



# Valuation Of Income Fetching Real Estate

Dr.Navnath V. Khadake<sup>1</sup>, Chintamani N. khadake<sup>2</sup>, Kalpesh R. Kanase<sup>3</sup>, Rushikesh S.Gote<sup>4</sup>

<sup>1</sup> Govt.Regd.Valuer, Chartered Engineer ,Arbitrator, <sup>2</sup> Assistant professor JSPM ICOER Wagholi-Pune

<sup>3</sup> PG Scholar, JSPM University Pune , <sup>4</sup> PG scholar, JSPM University Pune

## ABSTRACT:

Valuation of income fetching properties is a special aspect of real estate valuation, as it can be effectively considered to determine the profitability and value of a property. Valuers should clearly Understand how to accurately evaluate the income potential of a property. Based on these data accurate valuation can be done. This will help for both buyers and sellers in order to make informed decisions. In this paper, we will present the fundamentals of income property valuation, exploring different approaches and factors that influence the process of Valuation of income fetching properties.

**Keywords-** Valuation, real estate, income fetching, capitalization rate, NOI, DCF

## I-INTRODUCTION:

There are three primary methods used to assess the value of real estate. Those are a comparable sales approach, the cost approach & income approach. This approach is particularly relevant for income-generating properties and is widely employed in the valuation of commercial real estate and rental properties. In this paper in-depth look at the income approach, how it works, and its significance in the real estate properties.

The income approach values a property based on its potential to generate income. It is founded on the principle that the value of an income-producing property is directly related to the income it can generate. The approach is often used for properties like apartment buildings, office spaces, retail centers, and other income-generation

## II- Components of the Income Approach:

**Net Operating Income (NOI):** NOI is a critical element in the income approach. It represents the total income generated by the property minus the operating expenses. Operating income includes rent collected from tenants and any other sources of income, while operating expenses cover the costs associated with running and maintaining the property.

**Capitalization Rate (Cap Rate):** The cap rate is used to convert the expected income from an investment into property value. It is the rate of return a property will produce on its own, irrespective of how it is financed.

**Discounted Cash Flow (DCF):** DCF analysis takes into account the time value of money. It involves estimating the property's future cash flows and discounting them back to present value using a discount rate. This method is particularly useful for more complex investments where future cash flows may vary.

### III-Purposes of the Income Approach:

**Investment Decision Making:** The income approach is crucial for investors making decisions about purchasing income-generating properties. It helps in assessing the potential return on investment and determining whether the property aligns with the investor's financial objectives.

**Market Valuation:** Real estate professionals use the income approach to estimate the fair market value of a property. This valuation method is particularly relevant in markets where income generation is a primary factor influencing property values.

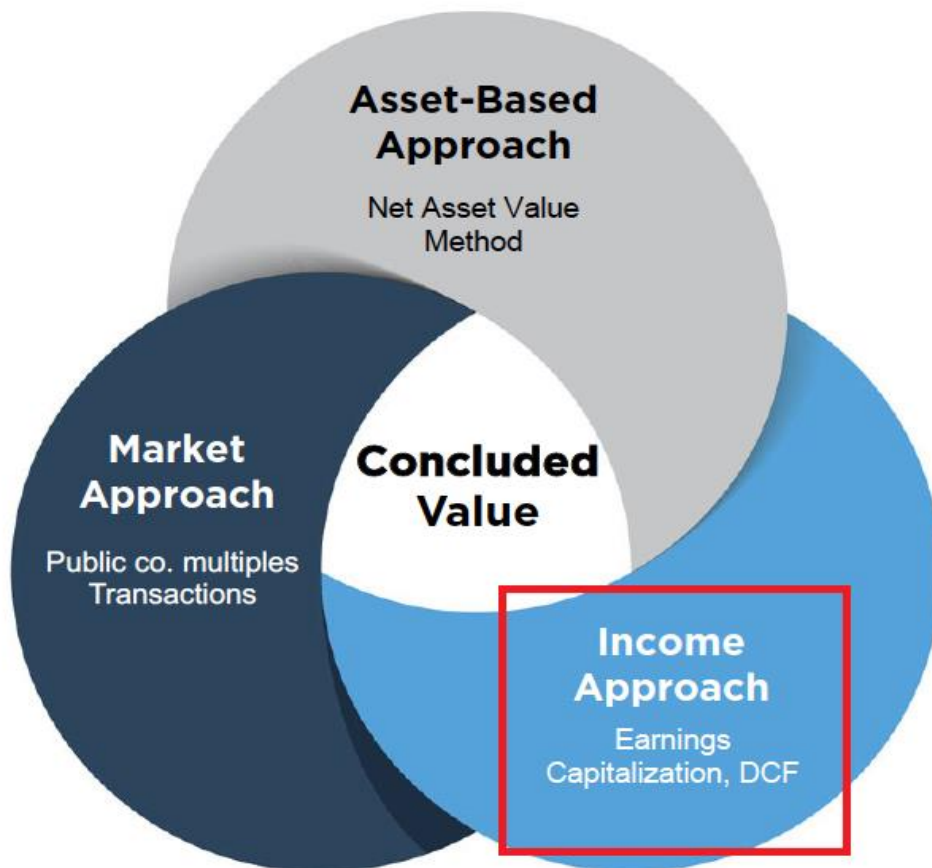
**Comparative Analysis:** The income approach allows for the comparison of different income-producing properties. By standardizing the income potential through metrics like cap rates, investors can evaluate properties on a similar basis.

