

Hi everyone

Again, please sit together in your  
groups

Go ahead and log in

(you can boot on your normal Win7 session)

While waiting for everyone, you can install the two  
tools available in the blackboard:

- ExtendSim9Demo
- CaliachVisionDemo

Each group will need to submit **one** brief (max 2 pages\*) written report

**\*Screenshots and output from programs can exceed 2 pages\***

The deadline is **29 March**  
(deadline of lab 1: **15 March**)

(both dropboxes are available on the blackboard)

**Scenario:** You should create a story/character that guides how you input data into your system

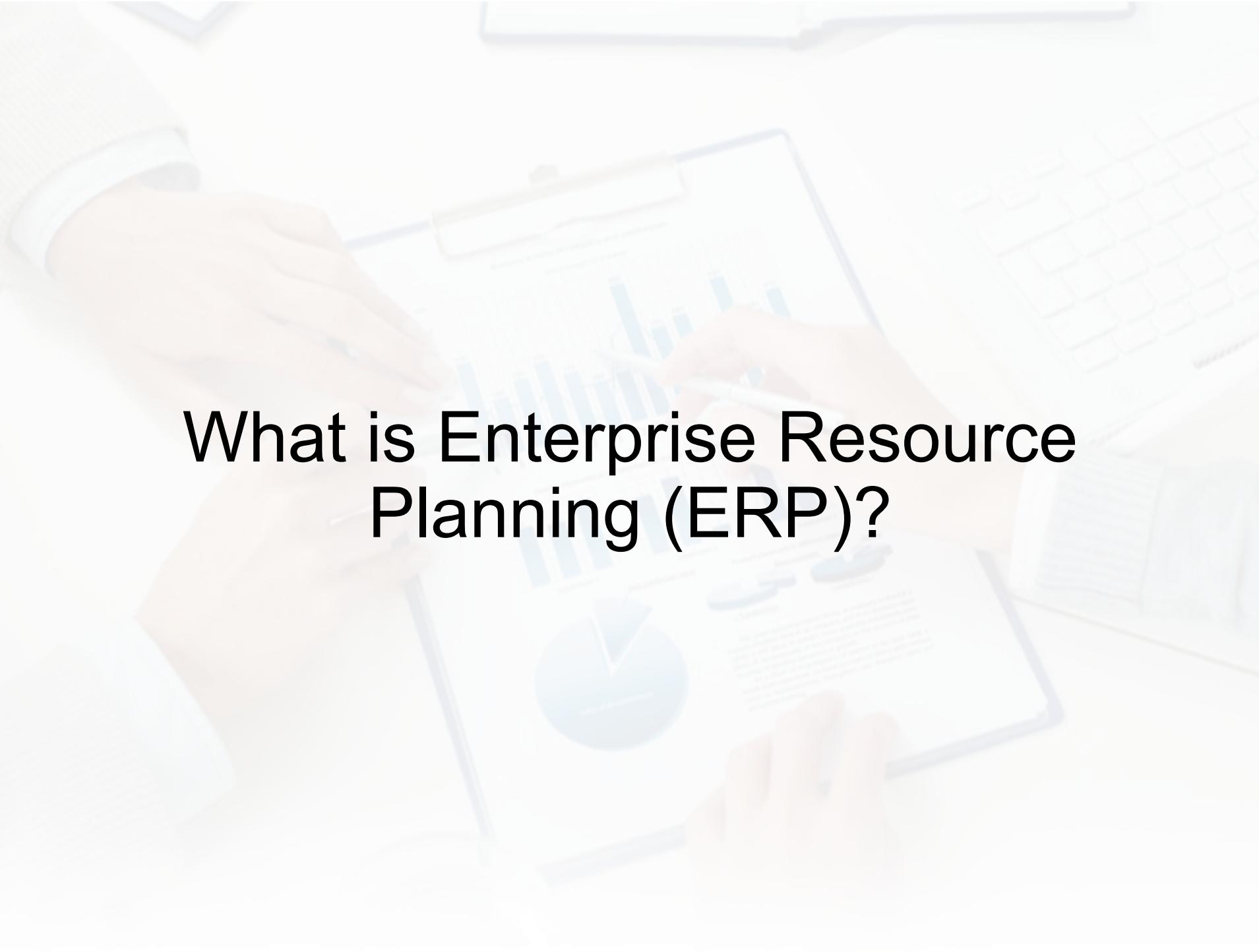
**Screenshot:** Any task that asks you to do something, take a screenshot (Print Screen) to show you completed it

# One representative from your group should submit the group report on Blackboard



The screenshot shows the L@PU Blackboard interface. At the top, there is a navigation bar with the L@PU logo, a search bar, and a user icon. Below the navigation bar, the page title is 'Content > Labs'. The main content area is titled 'Labs' and contains a section titled 'Lab Report' with a pencil and paper icon. Below this section, a text box states: 'One representative from each group should submit the group report here.' On the left side of the main content area, there is a sidebar with a navigation menu. The menu items include 'COMP5133\_20141\_A (Information Systems and E-commerce Strategy)', 'Home Page', 'Information', and other collapsed menu items. The overall layout is typical of a Blackboard learning management system.

- 1) Enterprise Resource Planning  
using Caliach Vision
- 2) Simulation using ExtendSim
- 3) Statistical Analysis using  
SPSS

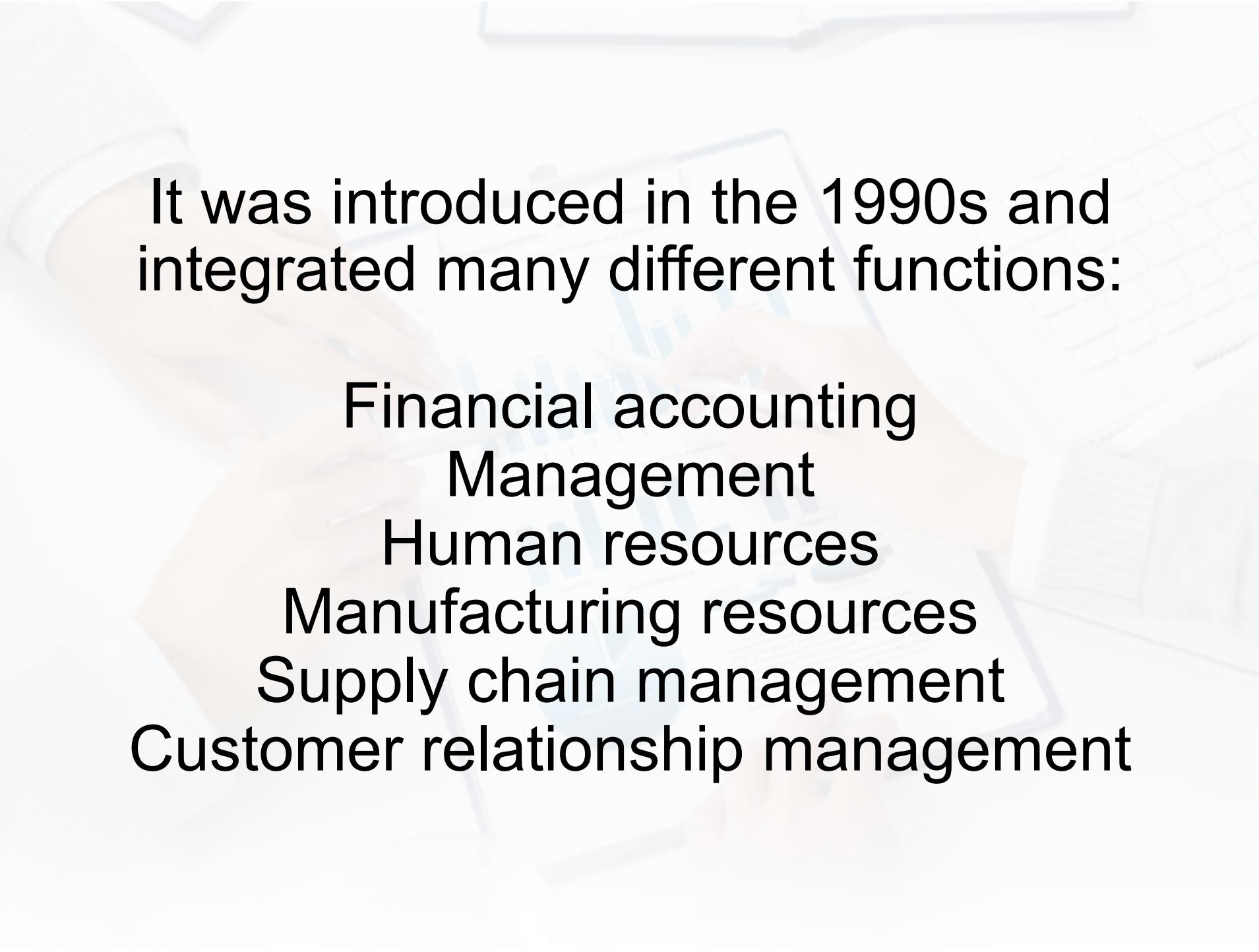


# What is Enterprise Resource Planning (ERP)?

ERP is a business management software suite that is used to collect, store, manage and interpret business data

e.g.

Product planning  
Manufacturing  
Inventory management



It was introduced in the 1990s and integrated many different functions:

- Financial accounting
- Management
- Human resources
- Manufacturing resources
- Supply chain management
- Customer relationship management

ERP software like Caliach Vision consists of several major components:

- Relational database
- Workflow management
- Reporting system
- Business intelligence
- Search engine

