

# Quo Vadis, Europe?

Fortress or land of opportunities?



Invitation

Julian Hodge Institute of Applied Macroeconomics

# Annual Lecture

Paul De Grauwe, Wednesday 25th April 2007





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He has been a visiting professor at various universities, including the University of Paris, the University of Michigan, the University of Pennsylvania, Humboldt University Berlin and the University of Amsterdam. He has also been a visiting scholar at the IMF, the Board of Governors of the Federal Reserve and the Bank of Japan. His research interests are international monetary relations, monetary integration, the theory and empirical analysis of the foreign-exchange markets, and open-economy macroeconomics. His published books include “The Economics of Monetary Union” (Oxford), “International Money - Post-war Trends and Theories” (Oxford) and “The exchange rate in a behavioural finance framework” (Princeton). He is a member of the Group of Economic Policy Analysis, advising President Barroso.

## Julian Hodge Institute of Applied Macroeconomics

In May 1999, Cardiff Business School and Julian Hodge Bank announced a major new initiative, the establishment of the Julian Hodge Institute for Applied Macroeconomics. The aim of the institute is to carry out research into the behaviour of the UK economy, and to study in particular its relationship with the other economies of Europe. This research is given added urgency by present discussions on the future of the EU's draft constitution and its economic policies generally. The new institute aims to develop research relevant to this important debate.

The institute's first Director is Professor Patrick Minford, of Cardiff Business School, who is also the Economic Adviser to Julian Hodge Bank. The institute's staff of researchers are mainly based in the school. Research activity in the area of applied macroeconomics is already considerable; work on a variety of issues related to the topics the new research will study has been published in leading scientific journals and books. The institute also publishes regular forecasts and policy analysis of the UK and other major economies.

## Introduction

The perception about Europe's economy has been almost universally negative during the last ten years. Declining productivity, losses in market shares, lagging innovation in hi-tech industries, stubbornly high unemployment, declining population and intractable pension problems; these are the problems that have created a perception that Europe is on the decline. This negative perception has been fed by a positive perception of the US economy: high growth, accelerating productivity growth, low unemployment, flourishing hi-tech industries; these are the US success stories that have provided the contrast against which the dismal economic performance of Europe has been measured.

From this negative perception about Europe's economic problems grand theories have been developed about what Europe should do to stop the economic decline. Invariably, these grand theories have included "structural reforms" as the magic formula to solve Europe's ills. This suggests that Europe's ills have deep structural causes that can only be solved by deep structural changes.

In this paper I will argue that this focus on deep structural problems of Europe is excessive; that some of the problems are cyclical in nature and will tend to disappear. The reverse side of this coin is that some of the US successes that are now perceived to be the result of deep positive structural features are also the result of cyclical factors that will tend to disappear.

This does not mean that Europe does not have structural problems. The ageing population, for example, and the ensuing pension problem are structural in nature and are serious. There are rigidities in Europe's goods and labour markets. We will give due attention to these problems. We will argue, however, that these structural problems are insufficient to explain Europe's dismal economic performance of the last ten years.

It will be useful to first ask what the facts tell us about the dismal European economic performance and the US

the long-ter  
the recent developments since 2000.

### 1. The facts about Europe's dismal economic performance

Per capita income of the EU-15 has remained stuck at about 70% of the US level since the 1970s. While per capita income of the EU had been catching up with the US prior to 1970, since that date the catching-up process has stalled. Underlying this phenomenon are quite different trends in productivity and working hours. In order to shed some light on the question we reproduce here a figure from the Sapir report (see Figure 1). The figure confirms that EU per capita GDP has remained at approximately 70% of US per capita GDP since 1970.

GDP per capita can be decomposed as follows:

$$\frac{GDP}{N} = \frac{GDP}{H} \frac{H}{N}$$

where  $\frac{GDP}{N}$  is per capita GDP (N is the number of inhabitants), H is the total number of hours worked; thus

$\frac{GDP}{H}$  is the production per hour worked (hourly productivity) and  $\frac{H}{N}$  is to be interpreted as the

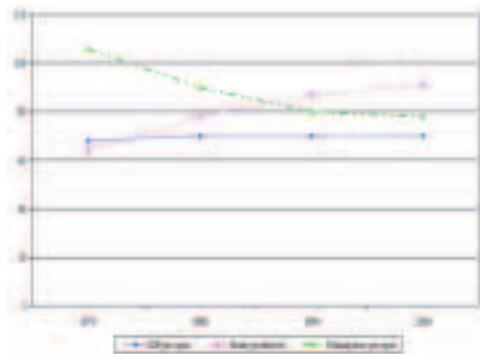
working hours per capita.

Figure 1 shows the evolution of these variables since 1970, where the US is the benchmark (US=100). We observe that underlying the unchanged per capita GDP of the EU (relative to the US) are strongly opposing tendencies in hourly productivity and hours worked per capita. We see that since 1970 hourly productivity in the EU has continued to increase faster than in the US so that in 2000 hourly productivity in the EU had almost reached the US level. This gain in productivity was almost completely offset by a decline of the number of hours



worked by EU-citizens. Thus it appears that the EU was quite successful in bridging the productivity gap with the US but that this gain was completely offset by a reduction of the total number of hours worked in the EU.

**Figure 1: GDP per capita, hourly productivity and working hours per capita in the EU-15 and the US (US=100)**



Source: Sapir, A., et al. (2004).

Before trying to give a welfare interpretation to these trends, it is important to discuss some methodological issues. The first has to do with the measurement of productivity, the second with the hours worked per capita.

### 1.1 Productivity

It is clear that measuring productivity is not an easy matter. Its interpretation is even more hazardous. Two problems have been stressed in the literature (see Blanchard(2004) for a more extensive discussion). A first problem is that the productivity growth numbers of the EU may overestimate the true productivity growth. The reason is that minimum wages, which are very prevalent in the EU, tend to keep the low skilled (low productivity) workers out of jobs, and thus outside the statistics used to compute average productivity. Minimum wages work like Olympic minima. When the minimum Olympic qualifying jump is raised, the average of the high jumpers attending

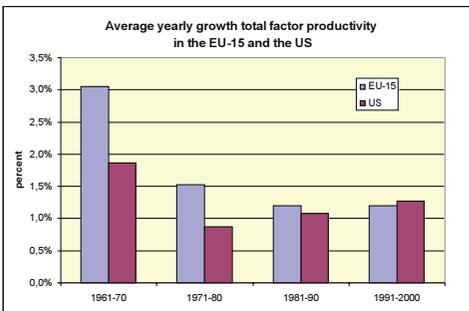


the Olympics will be higher, even if none of these participants now jump higher. While certainly a problem, the quantitative importance of the existence of minimum wages on measuring productivity is likely to be small. This can be seen as follows. Unemployment in the EU is around 7.5% while the US unemployment rate is about 4.5%. Assume that the extra EU unemployment is all due to the existence of too high minimum wages. This means that 3% of the EU-labour force is out of work because excessively high minimum wages. Thus to compare the EU-productivity average correctly with the US one should add these 3% of low productivity workers to the EU employed workers and recompute the average productivity. The latter would now be lower, but by how much? The effect must be very small. Assume that the 3% low skilled workers that are added to the workforce realize a productivity which is half of the average productivity of those employed. In that case we find that the average EU productivity level would be reduced by 1.5%. Thus instead of achieving an hourly productivity level of 92% of the US level (in 2000), the EU-productivity level would have to be scaled down to

90.5%. This recomputing of EU-productivity level would hardly affect the yearly growth rates that have been systematically higher in the EU than in the US since 1970.

