Olha Ryndzak, Mariia Bachynska

State Institution “Institute of Regional Research named after M. I. Dolishniy of National Academy of Sciences of Ukraine”

Ukraine

CONSERVATION AND DEVELOPMENT OF HUMAN RESOURCES THROUGH THE RETURN MIGRATION POLICY

Purpose. The purpose of the article is to develop the theoretical and methodological foundations for the study of return migration policy based on its information support, including regression analysis and authors’ sociological research on return intentions of Ukrainian migrants.

Methodology / approach. The mathematical tools were used for the assessment of Ukraine’s economical losses, related to migration. With the help of the sociological method (survey) migrants’ intentions and main motives to return were investigated. Stepwise regression model was built for identification of main factors of Ukrainian population’s international migration. Besides, general scientific methods were used in the study, such as: analysis, generalization, systematization, tabular and graphical.

Results. Analysis showed the lack of statistical and sociological information on international migration (particularly return migration) of Ukrainian population. It substantiates the need for improving the system of information provision of migration policy. The results of the survey of the migrants from the Carpathian region of Ukraine (conducted in 2020) show low level of their readiness to return. According to the answers to the questionnaire, there are two main circumstances that could motivate migrants to return: high level of wages and general improving of economic situation in Ukraine. Due to the regression model it was found that the emigration of the population is influenced by the following factors: average monthly wages, gross regional product per capita, foreign direct investment per economically active person and the share of the population with incomes below the subsistence level. The article provides main benefits and ways of implementation of the return migration policy. Particularly, circular migration is considered as a good way to slow down losses of human resources. It is beneficial for all institutional units of the migration process.

Originality / scientific novelty. The methodology for the consequences of international migration study is improved. In particular, the formula for determination of migration losses through the calculation of economic activity losses is proposed and calculated for the first time. The theoretical foundation of return migration policy is developed. In particular, the model of return migration process on the individual level is elaborated. The sociological tool for the return migration investigation is developed and tested.

Practical value / implications. The practical recommendations for the human resources conservation are worked out. The questions for the survey, developed by the authors, could be used in further investigations in this issue. The model of return migration process is useful for developing a comprehensive return migration policy, which could support migrants at all stages of this process: decisions making, movement and reintegration.

Key words: international migration, return migration, circular migration, human resources, migration policy, Ukraine.

Introduction and review of literature. The human potential is the main value
of each society and important precondition for the national development. But intensification of international migration processes and its poor regulation leads to the losses of human potential for certain countries, donors of the workforce. Ukraine is one of them. In recent decades, it belongs to the top-10 countries of origin for international migrants. Generally, the number of emigrants from Ukraine amounted to 6 million persons in 2020 [1, p. 16]. Temporary labor and educational migration is growing rapidly, often transforming into permanent one [2, p. 12–14]. For example, the number of Ukrainian students abroad has increased from 32.9 thousand persons in 2009 [3, p. 9] to 77.6 thousand persons in 2019 [2, p. 14]. Restrictive measures implemented in many countries in response to the coronavirus pandemic spreading have significantly affected the intensity, course and direction of migration processes in the world, but have not stopped them. At the same time, under the quarantine conditions most of Ukrainian labor migrants decided to stay abroad (even without work) instead of returning home [4]. The problem of migration losses and the need to preserve human potential is still relevant for Ukraine because of many negative consequences, connected with poorly regulated international migration. The main ones are as follows: demographic losses (in case of permanent migration); loss of the most competitive productive workforce, ‘brain drain’; high costs of training of specialists, who continue to work outside the country; lack of contributions to pension and social funds (in case of illegal migration); loss of migrants’ qualification, deterioration of their health; worsening of family relations, family breakdown and so on. It exacerbates the need for finding new decisions and migration policy improvement.