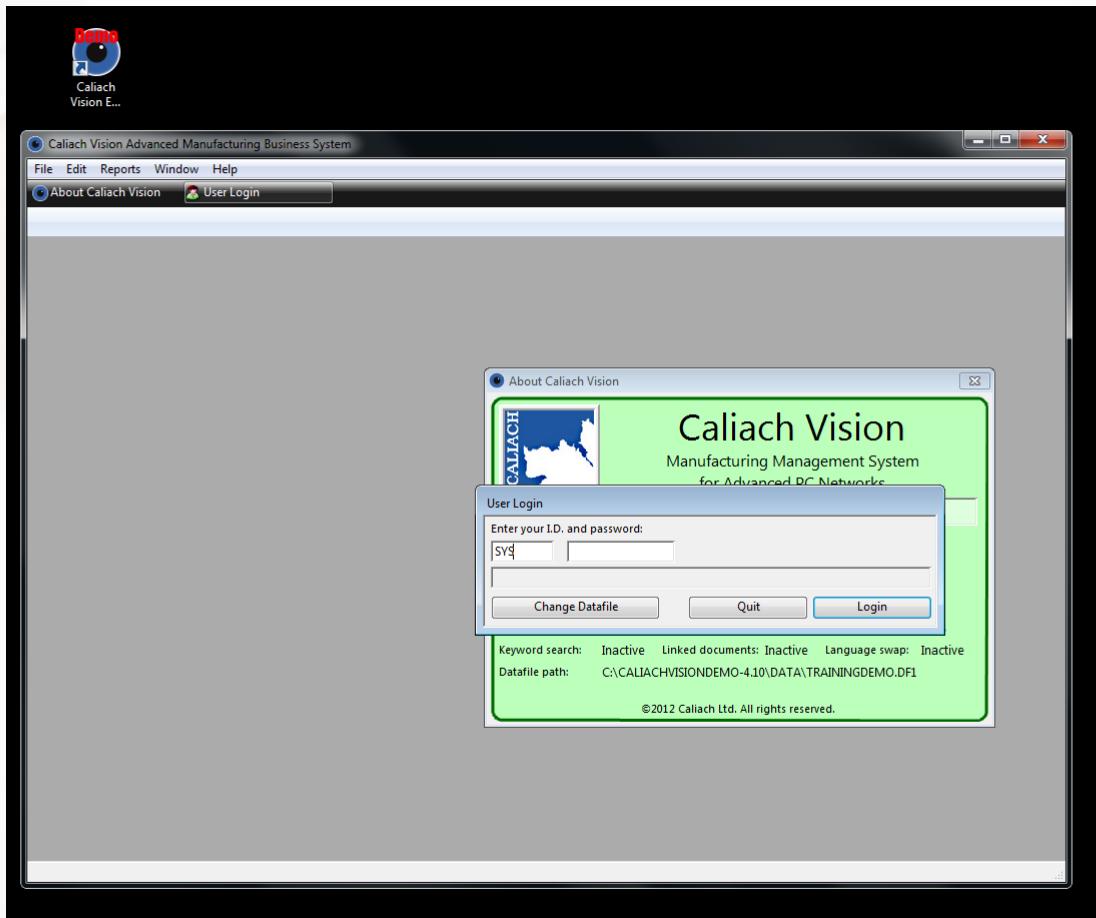
# Using Caliach Vision



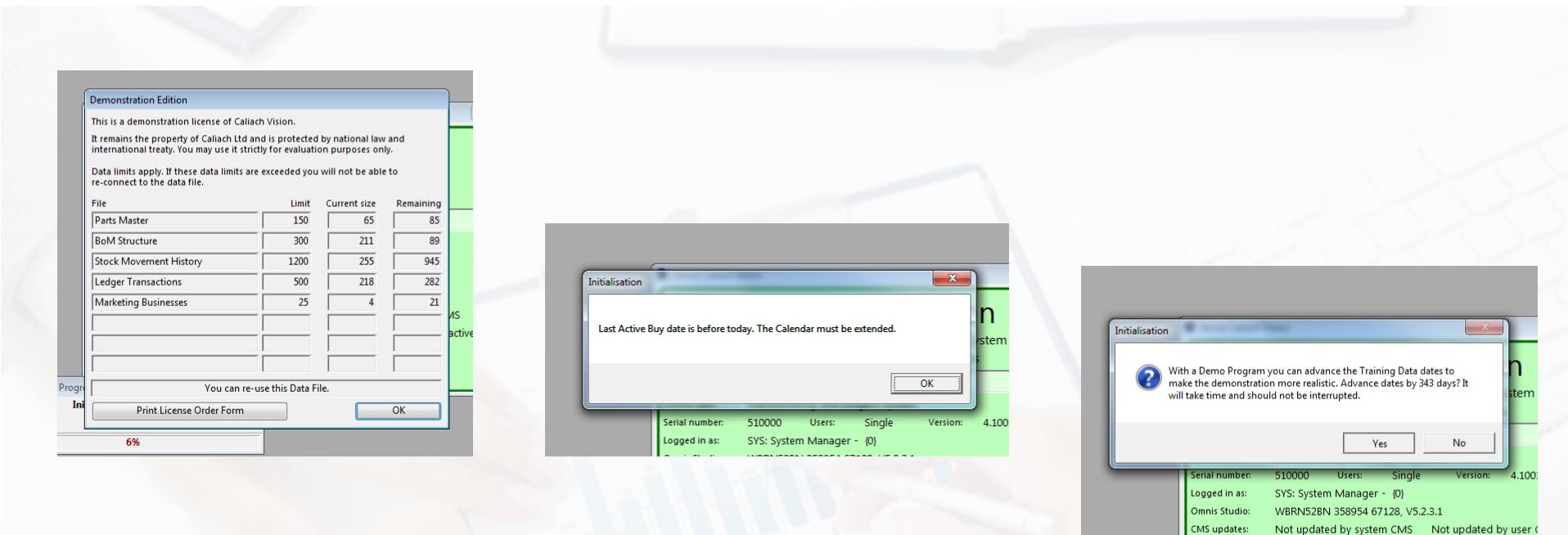
The screenshot shows a web browser window for the L@PU LEARN@POLYU website. The header includes the L@PU logo and the Hong Kong Polytechnic University logo. The page title is 'Content > Labs'. On the left, a sidebar for 'COMP5133\_20141\_A (Information Systems and E-commerce Strategy)' lists 'Home Page' and 'Information'. The main content area is titled 'Labs' and contains a link to 'Caliach Vision 4.10 Demo (Windows)'.

# Download and install





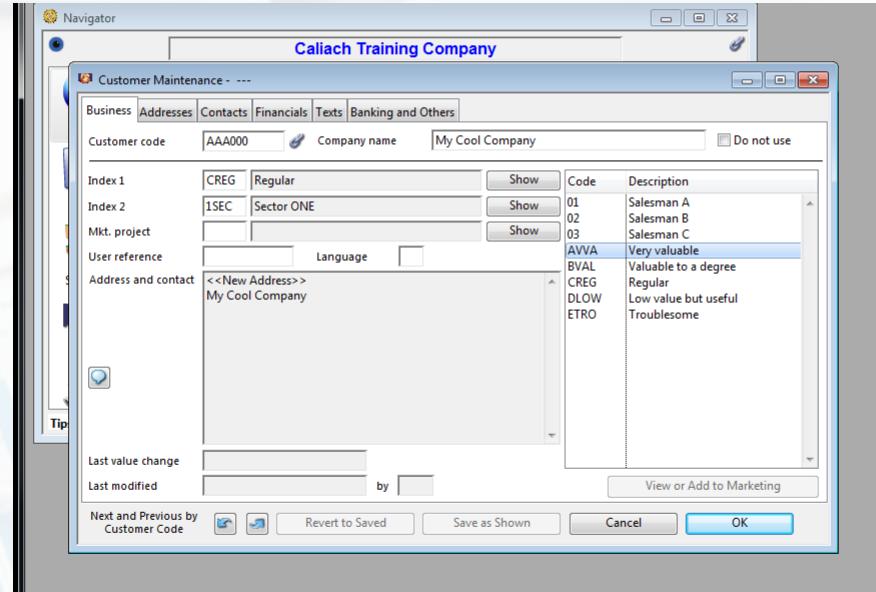
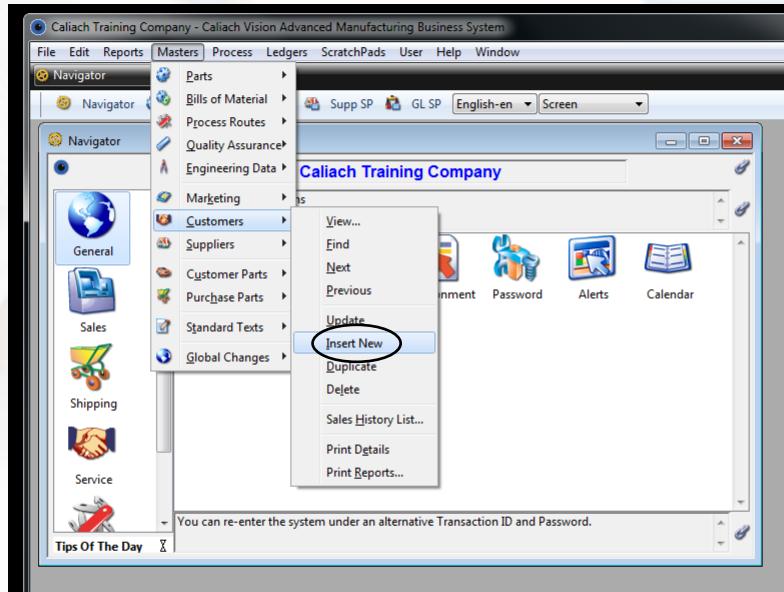
# Log in with SYS (no password)



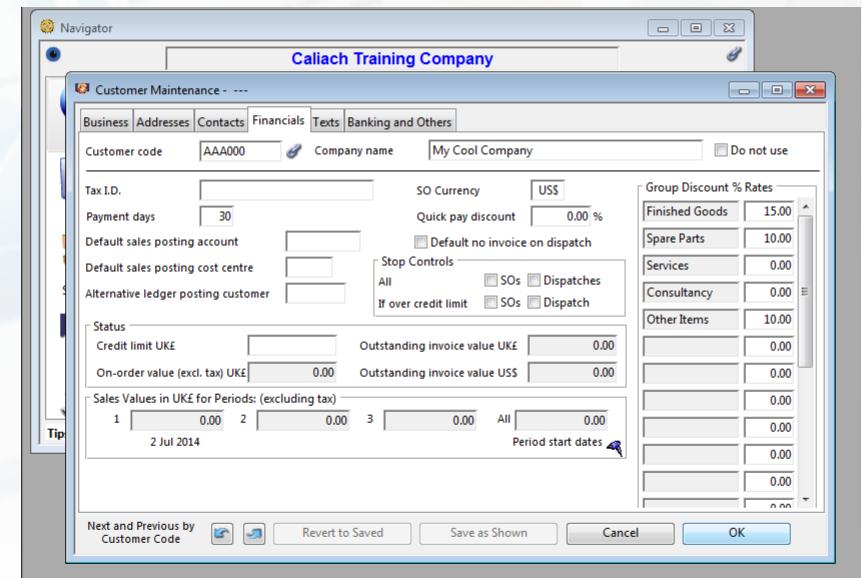
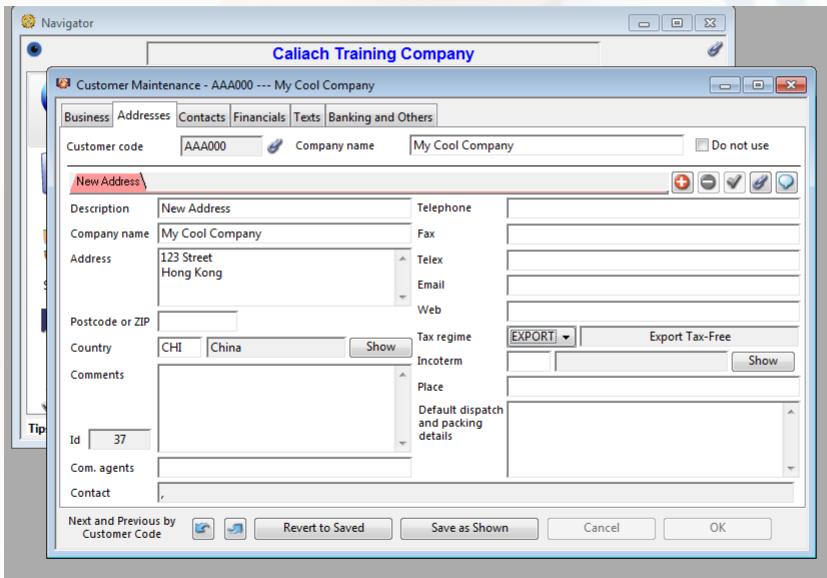
# Click OK/Yes/Close

