“Consequences of the financial crisis for the insurance markets of the world and Ukraine”

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Consequences of the financial crisis for the insurance markets of the world and Ukraine

Abstract

The article presents analytical data regarding the influence of the global financial crisis on the activity of the insurance market of some countries. Special attention is given to the dynamics in the development of the insurance market of Ukraine, problems and perspectives of Ukrainian insurance market.

Keywords: financial crisis, insurance market, insurance market of Ukraine, life insurance, non-life insurance.

Introduction

As a result of the global financial crisis almost every branch of the economy has experienced serious losses. In the field of insurance the majority of insurance and reinsurance companies possessed rather conservative investment portfolios, therefore, in spite of the high level of losses in the economy and instability of the financial market in 2008-2009 they did not incur heavy losses. However, the crisis made a considerable impact on their activity.

The goal of the paper is to investigate the state of insurance in some countries and compare the consequences of the financial crisis in this sector of the Ukrainian economy with the situation in other countries. During the investigation we use such methods of research as methods of empirical and theoretical research (analysis and synthesis, modelling) formalization.

1. Main results

1.1. Situation on the global insurance market and insurance markets of different countries. The economic crisis had different consequences for the insurance and reinsurance markets, life and non-life insurance markets, and depending on the regional location of insurance companies and the level of a country’s economic development.

First of all, the financial crisis had a negative impact on the growth of the insurance premiums. According to the data of Swiss Re, in general in the world the nominal volume of insurance premiums in 2008 amounted to 4270 bln. dollars (or 2903 bln. Euro), while the same indicator for 2007 was 4128 bln. dollars. The growth rate of the nominal value of insurance premiums for the period fell and amounted to 3,4% while in 2007 its value was 11,2%. In spite of the growth of the nominal value of insurance premiums, the calculation of the real sums of premiums (with consideration of the changes in the exchange rates and inflation) showed their general reduction in the world by 2% in 2008 and by 1,1% in 2009.

As regards the previous years, the reduction of the real size of insurance premiums on the world market took place in 1980 (Figure 1).

![Fig. 1. Growth rates of the gross insurance premiums during the period of 1980-2009](image)

In the structure of the global insurance market the biggest share belongs to life insurance premiums, namely 58,3% of the volume of general premiums in 2008 and 57,3% in 2009. Among the major types of insurance the dynamics of changes of the real gross insurance premiums varied considerably (Table 1).

Table 1. Growth rates of the world gross insurance premiums according to the types of insurance in the period of 2005-2009, per cent.

<table>
<thead>
<tr>
<th>Indicators</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>General insurance premiums, including:</td>
<td>2.5</td>
<td>4.2</td>
<td>3.6</td>
<td>-2.0</td>
<td>-1.1</td>
</tr>
<tr>
<td>Life insurance</td>
<td>-4.5</td>
<td>-4.3</td>
<td>5.1</td>
<td>-3.5</td>
<td>-2.0</td>
</tr>
<tr>
<td>Non-life insurance</td>
<td>-0.3</td>
<td>4.0</td>
<td>1.5</td>
<td>-0.8</td>
<td>-0.1</td>
</tr>
</tbody>
</table>

On the whole, in 2008-2009 the decrease of the gross premiums for life insurance took place quicker than for non-life insurance. For example, in 2008 the gross premiums fell by 3.5% for life insurance and by 0.8% for non-life insurance. In 2009 the decrease of the gross premiums in the life insurance slowed down and the growth rates for them was -2.0%. As regards gross premiums for non-life insurance, in 2009 their level was stable and compared to the level in 2008 they decreased by only 0.1%.

The general dynamics of the global insurance market development differs significantly from the trends, which are characteristic for the insurance markets of individual countries. This difference is
especially huge in the dynamics of insurance markets of the developed and developing countries (Figure 2). The developed countries include North America, Western Europe, Japan, new industrial countries such as Hong Kong, Singapore, South Korea and Taiwan, as well as a group of countries in Oceania and Israel. The group of developing countries includes countries of Latin America, Central and Eastern Europe, South and East Asia, Middle East, Central Asia, Africa and Turkey.

As we see from Figure 2, the dynamics of changes of the gross insurance premiums in the world follows the situation on the insurance markets of the developed countries. In 2008-2009 the general reduction of the insurance premium volumes in the world was caused by the slowing down on the insurance markets of the industrially developed countries. In its turn, the changes in the volumes of insurance premiums on the insurance markets of the developing countries follow quite different rules. In particular, in 2008-2009 the insurance markets of these countries experienced the growth of the gross premiums. However, the trends on the insurance markets of the developing countries do not have a considerable impact on the general world dynamics because of the very small volumes of these markets.

