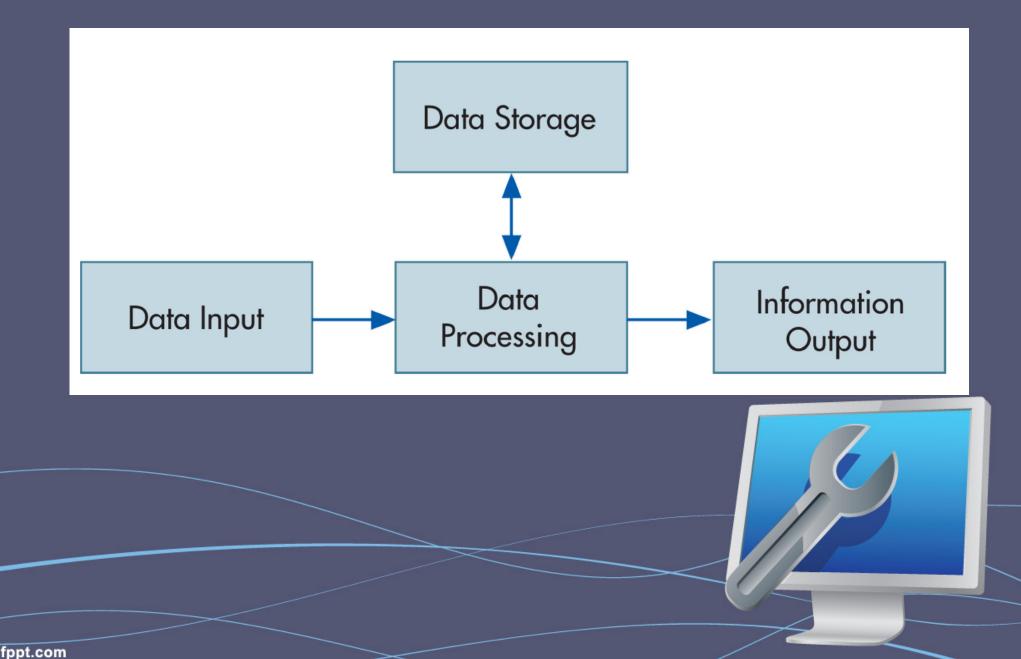
# Accounting Information Systems

Transaction Processing & ERP Systems



# Data Processing Cycle



## Data Input

#### Steps in Processing Input are:

- Capture transaction data triggered by a business activity (event).
- Make sure captured data are accurate and complete.
- Ensure company policies are followed
  - (e.g., approval of transaction).

### Data Capture

- Information collected for an activity includes:
  - Activity of interest (sale)
  - Resources affected (inventory and cash)
  - People who participated in the activity
    - (customer and employee)
- Information comes from source documents.



### Source Documents

- Captures data at the source when the transaction takes place
  - Paper source documents
  - Turnaround documents
  - Source data automation

(captured data from machines, POS scanners at store)

## Data Storage

- Important to understand how data is organized
  - Chart of accounts
    - Coding schemas that are well thought out to anticipate management needs are most efficient and effective
  - Transaction journals (Sales)
  - Subsidiary ledgers (AR)
  - General ledger

Note:

One can trace the path of the transaction (audit trail)



# Coding Techniques

- numbered consecutively to account for all items
  - Prenumber Forms

#### Block

- block of number reserved for specific categories of data
  - Laptops start with number 2

- 2 or more subgroups of digits
  • VIN #

- Letters & # inter-spread
  - Lap300W06



# Computer Based Storage

Data is stored in master files or transaction files

	Custo	omer Number	<b>Customer Name</b>	Address	Credit Limt	Balance	> Attv	ibutes	
		<b>12345</b>	ABC Company	P.O. Box 48	3,000	24,770-	Data	values	
4 enta	125	67890	DEF Company	1233 Penny Lane	45,000	12,412	~		
4 Rea	ras.	12233	XYZ Company	640 Book Bend Road	10,000	26,700	7		
	(	44466	PIP Compnay	777 Money Road	65,000	44,777	7		
				188					
		EOU	n column i	san individua	stield.				
		600	n colomin i	291 Individu	JAGO.				



### Data Processing

#### Four types of processing (CRUD):

- Creating new records (e.g., adding a customer)
- Reading existing data
- Updating previous record or data
- Deleting data



## Data Processing

- Data processing can be
- batch processed
  - (post records at the end of the business day)
- or in real-time
  - (process as it occurs).



# Information Output

The data stored in the database files can be viewed

- Online (soft copy)
- Printed out (hard copy)
  - Document (sales invoice)
  - Report (monthly sales report)
  - Query
    - question for specific information
    - Which division had the most sales?



# Enterprise Resource Planning (ERP) Systems

- Integrates activities from the entire organization
  - Revenue Cycle
  - Expenditure Cycle
  - Production Cycle
  - H/R Payroll Cycle
  - General Ledger & Reporting



# Advantages & Disadvantages of ERP Systems

#### **Advantages**

- Integrated
   enterprise-wide
   single view of data
- Streamlines flow of information
- Data captured once
- Greater visibility

#### Disadvantages

- Costly
- Time to implement
- Customizing or standardizing a business process



# Advantages & Disadvantages of ERP Systems

### Advantages

- Monitoring capabilities for management
- Improve access & control of data through security settings
- Standardization
   procedures & Repts

#### Disadvantages

- User resistance
- Complexity



# Advantages & Disadvantages of ERP Systems

### Advantages

Disadvantages

- Improves customer service
- Increases productivity through automation

