Abstract

The EU 2020 Agenda has taken an important step forward by setting the target for tertiary graduation rates at an ambitious 40%. This paper finds, however, that many countries in Europe, including the largest economy - Germany - will not be able to meet this target. Moreover, the crucial topic of educational quality is not even touched upon. Comparing the EU with China in total numbers, the authors find that China's education system already produces the same number of graduates with tertiary education as the whole EU15. Given the large output of graduates, which is the key to productive spending on R&D, this means that China is likely to soon become a growing power in innovation. Initially the country is expected to concentrate on incremental innovation, with radical innovation to come only later and it is here, the authors warn, that the quality of the university system might represent a major obstacle in the Chinese government's efforts to close the gap with the US and the EU15 in terms of innovation potential.
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THE KEY ROLE OF EDUCATION IN THE EUROPE 2020 STRATEGY

CEPS WORKING DOCUMENT NO. 338/OCTOBER 2010

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Introduction

This paper examines the European Commission’s 2020 strategy focusing primarily on the dimension of education. It will first set out the European Commission’s educational targets for 2020 and comment on these targets and evaluate how realistically they can be met. Second, it will put forward an updated indicator for the innovational potential of the EU27 and OECD countries. An overall indicator will be compared to an indicator focusing solely on subjects related to science, engineering and mathematics. Third, the paper will elaborate on the wider non-cognitive skills that might be crucial for education. Fourth, it will briefly highlight the role of education in scientific R&D and overall investment in intangible capital. Fifth, the EU’s quantitative and qualitative educational performance is compared with that of the three major emerging countries – China, India and Brazil. Finally, it will conclude and offer some policy recommendations.

1. The Europe 2020 Strategy – Which educational targets are to be tackled?

In the area of education, the Europe 2020 strategy (European Commission, 2010a) sets two targets: i) reducing the number of early school leavers and ii) increasing the share of young adults who have completed tertiary education, i.e. the educational level following the completion of one’s secondary education, such as a high school, secondary school, university-preparatory school, or gymnasium. More concretely, the Europe 2020 strategy envisages reducing the early school leaver rate from 15% to fewer than 10%, whilst increasing the percentage of the population aged 30-34 who have completed their tertiary education from 31% to at least 40% by 2020. The second target is particularly crucial since education plays a key role in employment and competitiveness by increasing employability and by fostering long-term growth (Gros & Roth, 2008). This section examines the extent to which these goals have been achieved.

1.1 How far are we from the goal of reducing early school leavers to 10%?

Figure 1 shows the rate of early school leavers in the 27 member states of the European Union. Reducing the number of early school leavers should be considered crucial because the lower educated population faces lower employment rates (see Figure A.1 in the Appendix). This effect adversely affects an economy in two ways. First, due to their lower employment probability,
lower educated citizens are less likely to actively participate in the labour market and thus to contribute to productivity. Secondly, it is more likely that citizens who are not integrated in the labour market will become dependent on social transfers. A grouping of EU member states has already reached the goal of reducing early school leavers to 10%, notably the transition countries of Poland, Slovenia, the Czech Republic, Slovakia and Lithuania. Luxembourg, Finland and Austria are the three western European countries that have already reached the benchmark of 10%. Other western countries – namely Sweden, Ireland, the Netherlands, Denmark, Hungary, France, Germany and Belgium – are very close to reaching the goal. However, the four Mediterranean countries of Malta, Portugal, Spain and Italy present a dramatically different picture. In Malta over 35% of students leave school with only a lower secondary degree. In Europe’s fifth-largest economy – Spain – as well as in Portugal, the figure is still over 30%, and in Italy around 20% of its students leave school early. These numbers already underline the huge competitive problems of Spain and Italy’s economies. Taking the ongoing eurozone crisis into account, it becomes apparent that Spain and Italy have to undergo structural reforms, in the sense of investing in their stock of human capital, to be able to strengthen competitiveness in the long run.

