

## НАЦІОНАЛЬНИЙ ВИМІР ПОЛІТИЧНОЇ ЕКОНОМІЇ

УДК 330.34:330.50



**O. O. ZAVHORODNIA,**  
*doctor of economic sciences, associate professor,  
professor of political economy department,  
National metallurgical academy of Ukraine*

### THE NATIONAL ECONOMY IN POST-NONCLASSICAL PICTURE OF ECONOMIC REALITY: DYNAMIC ATTRIBUTES AND SELECTORS OF MOBILITY IN GLOBAL COORDINATES

The paradigm of global evolutionism is determined as the most adequate and agnostically perspective methodological basis of macroeconomic researches. With evolutionary worldview the characteristic properties and dynamic attributes of the national economy is submitted, its subjugation of evolutionary imperatives of self-preservation and self-development is explained. Features of progressive character of economic changes are concretized. There are discovered the composition and evolutionary caused hierarchy of selectors and purpose-oriented priorities of economic being. The fundamental role of national economic patriotism in system of macro-dynamic selectors is substantiated.

**Key words:** national economy, evolution, global evolutionism, dynamic attributes, evolutionary rationality, progress, selectors of macroeconomic dynamics.

**Problem setting.** At the beginning of the third millennium the variability of social existence acquires a continuous frontal character, without leaving aside any of its planes and, foremost, economic. It is in the economic sphere the latest achievements of creative and innovative activities of a man are incarnating the most intensively, and also brightly and quickly are showing the consequences and results of a new quality of social development. In conditions of heightened dynamicity almost every economic subject is in a situation, when economic passivity, disparity of rhythms, the pace and scales of his own and external changeability got turned around for him by inability to “keep step” with technological progress and to be driven out

by the wayside of global political and economic process. The imperative of his (subject) extended reproduction under the conditions of global transformation changes becomes "...willingness to perceive a new, assimilate him and to be assimilated in him" [1, p. 5], adaptability, the propensity and capacity for innovation self-renewal.

It is clear that for an economic subject the necessary pre-condition of successful decision of these tasks is understanding and creative mastering of genetic sources, principles, factors and mechanisms of development of himself and system of more high-level, in frame of which he functions and recreates himself. Relevant knowledge, on the one hand, create real prerequisites for the forecasting, the programming and securing the future. And from other hand, they help to find out limits, directions and mechanisms of possible purposeful influence on the favourable to subject metamorphoses.

**Recent research and publications analysis.** Actualization of problems of theory, methodology and practice of global and macroeconomic dynamic from a position of direct active involvement of subject into these processes increases the attention to them from the side of scientific association. It is necessary to admit that from the beginning of discussion the most of the divergences are going around the methodological questions. A landmarks in this regard is the next works [5-7; 8-10; 11-13; 15].

Although not all questions are untied, the majority of experts agree that the cognitive abilities of classical and non-classical science in the study of problems of dynamics the modern economic systems of different level of aggregating are limited and state the conflict between objective economic reality, and its base theoretical model [2; 4; 7]. The exit of economic science from the methodological crisis is reasonably connected with the implementation of the post-nonclassical methodological innovations that is offered by philosophy. Primarily, the question is about the integration into the existing methodological leverages of paradigm of global evolutionism and synergetics as its meaningful "core" [3; 6].

It is clear that after the methodological changes that open new cognitive prospects, derivative theoretical innovations and modification of representations about the object of macroeconomic researches are expected. The flip side of leading and until now more active role of methodological constituent in modern dialectics of gnosiology and methodology of macroeconomic researches is a presence of comparatively greater amount of theoretical lacunas that needs to be filling.

**The research objective is** from evolutionary world view positions to present a national economy as a subject of global economic process, to identify and disclose attributive properties and vectors of economic macrodynamics.

**Key research findings.** Global evolutionism inherits and uses and creatively develops a methodological legacy and initial positions of dialectics, evolutionism, synergetics and system approach (figures 1, table 1). The cumulative integrated cognitive potencies substantially exceed the simple sum of possibilities of its separate constituents and can be effectively used for deepening and expansion of scientific ideas about laws, mechanisms and factors of emergence, functioning and developing of the economic systems.

