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Ralf Fendel* and Michael Frenkel**

The International Competitiveness of Germany and other European Economies: The Assessment of the Global Competitiveness Report

The Global Competitiveness Report of the World Economic Forum examines the relative competitiveness of economies on a broad basis of microeconomic and macroeconomic indicators. The following discussion uses the results of the Global Competitiveness Report 2004-2005 and investigates how the relative competitiveness of Germany and other European countries has developed over the recent past.

Since 1979, the World Economic Forum (WEF), Geneva, has annually published the Global Competitiveness Report (GCR). The GCR portrays the comparative strengths and weaknesses of countries and derives two comprehensive indicators of competitiveness from a number of specific indices. The number of countries included in the international comparison has steadily increased over the years and currently amounts to more than one hundred. The share of these countries in world GDP is in excess of 97 per cent.

The underlying methodology of the GCR has a solid theoretical foundation and combines publicly available information in the form of publicly available data and the results of an Executive Opinion Survey that was designed specifically for the needs of the study. This survey captures the assessment and observations of managers in the respective countries.

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The 2004-2005 report is based on the assessment of 8,729 companies worldwide, which corresponds to an average number of 80 participating firms in each country included in the study.¹ Once the survey is performed, the results of the survey are combined with the publicly available data (on, for example, total government deficit and expenditure on research and development) to derive rankings on a number of different aspects (indicators) of competitiveness. The findings for the majority of these competitiveness indicators are then used to derive two main indices which ultimately represent – in a condensed form – the central results of the Global Competitiveness Report. These two indices are the *Business Competitiveness Index* (*BCI*) and the *Growth Competitiveness Index* (*GCI*).²

^{*} Assistant Professor, Otto Beisheim Graduate School of Management, Koblenz, Germany.

^{**} Professor of international economics, Otto Beisheim Graduate School of Management, Koblenz, Germany. Both authors are contributors to the World Competitiveness Report of the World Economic Forum.

¹ In Germany, a total of 65 managers answered the survey. Of these, 42 per cent came from industry, 34 from the service sector, and none from the agricultural sector. The remaining share is managers that cannot be exactly classified.

² The new World Competitiveness Report includes a detailed explanation of the construction of these indices. Note that the Business Competitiveness Index was previously called the Microeconomic Competitiveness Index. However, the underlying concept for the construction of the index has not been changed. Compared to last year's study, only the endowment of the economies with natural resources was added. This modification is especially relevant for developing countries.

However, the report for 2004-2005 can be regarded as a transition to a new system, because, in addition to the GCI and the BCI, a newly designed index – the *Global Competitiveness Index* – is introduced. In the future, this new index will represent the combination of the two indices. Hence, as of 2005-2006, only a single index will be used as an aggregated indicator of competitiveness.

The Growth Competitiveness Index

The Growth Competitiveness Index (GCI) is of a macroeconomic nature and aims at capturing all those factors that contribute to the future productivity growth in an economy as measured by the change in per capita income. Therefore, the focal point is on sustainable growth processes and, thus, goes beyond business cycle phenomena. The GCI is based on three sub-indices, one with respect to the level of technology within the economy, one with respect to the quality of public institutions, and one with respect to the macroeconomic environment.³ All three sub-indices are, in turn, composed of a number of indicators which are ultimately based on the raw data of the report.

In constructing the GCI, the economies included in the report are categorised into core innovators and non-core innovators. This aims at reflecting the fact that growth processes are influenced by factors that are different for different stages of the development of an economy. In particular, the catching-up phenomenon, according to which less advanced economies can more easily reach higher levels of productivity by adopting leading technologies, can be regarded as only temporary. As an economy closes the technological gap to the advanced economies, this source of growth diminishes. Formally, the dependency of growth factors on the development stages is integrated into the GCI by giving different weights to the three sub-indices and the indicators within the technology index for core and non-core innovators. For the technology index, an additional sub-index is taken into account that captures the ability of economies to adapt new technology (the "technology transfer index"). By contrast, core innovators have a higher weight within the technology index for their ability to develop technology (the "innovation index"). The group of core-innovators includes all countries in which firms hold at

