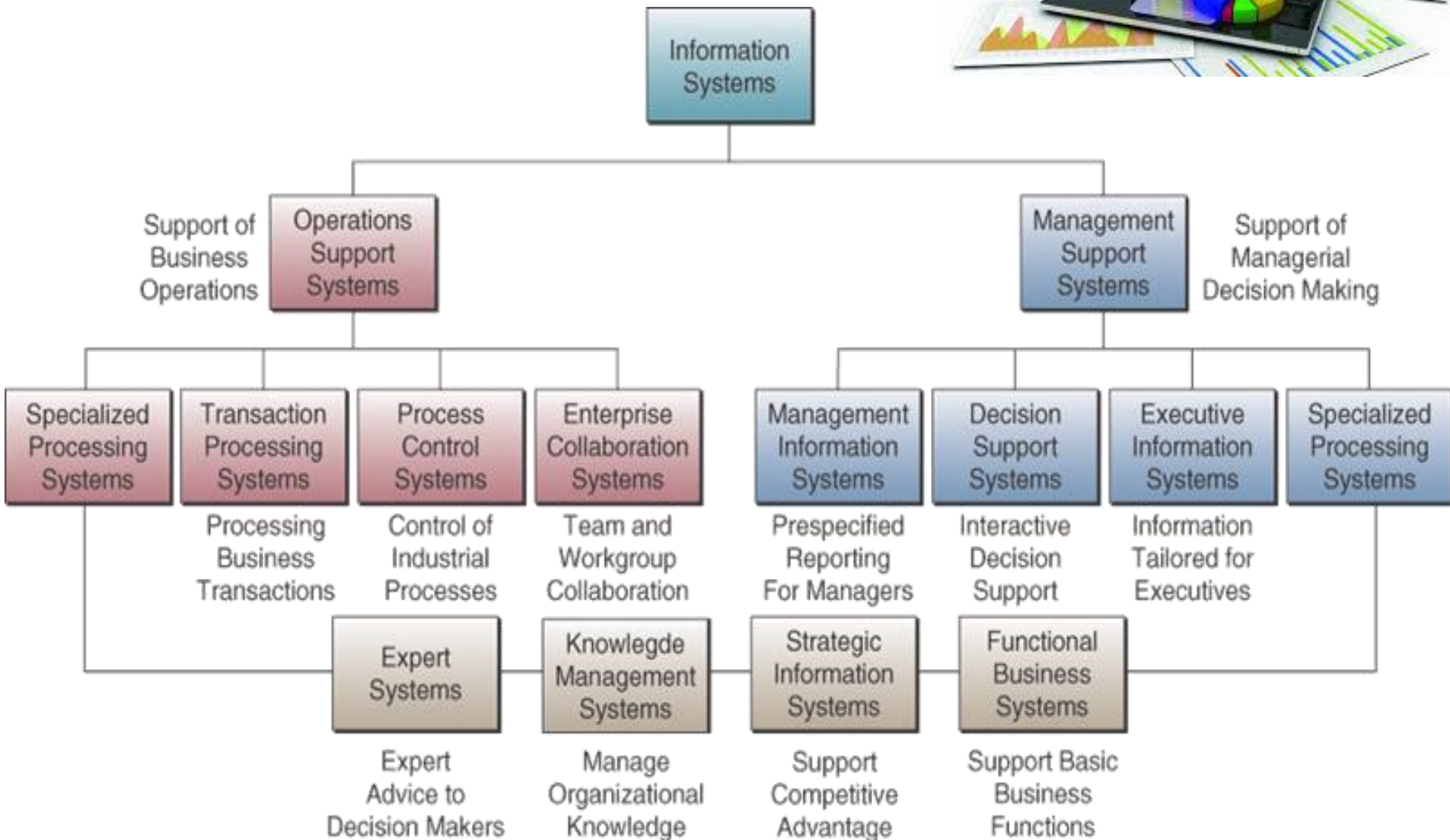




IS Classification

IS classification



OPERATIONS SUPPORT SYSTEM (OSS)

- Suitable for operators.
- Not suitable for managers



OSS role

Increased efficiency

Business transaction process

Industrial process control

Communication & collaboration

Database updating.