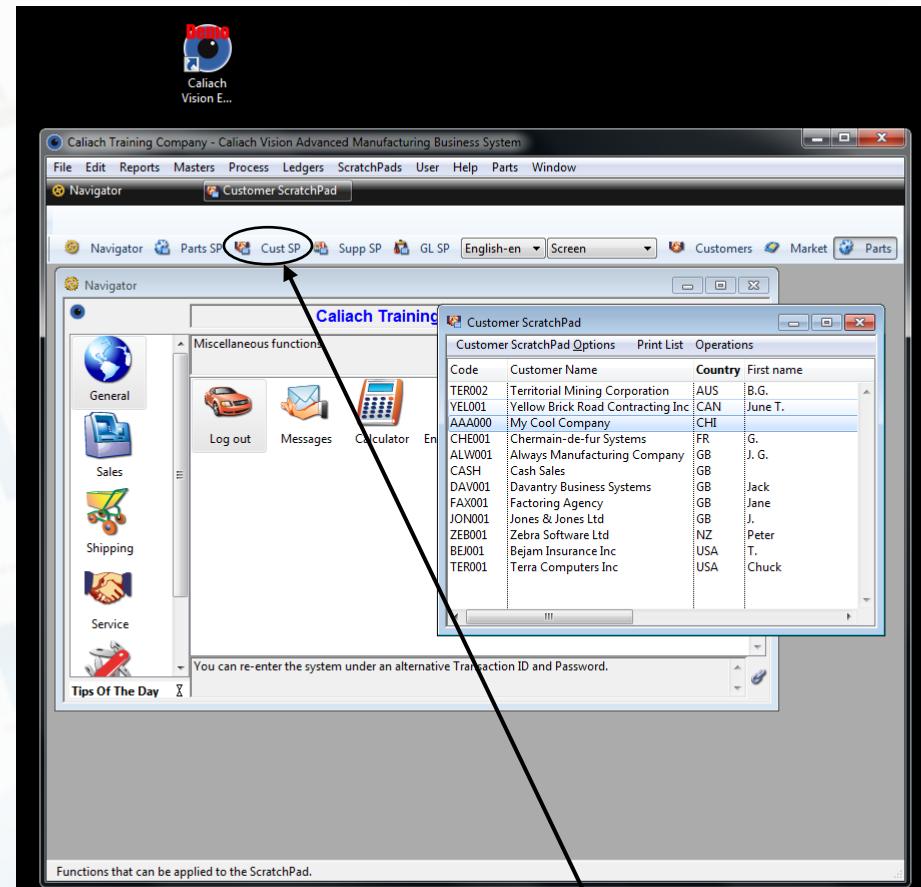


**Task 1: Follow the tutorial PDF to create a new customer and a new order for that customer**

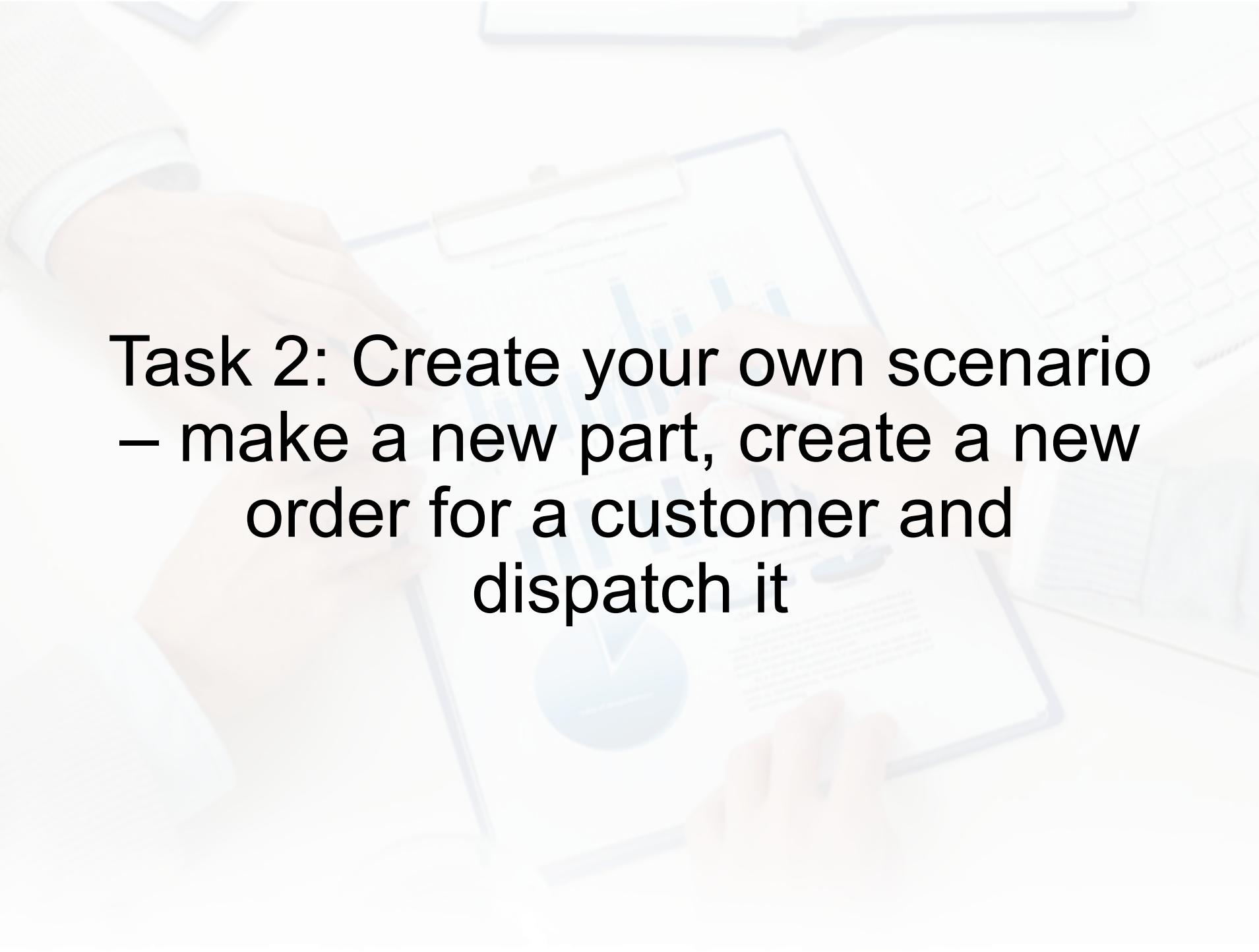


# Enter a new customer

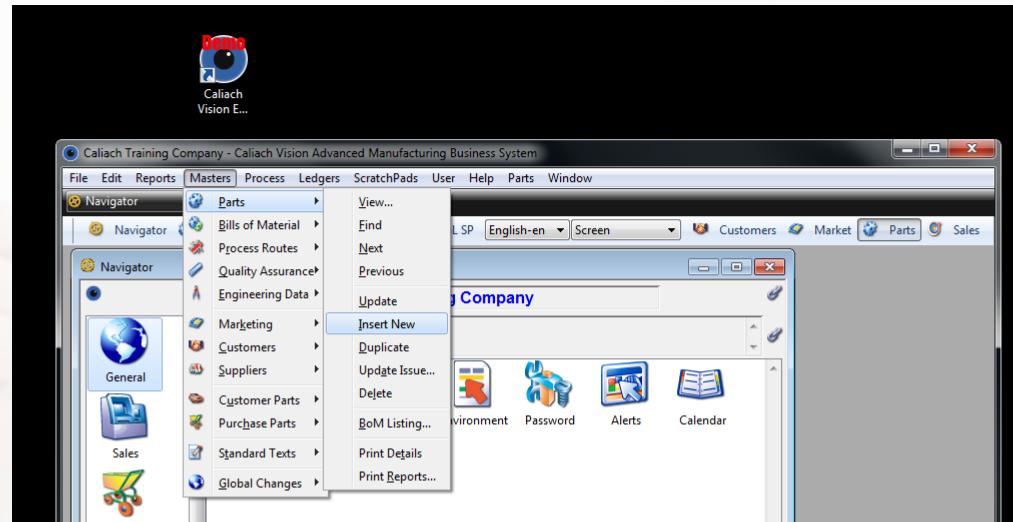




Check your customers by clicking “Cust SP”

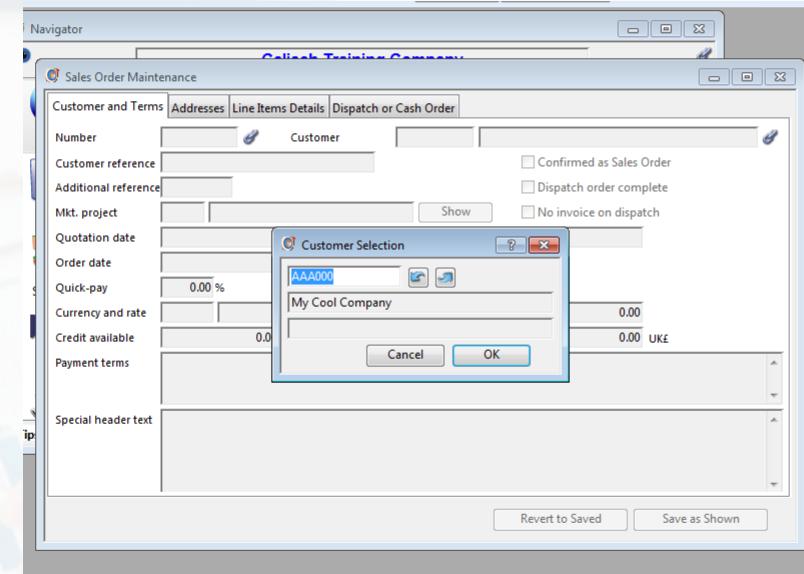
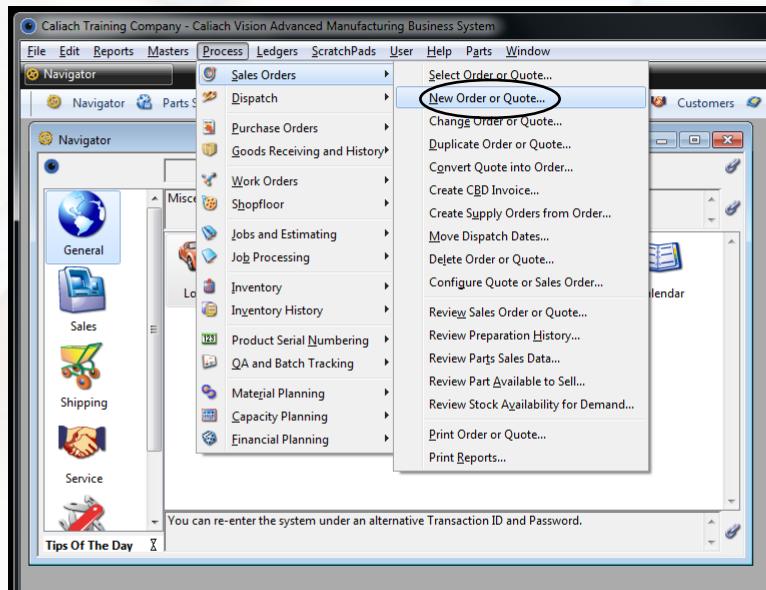


**Task 2: Create your own scenario**  
– make a new part, create a new order for a customer and dispatch it



# Enter a new part

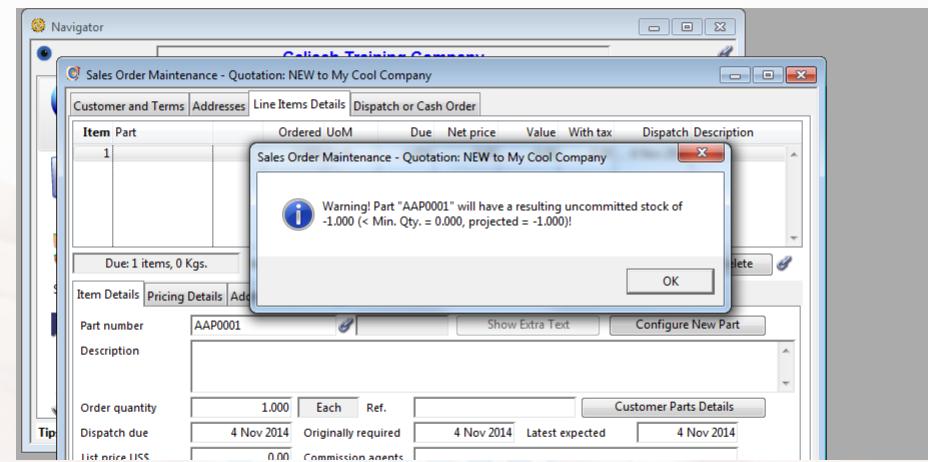
A diagram illustrating the process of entering a new part. On the left, a 'Part Maintenance' dialog box is shown. It has tabs for Characteristics, Planning, Storage, Costs, Selling, Ledgers, Engineering, Texts, and Others. The 'Part number' field is set to 'AAP0001' and the 'Description' field is 'My Cool Part'. The 'Index code 1' field is 'OTHE' and 'Others'. The 'Index code 2' field is 'NEW' with the note 'New: due to plan, cost &amp; price'. The 'ABC class' field is 'E' and 'Part type' is 'A' (Automatic). The 'Stock UoM' is 'Each' and 'Last modified' is empty. Under 'Current Quantities', there are fields for Physical quantity, Alloc. to WOs, Due to SOs/Jobs, Due from W/POS, Projected stock, and Kitted in WIP, all showing 0.000. The 'Period Usage' section shows usage for period 1 (0.000) and period 2 (0.000). At the bottom, there are buttons for 'Next and Previous by Part Number', 'Revert to Saved', 'Save as Shown', 'Cancel', and 'OK'. On the right, a screenshot of the Caliach Vision system interface is shown. It features a 'Navigator' bar with icons for General, Sales, Shipping, Service, and a calculator. The 'Parts' icon is highlighted. The main area shows a 'Miscellaneous functions' section with icons for Log out, Messages, and a calculator. A 'Parts ScratchPad' window is open, showing a table of parts. The table has columns for Part number, Description, and Index. The data in the table is: Part number AAP0001, Description My Cool Part, and Index OTHE. A red arrow points from the 'Parts SP' button in the 'Navigator' bar of the ScratchPad window to the 'Parts' ScratchPad window.



