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GLOBAL TRANSFORMATIONS: VARIETY, PHENOMENA AND REGULARITIES, HOLISTIC APPROACH

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Abstract. The processes of globalization, global transformations, as well as new global challenges for the social, economic and technological development of the contemporary society and societal life are analyzed in this theoretical article. The main attention is paid on so called processes of global transformations, as well as on the problems of scientific cognition of these processes and on the needs to solve these problems. The processes of global transformations are defined and described comprehensively. It is noted that contemporary global transformations should be identified not only as extremely complicated, multidimensional and contradictory processes, but also as a significant and very important field of the scientific cognition, research and academic studies, especially - of the research and studies, which are focused on the needs to solve many current problems typical for the contemporary society, its social, economic, technological, political development, culture and societal life in general. The complex analysis and the multidimensional evaluation of the processes of global transformations, as an perspective theoretical approach in research on societal changes and modern social, economic, technological and political development in the context of globalization is defined and described in the article. The variety of global transformations is described, the main problems and processes of current social, economic, technological and political development, as well as problems of ecology in the context of globalization are identified and studied. It is noted that the sustainability oriented interaction between the various processes of global transformations is a very important factor of the positive changes in the life of the contemporary society in the contditions of globalization. The main idea of the complex analysis and of the evaluation of the factors of interaction between various processes of global transformations is that all these processes, as a common global transformations, should be defined and analyzed on the basis of a holistic approach: this idea could be defined as a perspective theoretical framework to solve the contemporary problems of the current social, economic, technological and political development in the context of globalization in general, as well as the problems of the increase of development efficiency in the social and economic space of the European Union. The main phenomena and regularities of the global transformations are identified, their impact on real processes of social, economic, technological and political development is characterized. The main principles of the modern society and effective economy creation in the context of global transformations are formulated. The so-called holistic approach to the scientific cognition and research on the processes of globalization, on the global transformations and their impact on the social, economic, technological, political development, culture, ecological situation, security and sustainability in the contemporary conditionsis described.

Keywords: global transformation, modern society, effective economy, regularities, globalization.

JEL classification: F20, F50, O10, O30, O32.

1. Introduction

Academic studies and the scientific research on the contemporary processes of globalization, global changes and global challenges, as well as scientific cognition of the impact of the processes of globalization and various global factors on the social, economic, technological development, culture, ecological situation, scientific and technological progress could be defined as a particularly important field of the academic studies and research

on the problems and processes of the creation of modern society and effective economy, especially – in the European Union. A profound, deep and broad knowledge and scientific cognition of the contemporary processes of globalization, global changes and challenges could be assessed as *the most important assumption* and *the main way* to solve most of the social, economic, technological, even political, ecological, security and defense problems worldwide as well as in various countries or regions in general and in various countries

or regions in the global space, as well as in the space of the European Union.

It may be noted that the processes of globalization and global changes, in general, could be perceived and assessed as an *essential worldwide transformation*, which determines a number of *breakings and sallies*, important to all the human-kind

The processes of globalization and global changes, as well as new global challenges, as a whole, must be investigated, analyzed and known in complexity. In general, all these processes could be defined as the processes belonging to the category of global processes, and it also means that the main trends, orientations and the complex interaction between all these processes should be comprehended as an especially important factor of the changes in the life of the contemporary society in the context of globalization in general.

There are many different theories and theoretical models of the contemporary processes of globalization, global changes and global challenges, as well as of the scientific cognition of the impact of the processes of globalization and various global factors on the social, economic, technological development, culture, ecological situation, scientific and technological progress in the global space, as well as in the different countries and regions of the world. Many experiences of the investigation, analysis and scientific cognition of these processes are accumulated and used in the practice of the forecasting, prediction and reaction to the processes of globalization, global changes and to the global challenges.

Problem is that investigation, analysis and scientific cognition of these processes of globalization, global changes and global challenges, as well as the investigation and analysis of the impact of these processes of globalization and various global factors on the social, economic, technological development, culture, ecological situation, scientific and technological progress in the global space, as well as in the different countries and regions of the world, .in almost all cases are not oriented to the complexity and to the use of the socalled holistic and systemic approach: various processes of globalization, global changes, as well as various global challenges are usually analyzed separately, significant dependences between various processes of globalization and global changes are ignored quite often.