Different aspects of the theoretical and methodological foundations of migration policy are developed in a range of recent scientific publications [5; 6; 7]. Due to the intensification of immigration processes to the developing countries, research on immigration policy and current issues of migrant integration are becoming popular. For example, institutional and legal perspectives for EU strategies for the integration of migrants from the third countries are highlighted in the studies of European researchers [8]. One of the latest valuable research concerns the analysis of factors that affect the immigration policies of different countries and determination of the role of ecological factors [9].

It is well known that agricultural sector is one of the most popular for employment of Ukrainian migrants [10, p. 41]. Due to the great impact of international migration on this sector in developing countries, it has aroused the interest of scientists and caused a number of interesting studies in different countries. First of all, they concern immigrants’ farming and employments’ problems in rural areas [11; 12; 13].

Return migration studies are mostly presented by the scientific works devoted to certain countries, programmes or projects. For instance, overview over return migration policy measures developed in Latvia and their evaluation in the light of return migrants’ perspectives are presented in the chapter of the book “The Emigrant Communities in Latvia” [14]. Evaluation of the assisted voluntary return and
reintegration pilot program in Canada was made by Canada Border Services Agency [15]. In Germany very interesting study was devoted to analysing the role of life satisfaction for migrant return intentions [16]. The comprehensive analysis of existing instruments of return migration policies in more than ten countries was conducted by the experts of the International Center for Migration Policy Development [17]. Evaluation of return and reintegration policies in eight OECD European countries was carried out by researchers of this organization [18].

Nowadays there are several global return migration projects initiated by the host European countries. For example, the Programme “Migration for development” is being carried out in Germany (term: 2017–2023). The focus is on professional training and advice on the migration and reintegration in the country of origin. In total, the programme has already provided almost 952 thousand individual measures [19].

Despite the valuable contribution to migration studies made by the Ukrainian scientists [20; 21; 22; 23; 24], there is a shortage of research concerning properly return migration issues in Ukraine. Furthermore, the problem of migration losses of human resources together with insufficient state regulation require further research and finding new solutions.

The purpose of the article. The purpose of the article is to develop the theoretical and methodological foundations for the study of return migration policy based on its information support, including regression analysis and authors’ sociological research on return intentions of Ukrainian migrants.

Results and discussion. Nowadays there is no universally accepted definition of return migration. In the context of international migration, this term is defined by the International Organization for Migration as “the movement of persons returning to their country of origin after having moved away from their place of habitual residence and crossed an international border” [25, p. 186]. Such return can be implemented in voluntary or forced way. For statistical purposes, the United Nations defines returnees as “persons returning to their country of citizenship after having been international migrants (whether short-term or long-term) in another country and who are intending to stay in their own country for at least a year” [26, p. 94].

This study focuses on all forms of voluntary return of international migrants to their origin country, regardless of their further intentions. Consequently, such types of return migration can be distinguished: permanent (return of international migrants to their origin country for permanent residence – resettlement); temporary (with the intention to go abroad again to perform work or provide services). Return migration can be classified by different temporalities [27]. So, we distinguish between long-term (for the purpose of long stay) short-term and circular type of temporary migration.

The most widespread type of international migration in Ukraine is labor one. But there is no precise information on this issue. However, the estimations from 3 to 5 million are widespread [28]. Much smaller is the number of those, who got a job abroad with the help of private employment agencies (Figure 1). It is growing permanently and in 2020 was 86.3 thousand persons. However, it is known that only
very small part of all labor migrants use this way of employment.

Figure 1. Dynamics of the number of Ukrainian citizens employed abroad by the private employment agencies, 2000–2020

*Source:* built by the authors based on data [29].

Thus, there is a lack of statistical and sociological information on international migration (particularly return migration) of Ukrainian population. Studies of temporary labor migration are fragmentary in Ukraine. For example, the State Statistics Service of Ukraine conducted only three national surveys with different frequency (in 2008, 2012 and 2017), devoted to the international labor migration issues. Due to these investigations, we can estimate that in average approximately 40% of Ukrainian labor migrants returned home [30]. At the same time, statistics on international permanent migration is available. Analysis of its dynamics over the past 8 years shows that the number of population returning to Ukraine is very small, compared to those who emigrate (Figure 2).

