### COMPETITIVENESS OF POLISH FIRMS AND THE EUROPEAN UNION ENLARGEMENT

by Marian Gorynia

### INTRODUCTION

The paper has two aims. The first one is to present a three-dimensional concept of competitiveness of an enterprise. The concept of firm competitiveness discussed in the paper covers three dimensions:

- competitive position of an enterprise,
- competitive potential of an enterprise.
- competitive strategy of an enterprise.

Each of the above-mentioned dimensions was subject to operationalization – sets of variables describing particular dimensions of firm competitiveness were suggested.

The second aim of the paper is to present the results of empirical studies on the competitiveness of Polish firms in comparison with the European Union firms in the light of Poland's anticipated entry into the EU. The research is based on the concept of firm competitiveness developed in the first part of the paper. The studies were carried out in the year 2000 and included 68 firms of the manufacturing industry registered in Poland. The results obtained indicate that according to managers from those 68 enterprises, there is a significant competitive gap between the Polish firms and their rivals from the EU. This gap concerns all the three dimensions of firm competitiveness: competitive position, competitive potential and competitive strategy.

### THEORETICAL-CONCEPTUAL BASIS OF RESEARCH INTO FIRM COMPETITIVENESS

In the related literature there are many ways in which the firm competitiveness can be understood (Casson, 1991; Rugman, Hodgetts, 2000; Faulkner, Bowman, 1995: Porter, 1998; Hamel, Prahalad, 1990; Stalk, Evans, Schulman, 1992; Hill, Jones, 1992). Some of them are fragmentary and one-sided. There is a lack of precise definitions of this notion. In the received literature it is difficult to find the concept of firm competitiveness which could be operationalized and used in the empirical research. Therefore, it is necessary to conduct further work, the aim of which is to work out a comprehensive and multi-aspect concept of firm competitiveness, reflecting the complexity of behavior of enterprises rivaling on the competitive market.

The aim of the first part of the paper is to suggest a possible comprehensive approach to the problem of firm competitiveness. At the same time, this approach should include the most important aspects of competitive behavior of enterprises. As a result, it should be possible to suggest such a way of evaluating firm competitiveness which would be free from the above-mentioned drawbacks (fragmentary nature and one-sidedness).

Formulating the concept of competitiveness and, later on, an analytical scheme to understand it calls for the following differentiation:

- 1. competitiveness ex ante versus competitiveness ex post,
- 2. competitiveness on the home market versus competitiveness on the foreign market.

Further on, a way of the concept's operationalization should be suggested which would facilitate the measurement of competitiveness of real enterprises.

The author assumes that differences in competitiveness between firms may be defined as a competitive gap. For example, the statement that there exists a competitive gap between Poland's and European Union's enterprises is justified in view of Poland's entry into the Union.

### Competitiveness Ex Ante and Ex Post, Competitive Position, Competitive Potential, Competitive Strategy, Competitive Gap, Competing on the Home and Foreign Markets

The following terminology is suggested:

- 1. competitiveness ex post is the current competitive position. The competitive position achieved is a result of the realised competitive strategies of the rivals,
- competitiveness ex ante is the future (prospective) competitive position. It is defined, among others, by the enterprise's relative (i.e. referred to its rivals' abilities) capability to compete in the future, namely through its competitive potential; in other words this is competitiveness possible to be achieved. The structure and use of competitive potential is described by a competitive strategy, planned or intended. Therefore, a firm's competitive strategy is an analytical category facilitating transition from competitive potential, i.e. potential competitiveness (ex ante) to the real competitiveness, i.e. realized (ex post). Competing strategies are used so that the firm could achieve possibly the best competitive position. If a firm wants to obtain the desired competitive position, it must have competitive advantage. Having competitive advantage is the sine qua non

condition to achieve a good competitive position. The competitive advantage can be of cost-price or/and qualitative (differential) character. Competitive advantage results from using the set of instruments of competition which are the elements of a competitive strategy. The instruments of competition include (Hafer, 1999):

- product quality,
- price.
- distinctive nature of the products offered,
- flexibility in adjusting the products to the needs of customers,
- launching of new products onto the market more often than others,
- assuring potential customers an easy access to the products (a well-developed network of distribution, information, and the like),
- wide assortment,
- advertising,
- sales promotion,
- range of pre-sales services,
- range of after-sales services,
- prices of after-sales services,
- quality of after-sales services.
- terms and period of guarantee,
- firm's image.
- product's brand,
- terms of payment,
- generating needs unknown so far (creating needs).

