

Information Systems Analysis & Modeling

Lecture 1: Introduction to Information Systems

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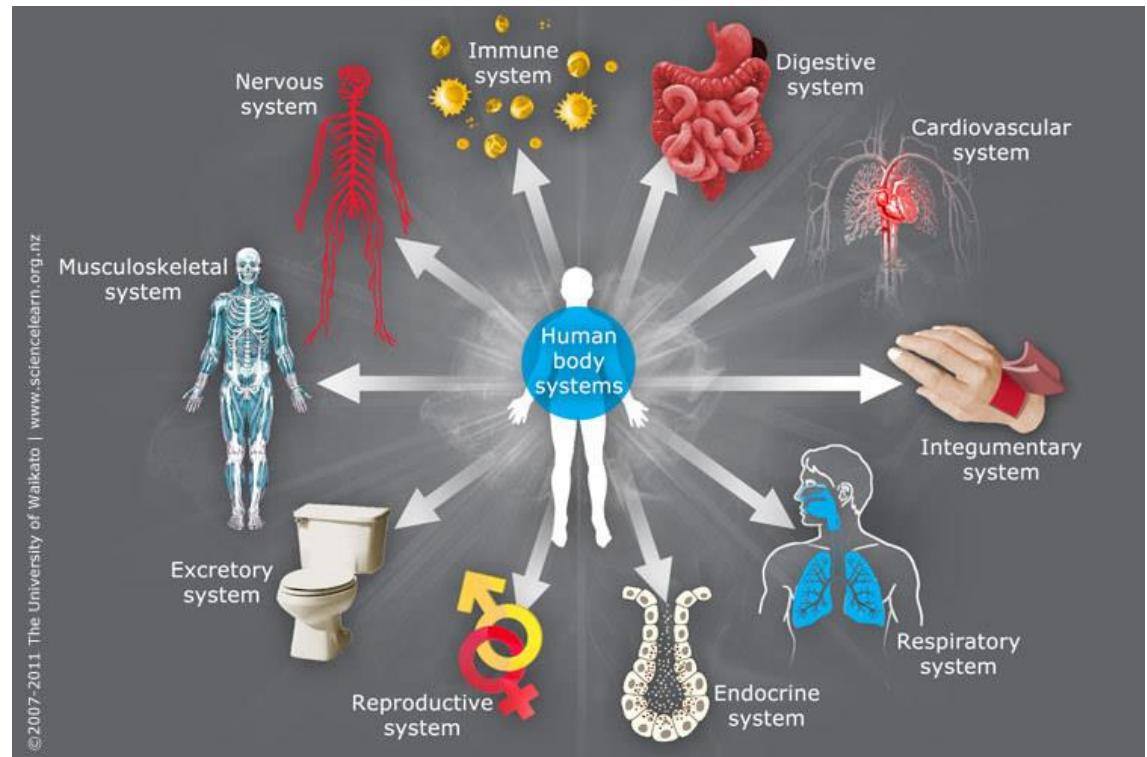
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Why study Information Systems?

- To become an informed user
- The organization you join will undoubtedly be undergoing a digital transformation
 - Vital component of successful businesses

What is a system?

- A system
 - Is a set of interrelated components
 - With a clearly defined boundary
 - Working together to achieve a common set of objectives



What is an Information System?

- An information system (IS) is a set of interrelated components that collects, processes, stores, analyzes and disseminates information for a specific purpose.

