



DISCOUNTED CASH FLOW ANALYSIS

Practical
Application

Presented by: John Pryor and Hayden Doody

TOPICS COVERED

- DCF Applications
- When is DCF most useful?
- Benefits & Shortcomings
- Key Inputs & how are they determined and applied
- DCF models- Proprietary vs In-house models

DCF APPLICATIONS

Most Obvious Applications are:

- Investment property
- Terminating investments
- Going concerns

WHEN IS DCF MOST USEFUL?

Situations where DCF is most commonly used:

- Multi tenant properties
- Substantial assets
- Small single tenant investments?

BENEFITS & PITFALLS

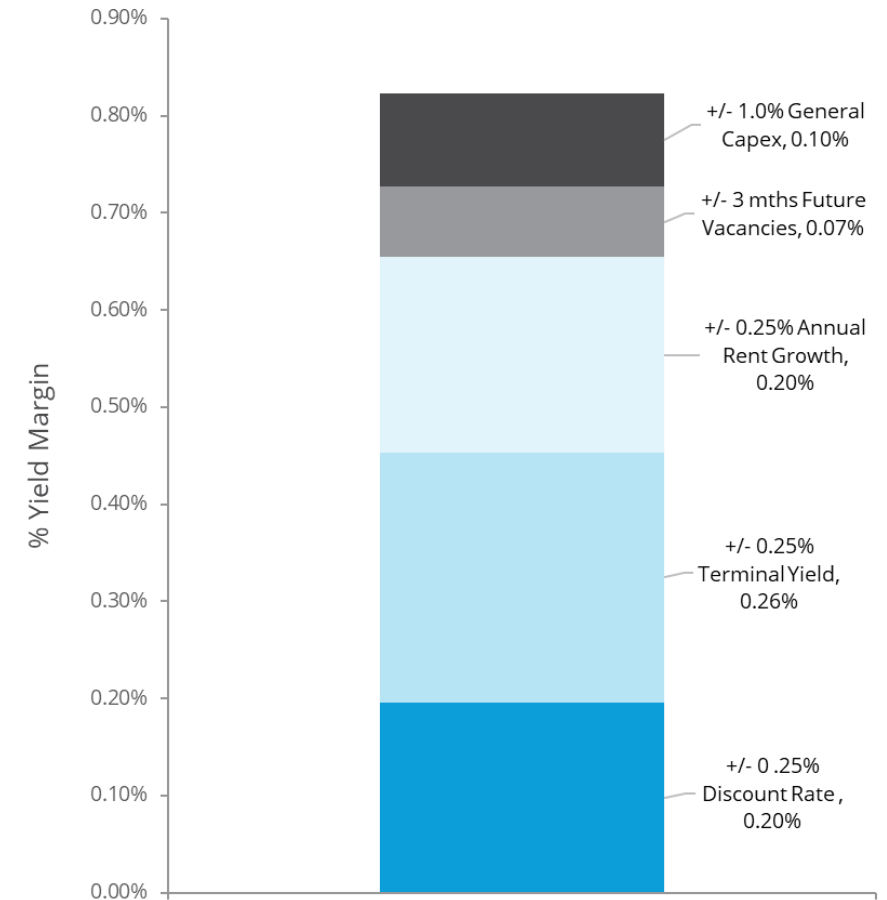
Benefits

- Unpacks assumptions implicit in cap method
- Good with uneven income

Pitfalls

- Forecasts are inherently risky
- Compounding effects

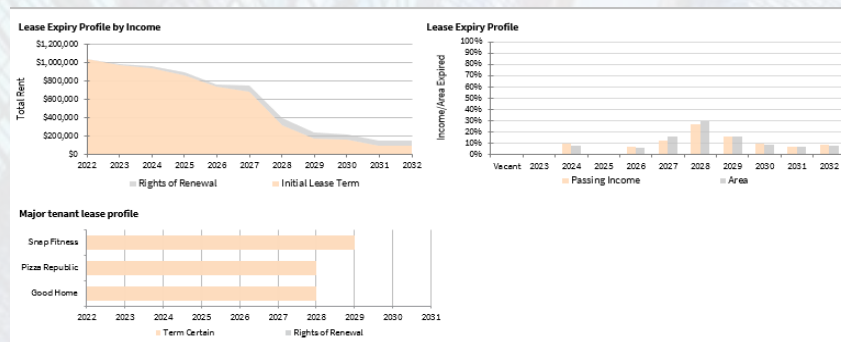
Initial Yield Sensitivity to DCF Increments



BENEFITS & PITFALLS (CONT'D)

How do we Traverse the Pitfalls

- Always ensure consistency in analysis & application
- Audit cashflow forecasts
- Always check outcome with passing yield/equivalent yield



COPY INDIVIDUAL CHARTS & PASTE INTO REPORT AS A PICTURE



KEY INPUTS

What are the main Variables?

