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Working Paper

Ethnic Minority Youths in the Labour Markets in Denmark, Finland, Norway and Sweden

IZA Discussion Papers, No. 12274

Provided in Cooperation with:

IZA - Institute of Labor Economics

Suggested Citation: Niknami, Susan; Schröder, Lena; Wadensjö, Eskil (2019): Ethnic Minority Youths in the Labour Markets in Denmark, Finland, Norway and Sweden, IZA Discussion Papers, No. 12274, Institute of Labor Economics (IZA), Bonn

This Version is available at: https://hdl.handle.net/10419/196772

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DISCUSSION PAPER SERIES

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APRIL 2019



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ISSN: 2365-9793

IZA DP No. 12274 APRIL 2019

ABSTRACT

Ethnic Minority Youths in the Labour Markets in Denmark, Finland, Norway and Sweden¹

This paper uses administrative data to in detail document how the share of youths not in employment, education or training has evolved over time in the Scandinavian countries. We study both first- and second-generation immigrant youths as well as natives to explore whether the pattern differ depending on the region of origin. We show that the NEET rates are higher among youths with an immigrant background compared to youths with a native background in all countries. Even when controlling for youth background characteristics, first- and second-generation immigrant youths have significantly higher probability of being in NEET compared to native youths.

JEL Classification: J15, J13, J61, J64

Keywords: ethnic minority youths, NEET, Nordic countries

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¹ A shorter version of this paper has been published as Susan Niknami, Lena Schröder and Eskil Wadensjö, "Minority ethnic youth in the Nordic labour market: Policy responses and outcomes", Chapter 5, pp. 106–126 in Rune Halvorsen and Bjørn Hvinden (eds.), *Youth, Diversity and Employment. Comparative Perspectives on Labour Market Policies*, Edward Elgar Publishing, Cheltenham, 2018.

1. Introduction

There has been a dramatic increase in ethnic diversity in many European countries in the last few years. Since 2015, more than 3 million migrants has been seeking asylum in Europe². It is hardly controversial to say that this recent trend has contributed to the debate on the integration of immigrants into the labour market that has been dominating the political and public agendas in the last years.

The labour market situation of immigrants has been studied by a large literature (e.g. Borjas 1994; Chiswick 1991). The general finding from this literature is that immigrants face disadvantages in the labour market, with on average, both higher unemployment rates and lower earnings compared to natives (e.g. Oreopoulos 2011). While our understanding of the labour market situation of immigrants has improved in the last decade, there is still limited research on their children. This is mainly attributed to lack of high-quality administrative data that link immigrants to their children as well as the difficulties in measuring youths' labour market situation. Many youths are in education and thus outside the labour force. Standard labour market outcomes may therefore not reflect youth's true labour market situation. A perhaps better indicator of youth's labour market opportunities is therefore the share of youth, which are neither in employment, nor in education or training in the youth population, the so-called NEET rate. This indicator is broader since it also includes youths outside the labour force that are not in education or training. The NEET rates is however not available in most datasets.

In this paper, we use high-quality administrative data on the entire youth populations in Denmark, Finland, Norway and Sweden to in detail document how the NEET rates of the children of immigrants has evolved over time compared to the children of natives in the Scandinavian countries. The study asks whether the labour market situation of minority ethnic youth improved or deteriorated in the last decade. The compressive data enables us to study

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² https://ec.europa.eu/eurostat/statistics-explained/index.php/Asylum statistics

³ For Scandinavian results, see e.g. Andersson & Wadensjö (2004; 2012), Andersson et al (2014), Bratsberg et al (2017), Bratsberg et al (2018), Gerdes & Wadensjö (2016), Sarvimäki & Kari-Hämäläinen (2016), Sarvimäki (2017), Schultz-Nielsen (2017) and Åslund et al (2017).

⁴ For the youth labour market situation in the Scandinavian countries, we refer the reader to Celikaksoy & Wadensjö (2015), ISF (2013), Olofsson & Wadensjö (2012), Olli Segendorf (2013) and Statistics Sweden (2013).

both first- and second-generation immigrant youths and to explore whether the pattern differ depending on the region of origin. Our results show that NEET rates are highest among first generation immigrant youths and lowest among native youths. The NEET gap between immigrant and native youths is highest in Denmark and Finland. The gap decreased between 1997 and 2007. After the economic crisis hit Scandinavia in 2007–2008 the gap has however been increasing. Our findings further suggest that NEET rates increase with age and that being in NEET is somewhat more common among women.

We further analyse the determinants of NEET and finally we examine what youths that are in neither employment, education nor training do. In this analysis, we use individual level administrative data from Swedish records with detailed information on both youth and parental characteristics. We find that NEET rates decreases with parental education and with years in Sweden. Even when controlling for youth background characteristics, first- and second-generation immigrant youths have significantly higher probability of being in NEET compared to native youths. The NEET gap is largest among first generation immigrant youths.

The Swedish data set has allowed us to we shed some light on what youths who are neither in education, employment or training actually do. We find that most youths in NEET are in labor force but are unemployed. Many youths are further on sick leave or disability insurance. A significant amount of youths is further not found in any administrative registers. Among first and second-generation immigrant youths with parents born in Western countries almost 2/3 are not found in any registers. One explanation could be unregistered emigration among those two groups. They may have moved from Sweden but not reported it to the Tax Authority. This means that the estimated labor market situation for these two groups could be biased.

The paper is structured as follows. Section 2 provides a brief overview of the Scandinavian social protection systems. First, the Scandinavian immigration history is described, and then the section compares income maintenance, social services and the social regulations of the four countries. Section 3 describes our data and sample restrictions. Section 4 presents the results, and Section 5 concludes. An online appendix provides additional results.

2. Policy context: reforms in Scandinavian social protection systems

The immigration to the Scandinavian countries has been very diverse. Moreover, the Scandinavian countries have responded differently to immigration. *Sweden* was a country with large labour migration from the 1940s after the end of WW2 up to the early 1970s. From the 1970s, the refugee migration has been larger than the labour migration. Until recently, Sweden has been more positive to immigration and had a more liberal immigration policy than the other Scandinavian countries. *Denmark* started receiving labour immigrants in the 1960s. Later the refugee migration became larger. Today, Denmark has one of the most restrictive immigration policies in Europe. *Norway* started to receive labour immigrants in the late 1960s and still do so. In later decades, refugee migration has become more important. Norway has an intermediary position in terms of immigration policy. *Finland* has been the exception with net emigration until the 1980s and since then a moderate but increasing immigration of refugees and labour migrants (Brochmann and Hagelund 2010, Kivisto and Wahlbeck 2013).

