



GE1202

Managing Your Personal Finance

Lecture 1
Introduction to Personal Finance
Management



Who Need to Know Personal Finance Planning?

- Every person has some money available
- Most people want to handle their finances so that they get full satisfaction from each available dollar
- Financial Goals
 - Buying a new car or getting a larger home
 - Pursuing advanced career training
 - Contributing to charity
 - Traveling extensively
 - Ensuring self-sufficiency during working and retirement years
 - Holding a fantastic wedding party

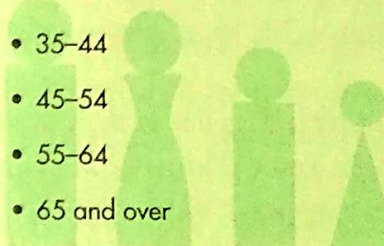

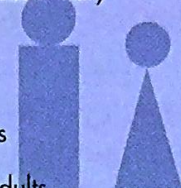
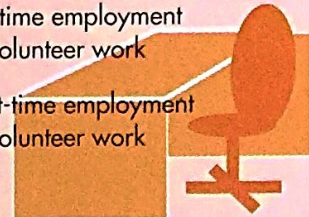


Financial Planning

- As we have limited money, it is impossible to have all the goals to be realized
- To achieve these goals, you need to identify and set priorities.
- The process of managing your money to achieve personal economic satisfaction
 - ***Personal money management*** or ***Personal financial planning***
- Financial decision must be planned to meet the unique situation facing each person.
 - People in their 20s spend differently from those in their 50s
 - Life situation/style — **Adult Life Cycle**

Adult Life Cycle

Life Situation Factors Affect Financial Planning Activities

Age	Marital Status	Number and Age of Household Members	Employment Situation
<ul style="list-style-type: none">• 18–24• 25–34• 35–44• 45–54• 55–64• 65 and over 	<ul style="list-style-type: none">• single• married• separated/divorced• widowed 	<ul style="list-style-type: none">• no other household members• preschool children• elementary and secondary school children• college students• dependent adults• nondependent adults 	<ul style="list-style-type: none">• full-time student• not employed• full-time employment or volunteer work• part-time employment or volunteer work 

TIME TO TAKE ACTION . . . COMMON FINANCIAL GOALS AND ACTIVITIES

<ul style="list-style-type: none">• Obtain appropriate career training.	<ul style="list-style-type: none">• Accumulate an appropriate emergency fund.	<ul style="list-style-type: none">• Evaluate and select appropriate investments.
<ul style="list-style-type: none">• Create an effective financial recordkeeping system.	<ul style="list-style-type: none">• Purchase appropriate types and amounts of insurance coverage.	<ul style="list-style-type: none">• Establish and implement a plan for retirement goals.
<ul style="list-style-type: none">• Develop a regular savings and investment program.	<ul style="list-style-type: none">• Create and implement a flexible budget.	<ul style="list-style-type: none">• Make a will and develop an estate plan.

If this is your Life Situation, you should . . .**Specialized Financial Activities**

Young, single (18–35)

- Establish financial independence.
- Obtain disability insurance to replace income during prolonged illness.
- Consider home purchase for tax benefit.

Young couple with children under 18

- Carefully manage the increased need for the use of credit.
- Obtain an appropriate amount of life insurance for the care of dependents.
- Use a will to name guardian for children.

Single parent with children under 18

- Obtain adequate amounts of health, life, and disability insurance.
- Contribute to savings and investment fund for college.
- Name a guardian for children and make other estate plans.

Young dual-income couple, no children

- Coordinate insurance coverage and other benefits.
- Develop savings and investment program for changes in life situation (larger house, children).
- Consider tax-deferred contributions to retirement fund.

Older couple (50+), no dependent children at home

- Consolidate financial assets and review estate plans.
- Consider household budget changes several years prior to retirement.
- Plan retirement housing, living expenses, recreational activities, and part-time work.

