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# Use of ERP in Education and Role of Oracle E-Business Suite

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PREPARED BY: OHM TRIVEDI (12BCE054)

MENTORED BY: PROF. VISHAL PARIKH

# What is ERP?

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**Enterprise Resource Planning (ERP)** is an integrated software system that **manages the mainstream operations** of an organization.

ERP is often defined as **standardized packaged software** designed to **integrate the entire value chain** in the organization.

What is different about ERP systems, is that they **integrate across functions** to create a **single, unified system** rather than a group of separate, insular applications.



Basically, ERP is a MASSIVE CLOUD having ANYTHING  
you can THINK OF!

# What does ERP consists of?

Since the first ERP system was designed and built **over 25 years ago**, ERP software solutions have evolved to where **most business activities can be captured in a single system**.





# Why ~~would~~ should an organization opt for an ERP system?

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The consolidation of data resulting from ERP use creates many organizational benefits:

- ✓ Business integration and automated data update
- ✓ Linkage between all core business processes and easy flow of integration
- ✓ Flexibility in business operations and more agility to the company
- ✓ Better analysis and planning capabilities
- ✓ Critical decision-making
- ✓ Competitive advantage
- ✓ Use of latest technologies
- ✓ Ability to track and provide Average Costing in production, thus allowing firms to move away from the inefficient and inaccurate 'Standard Cost' method of production costing.

Where to find an ERP system?



**EPICOR.**

 **SYSPRO™**

 Microsoft Dynamics

 **PLEX**  
ONLINE

*Consona.*

**ORACLE®**

**sage**  
software

**SAP**®

**IFS**

**INFOR™**

PROPRIETARY  
ERPs

OPEN  
SOURCE  
ERPs

**xTuple®**  
WORLD'S #1 OPEN SOURCE ERP



**erpnext**



**opentaps**

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Integration at any scale

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**LEDGER  
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 **vtiger**

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# How can one choose an ERP system? – The ‘Selection’ Criteria's

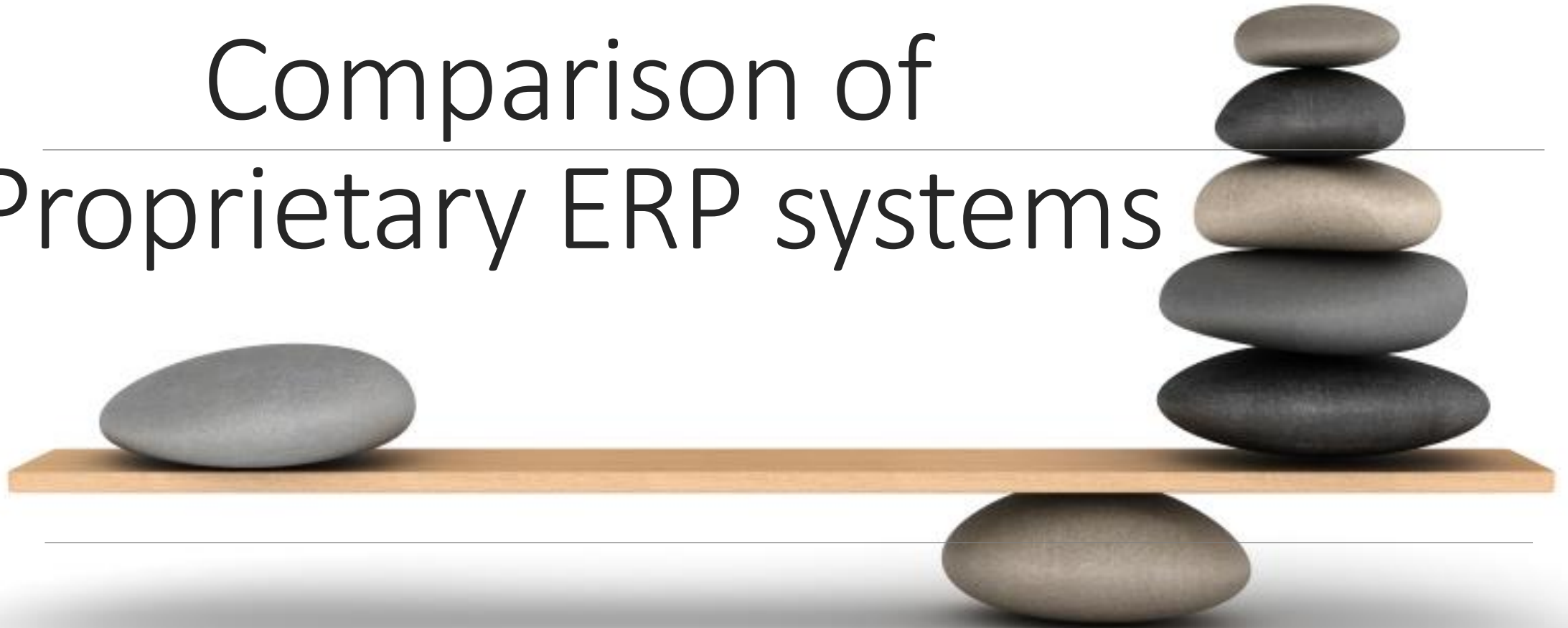
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- |                                    |                         |
|------------------------------------|-------------------------|
| 1. Ease or Speed of Implementation | 10. Vendor Reputation   |
| 2. Price                           | 11. Flexibility         |
| 3. Vendor Support                  | 12. Training            |
| 4. Reliability                     | 13. Information Needs   |
| 5. Ease of Use                     | 14. Latest Technologies |
| 6. Customization/Parametrization   | 15. Scalability         |
| 7. Integration                     | 16. Upgrades            |
| 8. Organizational Fit              | 17. Modularity          |
| 9. Functionality                   |                         |