Yet, we may ask if we find a common pattern or approach to the inclusion of first and second-generation migrants in Scandinavian social protection policy. The principle that everybody with the same needs should be treated in the same way and receive the same type and amount of services, whether in cash or in kind, has been a central pillar in the construction of the Scandinavian welfare model. Scandinavian governments have aimed to minimise the overall role of means-testing and fragmented insurance provisions by establishing universal access services and by extending social protection to the entire population (Anttonen et al. 2012). In the next paragraphs, we give a brief description of the main patterns in Scandinavian social protection policy affecting the labour market inclusion of first and second-generation migrants.

A. Income maintenance

Generally, each country's rules for achieving legal residence have been a main factor in limiting a person's basic entitlement to income maintenance during periods out of paid work. Hardly any provisions have been dependent on becoming naturalized and achieving a formal citizenship in a Scandinavian country. However, we find a number of differentiations of specific entitlements.

Entitlement to social insurance benefits has been conditional on a minimum duration of legal residence in the country and the amount of earnings and tax contributions made as an employee in the labour market. Young adults immigrating to the Scandinavian countries have not been entitled such benefits until they have a sufficient record of labour market participation and legal residence in the country. While newly arrived migrants with legal residence have generally been eligible for means-tested financial assistance, payments in some programmes may be lower than the regular social assistance payments. This has been the case with the Danish Start Help and Introduction Allowance (Liebig, 2007).

The distinction between rights-based social security benefits and means-tested social assistance implies a two-track system for income maintenance in the Scandinavian welfare states: Young adults have qualified for social insurance benefits if they have a previous record of labour market experience. Those with no or poor records of labour market participation have been deferred to means-tested social assistance. This has often been the case for newly arrived immigrants and young adults without a previous record of labour market experience and earnings (or contributions). The scope for local discretion in defining the benefit level has been greatest in Norway and most restricted in Denmark and Finland, with Sweden in an intermediate position (Kuivalainen & Nelson, 2012).

Since the 1990s, Scandinavian governments have adjusted their income maintenance systems on grounds of the changing demographic and economic conditions to strengthen the sustainability of social benefit systems. The Scandinavian countries have introduced stricter qualifying criteria and/or reduced the benefit levels to avoid disincentives in the income maintenance system and reinforced their orientation towards employment-promoting active measures – particularly in connection with young adults (Bonoli, 2010, Nelson, 2013).

B. Social services: education and active labour market policy measures

A prominent feature of Scandinavian social protection policy has attempts to avoid policy efforts targeted exclusively at immigrants or their native-born children. With the exception of Denmark (where some job-centres have started initiatives specially targeted at minority ethnic youth in the age 15–17 years old), we find no specific strategies for minority ethnic youth. Rather the general labour market inclusion policy and general youth policy are supposed to meet also the needs of minority ethnic youth. One argument has been that targeted measures would be stigmatizing. Yet, all countries have adopted measures for newly arrived immigrants; the underlying assumption has been that only if they are newly arrived they have special needs deriving from their immigration. The programmes and requirements differ between the countries. Several of the countries have emphasized language training for immigrants (Brochmann & Hagelund 2010).

Earlier studies of the role of educational systems for the labour market success of ethnic minority youth are of interest as Norway and in particular Denmark, have extensive apprenticeship systems, while Finland and Sweden have comprehensive educational systems. These studies find that the apprenticeship system allows for smooth transitions to the labour market for those who have gained access to an apprenticeship-training place. The drawback of the apprenticeship system is, however, that the obstacles faced by many ethnic minority youth at the point of labour market entry move upstream, to the point at which training slots in the apprenticeship system are allocated. This has partly to do with discrimination and partly with ethnic minority youth being less successful in school than other pupils (Brzinsky-Fay & Nikolai 2008, Crul 2007, Worbs 2003, Herzog-Punzenberger 2003, Helland & Støren 2006 and OECD 2008).

C. Social regulation

In the 1960s, the Scandinavian countries ratified international human rights conventions prohibiting discrimination on grounds of race, religion and ethnicity. While they adopted early non-discrimination provisions in their penal code and the constitution to prevent negative discrimination, the commitment was limited to ensure difference blindness and not accommodate that difference. While the EU Racial Equality Directive (2000/43/EC) does not explicitly mention the principle of reasonable accommodation, the directive allows for

positive action measures 'to prevent or compensate for disadvantages linked to racial or ethnic origin'.

Sweden adopted a law against ethnic discrimination in 1993 and later amended it in 1998 with a special law against discrimination in working life (Proposition 1997/98). Thus, Sweden anticipated the adoption of the Racial Equality Directive. The new Anti-Discrimination Act 2008 defined not only direct but also indirect discrimination as illegal. Borevi (2013:162) argues that the new provision provides a legal entitlement to wear religious clothing in the workplace. Under the new act employers are responsible for ensuring "that the working conditions are suitable for all employees regardless of sex, ethnicity, religion or other belief" (SFS 2008:567:3,4). In the aftermaths of the new statutory regulation several public workplaces, e.g. Swedish Police and Swedish Armed Forces, have changed their dress code policy accordingly (Borevi, ibid.). The new Anti-Discrimination Act also enlarged the population protected against discrimination in working life. In addition to employees and jobseekers, the antidiscrimination safeguards cover persons who make job enquiries and persons applying for or undergoing work training.

Inspired by Sweden, *Norway* first introduced legislation against discrimination on grounds of race, colour, national or ethnic origin in 1998 and adopted shadow legislation to the Race Equality Directive in 2005 (EC/48/2000). Since 2002, regulations request all Norwegian state enterprises to invite at least one job applicant with immigrant background for interview. Since 2007, all Norwegian state enterprises have been encouraged to adopt recruitment plans to ensure the inclusion of immigrants and children of immigrants. In 2008, Norway adopted a moderate quota for persons with two foreign-born parents. In 2008–2012 public employers could choose to hire applicants with a minority background even if the applicant was ranked behind the most qualified candidate (Orupabo et al., 2009, Government of Norway, 2011). From 2012, public employers *have* to choose the applicant with a non-Western background if the person has approximately the same qualifications.

Denmark transposed the Racial Equality Directive in 2003 but has been reluctant to provide the opportunity to favour employees with an immigrant background in employment and occupation in a transition period "and only in exceptional cases [made] juridical and political allowance for minority rights and cultural claims based on minority status" (Hedetoft, 2006:403).

Finland transposed the Race Equality Directive in 2004. Since the adoption of the Act on the Promotion of Integration of Immigrants 1386/2010 persons with an immigrant background can be favoured in recruitment when the candidate's qualifications otherwise are equal. Additionally public employers must develop an equality action plan, identifying measures to foster equality and prevent discrimination (Act on the Promotion of Integration of Immigrants 1386/2010, Finland).