Figure 1. Early school leavers in EU27: Distance to the 10% benchmark of the percentage of the population aged 18-24 with only lower secondary education not in education, 2009

![Graph showing early school leavers in EU27](image)


### 1.2 How far are we from the goal of 40% of tertiary graduation?

In the area of tertiary education, the Europe 2020 strategy calls for reaching a 40% graduation rate in every EU27 country. The distance to this goal differs widely from country to country. In Romania, the Czech Republic and in Slovakia, an immense effort would have to be made to fulfill the criteria. In these countries the tertiary graduation rate has to be increased by more than 20% by 2020, which means more than doubling the number of tertiary graduates in just one decade. Realistically this will not be possible for any of these three countries without a severe deterioration in the quality of such education. The same difficulty is faced by the two Mediterranean countries Portugal and Italy, the transition country Hungary and the coordinated country Austria. Whereas Italy would need to more than double its graduates, Austria would

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2 This can largely be attributed to the strong educational legacy of their socialist regimes.
still need to invest immensely to increase its tertiary graduation rate by more than 15% to reach the 40% benchmark.

Figure 2. Progress to be made to reach the Europe 2020 goal: Distance to the 40% benchmark of tertiary educational attainment of 30-34 year-olds, 2009

Source: Eurostat, Europe 2020 indicators, Brussels.

On the other hand there are those countries that have reached the 40% goal today: Ireland, Denmark, Luxembourg, Finland, Cyprus, Sweden, France, Belgium, the United Kingdom, Italy and the Netherlands. Quite astonishingly, Spain is very close to the benchmark. Ireland has experienced waves of highly skilled net migration, which contributed to its increase in tertiary educational attainment rates (European Commission, 2009: 62). Spain has already experienced a strong increase in its tertiary graduation rate between 1994 and 2003 (Machin & McNally, 2007: 6) and profited immensely from the implementation of the Bachelor of Arts undergraduate degree and especially of the expansion of the ‘sub-Bachelor of Arts’ programme (Hauptmann & Kim, 2009), which resulted in another rapid improvement in Spain’s tertiary graduation rate. However, notwithstanding these results, Spain seems to be characterised by a huge educational inequality with almost 30% of school leavers and 40% of the young cohort graduating from university. The second- and third-largest economies France and UK have both reached the benchmark of 40%. The largest European economy (Germany), however, is far from fulfilling the benchmark with a further increase of 12%.

2. Quantitative and Qualitative Educational Indicators: What has changed?

Although establishing a benchmark of 40% graduation at the tertiary level among the 30-34 year old population is a first promising start, a serious weakness of a benchmark is purely the fact that it is a single quantitative factor of the educational resources within the economy. Without adding a quality measure to this indicator, it is not possible to evaluate whether future graduates will be able to meet the requirements that are so crucial for future labour markets. This is why Gros & Roth (2008) decided to construct a composite indicator between a quantitative indicator, graduation rate from tertiary education, and a qualitative indicator, the given PISA test scores constructed by the OECD. Taking PISA test results, which were designed for evaluating high

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3 This might also be one of the reasons why Germany has called off EU summit talks on the education targets in the EU2020 strategy (EurActive, 2010) and why the European Council stressed once more that it is the competence of the member states “to define and implement quantitative targets in the field of education” (European Council, 2010: 12).
school performance, is surely a somewhat crude measure, but it still is the only indicator allowing a valid comparability among OECD countries. When analysing a composite indicator, for instance, Spain’s performance would be less successful as they underachieve in comparison with the rest of the EU in the quality of their education. Thus the benchmark of 40% is somehow weak without adding an additional benchmark for the quality of education. Figure 3 updates the innovation index presented in Gros & Roth (2008) by using updated data from the OECD.

Figure 3. Tertiary educational attainment and PISA test results, 2007

The distribution is still clearly led by the three OECD and non-EU countries Korea, Canada and Japan, followed by Ireland, Finland and Belgium. The two free-market economies countries US and UK are situated in the midst of the distribution and Germany is positioned in the lower third of the distribution, lagging clearly behind the other big European economies and the biggest transition country Poland. This finding is supported by Marin (2010: 23), who proves that the stocks of human capital of Germany and Austria fare poorly in an international comparison. Nevertheless, this indicator was criticised along several lines. It was argued that taking an indicator of overall tertiary graduation gives a skewed picture of reality. As the inclusion of graduates from the discipline of social sciences and humanities is not an appropriate proxy to measure the innovational capacities of a country, one would rather have to focus on the graduates from science, engineering and mathematics.