In the light of the above-mentioned, for the needs of this paper it is necessary to define the concepts of competitive potential and competitive position. Competitive potential of an enterprise can have a narrow and broad meaning. In the narrow meaning of the term the competitive potential is all the resources used or available to be used by an enterprise (Godziszewski, 1999; Grabowski, 1994). Resources can be classified into three groups (Godziszewski, 1999):

- 1. primary resources,
- 2. secondary resources,
- 3. performance resources.

Primary resources is the entrepreneur's philosophy and the possibilities to gather in an enterprise the know-how and other resources (indispensable capital). Secondary resources include: material factors of production (fixed assets, raw materials, semi-products exploitation means), human resources, innovations, distribution channels, enterprise organization and information resources. Performance resources are understood as : image (particularly brand awareness), customer loyalty and customers' unwillingness to switch to other brands.

In a wider meaning of the term, the firm's competitive potential includes the following elements (Gorynia, Otta, 1998):

- 1. corporate culture,
- 2. firm's resources (broadly understood).
- 3. organizational structure,
- 4. strategic vision of an enterprise,
- 5. unique behavior (process of creating strategy).

Corporate culture defines which forms of economic behavior are preferred by the owners, managers and employees. In some enterprises priority is given to novelties. In others, conservative behavior dominates. Some enterprises take risks willingly, others – extremely reluctantly. Generally speaking, corporate culture in some firms favors competitive (e.g. entrepreneurial) behavior while in others such culture does not exist.

The firms' resources determine the scope of its activities in the economic and social environment. The volume of resources may limit the scale of operation. Their flexibility and mobility may change the firm's position in its environment. Broadly understood, a firm's resources include human resources, technological, material, and financial resources as well as intangibles (e.g. reputation). Resources available for an enterprise reduce the set of behaviors possible under given environmental conditions to the set of feasible behaviors. The volume, character, and allocation of the firm's resources also influence its possibilities to gain competitive advantage.

Organization of an enterprise determines whose preferences will be of greater or smaller significance in the firm. The organizational structure of the firm includes: division of authority, division of labor and communication network.

Moreover, the real behavior of an enterprise is influenced by its strategic vision (sometimes the formal strategic plan) which determines its objectives, mission and behavior. The importance of this vision depends on whether it is clear, supported by internal and external authorities, based on experience, and possible to be implemented.

The strategy of an enterprise emerges from the strategy-creating process. It consists of two sub-processes - the process of formulating a strategic vision (plan) and the process of putting the vision (plan) into practice. Particular enterprises have their own research, planning and performance routines. External and internal factors are responsible for the fact that enterprises are more or less willing to change the set of routines used. Moreover, the external and internal factors are responsible for the fact that the firm's behavior gets closer to the planned course (effective implementation of a clear strategic vision) or drifts away (either due to the lack of a clear strategic vision or inability to implement it).

A very complex, detailed structure of the competitive potential (competitiveness) is suggested in the studies supervised by M.J. Stankiewicz (Godziszewski, 1999, pp.79-82). Eleven functional-resource spheres and 91 elements constituting those spheres were differentiated within the competitive potential.

Competitive position of an enterprise results from the assessment of what the firm offers by the market (particularly by the buyers). The basic and synthetic measures of the competitive position of each enterprise are its share in the market and its financial situation. However, to quantify the competitive position one can use a wider set of the following measures:

- 1. profitability (relative, i.e. compared with competitors from the same branch).
- 2. cost level (relative),
- 3. market share,
- 4. features of a product (service) compared with the features of products (services) provided by competitors,
- 5. awareness of the firm and its products' existence on the market, perception of the firm by the environment.
- 6. customer loyalty, brand loyalty,
- 7. costs of shifting to other suppliers,
- 8. existence or likelihood of substitutes.

Attention should be paid to some similarity between the category of instruments of competition and the measures of competitive position - for example in both cases there appear definitions of product quality (features) and costs (prices). In both cases, however, the content of those definitions is different. For example, product quality as an instrument of competition means making attempts for the product of a given firm to be distinctive from the rival products (functional or process aspect of the concept of quality dominates here). On the other hand, product quality as a measure of competitive position ,means the obtained effect of the positive differentiation between a given product and the rivals' products (the result aspect of the concept of quality dominates in this case).