Of the Scandinavian countries, Sweden has adopted the most and Denmark the fewest positive action measures to improve the employment prospects of minority ethnic youth. Generally, Denmark has had less employment protection than the other three countries. Whereas Sweden and Norway do not impose specific obligations on employers regarding the identification of barriers to equality, both countries mention in their administrative guidelines certain techniques that an employer *may* carry out so as to identify barriers to equality (Craig, 2013).

So far, there is little systematic and documented knowledge about what impact the these instruments of social regulation have had, if any, on the job prospects of minority ethnic youth. As first step toward such knowledge, this chapter analyses how the employment possibilities for minority ethnic youth have developed and how these developments differ between diverse categories of minority ethnic youth in four Scandinavian countries, to the extent that the data available have allowed us to make such analyses.

3. Data

Statistics Denmark, Statistics Finland, Statistics Norway and Statistics Sweden have collected our data. The statistic agencies in Denmark, Finland and Norway have provided us with compiled yearly national averages by gender, age and origin for the outcomes of interest in the period 1997–2010.

For Sweden, the data are instead at the individual level and originate from several longitudinal administrative registers maintained by Statistics Sweden. The Swedish data provide detailed information on the entire population aged 16–65 each year from 1997 to 2010. There is for instance information on a wide range of labour market, educational and demographic

characteristics. Because of the comprehensive individual data, we are able to make a more detailed analysis on the labour market situation for the different groups of youths in Sweden.

The data sets of the four countries differ somewhat regarding the time period covered, the demarcation of the youth age group and the definition of work and education. However, the differences are rather small. The emphasis in this chapter is a comparison by country of origin – natives with native-born parents and different groups of foreign born and their children.

Throughout, we use the NEET rate (Not in Employment, Education or Training) to measure the labour market situation of youths. Unemployment, as it is often used, is a problematic concept when applied to the labour market situation for young people (Statistics Sweden, 2013). Many young people are in education, meaning that a high unemployment rate among young people in the labour force may stand for a high unemployment rate among a few being in the labour force at that age, but a low unemployment rate if calculated among all those in the cohort. A related problem is that the measure is affected by labour force exits, which fluctuate with the economic cycle (Niknami & Schröder, 2014). Another problem is that one form of youth education, apprenticeship training, is classified as work (getting a wage) and other closely related forms of youth education as vocational school training is classified as education (and not being in labour force). There are still other problems related to youth unemployment because students who have found a job for the summer vacation and wait to start it until the end of the study term are counted as unemployed. Another problem is also that those who are studying full-time and look for a part-time job are classified as unemployed.

Belonging to the NEET group may mean many different things, as for example, being unemployed, studying or working abroad, or being unable to work due to illness or disability. We present the patterns of the NEET-rate over time among youths in each country and make a cross-country comparison. In all cases, we divide the youths into five groups: 1) native born with native-born parents, 2) native born with parents born in Western countries, 3) native born with parents born in non-Western countries, 4) born in a Western country, and 5) born in a non-Western country. For Sweden, we have continued with a more detailed description of the labour market situation of youths. We examine the importance of different background characteristics such as country of origin and parental educational background in explaining that young people become NEET. The data for Sweden allow us to study what youths in

Sweden do when they are neither in employment nor in education or training. We have also calculated the two individual components in the NEET rate – the proportion of in education and the employment rate – for each country in the entire period. These tables are available from the authors on request.

It should be noted that very few are native born with foreign-born parents in Finland (the Finnish immigration history is short) so the information for those two groups is based on fewer observations than for the other three groups in Finland and for the corresponding groups in the other three countries. We also show tables containing information for one year, 2010. The information is for the same five groups as the figures but for three age groups 15–18 (16–19; 18–19), 19–23 (20–24), and 24–28 (25–29) and for all, men and women. For Sweden, we continue with a regression analysis to examine the effects of belonging to different groups controlling for some characteristics.

4. Results

In this section, we present the NEET rates in the four countries. In all cases, we use the division into five groups: 1) native born with native-born parents, 2) native born with parents born in Western countries, 3) native born with parents born in non-Western countries, 4) born in a Western country, and 5) born in a non-Western country. We present the development over time for each country as well as a detailed description of the NEET rates in 2010. We then compare the NEET rates in the four countries and examine what youth background characteristics are important in explaining NEET. We further examine what youths in NEET do and finally we show the robustness of our main results by presenting employment and schooling rates in the four countries.

A. NEET rates

Denmark

Figure 1 shows the development of the NEET rates in Denmark during the period 1997-2010 for the five groups of youths. As expected native born with native-born parents are more often either in education or employment and those who were born in other countries have the lowest share in either education or employment. The situation of the native born with foreign-born parents is somewhere in between. Maybe a bit surprising for some participants in the public

debate is that the situation is more or less the same for those born in Western countries and those born in non-Western countries, and that for native born with foreign born parents the situation is about the same irrespective of if the parents were born in Western or non-Western countries. The Figure further show that the NEET rates has been decreasing over years until the economic crisis in 2008, where the NEET rates instead started to increase. The reduction in NEET between 1997 and 2007 was most pronounced among youths born in a non-Western country.

Table 1 compares the situation for the same five groups in 2010 with information for men and women and three different age groups. The NEET rates are lowest among youths with nativeborn parents and highest among youths born in a Western country. The pattern is similar for men and women with exception for youths born outside Denmark. For these youths there exist a gender gap in NEET. Among youths aged 24-28 born in a non-Western country the gender gap in NEET is 46 per cent (0.159/0.349) and more than 50 per cent of women are in NEET. With exception for native youths, the situation differ much between different age groups. The NEET rate is higher for the older age groups and the differences are largest among first generation immigrant youths. This patterns is potentially explained by teenagers being in school to a larger extent

Finland

Figure 2 shows the development of the NEET rates in Finland during the period 1997-2010 for the five groups of youths. As expected native born with native born parents are in most years more often either in education or employment and those who were born in other countries have the lowest shares in either education or employment (but their NEET rates decrease over time), and the native born with foreign born parents are found somewhere in between. Note that differences between the three groups of native born are small. It should be underlined that there in Finland are only a few native born with foreign-born parents. A bit surprising is that the situation is more or less the same for those born in Western countries and those born in non-Western countries in the end of the period studied. The general impression from research is that those born in non-Western have more difficulties in establishing themselves in the labour market.

Table 2 shows the situation for the same five groups in 2010 with information separately for men and women and for three different age groups. The pattern differs between men and women. For the four groups besides native born with native-born parents the situation differs much between different age groups (missing value for one group). The NEET rate is higher for the older age groups. Note that the NEET rate is highest for women aged 25–29 years born in a non-Western country; almost 50 per cent.