Table 1 Growth Competitiveness Index Ranking in 2004-2005

| Growth Competitiveness Index 2004 | | | | |
|-----------------------------------|----------------|------|----------------------|--|
| Rank | Country | Rank | Country | |
| 1 | Finland | 16 | United Arab Emirates | |
| 2 | USA | 17 | Austria | |
| 3 | Sweden | 18 | New Zealand | |
| 4 | Taiwan | 19 | Israel | |
| 5 | Denmark | 20 | Estonia | |
| 6 | Norway | 21 | Hong Kong SAR | |
| 7 | Singapore | 22 | Chile | |
| 8 | Switzerland | 23 | Spain | |
| 9 | Japan | 24 | Portugal | |
| 10 | Iceland | 25 | Belgium | |
| 11 | United Kingdom | 26 | Luxembourg | |
| 12 | Netherlands | 27 | France | |
| 13 | Germany | 28 | Bahrain | |
| 14 | Australia | 29 | Korea | |
| 15 | Canada | 30 | Ireland | |
| - | | | | |

least 15 registered US utility patents per one million inhabitants. A total of 25 economies – among them Germany – fulfils this criterion. Table 1 shows the ranking for the year 2004.

For the third time within the past four years, Finland leads the ranking in 2004-2005. The USA is in second place after being on top two years ago. Overall, the top group of countries has remained relatively unchanged compared to 2003-2004. Nine economies that ranged among the top 10 in 2003-2004 are again in the top ten. Only Australia has slipped out of this group. Germany ranks 13th as in the previous ranking. Taking Germany's ranking in 2002-2003 into account, when it was 14th, a relatively stable picture emerges for Germany for the recent past. However, being outside the top ten does not seem to be in line with the aspirations of the worldwide leading economy that Germany wants to be and is, therefore, probably a disappointment.

The Business Competitiveness Index

The Business Competitiveness Index (BCI), which was called the Microeconomic Competitiveness Index by the Global Competitiveness Report until 2002 and the Current Competitiveness Index even earlier, is of a microeconomic nature. In contrast to the GCI, which reflects the potential for future productivity growth, the BCI focuses on aspects which indicate the current

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³ For a detailed explanation of the GCI see the Global Competitiveness Report 2001-2002.

productivity situation and, thus, the current economic performance of an economy. Its approach takes into account that macroeconomic factors play an important role as the framework of economic activities in an economy, but that the current productivity level of an economy is best described by the performance of the firms operating in the economy.

Like the GCI, the BCI is a fairly condensed indicator which consists at the highest level of two microeconomic fundamentals. The latter are reflected in the two sub-indices of the BCI. The first of them is the degree of sophistication of company operations and strategy; the second indicates the quality of the microeconomic business environment. The characteristics that emerge from a survey among leading managers and enter the BCI are derived from Porter's famous diamond model and concentrate on factor markets, demand conditions, supporting industries and the context for firm rivalry (i.e. competitive structures).

Table 2 shows the BCI ranking of 2004-2005. Compared to the previous year, the USA and Finland switched positions so that the USA is now in the leading position and Finland in second place. The countries that rank among the top ten in the BCI are more or less the same countries that rank among the top ten in the Growth Competitiveness Index too. This also applies to the entire group of countries included in the report and represents a feature that is reflected in the high value of the rank correlation coefficient between the two indices, as shown in the Global Competitiveness Report. In the group of industrial countries, Hong Kong, Japan and Norway have significantly improved their position in the 2004-2005 ranking. By contrast, Italy, Malta and Iceland slipped in the new ranking, with Italy even dropping nine places. Germany moved up slightly from fifth to third place after having slipped down from number four to five in the previous ranking. Hence, Germany ranks considerably better in the BCI than in the GCI suggesting - as in previous years that the more short-term factors of competitiveness in Germany are - in relative terms - much better than the longer-term environment for productivity increases.