In spite of their quicker growth compared to the developed countries (the growth rate for the period was on average 9,2% while for the developed countries this indicator was 3,9%) their share in the structure of the world insurance market remains insignificant: 12% in 2008 and 13,1% in 2009 (Table 2).

The developing countries are lagging behind the developed countries in such parameters as the share of insurance premiums in the GDP and per capita volume of insurance premiums. For example, in 2009 the volume of the gross insurance premiums per capita amounted to 3404,9 dollars, which is 37,2 times higher than the corresponding indicator of the developing countries. In the developing countries the volume of the gross insurance premiums in 2009 was 91,5 dollars. Regarding the share of the gross insurance premiums in the GDP, it is almost 3 times higher in the developed countries (8,6% in 2009) compared to the developing countries (2,9% accordingly).

It should be noted that in the development dynamics of life and non-life insurance there also certain differences between the developed and the developing countries. In 2008 the biggest reduction in the insurance premiums (by 5,3%) took place in the life insurance of the industrialized countries, which can be explained by the strong connection to the share market in these countries. The biggest decrease of premiums was observed in the second half of 2008 as a result of the financial crisis.

Table 2. Major indicators of the insurance markets of the developed and developing countries in 2008-2009

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Developed countries</th>
<th>Developed countries</th>
<th>Developing countries</th>
<th>Developing countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Life insurance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross premiums, bln. dollars</td>
<td>2 168,1</td>
<td>2 046,7</td>
<td>271,2</td>
<td>284,6</td>
</tr>
<tr>
<td>Real growth rate, %</td>
<td>-5,3</td>
<td>-2,8</td>
<td>14,6</td>
<td>4,2</td>
</tr>
<tr>
<td>Share of the world market, %</td>
<td>89,1</td>
<td>87,8</td>
<td>10,9</td>
<td>12,2</td>
</tr>
<tr>
<td>Share of the insurance premiums in the GDP, %</td>
<td>5,2</td>
<td>5,0</td>
<td>1,4</td>
<td>1,5</td>
</tr>
<tr>
<td>Per capita insurance premiums, US dollars</td>
<td>2 174,4</td>
<td>1 979,9</td>
<td>47,4</td>
<td>48,8</td>
</tr>
<tr>
<td>Non-life insurance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross premiums, bln. dollars</td>
<td>1 538,7</td>
<td>1 465,8</td>
<td>242,0</td>
<td>248,8</td>
</tr>
<tr>
<td>Real growth rates, %</td>
<td>-1,9</td>
<td>-0,6</td>
<td>7,1</td>
<td>2,9</td>
</tr>
<tr>
<td>Share of the world market, %</td>
<td>86,5</td>
<td>85,7</td>
<td>13,5</td>
<td>14,3</td>
</tr>
<tr>
<td>Share of the insurance premiums in the GDP, %</td>
<td>3,6</td>
<td>3,6</td>
<td>1,3</td>
<td>1,3</td>
</tr>
<tr>
<td>Per capita insurance premiums, US dollars</td>
<td>1 481,0</td>
<td>1 424,9</td>
<td>42,0</td>
<td>42,7</td>
</tr>
<tr>
<td>Total for the insurance branch</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross premiums, bln. dollars</td>
<td>3 706,8</td>
<td>3 532,7</td>
<td>513,3</td>
<td>533,4</td>
</tr>
<tr>
<td>Real growth rates, %</td>
<td>-3,4</td>
<td>-1,8</td>
<td>11,1</td>
<td>3,5</td>
</tr>
<tr>
<td>Share of the world market, %</td>
<td>88,0</td>
<td>86,9</td>
<td>12,0</td>
<td>13,1</td>
</tr>
<tr>
<td>Share of the insurance premiums in the GDP, %</td>
<td>8,8</td>
<td>8,6</td>
<td>2,7</td>
<td>2,9</td>
</tr>
<tr>
<td>Per capita insurance premiums, US dollars</td>
<td>3 655,4</td>
<td>3 404,9</td>
<td>89,4</td>
<td>91,5</td>
</tr>
</tbody>
</table>