# Comparison of Proprietary ERP systems





- ✓ **Largest** share of market
- ✓ **Highest** short-listing rate
- ✓ **Highest** selection rate when short-listed
- ✓ **Least delta** between planned and actual implementation duration
- ✓ Highest rate of operational disruption at go-live
- ✓ Highest failure rate
- ✓ Lowest success rate

The Oracle logo is shown in white on a red rectangular background. It consists of the word 'ORACLE' in a bold, sans-serif font, followed by a registered trademark symbol (®).

- ✓ **Highest** Success Rate
- ✓ **Shortest** Payback Period
- ✓ **Least delta** between projected and actual project cost
- ✓ **Lowest rate** of operational disruption at go-live
- ✓ Largest delta between planned and actual implementation duration



- ✓ **Shortest** length of operational disruption
- ✓ **Shortest** implementation duration
- ✓ **Highest** percentage of respondents achieving greater than 40% functionality
- ✓ Smallest share of market
- ✓ Lowest short-listing rate
- ✓ Longest payback period
- ✓ Largest delta between planned and actual implementation project cost



# Comparison of Open Source ERP systems





Open source code

No license charge

Scalability

Dynamic development

- × Inadequate support system and documentation
- × Frequent system crashes
- × No admin privileges

- ✓ High Compatibility
- ✓ Pre-built Functions

- × Professional assistance needed
- × Standardized features

- ✓ Innovative Design
- ✓ Technology Advantages – very recent and modern ERP solution

# Oracle E-Business Suite



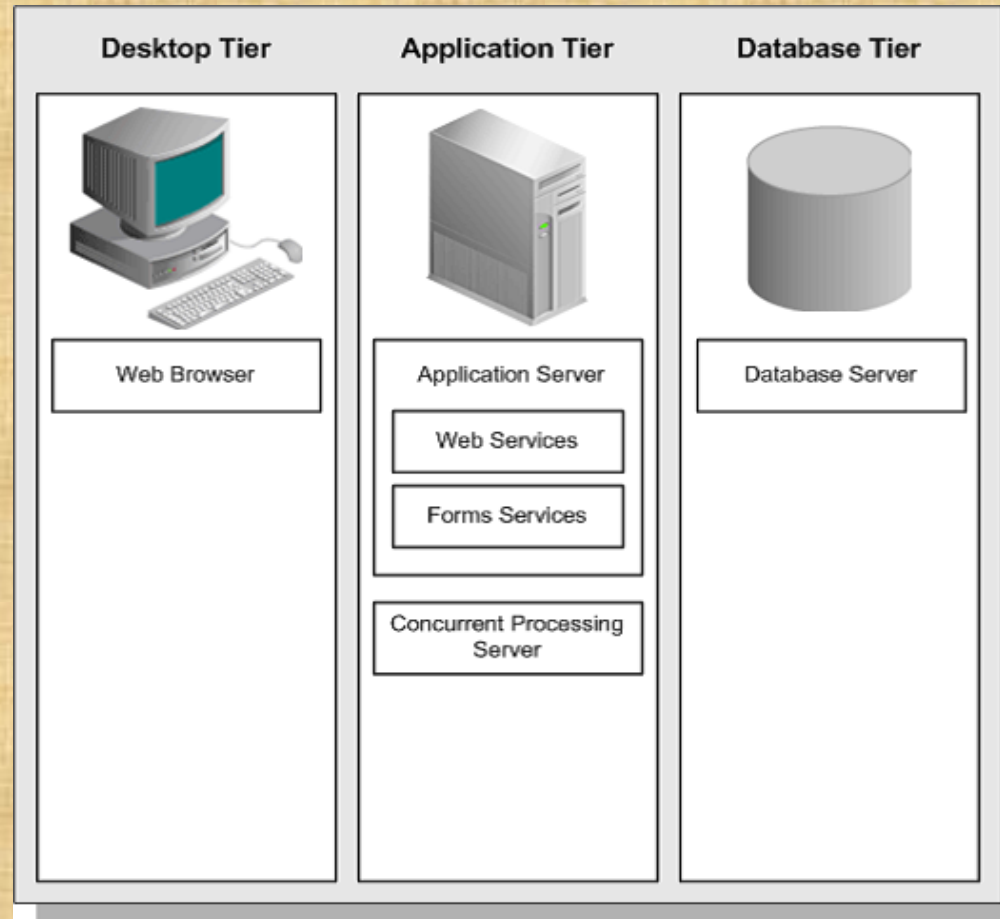
The Oracle E-Business Suite is an **integrated suite of business applications** that **connects and automates the entire flow of business processes** across both front and back office operations, and addresses the needs of a global enterprise.