It should be noted that from the beginning the use of the term "global" in this context points to an appearance of a new view on the evolution as on:

- internally contradictory multilinear stochastic process, a priori built-in in all forms of existence and movement of matter which is implemented as a result of the mechanisms actions of inheritance (of succession), variability and selection;
- a particular form of rationality – unconditional imperative of self-preservation, self-development to which obeys the hierarchy of needs of all living being, strategy and tactics of their behaviour, appropriate mechanisms of adaptation, self-renewal and extended self-reproduction in changeable external surrounding. The ability to survive through its own metamorphosis is inherent only to *self-organizing* systems.

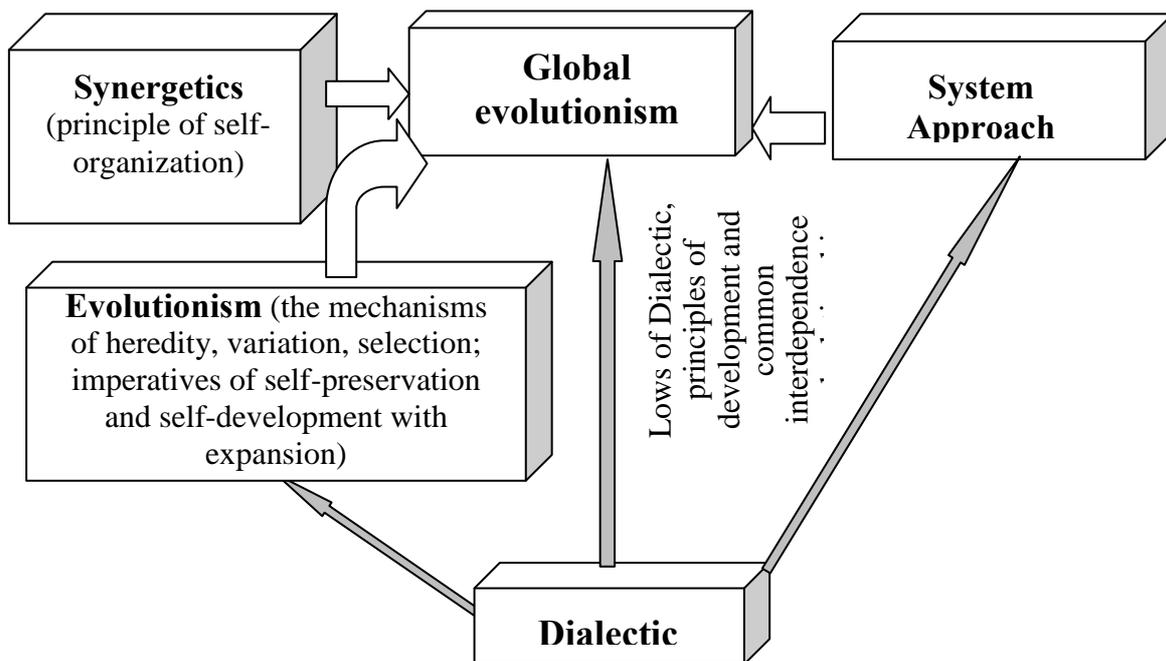


Figure 1. Structural Components of Global Evolutionism, developed by author

### General and the particular in the evolution of economic systems

In order to in the certain system it was synthesized such property as "capacity for self-organization", it simultaneously must be:

- organizationally complex under the condition of sufficiently high degree of autonomy of elements behaviour;
- open under the condition of relative independence and self-sufficiency;
- cooperative and coherent by the nature of interactions between the structural elements of different levels of aggregation.

*The openness* provides the permanent receipt of impulses to variability, allows to compensate the deficit of own resources, involved in transformation processes, and to direct out their certain consequences. *The relative self-sufficiency* lays the objective conditions mainly for the endogenous character of sources and factors of development of the system, determines its relative independence and insubordination to the external surrounding. *Autonomy of elements* generates the great number of unique interactions and trajectories of motion, which significantly complicate morphology of the system and determine unforeseen emergent externalities interelement links. *Cooperativeness and coherences* make it possible to establish a unified rate of co-existence and interactions of separate elements of different ages in their common "tempo world", as a result the processes of micro-level acquire qualitatively original macroscopic properties and forms of display.

