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THE FINANCIAL ANALYSIS OF THE MAIN FINANCIAL INDEXES AND ITS USE

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The bankruptcy risk and the possibility of bankruptcy are of a major interest for banks, financial institutions, clients, etc. but also for investors and for the firms' managers. In the course of time, the diagnosis of bankruptcy had an impetuous development due to the use of statisticalmethods in the risk analysis.

If this organization is insolvent, it is important to examine the level of insolvency (in other words, to check if it is temporary or permanent insolvency). It is necessary for making the decision what to do with the organization (if it is possible to reorganizate or it is better to liquidate this organization (to let it pass through the procedures of bankruptcy).

The simplest way of financial analyses of bankruptcy is to examine some important indexes.

This type of analysis allows to investigate the levels of insolvency and to divide enterprises to bankrupts, enterprises with difficult financial situation and solvent enterprises.

According to the bankruptcy legislation of our country, there are three main financial indexes:

The first is the index of current liquidity (K1). It shows the level of working assets of an organization for its business.

The second is the index of the provision of an organization with own working assets (K2) which are needed for its financial stability.

And the third one is the index of the provision of financial obligations with assets (K3). It shows the possibility of an organization to pay all its debts after its assets are sold.

All this indexes have their norms, which are different for different branches of economy. Only K3 has its permanent norm for all branches.

If the level of indexes K1 and K2 of an organization are higher than their norms and the level of index K3 is lower than its norm, that means the organization is solvent.

If the situation is the opposite, that means that the organization is insolvent.

In this case the level of insolvency can be defined. So, if K1 and K2 are lower than their norms during one financial period (financial quarter) that means that the organization has temporary insolvency. And it is possible to rescue its financial situation by taking some simple financial measures.

If K1 and K2 are lower than their norms during four financial periods (financial quarters), that means that the insolvency of the organization is going to be permanent. And more serious financial measures are to be taken (like reorganization).

If K1 and K2 are lower than their norms during one financial period (financial year) and K3 is higher than its norm that means that the organization has permanent insolvency and this organization is a bankrupt. Only the liquidation of this organization is possible in this case.

Nowlook at some examples. So, for thatlet us imagine that 6 organizations are working in the sphere of heavy industry. The norms of indexes for heavy industry in our country are the following: K1 has to be higher or equal to 1.30; K2 has to be higher or equal to 0.20 and K3 has to be lower or equal to 0.85.

organizat	indexes	financial pe	riods	norms	the level of			
ions		1	2	3	4	5		solvency
		01.01.18	01.04.18	01.07.18	01.10.18	01.01.19		(insolvency)
А	K1	1.32	1.34	1.36	1.40	1.36	1.30	solvent
	K2	0.21	0.23	0.25	0.27	0.25	0.20	
	K3	0.64	0.66	0.68	0.70	0.68	0.85	
В	K1	1.26	1.24	1.20	1.01	0.20	1.30	permanent
	K2	0.18	0.16	0.12	0.08	-0.34	0.20	insolvency
	K3	0.85	0.85	0.90	0.98	2.08	0.85	
С	K1	1.30	1.24	1.20	1.01	0.60	1.30	the insolvency

Table 1 -- Example of insolvency levels of organizations

	K2	0.20	0.16	0.12	0.08	-0.10	0.20	is going to be
	K3	0.70	0.74	0.74	0.78	0.80	0.85	permanent
D	K1	1.32	1.34	1.32	1.21	1.32	1.30	temporary
	K2	0.21	0.23	0.21	0.11	0.21	0.20	insolvency
	K3	0.64	0.66	0.64	0.74	0.64	0.85	
E	K1	1.32	1.30	1.26	1.24	1.20	1.30	the insolvency
	K2	0.21	0.19	0.18	0.16	0.12	0.20	is going to be
	K3	0.64	0.79	0.85	0.85	0.87	0.85	permanent
F	K1	1.32	1.26	1.28	1.29	1.32	1.30	temporary in-
	K2	0.21	0.14	0.16	0.19	0.21	0.20	solvency
	K3	0.64	0.85	0.86	0.75	0.64	0.85	

To make it clear, I would like you to pay attention to the following table with the calculated significance of the three main indexes for five financial periods (quarters) for 6 different organizations.

As we can see, organization A is absolutely solvent, because all the indexes are within the norms. The other organizations are insolvent. Let us check the level of their insolvency.

So, the insolvency of organization B is permanent and this organization is a bankrupt because it has had bad indexes during 5 financial quarters. Organization C is facing a very difficult financial situation. It is not a bankrupt yet, but because of bad indexes (K1 and K2) during 4 financial quarters the insolvency of this organization is going to be permanent.

You can see that organization D was insolvent in the fourth period and the insolvency was temporary, because the financial situation in this firm has changed for the better.

All of these examples are very simple. Let us discuss a more difficult situation when an organization has been insolvent during three periods in succession. The dynamics of indexes' changes plays the main role in financial analysis in such situations.

For instance, we have two organizations which have been or were insolvent during three periods in succession. These are organizations E and F.

The insolvency of organization E is going to be permanent because the financial situation in this firm is changing for the worse.

The situation in organization F is the opposite. The insolvency of this organization is not permanent because we can notice positive changes in their financial situation.

This kind of analysis (financial analysis) is used only to identify the companies' present situation. To assay the future of financial situation of these companies we have to use another type of analysis (for instance – the discriminant analysis) which is based on different models and will be the best one for concrete organization.

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THE DIAGNOSIS OF BANKRUPTCY RISK USING THE DISCRIMI-NANT ANALYSIS

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All entities are subject to the bankruptcy risk. This risk can have negative consequences, with complex implications both on the entity's whole activity and on the other entities it comes into contact with.

The bankruptcy risk is the company's incapacity to face the due obligations resulting either from current operations, whose accomplishment conditions the continuity of the activity, or from obligatory samplings. The bankruptcy risk can also be defined as the impossibility of the companies to face a financial-banking transaction, respectively its incapacity to repay in time the borrowed amounts in the conditions established in agreement with third parties, in accordance with a loan agreement.

As a result, the process of bankruptcy risk diagnosis consists in evaluating the company's capacity to face the commitments assumed by third parties, therefore in evaluating the company's solvency.