Transaction Processing Systems (TPS)

- TPS/ Data processing system is an information system application that captures and process data on bussiness transactions by:

1. batch processing

2. realtime processing,



TPS Example:

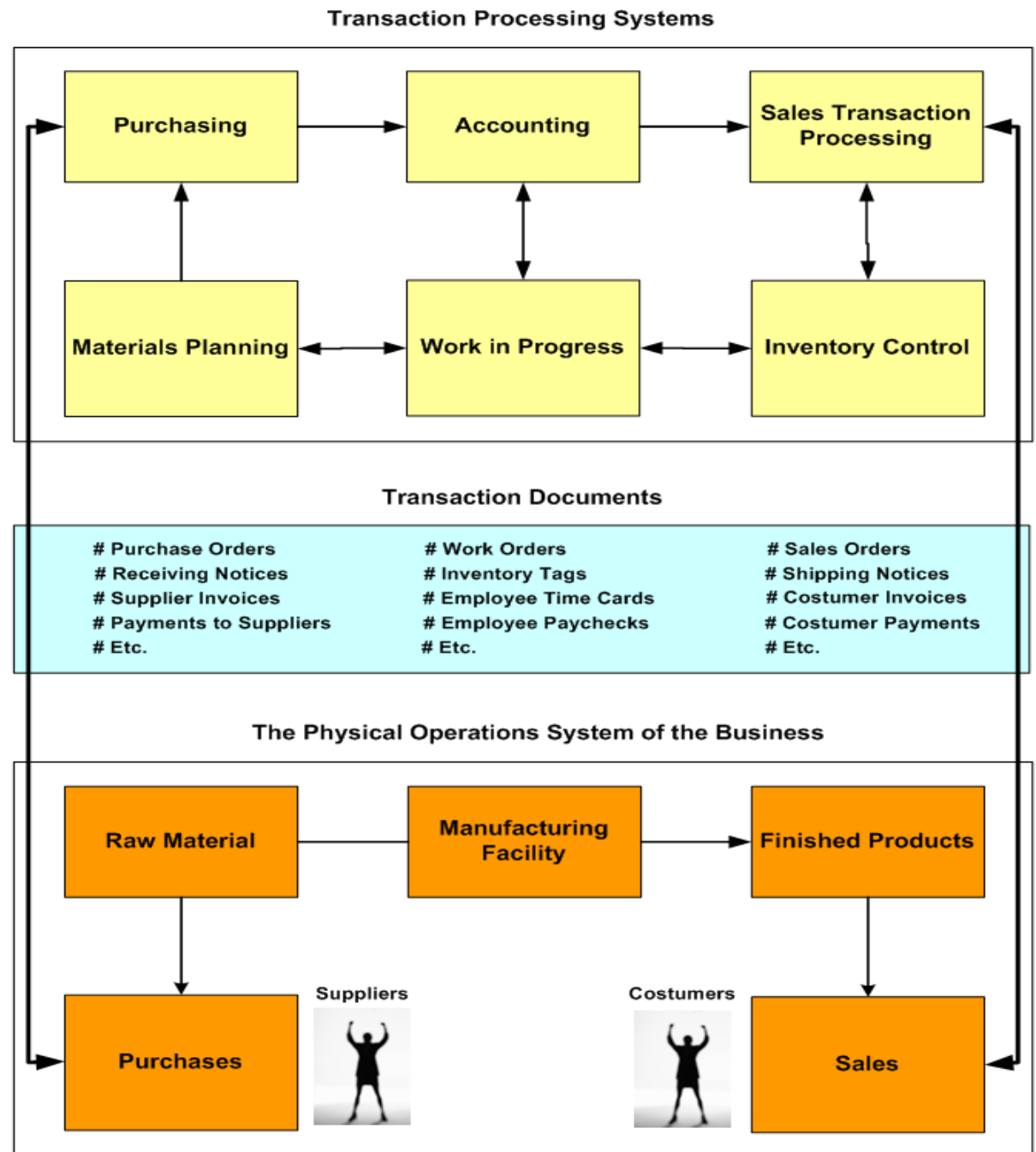


Sales & marketing System:

Production & Fabrication System:

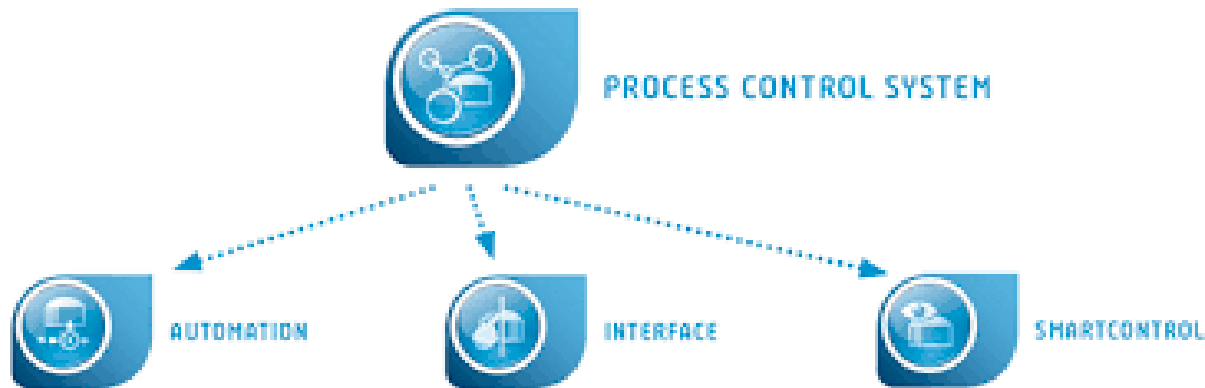
Academic Information System:

The Physycal Operations & TPS



Process Control Systems (PCS)

- **PCS** is a type of IS that performs routine decision making to monitor and control the process automatically



Enterprise Collaboration Systems (ECS)

- ECS is a type of IS that uses variety of information technologies to help people work together
- Ex : *email, discussion forum, video conference, chat, etc*



MANAGERIAL SUPPORT SYSTEM

- Suitable for manager
- able to decision support making



Management Information Systems (MIS)

- MIS provides information products that managers need to support short-term (daily or weekly) decision-making.
- internal + external data



Tipe Laporan MIS



Periodic Scheduled Reports.

- Reports are made in a predetermined format and delivered periodically (eg every day or once a week)

Exception Reports.

- In some cases, reports are only produced when a certain condition occurs.

Demand Reports and Responses.

- Information is available whenever managers want it. In this case the manager does not have to wait for the periodic report to get it.

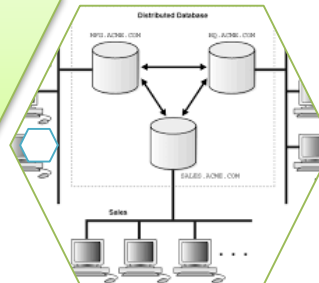
Decision Support Systems (DSS)

- DSS is an interactive, computer-based information system type, using decision models and specialized databases to assist the decision-making process by managers.
- DSS uses analytical modeling, simulation, data retrieval, and the ability to convey information to assist managers.