It means that the processes of investigation, analysis and scientific cognition of the processes of globalization, global changes and global challenges, as well as the investigation and analysis of the impact of globalization and various global factors on the social, economic, technological devel-

opment, culture, ecological situation, scientific and technological progress in the global space, as well as in the different countries and regions of the world, should be oriented to the complexity and to the use of the holistic and systemic approach. It could be noted that the complex investigation and analysis of these processes, as well as the use of the holistic and systemic approach to the scientific cognition of these processes and to the evaluation of the factors of interaction between different processes of globalization could be defined as an perspective way to solve some actual theoretical and practical problems in the area of the creation and development of modern society and effective economy.

The main idea of the complex investigation and analysis of the processes of globalization, global changes and global challenges, as well as of the holistic and systemic investigation and analysis of the impact of globalization and various global factors on the social, economic, technological development, culture, ecological situation, scientific and technological progress in the global space, as well as in the different countries and regions of the world, is that all processes of globalization and global changes, as a whole, could be defined and analyzed as a system of global transformations in general and that new challenges for societal development in the context of globalization should be identified. This idea could be defined as an particularly important characteristics of the preconditions for the correct survey, investigations and scientific research on the creation of modern society and effective economy, especially in the European Union. This idea is described in details in the article.

The object of the research described in this article is the processes of global transformations. The main focus is put on the holistic approach to the global transformations and to the interaction between the different processes of global changes.

Tasks of the research described in this article - to explore the new definitions and to systematize the general processes of global transformations, to describe the main global transformations and to identified their role, to explore the main challenges for societal development in the context of global transformations, to charaterized the holistic approach to the scientific cognition of the global transformations and globalization in general.

2. The global transformations as a general context of the processes of social, economic, technological and political development in the contemporary world: complexity and perspective theoretical approach

Situation in the contemporary world is more and more conditioned by multiple globalization processes, which appear in all areas of political social, economic life, and in all sectors of culture as well as of science and technological progress. Globalization processes proximately influence society's lifestyle and the quality of life, as well as the changes, which take place in all areas of life (Ravenhil 2008; Friedman 2006, 2009; Appiah 2007; Currie 2000; Castells 2000-2004; Chossudovsky 2003; Melnikas 2002, 2011, 2013). Besides, the perception and assessment of the meaning of globalization processes regarding the content and singleness of changes in the world are considered a very important assumption to scientifically cognize and adequately analyze the nature of globalization itself: it is obvious, that deep and complex cognition and analysis of globalization processes are possible only in those cases, when globalization processes are treated as changes, which take place in a global extent, and as global environment of such changes.

Relation of the conception of globalization processes to global changes and their environment allows *speculating* that the so-called *processes of global transformations* are considered *exceptionally significant* among globalization processes (Melnikas 2002, 2011, 2013). The reason for such speculation is the fact, that the essence of transformation processes (or, simply, transformations) is *qualitative changes*, which determine the *creation of new systems*: globalization processes namely express the world's *qualitative changes*; therefore, the *transformation processes* are treated as *exceptionally important and significant in the general whole of globalization processes*.

Global transformation processes are characterized by a wide variety and may be identified and classified according to various features. The following features may be treated as the most important ones among the features, which should be taken into consideration when identifying and classifying the processes of global transformations:

- features, which characterize natural and climate conditions, as well as their influence on various global changes and situation,
- features, which characterize human resources, their potential, change of its structure, as well as global role of human resources,

- features, which characterize the *society*, its development, structure, change dynamics, as well as features, which help to describe various *types* and models of the society itself and its organization, and global *spread and spread dynamics* of these types and models,
- features, which characterize global variety and spread of *cultures*, *mentalities*, *value systems*, *models of lifestyle*, *and social behavior stereotypes*,
- features, which characterize the processes of social, political, economic development, as well as science and technological progress, the impact and consequences of these processes, which appear or may appear globally.

The above-mentioned features, as a unit, as well as various their combinations allow universally and complexly describing the modern processes of global transformations and their variety. It is obvious, that regarding the complex cognition of global transformations, other features, characterizing such transformations may appear. The variety of global transformations is also shown by the fact that global transformations may be identified, assessed and analyzed by *two* different approaches:

- geographically regional approach, when global transformations, their expression or their impacts on the society and its life are assesses and analyzed according to a country, region, continent or other geographically or regionally identified system,
- sectoral approach, when global transformations, their expression or their impacts on the society and its life are assessed and analyzed by distinguishing certain sectors, out of the whole of global transformations, which are identified by regarding the content, character or forms of expression of global transformations themselves, and by assessing and analyzing the global transformations according to various sectors (besides, various sectors may be identified by highlighting multiple features, typical of the global transformations themselves).

Moreover, the variety of global transformations shows that *global transformations, as a unit*, are *exceptionally complicated area, which requires scientific cognition and research*. It is possible to claim, that the *underlying aim of the research* in this area is to assess and foresee possible impacts of global transformations on the society, its development, its life, as well as to make assumptions for purposeful influence and management of the society development processes.

