

Accounting Information Systems with ERP Applications

ICT 30430

Assessment Methods

- Class Tests (8 marks x 5 tests)
40
- Final Examination 60
- Total Marks 100

Class Tests

Will be held during the lectures. If a student absent for the test, no marks allocated. There will be 5 tests during the semester.

Course Outline

- **Introduction to Information Systems**
- **Introduction to Sage 50 Accounting**
- **Creating a Company**
- **Setting up General Ledger**
- **Entering Budgets, Beginning Balances and Prior Period Adjustments**

Course Outline

- **Setting up Accounts Payables**
- **Setting up Inventory**
- **Setting up Customers**
- **Using Accounts Payable (Suppliers)**
- **Using Inventory (Stocks)**
- **Using Account Receivable (Customers)**

Course Outline

- **Customer Receipts & Other Income Receipts**
- **Vendor Payments and Other Payments**
- **Using General Journal and Banking Tasks**
- **Accessing Reports/Forms and Running the Year-End**

What is Computer Based Accounting?

- Carrying out functions in the accounting process using a computer software.
- There are three ways of computer based accounting.
 - Using a spread sheet package (e.g. Ms Excel)
 - Using a Accounting Software Package (e.g. Sage)
 - Using an Enterprise Resource Planning System - ERP (e.g. SAP)

What is Computer Based Accounting?

- Advantages
 - Accuracy
 - Speed
 - Storage capacity
 - Cost reduction
 - Up-to-date reports
 - Analyzing capabilities
- Disadvantages
 - Initial cost
 - Replacement requirements
 - Human errors
 - System errors

Introduction to information systems

- Information systems have become an important part of today's society, particularly in business
- The term information system (IS) sometimes refers to a system of persons, data records, and activities that process the data and information in an organization
- As an accountant, you are affected by developments in information technology
- Information systems collect business data that accountants analyze, and business plans and decisions are made based on such

Introduction to information systems

- Accountants are concerned not only with the collection and processing of information, but also with its integrity and protection
- They are often expected to give professional feedback on the adequacy of the information systems.
- It is therefore essential for you to have adequate knowledge in

What is an information system?

- An information system is a specialized type of system designed to collect data and turn them into information.
- It consists of interrelated components that perform the following four major activities in sequence:
 - 1. input
 - 2. processing
 - 3. output

Major types of information systems

- **E-business**

- One of the fastest growing sectors is **electronic business or e-business**. These applications make use of websites and the Internet to facilitate business transactions

- **Transaction processing systems**

- These systems were designed to facilitate day-to-day operations of

Major types of information systems

- **Management information systems and decision support systems**
 - Typically, these systems produce information for middle management in the form of scheduled reports such as summaries and lists
- **Special-purpose information systems**
 - assist senior management to make more effective decisions of a complex