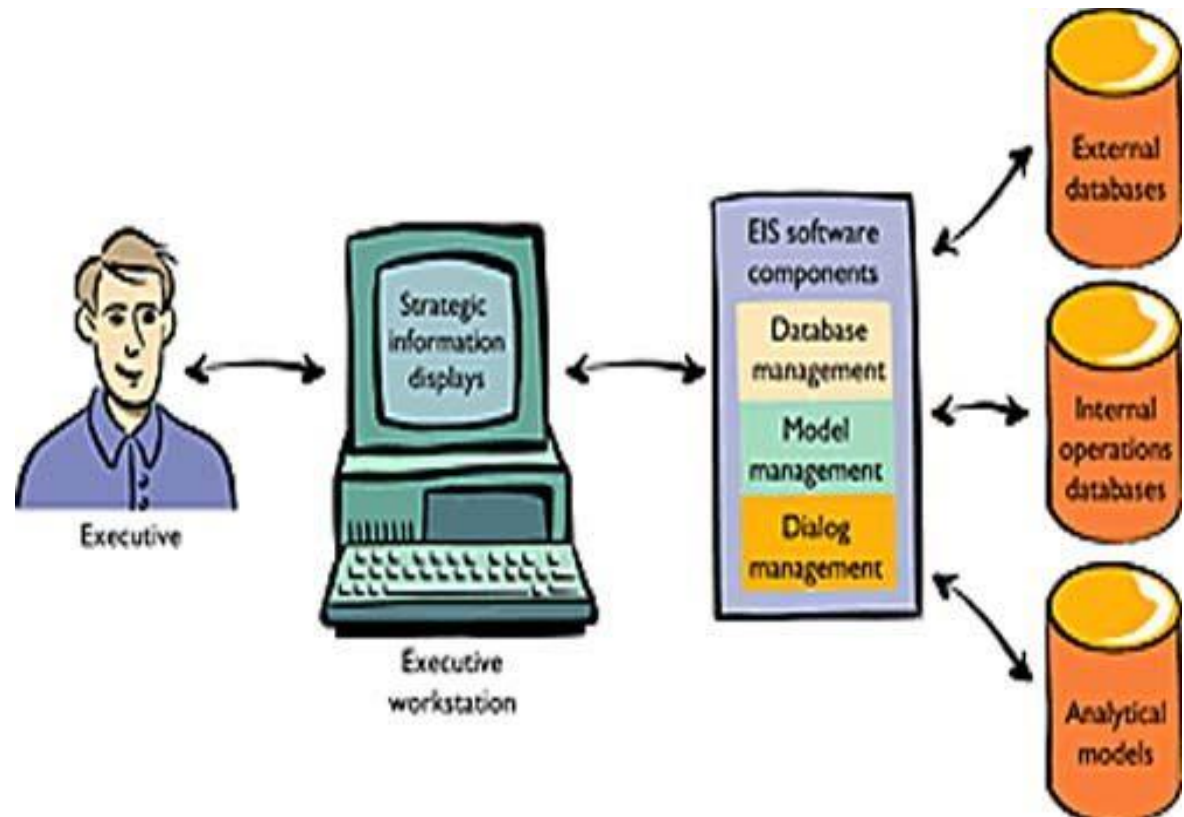
**Data
base**

**Model
base**



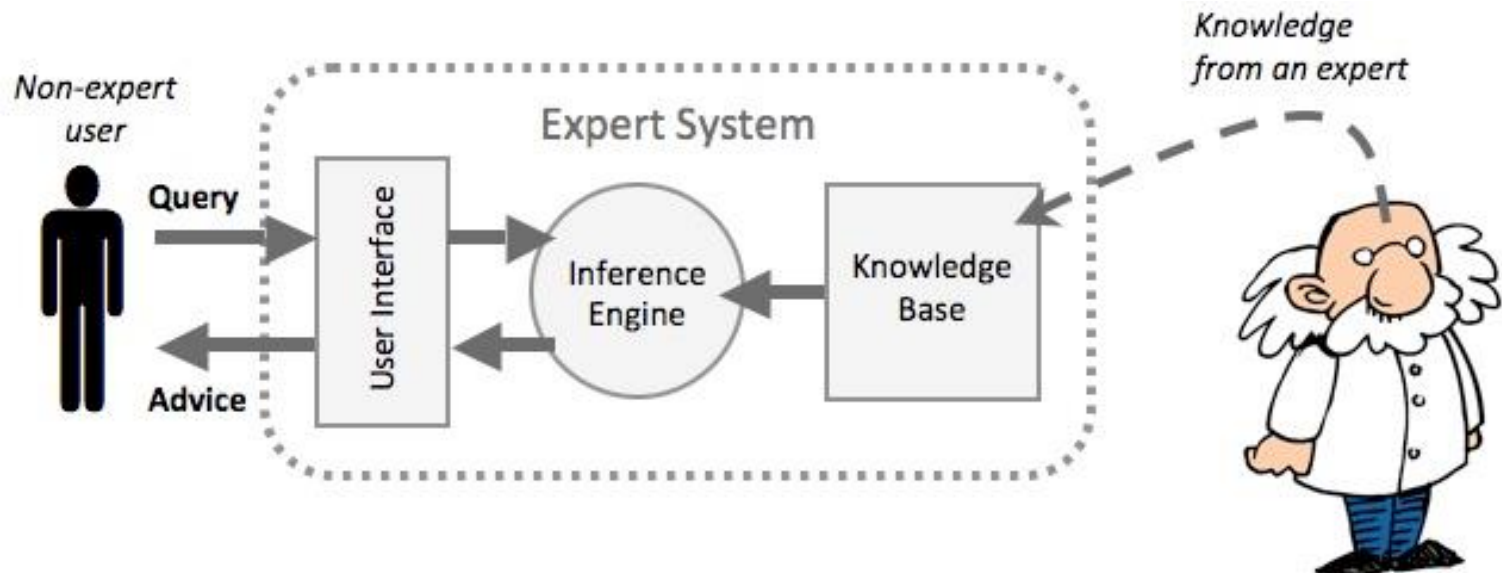
Executive Information Systems (EIS)

- EIS adalah MIS yang dibuat secara khusus untuk memenuhi keinginan manajer level atas (*top manager*) dalam membuat keputusan-keputusan strategis.



Expert System

- The ES / Knowledge-based Information System, using knowledge in a particular field and acting as an expert / consultant for a user.



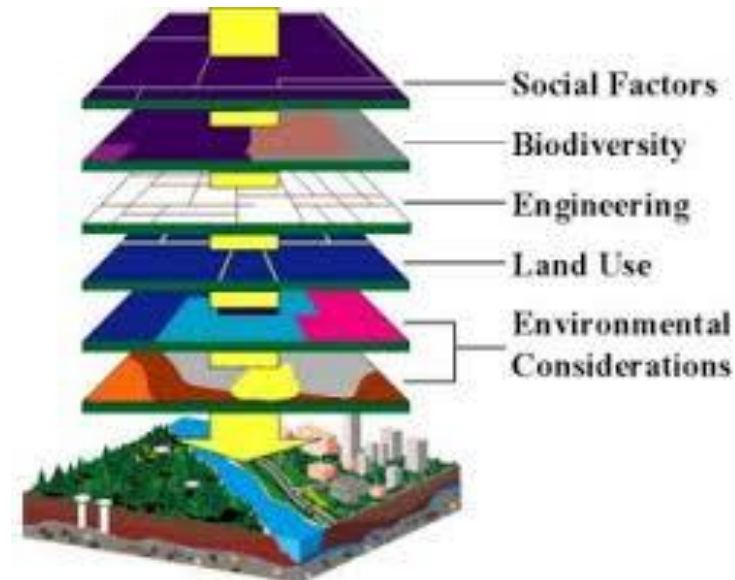
Knowledge Management System

- KMS developed by many companies is based on considerations to manage the knowledge they have.
- KMS helps knowledgeable workers create, organize, and share important business knowledge whenever and wherever.



Geographic Information Systems (GIS)

- GIS is an information system that integrates computer graphics with geographic data with DSS elements.
- This system will create or produce a map display and other graphics to assist decision making related to geographic information.