Norway

Figure 3 shows the development in Norway for the five groups of young people. As expected native born with native born parents are more often in either education or employment and those who were born in other countries have the lowest share in either education or employment (highest NEET rates), and the native born with foreign born parents have NEET rates somewhere in between. Note that the differences between the three groups of native born are rather small. The NEET rate is lower for those born in Western countries than for those born in non-Western countries. The difference has increased over time. For the native born the situation is more or less the same irrespective of if they were born in a Western or in a non-Western country in the end of the period studied.

Table 3 compares the situation for the same five groups in 2010 with information for men and women and for three different age groups. The pattern is similar for men and women. For the four groups besides native born with native-born parents the situation differs much between different age groups. The NEET rate is higher for the older age groups than for teenagers, but less so for the native born with native-born parents and for those born in Western countries. Note that the NEET rate is highest for women aged 25–29 years who were born in a non-Western country; almost 45 per cent.

Sweden

Figure 4 shows the development in Sweden for the five groups of young people. As expected native born with native-born parents are more often in either education or employment than the other four groups. The differences between the five groups are smallest in Sweden. One explanation could be that those who are foreign born have a longer duration of residence in Sweden than what is the case for the foreign born in the other three Scandinavian countries. (As we have individual data for Sweden only, the importance of duration of residence or age at immigration cannot be analysed for the other countries). A bit surprising is that the NEET

rate is highest for native born with parents born in Western countries, higher than for all the other four groups (and higher than those born in a Western country). One explanation may be that the composition of the group has changed over time, another may be unregistered emigration.

Table 4 compares the situation for the same five groups in 2010 with information for men and women and three different age groups. The pattern is more or less the same for men and women. The NEET rate is very low for the teenagers, especially for native born with native-born parents. They are most likely to a very high extent in school. For all groups the situation differs much between different age groups. The NEET rate is higher for the older age groups. Note that the NEET rate is highest for native born women aged 25–29 years with parents who were born in a Western country; almost 30 per cent.

A comparison of the NEET rates in the four countries

When comparing the situation for the four groups of young people who are not native born and have native-born parents with those who are native born with native-born parents, we find both similarities and dissimilarities. The NEET rate is for example lower for the foreign born in Sweden than in the three other countries. One explanation could be that the foreign born has a longer period of stay in Sweden than in the other countries. When we compare those who are native born with foreign-born parents we find that the situation is more or less the same in Denmark, Finland and Norway irrespective if the parents were born in Western or in non-Western countries. However, in Sweden there is a difference: those with parents born in Western countries have a higher NEET rate than those with parents born in non-Western countries.

Another observation is that the NEET rate is very high for women born in a non-Western country aged 24–28 (or 25–29) in Denmark, Finland and Norway, but not in Sweden. The differences are quite large. Note also that the NEET-rate for native-born teenagers with native-born parents is very low in Sweden, much lower than in other countries.

To summarize: Denmark, Finland and Norway have similar patterns of the NEET rates for the five groups of foreign and native born. The Swedish situation differs however. The NEET rates are considerable lower in Sweden.

B. Youth background characteristics and the probability of NEET

In this section, we explore what youth background characteristics are important in explaining NEET. In particular, we investigate the importance of parental education, of living in an urban area and years since immigration. The exercise is done for youths in Sweden, since we only have individual level data for this group of youths. In Table 5, we show the estimation results of the odds ratio of NEET being in education or employment in 2010. The results show that female youths have a significantly lower probability of being in NEET. The probability of being in NEET further increases with age. As expected, the odds ratio of being in NEET decreases with parental education. The odds ratio of becoming a NEET is lower if living in an urban area compared to a rural area. Even when controlling for youth background characteristics, youths of immigrants have significantly higher odds ratios of NEET compared to youths of natives. The probability of NEET is highest among first- and second-generation immigrant youths with parents born in Western countries.

C. What do youths in NEET do?

In this section we shed some light on is what youths who are in neither education, employment nor training do. The very compressive data enables us to explore this important question. We divide the NEET group into six different categories: unemployment, other education, sick leave or disability pension, parental leave a mixture and unknown. An individual is defined as being unemployed if the individual is registered at the employment office in 2010. Other education includes military service, compulsory education, labour market education and Swedish language education. An individual is categorized as being on sick leave or early retirement if the individual gets sick leave insurance or pension. The individual is further categorized as being on parental leave if receiving parental benefits. The results are given in Table 6. Column 1 reports the results for youths of native born parents, column 2 reports the results for second generation immigrant youths with parents born in a Western country, column 3 reports the results for second generation immigrant youths with parents born in non-Western countries, column 4 show the results for first generation immigrant youths born in a Western country and column 5 reports the findings for first generation immigrant youths born in a non-Western country. Unemployment is an important category for all five groups. "Unknown" is a much more important category for those who were born in a Western country and those who are native born but have parents who were born in Western countries than for the other three groups. One explanation could be unregistered emigration among those two groups. They may have moved from Sweden but not reported it to the Tax Authority. It means that the NEET rate for these two groups could be overestimated. The results further show that almost one fourth of youths born in a non-Western country are on disability or sick leave insurance.

D. Employment

In following section, we give some information on the employment rates of youths in the Scandinavian countries.

Denmark

The employment of youths in Denmark in 2010 is given in Table A1. As mentioned, it is country with a large share of the young people in apprenticeship training. The apprentices are as earlier mentioned being classified as employed in the statistics. It means that the employment rate is high for those aged 15–18 and 19–23 in Denmark compared to the corresponding age groups in the other Nordic countries. The employment rate is not very much higher for those who are 24–28 compared to those who are younger in Denmark and not higher for those aged 24–28 than in the other Nordic countries.

Those with a foreign background have lower employment rates than the native born with native-born parents. This is especially so for those who are not born in Denmark. For the younger ones it is probably explained by fewer being apprentices and by the older ones by that they have more difficulties in getting a job.

Finland

Finland has a vocational school system. It means that few of the teenagers are counted as employed. The employment rate of teenagers is low in Finland compared to that in Denmark. If we however compare those who are of an age when most have left the educational system, we get more or less the same share in employment as in Denmark among the native born, see Table A2. Note that the employment rate for those in that age is more or less the same for men

and women. The foreign-born have lower employment rates in most age and gender groups. Remember that there are only a few who are native born with parents born outside Finland.