4 The OECD is also aware of the crucial need to evaluate the quality of European universities and has started to fund the Assessment of Higher Education Learning Outcome (AHELO).

5 However, one has to denote that Germany’s vocational education already carries out some of the training that is carried out in other EU27 and OECD countries at the university level.
Figure 4. Percentage of graduates in the sciences among employed 25-34 year olds and PISA science test results, 2007

Note: The percentage of graduates in sciences includes graduates in life sciences, physical sciences, mathematics and statistics, computing, engineering and engineering trades, manufacturing and processing, architecture and building. The PISA science score measures science literacy. Due to lack of data Canada is not included in the distribution.


Taking this argument into consideration, Figure 4 shows an index of the graduation rates of scientists multiplied by the achievement in the PISA science test. And indeed the picture changes slightly. Whereas Korea is still in the top position, Japan has fallen behind many European countries. The European ranking is led by Finland, followed by the two big economies France and the United Kingdom. However, Germany’s position has only slightly increased from the lower third of the distribution to the middle of the distribution. The US, which ranges in the lower third of the distribution, has to improve. Although one has to denote that the US is largely solving its problem of low educational quality by intensely ‘brain draining’ young talent from all over the world (Boeri, 2008 and Freeman, 2008). Thus the US is less dependent on its own labour force when it comes to educational quantity and quality.

Figure 5. Graduate rates in the sciences (2007) combined with PISA mathematics and science scores (2006)

As Germany is the biggest economy in Europe and as it is often described as the economic engine of the European Union, one wonders whether it is the simple fact that there is not enough interest in the study of science, mathematics, computing, engineering, manufacturing and construction on behalf of students or whether the drop-out rate from those subjects might be a driving force behind Germany’s lack of graduates within science. Figure 5 shows a measure of the interest of students in these fields in 2007 (the percentage of enrolments in these fields among all students) and the quality of students in mathematics and science in 2006 across EU27 countries. This graph gives a slightly different picture than the previous graph. Finland is still the leading country. Germany, in the second position, occupies a much better position than it does in terms of graduates. The Mediterranean countries Spain, Portugal and Greece are in high positions as well. The Netherlands and Belgium have the lowest enrolment rates in mathematics, engineering, computing, manufacturing and construction. The comparison of Figures 4 and 5 seem to underline that it is not the lack of interest in the topic of science but a significant drop out rate from the scientific sciences within Germany’s universities.6

3. A Wider Perspective: Non-cognitive Skills and Education

PISA scores measure cognitive abilities which are clearly linked with educational outcomes. But beside literacy, numeracy and abstract reasoning, other factors seem to be additionally at play in the determination of educational performance. These factors include self-confidence, persistence, conscientiousness, motivation, trust and other dimensions of social capital, such as social networks. In the literature they are often referred to as “non-cognitive skills”. In a rather recent body of literature the link between non-cognitive skills and human capital as well as labour market outcomes is being established by several prominent economic and non-economic researchers. Heckman & Rubinstein (2001) study a sample of American high-school dropouts who took a General Educational Development (GED) examination. This examination gives a second chance to dropouts by testing whether their cognitive abilities are equivalent to those of high-school graduates. The GED outcomes show that recipients of this diploma are as smart as high-school graduates and that it therefore cannot be cognitive skills alone that determine outcomes. Heckman & Rubinstein (2001) show that it is a lack in non-cognitive skills such as self-discipline that accounts for the gap in educational and labour market outcomes between high-school dropouts and high-school graduates.

There is a vast range of different non-cognitive skills that can affect educational and labour market outcomes. We consider social capital as an important non-cognitive skill for society in general and for education in particular. Putnam (2000) believes in a virtuous cycle between social capital and educational performance. He shows for different American states that a measure of social capital is positively related to student test scores.