For example, if by a competitive gap one understands the differences in competitiveness between the Polish and the European Union's firms, then in the light of the above-mentioned terminology, the concept of competitive gap can also be understood in the ex post sense (gap as a difference in competitive position) and in the ex ante sense (gap as a difference in competitive potential). Moreover, it is also sensible to differentiate between a competitive gap understood as a state at a given moment (static competitive

gap) and a competitive gap in a dynamic approach, meaning the process of changes in the initial competitive gap, i.e. the sequence of the states of competitive gap at different moments (dynamic competitive gap).

It is also important to differentiate between competition on the home market and competition on the foreign market. The fact that some manufacturer does not export his products does not mean that he cannot compete with foreign rivals. If his domestic market is an open market, there is an opportunity to compete with foreign rivals on the home market (competing with imports on the internal market). The differentiation between competing on the home market and on the foreign market is particularly important when shaping an economic policy as there arises a question whether exports should be supported with special means of the economic policy or treated in the same way as the output meant for the home market.

In this paper, where it is justified, we shall differentiate between competition and competitiveness on the home market and on the foreign market and, respectively, between the competitive gap on the home market and the foreign market.

### Analytical scheme of competitive gap

The considerations presented so far can serve as a starting point to concretise the analytical scheme of a competitive gap. Taking into account the previously established terminology, four dimensions (aspects) of a competitive gap can be differentiated:

- 1. Competitive gap as differences in the current competitive position of a given firm compared with its rivals; detailed variables describing the competitive gap understood in this way are the above-mentioned measures of the competitive position (market share, profitability, etc.) referred to the actual situation,
- 2. Competitive gap as differences in the future competitive position of a given firm as compared with its rivals; it is described by a similar set of the measures of competitive position, however, referred to some moment in the future,
- 3. Competitive gap as differences in the current (initial) competitive potential; the competitive potential is one of the determinants of the firm's ability to compete; it also determines the range of plausible competitive strategies; moreover, we assume that differences in the future competitive potential (referred to some moment in the future) will be significant for competing in the period after that moment,
- Competitive gap as differences in the competition strategy within the studied period; the differences in the competition strategy can be reduced to the differences in instruments of

competition which have already been mentioned.

For example, when speaking about the competitive gap between the Polish enterprises and the EU firms in the context of Poland's entry into the Union, we shall simultaneously keep in mind four of the above-mentioned dimensions of that gap. The measurement of this gap will have to include detailed variables (measures) referring to all the four dimensions. Formally the gap (CG) can be presented as a vector:

$$CG = \begin{bmatrix} DCCPS \\ DFCPS \\ DCCPL \\ DCS \end{bmatrix}$$

Where:

DCCPS – differences in current competitive position

DFCPS - differences in future competitive position

DCCPL – differences in current competitive potential

DCS – differences in competitive strategy

For the needs of the studies presented below, particular dimensions of the competitive gap were formulated as questions in the questionnaire. Operationalization has led to determination of detailed variables which are measurable variables (See Tables 1, 2, 3).

The above concept of classifying the measures of competitiveness which are a tool to measure the competitive gap corresponds with the concept of three aspects of competitiveness suggested by Buckley, Pass and Prescott (1998). They distinguish three aspects of competitiveness or three groups of the measures of competitiveness:

- 1. competitive performance,
- 2. competitive potential,
- 3. management process.

The above-mentioned three Ps describe different stages of competitive process. A starting point is the potential which is a certain input or outlay in the process of competing. An impact on the competitive potential during the management process leads to some defined results of competition. There is a feedback between the differentiated aspects of competitiveness. The competitive potential partly determines the way of management process, but the management process in turn influences the extent and quality of the competitive potential. The results achieved also influence the volume and quality of competitive potential and moreover, have an impact on the management process. These remarks once again

lead to a conclusion that competitiveness and competitive gap cannot be treated as static concepts.

Further on in the paper there are three Tables where the concepts of competitive position, competitive potential and competitive strategy (instruments of competing) are operationalized. Each of those concepts is described by a set of variables which can be measured, using the suggested scales. While constructing tablesquestions it was assumed that an enterprise operates on several markets and its competitive situation on particular markets can be different.

### EMPIRICAL STUDIES ON COMPETITIVENESS OF POLISH FIRMS

### Concept of research and research sample

In the middle of the year 2000 studies were carried out on the competitiveness of 68 Polish firms. Assumptions of the research were as follows:

- studies were based on the method of direct interview - trained questioners (students) held interviews, using a special questionnaire, with representatives of top management of the studied firms (one representative from each of the studied firms),
- studies consisted of gathering the managers' opinions as regards three aspects of competitiveness competitive position, competitive potential, instruments of competing(competitive strategy),
- 3. studies covered enterprises from different branches of the manufacturing industry,
- 4. studies included the enterprises registered in Poland, irrespective of the origin of their capital.
- 5. studies concerned mainly medium-size and large enterprises,
- main criterion of selecting the enterprises for research (apart from its size and belonging to the manufacturing industry sector) was the willingness to co-operate on the part of the firm.