Norway

The employment of youths in Norway in 2010 is given in Table A3. Norway has as Denmark an extensive apprenticeship system, but the first two of the four years are school based in Norway. It may explain why Norway has a slightly lower employment rate among teenagers than Denmark but a higher rate than Finland. The employment rate is for all the three age groups and for both men and women higher for the native born with native-born parents than for the four groups who have a foreign background. The employment rate in the oldest of the three age groups is especially low among women who are born in a non-Western country.

Sweden

In Sweden, almost all young people continue to secondary school. It means that few teenagers are in the labour market. Some teenagers have however a part-time job besides their studies (classified as employed) or are looking for a part-time job (classified as unemployed). In Table A4, it is revealed that the employment rates are low for all teenagers irrespective of origin, for both natives and those with foreign background. The differences are however larger between the older age groups: the employment rates are lower for those with a foreign background. It indicates that those groups have more difficulties to establish themselves in the labour market than the native born with native-born parents does.

Among those who are in their late twenties in Sweden, the employment rates are high compared to those in Denmark and Finland and are more or less the same as in Norway.

Youths in employment, a comparison of Denmark and Sweden

As underlined, there are important differences between how different forms of vocational education are classified – as education (vocational school) or as employment (apprenticeship). It also means that the classification system leads to large differences in registered employment. Denmark with a large share of the education in apprenticeship training and Sweden with the training mainly in school are here the outliers among the four Nordic

countries studied. We will show it with the help of two figures showing the development of the teenage employment shares for the two countries between 1997 and 2010.

In Figure A1, the development for Denmark is shown. The employment share is very high even if it is declining somewhat over time. It is highest for the native born with native-born parents (having better access to apprenticeship placement), slightly lower for those born in Denmark with foreign-born parents and lowest for those who are foreign born.

As shown in Figure A2, the share of teenagers in employment is in contrast low in Sweden – most of them in that age group are in school. Quite a few of them are however working besides being in school; they often have short part time jobs (e.g. working weekends). The native born with native-born parents have slightly higher employment rates than those with a foreign background. One explanation could be that those with foreign background have more difficulties in getting part-time jobs besides the schoolwork. The employment rate is more or less the same for all groups with a foreign background.

E. Education

Here we present information on the share in education for young people in the countries covered in our study. Remember that those in apprentice training are not classified as being in education but as being employed in Denmark and Norway leading to large differences between countries especially for the teenagers.

Denmark

In Table A5, we can see that only 37 per cent of the native-born teenagers with native-born parents are classified as being in education in spite of the fact that the group we have information on in Denmark is slightly younger than the corresponding groups in the other three countries. The explanation is that many are employed by being apprentices (and receiving pay for that). The pattern of the share in education is more or less the same for the five groups with different origin. The share is slightly higher among teenagers for three of the four groups with foreign background than for native born with native-born parents. An

explanation may be that they have more difficulties in getting apprenticeship places and they more often choose theoretical study lines in secondary education.

Finland

The share of youths in education in Finland in 2010 is given in Table A6. The share in education is higher in Finland than in Denmark among teenagers. The difference is explained by the differences between the two educational systems. For those in their twenties the pattern and the level is more or less the same in the two countries. For those with foreign background the pattern and level is more or less the same as for those with native background with a few exceptions. Remember that there are only few native born with foreign-born parents in Finland, which may explain that the results are a bit surprising for some of the groups.

Norway

The share of youths in education in Norway in 2010 is given in Table A7. Norway has a partly school-based, partly workplace based apprenticeship system. It explains that the share of the teenagers classified as being in education is higher than in Denmark but a bit lower than in Finland. Note that fewer aged 25–29 years are in education in Norway compared to those in the other three countries. The share being in education is more or less the same irrespective of native or foreign origin. An exception is that the native born with foreign-born parents more often are in education than the natives with native-born parents are.

Sweden

Sweden is an outlier regarding the share being in education compared to the other three countries. The explanation is that the secondary education is school-based but also that many continue to higher education. The share of the teenagers being in education is much higher in Sweden than in the other three countries and the shares are also higher in the other age groups, see Table A8. The pattern is mainly the same for the five groups with different origin. The main exception is that native born with parents from non-Western countries to a higher extent than the four other groups of teenagers are in education. Those aged 20–24 with foreign background are to a higher extent in education than native born with native-born parents.

Youths in education, a comparison of Denmark and Sweden

We will also here make a comparison between the two countries with lowest and highest rates of young people classified as in education, Denmark and Sweden, and concentrate our attention to the teenagers, the group for which the difference is largest.

From Figure A3, we can see the education rate is stable over time in Denmark and that it does not differ much according to origin. Denmark is a typical apprenticeship country with many teenagers (and some older ones also) in apprenticeship training. They get a wage and are classified as employed. Figure A4 reports results from Sweden and shows a quite different situation. The education rate is almost twice as high as in Denmark. The differences are rather small between natives with native-born parents and those with foreign background. The rate is slightly increasing over time.

5 Conclusion

In this paper, we study the labour market situation of first and second-generation immigrants in the Scandinavian countries. The Scandinavian countries are similar in many respects but there are important differences regarding the youth education system, especially regarding the secondary education level. Due to that, different forms of education are classified in different ways, it is not appropriate to compare unemployment, education, and employment rates for teenagers and to some extent for those who are slightly older. It is much better to compare the NEET rates.

We find higher NEET rates among the children of immigrants compared to the children of natives in all countries. For those who are in the late twenties we find that the NEET rates are lowest in Norway and Sweden, two countries with quite different educational systems. The NEET rate is high in Denmark – the main apprenticeship country.

We find some striking differences between groups of different origin, indicating that the employment problems are more pronounced for some groups with foreign background.

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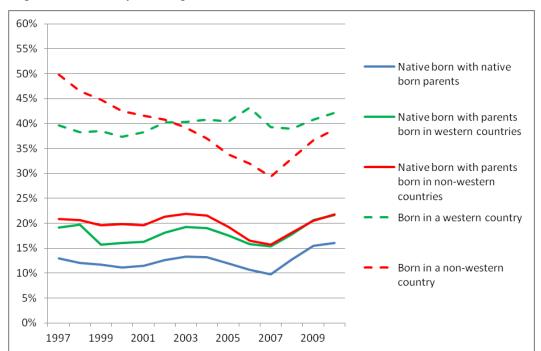
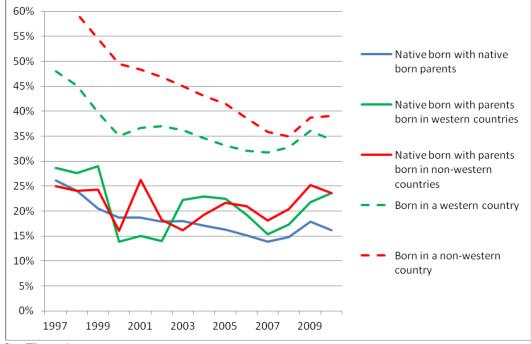


Figure 1 Share of youths aged 15–28 in NEET in Denmark, 1997–2010. Per cent.

