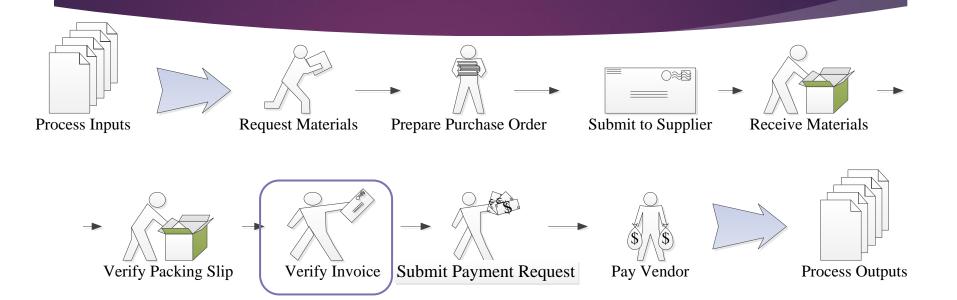
#### Chapter 11

► Business Processes

#### What is a Process?

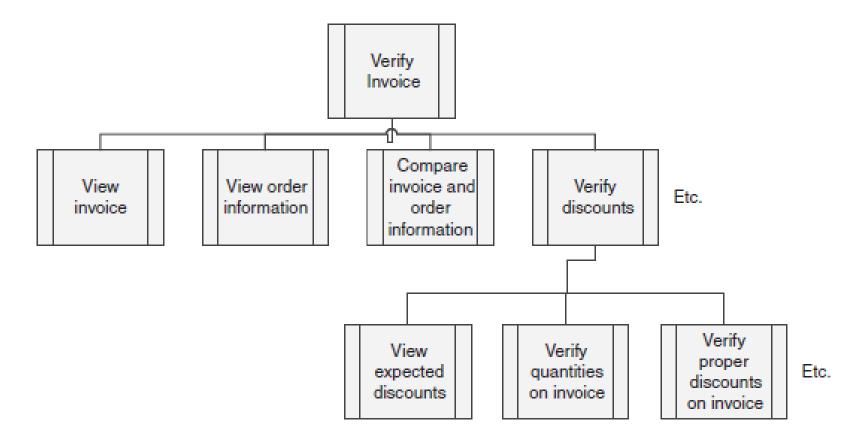
Series of steps or tasks required to achieve a specific goal



#### A process may

- extend across many organization boundaries
- involve a large number of individuals
- require many decisions and actions along the way

### Sub-processes



#### Technology and Processes

Technologies play an ever increasing role in how business processes are performed and modified.

Technology can also be a barrier or constraint to business process improvement.

# Process Improvement: Business Process Reengineering

- Business processes are inherently cross-functional
- ► BPR seeks to break down organizational silos by redesigning business processes



Public use: Pixabay.com

#### Improving Processes

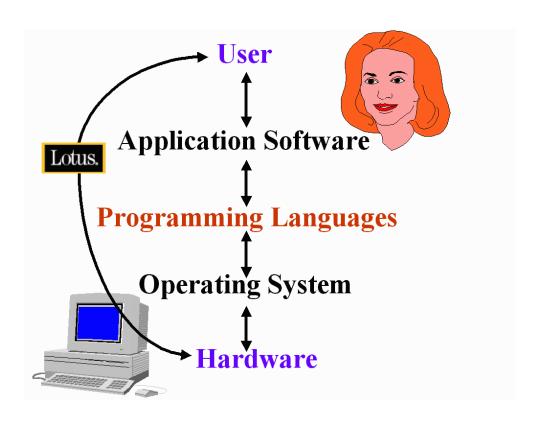
- What are our key business processes?
- Do we have to execute each process?
- How can we use information technology to perform these processes in better ways?
- ► What are the likely impacts of the business process redesign?

## Software Appendix B

#### What is software?

- Groups of Programs
  - Programs are a series of instructions that tell the computer what to do
- For Example: in Excel
  - An instruction would be:
  - Add the contents from Cell B17 to B24
  - ► Instruction:=SUM(B17:B24)

#### Software types:



### System/Operating Software

Set of programs the coordinates the activities of various hardware components



#### Operating Systems: 3 main functions

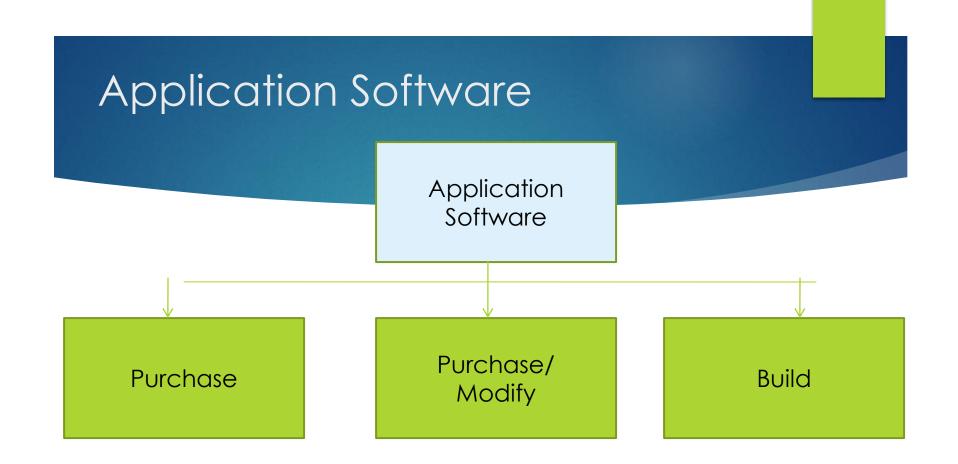
Feature	Nickname	Purpose
Manage Hardware	Traffic Cop	Directs the flow of data between hardware components such as RAM, disk drives, CD's, CPU, and Printers Also provides how programs are executed and some limited security Attempts to maximize system resource utilization
User Interface GUI (graphic user interface)	Icons	Provides a common feel and look to the tool bars lines for all the applications.  Makes it easier for a user to learn how to use the software
Storage / Retrieval	Librarian	Provides a standard format to store and retrieve the data on storage devices (RAM, disk drives etc)

### Operating Systems / desktops

Operating Family	Interface	Best Tasks	Market Share
Windows 10 Windows Family	GUI (graphic)	Business Applications Numerical Applications Basic Communications	77% of business & home
Mac Family	GUI	Graphical Applications Multi media Design/Creative arts	17%
Linux / Unix	Command (unless you purchase)	Web Servers Computer Geeks	2%+

# Phone Operating Systems Based on Shipments (2021 & 2022)

Operating Family	Market Share (Worldwide)	Market Share (US)
iOS / Apple	28%	51%
Samsung / Android	28%	27%
Others	44%	22%



Payroll Program?

Harris Teeter Customer Tracking

#### Personal Productivity Software

#### Ranked by Usage

Browsers (Chrome / Edge / Safari / Firefox)

Word Processors (Word, Google Docs, Pages)

Spreadsheet (Excel, Google Docs, Numbers)

Presentation (PowerPoint)

Database (Access, msSQL, ProGres)

#### Programming Languages

- HTML 5 + CSS 3 (Web Languages)
- Java
- Phyton
- ► C#
- PHP
- C++
- Permit the application developer more control and customization