Figure 2. Dynamics of international migration of the population of Ukraine, 2013–2020

*Source:* built by the authors based on data [29; 31].
In 2020 there were only 1.5 thousand returnees, which is two times less than in 2013. Additional information about returnees from Ukraine is available due to the IOM’s publications on assisted voluntary returns (Figure 2). Such statistics do not exclude the possibility of a double voluntary count. In any case, precise estimation of returns is not the aim of this study, but it is important to show general tendencies and problems.

The growth of migration flows from Ukraine is also evidenced by statistics on first residence permits issued in the European Union. In particular, citizens of Ukraine have been received the highest number of such permits since 2014. And this number has a tendency to increase, except 2020 when the flow of residence permits dropped generally as a result of pandemic (Figure 3). Generally, more than 0.5 million of Ukrainian citizens annually receive residence permits in Europe for the last years, mainly for employment reasons (for example, in 2020 it was 85.8 % of all permits) [32].

Figure 3. First residence permits issued in the European Union for citizens of Ukraine, 2014–2020

Source: built by the authors based on data [32].

In addition to demographic losses Ukraine, as a donor of workforce, carries also general migration ones. Usually, migration losses are estimated through the underproduction of GDP of origin country [33]. Nevertheless, such calculation is problematic in Ukraine because of a lack of necessary information about those, who leave, such as: employment status before migration, level of incomes in the origin and host countries. In addition, the amount of remittances should be considered, which are spent in the homeland. Based on the Lopez’ and Murray’s methodology for measuring losses of healthy years of life [34], we propose to determine migration losses through the calculation of economic activity losses. Since labor migration can have different durations, it is reasonable to calculate the annual losses in person-years of migration (formula 1).

\[
LN_A = N_A \times \sum_{i=1}^{n} p_i \times \frac{\tau_i}{12},
\]

where \(LN_A\) – loss of economic activity, person-years;

\(N_A\) – economically active population, thousands of people;
$t_i$ – period of time, spent in labor migration, month, $i \in [1; 12]$;

$p_i$ – probability of external labor migration.

Using formula (1), we estimated that in 2010 – the first half of 2012 the loss of economic activity amounted to approximately 590 thousand person-years annually, or 2.64–2.67 % of the economically active population of the country annually. During 2015–2017, this indicator was 877.8 thousand person-years annually (calculated on the basis of data from sample surveys on labor migration in Ukraine [30, p. 9]), or from 4.85 to 4.92 % of the economically active population. The increase in losses for that period of time is caused by the increase in the frequency and duration of labor migration as well as by the decrease in the number of economically active population.

Thus, estimation of migration losses is an essential part of migration policy information support and an important precondition of setting its main priorities and efficient measures elaboration. Besides, development of the return migration policy instruments has to be based on consideration of needs and intentions of migrants. Sociological studies can provide such information. Currently there are separate projects and initiatives at different levels to study this issue. For example, we use the results of a sociological survey of international migrants from Ukraine carried out by the authors in the working group (State Institution “Institute of Regional Research named after M. I. Dolishniy of National Academy of Sciences of Ukraine”). The collection of primary information was conducted in March – April 2020. In order to study return intentions the online questionnaire was distributed through the social networks and modern means of communication among adult migrants from the Carpathian region of Ukraine (Zakarpatska, Ivano-Frankivska, Lvivska and Chernivetska oblast (provinces)) which were abroad at the time of the study. One hundred sixty three migrants took part in the survey, of which 55.2 % were female and 44.8 % – male. Most of the respondents were young people in the age of 30 (37.5 %) and 31–45 (50.8 %); the share of middle-aged people (46–60 years) was 6.8 %, elderly – 4.9 %. The average age of the respondents was 35 years.