Classification by scope



Functional business systems

- The system focuses on operational and managerial applications of basic business functions. Ex.: support accounting, finance or marketing

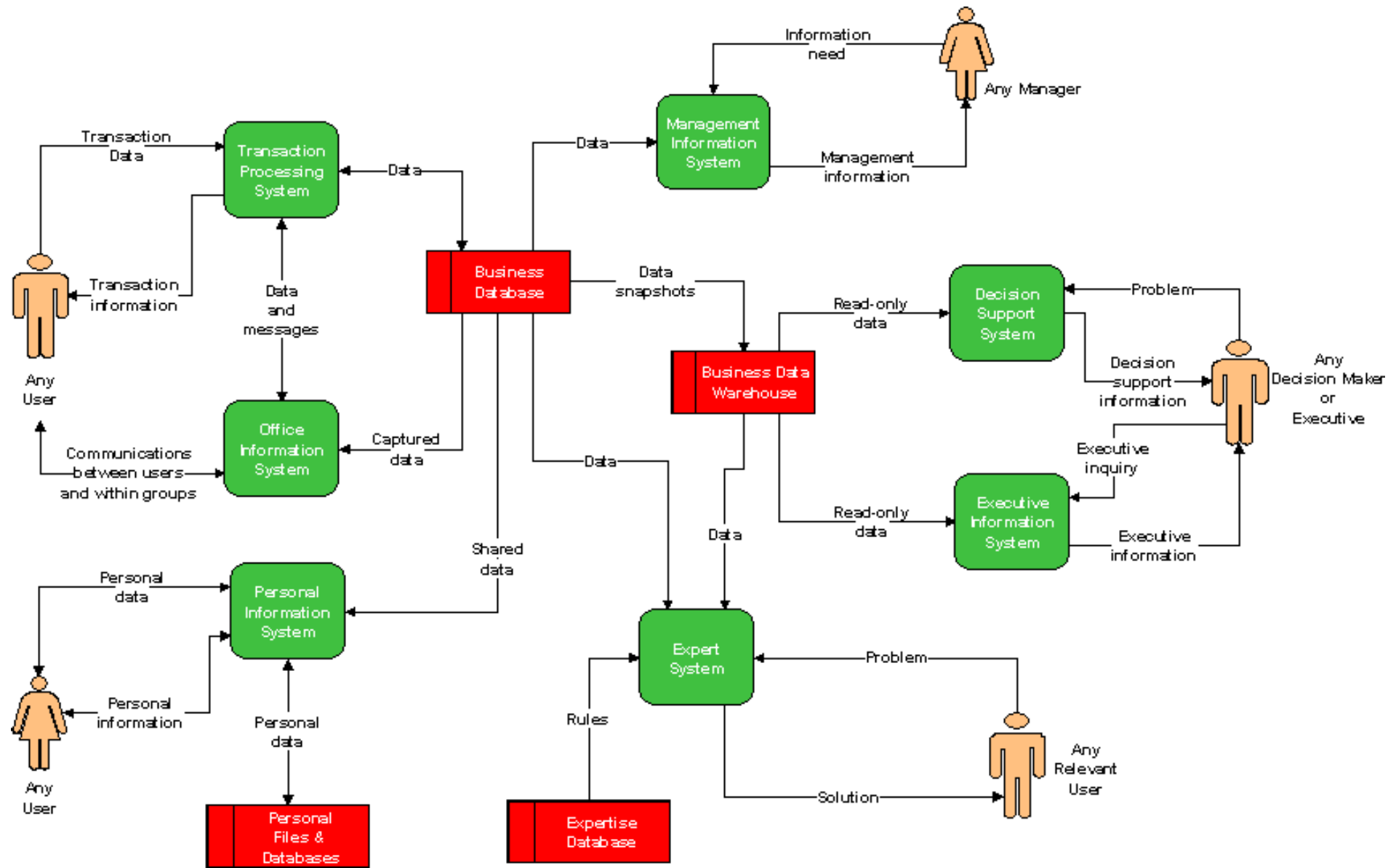
Strategic information systems

- Helps gain strategic advantage through its customers. Example: shipment tracking, e-commerce web system

Cross-functional information systems

- This system is a combination of several types of information systems with the goal of providing support for many functions.

Relationship between information system type





THANK YOU