The impacts of global transformations on the modern society in general and on the *changes* in

its life, development and progress are *multiple*, *complicated and even contradictory*.

Several circumstances determine the multiplicity and complication of the impact of global transformations on the society and changes in its life. Firstly, the global transformations themselves are characterized by a variety of typical features, which inevitably conditions the multiplicity and complication of these transformations and their impact. Secondly, global transformations, as a unit, may be identified as composing different geographically regional or sectoral systems: the variety of different geographically regional or sectoral systems reflects the multiplicity and complication of the impact of global transformations on the society and changes in its life. Thirdly, controversial tendencies, when certain development, progress and change processes evoke positively and negatively assessed results, inevitably appear under the conditions of the variety, multiplicity and complication of the global transformations and their impact on the society and changes in its life.

All in all, it is possible to claim, that global transformations, as a unit, are characterized by exceptional complication, variety and multiplicity, as well as great impacts on all changes, which take place in all areas of life, their content and trajectories. These circumstances reveal the importance and significance of global transformations. These circumstances also show that global transformation processes and their impacts on the modern society and changes in its life require a more detailed description.

3. Variety of global transformations and their influence on changes in the life of modern society

The global transformations, which express the changes of natural and climate conditions, the changes of the potential of human resources and its structure, the global transformations, which express changes typical for the modern society, its structure and organization, the global transformations, which express the changes of cultures, mentalities, value systems, social behavior stereotypes, as well as the global transformations, which express changes in various areas of social, economic, political development, science and technological progress could be defined as the main global transformations in general (Melnikas 2010, 2011, 2013).

Global transformations, which express the changes of natural and climate conditions, are very significant because these transformations reflect new challenges and needs to solve multiple ecological problems, radically reduce environmen-

tal pollution, save limited natural resources and seek for new alternatives for the use if these resources, as well as implement the means for the prevention of natural disasters and the reduction and elimination of their results (Friedman, 2009).

Global transformations, which express the changes of natural and climate conditions, may be perceived and assessed as the ones, which:

- determine the appearance and expression of new multiple threats, dangers and risks; firstly the threats, dangers and risks, which arise out of the increasing pollution, clear limitations to use natural resources, also due to new negative results, which are caused by the changes of natural and climate conditions,
- determine the needs to implement essential technological sallies and changes in various sectors, especially in energetic, manufacture industry, environmental protection, also which determine the needs to create, modernize and spread alternative technologies, meant for adequate adaptation to the changing natural and climate conditions,
- determine both tendencies and needs to initiate, spread and implement new models and priorities of lifestyle, social behavior, economical activity, as well as development and technological progress, and pay most attention to the adaptation to the natural and climate changes, the reduction and elimination of negative results, and the stop of undesirable changes,
- determine the necessity to react to the new type differentiation forms, which appear in the world, continents, countries or regions, and which show that natural and climate changes stimulate the increase of life conditions differentiation of people from different continents, countries or regions, including social groups or layers. The increase of such differentiation will stimulate the creation of assumptions that new conflicts among various layers and interest groups of the international society would increasingly appear. It would also stimulate mass expression of needs to develop international communication and provide support in order to decrease and eliminate the threats and dangers, which appear under the conditions of differentiation increase.

The significance of global transformations, which express the changes of natural and climate conditions, is shown by objectively highlighted influences to implement qualitatively new principles and standards of the development and management of various eco-systems globally. Essential changes in the modern society and its life are inevitably determined by the creation, spread and

implementation of such principles and standards (Melnikas 2002, 2010, 2011, 2013).

Global transformations, which express the changes of the potential of human resources and its structure, are especially significant due to two essential reasons. Firstly, these global transformations reflect the changes of human resource potential and their influence on the change of the modern society and its lifestyle. Secondly, these global transformations reflect the efficiency and usefulness of various impacts on the potential of human resources and its change.

Global transformations, which express the changes of the potential of human resources and its structure may be perceived and assessed as the ones, which:

- reflect and influence *demographic situation* and its changes globally, in separate continents, countries or regions, among different social groups and layers, as well as in the spread areas of different ethnic, confessional, cultural or other mentality groups,
- determine the impacts of demographic situations and their changes on the developing economical, social, political, ecological or other situation in the world, in separate continents, countries or regions,
- determine possibilities and assumptions that new threats, dangers or problems, which will be caused by the changes in the demographic situation, will inevitably appear in the world, in separate continents, countries or regions,
- show the variety of reasons, why the structure of human potential and demographic situation change, as well as the variety of possibilities to influence the changes of demographic situation.