Enterprises of different legal status participated in the studies: 29 limited liability companies, 27 joint stock companies, 4 civil companies, 3 one-man companies, 4 co-operatives and 1 state enterprise. Nineteen of the studied firms are enterprises with the share of foreign capital, including 5 firms with 100 percent of foreign capital; in 12 firms foreign capital had a major share and in one firm the share of foreign capital was minor.

As concerns the number of employees in the studied firms, the situation was as follows:

- up to 50 4 firms
- 50-100 10 firms

- 101-500 -38 firms
- over 500 -16 firms

In 1999 the value of sales in those firms was as follows:

- up to 5 m. PLN -3 firms
- 5-10 m. PLN -9 firms
- 10-50 m. PLN 25 firms
- 50-100 m. PLN 13 firms
- over 100 m PLN –14 firms

In 1999 the share of exports in total sales amounted, on average, to about 35 percent (data were provided by 63 firms), with exports to the three largest EU markets constituting on average 26 percent of the total sales (data provided by 46 firms). The largest EU markets for the firms under consideration were Germany, France and Holland. The firms' forecasts for the years 2000, 2003 and 2005 anticipate that the same markets will play the most important role for their export sales in the future.

### Competitive position

At the beginning, the respondents expressed their views on the weights of the criteria (measures) in determining a firm's competitive position. Assessment was made according to a seven-grade scale presented below. The results are presented in Table 1. The data show that in the opinion of the firms considered, two of the listed criteria of evaluating competitive position are more or less equally important, with the financial situation being slightly more significant. This is convergent with the view that the best measures of the competitive position of a firm are profitability measures. Moreover, it seems that those opinions are sensible - a firm with a good competitive position should have a good financial situation. The research, however, made no attempt to determine which indicators - in the respondents' opinion describe the firm's financial situation in the best way.

Further on, Table 1 presents the mean evaluations of the managers from the studied firms as regards their position on the Polish market and on the 3 largest EU markets. In the eyes of the managers their firms' competitive position on the home market is a little better than the average, both as regards market share (M=4.03), and financial situation (M=3.77). Those managers are optimistic about the future - they anticipate that their firms' competitive position within the coming three years will improve, both as regards the home market share (M=4.45), and the financial situation (M=4.26). The current competitive position on the 3 EU markets was assessed as being worse than on the home market, both as regards market share (M=3.25), and financial situation (M=2.73). The managers anticipate that in the future they will

maintain their competitive position as regards market share and the financial situation of their firms will slightly improve.

### Competitive potential

The results of studies on competitive potential are presented in Table 2. The respondents were given a set of 39 measures of the competitive potential. The highest weights were attributed to the following measures:

- knowledge of the current and future needs of the customers (M=4.88).
- quality of the managerial staff top management (M=4.76),
- reputation (image, good recognition) of the firm (M=4.70),
- importance of quality assurance (M=4.69),
- advancement of production technology (M=4.67).

According to the respondents, the following measures of competitive potential are of the least significance:

- quality of the research-development staff (M=3.64),
- outlays for R&D (M=3.67),
- level of marketing technology (M=3.67),
- employees' attitude to changes (M=3.69),
- employees' approval of the managerial staff (M=3.79).
- quality of the motivating system (M=3.79).

Generally, it may be surprising that the significance of factors from the spheres of research and development and corporate culture was estimated as relatively low. Interpretation of opinions on research and development seems to be particularly difficult. According to the respondents. this factor is not especially important and - as can be seen from the data below - the situation in this respect does not look too encouraging. Perhaps the managers who were surveyed, realizing a huge technological gap, are of the opinion that it is not the best solution to carry out research and development work on their own. Acquiring the already existing technologies through the purchase of licences, establishing joint ventures and the like seems to be better.

It is surprising that the factors relating to R&D and those relating to corporate culture were assessed as unimportant.

As regards evaluation of the current competitive potential of the studied firms on the home market, the highest measures were attributed to the following factors:

- importance of quality assurance matters (M=4.16),
- level of quality management system (M=4.11),

 quality of managerial staff – top management (M=4.09).

Thus, broadly understood, quality seems to be the most important asset of the studied firms as compared with their home rivals.