- What cash flow are we dealing with?
- Discount rate
- Terminal cap rate
- Market rent growth
- Treatment of vacancy, letting up periods, incentives and transaction costs
- CAPEX

Discounted Cashflow Method Assumptions										
▪ Cashflow Period:	10 years									
▪ Growth Forecasts:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
- Prime Retail	0.00%	0.00%	2.50%	2.40%	2.20%	2.20%	2.10%	2.50%	2.50%	2.50%
- CPI	3.20%	2.10%	2.50%	2.40%	2.20%	2.20%	2.10%	2.50%	2.50%	2.50%
- Expenses	3.20%	2.10%	2.50%	2.40%	2.20%	2.20%	2.10%	2.50%	2.50%	2.50%
▪ Capital Expenditure:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
	\$0	\$0	\$0	\$0	\$175,000	\$0	\$0	\$0	\$0	\$200,000
▪ Future Vacancy Allowance										
- Tenant 1:	6 months from March 2028									
- Tenant 2:	6 months from June 2028									
- Tenant 3:	6 months from June 2028									
- Tenant 4:	6 months from February 2031									
- Tenant 5:	6 months from June 2023					and 6 months from December 2029				
- Tenant 6:	6 months from April 2026					and 6 months from October 2032				
- Tenant 7:	6 months from April 2029									
- Tenant 8:	6 months from April 2025					and 6 months from October 2031				
- Tenant 10:	6 months from June 2031									
- Tenant 11:	6 months from December 2028									
- Tenant 12:	6 months from April 2026					and 6 months from October 2032				
▪ Leasing Commissions:	17.00%									
▪ Annual Net Cashflow:										
- Period End:	Mar-2023	Mar-2024	Mar-2025	Mar-2026	Mar-2027	Mar-2028	Mar-2029	Mar-2030	Mar-2031	Mar-2032
- Net Cashflow	\$1,082,083	\$1,023,303	\$1,087,839	\$1,037,528	\$800,417	\$1,119,161	\$799,247	\$1,044,238	\$1,144,776	\$865,906
▪ Terminal Capitalisation Rate:	6.85%									
▪ Discount Rate:	7.35%									

KEY INPUTS (CONT'D)

Cash flow characteristics

- Cash flow length
- Tax & finance costs

KEY INPUTS (CONT'D)

Discount Rate

- **What is it?**
 - The theoretical answer – The rate of return on and of investment
 - The practical answer – A Unit of Comparison
- **Where do we get it from?**
 - The theoretical answer – Financial Concepts
 - The practical answer - The market

KEY INPUTS (CONT'D)

Terminal Capitalisation rate

Should it be higher because the building will be older?

Consider:

- The lease profile in 10 years time
- CAPEX treatment during cash flow period
- Terminal income relative to market
- Market perception

Always treat this on a case-by-case basis

KEY INPUTS (CONT'D)

Market Rent Growth Rates

- Where do these come from?
 - Analysis of historic trends
 - Listen to market
- How do we apply them?

KEY INPUTS (CONT'D)

Capital Expenditure (CAPEX)

- General allowance?
- Specific works?

KEY INPUTS (CONT'D)

Other considerations

- Treatment of vacancy
- Letting up periods
- Incentives
- Disposal costs



DCF MODELS

Options

- Proprietary
- In-house

DCF MODELS (CONT'D)

Proprietary Model

- Benefits
 - Stakeholders like the consistency and often use them themselves for crosschecking
 - Versatile with multiple inputs & variables to deal with complex situations
 - When you know them well, they can make your life very easy

DCF MODELS (CONT'D)

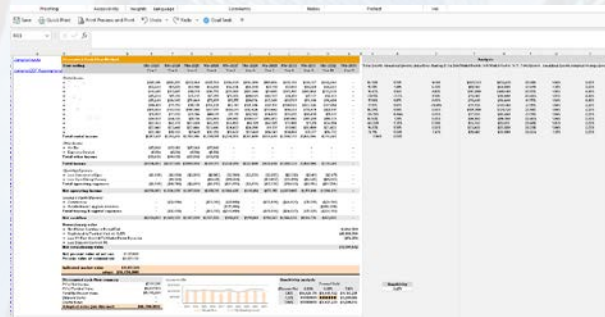
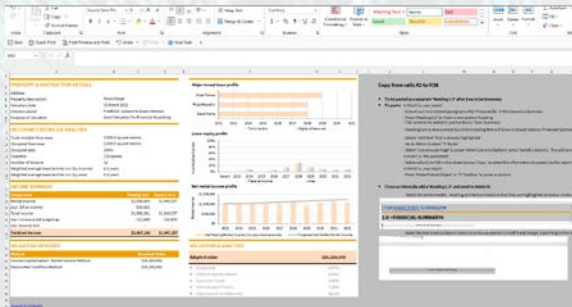
Proprietary Model

- Shortcomings
 - Licensing costs
 - Can be cumbersome
 - Extensive upskilling & training required
 - Can be difficult to check/audit calculations

DCF MODELS (CONT'D)

In-house Model

- Benefits
 - You can make it what you want/need- simple or as complex as you dare
 - You know what goes into calculations and can easily check them
 - Can be modified to suit requirements
 - Free to run
 - Can be re-branded or re-formatted easily in-house

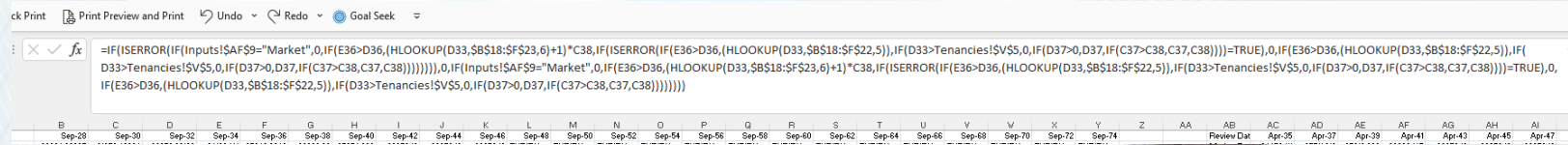


DCF MODELS (CONT'D)

In-house Model

- Shortcomings

- Expertise required
- Can be very time consuming to create and maintain
- Testing and modifying can be frustrating and painstaking
- Not easy for stakeholders to crosscheck
- Regular overhauls required where trends & requirements change
- Key person risk
- Automation is not for the faint-hearted!



THE END