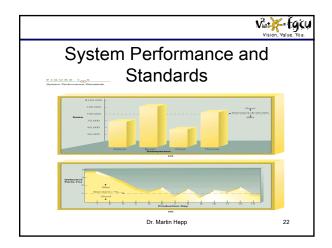
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System Variables and System Parameters

- System variable item controlled by decision-maker
- System parameter value that cannot be controlled

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Modeling a System

- A model is an abstraction that is used to represent reality
 - 4 major types of models
 - A narrative model is based on words
 - Logical, not physical
 - · A physical model is tangible
 - A schematic model is a graphic representation
 Graphs and charts
 - A mathematical model is an arithmetic representation

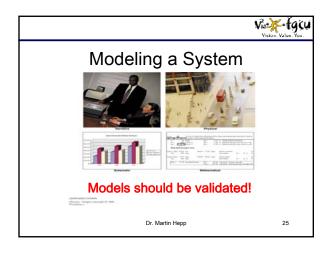
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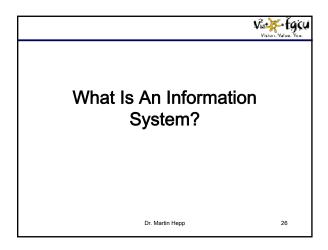


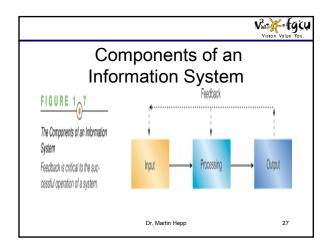
Why makes it sense to use models instead of reality?

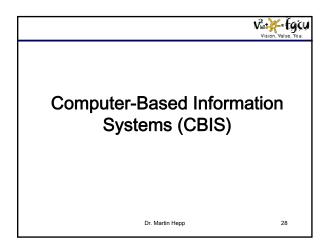
- Reality is complex. It is easier to understand the functionality of a system once it has been reduced to its essential structure.
- Automation implies that we treat a set of individuals or items equally. That means, we must find a form of representation which is suited for each.

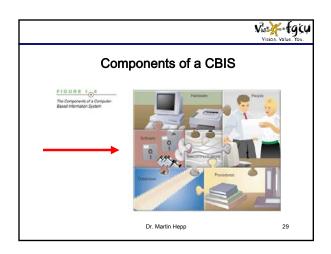
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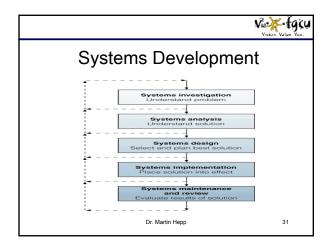
"...changing the way organizations conduct business."

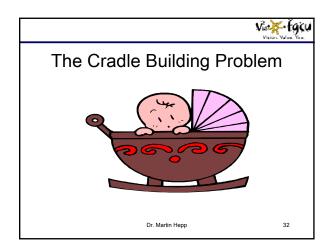
What do you think is the better approach:

a) Write an individual program that exactly represents a company's current processes?

b) Change the company's processes to those already available in standard software?

c) First reengineer all processes and then write respective software.







Summary

- · Data raw facts
- Information data transformed into a meaningful form
- System set of elements that interact to accomplish a goal
- Systems development creating or modifying existing business systems

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Assignment for Next Class

- Read chapter 2 (p. 42 73)
- Self-Assessment test (p. 73)
- Check that you know the key terms listed on p. 74
- Prepare review questions 5, 14, 15, and 16 (p. 74)

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