There is a second problem with the productivity numbers. This has to do with the fact that higher wage costs in the EU give incentives to EU-firms to use more capital intensive production processes. As a result, EU-workers are endowed with a larger capital stock raising their productivity. In order to deal with this problem one can compare the evolution of total factor productivity between the EU and the US. We show these numbers in figure 2. We observe that until the end of the 1980s total factor productivity was increasing faster in the EU than in the US, until the 1990s when the these growth rates in the EU and the US converged.

**Figure 2:**



Source: [http://ec.europa.eu/economy\\_finance/indicators/annual\\_macro\\_economic\\_database/ameco\\_applet.htm](http://ec.europa.eu/economy_finance/indicators/annual_macro_economic_database/ameco_applet.htm)

From the preceding evidence it appears that after a period of catching-up the EU-total-productivity growth numbers have settled to levels comparable to the US (We will focus on the post-2000 period in the next section). In some EU-countries (Belgium, France, Italy and the Netherlands) the average productivity per hour exceeds the US level.

We saw earlier that the EU-productivity growth was compensated by a reduction in total working time per capita. How to interpret the latter phenomenon? Is this the result of a choice of European citizens to transform the productivity growth into more leisure time, in contrast to the US citizens who decided to transform the productivity gains into more production of goods and services? Or alternatively, is it due to high labour taxes in the EU which distort the choice between labour and leisure as has been argued by Prescott(2003).

After a careful analysis, Blanchard(2004) comes to the conclusion that high labour taxes explain only a small fraction of the decline in total labour time in the EU. In addition, labour taxes do not fall out of the blue sky. They are the outcome of a democratic process that, like the market system, reveals preferences of the citizens. It is therefore quite legitimate to conclude that the declining labour time observed in the EU is the result of choices made by EU citizens.

The question that arises here is why EU-citizens have made such drastically different choices compared to US-citizens? After all they live in countries with comparable institutions and levels of economic development. One possible answer is the following. The utility of leisure time has a collective component. For most individuals extra leisure time spent alone does not add much utility. The utility of extra leisure time for one individual increases when others (spouse, family, friends) also have extra leisure time. The reason is that the greatest benefits of leisure time for most individuals are obtained when this leisure time is spent with others. This collective good component of leisure time creates a problem of collective action. If leisure time were a pure private good, an individual desiring more leisure time could decide on his own to take more leisure and that would be it. Given the collective good nature of leisure time an individual's desire to enjoy extra leisure can only be fulfilled if many others at the same time decide to take more leisure. Collective action is necessary. But collective action is costly.



Here comes the role of labour unions. Labour unions encompassing a large part of the labour force are institutions that can overcome the collective action problem in the demand for leisure. They are capable of organizing the individual desires for more leisure time into collective action. European labour unions have typically been willing and capable to do so. As a result, they have successfully translated the individual desires for more leisure time into a collective demand for more leisure time. The contrast with the US is great. The weakness of US labour unions has not made it possible to overcome the collective action problem of the individual desire by US workers for more leisure time.

## 2. Some preliminary welfare implications

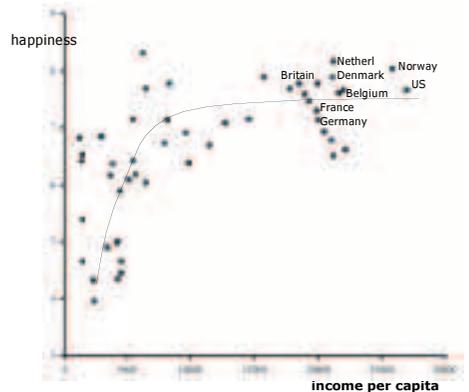
There is a widespread view that the US has developed a superior economic model compared to the European model (if such a single model exists, but that is the topic of a later discussion). The single most important indicator used in this evaluation is the fact that the EU has been unable to catch up with the US as far as per capita income is concerned. Thus, the US with a per capita income that exceeds the EU's by more than 30% has delivered more goods and services to its citizens than the EU, and thus more welfare.

Economists have learned that what matters for welfare is neither GDP nor per capita GDP. The analysis of the previous section teaches us that the simple comparisons of per capita GDP cannot be used to make valid welfare comparisons. The US has achieved higher per capita income levels than the EU not because of superior productivity achievements but primarily because US citizens have decided to work more and to take less leisure. EU citizens have made other choices and have used the productivity gains not so much to increase the production of extra goods and services but to take more leisure. There is no way one can conclude from this evidence that the US has produced more (or less welfare) for its citizens than the EU.

This conclusion is confirmed by studies that measure happiness ("satisfaction in life") across countries (see

measures are of difficulties. Yet the striking fact emerging from numerous studies is that (after some threshold value) increasing per capita income does not seem to affect happiness of individuals. The following graph is illustrative of a phenomenon that is widely observed in happiness studies comparing different countries (see Figure 3). After a threshold value of about \$10,000 increases in per capita incomes cease to affect measures of happiness. These studies also indicate that the superior level of per capita income of the US does not appear to have raised levels of happiness above the levels observed in the EU.

Figure 3: Happiness and per capita income (dollars)



Source: World Values Surveys and Worldbank, World Development Report

There is therefore no reason to conclude that the US economic model is in any way superior to the EU-economies. The greater choice of goods and services it provides for its citizens does not seem to have made US citizens happier on average than EU citizens. One reason could be that in order to enjoy these extra goods and services (a source of happiness) US citizens have to toil harder (a source of unhappiness).

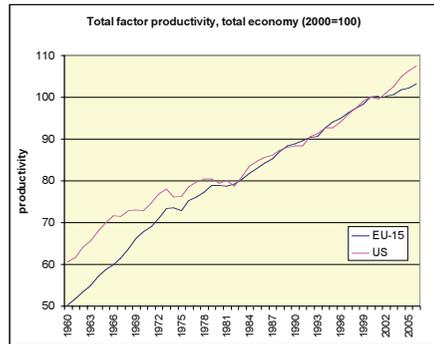
There are other dimensions of welfare (income distribution, unemployment, social security) that should be drawn in the analysis. These are outside the scope of the present paper.

### 3. The post-2000 productivity developments: structural or cyclical?

Since the late 1990s productivity growth in the EU has stalled while the US has experienced an upsurge in its productivity growth numbers. We show this in figure 4 which is a follow-up of figure 2 extending the period to 2006.