Figure 6 tests Putnam’s hypothesis in Europe by studying the relationship between social capital in the form of interpersonal trust and PISA scores across European countries. In contrast to Putnam (2000), who finds a positive linear relationship in the US, Figure 6 shows that the relation is of parabolic nature across European countries. It is evident from the figure that PISA scores increase with higher levels of interpersonal trust. However, after a certain point, the relationship becomes negative. So there seems to be an optimal amount of trust for which PISA scores are at their maximum across European countries.

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6 Even a quick internet research reveals dozens of articles highlighting the high drop-out rate in mathematics, engineering and natural and technical sciences within in the German tertiary education system.
The OECD also recognises the link between education and social capital in its publication *Human Capital* by Brian Keeley (2007). According to Keeley, social capital increasingly interests policy-makers because of a rising concern over marginalisation in developed societies. Individuals can be marginalised because they do not have enough education and have not made the "right" social contacts.

4. **Why will the extension of R&D spending not work without educational investment?**

The goal of spending 3% of GDP on R&D has been carried over into the Europe 2020 strategy from the Lisbon strategy. Figure 7 shows the relationship between the percentages of tertiary graduates among the 25-34 year-old population and R&D expenditure per GDP. The figure shows that countries with higher stocks of people with a completed tertiary degree tend to have higher R&D expenditure and vice versa: countries with a low percentage of tertiary graduates tend to have a lower percentage of R&D expenditure per GDP.

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7 For a critical review on using R&D investment as the sole innovative indicator, see Tilford & Whyte (2010) and Roth (2010).
The graph gives some insights into the proposed aim of the Europe 2020 strategy to increase R&D spending to 3% of GDP. A large part of R&D expenditure is attributed to research personnel. Accordingly in extreme cases, an increase in R&D expenditure without an increase in the number of highly-skilled graduates might simply result in higher wages for the researchers. Focusing on this issue, Figure 7 indicates those countries for which an actual increase of their R&D expenditure is reasonable and those in which an increase in R&D expenditure seems to be unreasonable since there are not enough young highly-skilled graduates. In Ireland, for instance, an increase in R&D expenditure seems to be reasonable, as it has the second highest percentage of tertiary graduates, but at the same time it is among the countries with the lowest R&D expenditure. Similarly, the strategy to increase R&D investment in Greece, Poland and Spain also seems to be reasonable. Germany and Austria, on the other hand, have a relatively high expenditure on R&D with a relatively low proportion of young tertiary graduates. In their case it would not be recommended to increase expenditure in R&D if the percentage of young tertiary graduates is not increased.

Figure 8 shows the multiplicative effect of education and the growth of intangible capital on labour productivity growth. Intangible capital is interpreted as the capacity of an economy to innovate and to develop new technologies. The figure depicts a partial regression plot of growth of labour productivity on the annual growth rate of intangible capital stocks times the percentage of at least upper secondary educational attainment. The figure shows that the effect of intangible capital on growth depends positively on education. In other words, education fosters the effect of innovation on growth.
5. Where is Europe positioned? Are the emerging countries approaching?

It has been stressed that in order to preserve European competitiveness it is essential to invest in education. As a whole range of classic manufacturing has already shifted to lower wage countries such as China, India and many others, the creation of knowledge societies would permit European economies to generate future wealth. This argument, however, is based on the assumption that countries like China will continue to do solely manufacturing. The reality looks gloomier for the European economies. A special report from The Economist on innovation in emerging markets (2010) stresses that the emerging countries China, India and Brazil are becoming more and more innovative and following Japan’s economic development from the 1950s onwards, only much faster. This fact is also highlighted by China’s 2020 education strategy which is highly ambitious and plans huge investments in the upcoming decade. China aims for 195 million of its citizens to have tertiary degrees by 2020, thus almost as many graduates as half of the total EU27 population (Government of China, 2010). Freeman (2008) has already highlighted the immense effort the Chinese have been investing in building up its universities. According to some recent estimates, e.g. Li et al. (2008), there are already more PhD-level engineers and scientists in China today than in the US.