On the home market basic, relative weaknesses of the studied firms include:

- outlays for R&D (M=3.14),
- relative level of outlays for marketing (M=3.22),
- employees' attitude to changes (M=3.23).

It should be underlined that low competitive potential appears in those areas which were regarded by the respondents as less significant.

Attention must also be paid to the fact that the assessment of the competitive potential of the studied firms for the future (in 3 years' time) is more optimistic than the current one. This concerns all factors of the competitive potential, without any exception. It may be a sign of an active and aggressive, and at the same time optimistic approach of the studied firms to competition on the home market. Generally, it can be stated that in the opinion of the studied firms both their current and future competitive potential on the home market looks good. Each of the factors of competitive potential obtained average score above 3.00, which means that the studied firms are better from their average home rival in all respects.

The situation looks different as regards the three largest EU markets. As regards 11 out of 39 measures of the competitive potential referring to the current competitive situation, it was assessed that the Polish firms had lower competitive potential than their average rival on the EU markets (average score below 3.00). The lowest assessment concerned:

- relative level of outlays for marketing (M=2.40),
- level of marketing technology (M=2.48),
- outlays for R&D (M= 2.56).

It is also significant that in none of the 39 measures the mean assessment of the current situation did not exceed 4.00 which indicated a slightly higher competitive potential than that of the average rivals on the EU markets. This means that the studied Polish enterprises tend to have the competitive potential similar to the potential of their average competitors on the EU markets. The highest assessment refers to:

- quality of corporate finance management (M=3.86),
- quality of managerial staff top management (M=3.61),
- importance of quality assurance (M=3.50).

Attention should be paid to the fact that the managerial staff estimate themselves very highly. Therefore, the following hypotheses emerge here:

- this estimation may not be justified quality of the managerial staff which is higher than that of the rivals should ensure competitive advantage, however this is not the case,
- this estimation is justified and the problems with achieving competitive advantage are also influenced by factors other than the quality of management.

Evaluations concerning the future are more optimistic. In 38 out of 39 measures these evaluations are higher for the future (in 3 years time) than for the present (the quality of corporate finance management which is quite highly assessed at present is an exception). The following measures achieved the highest score:

- reputation (image, good recognition of the firm) (M=4.03),
- quality of managerial staff top management (M=4.00),
- importance of quality assurance (M=4.00).

### Instruments of competing (competitive strategy)

Evaluation of the factors describing the competitive strategy applied (instruments of competing) is presented in Table 3. The highest weights are attributed to the following instruments:

- quality (M=5.09).
- price (M=4.88).
- promptness of delivery (M=4.69).

At the same time it was stated that instruments related to after-sales services (price, range and quality) seem to be the least significant for achieving success on the EU markets. It can be assumed that such low weigts attributed to aftersales services may result from the fact that not all products of the analyzed firms require such services.

Evaluation of the current situation as regards the application of instruments of competing tends to be similar to assessment of the factors of competitive potential – the Polish enterprises rank as average and the mean assessment referring to all the instruments are contained in the interval 3.00-4.00. The best situation seems to be in the following areas:

- promptness of deliveries (M=3.83),
- quality (M=3.79),
- product brand (M=3.52).

It must be admitted that the abovementioned evaluation is a bit surprising. Those areas are usually regarded as weaknesses of the Polish exporters. However, it can be assumed that problems with selling the output (saturation of the home market) were responsible for the fact that those firms which managed to conclude export agreements make every effort to meet their obligations towards foreign partners. The situation looks relatively bad as regards:

- advertising and sales promotions (M=3.06).
- servicing (M=3.16-3.39),
- frequency of launching new products (M=3.21).

The analyzed firms are moderately optimistic about the future. Within three years they anticipate improvement of the situation – as compared with the present time – as regards all the instruments of competition. It is anticipated that within the area of each instrument of competition the studied firms will tend to be better than their average rival on the EU market. The most optimistic forecasts refer to:

- quality (M=4.30),
- promptness of deliveries (M=4.23),
- product brand (M=4.13).

This means that the studied firms intend to continue their present competitive strategy because they currently have competitive advantage as regards the same instruments of competition.

### FINAL REMARKS

Studies on the competitive gap carried out by the author at the level of a firm prove that the suggested conceptualization and operationalization of the idea of firm competitiveness are useful in practice. Firm competitiveness consists of three elements: competitive position, competitive potential and instruments of competition (competitive strategies).

The results of the studies confirm the existence of intuitively anticipated competitive gap between the Polish and the EU enterprises in the sphere of the three above-mentioned elements of firm competitiveness.