The significance of global transformations, which express the *changes of the potential of human resources and its structure*, is shown by *objectively appearing* needs of the world, separate continents, countries and regions to implement *newly perceived humanistic orientations*, which reflect an increasing priority of natural human rights and freedoms, as well as *complexly treated* pursuit to *improve the life quality*: namely the perception, highlighting and implementation of the importance of *humanistic orientations* must be treated as the basis to react to the global transformations expressing the potential of human resources and the change of its structure (McNally 1999; Dang, Unemoto 2009).

Global transformations, which express changes typical for the modern society, its structure and organization, are very significant for several essential reasons. Firstly, these global trans-

formations reflect quite controversial processes, happening in the world, when assimilation and variety increase tendencies are typical of the change of society structures in different countries and regions. Secondly, these global transformations reflect the tendencies of the convergence of various society organization forms, including the tendency, the essence of which is *convergence*, multiple integration and even assimilation of a country's models and types, typical of a modern country, as the highest form of the society organization. Thirdly, these global transformations reflect very significant changes, which are typical of the role, activity and influence of modern countries, various international organizations, as well as international business subjects and other organizations, movements or formations. Fourthly, these global transformations reflect new type threats, dangers and risks, as well as new type possibilities when developing multiple progresses, which arise or appear under the conditions of change of modern society structures and its organization forms (Fischer et al. 2010; Friedman 2006, 2009; Sangmon 2002; Steinmueller 2002; Perraton 2001; Hunt 2000; Goeransson, Soederberg 2005). Global transformations, which express changes typical for the modern society, its structure and organization, may be perceived and assessed as the ones, which:

- determine the changes of powers and function structures, typical of modern countries, which reflect a general tendency, when the role of a state influencing and affecting the situation in various areas of social, economic, political development as well as science and technological progress, changes in essence. (The changes of the role of a state may be expressed in two ways: the first one is that a modern state gains new powers and takes up new functions; and the second – that, in the areas of traditional powers expression and implementation of traditional functions, the role of a state is more determined by its cooperation with various international and non-governmental organizations, with various social movements, various organizations, functioning in business and public sectors, and other subjects, most importantly – the subjects of international business, their networks and other formations),
- determine essential changes, typical of the activity and role of formal and informal international organizations and other formations, especially for the activity and role of international inter-state organizations and international economical and business organizations: under contemporary conditions, namely international organizations and other formations of various subjects perform various functions and gain more and more powers

to influence and affect a situation and development processes in separate countries or regions as well as internationally,

- influence essential changes in the modern management systems of the society development processes, including changes of democracy conception, and changes implementing democracy values and principles in a real management and self-government practice (besides, the changes of democracy and its values and principles naturally determine needs for change in various management system chains of the modern society development processes),
- determine creation and activity activation, variety increase and influence growth of various non-governmental organizations, movements and informal structures in the world, separate countries or regions: an appropriate tendency reflects manifestations of new society activeness forms as well as the increase of various interest groups' role and significance,
- determine the fact, that in the future there is going to be *new type interaction* between various subjects of activity and management, which operate internationally (states, various their organizations, other international organizations, various international business subjects and their formations), as well as regionally (various institutions of public administration, business subjects, international and local organizations, other subjects): it must be noted, that *new type interaction* appears and may appear in various forms of *network*,
- determine the fact, that there is going to be new type interaction between an individual and various organizations locally, regionally, in countries or internationally, and such interaction is gaining a bigger role and is becoming more and more intensive: under contemporary conditions individuals are becoming significant subjects of the society development processes, who are actively acting the globalization environment.

The significance of global transformations, which express the change of modern society structures and is organization forms, is shown by objectively appearing needs to adequately react to the changes of organization forms, typical to the modern society, as well as changes in the management of the society development processes and changes of the democracy and the conception of its value and principles as well as the results of such conception change. It must be emphasized, that the significance of the above-mentioned global transformations is also shown by the objectively appearing needs to ensure the consolidation of humanistic democratic values globalization processes are becoming more and

more intense, when the *mobility* of individuals, various social groups and layers, as well as organizations is increasing in various forms, and when new possibilities to develop multiple interaction among various activity and management subjects is increasing.

The global transformations, which express the changes typical for the modern society, its structure and organization, as well as the changes of the potential of human resources and its structure, could be defined as a global context of the changes of the potential of human resources and of the variuos organizational changes in all spheres and sectors of the contemporary society and its life.

