

Week 3A - Real Estate Investments (Important: Location, Location, Location!!).

Purpose of Real Estate Investment:

- a. Private Purpose - own residential property for family living
- b. Business Purpose – own commercial property for conducting business
- c. Investment Purpose – Income purpose (periodic rental income) or speculative purpose (mainly looking for return in the form of quick capital appreciation).

Advantages of Real Estate Investment	Disadvantages of Real Estate Investment
<ul style="list-style-type: none"> • <u>Tangible Security</u> • Provides both income and capital growth (may also have capital loss) • <u>Control</u> – investor can solely manage the property. • <u>Leverage</u> – ‘negative gearing’ provides tax benefits for the investor. 	<p><u>Time Horizon:</u></p> <ul style="list-style-type: none"> • ST investors may be concerned with current interest rates and market expectations. • LT investors may be concerned with economic factors (population growth and long term capital appreciation). <p><u>Geographic Area</u> – property value is link the what is going on around it.</p> <p><u>Liquidity</u> – illiquid compared to financial securities (how long the property has been on the market).</p> <p><u>Speed of Transaction</u></p> <p><u>Maintenance Margin</u> – repairs and maintenance to be carried out.</p> <p><u>Government Controls</u> – town and country planning regulations.</p> <p><u>Economic Conditions</u> – impact of economic growth, inflation, employment etc.</p> <p><u>Legal Complexity</u></p> <p><u>Availability of Information</u> – property market is less efficient because of the lack of investor information.</p> <p><u>Costs of Acquisition</u> – legal costs and stamp duty.</p>

Forms of Real Estate Investment

1. **Direct Investment** – allows direct control over the investment, with no trust or management fee and the tax benefits are not diluted as in trusts.
 - a. Disadvantages – poor liquidity, high transaction costs (including stamp duty), high entry capital costs, poor diversification (exception property syndicates) and management costs.
2. **Indirect Investment** – investing in property through Purchasing securities in an Australian Real Estate Investment Trust (A---REIT)
 - a. Advantages: Low transaction costs, low capital requirements, high diversification and liquidity, and professional asset management
 - b. Disadvantages: High management fees, and high correlation of A---REIT with All Ordinaries Index reduces some of the diversification benefit

Property Valuation – Market Value
<p>The Cost Approach (aka Summation Method) – the idea that an investor should not pay more for a property than it would cost to rebuild it at today’s prices for land, labour and construction materials</p> <ul style="list-style-type: none"> • Must amount for physical depreciation of the building and is suitable for residential property and new or relatively new buildings. • Experts suggest that this approach should be used with other methods.
<p>The Direct Comparison Approach – involves the analysis of comparable sales (Straight forward & simple approach)</p> <ul style="list-style-type: none"> • Based on the idea that the value of a property is about the same as the prices of which other similar properties have recently been sold – suitable for properties where several recent & similar property sales have occurred.

- All properties are unique so price adjustments are necessary.

The Income Approach – the value of the property is the present value of all its future income

= Annual Net Operating Income/ Market Capitalisation Rate (R).

- ANOI – subtract vacancy and collection losses and property expenses (except mortgage) from gross potential rental income.
- Market Capitalisation Rate – discount rate is obtained by examining recent market sales figures to determine the rate of return currently required by property investors.

After-Tax Cash Flows Investment Approach – Discounted Cash Flows (NPV)

- DCF analysis is used in the assessment of larger and more complex investment properties
- Calculate the total present value of future period cash flows and terminal value discounted by a specific rate known as the discount rate.

Retrospective versus Prospective	<ul style="list-style-type: none"> • Market value appraisals look backward: they attempt to estimate what the property will sell for by looking at the sales prices of similar properties in the recent past. • Investment analysis approaches try to incorporate market and economic conditions, e.g. interest rates, population, buyer expectations, in the valuation process
Impersonal versus Personal	<ul style="list-style-type: none"> • Market value estimates represent market average price: they do not consider a unique set of needs of a buyer or seller • Investment analysis approaches attempt to evaluate a property considering personal conditions of a seller or buyer.
Unleveraged versus leveraged	<ul style="list-style-type: none"> • Market value approaches assume either a cash or an unleveraged purchase and do not incorporate alternative financing plans that might be available (e.g. debt financing) • Investment analysis approaches allow for the purchase price to be financed with debt.
NOI versus after-tax cash flows	<ul style="list-style-type: none"> • Market value estimates consider only NOI, which can have little meaning especially when investors finance their purchase with debt • Investment analysis approaches provide investors with the answer as to how much cash they will be required to invest and how much (after-tax) cash they are likely to receive from the investment

Considers the supply and demand for property as determinants of rent price, and therefore market value.

