Challenges in Valuing Investment Property

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Property Investment & Investment Property

Investment Property

Income Producing Property
Investment Grade Property

Commercial Property



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Valuation Approach



Difficult to get Comparable Data

Income Approach

Most suitable for Commercial Property **Cost Approach**

Still used by Investor/Owner especially to develop new property



Financial Motive of Investment >> Value of The Investment





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Non Financial Benefit of Property Investment





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Discounted Cash Flow Model							
		Y1	Y2	Y3	Yn	Yn+1	
Cash In	А	A1	A2	A3	An	An+1	
Cash Out	В	B1	B2	B3	Bn	Bn+1	
Net Operating Income	C = A - B	C1	C2	C3	Cn	Cn+1	
Discount Rate							
Present Value of NOI 1-n	ΣD1-n	D1	D2	D3	Dn	Dn+1	
Present Value of Terminal Value	Е					TV	
Property Value	$F = \Sigma D + E$						





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Discounted Cash Flow Model

Description	Column2 🔻	Y1 🔽	Y2 🔽	Y3 🔻	Y4 🔽	Y5 🔽	Yn+1 🔽
Cash In	5%	100.00	105.00	110.25	115.76	121.55	127.63
Cash Out	5%	80.00	84.00	88.20	92.61	97.24	102.10
Net Operating Income (NOI)		20.00	21.00	22.05	23.15	24.31	25.53
							5%
DR	10%	0.91	0.83	0.75	0.68	0.62	
Present Value of NOI		18.18	17.36	16.57	15.81	15.09	
Sum of PV.NOI	83.01						
Capitalization Rate							5%
Terminal Value (TV)							510.51
PV. TV	316.99						
Property Value	400.00						



Challenges in Building Financial Model for Investment Property





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Rental Rate





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Discount Rate





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Value Indication

Value Indication from Income Approach captured financial benefit of Property Investment

• Expected Capital Gain has significant effect in Value Indication

Owning the Property is not all about Financial Benefit

• Property Price and Value are also effected by non financial motives



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Valuation Simulation

♦ This Simulation is Hypothetical Valuation based on the market data:

Grade A Office Building in CBD Jakarta					
Rentable Area	m2	70,000			
Gross Floor Area	m2	100,000			
Land Area	m2	8,000			
Rental Rate	IDR 000/m2/month	240			
Occupancy Rate		73%			



Description Description	2 Description3	• Y1 •	Y2 🔹	Y3 •	Y4 •	Y5 🔽	Y6 🔹
Cash In							
Rentable Area	m2	70,000	70,000	70,000	70,000	70,000	70,000
Rental Rate	3% IDR 000	240	247	255	262	270	278
Occupancy Rate		73%	74%	75%	76%	76%	76%
Rental Revenue = NOI	IDR 000	147,168,000	153,659,520	160,408,080	167,423,260	172,445,958	177,619,337
All Expenses Covered by Serv	ice Charge						
Perpertuity Growth							3%
Capitalization Rate							8%
Terminal Value Perpertuity	Value						2,220,241,707
							3%
Discount Rate	11%	0.90	0.81	0.73	0.66	0.59	
PV of Net Operating Income	587,211,47	3 132,583,784	124,713,514	117,289,006	110,286,887	102,338,283	
PV pf Terminal Value	1,317,605,39	0					
Property Value	1,904,816,86	2					
Rounded	1,905,000,00	0					



♦ IDR 000 **Indication from Income Approach** 1,905,000,000 1,600,000,000 8,000 Land 100,000 1,000,000,000 Building 2,600,000,000 **Indication from Cost Approach** 36%



- The Big Gap from Income Approach and Cost Approach is the signal to revisit both approaches calculation
- ♦ In Cost Approach, should consider the Economic Obsolescence if relevant
- In Income Approach, adjusting the Terminal Value to accommodate the Expected Capital Gain



Description	Description2	Description3	• Y1 •	Y2 •	Y3 🔽	Y4 🔽	Y5 🔽	Y6 🔹
Cash In								
Rentable Area		m2	70,000	70,000	70,000	70,000	70,000	70,000
Rental Rate	39	% IDR 000	240	247	255	262	270	278
Occupancy Rate			73%	74%	75%	76%	76%	76%
Rental Revenue = NC		IDR 000	147,168,000	153,659,520	160,408,080	167,423,260	172,445,958	177,619,337
All Expenses Covered	d by Service Charge							
Perpertuity Growth								6%
Capitalization Rate								5%
Terminal Value	Perpertuity Value							3,552,386,731
								6%
Discount Rate	112	%	0.90	0.81	0.73	0.66	0.59	
PV of Net Operating	Income	587,211,47	73 132,583,784	124,713,514	117,289,006	110,286,887	102,338,283	
PV pf Terminal Value	9	2,108,168,62	24					
Property Value		2,695,380,09	96					
Rounded		2,695,000,00	00					



ndication from Income Approa	2,695,000,000		
and	8,000	1,600,000,000	
Building	100,000	1,000,000,000	
ndication from Cost Approach	2,600,000,000		
		-4%	

Thank You Terima Kasih ½èÕ;óÎ Salamat Cảm ơn