Note: An individual is defined as being in education if (s)he is registered at compulsory school, upper secondary school or university in October given year. An individual is defined as being employed if (s)he is registered as employed in November given year. An individual is considered to be born in a Western country if (s)he was born in: Australia, New Zealand, North America and Europe (only EU/EEA countries except the Nordic countries). An individual is considered to be born in a non-Western country if (s)he was born in Africa, Asia (including Turkey), Latin America, Oceania (except Australia and New Zealand) and Europe (except EU/EEA countries).

Figure 2 Share of youths aged 18-29 in NEET in Finland, 1997–2010. Per cent.



Note: See Figure 1.

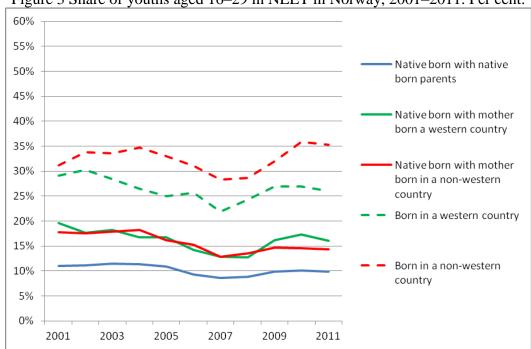
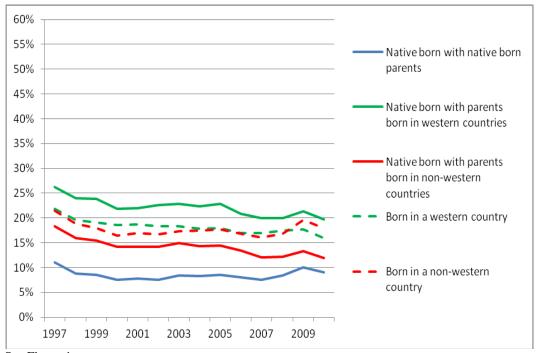


Figure 3 Share of youths aged 16–29 in NEET in Norway, 2001–2011. Per cent.

Note: See Figure 1. If the country of origin of the mother is unknown, we have used the country of origin of the father.

Figure 4 Share of youths aged 16–29 in NEET in Sweden, 1997–2010. Per cent.



Note: See Figure 1.

Table 1 Share of youths in NEET in Denmark in 2010. Per cent.

	All	Men	Women
Native born with both parents native			
born			
Age 15 – 18	12.4	12.9	12.0
Age 19 – 23	17.8	18.6	17.0
Age 24 – 28	17.5	16.2	18.9
Native born with both parents born in	Western countr	ries (except the N	ordic countries)
Age 15 – 18	17.3	18.3	16.3
Age 19 – 23	22.8	24.8	20.6
Age 24 – 28	27.5	31.3	23.8
Native born with both parents born in	non-Western co	ountries	
Age 15 – 18	16.4	18.4	14.4
Age 19 – 23	25.0	27.2	22.6
Age 24 – 28	30.5	29.4	31.7
Born in a Western country (except the	Nordic countri	es)	
Age 15 – 18	27.8	26.2	29.4
Age 19 – 23	49.5	47.0	51.9
Age 24 – 28	40.0	37.3	42.9
Born in a non-Western country			
Age 15 – 18	24.4	24.8	24.0
Age 19 – 23	38.7	4.9	42.6
Age 24 – 28	43.9	34.9	50.8

Note: See Figure 1.

Table 2 Share of youths in NEET in Finland in 2010. Per cent.

	All	Men	Women
Native born with both parents native			
born			
Age 18 – 19	15.4	18.9	11.7
Age 20 – 24	17.4	20.6	14.1
Age 25 – 29	15.0	14.4	15.6
Native born with both parents born in We	estern countries (except the Nord	ic countries)
Age 18 – 19	20.5	28.3	9.4
Age 20 – 24	26.7	35.0	20.0
Age 25 – 29	28.6	21.4	42.9
Native born with both parents born in not	n-Western count	ries	
Age 18 – 19	22.2	22.2	18.9
Age 20 – 24	26.7	25.0	20.7
Age 25 – 29	22.4		20.6
Born in a Western country (except the No	rdic countries)		
Age 18 – 19	29.0	29.3	27.6
Age 20 – 24	36.6	34.8	36.5
Age 25 – 29	33.5	27.7	36.2
Born in a non-Western country			
Age 18 – 19	39.2	42.4	35.5
Age 20 – 24	37.5	34.8	40.5
Age 25 –29	40.2	33.0	48.2

Note: See figure 1.

Table 3 Share of youths in NEET in Norway in 2010. Per cent.

	All	Men	Women
Native born with both parents native			
born			
Age 16 – 19	6.1	6.8	5.4
Age 20 – 24	11.7	12.5	10.8
Age 25 – 29	12.2	11.8	12.7
Native born with mother born in Western	n countries(exce	ept the Nordic o	countries)*
Age 16 – 19	15.8	14.6	17.0
Age 20 – 24	16.5	17.1	15.9
Age 25 – 29	20.2	16.3	24.8
Native born with mother born in non-We	estern countries	*	
Age 16 – 19	9.7	10.4	9.0
Age 20 – 24	17.2	19.4	15.0
Age 25 – 29	21.5	19.1	24.1
Born in a Western country (except the N	ordic countries,)	
Age 16 – 19	24.1	23.6	27.7
Age 20 – 24	32.9	29.6	36.3
Age 25 – 29	24.5	21.5	28.2
Born in a non-Western country			
Age 16 – 19	27.8	31.9	22.8
Age 20 – 24	32.6	27.7	36.9
Age 25 – 29	35.5	27.3	43.5

Note: See Figure 1. * = in cases where the country of origin of the mother is unknown, the country of the origin of the father is used.

Table 4 Share of youths in NEET in Sweden in 2010. Per cent.