Global transformations, which express the changes of cultures, mentalities, value systems, social behavior stereotypes, are very important because these transformations proximately affect ideals, expectations, ideological attitudes, assessment criteria as well as lifestyle models and underlying development trends, which are entrenched in the society and its life. It is obvious, that global transformations, which express the changes of cultures, mentalities, value systems, social behavior stereotypes are also important because these transformations particularly reflect the manifestations and tendencies for change of the society's psychological state, morale, ethnic and esthetic attitudes, spirituality, innovations and creativity, inertness and conservatism, tolerance and adaptation to the environment abilities.

Global transformations, which express the changes of cultures, mentalities, value systems, social behavior stereotypes, may be perceived and assessed as the ones, which:

- determine the activation of spread processes and variety increase of different cultures, mentalities, value systems, social behavior stereotypes, as well as their interaction and convergence tendencies: the expression of such tendencies reflects inevitable creation and development processes of qualitatively new cultures, mentalities, value systems, social behavior stereotypes, as well as their spread areas in separate continents, countries or regions, as well as internationally in general,
- determine the fact, that historically "alien" cultures intensively "penetrate" into historically created traditional concentration spaces of certain ethnic, confessional or other cultures, and that this "penetration" causes ambivalent consequences: they create preconditions for intensive connection of various cultures and creation of qualitatively new cultures, as well as they create preconditions for the expression of new conflicts, threats and dangers, which could be determined or encouraged

by the increasing variety of cultures and too great inadequacy of different cultures,

- encourage the creation of preconditions for the expression of multiple synergetic effects, which may determine the activation and development of innovations which include all areas of life, as well as the appearance of new risks, threats and dangers,
- determine inevitable changes in those systems of criteria and dimensions, on the basis of which it may be possible to react to the natural change of cultures, mentalities and other spaces, including the ones, on the basis of which it may be possible to "structuralize" various world's spaces (especially – to identify the spread areas of various cultures, interest or influence spheres of various countries and their groups, various markets). The changes of criteria and dimension systems not only determines the changes in the cognition of the modern world and the establishment and identification areas of various "cause-effect" connections, but also determine essential changes when creating, adapting and implementing means used by the society and meant for single-minded reaction to the change of cultures, mentalities, value systems and social behavior stereotypes.

The significance of global transformations, which express the changes of cultures, mentalities, value systems, social behavior stereotypes, is shown by the emphatic needs to adequately react to the changes of cultures, mentalities, value systems, social behavior stereotypes and their spread areas, to the outcomes of changes, which include all the areas of the modern society life, as well as to the fact, that these changes influence the change of the society structures and its lifestyle models. It must be noted, that the significance of these global transformations is also shown by the fact, that the change of cultures, mentalities, value systems, social behavior stereotypes highly influences society's tendencies to initiate and tolerate changes in various areas of its life (Melnikas 2002, 2010, 2011, 2013).

Global transformations, which express changes in various areas of social, economic, political development, science and technological progress, are extremely significant due to two reasons. Firstly, these transformations determine long-term qualitative changes and long-term development tendencies, which inevitably appear and will appear in all areas of the society, its life and development globally, as well as in separate countries or regions. Secondly, these transformations determine the *multi-channel influences* and "cause-effect' connections, which reflect general interaction phenomena, when changes in some areas of the society life and development proximately influence changes in other areas of the society life and development. The general interaction phenomena shows, that these global transformations reflect multiple functional as well as correlation connections, which show various subordinations among the changes in different areas of social, economic, political development, science and technological progress and the change tendencies.

The importance of global transformations, which express *changes* in various areas of *social*, economic, political development, science and technological progress, is also obvious because these transformations reflect the assimilation of processes and changes, which take place in particular areas of development, progress and society life, worldwide or in large global areas (Dicken, 1998; Farnsworth, 2005; Redding, Venables, 2004). The essence of such assimilation is that a situation in particular areas of the society life, development and progress in different countries or regions is becoming more and more assimilated, due to the appearing orientations to identical standards, norms, etalons, ideals, expectations, activity models, or stereotypes. It means that general global changes, which include different areas of social, economical, political development, science and technological progress, increasingly influence the situation in certain development and progress areas in separate countries or regions, as well as in every country or region in general.

It is possible to claim that namely these transformations reflect the *generalization of changes* in different areas of social, economical, political development, science and technological progress globally.