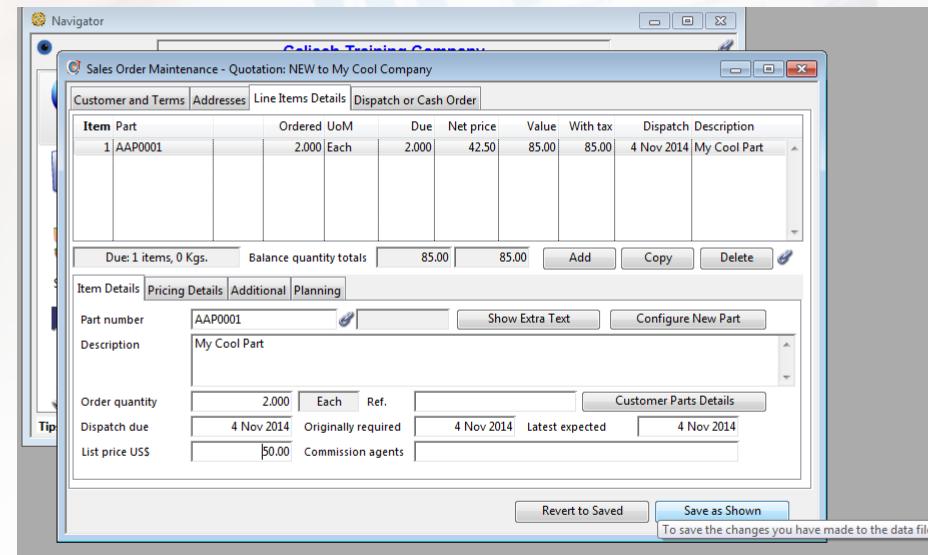
# Enter a new quote

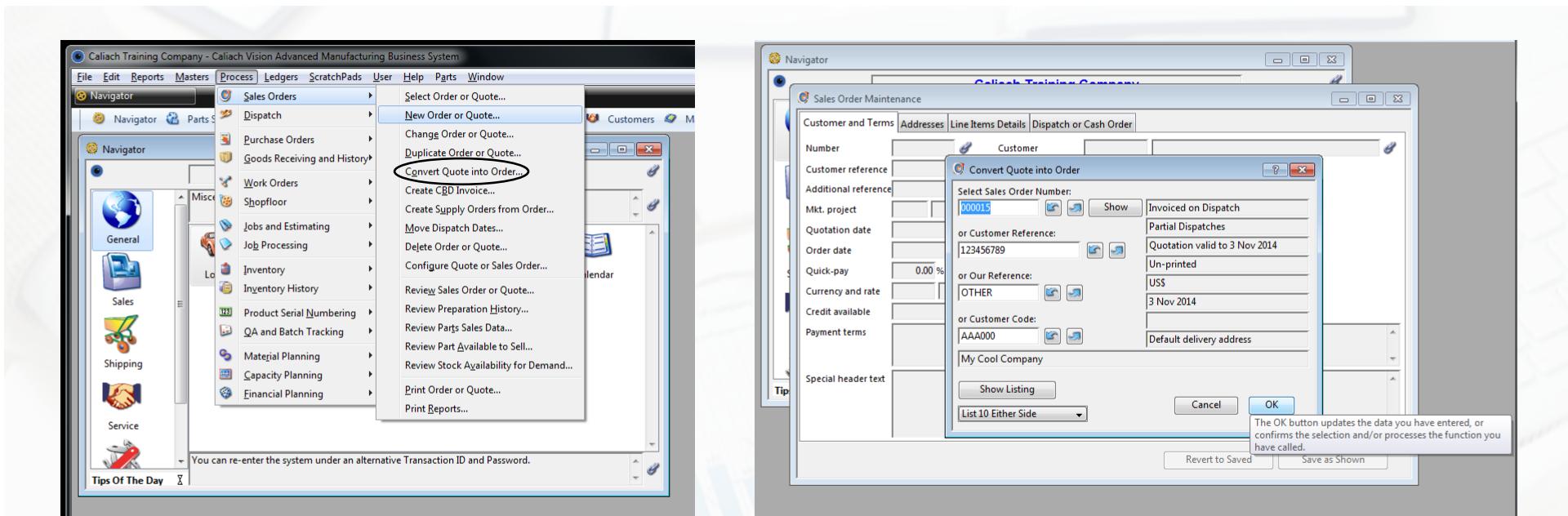
The screenshot shows the Sales Order Maintenance window with the 'Customer and Terms' tab selected. The customer 'AAA000' and 'My Cool Company' are selected. Other fields include Customer reference (123456789), Additional reference (OTHER), Mkt. project, Quotation date (3 Nov 2014), Order date, Quick-pay (0.00 %), Currency and rate (US\$ 1.9), Credit available (0.00 UKE), Payment terms (Payment Net 30 days), and Special header text. There are checkboxes for 'Confirmed as Sales Order', 'Dispatch order complete', and 'No invoice on dispatch'. Buttons for 'Revert to Saved' and 'Save as Shown' are at the bottom.

The screenshot shows the Sales Order Maintenance window with the 'Line Items Details' tab selected. A tooltip on the 'Add' button explains: 'This will create a new (normally blank) record in the file. You will then be able to enter details for the record. Then confirm with an OK or Save, or abandon the New record with a Cancel or Revert.' The main window shows columns for Item, Part, Ordered UoM, Due, Net price, Value, With tax, and Dispatch Description. Buttons for 'Add', 'Copy', and 'Delete' are at the bottom. Other tabs include 'Customer and Terms', 'Addresses', and 'Dispatch or Cash Order'. Fields for Item Details, Pricing Details, Additional, and Planning are also visible.

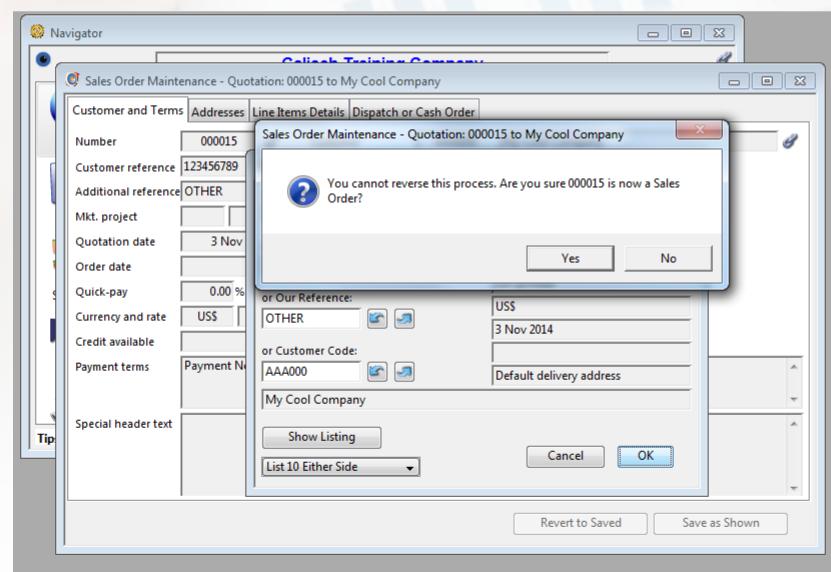


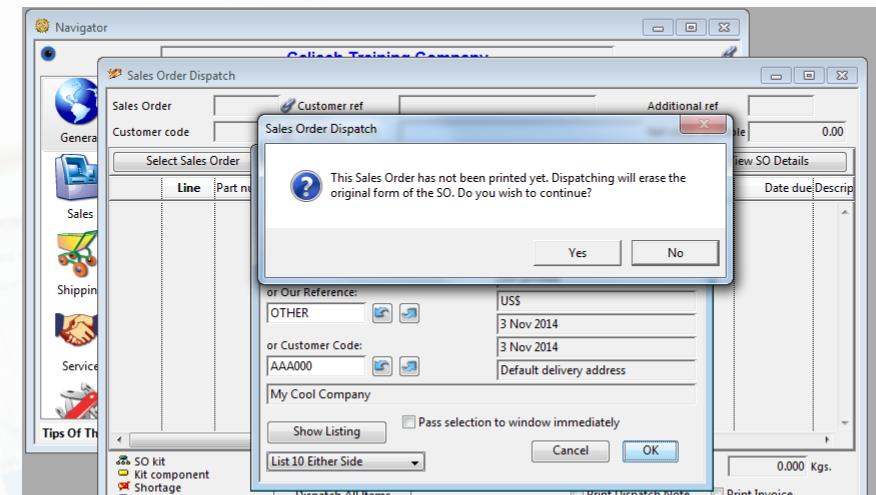
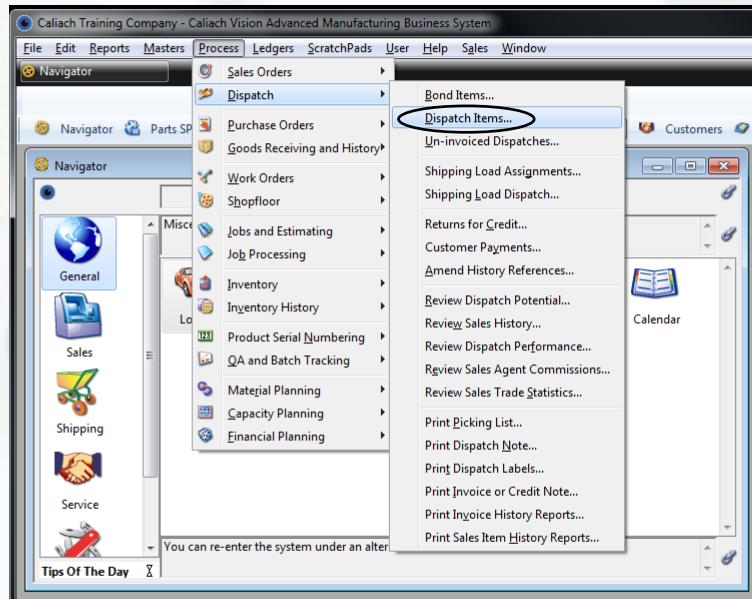
# Complete the quote



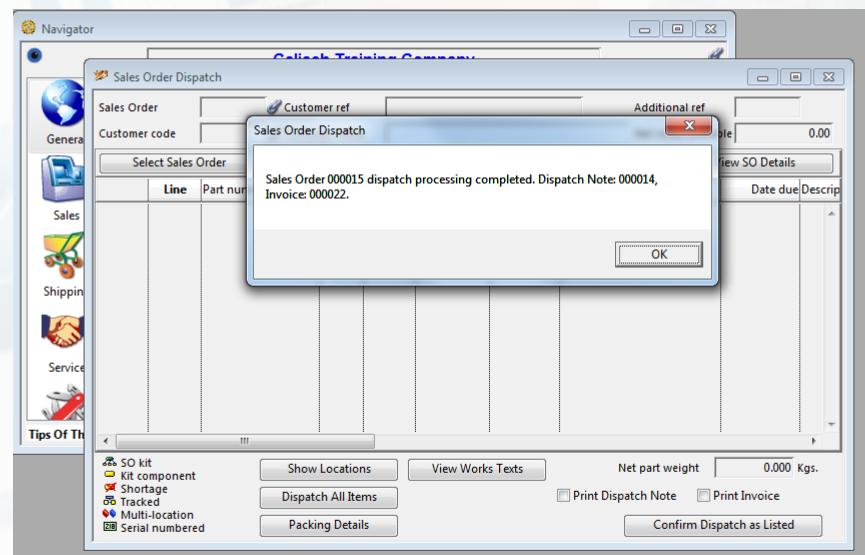
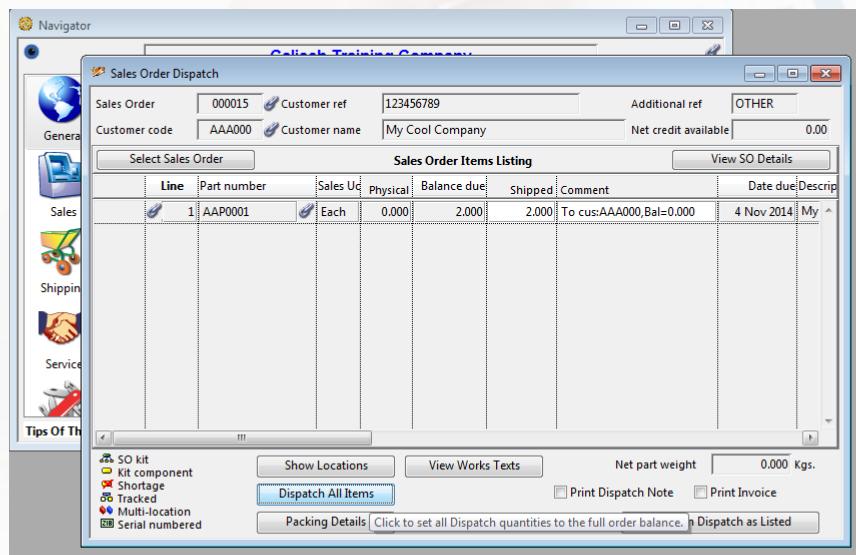