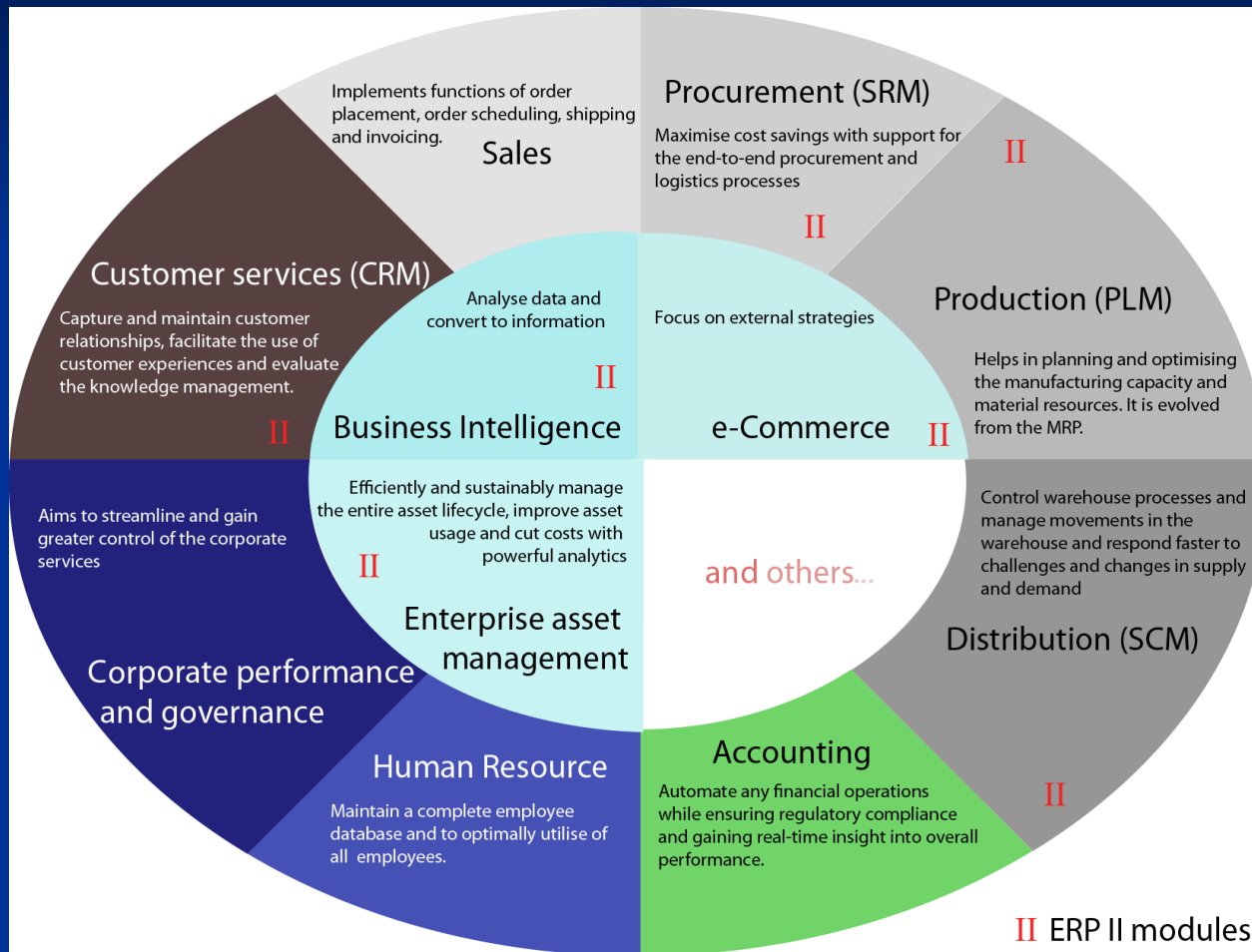
Justifying computer-based information systems

- Business use of information systems has evolved through a series of three stages:
 - cost reduction and productivity (1960s)
 - competitive advantage orientation (1980s)
 - performance-based (current)