In the non-life insurance of the developed countries the decrease of the insurance premiums in 2008 was much smaller (1,9%). In the first half of the 2009 the negative tendencies on the financial market in general remained, which also led to the shrinking of the insurance market. However, from the middle of 2009 there began a rapid growth in the business activity on the insurance market and the results for the developed countries in 2009 were better than in 2008. In particular, the growth rate of the gross premiums was -2,8% in the life insurance and -0,6% in the non-life insurance.
In 2008 in the developing countries there was also a decline in the investment life insurance, although in general in 2008 the level of life insurance growth reached 15%. In 2009 the growth rate in this segment of the insurance market in the developing countries was about 4%. In the non-life insurance the growth rates of the gross premiums in the developing countries were 7.1% and 2.9% in 2008 and 2009. In some regions of the world the difference in the dynamics of the gross premiums on life insurance and non-life insurance was even higher.

The biggest fall in the life insurance premiums in 2008 took place in the countries of Western Europe, in particular, in Great Britain (-25.7%), Ireland (-31.5%), Italy (-11.2%) and France (-10.6%), as these countries have a lot of insurance products with one-time premiums. Markets, where regular premiums dominate, have turned out to be the most stable.

The rapid growth of life insurance premiums in Central and Eastern Europe was determined by their quick growth in Poland (52.8%), which leveled the reduction in the volumes of premiums in other countries of the region.

In 2009 the decline of the life insurance premiums by 2.8% in the developed countries was explained by the fall in the volumes of gross premiums in the USA (-14.6%) and Great Britain (-11.8%). In other countries of the group the reduction of insurance premiums was also observed, especially in the first half of 2009. The only exceptions were Germany, Italy, France and some other countries, where the growth in demand for the traditional life insurance policies was behind the general growth of the gross life insurance premiums in 2009.

In the developing world the growth of gross life insurance premiums was quite high in the countries of the South-East Asia (11.4%), especially in India and China. The positive growth remained in the countries of Latin America and the Caribbean basin (7.8%) having surpassed this figure for 2008 (6.8%). At the same time, in countries of Central and Eastern Europe there was a sharp decline in the life insurance branch, when the growth rate of gross premiums for the period was -20.1%.

The changes in the volume of gross premiums in non-life insurance were less radical than on the market of life insurance.

The biggest decline in the non-life insurance in 2008 took place in the United States, while, in general, the reduction of premiums for this type of insurance was characteristic for all industrialized countries.

In 2008 on the developing markets the process of growth continued, but compared to 2007 its rate had slowed down in all the countries of this group, except Latin America. The region of Central and Eastern Europe was characterized by the biggest slowing down of the growth rate in 2008, as these countries were significantly influenced by the changes in the Western Europe.

In 2009 the insurance markets of the developed countries experienced only a brief reduction of the gross premiums compared with 2008: -1.5% for North America and -0.5% for the countries of Western Europe.

In the developing countries the market of non-life insurance experienced different tendencies. In the majority of countries of this group the growth of gross premiums continued. In the region of the South-Eastern Asia the growth of gross premiums reached even 13.9%. At the same time, in the countries of Central and Eastern Europe the market of non-life insurance shrank rapidly with the growth rate of gross premiums -7.5%.

Regarding the reinsurance transactions on the global insurance market, as a result of the financial crisis the volume of the gross premiums received by the reinsurance companies fell sharply (Table 3).

Table 3. Global volume of the gross reinsurance premiums in 2004-2009

<table>
<thead>
<tr>
<th>Indicator</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross reinsurance premiums, bln. dollars</td>
<td>186.3</td>
<td>190.8</td>
<td>190.8</td>
<td>209.4</td>
<td>168.4</td>
<td>165.5</td>
</tr>
<tr>
<td>Gross rates, %</td>
<td>x</td>
<td>2.4</td>
<td>0.0</td>
<td>9.7</td>
<td>-19.6</td>
<td>-1.7</td>
</tr>
</tbody>
</table>

In 2008 the general volume of gross reinsurance premiums amounted to 168.4 bln. dollars, which is 19.6% less than in 2007. In 2009 the gross reinsurance premiums declined to 165.5 bln. dollars. Therefore, the reduction of the gross premiums in 2009 was only 1.7%, which testifies to the stabilization of the situation on the reinsurance market and makes ground for cautious hopes for the beginning of growth of reinsurance volumes in 2010.

Dynamics of changes on the global reinsurance market is shown on Figure 3.