Modifications of the Concept of Competitiveness

As of the next report, i.e. for 2005-2006, the GCI and the BCI will be replaced by the newly developed Global Competitiveness ranking. With the formulation of a newly designed index, the Global Economic Fo-Intereconomics, January/February 2005

Table 2 Business Competitiveness Index Ranking in 2004-2005

| Business Competitiveness Index 2004 | | | |
|-------------------------------------|----------------|------|----------------------|
| Rank | Country | Rank | Country |
| 1 | USA | 16 | Austria |
| 2 | Finland | 17 | Taiwan |
| 3 | Germany | 18 | New Zealand |
| 4 | Sweden | 19 | Iceland |
| 5 | Switzerland | 20 | Norway |
| 6 | United Kingdom | 21 | Israel |
| 7 | Denmark | 22 | Ireland |
| 8 | Japan | 23 | Malaysia |
| 9 | Netherlands | 24 | Korea |
| 10 | Singapore | 25 | South Africa |
| 11 | Hong Kong SAR | 26 | Spain |
| 12 | France | 27 | Estonia |
| 13 | Australia | 28 | United Arab Emirates |
| 14 | Belgium | 29 | Chile |
| 15 | Canada | 30 | India |
| | | | |

rum takes into account that the nature of international competitiveness is subject to continuous changes. The fast development of information and communication technology and the associated decline in communication costs have led to a sharp increase in the speed of economic integration in the world. Firms are increasingly forced to base their decisions and strategies on a global perspective. This applies both to the marketing and the sourcing activities of firms. The growing number and importance of multinational enterprises mirrors these developments. Against this background, many economies feel forced to respond creatively to these challenges.

By constructing the new Global Competitiveness Index, the Global Economic Forum aims at taking these developments into account. The new index incorporates a larger number of factors than the GCI has done so far. For example, it also includes aspects of human capital quality, the efficiency of the labour and financial markets, and the quality of the infrastructure. These aspects have so far represented elements of the BCI. The authors of the Global Competitiveness Report are now convinced that the influence of macroeconomic and microeconomic aspects can and/or should no longer be separated. The rank correlation coefficient of more than 95 per cent between the GCI and the BCI can be interpreted as support for this view, as such a high value suggests that the two different indices hardly involve different information.

The calculation of the Global Competitiveness Index is relatively complex. Here, we only explain its broad structure and refer the reader to the new Global Competitiveness Report. The index is based on three main principles of, or views about, the nature of competitiveness. The first view asserts that the determinants of competitiveness are very heterogeneous. Therefore, twelve different "pillars of competitiveness" are identified. These are:

- institutions
- physical infrastructure
- macro stability
- security
- human capital
- goods markets efficiency
- labour market efficiency
- financial market efficiency
- technological readiness
- · openness and market size
- business sophistication
- innovation.

The second principle or view is that economic advancement develops in steps. This view is related to the work of the historian W. W. Rostow in the 1960s. On this basis, economies are categorised according to different stages of development. Depending on the development stage, the "twelve pillars" receive different weights. Three different stages are distinguished:

- factor-driven
- efficiency-driven
- innovation-driven.

This structure is similar to the traditional distinction of economies in developing economies, emerging markets and industrial economies.

The third principle or view is associated with how economies move from one stage of development to 32

| Table 3 |
|--------------------------------------|
| Global Competitiveness Index Ranking |
| in 2004-2005 |

| Global Competitiveness Index 2004 | | | | |
|-----------------------------------|----------------|------|-------------|--|
| Rank | Country | Rank | Country | |
| 1 | USA | 16 | Australia | |
| 2 | Finland | 17 | France | |
| 3 | Denmark | 18 | Austria | |
| 4 | Switzerland | 19 | Belgium | |
| 5 | Sweden | 20 | New Zealand | |
| 6 | Germany | 21 | Luxembourg | |
| 7 | Singapore | 22 | Israel | |
| 8 | Hong Kong SAR | 23 | Malaysia | |
| 9 | United Kingdom | 24 | Estonia | |
| 10 | Japan | 25 | Bahrain | |
| 11 | Taiwan | 26 | Korea | |
| 12 | Netherlands | 27 | Ireland | |
| 13 | Iceland | 28 | Jordan | |
| 14 | Norway | 29 | Chile | |
| 15 | Canada | 30 | Tunisia | |
| | | | | |

the next. These movements do not take the form of abrupt jumps, but rather exhibit more gradual transitions. This is reflected in the calculation of the new index by gradually adjusting the weights, as economies get to the next development stage.

