

Causes of long term growth:

Causes	Description
(1) The amount of resources available	1. Capital - The nation's output depends on its stock of capital (K), e.g. K rises, output rises - If we ignore the problem of machines wearing out or becoming obsolete & needing replacing, then stock of capital will increase by the amount of investment: $\Delta K = I$ Marginal efficiency of capital $\leftarrow MEC = \frac{\Delta Y}{\Delta K} = \frac{\Delta Y}{I}$ - The higher this rate of new investment, the higher will be the PG rate $g_p = i \times MEC$ - Determinants of the rate of investment: - Confidence of business people about the future demand for their products - Profitability of business - Tax regime - Rate of growth in economy - Rate of interest - Over the long term, if investment is to rise, then people must save more (& consume less) to finance that extra investment
	2. Labour - If working population increases, potential output increases due to - Increase in participation rate, i.e. higher proportion of total population in work / seeking work E.g. $\uparrow$ proportion of women with children deciding to rejoin the labour market, ppl retiring later & ppl working part time deciding to work longer hour - Increase in total population *** If increase in total population doesn't result in increased proportion of working population, output per head of population may not rise at all.
	3. Land & material - Since land is virtually fixed in quantity, land reclamation schemes and the opening up of marginal land can add only tiny amounts to national output. - Even if new raw materials (e.g. oil) are discovered, this will result only in short-term growth.
	- If a single factor of production increases in supply while others remain fixed, diminishing returns will set in. - Unless all factors of production $\uparrow$, $\therefore$ the rate of growth is likely to slow down. It isn't enough that labour & capital $\uparrow$ if there is a limited supply of land & raw materials. - If a rise in labour and capital leads to a more intensive use of land and natural resources, the resulting growth in output may be environmentally unsustainable. - Solution: an increase in the productivity of resources
(2) Productivity	- Technological improvements can increase the marginal productivity of capital. - New skills, improved education/training, better health $\Rightarrow \uparrow$ productivity of labour - Innovation & inventions