	All	Men	Women
Native born with both parents native			
born			
Age 16 – 19	3.6	3.9	2.7
Age 20 – 24	12.4	13.4	11.4
Age 25 – 29	10.4	10.5	10.3
Native born with both parents born in W	estern countries	s(except the No	rdic countries)
Age 16 – 19	8.0	8.2	7.8
Age 20 – 24	18.5	20.5	16.5
Age 25 – 29	25.9	23.4	28.6
Native born with both parents born in no	n-Western cour	ntries	
Age 16 – 19	6.0	6.9	5.1
Age 20 – 24	16.2	18.9	13.5
Age 25 – 29	18.7	18.3	19.1
Born in a Western country (except the No	ordic countries)		
Age 16 – 19	9.8	9.4	10.3
Age 20 – 24	19.1	19.6	18.5
Age 25 – 29	22.6	22.6	22.6
Born in a non-Western country			
Age 16 – 19	12.0	12.0	12.0
Age 20 – 24	18.3	20.4	15.9
Age 25 – 29	21.9	22.4	21.2

Note: See Figure 1

Table 5 Youth background characteristics and the probability of NEET in 2010

Background characteristics	Odds ratio
Female	.86*
Age 16–19 (ref)	
Age 20–24	3.59*
Age 25–29	3.06*
Native born with both parents native born reference category	
(ref)	
Native born with both parents born in Western countries	1.81*
Native born with both parents born in non-Western countries	1.35*
Born in a Western country	1.82*
Born in a non-Western country	1.59*
Education mother	
Compulsory school mother (ref)	
Upper secondary school mother	.69*
University mother	.50*
Unknown education mother	1.24*
Education father	
Compulsory school father (ref)	
Upper secondary school father	.86*
University father	.66*
Unknown education father	1.17*
Living in an urban area	.84*
Migrated to Sweden 2005 or later	2.20*
Number of observations	1,351,618

Note: Estimates from a logit model. The dependent variable is set to one if the individual is not in education or employment and zero otherwise. *= statistically significant at 1 %. All numbers are rounded to two decimals. See Figure 1 for the division according to origin.

Table 6 Youths in NEET in Sweden in 2010. Per cent.

	Native born with both parents native born	Native born with both parents born in Western countries	Native born with both parents born in non- Western countries	Born in a Western country	Born in a non-Western country
Unemployed	39.0	23.9	35.3	19.0	38.7
Other education	3.2	1.3	6,0	9.2	9.1
Sick leave, disability pension	12.8	7.3	8.7	5.5	24.3
Parental leave	3.5	2.3	3.0	2.1	4.2
Mixture	10.5	3.6	7.2	4.3	11.9
Unknown	31.1	61.6	39.9	59.8	29.9
Number of observations	106,005	524	8,739	898	15,706

Note: All numbers are rounded to one decimal. See Figure 1 for the division according to origin. An individual is defined as 1) being unemployed if (s)he is registered at the employment office in 2010; 2) being in other education if (s)he is in military service/education, compulsory education, labour market education, or is taking a Swedish language course in 2010; 3) sick leave or early retirement if (s)he is getting income from sick leave insurance or pension; 4) Parental leave if (s) is getting parental benefits in 2010; 5) unknown if (s)he is not found in 1)–4); 6) A mixture if (s)he is registered in more than one of 1)–5)

Appendix: Additional Results

Table A1 Share of youths in employment in Denmark in 2010. Per cent.

	All	Men	Women
Native born with both parents no	ıtive		
born			
Age 15 –18	50.8	47.8	54.0
Age 19 – 23	66.1	65.2	67.0
Age 24 – 28	74.3	76.3	72.4
Native born with both parents bo	orn in Western countr	ies (except the N	ordic countries)
Age 15 – 18	47.9	42.2	53.8
Age 19 – 23	59.8	57.8	62.1
Age 24 – 28	66.1	63.5	68.7
Native born with both parents bo	orn in non-Western co	ountries	
Age 15 – 18	43.0	40.5	45.6
Age 19 – 23	54.9	55.1	54.8
Age 24 – 28	62.0	64.0	60.0
Born in a Western country (except	pt the Nordic countrie	es)	
Age 15 – 18	31.4	30.1	32.7
Age 19 – 23	36.3	38.6	34.2
Age 24 – 28	54.1	57.2	50.6
Born in a non-Western country			
Age 15 – 18	33.3	32.5	34.2
Age 19 – 23	46.3	50.2	42.4
Age 24 – 28	49.8	58.6	42.3

Note: See Figure 1.

Table A2 Share of youths in employment in Finland in 2010. Per cent.

	All	Men	Women
Native born with both parents native			
born			
Age 18 – 19	32.2	26.0	38.7
Age 20 – 24	56.5	53.1	60.2
Age 25 – 29	74.7	75.5	73.8
Native born with both parents born in	Western count	ries (except the N	ordic countries)
Age 18 – 19	37.2	32.6	43.8
Age 20 – 24	42.2	35.1	48.0
Age 25 – 29	57.1	78.6	14.3
Native born with both parents born in r	non-Western c	ountries	
Age 18 – 19	26.2	21.5	32.0
Age 20 – 24	55.5	49.6	62.1
Age 25 – 29	73.1	69.7	76.5
Born in a Western country (except the	Nordic countri	es)	
Age 18 – 19	29.1	25.4	32.6
Age 20 – 24	47.7	48.1	47.3
Age 25 – 29	58.3	61.4	54.7
Born in a non-Western country			
Age 18 – 19	19.8	17.1	22.8
Age 20 – 24	41.8	44.8	38.5
Age 25 – 29	50.0	57.8	41.4

Note: See Figure 1.

Table A3 Share of youths in employment in Norway in 2010. Per cent.

	All	Men	Women
Native born with both parents nativ	ve born		
Age 16 – 19	47.1	44.8	49.6
Age 20 – 24	71.7	71.8	71.5
Age 25 – 29	82,0	82.9	81.0
Native born with mother born in W	<i>'</i>		
Age 16 – 19	33.7	27.8	39.6
Age 20 – 24	58.3	55.6	61.1
Age 25 – 29	74.3	78.1	69.9
Native born with mother born in no	on-Western countrie.		
Age 16 – 19	34.3	33.3	35.4
Age 20 – 24	64.8	62.7	67,0
Age 25 – 29	72.2	74.6	69.6
Born in a Western country (except	the Nordic countries		
Age 16 – 19	29.7	29,0	30.3
Age 20 – 24	57.3	61.2	53.2
Age 25 – 29	73.4	77.1	68.8
Born in a non-Western country	,	,,,,	
Age 16 – 19	28.1	25.6	31.2
Age 20 – 24	51.7	56.0	48.0
Age 25 – 29	57.2	66.0	50.3

Note: See Figure 1. * = in cases where the country of origin of the mother is unknown, the country of the origin of the father is used.

Table A4 Share of youths in employment in Sweden in 2010. Per cent.