The results of the survey show that the most common answer to the question about the intentions of migrants to return to Ukraine is: “I would like to return, but I do not see any prospects for myself in Ukraine” (31 %). Another 12 % of respondents have such intention, but they have not decided yet. Every tenth migrant intends to return, but not in the near future. Only about 4 % of respondents decided to return home soon. And the same number of migrants will return after completing training, internships or projects. The share of people living in Ukraine, but sometimes moving abroad to work, is 16.6 %. Another 6 % often travel to Ukraine and live there for some time. The Ukrainians, who will definitely not return to their homeland are 16.6 %.

Thus, the share of migrants who have definitely decided to return to Ukraine is quite small. Under such conditions, it is important to find out what circumstances could motivate migrants to return. The results of the survey show that main motivation factors could be the high level of wages and the improvement of the economic situation in Ukraine (Table 1). In total, the majority of respondents
indicated them (92.6%). Such result is not surprisingly, because it is well known that wages are one of the most important factors of international migration not only in Ukraine but also in many other countries [35].

Table 1

| Circumstances that could motivate migrants to return (in % of the number of observations*, several options were allowed) |
|---|
| **Answers** | % | **Rank**** |
| High level of wages | 51.6 | I |
| Improving the economic situation in Ukraine | 41.0 | II |
| Family reasons | 18.0 | III |
| Guaranteed opportunity to find a job | 17.4 | IV |
| Cessation of the war | 17.4 | IV |
| Favourable conditions for doing business | 16.1 | V |
| Reaching retirement age. Opportunity to receive in Ukraine a pension earned abroad | 14.9 | VI |
| Job loss in the host country | 6.8 | VII |
| Health problems, disability | 5.0 | VIII |
| Effective policy of reintegration of migrants (eg, provision of subsidized housing, favourable conditions for deposits or investments, etc.) | 3.7 | IX |
| Opportunity to receive free education in Ukraine | 1.2 | X |

Notes. *Some temporary labor migrants (8%) didn’t choose any option; almost each of the tenth respondents would not return to Ukraine in any case.

**The ranks of significance are defined by the frequency of the choice of a particular answer.

Source: survey data, 2020.

To sum up, vision of individual prospects or improving the economic situation in Ukraine are very important factors that could motivate migrants to return. It is worthwhile to mention that according to the sociological research lack of seeing prospects or confidence in the future is also a very important ‘push’ factor of international migration [36].

The development of socio-economic policy measures for human resources conservation primarily requires research on the main factors causing external migration in order to their further regulation. That’s why the significance of 20 main factors in terms of regions of Ukraine (2004–2018) which may affect the migration activity of the population were analyzed. Using the method of stepwise inclusion of factor variables in the regression model, several regression equations were constructed. After testing for multi-collinearity four the most significant factors were selected. Consequently, the regression equation is as follows:

\[ Y = 2.4 - 1.85x_1 - 0.73x_2 - 0.07x_3 + 0.08x_4, \]  

where \( Y \) – emigration rate, persons per 10000 populations; 
\( x_1 \) – average monthly salary per employee, USD; 
\( x_2 \) – gross regional product per capita, USD; 
\( x_3 \) – foreign direct investment per one economically active person, USD; 
\( x_4 \) – the share of the population with income below the subsistence level.

In the first model (Table 2), the value of the coefficient of determination R\(^2\) = 0.27 shows that about 27% of changes in the emigration rate can be explained.
by salary. Addition of the second factor, which characterizes the gross regional product per capita, led to an increase in the coefficient of determination to 0.67. The third factor improved the regression model, but only slightly. Generally, the Table 2 shows that the fourth model best describes the changes that may occur in migration processes. The coefficient of determination ($R^2 = 0.76$) shows that 76% of the changes in the value of the emigration coefficient for the analyzed period is due to the factors included in the model. An indicator of the closeness of the correlation for the regression model is the multiple correlation coefficient $R$, which is equal to 0.87. It indicates a close correlation between the emigration rate and the explanatory variables in the equation.