Because Oracle E-Business Suite products are engineered to work together, **users can streamline the setup process by sharing common setup data** across applications.

The Oracle E-Business Suite is a complete set of business applications that **enables corporations to efficiently track detailed business transaction data and turn it into decision making information** using a system built on a unified information architecture.

# Oracle EBS Architecture

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# Oracle EBS Financials Applications

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# Functionalities

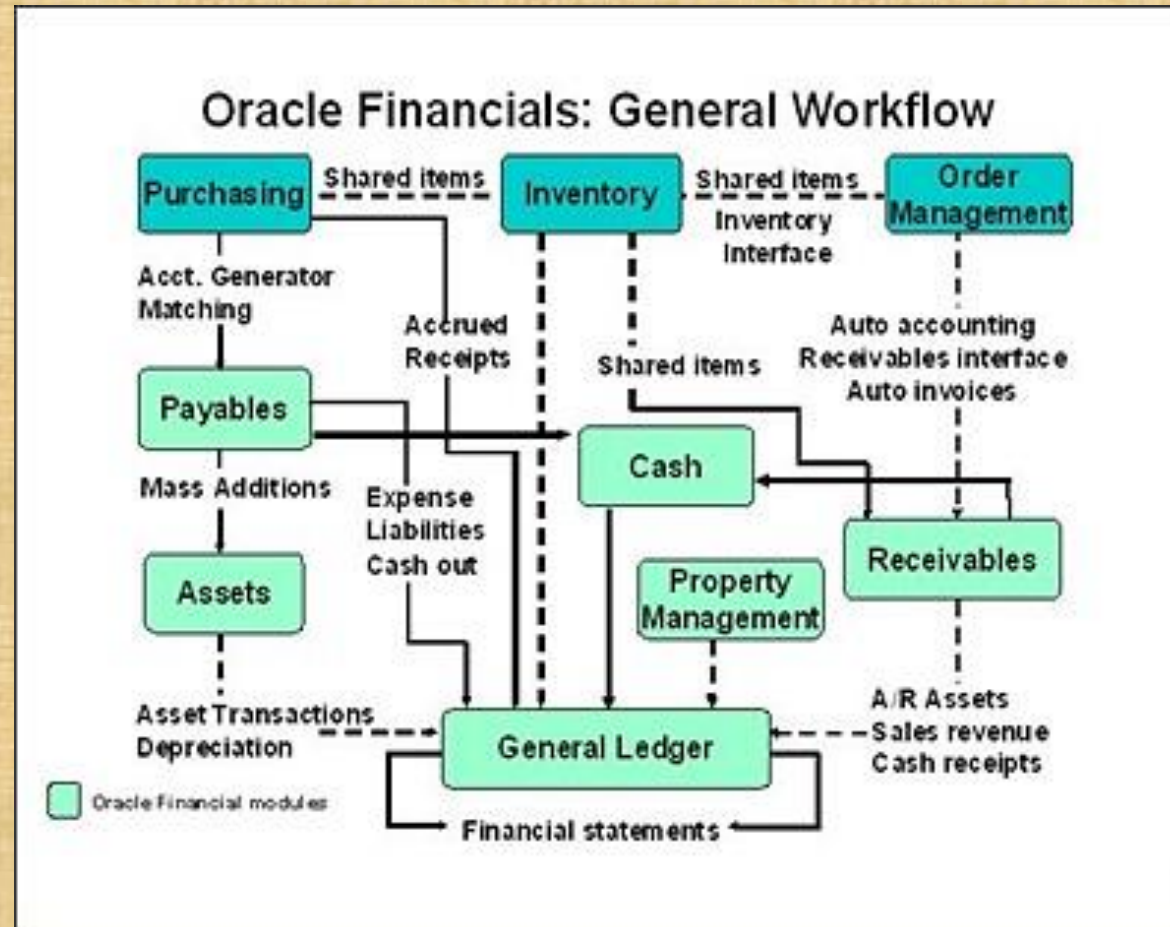
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Oracle Financials applications are a subset of this suite and are a family of products **designed to capture and analyze your financial data on a worldwide basis**. Use Oracle Financials applications to better manage business to the targets that are announced to investors. Management can better report to investors and colleagues.

Oracle Financials applications allow you to:

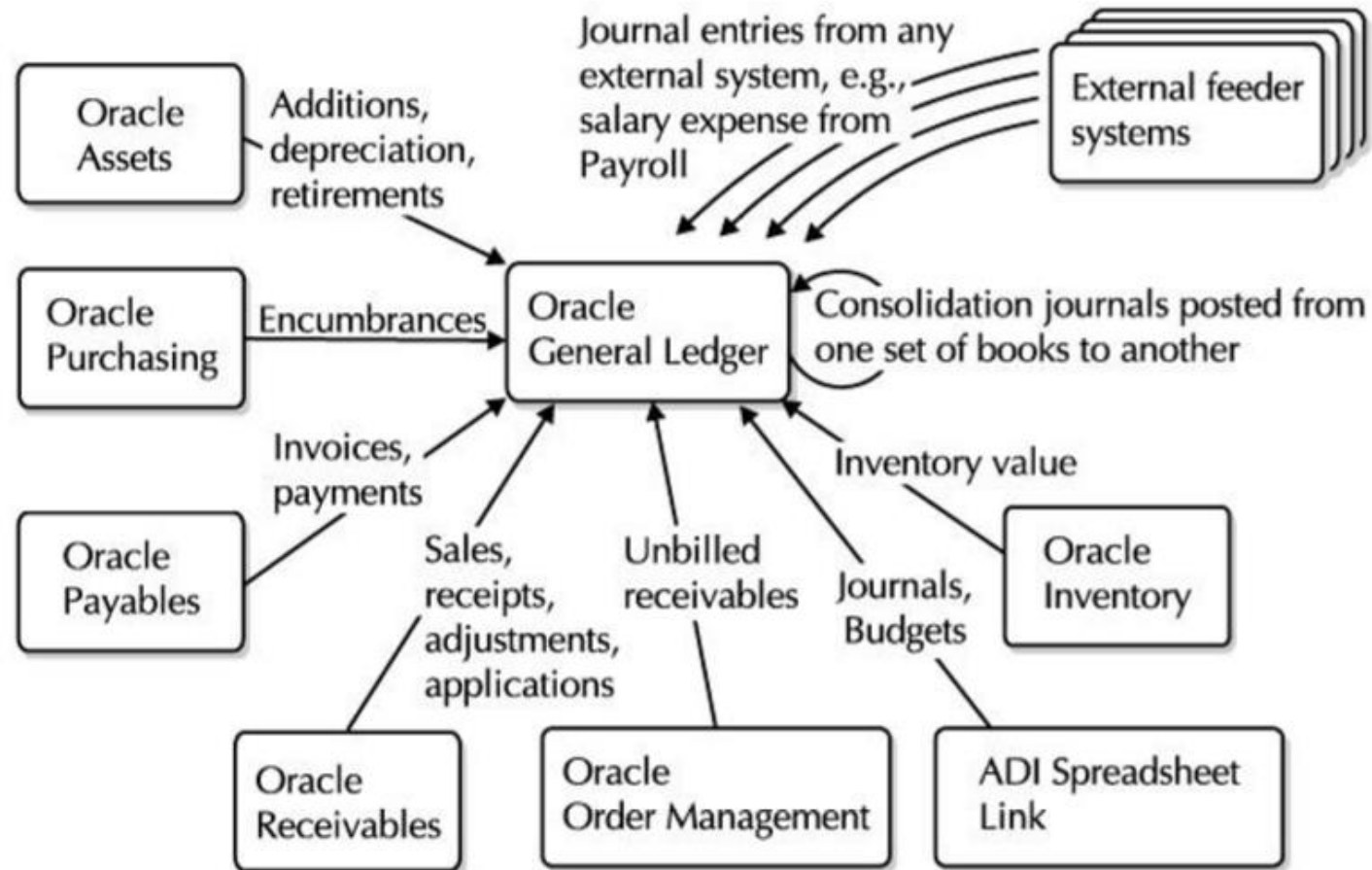
- **Work Smarter**
- **Work Globally**
- **Work Securely**