Bearing in mind the limitations connected with the research method applied (gathering managers' opinions on the competitiveness of their companies) it should be underlined that although the above-mentioned competitive gap exists, there also exists some premises to be optimistic, namely:

- the gap is not perceived as enormous i.e. average competitors operating on the EU market are perceived as rivals with whom the Polish firms can compete effectively,
- forecasts concerning competitive position, competitive potential and instruments of competition indicate that the Polish enterprises assume an aggressive attitude and intend to reduce the currently existing competitive gap. If this is to be successful, it is necessary to reformulate competitive strategies of many of the analyzed firms and to obtain support from the economic policy (Gorynia, 1998).

Finally, it should be underlined that aggregated studies of the situation and of the competitive gap (covering a defined population of enterprises) can merely be a starting point for the formulation of normative recommendations addressed to concrete individual enterprises. While formulating general conclusions and the more SO general recommendations enterprises, attention should be paid to the specificity of their individual situation and strategic identity. Inter-sector, sector and branch studies should be followed by precise, individualized studies of competitiveness tailored to particular enterprises. Among the premises which seem to be sufficient arguments for carrying out independent studies of competitiveness, the following ones can be mentioned:

- measurements make it possible to evaluate
  the significance of particular elements of the
  competitive potential and instruments of
  competition if an enterprise strives to
  achieve competitive advantage to
  determine critical factors/spheres of success:
- this enables an enterprise to diagnose the spheres and extent of its own maladjustment, i.e. to estimate the size of a gap within particular elements of the potential and instruments of competition as well as their arrangement against the background of the rivals, and also to evaluate the significance of gaps, in particular spheres for the future of an enterprise and to assess their impact;
- measurement of the competitive position facilitates making operational and strategic decisions the aim of which is to eliminate or to limit the size of the competitive gap;
- regular studies necessitate selective corrective measures – in those areas of the gap where they are most needed;
- these studies are also a basis for regular monitoring of these problems in an enterprise, for raising the awareness of how important such monitoring is and acquiring the necessary research-analytical skills, experience indispensable for continuous purposeful creation of adequately flexible competitive potential and selection of competitive instruments which would skilfully use this potential.

It seems that the enterprises which take competition on the open EU market seriously should conduct regular and professional studies on competitiveness. This is a sine qua non condition to reducing a competitive gap separating them from other rivals who operate on this market.

Table I Competitive position of a firm against the rivals

	We	Weight of a given	iven			Home	Home market				3	3 largest EU markets	U mark	ets	
Measures of competitive position		measure			ACMP			AAMP			ACMP			AAMP	
	Z	M	as	Z	Σ	SD	Z	W	SD	Z	Σ	SD	Z	W	SD
1. Market share of the studied firm	65	65 4,14	0,80	54	4,03	76,0	54	4,45	0,93	43	3,25	1,53	43	3,21	0,99
2. Financial situation of the studied firm	64	4,41	9,78	50	3,77	98'0	50	4,26	0,82	4	2,73	0,84	42	3,26	0,88

NI – number of indications M – arithmetic mean SD – standard deviation

ACMP – assessment of our current position on the market AAMP – assessment of our anticipated position on the market

## Weight of measure:

# Scale of possibilities to assessment competitive position:

0	- no significance	0	- we are (will be) the worst on the market (low market share, bad financial situation)	situation)
,	<ul> <li>very small significance</li> </ul>		- we have (will have) a much worse than average competitive position	
7	- small significance	7	- we have (will have) a slightly worse than average competitive position	
٣	- average significance	т	- we have (will have) average competitive position (in a given respect)	
4	<ul> <li>big significance</li> </ul>	4	- we have (will have) a slightly better than average competitive position	
2	<ul> <li>very big significance</li> </ul>	S	- we have (will have) a much better than average competitive position	
9	- enormous significance	9	- we are (will be) market leader (the best)	

### Competitive potential

Scale of possibilities (as compared with average competitor):

- we are (will be) slightly worse

- we are (will be) much worse

- we are (will be) the worst

- we are (will be) slightly better

- we are (will be) average

- we are (will be) much better

- we are (will be) the best

- assessment of our anticipated potential

AAP ACP

- number of indications

ZΣ

SD - standard deviation - arithmetic mean

- assessment of our current potential

Weight of factor:

- very small significance - very big significance - average significance - small significance - big significance - no significance 20450