Belonging of the economic system to class of capable to self-organization systems a priori endows it with a number of concomitant generic properties and dynamic attributes (tabl. 1), which together determine an orientation and natural movement of its historical way, cause the features of its passage, in particular possibility to be the actor of evolution, is simultaneously to be its subject and object. The attributes of existence of such systems are self-mobility, non-linearity, fractality, cyclical, instability, multi-stationarity, dissipativity, irreversible movement in time, directed selective innovative variability conditioned by the imperatives of evolutionary ratio. A new, the appearance of which certifies the development of the system, is fastened as a result of cultivation and selection on the criteria of efficiency of metabolism, stability and sustainability in time, competitiveness, adaptability, preservation and increase of reproductive potential.

About the progressive character of changes the expansion of the space of the system's economic activity in the long-term period will testify. As a result, it will increase the number of degrees of freedom of elements motion, economic a gene pool and genome will be enriched by the useful novelty, possibilities will grow and differentiated, the behaviour of micro-subjects will become complicated and more variable. And, as, consequence, evolutionary potential will rise. Regressive changes, on the contrary, will be accompanied by a decrease in capabilities of functional self-realization of subjects, homogenization and simplification of structural organization of the system.

**General properties and the dynamic attributes of  
a self-organizing systems (including economic)**

Properties	Content and forms of manifestation
Self-mobility	<ul style="list-style-type: none"> <li>•time is a determinant of intersystem processes;</li> <li>•incentives for movements are predominantly domestic origin;</li> </ul>
Irreversible movement in time	<ul style="list-style-type: none"> <li>•the closing of alternative movement trajectories after passing through the bifurcation point;</li> <li>•lack of symmetry between past, current and future states of the system, non-identical itself at time <math>t-1</math>, <math>t</math> and <math>t + 1</math>;</li> </ul>
Dissipativity	<ul style="list-style-type: none"> <li>•the ability to self-distribute and self-redistribute between elements the energy, materials and information, that were received from outside or were produced and released by the system;</li> <li>•stochastic internal transformation of bound energy of ordered processes into unbound (entropic) disordered processes and vice versa;</li> </ul>
Cyclic recurrence	<ul style="list-style-type: none"> <li>•sequential movement through interconnected, repeated over time stages of the life cycle;</li> <li>•undulating periodic fluctuations in activity levels;</li> </ul>
Fractality	<ul style="list-style-type: none"> <li>•embedding of isomorphic elements and (or) similar processes at each other;</li> <li>•high-level processes are absorbing the low-level processes with acquisition of essentially new macroscopic properties;</li> </ul>
Permanent instability	<ul style="list-style-type: none"> <li>•simultaneous coexistence and interaction in system the diversity asymmetrical (unbalanced) phenomena and micro-processes under the influence of which internally contradictory unstable structure is formed;</li> <li>•permanent volatility over time of the macroscopic parameters of the system caused by the influence of internal and external factors;</li> </ul>
Multi-stationarity	<ul style="list-style-type: none"> <li>•the availability of the set of equilibrium states between which the system can move without endangering its integrity;</li> </ul>
Non-linearity	<ul style="list-style-type: none"> <li>•indeterminism and disparity of causes and consequences;</li> <li>•discontinuous macroscopic qualitative changes upon reaching the order parameters of the system limit values;</li> </ul>

Source: developed by author.

It should be mentioned that specific features (figure 2) inherent exceptionally to the socio-economic systems are stipulated by their human-dimensionality [10].

Cognitive, creative and practical activity of man which interacts with the systems of nature and society, are able to change the spectrum of the possible states and alternatives of development of these systems. With appearance of man and public institutes, a spontaneous evolution turns into nonlinear history in which the

indissoluble dialectical interaction between subject and object of knowledge is embodied most fully. The dynamics of the system begins to be directed by the target programs that are consciously designed and implemented. And self-organization becomes a process whose objective laws and regularities of the deployment in time and space are connected with human's activity. In this activity people are guided by the certain system of the value-cultural, mental-ethical persuasions, frames of rationality. "We are not weak objects of evolution, we are evolution itself", – said E. Jantsch [14, p. 157].

*Frames of rationality are multifaceted stable cognitive structures and semantic contexts of interactions* that set value-semantic content of individual and social life on the level of the collective unconscious. Certainly, among the frames of economic rationality it is deserved for special attention such target reference-points and selectors macroeconomic processes as focus on result, efficiency, social justice, stability, productivity and economy (figure 3, tabl. 2). And, first of all, *national economic patriotism* in which the imperatives of self-reproduction of the national economy in an aggressive competitive environment of the global economy are finding adequate expression.