### Table 2

| Model | Indicator | B  | Std | t (21) | p-level |
|-------|-----------|----|-----|--------|---------|
| 1     | const     | 2.72| 1.24| 2.21   | 0.03    |
|       | $x_1$     | -0.63| 0.5 | -4.30  | 0.00    |
|       | $R^2$     | 0.27|     |        | -       |
| 2     | const     | 3.75| 0.74| 5.03   | 0.00    |
|       | $x_1$     | -2.55| 0.41| -6.22  | 0.00    |
|       | $x_2$     | -0.77| 0.11| -6.77  | 0.00    |
|       | $R^2$     | 0.67|     |        | -       |
| 3     | const     | 2.72| 1.05| 2.6    | 0.01    |
|       | $x_1$     | -2.04| 0.55| -3.71  | 0.00    |
|       | $x_2$     | -0.78| 0.11| -6.92  | 0.00    |
|       | $x_3$     | -0.09| 0.06| -2.15  | 0.04    |
|       | $R^2$     | 0.71|     |        | -       |
| 4     | const     | 2.4 | 0.99| 2.42   | 0.02    |
|       | $x_1$     | -1.85| 0.52| -3.56  | 0.00    |
|       | $x_2$     | -0.73| 0.11| -6.77  | 0.00    |
|       | $x_3$     | -0.07| 0.06| -2.15  | 0.04    |
|       | $x_4$     | 0.08 | 0.04| 2.11   | 0.04    |
|       | $R^2$     | 0.76|     |        | -       |

Source: built by the authors.

For checking the regression model for adequacy the F-test was founded ($F = 16.6$). It is bigger than its critical (tabular) value ($F_{crit.} = 2.64$). Thus, with the reliability of 95% it can be concluded that the accepted mathematical model is adequate and on its basis it is possible to draw economic conclusions.

To determine the degree of weight and the direction of influence of each factor on the variation of the dependent variable, the coefficients of elasticity were calculated. The result shows that one percent increase in average monthly salary ($x_1$) and the constant values of other factors included in the model, may reduce the value of the emigration rate by 3.91%. A similar increase in the value of gross regional product per capita ($x_2$) and foreign direct investment ($x_3$) may lead to reducing of outcome variable by 2.97% and accordingly 0.17%. At the same time, an increase in the share of the population with income below the subsistence level ($x_4$) is likely to increase the emigration rate by 0.05%. Hence, the indicators of gross regional...
product and the size of the average monthly salary have the greatest influence on the change in the value of the number of emigrants. In general, according to the constructed regression model, we can conclude that if the values of all factors increase by 1 %, the resulting variable will decrease by 7 %.

Based on the regression model, we assess the probable possibilities of further development of the migration situation in the short term (5 years) until 2023 with different scenarios (Table 3). To predict the number of external emigrants by 2023, we use a scenario approach, which creates several options for possible changes in the values of key indicators that affect the economic situation and migration aspirations in Ukraine: optimistic, tendentious and pessimistic.

The tendentious scenario assumes the preservation of existing trends in Ukraine’s economic development (continuing the trend of rising wages on the background of slow devaluation of the national currency), GRP growth per capita with a slight decrease in direct investment per economically active person. Pessimistic and optimistic ones deviate slightly from the trends of recent years in a positive or negative direction.