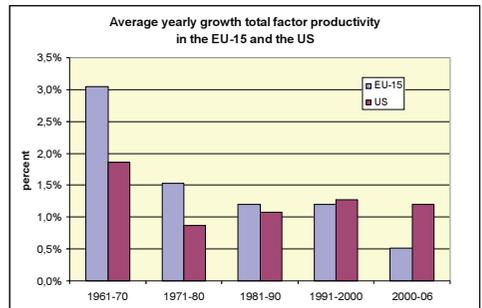
We observe that the slowdown of total factor productivity growth in the EU since 2000 has been significant<sup>1</sup>. This has led many observers to speculate that this reflects a long-term downward trend in EU-productivity growth. And looking at figure 4 it appears that indeed the EU is on an inexorable downward path. Grand theories are now popular explaining us that Europe is a lost continent, full of structural rigidities incapable of reforming itself and to face the competitive forces of a globalized economy. Sometimes just a different presentation of the same numbers can change the perspective, though. Here is a new graph presenting the same productivity numbers as indices over the period 1961-2006. The visual impression obtained from this picture is quite different from the one obtained from figure 4. It appears that most of the catch-up phase of EU-productivity ended at the start of the 1980s. From then on productivity growth has been pretty much the same in the EU-15 and in the US. But there are quite significant cyclical movements.

Figure 4:



Source: [http://ec.europa.eu/economy\\_finance/indicators/annual\\_macro\\_economic\\_database/ameco\\_applet.htm](http://ec.europa.eu/economy_finance/indicators/annual_macro_economic_database/ameco_applet.htm)

Figure 5



Source: [http://ec.europa.eu/economy\\_finance/indicators/annual\\_macro\\_economic\\_database/ameco\\_applet.htm](http://ec.europa.eu/economy_finance/indicators/annual_macro_economic_database/ameco_applet.htm)

We illustrate these cyclical movements in productivity growth for different periods in the US and we contrast these with the recent EU developments. In figure 6 we show the yearly productivity growth numbers for the US during 1976-91. Figure 7 shows the productivity growth numbers in the EU-15 during 1997-2006. It is striking to find how cyclical these movements are. During 1976-82 there was a pronounced slowdown in US productivity that

<sup>1</sup> In fact the slowdown came a few years before 2000. The fact that during the 1990s average yearly productivity growth in the EU was at the same level as in the US has to do with the low productivity growth in the US during the early years of the 1990s.



certainly matches in intensity the slowdown in the EU-15 during the recent period. A similar slowdown occurred in the US from 1984 to 1991. Note also that the whole period 1976-1991 was one of low productivity growth in the US (0.9% per year) that matches the one observed in the EU-15 during 1997-2006 (0.8% per year). (The comparison of figures 6 and 7 also shows that the US numbers are more variable in the short run than the EU-numbers)<sup>2</sup>.

This comparison of different historical episodes suggests that there is some hazard in interpreting the recent productivity growth decline in the EU as a structural phenomenon. It reminds me of the stories that were told about the US at the end of the 1980s and the early 1990s that the slow productivity growth in the US reflected deep structural problems in American capitalism. These were the days when well-known economists like Paul Krugman wrote best sellers predicting the long term decline of American capitalism<sup>3</sup>. How risky it was to extrapolate what was a cyclical phenomenon into the indefinite future, and to develop theories explaining these so called structural developments.

Many analysts commenting on Europe risk making the same mistake. Based on the evidence of the slowdown of EU-productivity growth since the late 1990s theories have been developed to explain this slowdown. The most popular one is that the EU suffers from structural rigidities, both in the goods and the labour markets. The rigidities in the goods markets are particularly relevant in the framework of these theories. Excessive regulation, protectionism, barriers to entry prevent EU-firms from moving into the new hi-tech industries and from developing new products and new technologies. As a result, productivity is negatively affected. This theory is now repeated so often that it has become a universally held belief in the EU. It has become part of the conventional wisdom.

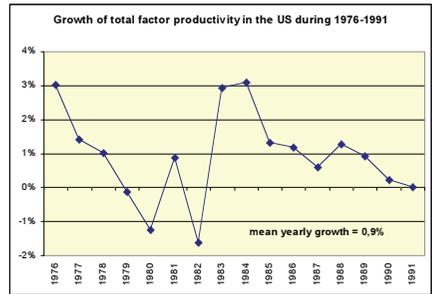
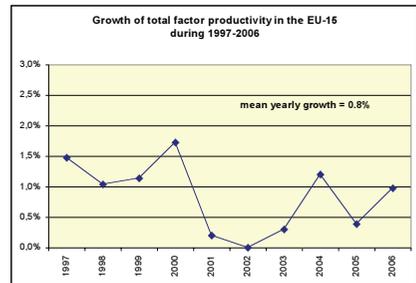


Figure 7



Source: [http://ec.europa.eu/economy\\_finance/indicators/annual\\_macro\\_economic\\_database/ameco\\_applet.htm](http://ec.europa.eu/economy_finance/indicators/annual_macro_economic_database/ameco_applet.htm)

There is no doubt that there are structural rigidities in the EU. The question, however, is whether they explain the recent productivity slowdown. One way to find out is to exploit the fact that the productivity developments within the EU have been very different. If the source of the slowdown is to be found in goods market rigidities one should find that countries with fewer goods market rigidities have been less prone to the productivity slowdown than countries with more rigidities. Put differently we test whether differences in product market

<sup>2</sup> See also Robert Gordon(2003) who has claimed for a long time that a significant part of the US productivity growth of the last ten years has an important cyclical component.

<sup>3</sup> See his "The Age of Diminished Expectations". He was not the only one. Lester Thurow predicted in his 1992 "Head to Head: The Coming Economic Battle Among Japan, Europe and America" that Europe under the leadership of Germany would be the winner.

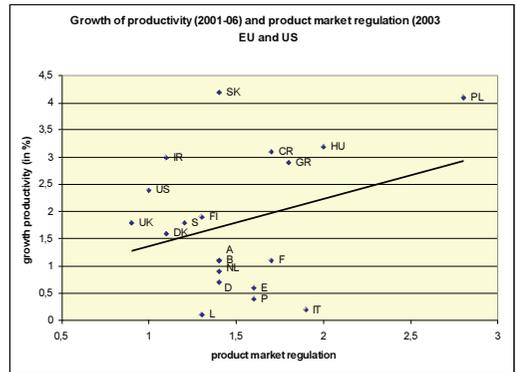
regulations are good predictors of different productivity developments.

The OECD has constructed an index of product market regulation. We will use this here. This index synthesizes different indicators of product market regulations (e.g. price regulations, barriers to entry, protectionist measures, etc.). These indicators are described in more detail in appendix. We show the index computed for the year 2003 together with the average productivity growth during 2001-06 in figure 8. On the horizontal axis the index of product market regulation (PMR-index) is shown. The higher the index the more regulated are the product markets of the country in question. On the vertical axis we present the average growth rate of labour productivity during 2001-06.

The most striking feature of this figure is that the index of product market regulations does not seem to have any power in predicting the wide divergence in productivity growth developments. In fact it seems to predict the sign wrongly. A simple regression analysis reveals that the sign of the PMR-index is positive, predicting that countries with higher product market regulations have higher productivity growth. Since the coefficient is not statistically different from zero the correct conclusion at this stage is that the PMR-index has no significant effect on productivity growth.