Mixed-generation household (elderly individuals and children under 18)

- Obtain long-term health care insurance and life/disability income for care of younger dependents.
- Use dependent care service if needed.
- Provide arrangements for handling finances of elderly if they become ill.
- Consider splitting of investment cost, with elderly getting income while alive and principal going to surviving relatives.

Older (50+), single

- Arrange for long-term health care coverage.
- Review will and estate plan.
- Plan retirement living facilities, living expenses, and activities.



Financial Planning

- **Financial Plan**

- A formalized report that summarize your current situation, analyzes your financial needs, and recommends future financial activities.

- **Advantages of effective personal financial planning**

- Increased effectiveness in obtaining, using, and protecting your financial resources throughout your life
- Increased control of your financial affairs by avoiding excessive debt, bankruptcy, and dependence on others
- Improved personal relationships resulting from well-planned and effectively communicated financial decisions
- A sense of freedom from financial worries obtained by looking to the future, anticipating expenses, and achieving personal economic goals



Goal-Setting Guidelines

- Financial goals should take a **SMART** approach.
 - **S**pecific — know exactly what your goals are and can create a plan to achieve those objectives
 - **M**easurable — can be measured by a specific amount
 - **A**ction oriented — provide the basis for the personal financial activities you will undertake.
 - **R**ealistic — involve goals based on your income and life situation
 - **T**ime based — indicate a time frame for achieving the goal



Which is *SMARTer*?

- A fresh graduate just starts his career as a secondary school teacher.
- Plan A: Buy a flat in Kowloon Tong by 30.
- Plan B: Put \$5,000 into the saving account each month for 8 years as the down payment for a flat of \$6M in Kowloon Bay.

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Types of Financial Goal

- There are 3 different financial goals
 - **Consumable–Product Goals**
 - Food, clothing, entertainment
 - **Durable–Product Goals**
 - “Big ticket” items like appliances and cars
 - **Intangible–Product Goals**
 - Health, education, relationships, service



Types of Financial Goal

- There are 3 different time frames for achieving financial goals
 - **Short term goals**
 - Will be achieved within the next year
 - Saving for a vacation, buying a new phone
 - **Intermediate goals**
 - Two to five years
 - Further study, Wedding
 - **Long term goals**
 - More than five years
 - Retirement, children's education expenses



Components of Personal Financial Planning

- There are Eight major personal financial planning areas
 - Obtaining — the receipt of income and other financial resources
 - Planning — actions to determine future financial directions
 - Saving — set aside funds for expected and unexpected expenses
 - Borrowing — appropriate use of short-and-long-term credit plans
 - Spending — analysis of purchasing decisions for wise money use
 - Managing Risk — insurance and other methods to reduce financial uncertainty
 - Investing — accumulation of funds for long-term financial security
 - Retirement and Estate Planning — efforts to provide for post-career years and transfer of assets

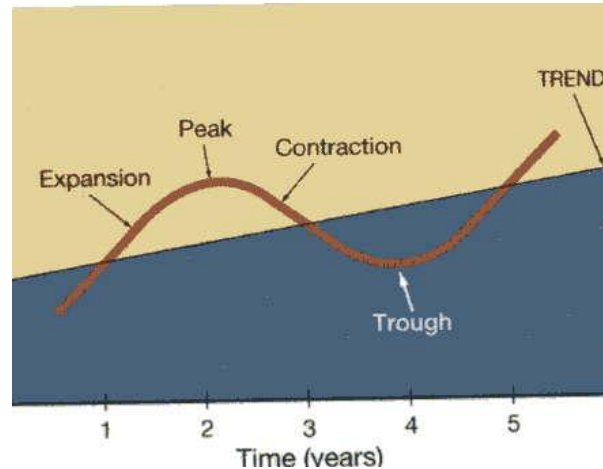
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Factors Influence Financial Decisions

- Personal factors
 - Age
 - Income
 - Household size
 - Personal beliefs
- General factors
 - Global economy
 - Inflation rate
 - Interest rate

Global Economy

- Economy influences financial planning
 - Phases of the business cycle: expansion, peak, contraction, trough (takes 4–5 years on average)