Fig. 3. The dynamics of gross reinsurance premiums in the world in the period of 2004-2009
Considering the peculiarities of the functioning of the insurance and reinsurance markets the influence of the crisis on them was somewhat different. As a result of the crash on the securities markets and the reduction in the profitability of investment portfolios the majority of experts were forecasting the growth of rates on the market of non-life reinsurance in 2009. In reality, the European insurance market did not see a considerable growth of the reinsurance costs. In the USA, on the contrary, there was a huge leap in the price on reinsurance services in the regions prone to natural and industrial disasters. As a result of this the reinsurance rates for property risks were set at the level of 15-20%. Therefore, along with crisis on the financial markets the main factor for the growth of reinsurance costs in 2009 were the losses from the natural and industrial disasters and sizable expenditures of reinsurers on the repayment of compensations.

Contrary to the expectations that the growth of reinsurance costs and the decline of insurance companies’ capitalization would lead to the increases in the cost of initial insurance, this did not happen. The insurance market went through the growth of competition, because, as a result of the economy’s slowing down the demand for insurance services reduced, which kept the insurers from raising the insurance rates.

The growth of rates for different types of insurance services was observed in some countries. In spite of the fact that the decline of the economy stopped, its renewal has not begun. According to the forecasts, long-term consequences of the economic recession will be keeping insurance rates from growing at least till 2011.

The insurance companies are very restricted in the instruments of influence on the formation of their services’ value, therefore the main method for the regulation of the insurance activity’s profitability is underwriting.

Unlike non-life insurance, tendencies on the insurance and reinsurance markets in the area of life insurance were similar. As a result of the crisis the general reduction of the demand for the traditional life insurance services cut the size of insurance rates and reduced the volumes of sales of this insurance product. Accordingly, the size of reinsurance premiums was also reduced.

On the life insurance market reinsurance companies are influenced by the same factors as first hand insurers. This explains the common trends on both the insurance and reinsurance markets in the area of life insurance. At the same time the position of reinsurance companies is relatively better. The range of services provided by reinsurance companies is much narrower than first hand insurers, which makes it possible to reduce the volatility of the market. A lot of companies offer reinsurance coverage on various types of insurance, thus diversifying their risks. Besides, the reinsurance companies are able to form more conservative investment portfolios compared with first hand insurers.

In general, the companies engaged in life insurance were the ones that suffered the most from the financial crisis. The situation of reinsurance companies is relatively better and can become one of the sources of the further development of this sector of the insurance market, as the general reduction of capital of the life insurance companies can cause the growth of their demand for reinsurance services. Another way to expand the activities of life insurers is the search of non-traditional risks, which are not directly connected to the death insurance and pension insurance.

The main results of the financial crisis for the insurance and reinsurance companies became the increased attention to the processes of price formation and underwriting aimed at preserving the capital.

The financial crisis and the decline in the economy forces most insurance companies to reconsider the system of risk assessment and risk management. Although some insurers continue to view the risk management of their activity as a necessity to correspond to certain norms, the majority of them are actively using risk management on all stages of the formation of costs for insurance services.

From the point of view of insurance companies risk management can be viewed in two aspects. On the one hand, risks, which occur in the activity of other companies are the objects of insurance. On the other hand, insurance companies in order to maintain the stability of their activity must manage their own risks in an effective way.

At present there is a good system of management by means of insuring financial risks, market volatility, untimely payments, etc. At the same time there is a need in creating an efficient system of managing new risks. These risks are connected with the use of information technologies, human capital, climate and other environmental changes, etc. The management of these risks is a huge potential for both risk managers and insurance companies.

The performance of insurance companies is influenced by a huge number of factors, which carry additional opportunities or threats. Considering the volatility of the internal and external environment of companies’ activities it is necessary to study and analyze these changes. An important phase in risk
management is the assessment of their impact on the companies’ performance and focusing on the most important factors.

According to the results of the study conducted by the Munich Reinsurance America Inc., among 40 managers of the insurance companies in the USA, who were surveyed 85% emphasized weak economic situation as the most negative factor influencing the external environment in 2009. Another problem is low interest rates and income per capital as pointed out by 41% of the respondents. An important factor is also the impact of the restrictive state policy mentioned by 23% of the respondents.

Insurance companies, which carry out an efficient management of risks, are the most reliable: they can fulfill their duties towards the insured in case of unexpected situations. For this reason, while assessing insurance companies, the majority of the rating agencies pay special attention to their programs of risk management.