# General Workflow & Modules



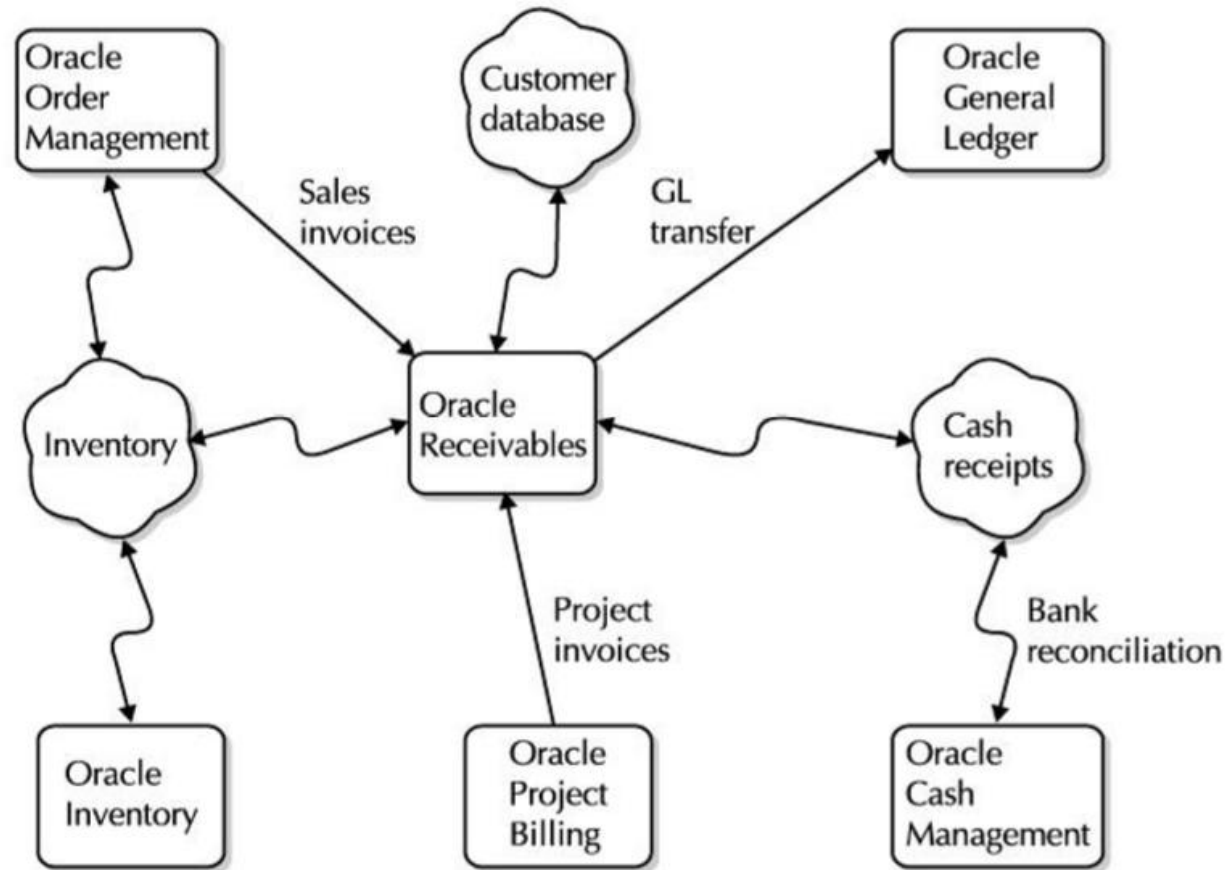


# General Ledger



General Ledger  
Functions and  
Integrations with  
other modules

# Receivables



**Figure 6-8:** An overview of Oracle Receivables' integration with other modules

Receivables Functions  
and Integrations with  
other modules

# Payables

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## FUNCTIONS

It is used to **manage suppliers, process different invoices and approve them for payments, to generate key payable reports, to improve the payment methods of effectively processing, stopping and clearing them.**

## INTEGRATIONS WITH OTHER MODULES

- ☐ With Oracle Assets
- ☐ With Oracle Receivables
- ☐ With Oracle Purchasing and Oracle Cash Management

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# Oracle EBS Supply Chain Applications

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# Functionalities

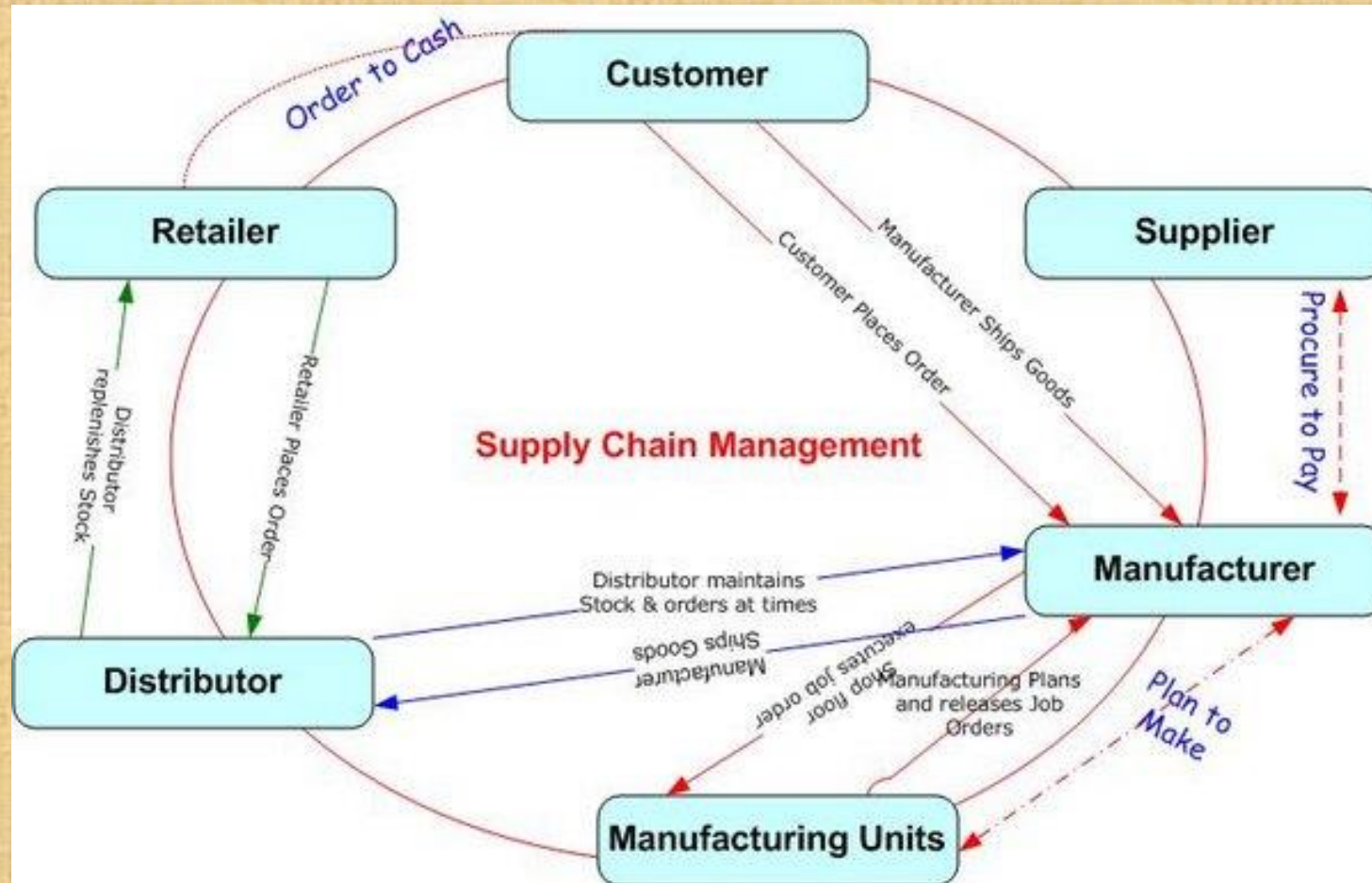
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With Oracle SCM, companies can build and operate world class value-chains for profitable growth. The Oracle E-Business Suite Supply Chain Management family of applications **integrates and automates all key supply chain processes, from design, planning and procurement to manufacturing and fulfillment, providing a complete solution set to enable companies to power information-driven value chains.**