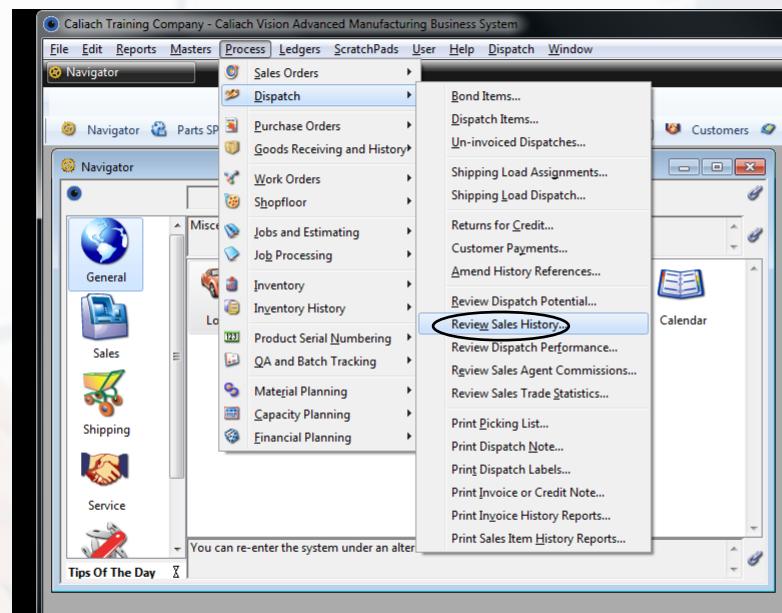
# Convert the quote into an order





# Dispatch the order



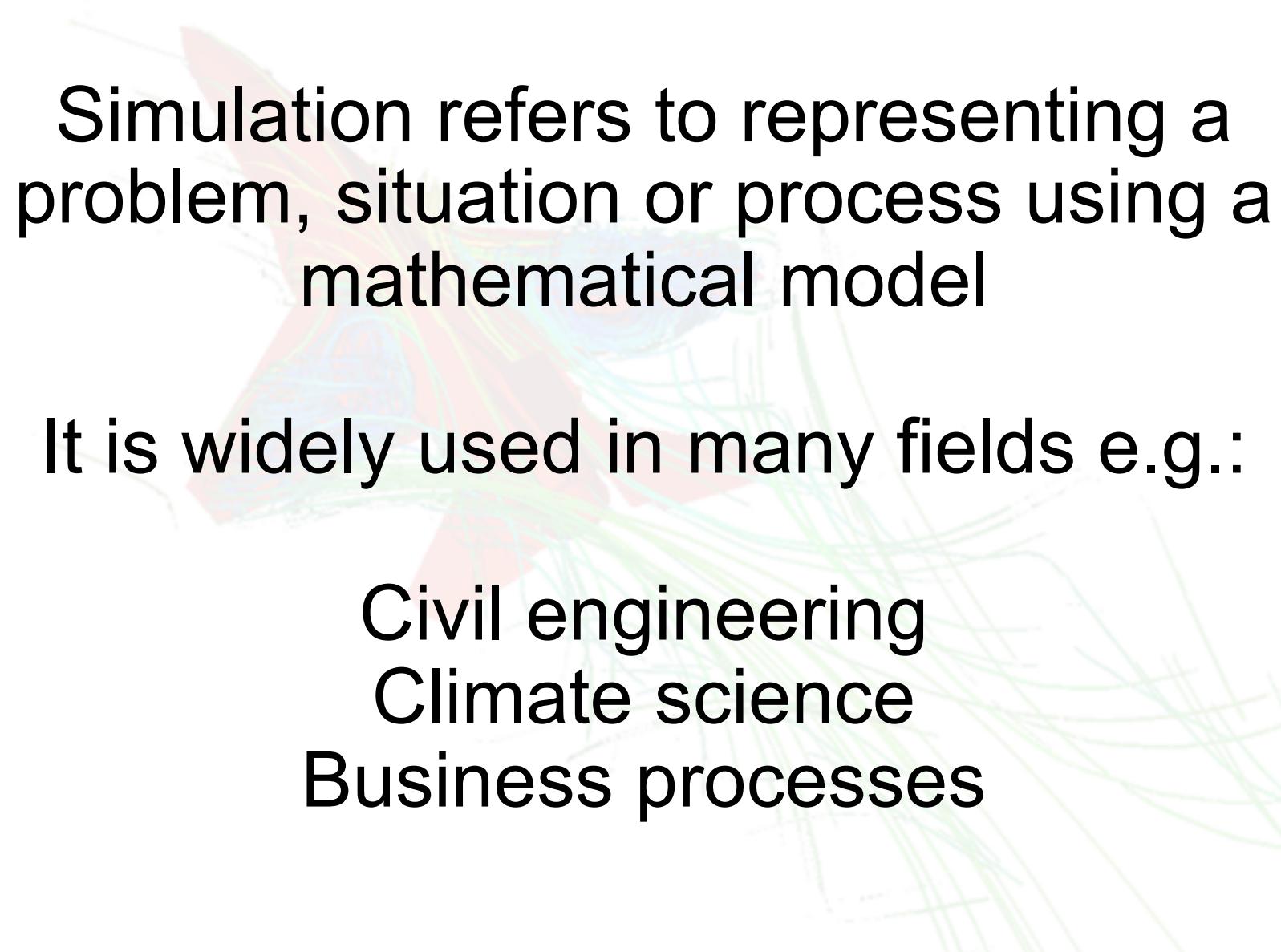


# Review Sales History

The screenshot shows the 'Customer ScratchPad' (Cust SP) window active. The 'Sales History List' window is open, displaying a table of sales data for 'My Cool Company'. The table includes columns for Delivery Date, Customer, Part number, Quantity, UoM, Cur., Price, Disc %, UKE Net, UKE Value, Margin, SO, Invoice, Li., and Disp. The data shows a single entry for 3 Nov 2014, part number AAP001, quantity 2.000, each, U.S. dollars (US\$), price 50.00, discount 15.00, net 22.37, value 44.74, margin -123.5, SO 000015, Invoice 000012, and Disp 1.00.

## 2) ExtendSim9

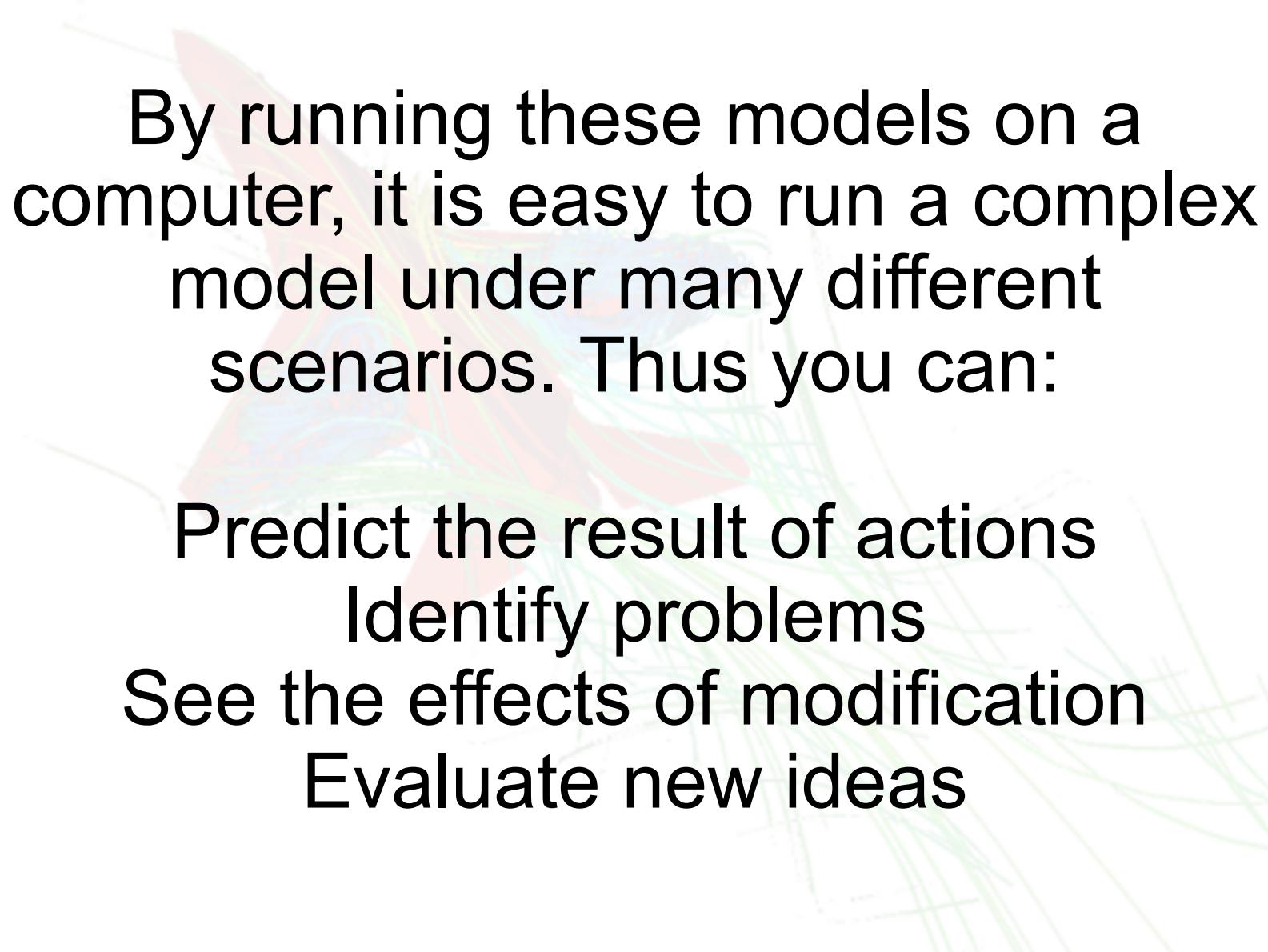
What is Simulation?



Simulation refers to representing a problem, situation or process using a mathematical model

It is widely used in many fields e.g.:

Civil engineering  
Climate science  
Business processes



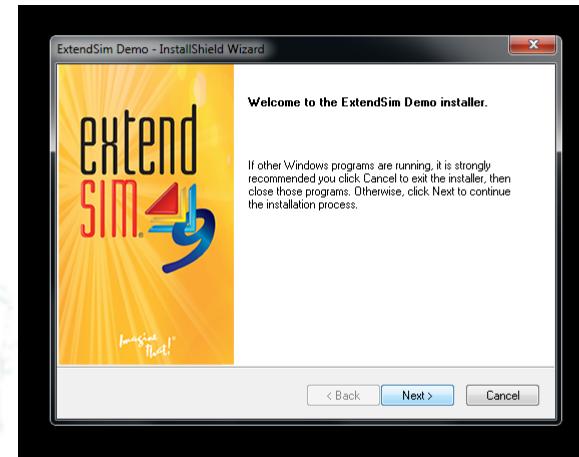
By running these models on a computer, it is easy to run a complex model under many different scenarios. Thus you can:

Predict the result of actions  
Identify problems

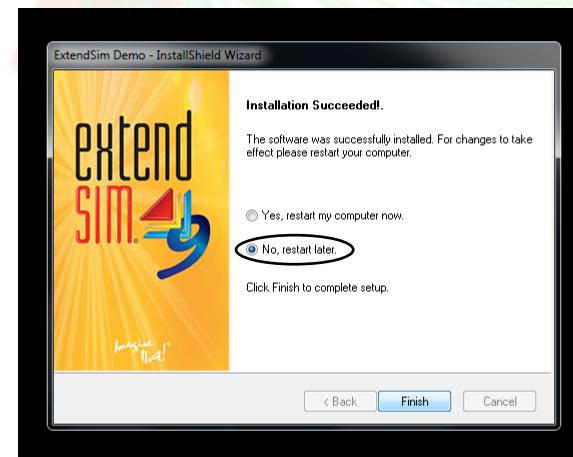
See the effects of modification  
Evaluate new ideas

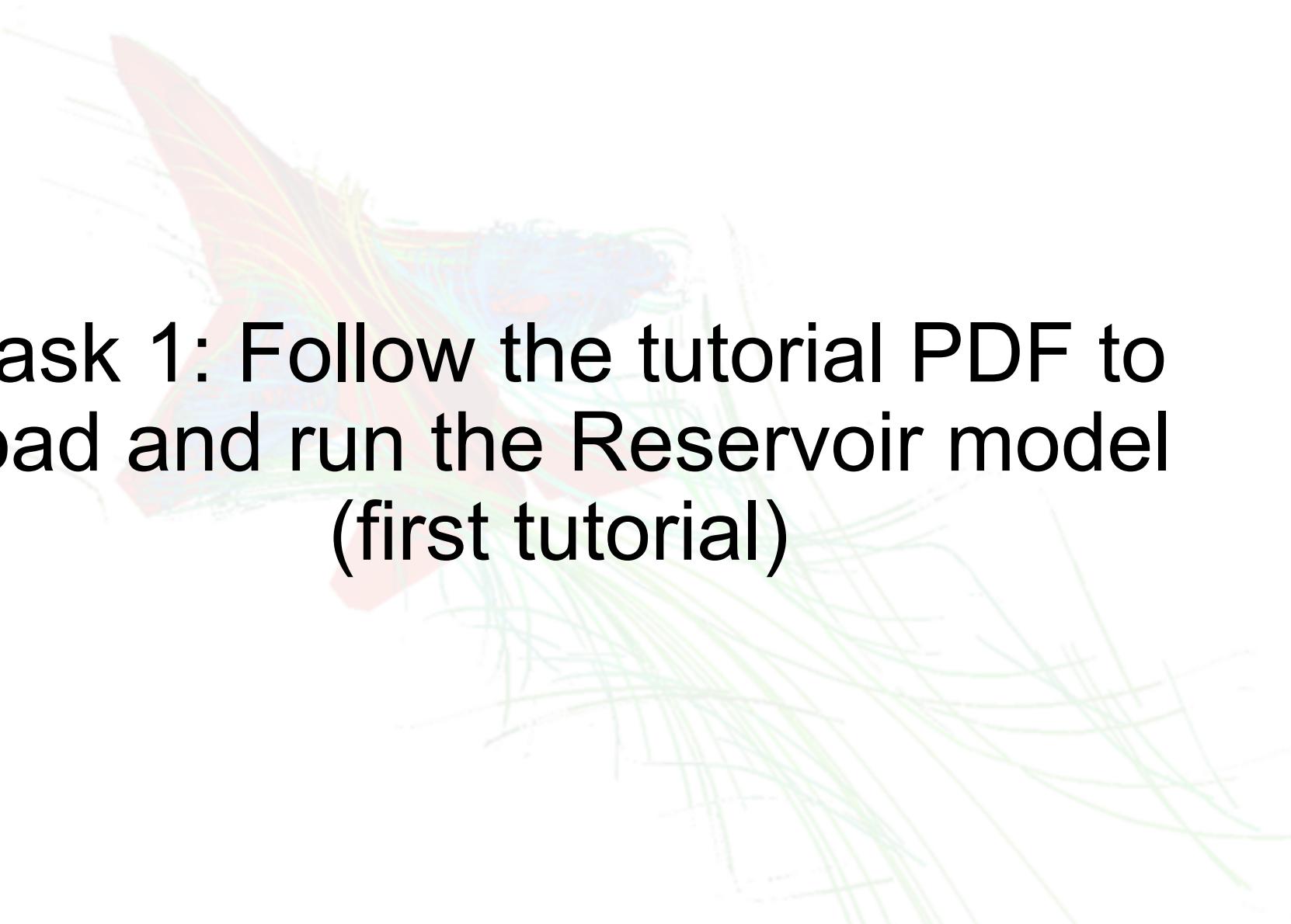
# Using ExtendSim

The screenshot shows the L@PU LEARN@POLYU website. The top navigation bar includes the L@PU logo and the POLYTECHNIC UNIVERSITY logo. The main content area is titled 'Labs' and contains a link to 'ExtendSim 9 Demo (Windows)'. The left sidebar shows a navigation tree with 'COMP5133\_20141\_A (Information Systems and E-commerce Strategy)' expanded, and 'Home Page' and 'Information' links.