The use of risk management in the process of decision-making contributes to the improvement of market, price and investment policies, underwriting criteria, reinsurance policies and capital management.

The application of complex technologies and modeling in risk management gives an insurance company an opportunity to use more flexible price policy. The capital of an insurance company is used to cover unexpected losses, therefore the cost of capital can be considered as a loss changes function. In such a way, an insurance company can offer a lower price of services. On the contrary, insurers with excessive fluctuation of losses receive higher costs of services.

For modern insurance companies risk management is one of the key sources of competitive advantages. The effective risk management must help not only defend companies from possible financial losses, but support their business reputation.

One of the consequences of the financial crisis has been the reduction of profits of insurance companies from investment activities. This has drastically diminished the companies’ solvency both in life and non-life insurance sector.

The analysis of the major aggregate indicators of the solvency of the leading insurance companies in the field of life insurance makes it possible to formalize the main tendencies during 1999-2009. In 2008 the profitability and risk capital of life insurance companies decreased. Because of the low investment profits, high cost of guarantees and low level of rewards for asset management, the profitability of life insurers fell in 2008 after the constant growth in the period from 2002 to 2007. Analysts say that the risk capital of insurers was reduced to 30-40%, although in some companies the reduction reached 70%. In the second half of 2008 the access to capital became more difficult. The same was true for 2009.

In 2008 the solvency of life and non-life companies fell almost to the level of 2003, which had also been a crisis year in the activity of financial institutions. At that time the European insurance companies suffered the most. The crisis of 2008 began in the USA as its market of credit resources received the biggest negative impact while European companies did not focus their activities on shareholder capital as they did in 2000-2001.

It is necessary to emphasize that the level of solvency in the world before the crisis was quite high. In 2002-2007 shareholder capital was growing quicker than the income from premiums which also increased the paying capacity of insurance companies. But in the beginning of the financial crisis the shareholder capital and financial assets began to lose their value. This collapse could not be compensated by the increase in the value of state bonds (considering the lowering of interest rates on state bonds). As a result, the industry of non-life insurance lost 15-20% of their shareholder capital, while the indicator of paying capacity fell by 100%. The indicator of paying capacity returned to the level of 2003. In 2008 one witnessed a dramatic reduction in the solvency of non-life insurance companies, which was caused by the falling rates on financial assets. However, it is important to point out that in 2009 the solvency level of the insurance companies of the United States, Canada, United Kingdom, Germany, Italy, the Netherlands, Japan and Australia began to grow, which was explained by the speedy formation of shareholder capital by insurance companies. These trends play a positive role in the post-crisis activity of global insurance companies and make it possible to forecast the renewal of the efficient functioning of financial institutions.

The level of capitalization has an impact on the stability of an insurance company and its paying capacity. One of the steps to raise the stability of a company, increase its capital and improve its competitive position on the market is the merger or acquisition with other companies possessing a stable portfolio.

In the recent years one observes a tendency towards the growth of concentration on the insurance market. The leading companies are expanding their activity, acquiring small and medium insurers. In Europe the wave of mergers and acquisitions began in 2000, which was the result of liberalization and deregulation processes in the European Union at the end of 90s. It brought a
The decrease of the world insurance premiums changed: in influence of the financial crisis they somewhat were stable, but in 2008 as a result of the negative profitablity enterprises fallen.

The global insurance market trends in 2004-2007 income of the population reduced, the number of increased, the national currency rate destabilized, the GDP growth rates slowed, the inflation in-between, the economic situation has considerably deteriorated, the insurance market of Europe. For example, the general volume of insurance premiums was dramatically reduced in 2008. The decreasing number of insurers was also typical for Poland while in other European countries their number was more or less stable.

The processes of capital concentration on the insurance market have both positive and negative consequences. On the one hand, the financial stability of companies goes up. On the other hand, the declining number of companies leads to smaller competition on the market. A considerable monopolization of the market can lead to overpriced insurance services and insufficient satisfaction of customers’ needs.

1.2. Situation on the insurance market of Ukraine.

The global financial crisis has taken a lot of advantages and potential opportunities away from the insurance market of Ukraine. For example, the general economic situation has considerably deteriorated, the GDP growth rates slowed, the inflation increased, the national currency rate destabilized, the income of the population reduced, the number of profitable enterprises fallen.

