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Potential GDP and output gap

Technical box extracted from:

[Inflation Report no.3, August 2012](#) ^[1]

The trend of long-term economic growth is measured by real gross domestic product growth. These increases are not constant. Over the business cycle there are periods of expansion, when economic growth remains high, followed by periods of stagnation in which economic growth is slow or even GDP decreases occur. These fluctuations are the economic cycle, duration and size of which varies both from country to country and from one period to another in the same country, which creates problems in their measurement.

GDP fluctuations are the result of shocks on aggregate demand or on aggregate supply. The demand shocks affect the total consumption income, these types of shocks can be generated for example, by fiscal policy measures (changes in taxes, fees), by changing conditions that affect saving and borrowing (interest rate changes) and balance of trade fluctuations (exports and imports). The shocks on the supply of goods and services are usually caused by labor productivity, wages, and the costs of raw materials incurred by producers.

The competition between the labor market producers, the decrease of labor productivity in the context of growing workload determines the production costs to rise. This situation creates inflationary pressures. The manufacturers may decide, for some reason, to delay the price increases. To the extent that this happens, GDP grows without the materialization of the created inflationary pressures. Once the maintenance of unchanged prices threatens to significantly reduce the profits, the producers will raise prices. In this way, the previously accumulated pressures lead, after a while, to higher prices. If other conditions in the economy remain unchanged, the increases of prices result in the reduction of consumers' purchasing power and consequently lower demand for goods and services. As the sales can not exceed the purchases, the process ends by adjusting the production volume, the amount of labor employed in production, to an equilibrium level at which there are no inflationary pressures.

This level of GDP, at which the capital stock and actual workload engaged in manufacturing is at a level that does not generate inflationary pressures, is called potential GDP. Since **potential GDP** increases over time due to technological progress and the accumulation of physical and human capital, its chronological values series is called **GDP trend**.

Short-term real GDP can be greater than potential GDP, implying temporary accumulation of inflationary pressures. Since these pressures are even higher as production increases without changes in prices, the deviation of output from potential GDP, called **output gap**, is used as a synthetic measure of the intensity of pressures on prices gained in the economy. A positive output gap is determined by the level of real GDP greater than the potential GDP and indicates inflationary pressures. Symmetrically, a negative output gap indicates deflationary pressures, in terms of downward prices. In long-term, the accumulated pressures are released, prices become flexible and the output gap always tends to zero, bringing the GDP to a potential level.

The inflationary pressures are determined by the level of real GDP over the potential GDP, and real GDP is equal to the amount of goods and services required by customers, a positive output gap is also called excess demand. The excess demand can be reduced or eliminated by macroeconomic policies - monetary, fiscal and income. The monetary policy can act on excess demand through a variety of instruments; a classical measure is determined by the increase of interest rates. It aims to create incentives to increase savings so that, on one hand, the reduction of the income designated for

consumption in the current period and, on the other hand, the increase of the interest rates leads to the raise of the borrowing cost, thus reducing the consumption financed by credits. The slowdown in consumption in the current period decreases the demand pressures on production, thus reducing the output gap.

Estimating the output gap is a difficult task because potential GDP is an unobservable variable. Thus, knowing the actual level of real GDP, it is not possible to directly determine what proportion of this is the potential GDP, and respectively, which is the output gap. The output gap is estimated indirectly, using both statistical techniques and expert advice. The uncertainty of estimation of potential GDP and the output gap is also emphasised by the revision of statistics on actual GDP.

Following the NBM estimates, the growth rate of potential GDP in the Republic of Moldova is 5.0 percent and is compatible with the primary objective of maintaining price stability.

See also

Tags

[GDP](#) ^[2]

[potential GDP](#) ^[3]

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