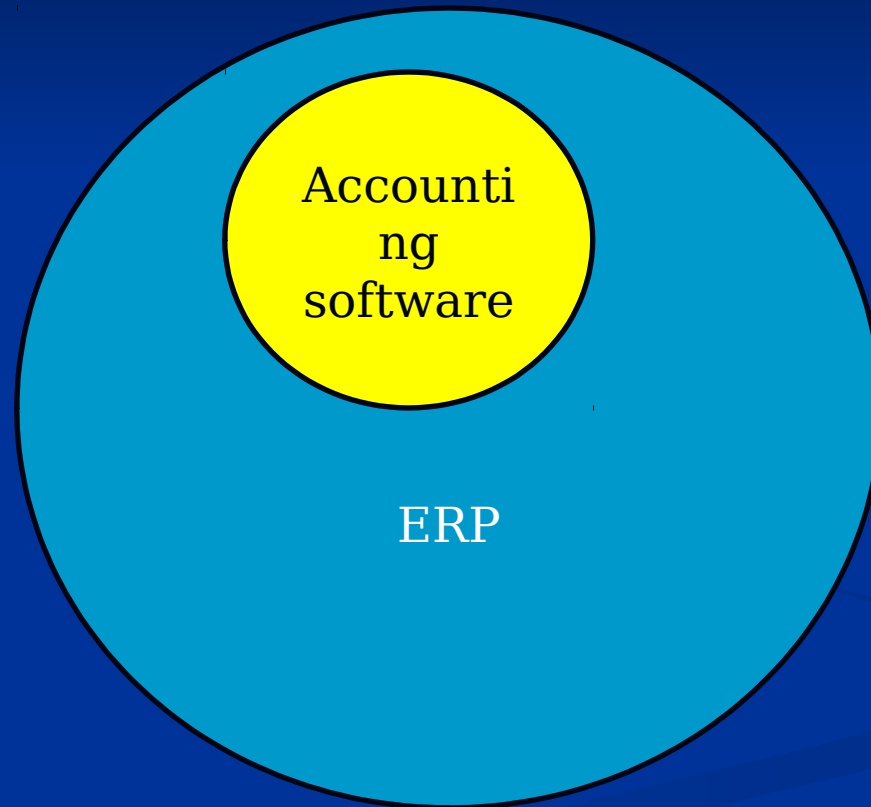
What is ERP System

- ERP, or enterprise resource planning, is an integrated system that allows a company to fully manage the manufacturing process to be able to hold on to less inventory and obtain more data to better manage the situation.
- ERP provides an integrated view of core business processes, often in real-time, using common databases maintained by a

ERP System



Accounting software Vs ERP



SAP ERP- INTERFACES

The screenshot displays the SAP HR Master Data interface. At the top, there is a menu bar with options: HR master data, Edit, Goto, Extras, Utilities(M), Settings, System, and Help. Below the menu is a toolbar with various icons for navigation and actions. The main title is "Maintain HR Master Data".

On the left side, there is a "Find by" section with a tree view showing "Person" and its sub-items: "Collective search help", "Search Term", and "Free search".

The main area contains the following data fields:

- Personnel no.: 1000
- Name: Anja Müller
- EE group: 1 Active
- Pers.area: 1300 Frankfurt
- EE subgroup: DS Executive employ Cost Center 2200 Human Resource

Below the data fields, there are three tabs: "Core Employee Info.", "Empl. contract data", and "Gross/net payroll". The "Core Employee Info." tab is active.

The "Core Employee Info." tab is divided into two sections:

- Infotype text:** A list of infotypes with checkboxes and green checkmarks indicating they are active. The list includes: Actions, Organizational Assignment, Personal Data, Addresses (highlighted), Bank Details, Family Member/Dependents, Challenge, Internal Medical Service, and Maternity Protection.
- Period:** A section for selecting a period. It includes a radio button for "Period", a "From" and "To" date range, and several radio button options: Today, Curr.week, All, Current month, From curr.date, Last week, To Current Date, Last month, Current Period, and Current Year. A "Choose" button is also present.

At the bottom of the "Core Employee Info." tab, there is a "Direct selection" section with the following fields:

- Infotype: Addresses
- STy: [empty]

The SAP logo is visible at the bottom left, and the status bar at the bottom right shows "QPT (1) 004" and "uscqpt | INS".

SAP ERP- INTERFACES (cont'd)