Oracle SCM applications provides you the following benefits:

- **Get Better Information. Make Smarter Decisions. Deliver Best Results.**
- **Gain Key, Industry-Specific Capabilities**
- **Support Global Networks and Outsourcing**

# General Workflow & Modules



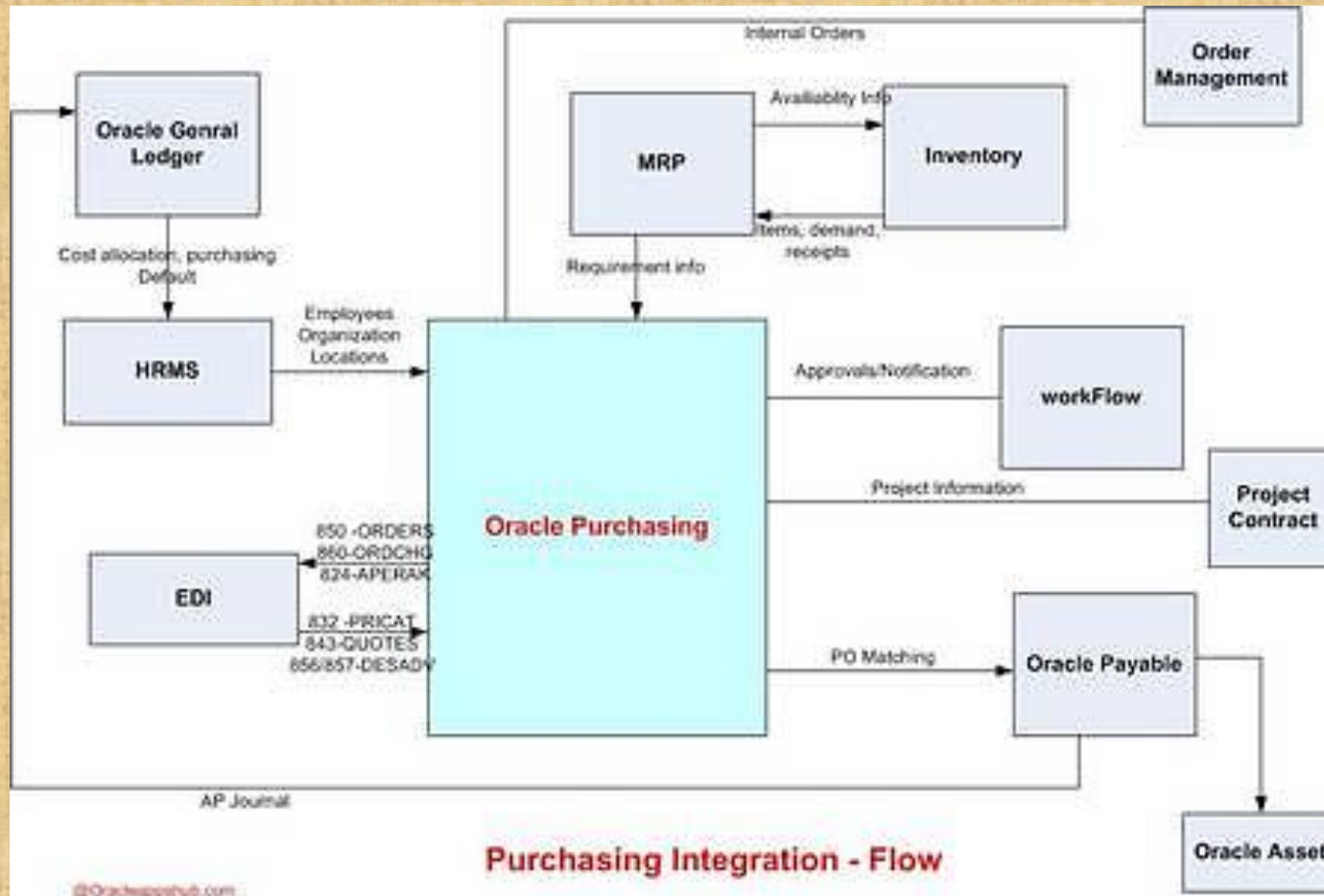
❑ Purchasing

❑ Inventory Management

❑ Order Management

❑ Manufacturing

# Purchasing



Purchasing Functions and Integrations with other modules



# Inventory Management

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## **FUNCTIONS**

- ☐ Improve Inventory Visibility
- ☐ Reduce Inventory Levels
- ☐ Control Multi-Mode Inventory Operations

## **INTEGRATION WITH OTHER MODULES**

In the Oracle Applications scheme, modules other than Inventory are responsible for getting materials into and out of Oracle Inventory's custody. Purchasing and Work in Process are the primary sources of materials, which are either bought or made. Order Management and Work in Process are the primary consumers; material is sold, used internally, or put into products. These modules refer to Inventory master tables as they generate transactions that affect Inventory. They perform their own work and then provide Oracle Inventory with the transactions needed to update balance records.



# Order Management

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## **FUNCTIONS**

- ☐ Improve Sales Visibility
- ☐ Increase Customer Satisfaction
- ☐ Expedite Sales Cycles

## **INTEGRATION WITH OTHER MODULES**

- ☐ Integration with Receivables
- ☐ Integration with Inventory
- ☐ Integration with Purchasing



Academics



Exam Cell &  
Management



Public Relation  
& Student Affairs



Training &  
Placement



Human  
Resource



Hostel



Transport

# ERP

## for Educational Institutions



Projects &  
Industry  
Relations



Stores &  
Purchase



Accounts



Payroll



Admin



Maintenance



Estate &  
Infrastructure

# ERP Implementation in Universities

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**Aim:** To provide colleges, schools and departments, with an enhanced ability for research and teaching at reasonable or low cost.

**Major Advantages:**

- Improved information access for planning and managing the institution
- Improved services for faculty, students and employees
- Lower business risks
- Increased income and decreased expenses due to improved efficiency

**Stumbling Blocks:** Generic functionality, Delays, Ease of Use

**Characteristics of ERP System:** Intuitive, Optimized for Education, Flexible, Cost-Effective and Time-Effective, Cutting-Edge and Scalable

# ERP Implementation in Universities

Various Business Activities which can be carried out through an ERP System

## **BUSINESS ACTIVITIES IN HIGHER EDUCATION INSTITUTIONS**

Business reports, controlling, decision support systems, quality assurance