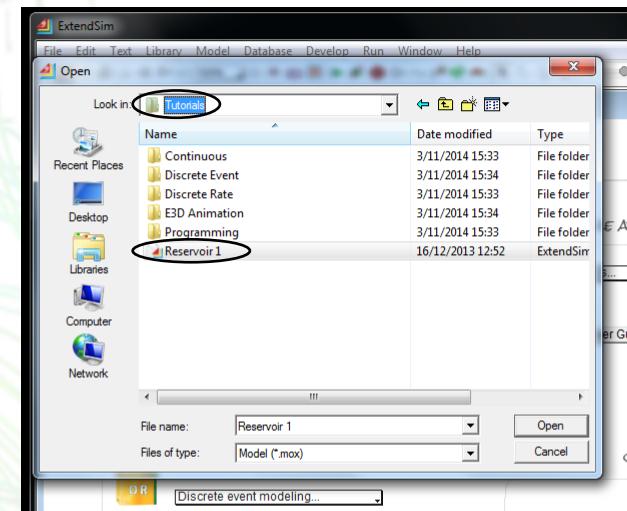
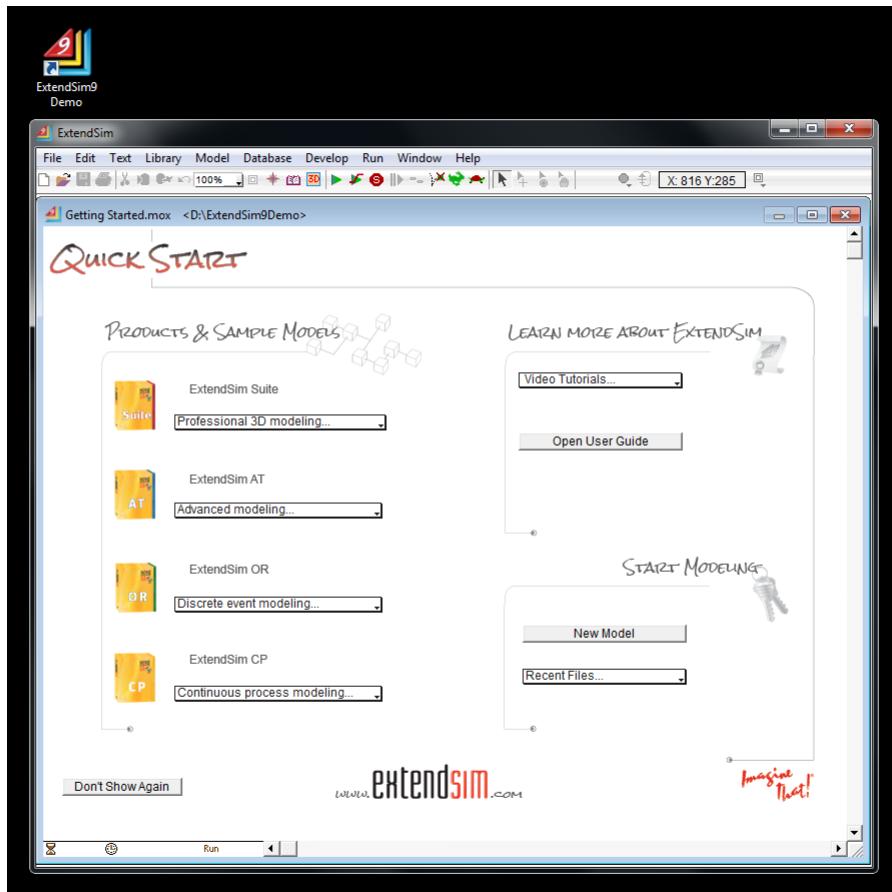


# Download and install





**Task 1: Follow the tutorial PDF to  
load and run the Reservoir model  
(first tutorial)**

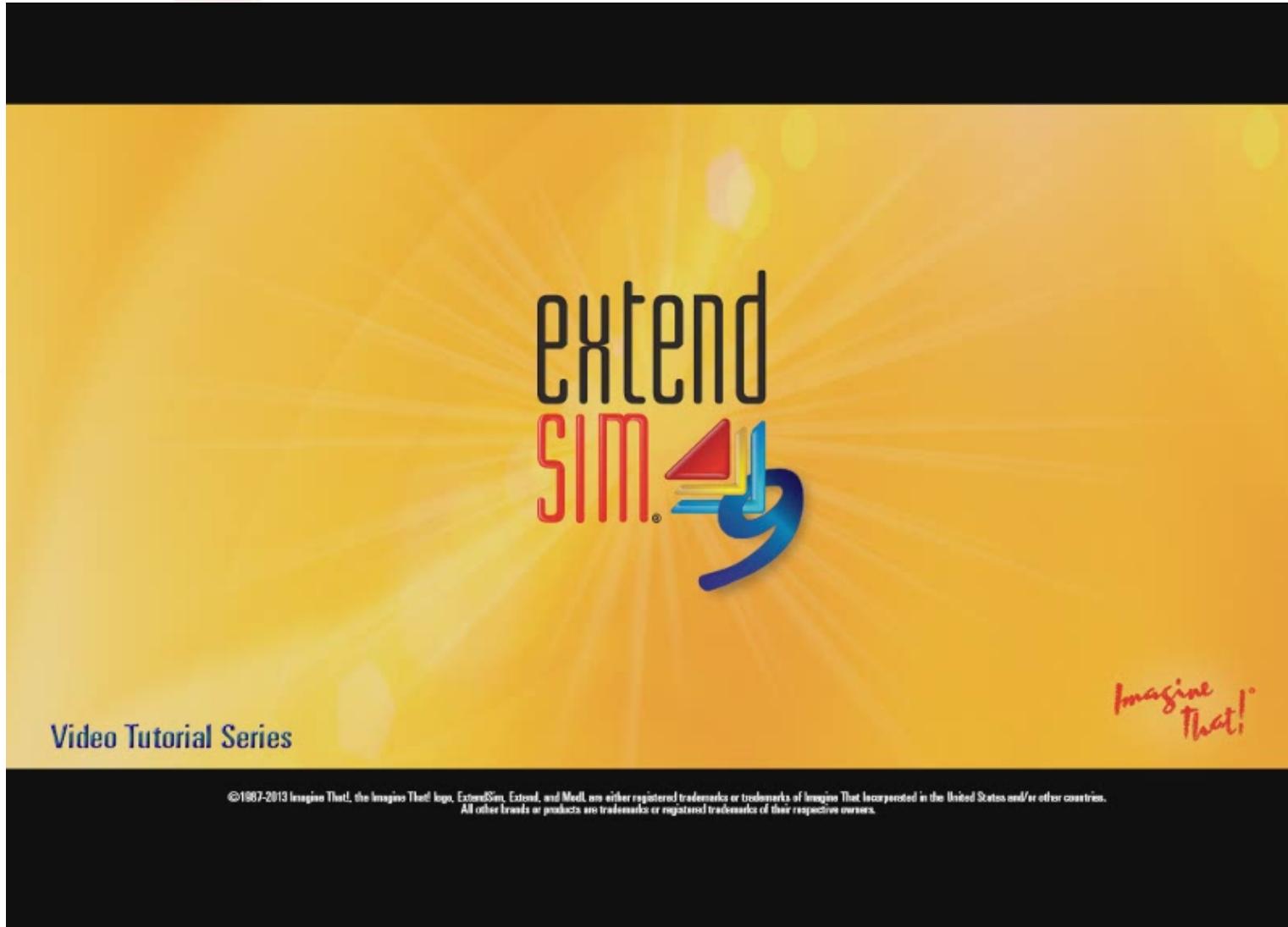


# Load the Reservoir model

## Task 2: Create your own model with different output

*Note: You can use the Reservoir model and change some values/ blocks/links to get different output*