AMC Multi-Channel Integration Suite™

mySAP™ CRM 4.0 Interaction Center WinClient

Softphone Controls

Agent Dashboard

- real-time agent and channel state
- ANI, DNIS identification

Business Partner
Screen Pop

- real-time contact information

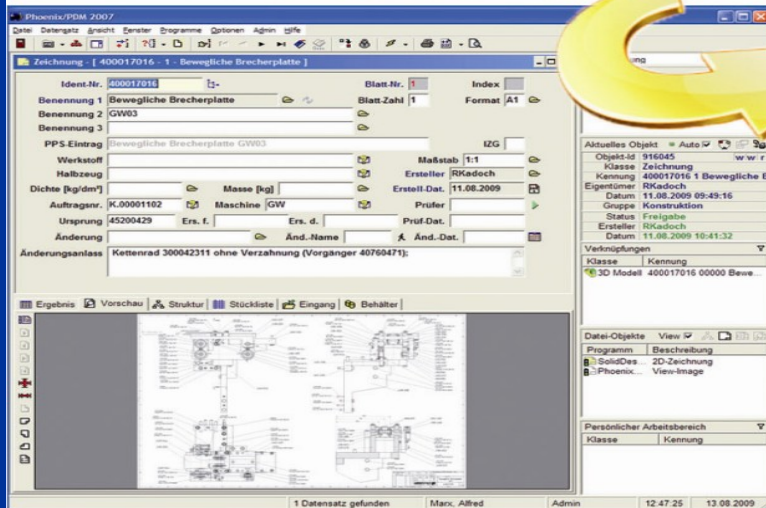
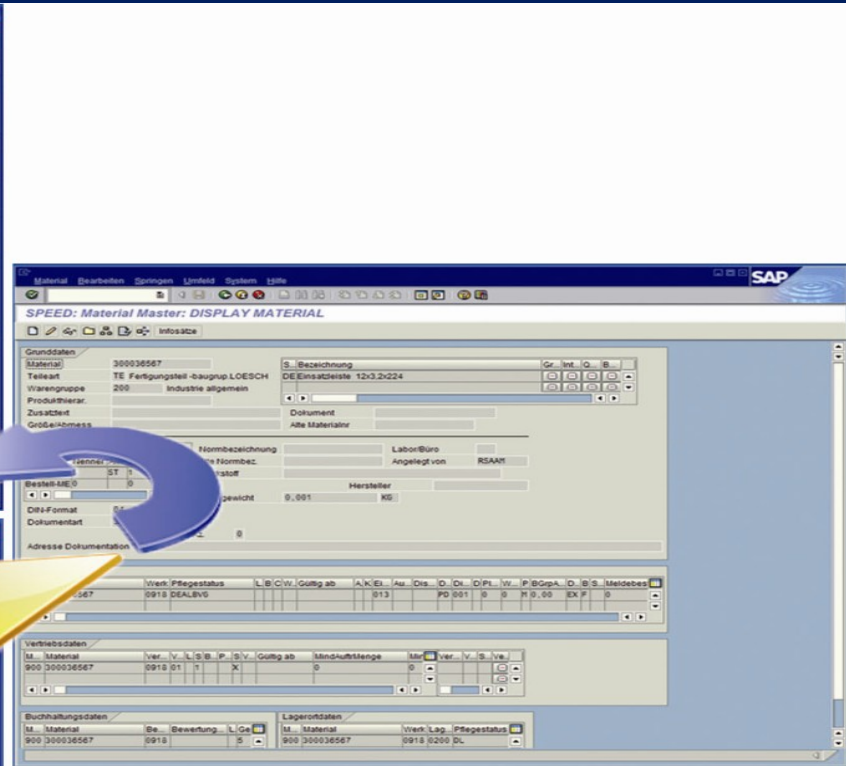
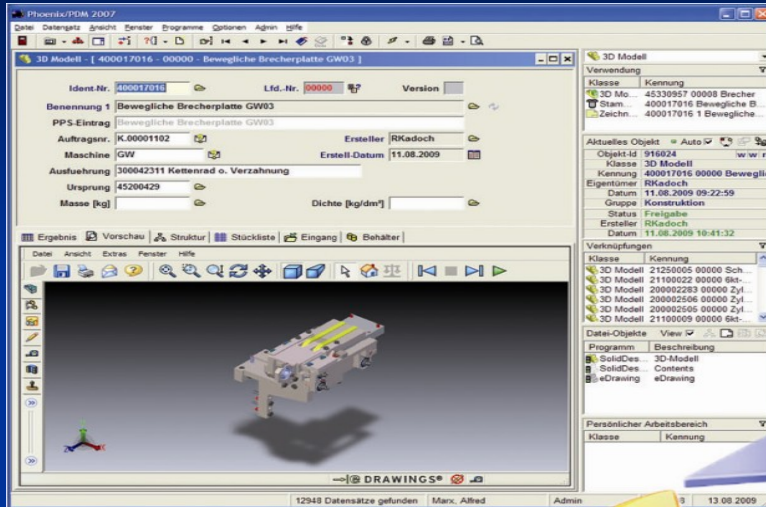
Business Partner
Display and
Interaction History