### **THE IMPLEMENTATION OF EDUCATION ACTIVITIES**

portals, forums, systems for e-learning, virtual libraries, library system, laboratories, teaching equipment, simulations, etc.

### **ADMINISTRATIVE SUPPORT FOR EDUCATION PROCESSES**

SIS – student information system

### **THE IMPLEMENTATION OF RESEARCH ACTIVITIES**

Research equipment, library system, support for project work, laboratories, research software, etc.

### **ADMINISTRATIVE SUPPORT FOR RESEARCH PROCESSES**

RIS – research information system

### **OTHER BUSINESS ACTIVITIES**

HRIS – human resource information system, financial and accounting IS, administrative IS (including document system), marketing IS, publishing IS, sales IS, etc.



# ERP Implementation in Universities

## Current Scenario:

- [University of Washington](#) uses Microsoft Dynamics
- [Stanford University](#) and [University of Alabama](#) uses Oracle E-Business Suite

[Home](#) / [Web Apps](#)

## Oracle lands \$100 million ERP project covering 34 colleges

By [Chris Kanaracus](#), IDG News Service

Apr 30, 2013 11:25 AM



Oracle has won a \$100 million ERP project that will replace legacy systems at 34 colleges in Washington state, in a deal that highlights the continued relevance of its PeopleSoft product as it tries to convince customers to adopt its next-generation Fusion Applications.

The Washington State Board for Community and Technical Colleges is planning to implement Oracle's PeopleSoft Campus, Human Capital Management and Financials, according to Oracle's announcement Tuesday.

Systems integrator Ciber will work on the implementation, which is estimated to cost up to \$100 million and scheduled to be delivered over the next five years, according to the [project's website](#).



## Overview: Financial Transaction Systems @ Stanford

### On this page:

- [Key Functions of the Oracle Financials System](#)
- [Modules Used Campus-wide](#)
- [Modules Used Only by Central Office Administration](#)
- [Oracle Financials Reporting Tools](#)
- [Staying Informed](#)

## Key Functions of the Oracle Financials System

Oracle Financials is the core of Stanford's Accounting System, allowing the University to conduct and manage its financial affairs. Key functions of the Oracle Financials system include:

- Processing transactions (reimbursements / expense reports, purchases, payments, billings, receipts and journals);
- Receiving activity from the PeopleSoft system related to student accounts and payroll, recording it in the proper accounts, and sending accounting information back to the PeopleSoft and Time and Leave systems;
- Receiving accounting entries from other "feeder" systems (Development, Inter-department billings, etc.);
- Applying "burdens" (indirect costs, fringe benefits);
- Creating and posting allocations such as endowment payout;
- Tracking activity in funds, allowing for reporting to sponsors and donors, and departmental management of funds and expenditures.