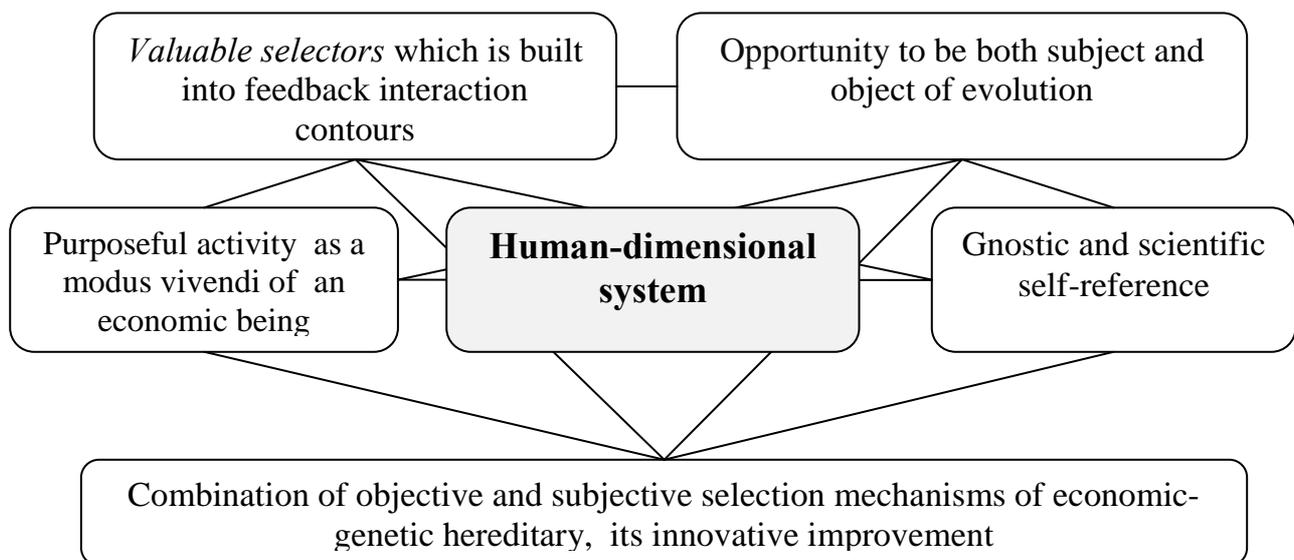


Figure 2. The specific properties of human- dimensional systems, developed by authors.

Note that almost all represented selectors (figure 3& table 2) and their criterion indexes with relevant calculation methodologies got sufficiently broad and thorough coverage in professional economic literature. The only exception is economic patriotism. The necessity of its inclusion in the traditional taxon of selectors of macroeconomic dynamics as the basic resistant element is distinctly appearing in

looking at the economic reality from the evolutionary positions. At the same time it stipulates actuality of his further researches in the context of dialectics of general and specific – nationally unique.

The modern powerful globalization and European integration forces actualize the ideology, theory and practice of *national economic patriotism*. In many countries it acquires the new effective profound characteristics, mechanisms and forms of realization. For regret, the Ukrainian economic patriotism for the present does not mount to competitive level. The Ukrainian economic crisis depth is straight proportional to economic patriotism deficit, and economic patriotism is often identified to anything it's not one.