- Economics: the study of how wealth is created and distributed; strongly influences financial planning
- Decisions made by *Central Banks* (e.g., interest rates, money supply)

Inflation

- Inflation is a rise in the *general price level*
- The general price level is measured by the Consumer Price Index (CPI)
- CPI is the weighted average of the prices of a **fixed** basket of goods and services

$$CPI = \frac{\text{Cost of the basket in the current year}}{\text{Cost of the basket in the base year}} \times 100$$

- Inflation rate is the % change in the CPI

$$\text{Inflation \%} = \frac{CPI_{\text{current year}} - CPI_{\text{base year}}}{CPI_{\text{base year}}} \times 100\%$$

Inflation

Product	Price in 2015	Quantity in 2015	Price in 2016	Quantity in 2016
iphone	\$1000	10	\$1100	12
iMac	\$2000	5	\$2500	6
ipod	\$500	4	\$550	3

- $CP_{2015} = \frac{\text{Total Cost in 2015}}{\text{Total Cost in 2015}} \times 100 =$

- $CP_{2016} = \frac{\text{Total Cost in 2016}}{\text{Total Cost in 2015}} \times 100 =$

- $Inflation \% = \frac{CP_{2016} - CP_{2015}}{CP_{2015}} \times 100\% =$

Inflation

- Inflation erodes the purchasing power of money
 - The quantity of goods that can be bought with a sum of money reduces
- Examples:
 - How many apples can be bought with \$100 if each apple costs \$10?
 - How many apples can be bought with \$100 if each apple costs \$11?
 - You can buy 1 apple (10%) less when the price goes up by \$1 (10%) with the \$100

• $\text{Purchasing power of money} = \frac{\text{Nominal value of money}}{\text{Price level}}$

$$\% \Delta \text{ Real value} = \% \Delta \text{ Nominal value} - \text{Inflation\%}$$



Interest

- To maintain the purchasing power of money, you may invest them into *interest-yielding assets*.
- What is interest?
 - Lender — compensation for giving up earlier availability of resources
 - Borrower — cost of acquiring earlier availability of resources
 - Investor — return on financial investment
 - Interest on deposits
 - Interest on bonds
 - Dividend and capital gains from stocks

Interest

- Interest raises the nominal value of money
 - You get back \$110 a year later if you deposit \$100 into a bank which pays interest 10% p.a.
- Real value of money may increase, decrease or remain unchanged with interest during the time of inflation
 - You save \$100 into a deposit which gives interest 10% p.a. and the initial price level is 100

Inflation rate (π)	Nominal value	% Δ Nominal value	Real value	% Δ Real value
0%				
10%				
15%				



Time Value of Money

- Why do we need to pay interest?
- As people prefer early consumption to late, people place higher value on current consumption
- The dollar received today is worth more than a dollar that will be received one year from today



Time Value of Money

- *Compounding*

- The process of finding the **future value** from a current sum based on a certain interest rate and period of time
- If you put \$1000 into a bank deposit which offers an interest rate of 10% p.a., how much will you get after 10 years?

- *Discounting*

- The process of finding the **current value** from a future sum based on a certain interest rate and period of time
- How much do you need to put into your bank account which offers an interest rate of 10% p.a., how much will you get after 10 years?

Compounding

- If you put \$100 into your bank account for 3 years with an interest of 10%p.a., how much should you expect to get back?
- To find the future value of a ***Single*** amount