Table 3 shows that Germany ranks 6th in the newly designed Global Competitiveness Index ranking. As no rankings for other years are available yet, the placement is difficult to interpret.

A Closer Look at **Germany's Performance**

As already mentioned, the new World Competitiveness Report 2004-2005 shows Germany as being considerably stronger with respect to its current productivity level (rank no. 3) than with respect to its growth potential (rank no. 13). Compared to the results of the rankings of the previous years, this does not represent a major change. To get a more detailed insight into certain features of Germany's competitiveness we take a closer look at the sub-indices. Table 4 shows the development of Germany's ranking in the sub-indices for the past three years. It reveals a mixed picture. The placement in the majority of sub-indices has remained relatively stable. Among the categories in which a slight improvement in Germany's relative position occurred is the index for the quality of public

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Table 4 The German Performance in Individual Indices and Sub-indices

| Index and Sub-index | Rank 2004 | Rank 2003 | Rank 2002 |
|---|--------------|--------------|--------------|
| Growth Competitiveness Index | 13 | 13 | 14 |
| Technology-Index | 12 | 14 | 12 |
| Innovation Sub-Index | 10 | 10 | 10 |
| Information and Communication Sub-index | 16 | 17 | 16 |
| Public Institution Index | 11 | 9 | 14 |
| Contracts and Law Sub-index | 9 | 9 | 10 |
| Corruption Sub-index | 9 | 10 | 17 |
| Macroeconomic Environment Index | 26 | 21 | 22 |
| Macroeconomic Stability Sub-index | 49 | 48 | 26 |
| Country Credit Rating | 8 | 7 | 2 |
| Government Waste ¹ | 44 | 32 | 71 |
| Business Competitiveness Index ² | 3 | 5 | 4 |
| Sophistication of Company Operation and Strategy | 1 | 1 | 2 |
| Quality of National Business Environment | 5 | 9 | 4 |

¹ In 2002: Level of government spending.

² In 2002: Microeconomic Competitiveness Index.

institutions. However, the macroeconomic environment shows a considerable deterioration for Germany over the three-year period.

Beyond the information derived from the rankings shown by the sub-indices, additional valuable information can be derived from the results of specific aspects examined in the survey among managers and from the relative ranking of an economy with respect to some of the official data that enter the study of the World Competitiveness Report. This allows setting up a list of comparative strengths and weaknesses of the economy, i.e. a national competitiveness balance sheet. For this purpose, the aspects in which a country performs particularly well or poorly relative to the other countries of the analysis can be drawn on. The results of such an exercise are shown in Table 5.⁴

Table 5 shows that the main problems of the German economy are in the areas of tax policies and the labour markets. Although these are not totally new results, they suggest that the reforms initiated in Ger-

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Table 5 Particular Strengths and Weaknesses of the German Economy

| Notable Competitive Advantages | | Notable Competitive Disadvantages | |
|---|---------------|---|---------------|
| Index / Indicator | Rank | Index / Indicator | Rank |
| Growth Competitive- ness Index | out of 104 | Growth Competitive- ness Index | out of 104 |
| Judicial independence | 3 | Real effective exchange rate (2003) | 84 |
| Company spending on research and development | 3 | Access to credit | 83 |
| University / industry | 4 | Recession expectations | 81 |
| research collaboration | 4 | Government deficit (2003) | 66 |
| Business Competitive- ness Index | out of 93 | Business Competitive- ness Index | out of 93 |
| Nature of competitive advantage | 1 | Quality of maths and science education | 46 |
| Capacity of innovation | 1 | | |
| Extent of branding | 1 | Quality of educational system | 43 |
| Stringency of environ- mental regulation | 1 | Ease of access to loans | 42 |
| Other Indicators | out of 104 | Other Indicators | out of 104 |
| Extent of market dominance | 1 | Efficiency of tax system | 104 |
| Compliance with interna- tional agreements | 1 | Flexibility of wage determination | 103 |
| | | Hiring and firing prac- tices | 102 |
| Prevalence of environmen- tal marketing | 1 | Tax burden | 99 |
| Prioritisation of energy efficiency | 1 | Maternity laws' impact on hiring women | 98 |
| Prevalence of socially responsible investing | 1 | Subsidies for energy or materials | 98 |
| Prevalence of corporate environmental reporting | 2 | Ease of hiring foreign labour | 91 |
| Prevalence and effective- ness of environmental reporting | 3 | Extent and effect of taxation | 91 |
| Prevalence of environmen- tal management systems | 3 | Pay and productivity | 72 |
| Freedom of the press | 4 | Agricultural policy costs | 70 |
| Importance of corporate social responsibility | 4 | Wage equality of women in the workplace | 62 |
| Importance of environ- mental management for companies | 4 | Private sector employ- ment of women | 58 |
| Business impact HIV/AIDS | 5 | Business costs of ter- rorism | 54 |
| Pervasiveness of money laundering through banks | 5 | Organised efforts to improve competitiveness | 45 |
| Political context of envi- ronmental gains | 5 | Effectiveness of law- making bodies | 44 |
| | | | |