**Table 3**

| Indicators                                         | Actual values (2018) | Predicted values for 2019 and 2023 |
|---------------------------------------------------|----------------------|------------------------------------|
|                                                   |                      | Optimistic | Tendentious | Pessimistic |
|                                                   |                      | 2019   | 2023   | 2019   | 2023   | 2019   | 2023   |
| Average monthly salary per employee, USD          | 325.9                | 387.2  | 771.6  | 351.5  | 475.4  | 299.8  | 248.7  |
| Gross regional product per capita, USD            | 70.2                 | 82.4   | 257.3  | 72.1   | 135.1  | 74.8   | 109.5  |
| Foreign direct investment per one economically active person, USD | 1761.8              | 1775   | 1827   | 1727   | 1659   | 1691   | 1560   |
| Exchange rate, UAH/USD                            | 27.2                 | 26.9   | 25.9   | 27.8   | 30.0   | 29.9   | 43.8   |
| The share of the population with income below the subsistence level | 4.3                  | 4.1    | 2.7    | 4.3    | 4.0    | 4.5    | 5.5    |
| Number of emigrants, thousands of people          | 610.7                | 531.8  | 112.1  | 599.4  | 456.7  | 782.9  | 993.6  |

*Source: built by the authors.*

The results of the forecast confirm the hypothesis that material factors have a significant impact on migration activity of the population. Thus, in the optimistic scenario (doubling the average wage in dollar terms and reduction by half the share of the population with incomes below the subsistence level) the number of emigrants may decrease 5 times by 2023 – from 610.7 thousand persons in 2018 up to 531.8 thousand persons in 2019 and up to 112.1 thousand persons in 2023. If the current trends continue, the number of emigrants is also likely to decrease slightly to 456.7 thousand persons in 2023. Decreasing of indicators of material well-being, investment climate deterioration alongside the military and political crisis, financial
instability may cause new waves of migration and increase the number of emigrants to 993.6 thousand persons in 2023. As the official statistic shows, the number of emigrants in 2019 was 554.5 thousand persons [37, p. 159]. It gives grounds for conclusion that the prediction came true according to the optimistic scenario. But it concerns only official permanent migration. Nowadays, it is no doubt that Ukraine is one of the biggest donors of human and labour resources for post-soviet and European countries. In our previous studies we grounded that one of the priorities of state migration policy of Ukraine has to be: reducing the pace and scale of emigration. We called it the concept of “inhibition of migration losses” of the country’s human potential (the word “inhibition” means “slowing down”, “holding”). In this case, the inhibitors are measures of migration policy and other spheres of public administration, which contribute to reducing the scale and pace of international migration. The main directions of the implementation of the proposed concept are presented on the Figure 4. They can be divided into general and special ones. Separate general blocks, which do not provide the development of special migration policy measures but influence the migration potential of the population, are shown by long rectangles at the top and bottom in the Figure 4.

Creating favorable political, economic, social and environmental living conditions

Reducing the emigration rate

Inhibition of migration losses of human potential

Monitoring and regulation of migration factors and motives

Stimulating the return migration, in particular:
- re-emigration and repatriation;
- circular migration

Programs to encourage and promote returning and integration, financial, economic and organizational mechanisms to ensure return; employment assistance, pension schemes, the benefits system

Internal migration increasing

Removing administrative and infrastructural barriers; system of benefits for labor relocations; better access to information on the labor market and to the main goods of the destination regions

Active humanitarian and information policy

Figure 4. Ways of inhibiting migration losses of human potential of Ukraine

Source: authors’ own elaboration [38, p. 81].

Naturally, that high level quality of life, appropriate conditions for socio-
economic development and self-realization of the citizens can reduce their migration potential. There are also three special blocks in the figure: reduction of the emigration flows, stimulation of the external return migration and strengthening the internal migration of the population. It is worth noting that the action of inhibitors should not restrict the human right to free choice of residence and freedom of movement. This study focuses on one of the central block of the scheme, which concerns voluntary return migration. The importance of return migration was stated in Ukraine at the national level in 2017. In particular, one of the main goals of the Strategy of the state migration policy of Ukraine for the period up to 2025 is: “to create the necessary conditions for the return and reintegration of Ukrainian migrants into the Ukrainian society” [39]. But mechanisms for achieving this goal have not been established yet. The Verkhovna Rada has a government project of the law “On Amendments to Certain Laws of Ukraine Concerning Introduction of Assistance for the Economic Reintegration of Migrant Workers”, which aims to encourage the return of migrant workers to Ukraine and prevent them from re-emigrating. However, it has not been adopted yet. Among the current measures it is only the program ‘Available loans 5–7–9 %’ [40].