The previous analysis suffers from a potential bias due to the omission of an important explanatory variable, i.e. the initial level of per capita GDP. Countries with a low level of economic development (low GDP-per capita) tend to have a lot of product market regulations. They nevertheless grow fast because they are in the catch-up phase of economic development. Thus the PMR-index correlates with the omitted variable, GDP per capita. We therefore ran a regression adding the initial level of per capita GDP as an explanatory variable. The results are shown in table 2. We observe that the PMR-index now has the correct sign but that it is not statistically significant. In contrast, the initial level of per capita GDP (YCAP) has a strongly significant effect. In addition, adding this variable to the regression equation dramatically increases its overall explanatory power (the R2 is raised from 0.08 to 0.52).

Figure 8



Source: for the PMR-index: Conway, Janod and Nicoletti (2005) and for the productivity growth: [http://ec.europa.eu/economy\\_finance/indicators/annual\\_macro\\_economic\\_database/ameco\\_applet.htm](http://ec.europa.eu/economy_finance/indicators/annual_macro_economic_database/ameco_applet.htm)

Table 1

Regression analysis: Dependent Variable: Growth Productivity

Variable	Coefficient	t-Statistic
C	0.519	0.50
PR	0.860	1.289
R-squared	0.084	

Table 2

Regression analysis: Dependent Variable: Growth Productivity

Variable	Coefficient	t-Statistic
C	15.89	4.00
PR	-0.92	-1.37
YCAP	-2.81	-3.95
R-squared	0.52	

Note: the variable YCA is expressed in logarithms.

We conclude that the widely different levels of product market regulations across countries have very little power in predicting the different productivity growth

4 A similar result was obtained by Griffith, Harrison and Simpson (2006).



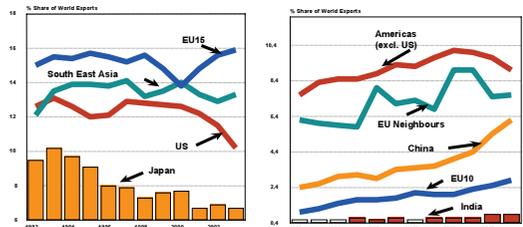
experiences of the same countries<sup>5</sup>. It is therefore doubtful that the recent slowdown in productivity growth in the EU-countries can be explained by the existence of structural rigidities in product markets. It also lends support to the view that there must be a significant cyclical component in the productivity developments.

#### 4. Is the EU-15 losing competitiveness?

The grand stories about the inevitable economic decline of Europe which results from deep-seated rigidities have created the perception that the EU is losing out in the worldwide competitive battle for market shares. Again the impression is created that the greater dynamism and the freer product markets in the US have allowed this country to be more successful in adapting to the pressures of globalization. As so often, these perceptions are not based on facts. Let us look at the trends in export market shares of the US and the EU-15 since the early 1990s. We show the evidence in figure 9 which is reproduced from the “EU Economy: Annual Review 2005” issued by the European Commission. The striking fact is that the US has lost market share in world exports during 1992-2003 while the EU-15 has been able to maintain its share. There are undoubtedly cyclical factors in these developments (especially the recent strong decline of US market shares may be partly due to valuation effects resulting from the depreciation of the dollar). Yet it is surprising to find that the economy that is universally considered to be the most productive and efficient one in the world does such a poor job in maintaining its market share in world exports, while

the EU-15 which is perceived to be an economic failure has kept its market share relatively intact during the last fifteen years.

**Figure 9: World export market shares for different countries/country groupings**



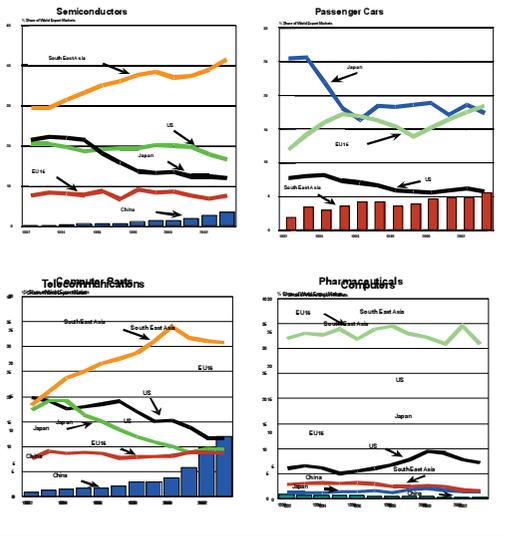
Source: European Commission, *The EU Economy: Annual Review 2005*

The next figure shows the evolution of the market shares for different product categories during the same period. The product categories shown here are mostly in the high- and medium tech categories. Again it is striking to find that the EU-15 has been more successful than the US in maintaining market shares, especially in high-tech product categories. This confirms again that the popular view of a weak Europe unable to compete in a globalized environment is not based on facts, and that the corollary of this view i.e. that the US economic powerhouse is successfully competing in the world market places is equally based on fiction<sup>6</sup>.

<sup>5</sup> A similar result was obtained by Griffith, Harrison and Simpson (2006).

One can conclude that the EU-15 compares favourably with the US as far as the competitiveness and the productivity of its open sector is concerned. Things are somewhat different in the non-traded (service) sector is concerned. Work by van Aark, et al.(2007) and the OECD(2007) shows that in the retail sector the EU-productivity growth lags the US productivity growth. There is a wide consensus that this is due to the significantly higher level of government regulations in the EU that aim at protecting the typically small shopkeepers. As a result, the introduction of more efficient distribution systems is retarded (van Aark, et al.(2007)).

Figure 10



## 5. Two tales about the US and Europe

Two opposing views can be formulated to explain the contrasting recent developments of the US and the EU economies. These two views originate from two very different theories of the business cycle. The first view runs as follows. The IT-revolution led to major technological

changes that had the effect of boosting US-productivity growth. US consumers saw this happening and correctly inferred that their permanent income had increased. This led to a boom in consumption. It was quite rational for US consumers to do so because the increase in the growth rate of productivity increased their “permanent income”, allowing them to borrow in the expectation that the much higher future income would make the debt (including the foreign one) easy to service.

In this view, the recent economic slowdown in the US is a temporary phenomenon. The consumption boom had the effect of raising inflation and the US Fed correctly reacted by hiking the interest rate. Once inflation is brought back on track, the US economy can return to its long term growth rate which has permanently been increased by the IT-revolution. A soft landing will result.

This optimistic view is steeped in the “real business cycle” theory which is nowadays the dominant academic theory. According to this theory, productivity shocks drive the business cycle. A positive productivity shock allows agents to borrow on their future expanded income. A boom ensues. A negative productivity shock lowers permanent income inducing consumers to borrow less.

This theory can also be used to explain the low growth in the Eurozone countries since the late 1990s. The source of this slow growth is a decline in productivity growth, which resulted from “structural rigidities” that hinder Europe to ride on the waves of the IT-revolution. The decline in productivity growth lowered consumers’ permanent income and reduced their willingness to consume. As a result, economic growth in the Eurozone was lethargic.

From this perspective, the recent upsurge in economic activity in the Eurozone should be seen as a temporary phenomenon. As long as structural reforms are not undertaken, productivity growth will remain low, and the Eurozone will have to return to its lethargic rate of economic growth.

Thus the dominant economic theory of the business cycle predicts that both the recent downturn in US economic

growth and the recent surge in Eurozone growth are temporary phenomena. Good news for the US; bad news for the Eurozone.