⁴ Note that not all indicators examined by the World Economic Forum enter the calculation of one of the indices. In some cases, these aspects are only shown the listing of strengths and weaknesses of individual economies.

many in these areas may not be sufficient in the eyes of leading managers of international firms in Germany to remedy the economic problems. Rather more decisive reforms are required to secure Germany's international competitiveness and standards of living.

The Performance of Other European Countries

In order to analyse the performance of Germany's European partner countries, we split these countries into five subgroups: the large older EU economies, the small older EU economies, the economies that recently joined the EU, the countries that are EU candidate countries and the EFTA members. Table 6 shows their ranking in the Growth Competitiveness Index 2004-2005.

From Table 6 we can see that no single large EU country is among the top ten. Related to their economic importance for the world economy, this is a rather disappointing result for Europe. The worst performer among the group of large older EU members is Italy, which ranks 47th after having ranked 41st in 2003-2004. For the other countries in that group, a comparison with the 2003-2004 result indicates that their relative performance is stable, with the UK being a positive outlier (its ranking improved from no. 15 to no. 11). This relative stability of the positions also applies to the small older EU members, which partly perform much better than the bigger partner countries. The group of the new EU members shows much more dynamics in their relative performance between 2003 and 2004. Latvia, Malta, Hungary and Poland significantly dropped in the growth competitiveness ranking. However, compared to the older EU members, the new member countries - with the exception of Estonia and Poland - rank very close to each other in the 2004-2005 report. More specifically, eight out of the 10 new EU member countries rank between 32nd and 44th. Among the EU applicants, Bulgaria and Romania show the most impressing upward dynamics, while Croatia significantly dropped in the ranking. All of them now rank between the 59th and the 66th position. The EFTA members display the highest level of competitiveness. All are among the top ten performers.

Table 7 shows the ranking of the European countries with respect to the Business Competitiveness Index, which is supposed to express the microeconomic perspective of competitiveness. For the large

Table 6The Growth Competitiveness Ranks ofEuropean Economies in 2003 and 2004

| Country | GCI Rank 2004 | GCI Rank 2003 |
|------------------------|------------------|------------------|
| Large older EU members | | |
| ŪK | 11 | 15 |
| Germany | 13 | 13 |
| Spain | 23 | 23 |
| France | 27 | 26 |
| Italy | 47 | 41 |
| Small older EU members | | |
| Finland | 1 | 1 |
| Sweden | 3 | 3 |
| Denmark | 5 | 4 |
| Netherlands | 12 | 12 |
| Austria | 17 | 17 |
| Portugal | 24 | 25 |
| Belgium | 25 | 27 |
| Luxembourg | 26 | 21 |
| Ireland | 30 | 30 |
| Greece | 37 | 35 |
| New EU members | | |
| Estonia | 20 | 22 |
| Malta | 32 | 19 |
| Slovenia | 33 | 31 |
| Lithuania | 36 | 40 |
| Cyprus | 38 | NA |
| Hungary | 39 | 33 |
| Czech Republic | 40 | 39 |
| Slovak Republic | 43 | 43 |
| Latvia | 44 | 37 |
| Poland | 60 | 45 |
| EU applicants | | |
| Bulgaria | 59 | 64 |
| Croatia | 61 | 53 |
| Romania | 63 | 75 |
| Turkey | 66 | 65 |
| EFTA members | | |
| Norway | 6 | 9 |
| Switzerland | 8 | 7 |
| Iceland | 10 | 8 |