Generally, the world practice shows a number of different well developed measures for reducing migration losses. For example, one of the most important components of human losses issue is emigration of high skilled persons, which leads to the problem of “brain drain”. Possible policy responses were classified by the specialists of International Labor Organization as the “Six Rs” (cited by [41, p. 9]): 1. Return of migrants to the countries of their origin. 2. Restriction of international mobility to foreign workers 3. Recruitment of international migrants. 4. Compensation for human capital losses. 5. Resourcing expatriate 6. Retention: through educational sector policies and through economic development.

Restrictions of international mobility and the requirement for compensation the costs for specialists’ training contradict the laws of market relations and the fundamental principles of a democratic society, as well as Ukraine’s European integration intentions. In particular, freedom of movement and free choice of residence is guaranteed by the article No. 33 of the Constitution of Ukraine [42]. Therefore, these two options (second and fourth) are not acceptable for the state. Given the limited financial and technical capabilities, attracting highly qualified specialists from abroad is not enough promising measure of Ukraine’s migration policy. Instead, the development of the motivational mechanisms for return of highly qualified specialists and creation of favourable conditions for their reintegration are regarded as more appropriate options for developing countries [41, p. 9]. The implementation of these measures should take place on the background of improving the security situation, promoting the rule of law, ensuring the availability of housing, economic development, improving circumstances for the development of science and education in general. After all, European experience shows that improving the protection of human rights and the general economic situation of the country (the donor of labor force) contributes to the return of migrant workers [43, p. 137].
However, it can be achieved in the long run.

One of the important policy measures to preserve and increase the human potential of the country is to use the resources of migrants and diasporas. It is about creation of the international enterprises, performance of joint projects, the organization of trainings, performances, lectures of migrants from Ukraine who wish to share the knowledge and abilities acquired abroad, to apply them for development of the homeland. Moreover, in the context of European integration and intensification of international migration of the population of Ukraine, it is required to change the approach from “brain drain” to “brain exchange and circulation” [41, p. 18] or “brain gain” [44]. Ukraine, as a signatory to the General Agreement on Trade in Services (GATS), should make efforts to make full use of the potential of the fourth model of service provision (presence of an individual). After all, this model is one of the most promising ways to develop circular migration.

The concept of circular migration took an important place in the formation of the common European Union migration policy in 2005. Since circular migration arises in accordance with international agreements (controlled and organized), it is regarded to be an effective alternative to illegal migration [45].

The main features of the circular migration are: time limitations (temporality) of staying and working abroad; the recurrence of migration movements over a period of time; voluntariness and legality [45]. Generally, the development of the model of circular migration involves: concluding appropriate agreements with recipient countries of labor; improving the pension system for migrant workers with the involvement of countries where they are employed; establishing a system of close cooperation with migrants during their staying abroad. Some experts on public administration and migration policy believe that the systematic circular migration will contribute to the legalization of dual citizenship [45]. In addition, the integration formations (for example, CIS, EU, APEC, etc.) create favourable conditions for the functioning of the circular migration. In particular, there are fewer administrative barriers (eg, lack of visa regime), better infrastructure and socio-economic relations, a simplified system of border control between the member states of a particular association.

It is argued that the model of circular migration is beneficial for all institutional units of the migration process – “triple-win solution” [46, p. 1]. In particular, it allows the country of origin of the migrant to receive remittances earned abroad, to prevent the loss of human resources, as well as to provide “brain circulation” and “brain gain” [45]. The destination country meets the labor market demand for labor at the expense of workers from abroad and at the same time avoids many of the negative consequences associated with permanent migration. It is about significant costs for integration of migrants, their social security, social tensions in society connected with segregation or separation of representatives of certain migration groups, etc. For the migrants themselves, circular migration provides an opportunity for legal employment, social security, a higher level of payment for their work, as well as the acquisition of new knowledge and useful experience. In addition, this model of
migration expands the freedom of choice of residence, receiving social benefits and services, spending earned money, as well as prevents the destruction of social contacts and family relationships.