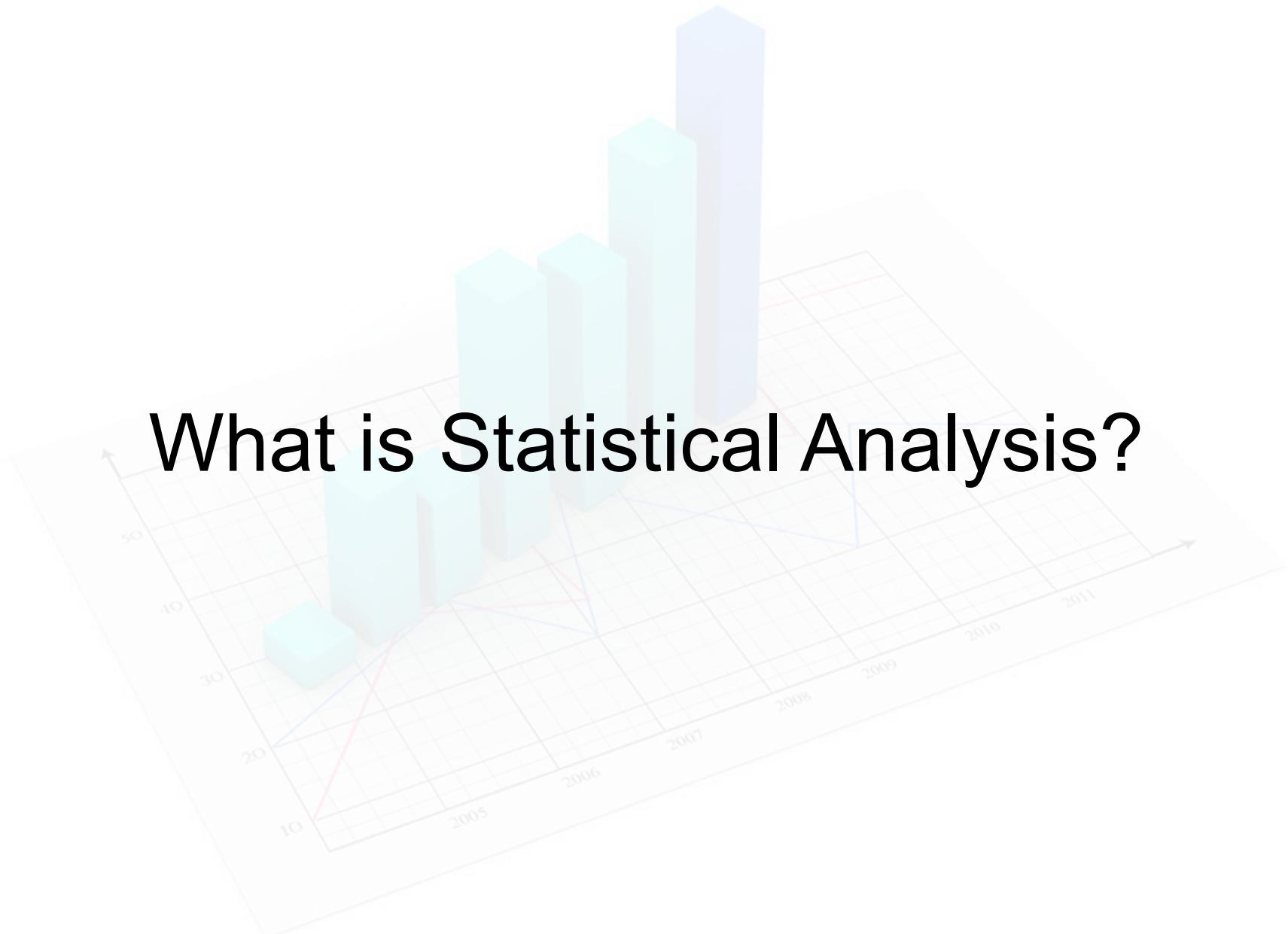
# Creating a model in ExtendSim

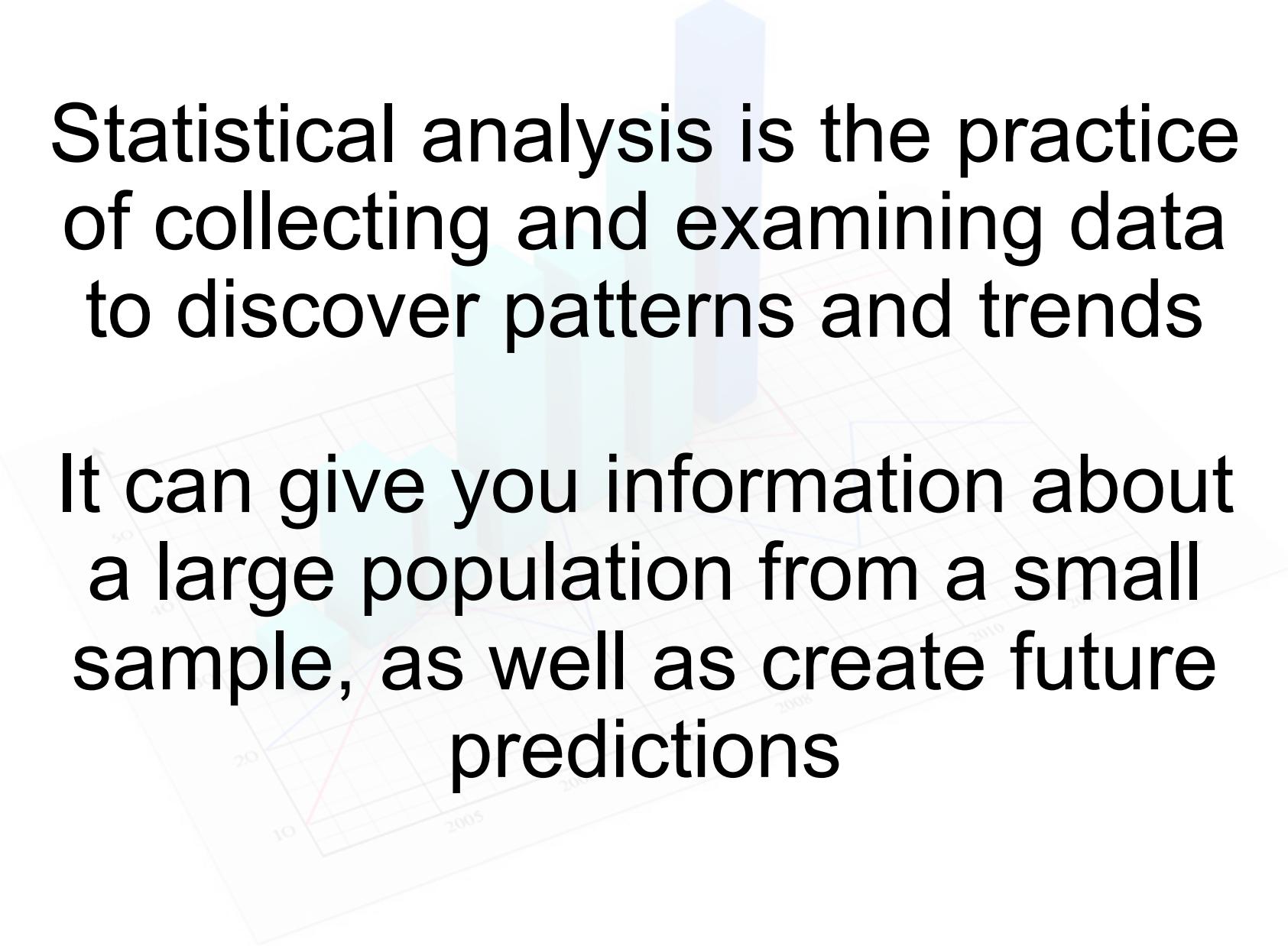


Video Tutorial Series

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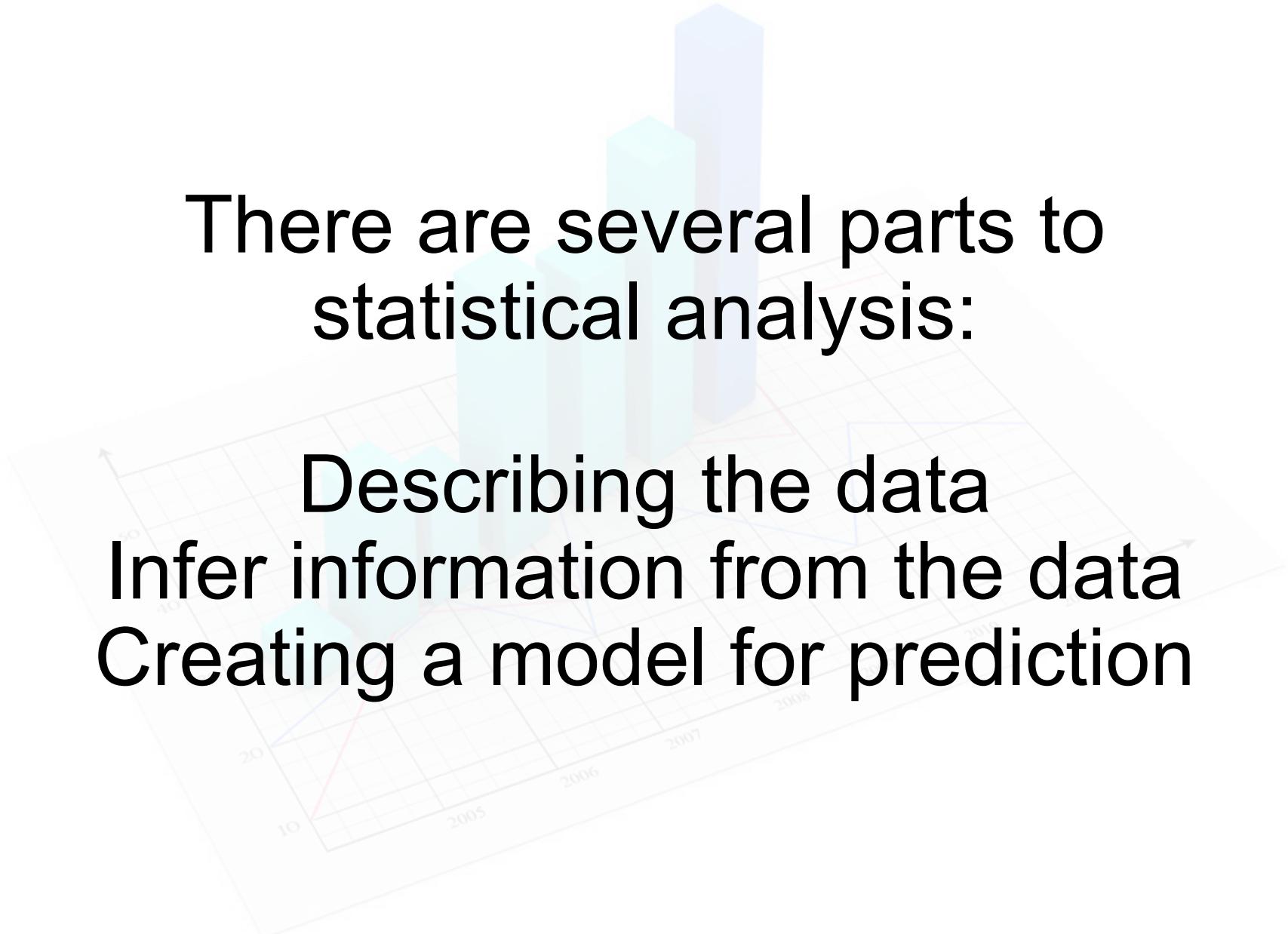
# What is Statistical Analysis?





Statistical analysis is the practice of collecting and examining data to discover patterns and trends

It can give you information about a large population from a small sample, as well as create future predictions

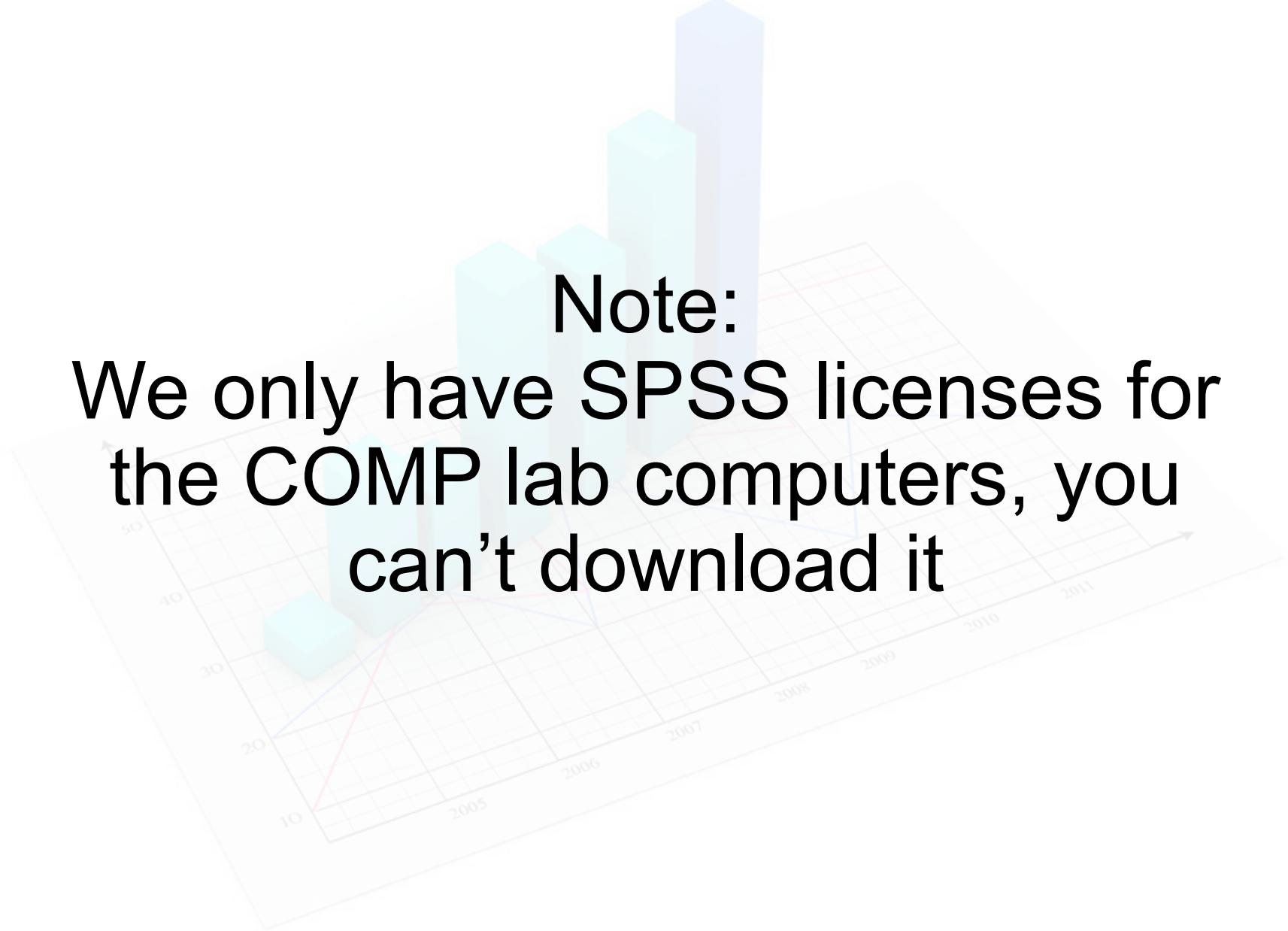


There are several parts to statistical analysis:

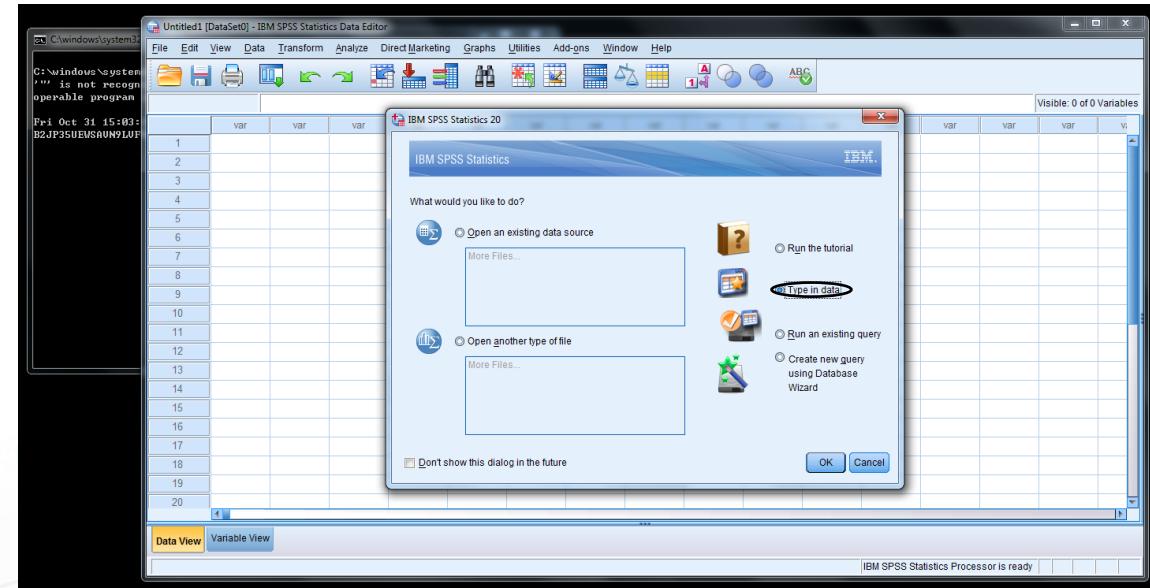
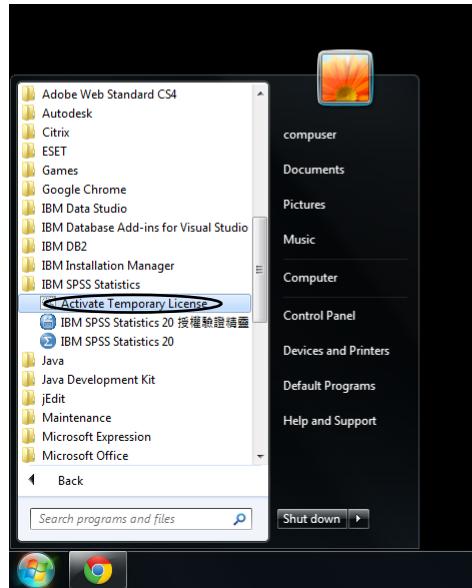
Describing the data  
Infer information from the data  
Creating a model for prediction