**Risk Assessment:** Assessing the income potential of a property also involves evaluating the associated risks. Factors such as market trends, tenant stability, and operating expenses contribute to the risk profile of the investment.

### IV-METHODOLOGY AND IMPORTANT FACTORS

Income Approach •

The income approach is based on the principal that, the value of a property reflects the quality and quantity of the income it is expected to generate over its life. In other words, The Income Approach is a valuation method used by real estate appraisers to estimate the fair market value of a property based on the income it can generate.



The three main ways to calculate income approach is using the three methods

- 1.direct capitalization cash flow method, 2.discounted cash flow method, and
3. gross income multiplier.

The formulas are:

# Direct capitalization cash flow (Direct Cap Value): Net Operating Income /Desired Cap Rate

# Discounted cash flow (DCF): Sum of the Present Value of Rents/Specified Period of Time

# Gross Income Multiplier: Selling Price/Gross Monthly Income

Estimating the value of an income-producing property is done by a method called capitalization.

In simple terms, capitalization is the division of a present income by an appropriate rate of return to estimate the value of an income stream.

The formula used to estimate the value today of income expected in the future is known as the IRV (Income,Rate,Value) formula.

Value = Income/Rate

$V=I/R$

- The income approach is converting future benefits to present value.

### **Income Approach Formula**

The income approach formula to determine the market value of a property is as follows.

Market Value = Net Operating Income (NOI) ÷ Market Capitalization Rate

Where:

Market Value = Net Operating Income ÷ Capitalization Rate

Net Operating Income (NOI) = Effective Gross Income – Operating Expenses

Therefore, a property's appraised market value, under the income approach, is estimated by dividing net operating income (NOI) by the market capitalization rate.

Net Operating Income (NOI) = Potential Gross Income (PGI) – Vacancy and Credit Losses – Operating Expenses

Market Cap Rate = Net Operating Income (NOI) ÷ Current Property Market Value

Common operating expenses deducted from net operating income (NOI) include the following:

- 1.Property Insurance 2,Property Tax 3.Maintenance Costs 4.Repair Fees Utilities

- Anticipation – the idea that present value is determined by future benefits.

Because a Rupee to be received in the future has less value than a Rupee held now, the value of future Rupees anticipated from the ownership of real estate should be adjusted to present value according to the time they are expected to be received.

- Capitalization is the conversion of a single income stream or a series of incomestreams into a lump-sum value.
- A capitalization rate converts Net operating income into an estimate of value.

The capitalization rate is made up of three principle components – discount rate, recapture rate and an effective tax rate.

The discount rate = required rate of return on investment. Interest rate = required rate of return on borrowed funds. Yield = required rate of return on equity.

The discount rate is made up of an interest rate and a yield rate.

- Recapture rate = rate of return of investment. Provides for the recovery of capital on an annual basis. Applies only to that part of the investment that will waste away during the investment period.

Effective tax rate - the property tax rate expressed as a percentage of the market value. It is the proportion of tax amount to market value, and the only way to compare the effect of property taxes across jurisdictions.

For example, a property with a market value of Rs.10,00,000 and a total property tax of Rs.18,000. The effective tax rate would be  $=18000/1000000 = 0.018$  or 1.8 percent.

Formula:

Effective Tax Rate = Amount of property tax divided by the market value.

$$(18,000 / 10,00,000 = 0.018)$$

The income approach focus on factors that influence the behavior of investors

- Safety/Risk • Liquidity • Size of the investment • Use as collateral ( repayment guarantee)
- Leverage (small input & greater output) • Holding period • Amount of management required.
- Potential for appreciation . • Income tax advantages.
- Safety/Risk • Risk is relative and no investment is risk free. • The more safe an investment is, the less return an investor expects. Conversely, the more risk involved in an investment, the higher the return an investor expects.