Investment analysis is **prospective** (incorporates market & economic conditions) and considers **personal** conditions of buyer *as opposed to market valuation* being **impersonal** (looks at the market average) and **retrospective** (looks backward to previous sales).

Leveraged Property Investment (LPI) – Leveraging or gearing is the use of debt financing to acquire property – the debt financing affects risk-return parameters of a real estate investment

- Positive Gearing – net rental income is more than the debt cost
- Negative Gearing – mortgage interest exceeds the net rental income from the property, creating a tax loss.

Week 3B – International Investments

Appropriate for emerging markets with a stable political system, low regulation, and low

regulatory compliance costs. (Calculated risk and return the same as a domestic portfolio).

Advantages	Disadvantages (Considerations)
<ul style="list-style-type: none">• Increased investment choices• Increased diversification (low correlated foreign markets).• More opportunities to achieve higher rates of return in comparison of home country.	<ul style="list-style-type: none">• Foreign Exchange risk (an additional component of return which must be managed to ensure it does not offset any higher returns achieved)• Potential illiquidity, lack of information, and political risk associated with foreign investment

Week 4 – Derivatives

Values are determined by the value of the underlying assets such as stocks, bonds or commodities. Common derivatives = forwards, futures, options, warrants and contracts for difference (CFDs).

A short (selling) position commits a seller to deliver an item at contract maturity .	A long (buying) position commits a buyer to purchase an item at contract maturity
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Forward & Futures Contracts	Option Contracts	
Long Positions	Calls	Puts
Short Positions	Long Positions	Long Positions
	Short Positions	Short Positions

To clear a position: to take the reverse position in the derivative market to settle the contract, as opposed to delivering the underlying asset at exercise date (e.g. buy back a previously sold derivative)

Can be short sold: sold now at a higher price, and bought back subsequently when prices fall

Open short--interest: the number of short--sales currently open which can provide an indication of market expectations (e.g. a high short--interest ratio indicates a bearish market)

Forwards & Futures

<p>Forwards - Buying a commodity, security or other assets for future delivery at a predetermined future date and at a predetermined price.</p> <ul style="list-style-type: none"> • Delivery price is fixed but not paid until the delivery date and is usually different from the prevailing spot price. 	<p>Features:</p> <ul style="list-style-type: none"> • Non-standardised (price and delivery date are negotiated) • Over the Counter Market (OTC) • Between two private parties • Does not require collateral or margin (involves credit risk/default risk). • Illiquid
<p>Futures – agreement between a buyer and a seller made in the futures market (organised exchange) to exchange a specified amount of cash for an asset at a specified future date.</p>	<p>Features:</p> <ul style="list-style-type: none"> • Standardised on size, delivery date, and conditions • Futures exchange (intermediary) making them more marketable in the secondary market and a lower liquidity risk. • Buyers and Sellers required to deposit funds (margins) = lower default risk. <p>Initial Margins range from 3% to 6% of the contract value Margin Accounts held by the clearing house are marked to market daily at the settlement price.</p>

Futures Hedging (Involves a physical market position).

Two Basic Hedge Positions	
Short Hedge	<ul style="list-style-type: none"> • a long position (purchase of assets) in a physical or cash market and • a short position (sale) in the futures market • in order to protect the assets against a decline in prices (investor's/lender's/physical asset owner's perspective).
Long Hedge	<ul style="list-style-type: none"> • a short position (sale of assets) in a physical or cash market and • a long position (purchase) in the futures market • in order to lock in current (lower) prices and (higher) yield (investors/lenders - intending to buy assets).

Hedging futures provides the risk of an imperfect hedge and therefore basis risk.

- Number of contracts required (hedge ratio) = amount of asset hedged / size of each contract