### Home

### Faculty

### Staff

Account Structure: Chart of Accounts

Buying & Paying

Capital Equipment & Capital Projects

Cash Handling & Deposits

Credit Card Merchant Services

Financial Authority

Financial Reporting

Funds Management

Month-End / Year-End Close

Payroll Administration

Payroll for Employees

Petty Cash Administration

Reimbursement / Expense Reporting

Supporting Students

Tax Compliance @Stanford

Travel

Treasurer's Office

### Students/Parents

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### Launch Systems:

Oracle (ofweb) ▼

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[Browser Requirements](#)

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CMS ▼

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## University of Washington

Continuing education program improves prospect experience with modern CRM solution

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July 04, 2014



### Solution Overview

#### Product and Services

Microsoft Dynamics CRM

#### Industry

Education

#### Organization Size

Large (1,000 - 9,999 employees)

#### Country

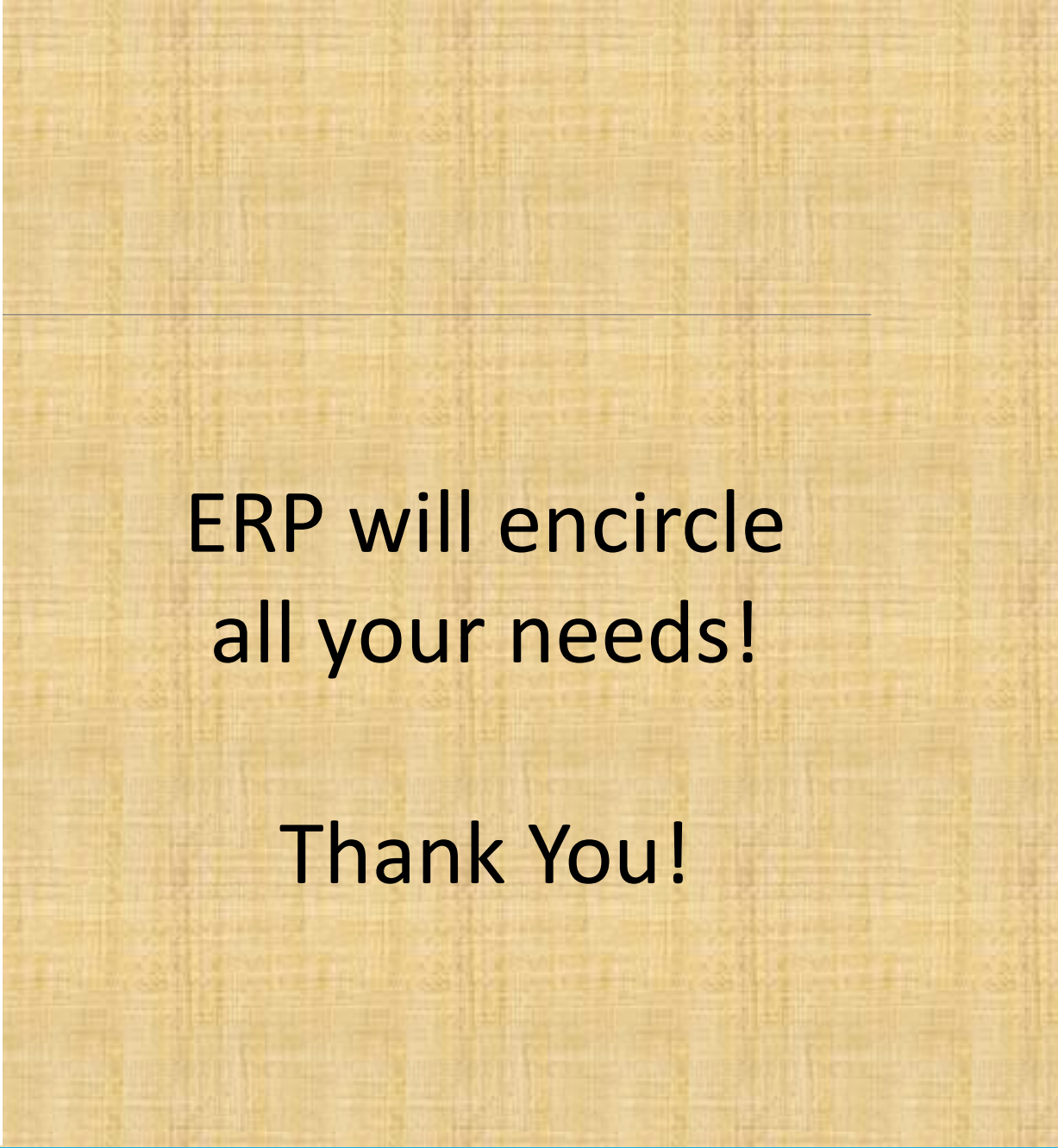
United States



Westmoreland\_HiRes

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