There is an alternative view, though, with very different implications for the future. This view starts from the idea that economic agents find it difficult to understand how the economy functions. For example, when the IT-revolution sets in, it is not clear in consumers' minds what this will mean for their future paychecks. This ignorance makes agents susceptible to herding behaviour, both as consumers and investors. They follow the lead of opinion makers who pretend to know the truth. In such an environment a wave of excessive optimism can easily develop. This optimism has a self-fulfilling character: because of their optimism consumers consume more and investor invest more, thereby validating the prevailing optimism.

An important feature of this wave of optimism is that the additional investment increases productivity thereby adding an extra self-validating feature. The economy appears to move to a new and permanent "optimistic equilibrium".

Nothing is permanent, though. The excessive optimism is unsustainable and leads to a correction. Doubts about the rosy picture set in. This easily degenerates into pessimism about the future economic developments. A reverse movement is set in motion with the same self-fulfilling features. Pessimism induces consumers and investors to spend less thereby validating the existing pessimism. Productivity growth declines. The economy appears to settle into a "pessimistic equilibrium".

The important feature of this alternative theory of the business cycle is that productivity growth is only partly an exogenous variable. It is, of course, influenced by technological and structural factors. There is, however, also an endogenous component to productivity growth which is driven by the willingness to invest, and this in turn is driven by the state of optimism or pessimism.

What does this theory imply for the future? If the business cycle is driven by waves of optimism and

pessimism, it is much less clear that the slowdown of the US economy is a short-term phenomenon to be corrected soon, nor that the Eurozone recovery will quickly peter out and turn back into lethargy. Instead, it is not inconceivable that the US economy gets stuck for a while in a "pessimistic equilibrium" while the opposite occurs in the Eurozone. The latter may very well enjoy staying in an "optimistic equilibrium" for a while.

Farfetched? Remember the 1980s and early 1990s when pessimism and low productivity growth prevailed in the US economy. It was followed by a period of euphoria and high growth. It seems more farfetched to believe that the US will continue to enjoy such a pleasant period indefinitely.

## 6. So what's wrong with Europe?

We have argued that Europe's weakness does not lie in lagging productivity (apart from productivity in the retail sector) and poor competitiveness. The recent slowdown in productivity is likely to have a strong cyclical component. In addition, the evidence suggests that European firms continue to perform at least as well as their US counterparts in facing the pressures of a globalized environment. This does not mean that Europe does not face structural problems. These problems, however, are to be found elsewhere. We identify two areas here. The first one relates to the financial implications of Europe's choice for more leisure. The second one has to do with Europe's inability to integrate relatively large segments of the population into the labour force.

### 6.1 *Who pays for leisure and pensions?*

We have seen that EU-citizens have chosen to convert part of the productivity growth into extra leisure time. There is nothing inherently wrong with such a choice. The problem is that this choice has coincided with major increases in the longevity of EU-citizens during the last few decades. The latter is of course good news. However, as the increased longevity coincided with a trend to less working hours and early retirement, it created an unexpected budgetary problem. It now appears that the

reduced working time and the simultaneous increase in longevity of the EU-citizens has created an unsustainable budgetary problem in many EU-countries.

This budgetary problem creates the need to confront the EU-citizens with the financing implications of their choice for more leisure time. The choice they now face is to keep their leisure time intact (including the early retirement schemes). In that case taxation on those who work will have to increase and/or pension payments will have to be reduced. The alternative choice EU-citizens face is to reduce their leisure time again (reducing or eliminating early retirement schemes) which will allow to avoid higher taxation of those who work and/or to maintain more generous pension payments.

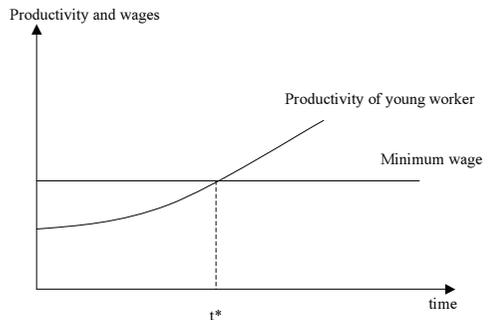
This choice has not yet been spelled out sufficiently clearly in many EU-countries. As a result, decisions are made by default. And these imply that the existing early retirement schemes are kept in place, so that inevitably a combination of higher labour taxes and lower pension payments will be the outcome. This is unfortunate as it will tend to increase the tax burden on the working population, reducing their welfare.

### 6.2 Insiders and outsiders

The social protection schemes developed in many continental EU-countries combine two features that have the effect of creating serious obstacles for newcomers to enter the labour market. These are minimum wages and employment protection legislation. The combination of the two is a deadly weapon aimed against the young who try to find a place in the job market. It is easy to see why this is so. Young workers typically have a productivity that is temporarily low because of a lack of experience. Their human capital and thus their productivity can only be increased by working. Given a chance to work their productivity will increase over time. We show this in figure 11 by the upward sloping curve showing how over time the productivity of a young worker increases. We show the minimum wage by the horizontal line. It has the feature that it exceeds the initial level of productivity. As the worker gains experience on the job, his productivity

increases and at some point ( $t^*$ ) exceeds the minimum wage, making the employment of the young worker profitable for the firm.

Figure 11: Effect of minimum wages



Thus the minimum wage per se does not necessarily discourage the hiring of young workers. There is a period during which the productivity is below the minimum wage. The firm will then be making losses employing the young worker, but this can be seen as an investment that will earn a profit in the future.

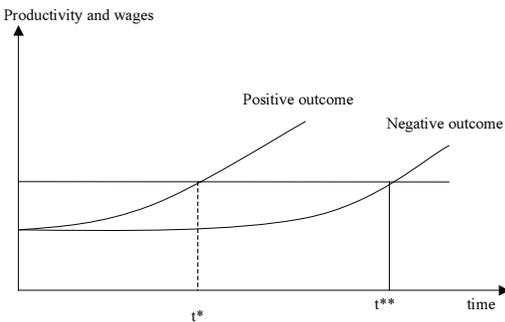
The problem for the firm is that at the moment of hiring, the future productivity development of the young worker is not known with certainty. For example, the productivity curve can be stretched longer shifting  $t^*$  to the right, making the investment in the young worker unprofitable (see figure 12). As a result, firms will only be willing to hire the young worker if they have the option of firing the worker when it turns out that his/her productivity schedule does not meet the minimum wage sufficiently fast.

Now comes the employment protection legislation. In many countries, (France is a good example), the law imposes on the hiring firm that the worker should be given a permanent contract that can only be rescinded after paying a very high penalty. It is easy to see that under those conditions many firms will be reluctant to hire workers whose future productivity schedule is unknown



to them, while they know with certainty that there will be an initial period during which the employment of the worker will be loss making. In this sense the combination of minimum wages and tight employment protection is a lethal weapon aimed at the young and preventing them from finding a job.