The global insurance market trends in 2004-2007 were stable, but in 2008 as a result of the negative influence of the financial crisis they somewhat changed:

- Developing countries have demonstrated rapid growth rates of their national markets, while stagnation prevailed on the markets of the industrialized countries.
- The decrease of the world insurance premiums in 2008 was 2%, life insurance premiums – 3,5%, risk insurance – 0,8%. The quickest growth took place in the countries with developing economies.
  - The profitability of insurance in 2008 compared to 2007 decreased both for life insurance and risk insurance.
  - Shareholder capital was reduced by 15-20% in risk insurance and 30-40% in life insurance.

In 2009 the majority of these trends remained, but they were less pronounced. The general volume of insurance premiums in 2009 was reduced by 1.1% while in 2008 it was reduced by 2,0% (Table 4).

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Life insurance</th>
<th>Non-life insurance</th>
<th>General premiums</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>2009</td>
<td>2008</td>
<td>2009</td>
</tr>
<tr>
<td>Developed countries</td>
<td>-5,3</td>
<td>-2,8</td>
<td>-1,9</td>
</tr>
<tr>
<td>Developing countries</td>
<td>14,6</td>
<td>4,2</td>
<td>7,1</td>
</tr>
<tr>
<td>World</td>
<td>-3,5</td>
<td>-2,0</td>
<td>-0,8</td>
</tr>
</tbody>
</table>

Moreover, the improvement on the stock market and credit market has made it possible to increase the capitalization of the insurance companies in 2009. This is especially true for non-life insurers. This had a positive influence on the renewal and growth of insurers’ solvency.

In 2009 Ukraine occupied the 52nd place in the world (46th place in 2008, 48th place in 2007, 47th place in 2006, 45th place in 2005 and 42nd place in 2004) according to the collected insurance premiums as well as the ratio of insurance premiums to GDP and insurance premiums per capita.

In 2008 the insurance market of Ukraine occupied 0,10% of the world insurance market while it had only 0,06% in 2009; in the risk types of insurance it had roughly 0,23% in 2008 with the same indicator for 2009 – 0,00%; the share of life insurance was 0,01% in 2008 with 0,09% in 2009.

According to such indicator as the ratio of insurance premiums to GDP per capita the Ukrainian insurance market belongs to the group of countries such as Russia, Hungary, Slovenia, Romania and Serbia.

In 2002-2009 the average growth rate of insurance market in Ukraine was 46,6% of the authorized funds of insurance companies. The volume of authorized funds of insurers grew by 6,5 times compared with the year 2002. In 2009 the volumes insurance payments fell by 14,9%. These data is shown on the background of macroeconomic indicators in Table 5.
Table 5. Major macroeconomic indicators of Ukrainian insurance market in 2002-2009

<table>
<thead>
<tr>
<th>Indicators</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDP, mln. gryvnas</td>
<td>225,810,000</td>
<td>267,344,000</td>
<td>345,113,000</td>
<td>441,452,000</td>
<td>544,153,000</td>
<td>720,731,000</td>
<td>949,864,000</td>
<td>914,720,000</td>
</tr>
<tr>
<td>GDP, mln. US dollars</td>
<td>42,392,900</td>
<td>50,133,000</td>
<td>64,880,600</td>
<td>86,142,000</td>
<td>107,753,100</td>
<td>174,219,000</td>
<td>240,335,700</td>
<td>122,000,000</td>
</tr>
<tr>
<td>GDP index of actual volume, %</td>
<td>105.2</td>
<td>109.6</td>
<td>112.1</td>
<td>107.2</td>
<td>107.3</td>
<td>107.3</td>
<td>102.3</td>
<td>84.9</td>
</tr>
<tr>
<td>Exchange rate, USD/UAN</td>
<td>5.3</td>
<td>5.3</td>
<td>5.3</td>
<td>5.1</td>
<td>5.0</td>
<td>5.5</td>
<td>5.3</td>
<td>7.9</td>
</tr>
<tr>
<td>Insurance payments, mln. gryvnas</td>
<td>4,442,100</td>
<td>9,135,200</td>
<td>19,431,300</td>
<td>12,826,100</td>
<td>13,830,200</td>
<td>18,008,200</td>
<td>24,008,600</td>
<td>20,442,100</td>
</tr>
<tr>
<td>Rates of growth+/ decline-, %</td>
<td>46.6</td>
<td>46.6</td>
<td>112.7</td>
<td>-34.0</td>
<td>7.8</td>
<td>30.2</td>
<td>33.3</td>
<td>-14.9</td>
</tr>
<tr>
<td>Insurance payments to GDP, %</td>
<td>2</td>
<td>3.4</td>
<td>5.6</td>
<td>3</td>
<td>2.6</td>
<td>2.50</td>
<td>2.53</td>
<td>2.1</td>
</tr>
<tr>
<td>Insurance payments per capita, gryvnas</td>
<td>92.5</td>
<td>191.8</td>
<td>411,273.3</td>
<td>296.5</td>
<td>359.3</td>
<td>520.3</td>
<td>447.3</td>
<td></td>
</tr>
<tr>
<td>Insurance payments per capita, US dollars</td>
<td>11.9</td>
<td>36</td>
<td>77.3</td>
<td>53.3</td>
<td>58.7</td>
<td>70.7</td>
<td>98.8</td>
<td>57.4</td>
</tr>
</tbody>
</table>