# SPSS: Statistical Package for the Social Sciences

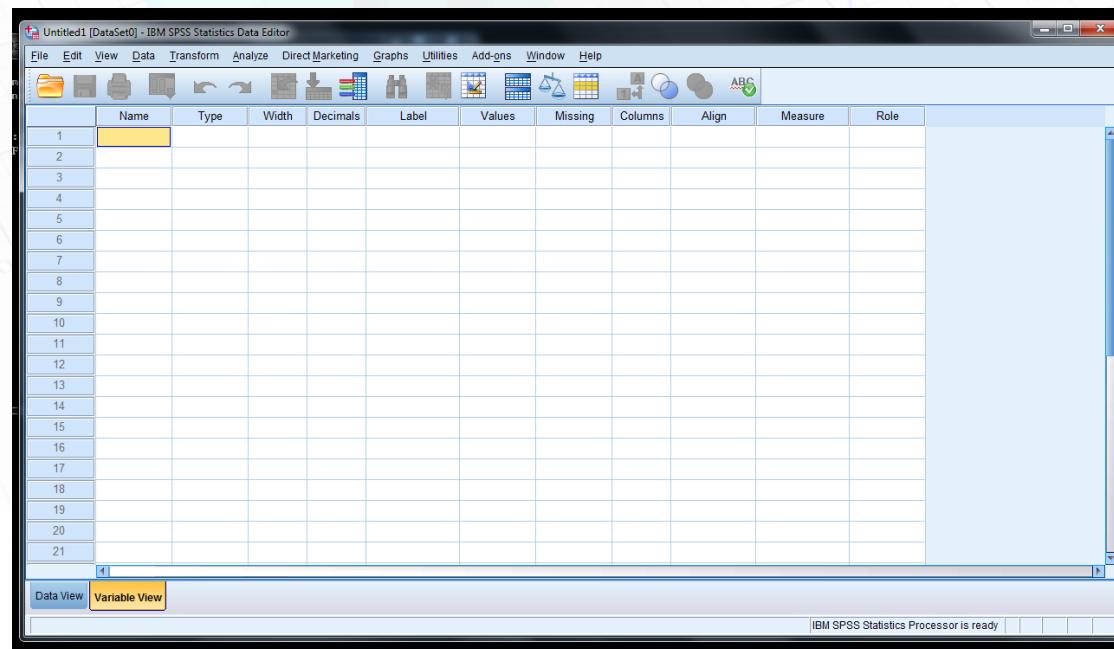
It is a commonly used statistical analysis program (not just for social sciences)



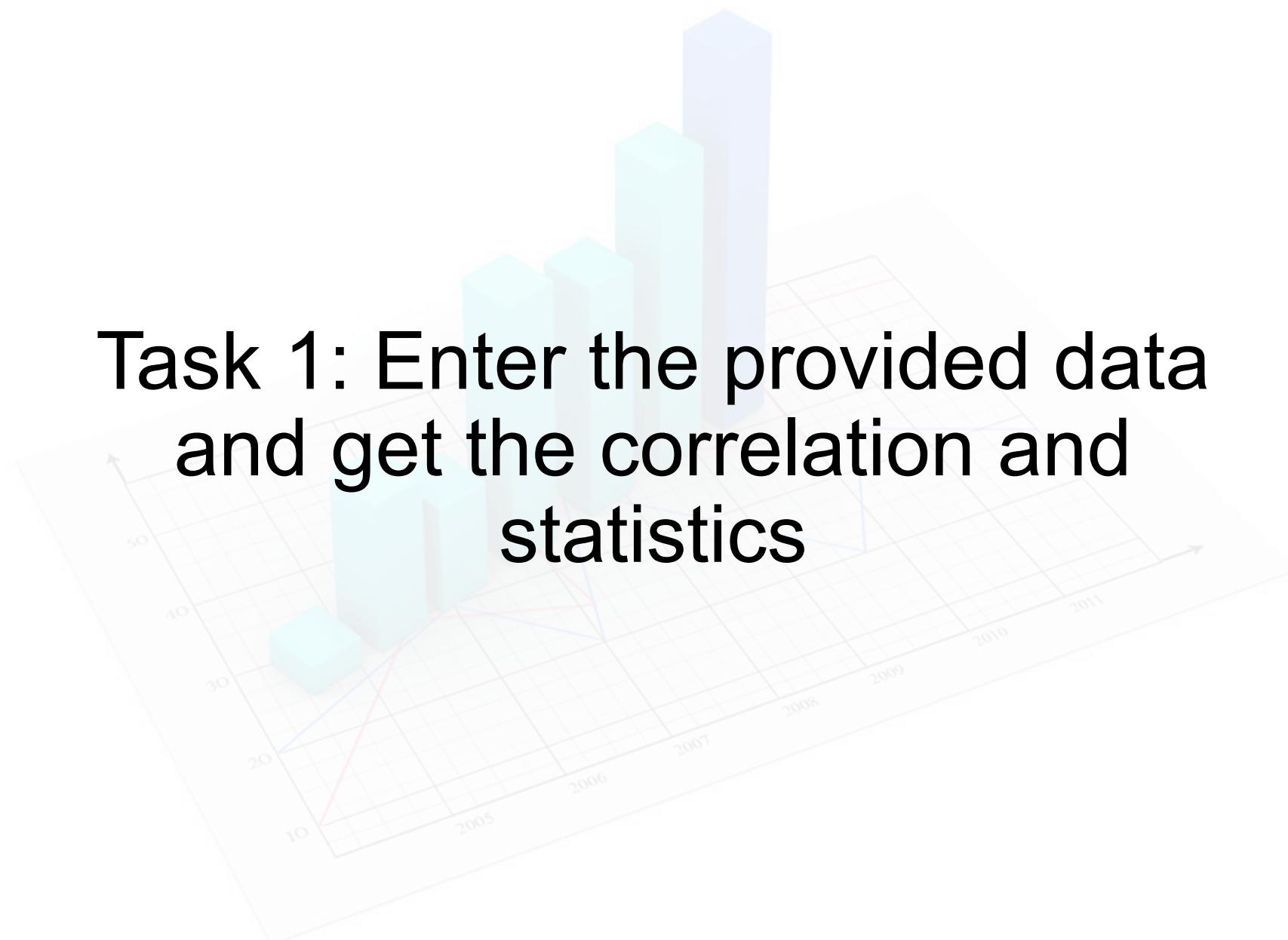
**Note:**  
We only have SPSS licenses for  
the COMP lab computers, you  
can't download it



# Load SPSS



Task 1: Enter the provided data  
and get the correlation and  
statistics



The screenshot shows the IBM SPSS Statistics Processor interface. The menu bar includes File, Edit, View, Data, Transform, Analyze, Direct Marketing, Graphs, Utilities, Add-ons, Window, and Help. The toolbar contains various icons for file operations, data manipulation, and analysis. The main area displays the Variable View table. The table has columns for Name, Type, Width, Decimals, Label, Values, Missing, Columns, Align, Measure, and Role. The variables listed are:

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1	StudentId	Numeric	8	0	Student ID	None	None	8	Right	Scale	Input
2	Income	Numeric	8	0		None	None	8	Right	Scale	Input
3	Noise	Numeric	8	0		None	None	8	Right	Scale	Input
4	Furniture	Numeric	8	0		None	None	8	Right	Scale	Input
5	StudyArea	Numeric	8	0	Study Area	None	None	8	Right	Scale	Input
6	Safety	Numeric	8	0		None	None	8	Right	Scale	Input
7	Privacy	Numeric	8	0		None	None	8	Right	Scale	Input
8											
9											
10											
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21											

At the bottom, the tabs 'Data View' and 'Variable View' are shown, with 'Variable View' being the active tab. A status bar at the bottom right indicates 'IBM SPSS Statistics Processor is ready'.

Input the above values into Variable View

Visible: 7 of 7 Variables

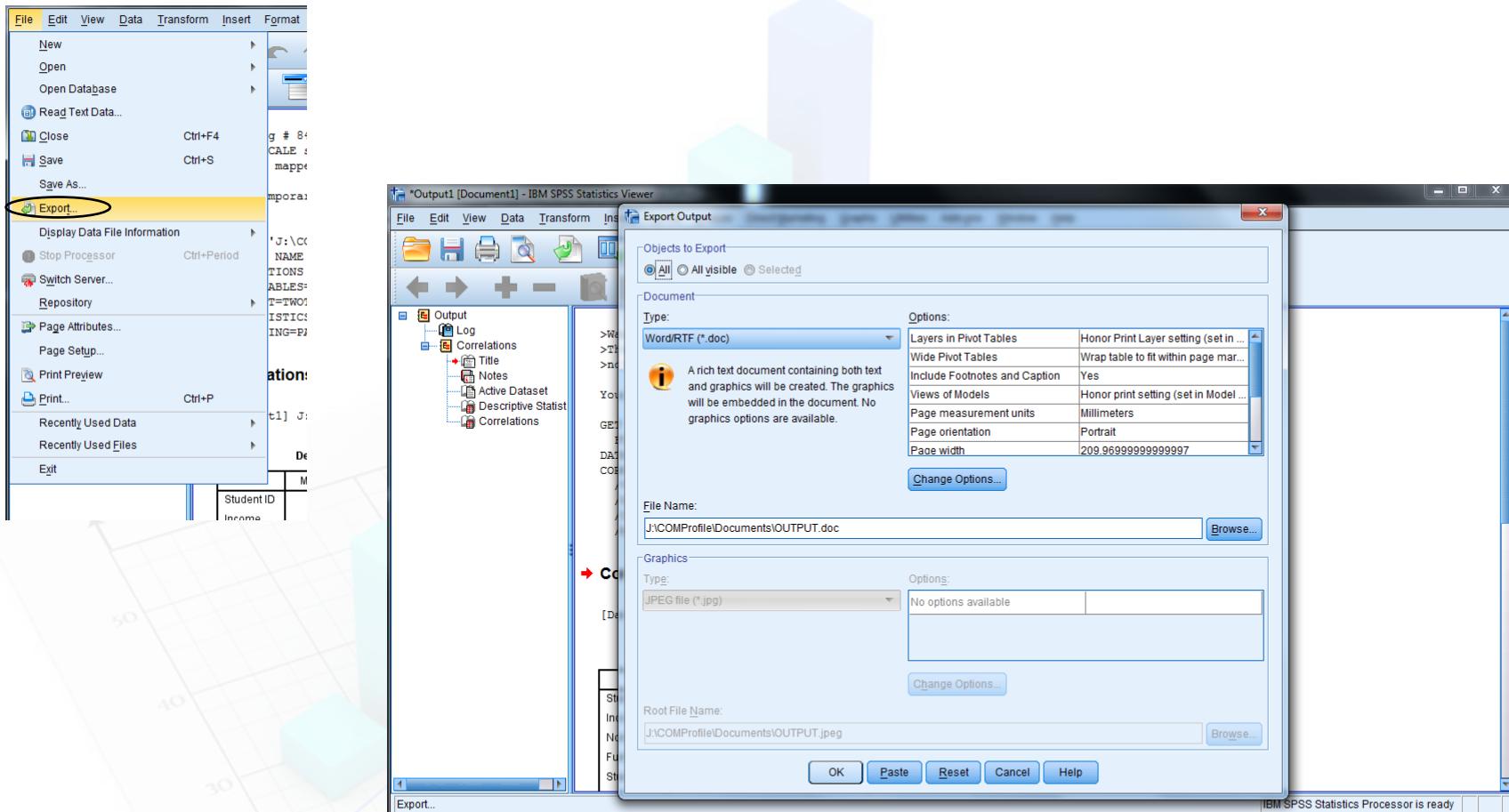
	StudentId	Income	Noise	Furniture	StudyArea	Safety	Privacy	var									
1	1	19	5	5	4	5	5										
2	2	39	3	3	5	5	4										
3	3	55	2	1	2	2	2										
4	4	25	5	3	4	4	5										
5	5	75	1	2	2	1	2										
6	6	95	1	1	1	1	1										
7	7	47	3	2	4	3	3										
8	8	28	4	4	5	4	4										
9	9	120	2	2	1	1	1										
10	10	35	3	4	5	4	4										
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Input the above values into Data View

The screenshot shows the SPSS interface. On the left, a data view window displays a table with columns 'StudentId' and 'Income' for 20 rows. The 'Analyze' menu is open, and the 'Correlate' submenu is expanded, with 'Bivariate...' highlighted and circled in yellow. On the right, a 'Bivariate Correlations' dialog box is open. It lists variables: Privacy, Income, Noise, Furniture, StudyArea, and Safety. Under 'Correlation Coefficients', 'Pearson' is checked. Under 'Test of Significance', 'Two-tailed' is selected. The 'OK' button is highlighted with a blue circle.

# Calculate statistics

The screenshot shows the 'Bivariate Correlations: Options' dialog box. Under the 'Statistics' section, 'Means and standard deviations' is checked and circled in yellow. Other options like 'Cross-product deviations and covariances' are unchecked. Under 'Missing Values', 'Exclude cases pairwise' is selected. The 'OK' button is highlighted with a blue circle.



# Export results

Task 2: Explain the meaning of your results (i.e. mean, standard deviation and correlation)

Finally, on the group report  
please write down **which**  
**exercise** your group will  
complete

1. ERP with CalVision
2. Simulation with ExtendSim
3. Statistics with SPSS

thanks !