

# Investment Models

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≡ (i) Harrod-Domar Model

(ii) Wage-Goods Model

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## Harrod - Domar Model

This model highlights the role of investment in maintaining or increasing the growth rate.

According to this model, if the growth rate is to be maintained at a particular level, then, the investment

must be maintained at the level which is associated with that growth rate.

Similarly, if the growth rate is to be increased, then, the level of investment must increase.

Since, savings provide resources for the investment, therefore, this model emphasises the role of savings in the following manner -

$$g = \frac{S}{C_Y} \quad \Bigg| \quad g = S \times \frac{1}{C_Y}$$

Here -

$g$  = growth rate

$S$  = Saving Rate (% of GDP)

$C_Y$  = Capital-Output Ratio

Note - The Capital-Output Ratio

is an important indicator showing the productivity/efficiency of capital. Its formulae is the following -

$$\frac{C}{Y}$$

Here -

-

C = Number of capital units

Y = GDP

There is inverse relationship  
 between this ratio and the productivity  
 of capital.

↓  
 Example -

$$\frac{Y}{K}$$

$$4$$

$$4:1$$

$$3:1$$

$$2:1$$

ICOR

$$\frac{\Delta C}{\Delta Y}$$

$$\frac{C}{Y}$$

Assuming that a country's saving rate is 20% and the capital-output ratio is 4:1, then, the growth rate of that country will be -

$$g = \frac{20\%}{4} = 5\%$$

or

$$20\% \times \left| \frac{1}{4} \right| = 5\%$$

From the above, it can be said that the growth rate of a country is critically dependent on its saving rate at a given level of capital-output ratio.

Many a times, the saving rate of a country happens to be quite higher but the growth rate is found not to be accordingly higher. Apart from other things, it happens due to higher capital-output ratio.

## Relevance for India

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Various economists maintain

limited relevance

Why :

(i) Inaccurate estimation  
of COR, GDP, saving rate etc.

↓  
The unorganised sector dominate.

(ii) Doesn't focus  
↓  
Consumer goods  
↓  
Nature: Inflationary  
(Static Price Model)

(iii) Adjustment in the  
savings rate is not easier  
in countries like India.

(iv) India's unemployment cannot be removed only by industrialisation.

In spite of the above, this model can not be rejected altogether in Indian context.

It highlights the role of savings in the growth rate. It was implemented in the First Five Year Plan. And even now, we see its influence on the govt. policies.

In India, saving is promoted

by concessions in income tax etc.  
by the govt.

The Eco. Survey also writes extensively about the trends in saving & investment rates.

# The Inlage-Goods Model

↳ Given by - P.R. Brahmanand  
&  
C.N. Malik

↳ Message or Focus - Inlage Goods must be produced adequately.

Why! So that their prices are lower & the worker class is not required to be paid higher wages

↓  
↑ Capital Surplus

↓  
Reinvestment

↓  
Higher economic growth.

✓ what are  
wage-good?

↳ Activities  
of focus

Goods to be  
consumed mostly  
by the worker  
class.

Agriculture  
Cottage Industries  
Village Industries  
Animal rearing  
Micro & small Enterprises  
etc.

- ↳ Benefits :
- (i) More emp. creation  
↓  
Almost all activities are labour-intensive.
  - (ii) Inclusive dev.
  - (iii) Growth with equity.
  - (iv) Development based on local resources.
  - (v) No requirement of FDI & foreign technology.
  - (vi) Food-security.

Note -

According to Dani Rodrik, China followed the similar policy in the initial stage of development under which it promoted agriculture & TVEs (Town & Village Enterprises).

Through this, China not only could ensure employment for its large population but also food security for it.

$\mathbb{R} \xrightarrow{-5} \mathbb{C} \xrightarrow{H} \mathbb{S}$