Online Schools

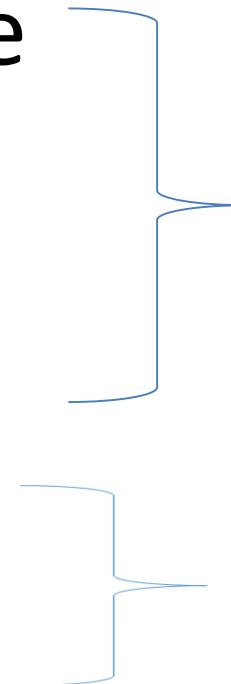


Online
Banking



Information System Components

1. Hardware
2. Software
3. Data
4. People
5. Process



Technology

Roles

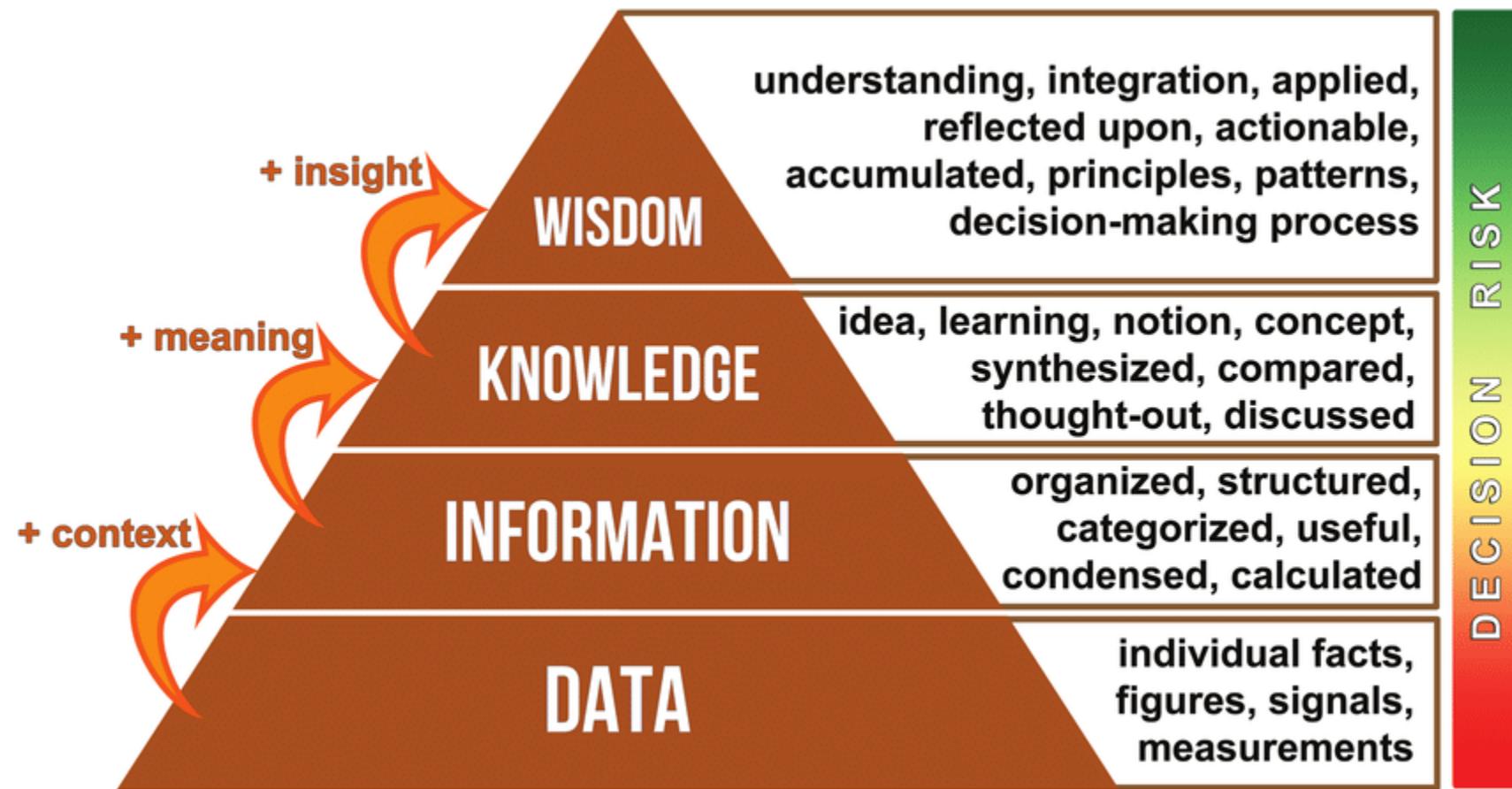
Technology

- Hardware – physical components
- Networks – allows the transmission and sharing of data
- Software – instructions that tell the physical components what to do
 - Operating systems – interacts with the hardware
 - Application software – interacts with the user
- Data – collection of facts

Roles

- People
 - Users
 - Stakeholders
 - They support decision-making, coordination, control, analysis, and visualization in an organization.
- Process: Series of steps to achieve a desired outcome

DIKW hierarchy



Anthony's Triangle

Convenient way to categorize and understand the purpose of different information systems in organizations:



Case study 1

- In a group of 2 or 3 read and discuss the case study and answer the provided questions.