4 5 6 - enormous significance

1,16 0,86 0,00 0.95 0,90 0.0 0.92 0.92 0.99 90.1 SD 00,1 3,85 3,68 3,74 3,36 3,34 3,66 3,37 3,32 3 largest EU markets Σ Z <del>\$</del> 45 4 47 4 47 47 47 47 96,0 8 0,84 0.87 0,85 1.05 0,85 0.92 0,81 0,92 SD 3,86 ACP 3,03 2,87 2.80 3,09 3,28 3,20 2.56 2,81 2,89 3.17 3,07 Σ Z 46 9 46 46 46 46 46 44 46 46 46 0,82 0.84 0,82 0.74 0.83 98,0 0,78 0.74 0,92 0.85 S 4,44 4,35 4,26 4,08 4,38 3.70 AAP 4,11 4,32 4,31 3,73 4,11 4.51 Σ Home market Z 63 65 63 63 63 63 63 63 63 63 63 63 0,74 0,68 0,73 0,84 0,91 0.75 98.0 0,72 SD 0.74 0,88 3,84 3,94 3,74 3,14 3,37 3,74 3,56 3,91 3,86 ACP 3.83 3,50 Σ 3,57 Z 65 63 63 63 63 63 63 63 63 63 63 63 0,54 0,82 4 0,94 0,75 0.64 1,09 0.77 0,87 SD 0.80 0.7 0,81 Weight of a given measure 4,16 4,46 4,28 4,10 4,06 4,63 4.15 3,64 4.67 3,67 Σ 29 29 89 67 29 Z 29 29 67 67 67 67 29 Possibilities of purchasing modern construction and technological Possibilities of financing development from external means Possibilities of financing development from own funds Quality of corporate finance management technology Measures of competitive potential Quality of corporate finance management Possibilities of financing current activity Advancement of production technology Quality of production equipment Flexibility of production system Technical culture of employees Quality of R&D staff Outlays for R&D solutions = 12 Ś ó. œ. o, 4

Table 2 CONTINUED

13. Level of quality management system	67	4,52	0,79	63	1,4	0,78	63	4,52	0,84	46	3,38 (	0,94	47	3.79	0,89
14. Rank given to quality assurance problems	19	4,69	0,70	63	4,16	0.81	63	4,60	0,81	9+	3.50 0	96.0	47	4,00	0,93
15. Access to key resources	65	4,32	0,79	[9]	3,82	0,76	61	4,26	0,83	45	3,12 0	0,88	46	3,56	0,95
16. Quality of supply - logistic staff	<i>L</i> 9	4,00	09'0	63	3,60	0,71	63	4,00	89.0	45	3,12 0	0.84	46	3,60	0,91
17. Knowledge of present and future needs of customers	29	4,88	0,62	63	3.90	79.0	63	4,48	06'0	45	3,29 0	0.84	46	3,83	0,92
18. Knowledge of competitors	29	4,46	0,91	63	3,92	0.71	63	4,47	0,82	45	3,24 0	0,86	46	3,89 (	0.89
19. Rank given to marketing activity	19	4.19	1,03	63	3,60	98'0	63	4,27	0,84	45	2,80 0	0.93	46	3,48	96,0
20. Rank given to expansion on foreign markets	19	4,10	0.88	19	3,86	0,80	19	4,43	98.0	46	3,25 0	0,81	47	3.78	1.04
21. Quality of marketing staff	99	4,17	1,04	64	3,51	0,80	63	4,13	0,74	47	3,00 0	96.0	47	3.55 (	86.0
22. Quality of export-sales staff	65	4,09	0,86	19	3.65	0.73	19	4,19	0,70	46	3,10 0	0,86	47	3,60	00,1
23. Relative level of outlays for marketing	29	3,82	0.83	63	3,22	0,75	63	3,89	0.77	46	2,40 1	1.00	47	3,25 (	16,0
24. Level of marketing technology	29	3,67	0,93	63	3,29	0,73	63	3,90	0,74	46	2,48	1,02	47	3,33 (	0,95
25. Level of operational management technology	99	4,24	0,82	62	3,54	69.0	62	4,08	0.86	45	2,96 0	0.56	46	3,52 (	0.97
26. Level of strategic management technology	99	4,14	06.0	62	3,56	0,76	62	4.14 (	0,81	44	3.00 0	0.76	45	3.50 (	0,93
27. Quality of motivation system	99	3.79	0,82	64	3.31	0,75	64	3,94 (	0,68	47	2,88 0	0.77	48	3,41 (	0,85
28. Quality of managerial staff - top management	99	4,76	0,74	62	4,09	0,62	62	4,46 (	0,74	45	3,61 0	0,84	46 4	4,00 [(	0,79
29. Quality of middle management	29	4,54	0,78	63	3,89	0,70	63	4,32 (	0,73	45	3,38 0	96'0	46	3.89 (	16.0
30. Degree of identification of the crew with company's goals	29	3,96	0,93	63	3,58	0,75	63	4,11	0.78	45	3,14 0	0,86	46	3,71 (	06,0
31. Employees' attitude to changes	19	3.69	0,81	63	3,23	0,61	63	3,80 (	0,63	45	3,00 0	0.56	46	,58 (	69.0
32. General professional level of the crew	29	4,30	69'0	63	3,65	0,63	63	4,16 (	0,59	45	3,24 0	0,71	46	3,69 (	0,70
33. Level of innovativeness of the crew	99	3,83	0,75	62	3,52	0,75	62	3,87 (	0,71	45	3,02 0	0,66	46	3,50 (	0.75
34. Willingness to improve qualifications	19	4,00	99.0	63	3,62	0,85	63	4,16 (	0.91	45	3,29 0	66.0	46	3,77 (	0,92
35. Employees approval of the managerial staff	67	3.79	0.79	63	3,64	0,74	63	4.10 (	0,75	42	3.33 0	0.78	43	3,91	0,74
36. Employees willingness to co-operate	29	4,05	69'0	63	3.60	0,72	63	4,07 (	0,70	45	3,32 0	0,70	46	3,77 (	69.0
37. Working out a clear vision of company growth	29	4,37	0,82	63	3,65	0.73	63	4,16 (	0.80	45	3,27 0	0,71	46		69.0
38. Knowledge of the firm and its products on the market	19	4,49	0.84	63	3,90	62,0	63	4.55 (	0.91	45	2.96 0	0.87	46	3,77 (	0,94
39. Reputation (image, good recognition) of the firm	67	4,70	0,79	63	4.03	0,76	63	4,67 (	0,87	44	3,32 1	1,07	45 4	4,03	1,00