**Figure 12: Effect of minimum wages when future productivity is uncertain**

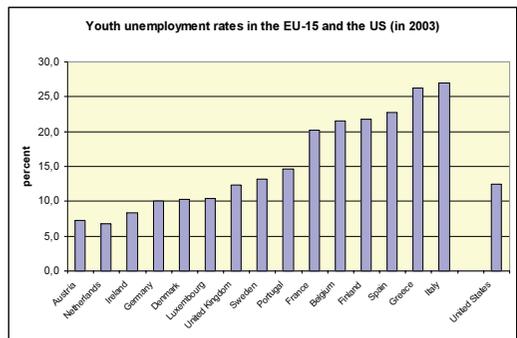


We show the youth unemployment rates in the EU and the US (2003) in figure 13. There are two noteworthy observations to be made. First, there is a wide disparity within the European Union as far as youth unemployment is concerned. We will return to this feature when we discuss models of social security. Second, youth unemployment rates of a number of EU-countries are very high exceeding 20%. With the exception of Finland, these tend to be Southern European countries. As has been documented by Sapir(2005), these are the countries where the kind of employment protection schemes discussed earlier tend to be prevalent.

There can be no doubt that the high youth unemployment rates observed in a number of EU-countries pose serious economic and social problems. Economic because a part of the future human capital of these nations is left untapped, reducing their long-term growth potential; social because, the unemployed young lose their sense of purpose and

self-esteem, creating a potential for social unrest and violence. It is clear, therefore, that these countries will have to reform their social systems so as to strip them from their protectionist features against the young. Resistance to do so, is strong, however, as the recent upheavals in France testify, when the government introduced timid reforms aiming at bringing somewhat more flexibility in labour contracts.

**Figure 13:**



Source: The Statistical Yearbook of the Economic Commission for Europe 2003

Note: Percentage of individuals aged 15-24 in the labour force who are unemployed (ILO-definition)

There is also a widespread fear in these EU-countries that reforming the social security system implies scaling it down in such a way that all forms of social protection will have to be abandoned. The choice is often presented as a choice between social protection and economic efficiency. Nothing could be farther from the truth. There are ways to reform the social security systems that maintain strong forms of protection while safeguarding efficiency and competitiveness. We will argue that it is not so much the size of social security systems that matters, but rather the way these are designed.

## 7. Is Europe's social model doomed?

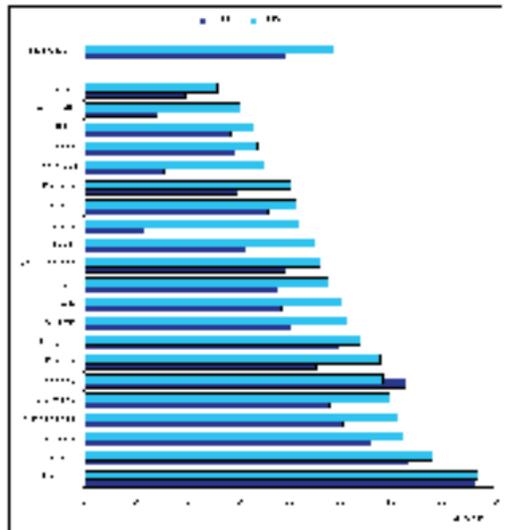
There is a widespread perception especially in Southern EU-countries that globalization endangers Europe's social security system. This view is often formulated as follows. Social security is expensive as it raises the cost of labour. As a result, profit maximising firms tend to curtail their activities in countries with high labour cost and move to places where the cost of labour is low and where the social security system is less extensive. As rich countries open their markets to imports from countries with lower labour standards and lower wages, employers and governments in rich countries are forced to adopt similar low standards in order to remain competitive. These phenomena create pressures on the countries with well-developed social security systems to scale back on them. A 'race to the bottom' is set in motion, whereby the competitive pressures arising from globalisation slowly erode social security. If not controlled, this dynamics may destroy one of the great social achievements of European countries – their capacity to guarantee a reasonable income to all citizens hit by unfavourable conditions.

How serious is this race-to-the-bottom scenario? Let us first look at some facts. We show social spending in the OECD-countries in 1980 and 1995 as a percent of GDP in figure 14. We observe that if anything social spending has increased in almost all OECD countries since 1980. In a second step we relate social spending to measures of competitiveness. The 'race to the bottom' hypothesis suggests that countries which spend a lot on social security pay a price in terms of competitiveness which will ultimately force them to scale down their social security systems.

In order to test for this hypothesis we relate the OECD social spending data to two indices of competitiveness as constructed by the World Economic Forum and by the IMD of Lausanne. These indices synthesise the different dimensions of the competitiveness of nations (cost and price competitiveness, capacity to innovate, quality of human capital, efficiency of government sector, and other indicators). In such a set-up, competitiveness should be understood as the capacity of economies to sustain the

forces driving the open world economy (For more detail about how these indices are constructed, see De Grauwe and Polan(2005)).

**Figure 14: Social Spending as a percent of GDP in OECD countries**

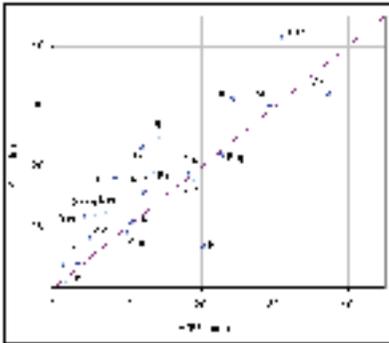


Source: De Grauwe and Polan(2005).

We show the two aforementioned indices and compare the rankings of the countries obtained with these two indices. This is done in Figure 15. We observe that, although the classification of countries in terms of their competitiveness is not the same, there is a reasonable degree of coherence between the two. The correlation coefficient between these two rankings is 0.8 (in 1999, 2000 and 2001).



**Figure 15: Scatter diagram of alternative indices of competitiveness.**



Source: De Grauwe and Polan(2005).

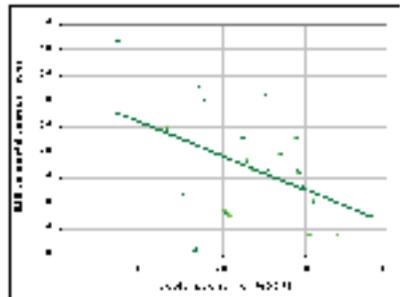
Next, we compare these competitiveness rankings with social spending by the OECD countries. Social spending includes spending on unemployment, disability, health care, pension, family services (including child benefits) and housing.

Scatter diagrams and regression lines in Figure 16 and Figure 17 show the relation between the competitiveness indices and social spending. The regression results themselves are shown in Table 1 and Table 2.

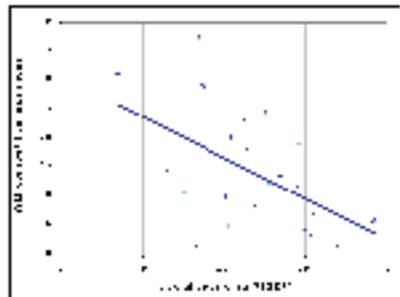
The results suggest that there is a negative relation between the competitiveness ranking and social spending. This means that the countries that spend larger proportions of their GDP on social needs also score best on the competitiveness scale (they have a low number in the ranking).<sup>6</sup> Note that we relate the average competitiveness during 1998-2002 (IMD) or 1999-2001 (WEF) to the social spending in 1997 (this is the last available observation that is comparable across OECD countries). In doing so, we minimize the potential for a

reverse causality. Reverse causality would occur if the countries with a high competitiveness rank created more domestic value added (their domestic product would be higher) and that, in turn, allowed them to spend more on social needs. By regressing competitiveness on past values of social spending we eliminate reverse causality as a possible explanation of the negative relations between social spending and competitiveness rankings .