#### **V-Factors Influencing Income Property Valuation:**

**A. Location:** The location of an income property plays a significant role in its valuation. Properties situated in desirable neighborhoods or areas with high demand tend to command higher rents and

thus have higher values. Factors such as proximity to amenities, transportation, schools, and employment opportunities can greatly impact the property's income potential.

**B. Rental Market Conditions:** The state of the rental market, including vacancy rates, rental rates, and trends, directly affects income property valuation. A strong rental market with low vacancies and increasing rental rates typically leads to higher property values.

**C. Property Condition and Maintenance** - The overall condition of the property, including its age, maintenance history, and any necessary repairs or renovations, can impact its value. Wellmaintained properties are generally more attractive to tenants and have higher income potential.

**D. income and expenses:** The property's current or projected income and expenses are crucial factors in determining its value. accurate assessment of rental income, operating expenses, and potential for rental growth is essential for a precise valuation.

## VI-Conclusion

Income-producing real estate is typically purchased as an investment, and from an investor's point of view earning is the critical element of property value. An investor who purchases income-producing property is essentially trading present rupees for the expectation of receiving future rupees (from both an income stream and a reversion).

The income approach to value consists of methods, techniques, and mathematical procedures that an appraiser uses to value an income producing property. If property is not being purchased for the benefits of the income it will produce, the income approach to value is probably not an appropriate tool to use in appraising the property.

## REFERENCES

Havard, T. (1998), "The Income Approach to Property Valuation, 4th edition", Journal of Property Valuation and Investment, Vol. 16 No. 1. <https://doi.org/10.1108/jpvi.1998.11216aae.002>

European Valuation Standards 2009 TeGoVa, International Valuation Standards 2007, IV SC,

Kucharska-Stasiak E., Nieruchomość a rynek, PWN, Warsaw 2005,

Rowland P. J., Property Investment and Their Financing, The Law Book Company Limited, Sydney 1993,

Regulation of the Council of Ministers of 21.09.2004 concerning property valuation and conducting valuation survey (journal of laws Dziennik Ustaw 2004, No. 207, item 2109)

Professional Standards for Property Valuers, The Polish Federation of Valuers' Association, Warsaw 2002,

The Act on Mortgage Bonds and Mortgage Banks (consolidated text in journal of laws Dziennik Ustaw of 2003, No. 99, item 91),

The Accounting Act of 29.09.1994 (consolidated text in journal of laws Dziennik Ustaw of 2002, No. 76, item 694),

The Property Management Act of 21.08.1997, (journal of laws Dziennik Ustaw of. 2004, No. 261, item. 2603),

Damodaran, A. (2012). "Investment Valuation: Tools and techniques for determining the value of any asset". 3rd Edition. John Wiley and Sons, Inc.992 p.

European Valuation Practice. Theory and technique (1996). Ed. by A.Adair, M. L. Downie, S. McGreal, G. Vos. London a.o., E&FN SPON. 337 p.

Fisher, I. (1930). "The Theory of Interest: As determined by impatienceto spend income and opportunity to invest it". New York, Macmillan.

<http://www.econlib.org/Library/YPDBooks/Fisher/fshToI.html>.

Fuhrer, M. (1944). "Our old friend Hoskold", The Appraisal Journal,Jan., pp. 50–51.

Gribovsky, S. V. (2016) "Income property valuation". Moscow, ProAppraiser. 464p. (in Russian).

International Valuation Standards. Effective 31 January 2020 (2019). Norwich, International Valuation Standards Council. 132 p.

Real Estate Appraisal. From value to worth (2006). S. Sayce, J. Smith, R. Cooper, P. Venmore-Rowland. Blackwell Publishing Ltd.

Sharp, W. F. (1964). "Capital asset prices: A theory of market equilibrium under conditions of risk", Journal of Finance, Vol. 19 No. 3, pp. 425–442.

Solomon, E. (1956). "The arithmetic of capital budgeting decisions", The Journal of Business, April No. 29, pp. 124–129.

The Appraisal of Real Estate (2013). 14th Edition. Chicago, Appraisal Institute. Trifonov, N. (2010). "Modern condition: market value or user value?",

23-26.06.2010. 17th Annual ERES Conference. Book of Abstracts and Programme. Milano, SDA Bocconi, p. 218.

