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## THE PATH OF DEVELOPMENT OF MACHINE-BUILDING ENTERPRISES IN THE CONDITIONS OF TRANSITION TO THE BIOECONOMY

Trends in the global development of today indicate that there are good, not artificial – real prerequisites for the transition to a bio-economy. Transformation processes involving complex systemic changes in all sectors of the economy. Engineering Enterprises are looking economy, so be prepared to wake manufacturing new competitive products, which customers will be companies that use biotechnology – enterprises of agriculture, medicine, pharmacy, chemical industry, energy. Successful performance of these companies is closely linked to the development of engineering.

Problems and future conditions of human existence troubled the minds of scientists of all time. Back in 1798, Thomas Malthus in his book «Essay on the Principle of Population» in relation to human society asserted Ido population grows exponentially, while livelihoods, in his opinion, grow in arithmetic profession. Malthus saw the problem of population without regard to any particular mode of production and social development in general. The findings, which were made with the assumption that some debatable, but the fact forecast a significant rapid growth of population relative to available resources

used for human needs, made sense, as we see in the present.

A more thorough approach to global example of human development was due to the activities of the Club of Rome - an international public organization created in 1968 by Italian industrialist Aurelio Peccei to study the prospects of development of the biosphere and promote the idea of harmonizing the relationship between man and nature. The structure of the club included representatives of the international political, financial, cultural and scientific elite.

Skip to the bio-economy involves significant changes, especially in the approaches to the organization, management and implementation of business entities using the latest achievements of science and technology, aimed at the development of biotechnology and rational use of existing resources.

Engineering industry in adapting to the new needs of business and consumer should choose innovative investment development path, change the management system of the enterprise by optimizing towards innovation, improve product quality, conservation and efficient use of resources and improving competitiveness.