It is worthwhile to mention that migrant’s decision to return depends on variety structural, policy and individual factors and returning is a complex process, which consists of several stages (Figure 5). There is variety of “push” and “pull” factors in origin and host countries, the strength and direction of which depends on individual attributes (age, gender, educational level, social status etc.) and personal scale of values.

![Diagram of Return Migration Process]

**Figure 5. Return migration process: individual dimension**

*Source: authors’ elaboration.*

Special migration policy measures of both countries can significantly influence on decision making and readiness to return. That is why it is very important to develop effective policy instruments for supporting migrants at all stages of this process: forming motivation to return, movement and reintegration. In addition, those
returnees, who would like to participate in circular migration should get such an opportunity and support from the state.

Thus, effective return migration policy development is a complex process, which requires using all kinds of mechanisms: regulatory and legal (for example, special laws, re-emigration programs, agreements with host countries etc.), administrative (circular migration quotas), socio-economic (employment and business opportunities, migrants’ remittances stimulation, improving the pension system), socio-cultural (cultural reintegration system, educational services for returnees and their children) and information (system of information dissemination, which concerns ways to return and opportunities in origin country for returnees).

Consequently, prospects for further research on this theme are developing mechanisms for new workplaces creation and promoting entrepreneurship for solving the problem of returnees’ employment. Ukraine is an agrarian country, owning a significant part (8–9%) of the world’s black soils [47], has a high potential for agricultural development and for increasing employment in this sector. Moreover, this sector is the most promising under the conditions of European Green Deal implementation. That’s why future research and developing of recommendations should take in consideration existing world experience in large-scale industrial agriculture and forest concessions progress and in starting up organic farming, for example [48; 49; 50].

Conclusions. Migration loss of human potential is one of the most significant negative consequences of external migration. It is a threat to the national security of the state and to its existence in general. Migration has to become an essential part of strategic planning of Ukrainian policy. The main task is not to stop migration but to maximize its benefits and minimize disadvantages. Effective return migration policy is one of the ways for solving this problem.

The sociological study showed a low level of migrants’ readiness to return to Ukraine. One of the important reasons for such situation is that they do not see any prospects for themselves or their children in the native country. Factor analysis and the results of the sociological research give grounds to the conclusion that the reasons for migration and return migration are mostly economical. It means that the socio-economic mechanisms have to be used for regulation of return migration. In particular, the following problems need to be solved: approximation of social standards to norms of the European Union (first of all, raising the minimum salary and ensuring the timeliness of its payments); improving employment opportunities for the economically active population; overcoming corruption at all levels of society. It can raise population’s optimistic expectations and vision of individual perspectives in Ukraine.

Along with the use of economic measures and the solution of the most acute socio-economic problems, it is also important to develop information, educational and cultural policies in order to form a positive image of Ukraine. So, it is an actual requirement to the Ukrainian state authorities for developing an attraction return policy, which aim is to stimulate and motivate Ukrainian migrants to return to their
origin country. On the next stage of return process it is important to facilitate it and then to give reintegration support or to introduce the model of circular migration. Developing of a comprehensive return migration policy can minimize negative effects of international migration for both origin and host countries, as well as for migrants themselves and for their families.

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Citation:

Стиль – ДСТУ:
Ryndzak O., Bachynska M. Conservation and development of human resources through the return migration policy. Agricultural and Resource Economics. 2022. Vol. 8. No. 2. Pp. 105–123. https://doi.org/10.51599/are.2022.08.02.06.

Style – APA:
Ryndzak, O., & Bachynska, M. (2022). Conservation and development of human resources through the return migration policy. Agricultural and Resource Economics, 8(2), 105–123. https://doi.org/10.51599/are.2022.08.02.06.