The study of the main patterns of insurance market’s functioning is possible not only on the basis of absolute indicators, which characterize only general tendencies, but also by considering their relationship with relative indicators showing the aspects of a deeper structural analysis. For example, the indicator of insurance market profitability in Ukraine should be studied as correlation of gross insurance premiums to GDP. This indicator characterizes the importance of the insurance branch for the country’s economy in general.

One more indicator is the ratio of gross insurance premiums and gross insurance payments to GDP. This indicator reflects the share of premiums earned by the insurance companies to GDP. If insurers have paid off more insurance premiums than they collected this indicator will be zero or negative.

The indicator of the ratio of insurance companies’ general assets to the number of companies characterizes the average size of assets of one insurance company, which makes it possible to determine the concentration of capital on the insurance market.

The correlation of the companies’ number to the quantity of the population shows the number of the population for one insurance company. In other words, this reflects the extent to which insurance services are popular among the population.

The indicators making time series are shown in Table 6.

Table 6. Indicators of insurance market activity in Ukraine

<table>
<thead>
<tr>
<th>Indicators</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross insurance premiums/GDP</td>
<td>0.015</td>
<td>0.020</td>
<td>0.034</td>
<td>0.056</td>
<td>0.029</td>
<td>0.025</td>
<td>0.025</td>
<td>0.025</td>
<td>0.022</td>
</tr>
<tr>
<td>(Gross insurance premiums – Gross insurance payments)/GDP</td>
<td>0.013</td>
<td>0.017</td>
<td>0.031</td>
<td>0.052</td>
<td>0.025</td>
<td>0.021</td>
<td>0.019</td>
<td>0.018</td>
<td>0.015</td>
</tr>
<tr>
<td>Assets/number of companies (mln. gryvnas/companies)</td>
<td>9,169</td>
<td>15,767</td>
<td>29,292</td>
<td>51,713</td>
<td>52,563</td>
<td>58,381</td>
<td>72,226</td>
<td>89,404</td>
<td>93,18</td>
</tr>
<tr>
<td>Number of companies/Population (companies/mln. people)</td>
<td>6,799</td>
<td>7,068</td>
<td>7,525</td>
<td>8,216</td>
<td>8,514</td>
<td>8,845</td>
<td>9,655</td>
<td>10,204</td>
<td>9,85</td>
</tr>
</tbody>
</table>

The influence of the global financial crisis on the economy of Ukraine can be shown with the following data:

- The negative trade balance in 2009 was 2,022 bln. US dollars (against 8,2 bln. US dollars in 2007 and 14,3 bln. US dollars in 2008). We should also pay attention to the fact that in the first quarter of 2010 the deficit of the balance of payments reached its lowest value since the beginning of the crisis – 780,0 mln. US dollars. This was caused both by the balancing of the current operations (the deficit was reduced to 184,0 mln. US dollars in comparison to 654,0 mln. US dollars for the same period in 2009) and the reduction of financial outflows, which testifies to positive trends in the foreign economic activity of the country.
- As regards the tendencies in the formation of the gross foreign debt, in 2008 it increased by 25.6% and on January 1, 2009 and reached 103,2 bln. US dollars (56.7% of the GDP). In conditions of the limited access to external financial resources caused by the global financial crisis the growth rate of this indicator during 2009 slowed down significantly and was only 2.3%. The volume of the foreign debt of Ukraine was 104,0 bln. US dollars (88.9% of the GDP) as of January 1, 2010. It is also interesting to have a look at the structure of debt in different sectors of the country’s economy: in 2009 the debt of the banking sector was replaced by the debt of state management sectors and monetary regulation authorities. The share of the latter increased from 16.4% to 23.1%, while the share of the banking sector fell from 38.8% to 29.6%. As of April 1, 2010 the foreign debt of Ukraine was 102,8 bln. US dollars, 29.4 bln. of which were the debts of banks.
- In 2008 the exchange rate of gryvna to dollar decreased by 52.2%. In the first quarter of 2010 it was somewhat revalued by 0.75% from 7,985 gryvnas for one US dollar at the end of 2009 to 7,925 gryvnas for one US dollar in March 2010.
Considering the devaluation of gryvna in 2008-2009, we can say that it had a significant impact on the insurance market, in particular, on the growth of insurers’ losses, reduction of insurance agreements and a sharp decrease of the insurers’ solvency.