- real-time history of business activities
- business partner specific

The screenshot displays the mySAP CRM 4.0 Interaction Center WinClient interface. At the top, there is a menu bar with options like 'Telephone', 'Edit', 'Queue', 'Incoming calls', 'Agent', 'System', and 'Help'. Below the menu is a toolbar with various call control buttons such as 'Answer', 'Hold', 'Retrieve', 'Reconnect', 'Alternate', 'End call', 'Conference call', 'Blind transfer', 'Warm transfer', 'Consult', and 'End Contact'. The main interface is divided into several sections:

- Business Partner Screen Pop:** Located on the left, it displays contact information for 'Anna Teal' with fields for Name, Phone (24158), Partner (241), and Name.
- Agent Dashboard:** Located on the right, it shows agent status (Alerting Party: Anna Teal), ANI (24158), and DNIS (24151). It also includes a timer showing '00:34' and buttons for 'Inbox', 'Info', 'Activity', and 'Script'.
- Business Partner Display and Interaction History:** Located at the bottom left, it shows a list of interactions with columns for 'Short text' and 'Object type'. The current interaction is highlighted as '241 Anna Teal' with 'Business Partner CRM' as the object type.
- Business Activity:** Located at the bottom right, it displays details for the current interaction, including 'Activity Partner' (241), 'Contact Person' (Anna Teal), and 'Person Responsible'. It also shows 'Actual Dates' (From: 05/19/2005 16:39, To: 05/19/2005 16:39) and 'Status' (Location, Completion, Priority: Medium).

SAP ERP-INTERFACES (cont'd)



SAP ERP- INTERFACES (cont'd)

SAP logo | --Collaboration Tools-- | Search | Personalize: Page | Portal | Log Off | Add To Favorites | Welcome Peter Johnson

Home | Activities | **Account Management** | Acquisition | Sales | Products | Analytics
Overview | Accounts | Contacts

Accounts

Show: MyFavorites | **Get Account ID** | Personalize | Help

Create | Save | Delete from Favorites | Fact Sheet | Print

| Name 1 | Street | Postal Code | City | Country | Std Contact Person | Telephone |
|-----------------|------------------|-------------|-------------|---------|---|--------------|
| Media Store | 489 251 Highway | 60002 | ANTIOCH | US | Mr. John Taylor / PO Box 1030 / ANTIOCH IL 60002 | |
| ANDCOM COMPUTER | 1625 Perkins Way | 98155 | SEATTLE | US | Mr. Andrew Sands / PO Box 1030 / SEATTLE WA 98155 | +12067242337 |
| | Avenue | 55427 | MINNEAPOLIS | US | Lou Daly / PO Box 1030 / MINNEAPOLIS MN 55427 | |

What does the user look for most often?

What does the user need first?

Interaction History | Activities | Opportunities | Contact Person | Documents | Notes | Addresses

| Transaction No. | TransactionType | Description | Priority | Status | Category | Posting date |
|-----------------|----------------------|-------------|----------|------------|----------------|--------------|
| 0000001640 | Sales Call | | Medium | Complete | Visit | 04/14/2003 |
| 000000493 | Sales Methodology | | | open | | 02/06/2003 |
| 000000492 | Sales Methodology | | | open | | 02/06/2003 |
| 0005000718 | Quotation (-> Order) | Opportunity | Medium | | | 08/13/2002 |
| 0005000679 | Quantity contract | - | | In process | | 07/26/2002 |
| 0005000652 | Telesales | - | Medium | | Telephone Call | 06/25/2002 |
| 000000431 | Opportunity | Opportunity | | open | | 05/07/2002 |
| 0005000601 | Telesales | Opportunity | Medium | | Telephone Call | 05/07/2002 |
| 0005000351 | Sales Process | - | Medium | | Telephone Call | 12/10/2001 |
| 0005000321 | Telesales | - | Medium | | Telephone Call | 11/21/2001 |

What is the most important information on an object?