Global transformations, which express changes in various areas of social, economic, political development, science and technological progress, may be perceived and assessed as the ones which:

- determine the fact that the *influence* of the development, progress and change in *some* areas of the society's life on the development progress and change in *other* areas of the society's life *is increasing* worldwide and in separate countries or regions. Such *increase of many-sided, multiple and multi-channel influences* reflects the *significance increase* of *interaction, convergence and harmony* among different sectors of social, economic, political development, science and technological progress, and shows a *common tendency*, that changes in certain sectors determine the changes in others under the conditions of globalization,
- determine trajectory, extent and rate interinadequacies among the processes and changes in

different areas of social, economic, political development, science and technological progress, when development, progress and change processes taking place in different areas are characterized by more and more different and incompatible trajectories, extent and rate. At the same time, ambivalent assumptions emerge – the assumptions that qualitative sallies should be implemented in certain areas of the development, progress and change, and the assumptions that disproportions and conflicts should emerge in certain areas of the development, progress and change, which may have various negative consequences on the society and its life,

- condition the *needs to comprehensively* coordinate and harmonize changes, which take place in different areas of social, economical, political development, science and technological progress. Despite the fact that global transformations are perceived as an objectively appearing phenomenon, it is still necessary to react single-mindedly to various manifestations of this phenomenon and strive to rationally adapt to the objectively inevitable changes and effectively implement the prevention of undesirable effects using the means of coordination and harmonization, including the cases when unacceptable and undesirable inequality appears in different areas on the development, progress and change.

Global transformations, which express changes in various areas of social, economic, political development, science and technological progress, reflect the possibilities to solve and eliminate problems, which arise in various areas with the help of the experience or new development, progress and change results cumulated in other areas. These global transformations reflect *common tendencies* significant for the modern society and its life, which show that:

- social development and progress are increasingly determined by economic and political changes as well as the process of science and technological progress,
- economic development and progress are increasingly influenced by the processes of science and technological progress, especially, the sallies in underlying areas of science and technological progress, as well as various changes and processes, which take place in political and social life,
- political development and progress are increasingly influenced by social and economic changes, as well as various factors of science and technological progress,
- the processes of science and technological progress are increasingly influenced by various

factors and circumstance of social, economical and political development.

The above-mentioned tendency appears multiply and controversially – factors of the same origin may differently influence various processes of social, economic, political development, science and technological progress, and the effects of those influences may also be very different and differently assessed.

The significance of global transformations, which express *changes in various areas of social, economic, political development, science and technological progress*, is shown by objectively appearing needs to *adequately react*:

- to the variety, inequality and outcome multiplicity of the appropriate development, progress and change processes,
- to new risks, dangers and threats, which arise and appear owing to changes, as well as to the needs harmoniously adapt to the multiple and controversial development, progress and change processes, which appear in various areas,
- to the needs to *single-mindedly influence* and even *manage* the development, progress and change processes *within the limits of objectively existing and* conspired *possibilities*.

It must be emphasized, that the abovementioned global transformations show the *mod*ern society's powers to actively and singlemindedly influence its life's conditions at the same time partially programming the trajectories of further development and progress.

In general, the global transformations, which express *changes* in various areas of *social*, *economic*, *political development*, *science and technological progress*, could be defined as an *important precondition* and as a *global context* of various social, economic, political, technological changes in all all spheres and sectors of the contemporary society and its life, as well as in all countries and regions: this statement is especially important in the conditions of European integration and enlargement of the European Union (Zeitlin 2008; Wendt 2005; Melnikas, Reichelt 2004).

In conclusion, it may be noted, that global transformations, as a unit, are so much multiple and complicated, that even a detailed study of these transformations creates assumptions to perceive and assess various factors and circumstances, which are typical to transformations and their effects, only very superficially. What is more, the deeper approach to global transformations, their manifestations, variety, influence on the society's development and lifestyle changes allows adequately perceive the appearing problems and solve them single-mindedly and efficiently. The latter

proposition is very important when perceiving the problems and topicalities of the *sustainable development* as well as when trying to implement modern *attitudes of the sustainable development* in real practice (Melnikas 2011, 2013).

4. Regularities of global transformations and their expression: challenges for the modern society and effective economy creation

Global transformations, their expression and influence on the modern society and its life are characterized by wide *variety* and significant *common regularities*.

Among *common regularities*, typical of global transformations, the following must be emphasized:

- regularities, which reflect universalism and unification processes under the conditions of global transformations,
- regularities of the increasing uncertainties and their expression,
- regularities of unsynchronized development and the expression of resonance effects,
- regularities, which express society's needs to activate innovations, stimulate creativity, and strengthen adaptation and tolerance skills.

The above-mentioned regularities are perceived as very important and significant under contemporary conditions.