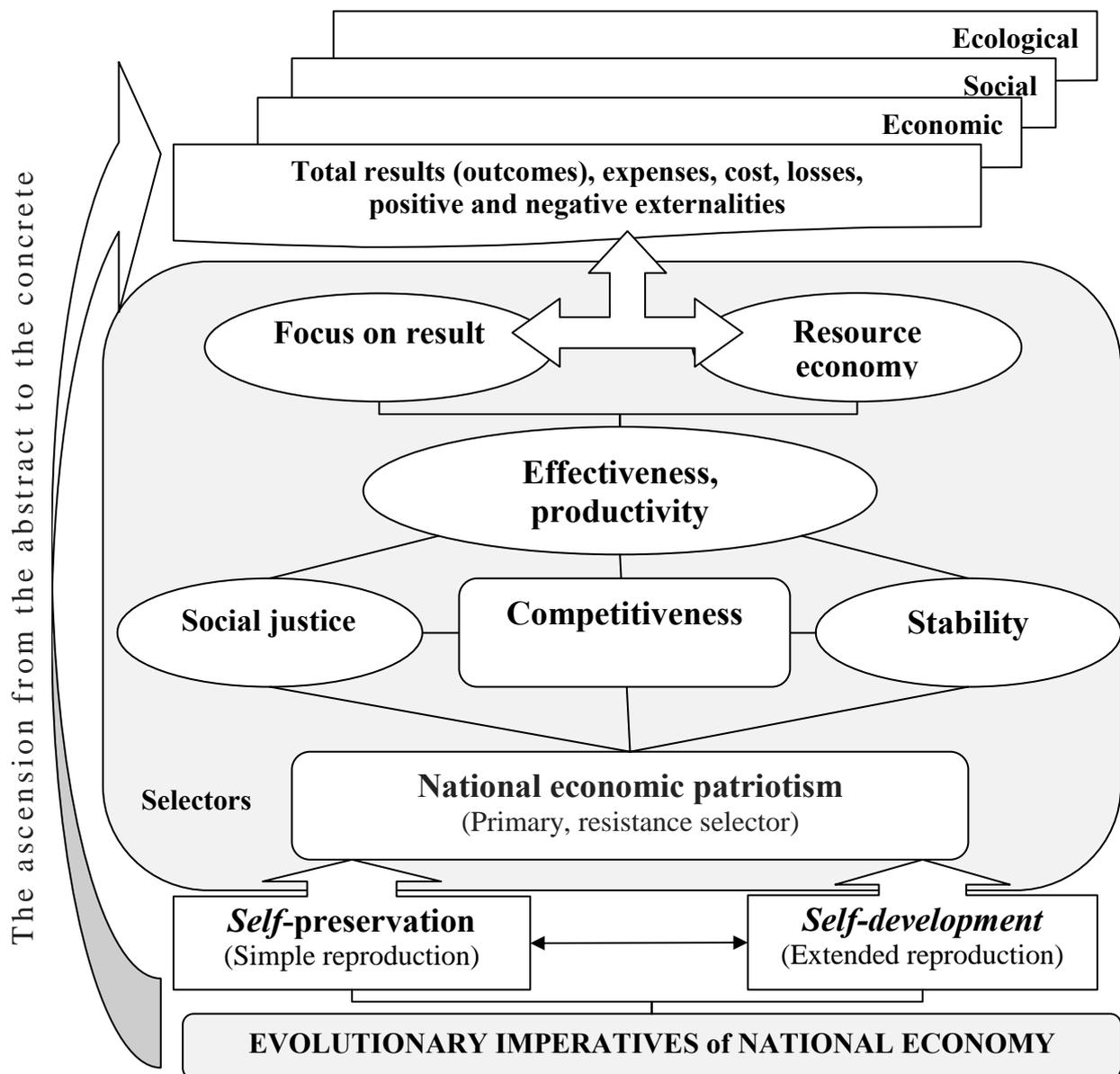


Figure 3. The hierarchy of economic selectors, developed by authors.

**Valuable selectors of macroeconomic dynamics**

Selector	Content
Focus on results	Evaluation of economic activity by the received achievements
Thriftiness, resource economy	Evaluation of the economic activity by the volume of costs and losses
Effectiveness, productivity	Evaluation of economic activity through a comparison of outputs (results) and inputs
Social justice	Evaluation of social-economic activity by the character of dispersion of national income distribution between nation's residents
Stability	Evaluation macroeconomic system's ability to resist internal and external destructive and destabilizing disturbance influences
Competitiveness	Evaluation of the ability of domestic producers: ✓ to win in the competition on the domestic and foreign markets; ✓ to protect the conquered market segments
National economic patriotism	Evaluation of the citizen's ability to defend national economic sovereignty and strategic national interests, to recognize them prioritize and conquer their own micro-models of economic behavior

Source: developed by author.

*Economic patriotism's heart is first place of the national, public economic interests among equal with one economic interests various economic individuals, social groups and clusters. Therefore, development of the economic patriotism require the rise level economic sovereignty, renunciation antinational (European, American and other) patriotism, overcome economic romanticism, utopianism, nationalism, populism and political adventure. And of course economic patriotism is not the economic nationalism [16]. Absolute the economic discrimination for any conventional sings, first of all national one, is inadmissible. The world and European practice convince that country of the commodity birth, initial jurisdiction of businessmen, who is working in national economy, does not very important. This men business must correspond to national legislation and national interests.*

**Conclusions.** Belonging of the economic system to the class of self-organizing systems a priori gives to it the row of concomitant generic characteristics, dynamic attributes and selectors of movement that together define the orientation of its historical path and determine features of its passage. It is about selectors and target reference-points of movement as efficiency, social justice, stability, productivity and economy. And, first of all, it is about *national economic patriotism* in which

imperatives of self-preservation and self-development of the national economy are finding adequate expression.