$$FV = PV(1 + i)^n$$

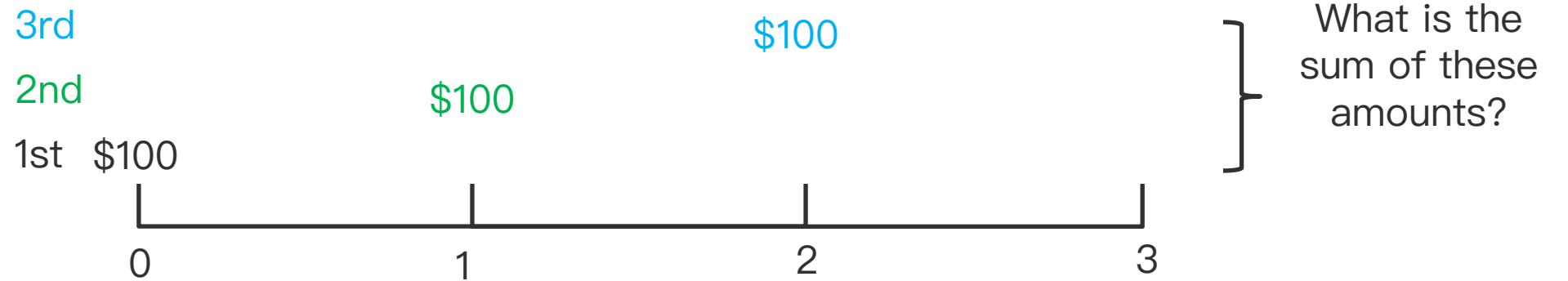
FV = Future Value; PV = Present Value; i = interest rate; n = time periods

Compounding

- If you put \$100 into your bank account *in the beginning* of each year for 3 years with an interest of 10%p.a., how much should you expect to get back?
- A stream of constant amount is called **Annuity**
- To find the future value of a **Series** of equal amounts

$$FV = Annuity \times \frac{(1 + i)^n - 1}{i} \times (1 + i)$$

Compounding



Compounding

- If you put \$100 into your bank account *at the end* of each year for 3 years with an interest of 10%p.a., how much should you expect to get back?

3rd

2nd

1st

\$100

\$100

\$110

\$100

\$110

\$121

What is the sum of these amounts?



$$FV = Anity \times \frac{(1 + i)^n - 1}{i}$$

Discounting

- How much should you put into your bank account with an interest of 10%p.a. so as that you can get back \$133.1 after 3 years?
- To find the present value of a ***Single*** amount

$$PV = \frac{FV}{(1 + i)^n}$$

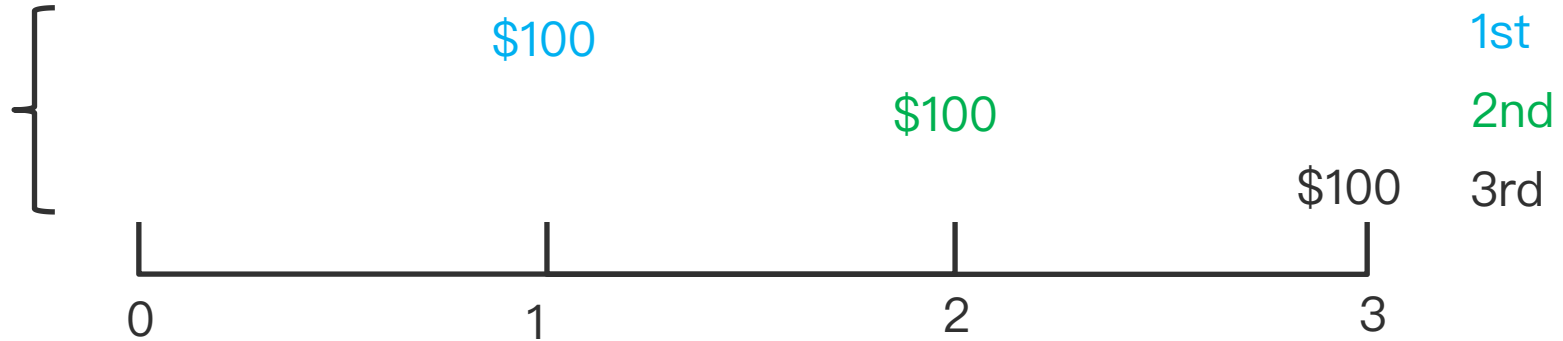
Discounting

- If you wish to withdraw \$100 at the end of each year for 3 years from an account that earns interest 10% p.a., how much you should deposit not?
- To find the present value of a **Series** of equal amounts

$$PV = Annuity \times \frac{1 - \frac{1}{(1 + i)^n}}{i}$$

Discounting

What is the
sum of these
amounts?