Regularities, which reflect universalism and unification processes under the conditions of global transformations, express a typical tendency of the universal convergence. The essence of this tendency is that identical standards, norms, etalons, as well as expectations, activity and lifestyle models, behavior stereotypes, which reflect the newest achievements and the newest conception of quality and modernity in all areas of the society life, social, economical, political development, science and technological progress, spread, are assimilated, implemented and renewed on a world scale. This tendency reflects a periodic phenomenon, the essence of which is continuously periodic situation assimilation typical of every specific area of the society's life, development and progress on a world scale.

The above-mentioned phenomenon is characterized by *universalism and unification* processes. *Universalism* processes may be perceived as the ones, which reflect *universality* objectives of standards, norms, etalons, models and stereotypes, which spread, are assimilated, implemented globally. *Unification* processes may be perceived as the ones, which reflect the tendencies and needs to *combine and harmonize* the *systems* of standards,

norms, etalons, models and stereotypes, which *periodically* develop in different areas of the development, progress and change.

It is obvious that *universalism* and *unification* processes may be assessed as the ones, which reflect important *challenges* for the sustainable development, because these processes my activate the sustainable development inside various sectors and areas of the development, progress and change, as well as provoke various disproportions and development and change inequalities in separate countries or regions.

In general, purposeful effects on the processes of universalism and unification as well as the abilities to react to various manifestations of these processes adequately are assessed as a very important link of the instrumentation, which is intended for the management of the sustainable development processes.

Regularities of the increasing uncertainties and their expression reflect the factor that more and more various uncertainties are appearing under the conditions of global transformations, and the expression of these uncertainties is much more various. These regularities are very important when trying to perceive and solve the problems of the sustainable development, besides, more and more uncertainties are appearing under the conditions of global transformations, which are necessary to consider when diagnosing, forecasting and planning the processes of the sustainable development.

Regularities of *unsynchronized development* and the expression of resonance effects reflect two simultaneous tendencies, which are different as well as complementary:

- development, progress and change processes, which take place in different areas of the society's life, activity and development, as well as in different countries or regions, are characterized by multiple *unsynchronicities*, *unbalancing*, *and inequalities*: this tendency reflects the appearing possibilities that various development, progress and change processes may be characterized by *increasing disproportions*, which may provoke additional risks and threats,
- development, progress and change processes, which take place in different areas of the society's life, activity and development, as well as in different countries or regions, are characterized by the congruence of space and time parameters (this tendency also reflects the resonance of different processes and may be described as a tendency reflecting resonance effects). This tendency reflects the appearing new risks and threats, which are or may be caused by the resonance of different processes and changes as well as new develop-

ment and progress possibilities, which may be based upon the *synchronization of different processes and changes*.

- It is obvious that regularities of unsynchronized development and the expression of resonance effects are assessed as extremely important when solving the problems of the sustainable development:
- unsynchronized development reflects the assumptions for the sustainable development problems to appear, as well as the possibilities to purposefully regulate pace and extent of different development processes and changes, and at the same time adequately react to various disproportions and inequalities,
- the expression of resonance effects reflects undesirable consequences of unharmonious or insufficiently sustainable development, as well as the possibilities to purposefully concentrate various management effects, which are intended to react to the development, progress and change processes, which require correction.

It must be emphasized that the circumstances of regularities of *unsynchronized development and* the expression of resonance effects in all cases require exceptional attention when trying to adequately perceive, identify and solve the problems of the *sustainable development*.

Regularities, which express the needs to activate innovations, stimulate creativity, and strengthen adaptation and tolerance skills, generally reflect the main challenges, which arise under the conditions of global transformations. These regularities reflect general tendency, which shows, that there is an increasing significance for the needs, which are intended to:

- activate innovations and stimulate creativity by reacting to new challenges and new problems, including the problems of *the harmonious development*, under the conditions of global transformations;
- strengthen adaptation and tolerance skills, because, under the conditions of globalization, there is a strong need to *adapt* to new circumstances and *adapt* various systems to new requirements, as well as *tolerate* various changes by *reacting* to them *rationally*, and by regarding the attitudes of the *sustainable development*.

The above-mentioned regularities of global transformations are assessed as very important when trying to adequately perceive and solve the problems of the creation of knowledge based society and knowledge economy (Melnikas 2011, 2013). Of course, regarding the complexity and variety of global transformations, as a unit, it is possible to make an assumption, that other regular-

ities may be highlighted apart from the ones mentioned above.

It must be noted, that the described regularities and aspects reflect the complex problems of the social, political, economic, technological development, which inevitably appear under the creation and development conditions of the modern society and effective economy, and allow highlighting and reasoning the *priorities* of these problems salvation, especially – in the European Union.