0,92 1,03

3,99 3,70 3,80

> 45 45 44 48

0,91

45

1,56

3,24 2,84

14. Terms of guarantee

15. Product brand

12. Quality of services 11. Range of services

13. Price of services

45 44 21 48

0,88 08'0 1,02

> 3,20 3,45

> > 1,16

3,25 3,85

1,47 1,51

2,68

88884

1,09

98,0

3,46

4,13

51

Situation of a firm as regards application of instruments of competition (competitive strategy)

Weight of instrument:	Scale of possibilities of evaluating situation as regards application of instruments of competition (compared with average competitor):	ssibilities (	of evaluati	ng situati average	on as rega	ırds applic	cation of	instrumen	23
0 – no significance – very small significance	0 - we a	- we are (will be) the worst - we are (will be) much worse	the worst	မွ	•				
2 - small significance	2 we a	- we are (will be) slightly worse	slightly w	orse					
3 – average significance	3 - we a	- we are (will be) average	average	:					
4 - big significance	- we a	- we are (will be) slightly better	slightly be	itter					
2 – Very dig significance	o - we a	- we are (will be) much better	mucn pett	cı					
6 – enormous significance	6 - we a	<ul> <li>we are (will be) the best</li> </ul>	the best						
NI – number of indications WI – weight of instrument	rument								
ACSF	current situat	ion of our f	iii.						
SD - standard deviation of our firm - in 3 years	anticipated si	tuation of c	our firm - ii	n 3 years					
	-			3 larg	3 largest EU markets	arkets			
Instruments of competition		M			ACSF			AASF	
	Z	M	GS	Z	M	SD	IN	M	SD
1. Price	26	4,88	0,63	54	3,50	0,84	54	3,74	0,95
	56	2,09	0,55	54	3,79	0,97	54	4,30	1,02
3. Technological advancement	55	4,02	0,93	53	3,42	0,89	53	3,89	0,92
4. Complexity of offer	56	4,02	0,81	54	3,46	96,0	54	3,84	0,95
	55	2,96	1,18	51	3,40	0,86	51	3,87	0,87
	55	4,69	0,75	53	3,83	0,86	53	4,23	1,01
7. Terms of payment	55	4,06	0,84	53	3,45	0,80	53	3,90	0,93
8. Advertising and sales promotion	56	3,79	1,28	54	3,06	0,93	54	3,67	Ξ,
19. Frequency of launching new products	56	3,18	1,23	52	3,21	0,94	52	3,76	0,97
10. Customer-friendly distribution network	55	3,24	1,33	53	3,43	06'0	53	3,99	1,10
								-	,