In this context the search of the most suitable model of social-economic development, the determination in its limits of the optimal pyramid of objectives and behavioral strategies in relation to self-identity in the global economic system and self-reproduction in it without the loss of own personality in all of its diverse forms of display become priority task for Ukraine. In turn, this requires awareness of own civilizational sources, understanding of comparative national uniqueness and self-value in the global environment, specifications of strategic national economic interests and developments of effective mechanisms of their defense.

### Literature

1. Білоцерківець В.В. Нова економіка: зміст та еволюція: монографія [Текст] / В. Білоцерківець. – Дніпропетровськ: Січ, 2013. – 366 с.
2. Гальчинський А. Економічна наука: проблеми методологічного оновлення [Текст] / А. Гальчинський // Економіка України. – 2007. – №7. – С.3-12.
3. Евстигнеева Л.П. Экономика как синергетическая система [Текст] / Л.П. Евстигнеева, Р.Н. Евстигнеев. – М.: URSS, 2012. – 272 с.
4. Каган М.С. Методологические принципы построения современной онтологии [Текст] / М.С. Каган. – СПб: Алетея, 2002. – 714 с.
5. Князева Е.Н. Законы эволюции [Текст] / Е.Н. Князева, С.П. Курдюмов. – М.: Наука, 1994.–236 с.
6. Князева Е.Н. Основания синергетики: Синергетическое мировидение [Текст] / Е.Н. Князева, С.П. Курдюмов. – М: Логос, 2010. – 256 с.
7. Моисеев Н.Н. Универсум. Информация. Общество [Текст] / Н.Н. Моисеев. – М.: Устойчивый мир, 2001. – 198 с.
8. Мочерний С.В. Методологія економічного дослідження: Монографія [Текст] / С.В. Мочерний. – Львів: Світ, 2001. – 416 с.
9. Назаретян А.П. Цивилизационные кризисы в контексте Универсальной истории [Текст] / А.П. Назаретян. – М.: URSS, 2004. – 368 с.
10. Степин В.С. Теоретическое знание [Текст] / В.С. Степин. – М.: Наука, 1999. – 485 с.
11. Blaug M. The Methodology of Economics, or How Economists Explain. 2nd edition [Text] / M. Blaug. – Cambridge University Press, 1993. – 311 p.
12. Boulding K.E. (1991). What is Evolutionary Economics? [Text] / K.E. Boulding // Journal of Evolutionary Economics. – 1991. – №1. – Vol.1. – Pp. 75-109.
13. Heylighen F. The Global Superorganism: an evolutionary-cybernetic model of the emerging network society [Text] / F. Heylighen // Journal of Social and Evolutionary Systems. – 2007. – №.1. – Pp. 58-119.

14. Jantsch E. The Self-Organizing Universe: Scientific and Human Implications of the Emerging Paradigm of Evolution [Text] / E. Jantsch. – New York: Pergamon Press. – 284 p.

15. Nelson R. An Evolutionary Theory of Economic Change [Text] / R. Nelson R., S. Winter. – CambridgeBelknap Press of Harvard University Press, 2002. – 454 p.

16. Tarasevych V. The national economic patriotism and evolutionary imperatives of macroeconomic dynamics [Text] / V. Tarasevych, O. Zavorodnia // Actual problems of economy. – 2016. – №6. – Pp.

### References

1. Bilotserkivets, V.V. (2013). *Nova ekonomika: zmist ta evolyutsiya* [The new economy: content and evolution]. Dnipropetrovs'k: Sich. 366 p.

2. Halchyns'kiy, A. (2007). *Ekonomichna nauka: problemy metodolohichnoho onovlennya* [Economic science: problems of methodological renewal] // *Ekonomika Ukrayiny*. №7. Pp.3-12.

3. Yevstigneyeva, L.P., Yevstigneyev, R.N. (2012). *Ekonomika kak sinergeticheskaya sistema* [Economy as a synergetic system]. M.: URSS. 272 p.