**Figure 16: Social spending and IMD competitiveness index.**



**Figure 17: Social spending and WEF competitiveness index.**



Source: De Grauwe and Polan(2005).

<sup>6</sup> Note that the US is the most notorious exception to this rule; it is ranked first (according to IMD) and second (according to WEF) in terms of competitiveness during 1997-2001 and spends relatively little on social security, i.e. only 17%, compared to about 30% in most Northern European countries. Figures 16 and 17 make clear that the US is the exception to the rule. Nevertheless, the experience of the US has very much influenced the perception of the critics, who now claim that the US experience of high competitiveness and low social spending is a forebode of what globalisation will do in Europe.

**Table 1: IMD (average of 1998–2002) on social spending.**

Included observations: 21				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	24.912	7.6617	3.2514	0.0042
social spending	<b>-0.3725</b>	0.3057	-1.2186	<b>0.2379</b>
R-squared	0.0725	Mean dependent var		13.895

**Table 2: WEF (average of 1999–2001) on social spending.**

Included observations: 21				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	27.980	7.4879	3.7367	0.0014
social spending	<b>-0.6025</b>	0.2987	-2.0167	<b>0.0581</b>
R-squared	0.1763	Mean dependent var		13.396

The previous results suggest that there is no contradiction between spending a lot on social security and maintaining high levels of competitiveness. Scandinavian countries stand out in both superior levels of competitiveness and high social spending testifying for the view that there does not have to be a contradiction between the high levels of social security and competitiveness.

Why is it that some countries have been very successful in maintaining strong social security systems while remaining highly competitive, while other countries have failed to combine social protection and competitiveness? The answer has to do with the way social security systems are designed.

## 8. Different ways to design social security systems

André Sapir (2005) has introduced a typology of social security systems that is very useful in evaluating their design and their capacity to combine social protection and efficiency. We will use here the distinction Sapir makes between Scandinavian systems and Mediterranean systems (He distinguishes other types that are less pertinent for our discussion here).

The Scandinavian system of social security is characterized by four features. First, it is a system that guarantees a high level of compensation for unemployment; second it combines liberal unemployment

compensation with active labour market policies aimed at pulling the unemployed out of unemployment quickly, including stiff sanctions for those unwilling to work; third, it is embedded in a flexible employment legislation, allowing firms to hire and fire workers relatively easily; fourth, incentives are given to workers and firms to keep older workers on the job. The first three features ensure that in a world of rapid turnover of jobs, firms can easily dispose of redundant workers, while these workers find it relatively easy to move to another job. During the unemployment spells they obtain generous compensation (that they lose if they show no willingness to work).

The Mediterranean systems have very different features. First, the level of unemployment compensation is generally poor; second there is an almost complete absence of active labour market policies aiming at integrating the unemployed in the job market; third, as mentioned earlier, job protection schemes are very stiff, making it very difficult for firms to fire redundant workers with the effect that they are very reluctant to hire especially when faced with high minimum wages; fourth, governments in these countries give strong financial incentives for the older workers to exit the labour markets. The combination of these features leads to a situation in which large parts of the active population obtain some form of welfare payment (unemployment or pension) without any mechanism urging them to get out of inactivity. As a result, large amounts of human resources are wasted and social unrest is created. Ultimately this undermines the capacity of a nation to compete in the world market places.

In these “Mediterranean” countries there is indeed a contradiction between social security (i.e. the particular way it is designed in these countries) and competitiveness. These countries will have to reform their social security system to survive as competitive nations.

The previous analysis makes clear that the choice EU-countries face is not between social security and competitiveness. This choice is often caricatured as forcing European countries to move towards a US-style

7 In De Grauwe and Polan(2005) the reverse causality is tested further by the introduction of instrumental variable methods.



minimal social security in order to safeguard competitiveness. Different choices can be made. It is possible to keep strong social security systems in the EU and to maintain competitiveness if they are designed along the lines of the “Scandinavian model”. EU-countries that fail to do so, however, may indeed be forced by default to reduce the overall level of their social security systems.

### 9. Competition in social systems

The European Union is in a unique position in that it has kept social security systems national. This creates the possibility of competition between these social systems<sup>8</sup>.

The social security systems in Europe were developed in an environment in which domestic markets were significantly more protected than today. This was also an environment in which the forces of “creative destruction” analyzed by Schumpeter were not as intense as they are today. As a result, many social systems were focused on defending existing jobs as long as possible. They could do so as the competitive forces from the outside world were limited.

Globalization had the effect of accelerating the process of creative destruction. Many social systems were caught off guards especially those that are primarily geared towards protecting existing jobs. The Scandinavian countries which had developed the most extensive social systems were the first to be hit by these developments. Overhauls of the system occurred in countries like Sweden and Denmark during the 1990s. The focus changed. Instead of attempting to protect existing jobs, the focus switched to promoting employment in general. Labour unions in these countries stopped their futile protectionist attempts vis-à-vis existing jobs and accepted the dynamics inherent in creative destruction. This implied an acceptance that job turnover in dynamic market systems is inherently high and should not be resisted. At the same time the focus switched to policies aiming at assisting workers to find new jobs. This fundamental change in outlook helped to develop social security systems that do not stand in the way of developing highly competitive economies.

These new social security systems are the outcome of a new global environment. They are likely to spread around in Europe. As all EU-countries face the same pressure from globalization they are likely to take over the features of the more successful social systems. The fact that social systems have remained national facilitates this slow discovery of the fittest one. In this sense the EU-is well equipped to face the challenge of globalization.

The US has so far avoided having to make drastic changes in its social security system mainly because of the fact it has chosen for a minimal system which leaves millions of US citizens unprotected. This is likely to be unsustainable in the long run. The pressure to enlarge social protection will become increasingly felt, forcing the US to move towards European style of social security.

In this area Europe has a certain advantage over the US. The forces of globalization have forced EU-countries to innovate in the area of social security. Some of them have been quite successful in creating new social institutions that combine the desire of people for social protection and the maintenance of a high level of competitiveness. In this sense Europe has a lead over the US.

### 10. Inequality and mobility: the American Dream

The strength and the pride of America has traditionally been that it provides for a high level of social mobility. It is part of the “American Dream” in which the poorest of the poor can climb to the top of the social ladder in one generation. This dream has attracted millions of outsiders to the land of promise, away from old Europe which was incapable to provide a future for the poor. The high social mobility has also worked as “safety valve” to accept the high income inequality in the US.

Developments of the last decades have shattered this American Dream. Not only has income inequality increased significantly (see Piketty and Saez(2006)). More importantly, social mobility is now significantly lower than in a number of EU-countries, especially the Scandinavian countries. We show the evidence in Figures

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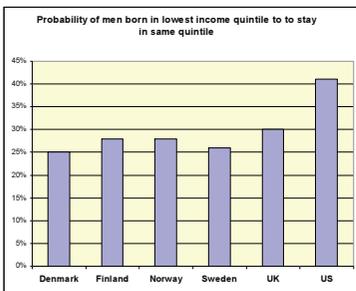
<sup>8</sup> See Sinn(2003) on systems competition.