Figures 9-11 show comparable educational data for China, Brazil, India, the United States and selected OECD and EU15 countries for 2010 in relative and absolute numbers. The data are
taken from a dataset recently constructed by Barro & Lee (2010). Figure 9 shows the percentage of people with a completed tertiary degree for the 30-34 year old population, the generation that is just entering the labour market. These numbers reflect the countries’ future potential to innovate. Japan is in the leading position with 40%, followed by Canada and the US, with just above 25% and 20%, respectively. The EU15 countries have on average just under 20%. The BRIC countries are all situated at the low end of the distribution. China has around 5% tertiary graduates. This number, however, is bound to rise if China realises its plan to have 195 million tertiary graduates by 2020.

Figure 9. Comparison of human capital in selected OECD Economies, EU15 and BRIC countries: Percentage of the population (aged 30-34) with completed tertiary education, 2010

Source: Barro & Lee (2010).

Figure 10 shows a comparison of the total number (in thousands) of tertiary graduates within the population aged 30-34. This time the EU15 countries lead the distribution with around 5 million tertiary graduates aged 30-34. China is only slightly behind the EU15 with slightly less than 5 million people aged 30-34 and who have obtained completed tertiary education. The United States follows with about 4.2 million 30-34 year old tertiary graduates. According to the Barro & Lee (2010) dataset, India and Japan have about 3.2 million tertiary graduates in this age group.

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8 The Barro-Lee dataset differs from the Eurostat data used in the previous sections due to the different methodological approaches followed. As the Eurostat data has been constructed for comparative analyses of the EU27 solely and as we are in particular interested in a comparison among the EU15, the US and the emerging countries of China, India and Brazil, the Barro-Lee dataset was used. The education attainment rates for the 30-34 year old population are significantly lower in the Barro-Lee dataset in comparison to the Eurostat data.
Figure 10 clarifies that China, Brazil and India are clearly behind in relative numbers the EU15, the US, Canada and Korea. But in view of the large populations of both China and India, when studying a comparison in absolute numbers, China has already achieved nearly the same number of graduates as the EU15. In addition, taking the immense size of the Chinese population into consideration, the bar at the far right of the distribution shows the goal of the China 2020 strategy (proportionally to the goal of 195 million tertiary graduates by 2020 in total, the number for the 30-34 year old population should be around 17.3 million). One has to note, however, echoing our earlier comments, that tripling the graduation rate in China in one decade still seems to be highly unrealistic and if achieved, it will most likely result in a significantly lower quality within the educated academic workforce. However, China’s potential to rapidly increase its tertiary graduation rate can be inferred from the fact that it nearly quadrupled that rate over the two decades from 1990 to 2010. Thus doubling its graduation rate by 2020 might be quite realistic.

As both Figures 9 and 10 merely give a picture of the quantitative aspects of the future academic workforce, Figure 11 constructs a composite index9 including a measure of educational quality (the so-called “Shanghai index”10) and of quantity (the percentage of tertiary

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9 The composite indicator was constructed by multiplying the percentage of tertiary graduates among the 30-34 year-old population with the sum of the percentages of universities ranked among the top 20, top 100, top 200 and top 500. The data are weighted by applying the share of 30-34 year-old tertiary graduates over the population aged 15 years and older.

10 The European Commission (2010a: 10) notes that only two European universities are placed among the top 20 list in the Shanghai ranking. The index was first published in 2003 by the Centre for World-Class Universities and by the Institute of Higher Education of Shanghai Jiao Tong University and classifies universities according to criteria such as Nobel prizes and important prizes in mathematics won by the staff or by alumnus, publications in Science or in Nature and a set of criteria concerning the number of citations. It should be noted that rankings can come to rather different results. “QS Topuniversities” (www.topuniversities.com/university-rankings/world-university-rankings/2009/result), for example, places more UK universities in top positions and includes more European universities in the top 100 list. A European consortium for Higher Education and Research Assessment (CHERPA) is working on an alternative ranking, which is planned to be implemented by 2011. Moreover, this quality index should be interpreted with caution since a study by Frey & Rost (2009) shows that it is not necessarily an objective measure. They argue that the choice of the ranking method used alters the results and find that the evaluation should be based on measurements by independent experts rather than by publication and
graduates among the population aged 30-34 taken from the Barro & Lee (2010) dataset). The figure shows that the UK leads the ranking followed by the US and Canada, as well as Germany. Whereas France, Japan, Italy and Korea are located at the middle of the distribution, the emerging countries perform poorly when focusing on a composite index that includes the quality measure “rankings of universities”. Based on this composite index, the emerging countries China, India and Brazil will have to improve their universities immensely.