4. Kagan, M.S. (2002). *Metodologicheskiye printsipy postroyeniya sovremennoy ontologii* [The methodological principles of modern ontology]. SPb: Aletya. 714 p.

5. Knyazeva, Ye.N., Kurdyumov, S.P. (1994). *Zakony evolyutsii* [Laws of Evolution]. M.: Nauka, 236 p.

6. Knyazeva, Ye.N., Kurdyumov, S.P. (2010). *Osnovaniya sinergetiki: Sinergeticheskoye mirovideniye* [Bases of synergetics: Synergistic vision of the world.]. M: Logos. 256 p.

7. Moiseyev, N.N. (2001). *Universum. Informatsiya. Obshchestvo* [Universum. Information. Society]. Moskva.: Ustoychivyy mir. 198 p.

8. Mochernyy, S.V. (2001). *Metodolohiya ekonomichnoho doslidzhennya* [Economic research methodology: Monograph.]. L'viv: Svit. 416 p.

9. Nazaretyan, A.P. (2004) *Tsivilizatsionnyye krizisy v kontekste Universal'noy istorii* [Civilization crises in the context of the Universal History]. M.: URSS. 368 p.

10. Stepin, V.S. (1999). *Teoreticheskoye znaniye* [Theoretical knowledge]. M.: Nauka. 485 p.

11. Blaug, M. (1993). *The Methodology of Economics, or How Economists Explain*. 2nd edition. Cambridge University Press. 311 p.

12. Boulding, K.E. (1991). *What is Evolutionary Economics?* //Journal of Evolutionary Economics. N1. Vol.1. Pp. 75-109.

13. Heylighen, F. (2007). *The Global Superorganism: an evolutionary-cybernetic model of the emerging network society* // Journal of Social and Evolutionary Systems. No. 1. Pp. 58-119.

14. Jantsch, E. (1980). *The Self-Organizing Universe: Scientific and Human Implications of the Emerging Paradigm of Evolution*. New York: Pergamon Press. 284 p.

15. Nelson, R., Winter, S. (2002). *An Evolutionary Theory of Economic Change*. CambridgeBelknap Press of Harvard University Press. 454 p.

16. Tarasevych, V., Zavhorodnia, O. (2016). *The national economic patriotism and evolutionary imperatives of macroeconomic dynamics* // Actual problems of economy. №6.

**Завгородня Е.А., д.э.н., доцент, Национальная металлургическая академия**

**Национальная экономика в постнеклассической картине экономической реальности: динамические атрибуты и селекторы движения в глобальных координатах**

Аргументируется адекватность и гносеологическая перспективность использования парадигмы глобального эволюционизма в качестве методологической основы макроэкономических исследований. С эволюционных мировоззренческих позиций презентуются свойства и динамические атрибуты национальной экономики, объясняется ее подчиненность эволюционным императивам самосохранения и саморазвития. Конкретизируются признаки прогрессивного характера экономических преобразований. Раскрывается состав и эволюционно обусловленная иерархия селекторов и целевых приоритетов экономического бытия. Обосновывается основополагающая роль национального экономического патриотизма в системе селекторов макродинамики.

**Ключевые слова:** национальная экономика, эволюция, глобальный эволюционизм, динамические атрибуты, эволюционная рациональность, прогресс, селекторы макроэкономической динамики.

**Завгородня О.О., д.е.н., доцент, Національна металургійна академія України**

**Національна економіка в постнекласичній картині економічної реальності: динамічні атрибути та селектори руху в глобальних координатах**

Парадигма глобального еволюціонізму визначена в якості найбільш адекватної та гносеологічно перспективної методологічної основи макроекономічних досліджень. З еволюційних світоглядних позицій подається характеристика властивостей та динамічних атрибутів національної економіки, пояснюється її підкорення еволюційним імперативам самозбереження та саморозвитку. Конкретизуються ознаки прогресивного характеру економічних змін. Висвітлюється склад та еволюційно обумовлена ієрархія селекторів та цільових орієнтирів економічного буття. Обґрунтовується провідна роль національного економічного патріотизму у системі селекторів макроекономічної динаміки.

**Ключові слова:** національна економіка, еволюція, глобальний еволюціонізм, динамічні атрибути, еволюційна раціональність, прогрес, селектори макроекономічної динаміки.