Opportunity Cost

- **Opportunity cost** is what you give up by making a choice
 - *Trade-off* of a decision
- Example 1:
 - You may spend \$200 to have meal with your friend or to buy the textbook.
 - What is your opportunity cost for you to buy the textbook?
- Example 2:
 - You may spend \$200 to buy the textbook or save it to earn an interest of 10%
 - What is your opportunity cost for you to buy the textbook?
- Interest rate is the opportunity cost for current consumption.

A Plan for Personal Financial Planning

- We all make hundreds of decision each day
- Some are complex and have long-term effects on our personal and financial situations
- Few people consider how to make *better* decisions
- Six-step financial planning process





Step 1: Determine Your Current Financial Situation

- Check out your current financial situation
 - Income
 - Savings
 - Living expenses
 - Debts
- Prepare your personal financial statement
 - A list of current asset and debt balances and amounts spent for various items
 - The foundation for financial planning activities

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Step 2: Develop Your Financial Goals

- Analyze your financial values and goals periodically
 - Differentiate your **needs** from your **wants**
- Your financial goals can range from spending all of your current income to developing an extensive savings and investment program for your future financial security

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Step 3: Identity Alternative Courses of Action

- Possible courses of action usually fall into these categories
 - Continue the same course of action
 - Expand the current situation
 - Change the current situation
 - Take a new course of action
- Not all of these categories will apply to every decision
- Consider all of the possible alternatives will help you make more effective and satisfying decisions



Step 3: Identity Alternative Courses of Action

- Example:
 - You are saving \$1000 into your bank account every month. What are the possible courses of action available to you?
 - Continue to save the same amount.
 - Save \$500 more
 - Invest it into the stock market
 - Pay off your credit card debts
 - Do nothing!!!



Step 4: Evaluate Your Alternatives

- Evaluating the alternatives, you should always keep in mind the following two aspects:
 1. *Consequences of choices*
 - Every decision has an opportunity cost.
 - The trade-off cannot always be measured in money, but the resources you give up have a value that is lost
 - Example:
 - You are considering to take a Master degree after finishing your undergraduate degree or take up a job offer by a famous company.
 - What is your opportunity cost if you end up with taking the master degree?
 - Income; working experience; skills
 - Job satisfaction



Step 4: Evaluate Your Alternatives

2. *Evaluating risk*

- Uncertainty is also a part of every decision
- Different decisions involve different degree of risk
- In many financial decisions, identifying and evaluating risk are difficult.
- Common risk to consider
 - Inflation risk
 - Interest rate risk
 - Income risk
 - Personal risk
 - Liquidity risk



Step 4: Evaluate Your Alternatives

- The best way to consider risk is to gather information based on your and others' experience and to use financial planning information sources.
- Common sources
 - The Internet
 - Media sources
 - Financial institutions
 - Financial specialists
- A larger amount and more advanced information is needed when more risks are associated with a decision.
- Some more things to consider
 - Your life situations; personal values, current economic conditions, etc



Step 5: Create and Implement Your Plan

- Develop an *action plan* to achieve your goals
- The plan has to be *realistic* and *achievable*
 - Example
 - Your friend is planning to have his own home after 3 years from graduate
 - He is targeting on a flat of size 600 sq. feet, which selling at \$5M
 - He is expecting to get a job paying him \$30,000 per month
 - He will save \$28,000 per month and get it accumulated to \$1M in 3 years for the down payment
 - What will you say to your friend?
 - God Bless You!!!

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Step 6: Review and Revise Your Plan

- Financial planning is a dynamic process
- Regularly assess your financial decisions
- A complete review should be done at least once a year
- Changing personal, social, and economic factor may require more frequent assessments
- A regular review will help you make priority adjustments that will bring your financial goals and activities in line with your current life situation