User Interface Patterns: Answers to design questions (Examples of mySAP CRM 3.1)

Accounting Software Packages

■ General (Tailor-made)

- MYOB
- Account Pro
- Peachtree/Sage 50
- DacEasy
- ACCPAC
- SAGE
- Tally
- Quick Book

■ Special (Customized)

- Stock control systems
- Payroll systems
- General ledger systems
- Debtors/Creditors modules
- Cash books

Accounting Software Packages

- Accounting software packages can be supplied in
 - Individual (stand – alone) or
 - Total Integrated Package
- In a stand alone system, modules are purchases separately, the transfer of values to the GL or to other modules
 - Printing control total and posting them
 - Creating transfer file for posting
- In an integrated system , all modules are supplied together and operated together
- Information created in one module automatically flows to other modules

Accounting Software Packages

- An accounting package organizes an **accounting database** comprising a number of files to provide accounting information required by the users.
- These files are fallen into three categories:
 - Master files
 - Transaction files
 - Temporary/ working files

Master Files

- Master files contain relatively static data plus some quantitative values which are periodically updated by entry of transactions
 - Debtors master file
 - Creditors master file
 - General ledger master file
 - Stock master file
 - Fixed asset register
 - Payroll master file

Transaction Files

- Transaction files summarize data available in source documents,
 - Purchase/ Sales Orders
 - Invoices
 - Return Notes
 - Receipts
- Normally used to update balances in the master files

Temporary/ Working Files

- Temporary files are short term files, kept for specific purposes, data in which will be deleted when the purpose has been fulfilled.
 - Suspense Account
 - Waiting on Bill
 - Advances Received

Sage 50

- Provides advanced analysis tools and 140+ customizable reports and financial statements
- It is ideal for people who want accuracy and control, so they can achieve better business results.
- It can be installed to the **Single/Stand-Alone Computer or a Network**