Source: World Economic Forum.

older EU economies, the microeconomic fundamentals are significantly better than the macroeconomic fundamentals, with Spain being the only exception. Again, Italy holds the last position in this subgroup with a significant drop in the recent ranking. The group of the small older EU members again shows relatively stable positions in the BCI, with the individual country ranks also being closer to the corresponding GCI ranking than is the case for the large EU economies. The new EU members that significantly dropped in

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Table 7 The Business Competitiveness Ranks of European Economies in 2003 and 2004

| Country | BCI Rank 2004 | BCI Rank 2003 |
|------------------------|------------------|------------------|
| Large older EU members | | |
| Germany | 3 | 5 |
| UK | 6 | 6 |
| France | 12 | 10 |
| Spain | 26 | 25 |
| Italy | 34 | 24 |
| Small older EU members | | |
| Finland | 2 | 1 |
| Sweden | 4 | 3 |
| Denmark | 7 | 4 |
| Netherlands | 9 | 9 |
| Belgium | 14 | 15 |
| Austria | 16 | 17 |
| Ireland | 22 | 21 |
| Portugal | 33 | 36 |
| Greece | 41 | 39 |
| Luxembourg | NA | NA |
| New EU members | | |
| Estonia | 27 | 28 |
| Slovenia | 31 | 30 |
| Czech Republic | 35 | 35 |
| Lithuania | 36 | 40 |
| Slovak Republic | 39 | 43 |
| Hungary | 42 | 38 |
| Cyprus | 45 | NA |
| Latvia | 49 | 29 |
| Malta | 50 | 42 |
| Poland | 57 | 47 |
| EU applicants | | |
| Turkey | 52 | 52 |
| Romania | 56 | 76 |
| Croatia | 72 | 62 |
| Bulgaria | 75 | 77 |
| EFTA members | | |
| Switzerland | 5 | 7 |
| Iceland | 19 | 14 |
| Norway | 20 | 22 |

Source: World Economic Forum.

the BCI ranking are basically the same countries that dropped in the GCI: Latvia, Malta, Hungary and Poland. Among the EU applicants, Romania significantly improved its business environment and Croatia lost ground. The two latter country groups display a much higher dissimilarity in their BCI ranking than in the GCI ranking. This might indicate their different stages in the transition process. With the exception of Switzerland, the EFTA economies do not perform as well as in the GCI.

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Summary and Conclusions

The Global Competitiveness Report of the World Economic Forum represents the most comprehensive study of the international competitiveness of individual countries. It uses a solid theoretical and fairly detailed concept that in its empirical application combines data from national statistics with a survey among leading managers. The authors are continuously modifying the concept on the basis of new research results. Some of the most famous economists participate in this process.

Our brief discussion of the relative performance of Germany in the new Global Competitiveness Report 2004-2005 should be used by politicians in Germany not to stop with the recent economic reforms, as much more seems to be necessary to secure productivity growth and high competitiveness in the future. Although Germany ranks third in the assessment of the current level of competitiveness (Business Competitiveness Index), which is even a slight improvement from the fifth position of last year, Germany does not belong to the top 10 countries in the assessment of the prospect of future productivity growth. More specifically, it ranks only number 13 in the Growth Competitiveness Index. This suggests that Germany needs additional economic reforms or its relative productivity level will decline. As a matter of fact, the study points to specific areas where reforms are needed. As the study was performed by some of the best economists in the world and as the World Economic Forum is not associated with any political party, it can be hoped that this assessment will not go unnoticed among policymakers.

The performance of the European economies is rather mixed. All large older EU economies are comparable to the German one: their ranking in the GCI is rather disappointing. The success of Finland, Sweden and Denmark can be interpreted as support for the effects of structural reforms. These countries are among the top performers in both indices. The current ranking also indicates that some of the new EU countries (Latvia, Malta, Hungary and Poland) as well as Croatia lost dynamics in the transition process and dropped significantly in both indices.