

MODERN INDICATORS OF THE ACCELERATION OF THE ECONOMIC DEVELOPMENT OF THE ADVANCED COUNTRIES AND FIRMS

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Abstract

The article proposes and investigates the existence of a new economic indicator “development macroconstant”, which characterizes the level of each countries’ technological development. This development includes the influence of science and technology on the country’s status in the global economy. The research was conducted using longitudinal statistical data for major indicators such as GDP, GDP per capita and others for the group of large, technologically advanced countries.

Based on the analysis of the statistical data, which characterize the development of large technologically advanced countries in ordinary conditions, it was demonstrated that the average acceleration of a country’s development is practically independent of time. Several advantages were identified for the acceleration of growth rate of GDP and GDP per capita over other development indicators. The findings indicated that the majority of large, technologically advanced countries can be grouped together using the acceleration rate of development. Research of longitudinal data of total GDP, GDP per capita and their derivatives in most countries of the world was conducted. An analysis of statistical information has been done by using well-known econometric methods such as correlation, regression and cluster analysis.

The practical application of these findings is to use this “development macroconstant” as a single indicator for the long-term forecasting (15 and more years) of the development of countries and major firms.

Keywords: firm, forecasting, development, economics, potential, a constant pattern, clustering.

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