5. Conclusions

The research on the processes of globalization, global transformations, as well as new global challenges for the social, economic and technological development of the contemporary society and societal life should be defined as an important scientific research area, especially - as an important and significant field of social science. A wide and deep scientific cognition of the global transformations and of their impact on the processes of social, economic, technological, political development, on the culture and ecological situation, as well as on the security and sustainability in the contemporary world in general and in various countries and regions, should be defined as a particularly important precondition for the modern society and effective economy creation and further development. The processes of global transformations should be identified not only as extremely complicated, multidimensional and contradictory processes, but also as a significant and very important *object* of the scientific cognition, research and academic studies, especially - of the research and studies, which are focused on the needs to solve many current problems typical for the contemporary society, its social, economic, technological, political development, culture and societal life in general, as well as for the contemporary conditions of the European integration and of the development in the space of the European Union.

All processes of global transformations, in general, should be understood as the undivided unity. These processes are an important factor and priority of the social, economic and technological changes and should be perceived as relevant to all spheres of life – meaning social, economic and political life, culture, advancement of science and technologies, interaction with nature in general and environment in particular. These processes should be comprehended as the ones providing social, cultural, political, economic, technological preconditions for modernization of the society and refinement of its life in accordance with the modern future oriented standards, norms and values.

The processes of global transformations should be interpreted as multi-dimensional and extremely complex and uninterrupted global process which manifests itself in cyclical changes and leaps towards higher quality standards, norms and values. The idea of complexity of the global transformations should be implemented in all stages of scientific research, studies and practical activities, including the prioritizing various programmes on multi- and cross-disciplinary research and studies, as well as strategic solutions of the complex character in various stages.

The processes of global transformations in general could be analyzed in the context of *the ideas of synergy effects*: in general, the global transformations may be attributed to the category of *synergy effects oriented changes and development processes*.

Global transformation processes are characterized by a wide variety and may be identified and classified according to various features. The following features may be treated as the most important ones among the features, which should be taken into consideration when identifying and classifying the processes of global transformations:

- features, which characterize natural and climate conditions, as well as their influence on various global changes and situation,
- features, which characterize human resources, their potential, change of its structure, as well as global role of human resources,
- features, which characterize the society, its development, structure, change dynamics, as well as features, which help to describe various types and models of the society itself and its organization, and global spread and spread dynamics of these types and models,
- features, which characterize global variety and spread of cultures, mentalities, value systems, models of lifestyle, and social behavior stereotypes,
- features, which characterize the processes of social, political, economic development, as well as science and technological progress, the impact and consequences of these processes, which appear or may appear globally.

The impacts of global transformations on the modern society in general and on the *changes* in its life, development and progress are *multiple*, *complicated and even contradictory*. Several circumstances determine the *multiplicity and complication* of the impact of global transformations on the society and changes in its life. Firstly, the global transformations themselves are characterized by a *variety of* typical *features*, which inevi-

tably conditions the multiplicity and complication of these transformations and their impact. Secondly, global transformations, as a unit, may be identified as composing different geographically regional or sectoral systems: the variety of different geographically regional or sectoral systems reflects the multiplicity and complication of the impact of global transformations on the society and changes in its life. Thirdly, controversial tendencies, when certain development, progress and change processes evoke positively and negatively assessed results, inevitably appear under the conditions of the variety, multiplicity and complication of the global transformations and their impact on the society and changes in its life. All in all, it is possible to claim, that global transformations, as a unit, are characterized by exceptional complication, variety and multiplicity, as well as great impacts on all changes, which take place in all areas of life, their content and trajectories.

Global transformations, their expression and influence on the modern society and its life are characterized by wide *variety* and significant *common regularities*. Among *common regularities*, typical of global transformations, the following must be emphasized:

- regularities, which reflect universalism and unification processes under the conditions of global transformations,
- regularities of the increasing uncertainties and their expression,
- regularities of unsynchronized development and the expression of resonance effects,
- regularities, which express society's needs to activate innovations, stimulate creativity, and strengthen adaptation and tolerance skills.

The above-mentioned regularities are perceived as very important and significant under contemporary conditions, as well as represented the needs to create and develop the modern society and effective economy and to activate the processes of intensive changes in all areas of societal life and technological progress.

Holistic approach to the scientific cognition should be defined as an especially significant theoretical background of the scientific research on the global transformations and their impact on the social, economic, technological, political development, culture, ecological situation, security and sustainability in the conditions of globalization: this holistic approach should be used in all cases of the scientific research on the contemporary processes of globalization and on the social, economic, technological, political and other changes and challenges in the context of globalization.

In all chains of scientific research, studies and human resource training the means should be implemented oriented towards the adequate response to the emerging needs to consecutively solve the problems that occur in the context of globalization and contemporary global transformations.

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