Sage 50

There are several ways to open Sage 50

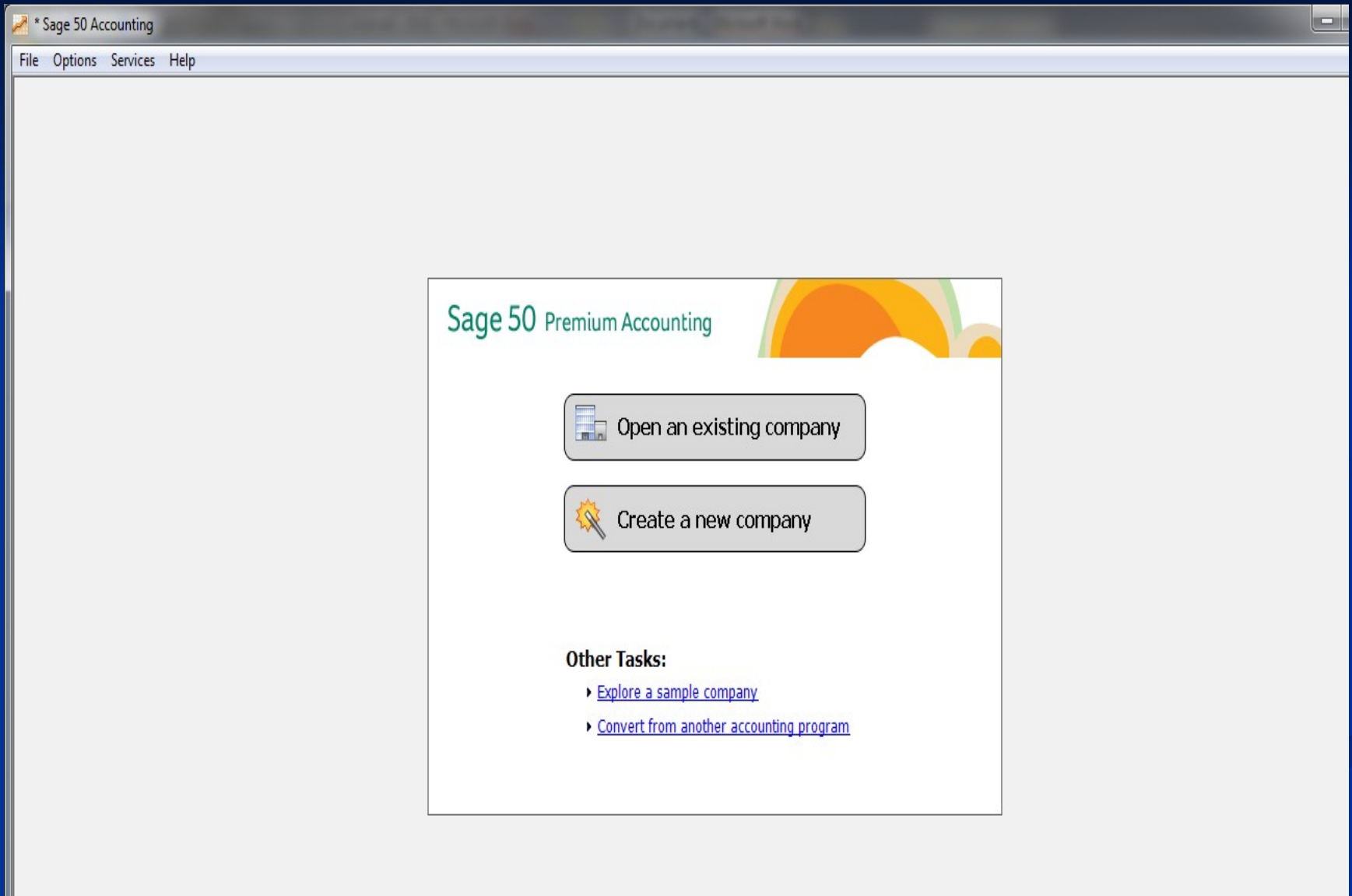
- **From the Taskbar**

Select **Start** - Select **Program** - Select **Sage 50 Accounting 2013** - Click **Sage 50 Accounting 2013** icon

- **From the Desktop**

Double-click **Sage 50 Accounting 2013** icon

The Start Screen



The Sage 50 Desktop Window

The screenshot shows the Sage 50 Desktop Accounting software interface. The window title is "Active: * ADS - Sage 50 Accounting". The menu bar includes File, Edit, Lists, Maintain, Tasks, Analysis, Options, Reports & Forms, Services, Window, and Help. The main window is titled "Customers & Sales" and contains several sections:

- Business Status:** A section at the top left with a status icon and a search bar.
- Navigation Bar:** A vertical sidebar on the left containing icons for Business Status, Customers & Sales, Vendors & Purchases, Inventory & Services, Employees & Payroll, Banking, and System. It also includes a Shortcuts section with links like "Sales Invoice", "Receive Money from Customers", etc.
- Buttons:** A row of buttons at the top of the main content area: Hide, Refresh, System Date: 07/22/14, Period 7 - 07/01/13-07/31/13, and "This is the default page".
- Navigation Centers:** A central area with a grid of task icons: Customers, Jobs, Sales Taxes, Quotes and Proposals, Time and Expense Tickets, Sales Orders, Sales Invoices, Finance Charges, Receive Money, and Bank Deposits.
- Business Status Center:** A table on the right titled "Customers" with columns for Customer ID, Customer Name, Telephone 1, and Balance. It includes a "View Detailed List" link.
- Recently Used Customer Reports:** A section with a list of reports (Aged Receivables, Customer Transaction History, Sales Journal, Invoice Register, Cash Receipts Journal) and "View" and "Print" links for each.
- Aged Receivables:** A section with a legend for aging periods (0-30, 31-60, 61-90, Over 90 days) and a pie chart.
- Sage Solutions:** A section at the bottom with links for "Checks & Forms", "Credit Card Service", "Product Feedback", and "Time & Billing".

Title Bar

Menu Bar

Button Control Bar

Navigation Centers

Short Cuts

Business Status Center

Navigation Bar

End of the Lesson