18, 19 and 20. These results are quite spectacular. Figure 18 shows that while in the Nordic countries men born in the lowest income quintile (the income quintile of the father) have a probability of about 25% to stay in this lowest quintile. In the US, this probability is more than 40%.

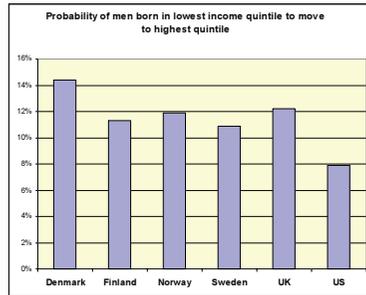
Figure 19 shows that the probability of US men born in the lowest quintile to move to the top quintile is less than 8%, while in the Nordic countries, this percentage is around 12%.

Finally Figure 20 shows that the happy US kids born in the top quintile are much less likely to tumble into the lowest quintile than in the same Nordic countries. Thus, however one looks at social mobility, this is now significantly lower in the US than in the Nordic countries (and also the UK). This leads to the issue of whether the large US income inequality in the US can be sustained in the long run when it becomes clear to US citizens that the American Dream is just a dream. It also leads to the conclusion that the Nordic EU-countries and the UK are more than the US the land of opportunities. Quite a reversal of history.

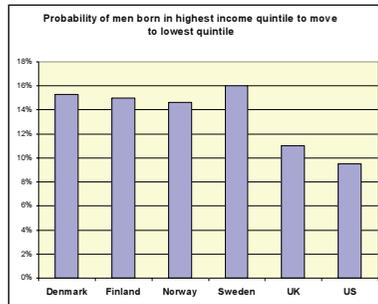
**Figure 18**



**Figure 19**



**Figure 20**



Source: Jäntti, et al. (2006).

The previous results suggest that there are deep structural rigidities in the US. In contrast to the structural rigidities observed in the EU which get a lot of attention, the US structural rigidities have gone almost unnoticed. And yet they are equally important for the long term economic development of a country. The poor social mobility observed in the US is likely to reduce the dynamism of American capitalism in the future. From this perspective Europe looks like a more dynamic place.

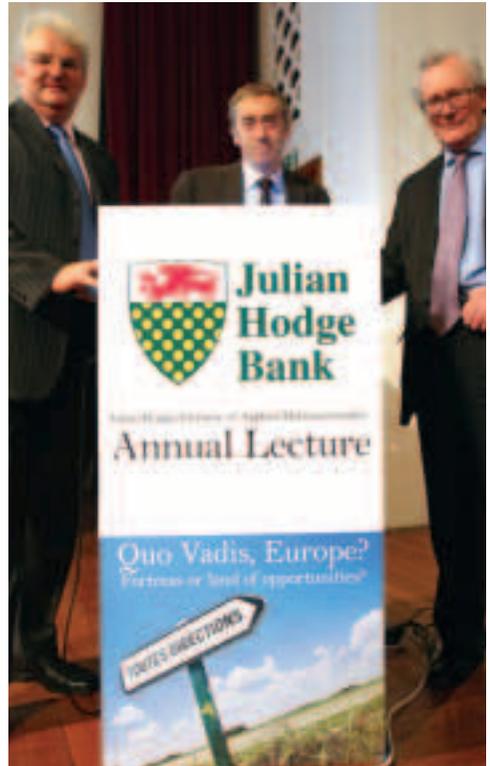


## 11. Conclusion

Pessimism has been rampant in many EU-countries during the last decade. This pessimism has been fed by lagging productivity growth in the EU since the late 1990s and a perception that the US has a superior economic model. This perception has led to the view that the only way to restore higher levels of productivity growth is by introducing deep structural reforms in the EU, making goods and labour markets more flexible. Although Europe suffers from structural problems, the single-minded focus on these problems is excessive. It has led to a perception that these problems are intractable and that Europe lacks the capacity to solve them in time. This negative perception in turn creates a sense of pessimism that feeds back on consumption, investment and economic growth. This also explains the recent productivity slowdown.

Thus a significant part of the productivity slowdown in the EU is cyclical and is bound to turn around. At some point it will become clear that the prevailing sense of pessimism is disconnected from the underlying strengths of the EU-economies. These strengths manifest themselves in levels of competitiveness that easily match the US level.

A corollary to this pessimistic view about Europe is that its social security systems are dinosaurs unable to survive the pressures of globalization. This will force EU-countries to drastically scale down the level of social protection offered to their citizens. We argued that this view is wrong. The choice is not between a high level of social protection and competitiveness. There are quite a lot of Northern EU-countries that have developed highly competitive economies while preserving strong social security systems. Conversely, other EU-countries, mainly Southern European countries have been less successful in combining competitiveness and social security. The key to the success of some and the failure of others is the design of social security systems. These can be designed in such a way that they are no obstacles to successful and dynamic economies.



An important advantage of the EU is that it has left its social security systems national, allowing competition to discover those systems that work and those that don't. This allows the EU-countries to innovate in social institutions and to create those that are best fit to survive the pressures of globalization. EU-countries are particularly well placed, and probably better so than the US, in this process of discovery of social systems that allow to combine efficiency and fairness.

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## Appendix

The PMR indicators Scope of public enterprises : this indicator measures the pervasiveness of state ownership across business sectors as the proportion of sectors in which the state has an equity stake in least one firm.

Size of public enterprise : reflects the overall size of state-owned enterprises relative to the size of the economy.

Direct control over business enterprises : measures the existence of government special voting rights in privately-owned firms, constraints on the sale of state-owned equity stakes, and the extent to which legislative bodies control the strategic choices of public enterprises.

Price controls : reflects the extent of price controls in specific sectors.

Use of command and control regulation : indicates the extent to which government uses coercive (as opposed to incentive-based) regulation in general and in specific service sectors.

Licenses and permits systems : reflects the use of 'one-stop shops' and 'silence is consent' rules for getting information on and issuing licenses and permits.

Communication and simplification of rules and procedures: reflects aspects of government's communication strategy and efforts to reduce and simplify the administrative burden of interacting with government.

Administrative burdens for corporations : measures the administrative burdens on the creation of corporations.

Administrative burdens for sole proprietors : measures the administrative burdens on the creation of sole proprietor firms.

Sector-specific administrative burdens: reflects administrative burdens in the road transport and retail distribution sectors.

Legal barriers : measures the scope of explicit legal limitations on the number of competitors allowed in a wide range of business sectors.

Antitrust exemptions : measures the scope of exemptions to competition law for public enterprises.

Ownership barriers : reflects legal restrictions on foreign acquisition of equity in public and private firms and in the telecommunications and airlines sectors.

Tariffs : reflects the (simple) average of most-favoured-nation tariffs.

Discriminatory procedures : reflects the extent of discrimination against foreign firms at the procedural level.

Regulatory barriers : reflects other barriers to international trade (e.g. international harmonisation, mutual recognition agreements).

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Source: Conway, P., Janod, V., Nicoletti, G., (2005)

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