Figure 11. Tertiary education attainment (aged 30-34) and universities in top rankings, 2010


One of the remaining questions now is whether the Chinese economy will absorb these steadily increasing numbers of tertiary graduates by an increased level of R&D. The recent development of R&D can already provide some insights on this question. Figure 12 shows the total R&D expenditure (gross domestic expenditure on R&D) in selected countries for the private and the government sector for the period 1990-2008. The United States clearly has the largest numbers, followed by the EU15. Japan and Germany have the next largest figures. The expenditure on R&D in the EU15, Germany and Japan are all rising gradually. In the US there has been a stronger increase between 1994 and 2000 and after 2004. In China R&D expenditure is increasing at a faster rate since 2000. China overtook Germany in 2004 and will surpass Japan next if the rates of increase remain constant. The figure clearly underlines Chinese policymakers’ announcement that one of China’s main objectives on the political agenda is to focus on R&D and innovation. This policy seems to be quite reasonable considering the strategy shown above to triple the tertiary education graduation rate in 2020, which can then be allocated to the increasing R&D investments.

citation indices. In addition, Florian (2007) finds that the Shanghai ranking cannot be reproduced even when the raw data are available. However, as there is no other known available dataset to evaluate and compare the quality of international university systems, the authors still used the data from the Shanghai Index, despite its disadvantages.

11 Focusing on China’s investment in intangible capital would be even more worthwhile but to the authors’ knowledge, no comparable international data have been published on intangible capital investment by China, the US and the EU15.
6. **What to do? Policy recommendations for the next decade**

It is important that European policy-makers understand that the quantity and quality of education will play a key role in maintaining European competitiveness. The creation of knowledge societies in which knowledge creation among citizens is given top priority would be the appropriate step to unleash the creativity so badly needed for Europe’s future wealth. However, the establishment of this kind of knowledge society will need a radical rethinking on the part of European policy-makers when dealing with educational matters. The EU 2020 Agenda has taken an important step forward by setting the target for tertiary graduation rates at an ambitious 40%. However, many European countries, including the biggest economy Germany, will not be able to meet this benchmark in 2020. Furthermore, the crucial topic of educational quality is not even touched upon, although it is quite clear that the quality of education is as important as the quantity in the global competition for innovativeness. Interestingly, Chinese policy-makers fully understand the value of education, at least as reflected in their highly ambitious goals. In total numbers, China’s education system already produces the same number of graduates with tertiary educations as the whole EU15 and aims to triple this number within the next decade, according to the Chinese 2020 strategy. Given the large (and rapidly growing) output of graduates, which are the key to productive spending on R&D, this means that China, already a heavy-weight in medium-technology-intensive manufacturing, is likely to soon become a growing power in innovation. Initially the country will concentrate on incremental innovation (for which it will have a huge work force). Radical innovation might come only later, and it is here that the quality of the university system (as opposed to its size) might represent a major obstacle in the Chinese government’s efforts to close the gap with the US and the EU15 in terms of innovation potential.
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Appendix

Figure A.1 Employment rates by educational attainment for population aged 25-64 in 2007, by member state

Founded in Brussels in 1983, the Centre for European Policy Studies (CEPS) is among the most experienced and authoritative think tanks operating in the European Union today. CEPS serves as a leading forum for debate on EU affairs, but its most distinguishing feature lies in its strong in-house research capacity, complemented by an extensive network of partner institutes throughout the world.

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