The results of the year 2009 show that according to most indicators of insurance activity the decline was bigger compared to 2008. The dynamics of indicators for the period reflects the following trends:

- The number of signed agreements fell by 2.1%, while the number of agreements signed with physical persons grew by 2.7% (with the exception of agreements of the compulsory insurance from accidents in transport: their number in 2009 was 552 628 982 and declined by 15.4%).
- The volumes of gross insurance premiums fell by 14.9%, while the net insurance premiums fell by 20.8%.
- Gross insurance payments decreased by 4.4%, net insurance payments – by 7.5%.
- Reinsurance volumes decreased by 1.9%, including the volumes of premiums paid on the internal market – by 3.0% and premiums paid on the external market – by 6.4%.
- Insurance reserves decreased by 7%.
- Gross assets decreased by 0.1%, including legally determined costs for insurance reserves – by 0.9%.
- The number of insurance companies fell by 4.1% (19 companies). By the end of 2009 the total number of insurance companies was 450, including 72 life insurance companies (decrease by one company) and 378 non-life insurance companies (increase by 18 companies).

Experts of the State commission on the regulation of financial markets say that in 2009 the insurance market encountered the following problems:

- Collapse of the stock market.
- Growth of risks connected with investing into assets of financial institutions and bad loan risks.
- Increase of distrust of the population to financial institutions because of the refusal of some of them to carry out their obligations.
- Currency and exchange-rate instability.
- Lack of cooperation between banks and non-banking financial institutions aimed at insuring the access of non-banking financial institutions to resources on deposit accounts.
- Continuation of negative inflationary expectations of the population.
- Deepening of the shadow economy.

- Reassessment of the value of investment assets through currency, credit and other risks, which can lead to the reduction of financial institutions’ net assets.

We can forecast two ways of insurance market development in Ukraine: pessimistic and optimistic. If only insignificant changes in the legislature take place and the existing conditions for the insurance companies continue the insurance market of Ukraine will develop only when the premiums grow faster than payments, which will be possible only with the extension of the customer base, dumping tariffs on insurance services and introduction of some types of compulsory insurance (medical insurance). But in case the economy does not grow the above mentioned policy will be impossible and would result in the insurers’ failure on their obligations.

Such scenario will not lead to significant transformations on the insurance market, which will worsen the crisis even more. The growing volumes of non-payment on insurance compensations and the bankruptcy of insurance companies will lead to the loss of trust to insurance in general.

It is necessary to emphasize, though, that the insurance market of Ukraine has a huge potential for development. The success will depend on the solution of problems dealing with increasing demands to the organization of insurance activity. Harsh regulation of the liquidity level and justifiable assets of insurance companies will contribute to increasing capitalization of Ukraine’s insurance market.

**Conclusions**

The research has shown that instability of the financial system in 2008-2009 had a negative impact on the development of the world insurance market, but did not lead to catastrophic losses. The consequences of the financial crisis influenced the activity of life and non-life insurance companies in a different way (the level of a country’s economic development also played a role). Life-insurance companies found themselves in the worst circumstances. In the developing countries in spite of the difficult situation the growth of the insurance sector continued, although the rate of development was slower than in the previous years. Beginning from the second half of 2009 there began a renewal and stabilization of the insurance market in the developed countries, which is proved by the increased levels of capitalization and solvency of insurance companies.

It is necessary to emphasize that the global financial crisis deprived the Ukrainian financial and insurance markets of a significant part of its advantages and potential opportunities.