	All	Men	Women
Native born with both parents native	e		
born			
Age 16 – 19	20.4	19.1	21.7
Age 20 – 24	62.2	62.7	61.7
Age 25 – 29	78.3	79.4	77.0
Native born with both parents born	in Western countr	ies(except the No	ordic countries)
Age 16 – 19	18.5	16.1	20.9
Age 20 – 24	47.4	48.6	46.2
Age 25 – 29	63.4	65.7	60.9
Native born with both parents born	in non-Western co	puntries	
Age 16 – 19	11.7	10.5	12.9
Age 20 – 24	46.6	46.6	46.6
Age 25 – 29	68.3	69.6	66.8
Born in a Western country (except t	he Nordic countrie	es)	
Age 16 – 19	10.1	8.5	11.9
Age 20 – 24	37.7	37.1	38.4
Age 25 – 29	60.6	62.3	58.7
Born in a non-Western country			
Age 16 – 19	11.9	11.5	12.3
Age 20 – 24	44.0	44.9	43.0
Age 25 – 29	63.6	65.1	61.9

Note: See Figure 1.

Table A5 Share of youths in education in Denmark in 2010. Per cent.

	All	Men	Women
Native born with both parents nativ	e		
born			
Age 15 – 18	36.8	39.4	34.0
Age 19 – 23	16.1	16.2	16.0
Age 24 –28	8.1	7.5	8.8
Native born with both parents born			
Age 15 – 18	34.8	39.4	29.9
Age 19 – 23	17.4	17.5	17.2
Age 24 – 28	6.4	5.2	7.5
Native born with both parents born			
Age 15 – 18	40.6	41.1	40.0
Age 19 – 23	20.1	17.7	22.6
Age 24 – 28	7.5	6.6	8.3
Born in a Western country (except t	he Nordic countrie		
Age 15 – 18	40.8	43.6	37.9
Age 19 – 23	14.2	14.4	14.0
Age 24 – 28	5.9	5.4	6.5
Born in a non-Western country			
Age 15 – 18	42.3	42.7	41.8
Age 19 – 23	15.0	14.9	15.1
Age 24 – 28	6.3	5.6	6.9

Note: An individual is defined as being in education if (s)he is registered at compulsory school, upper secondary school or university in October 2010 and is not employed in November 2010. See Figure 1 for the division according to origin.

Table A6 Share of youths in education in Finland in 2010. Per cent.

	All	Men	Women
Native born with both parents nativ	ve		
born			
Age 18 – 19	49.6	50.4	48.7
Age 20 –24	24.4	24.3	24.5
Age 25 – 29	9.8	9.7	10.0
Native born with both parents born			
Age 18 – 19	41.0	37.0	46.9
Age 20 – 24	26.7	25.0	28.0
Age 25 – 29	14.3	0.0	42.9
Native born with both parents born	· -		.2.5
Age 18 – 19	51.2	53.0	49.1
Age 20 – 24	16.6	16.0	17.2
Age 25 – 29	4.5	6.1	2.9
Born in a Western country (except			,
Age 18 – 19	40.6	42.2	39.1
Age 20 – 24	14.9	14.6	15.3
Age 25 – 29	7.8	7.1	8.6
Born in a non-Western country	, , ,		
Age 18 – 19	40.5	39.8	41.3
Age 20 – 24	19.9	19.7	20.2
Age 25 – 29	9.5	9.0	10.0

Note: An individual is defined as being in education if (s)he is registered at compulsory school, upper secondary school or university in December 2010 and is not employed in December 2010. See Figure 1 for the division according to origin.

Table A7 Share of youths in education in Norway in 2010. Per cent.

	All	Men	Women
Native born with both parents native			
born			
Age 16 – 19	46.8	48.4	45.0
Age 20 – 24	16.6	15.6	17.7
Age 25 – 29	5.8	5.3	6.4
Native born with mother born in West			
Age 16 – 19	56.0	57.5	43.4
Age 20 – 24	18.0	27.2	23.0
Age 25 – 29	6.3	5.6	5.2
Native born with mother born in non-			
Age 16 – 19	50.5	56.3	55.6
Age 20 – 24	25.2	17.9	18.1
Age 25 – 29	5.4	6.3	6.3
Born in a Western country (except the			
Age 16 – 19	46.2	47.4	45.0
Age 20 – 24	9.8	9.1	10.5
Age 25 – 29	2.1	1.5	2.9
Born in a non-Western country			
Age 16 – 19	44.1	42.5	46.0
Age 20 – 24	15.7	16.3	15.1
Age 25 – 29	7.0	6.7	7.2

Note: An individual is defined as being in education if (s)he is registered at upper secondary school or university in October 2010 and is not employed in November 2010. *= in cases where the country of origin of the mother is unknown, the country of origin of the father is used. See Figure 1 for the division according to origin.

Table A8 Share of youths in education in Sweden in 2010. Per cent.

	All	Men	Women
Native born with both parents native			
born			
Age 16 –19	70.4	71.1	69.7
Age 20 – 24	23.0	21.4	24.6
Age 25 – 29	10.8	9.6	12.0
Native born with both parents born in V	Western countr	ies(except the No	ordic countries)
Age 16 – 19	65.4	68.1	62.8
Age 20 – 24	31.7	28.0	35.5
Age 25 – 29	10.2	10.1	10.3
Native born with both parents born in n	on-Western co	ountries	
Age 16 – 19	77.7	77.7	77.6
Age 20 – 24	33.2	30.3	36.4
Age 25 – 29	12.1	11.2	13.0
Born in a Western country (except the N	Nordic countrie	es)	
Age 16 – 19	73.7	76.2	70.9
Age 20 – 24	39.7	39.8	39.4
Age 25 – 29	15.8	13.9	17.9
Born in a non-Western country			
Age 16 – 19	70.9	70.9	71.0
Age 20 – 24	33.1	29.8	36.7
Age 25 – 29	13.3	11.3	15.5

Note: An individual is defined as being in education if (s)he is registered at upper secondary school or adult education during fall 2010, or at university during spring and/or fall 2010 and is not employed in November 2010. See Figure 1 for the division according to origin.

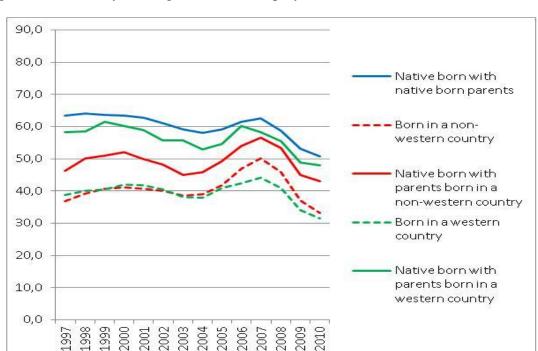


Figure A1 Share of youths aged 15–18 in employment in Denmark, 1997–2010. Per cent.

Note: See Figure 1.

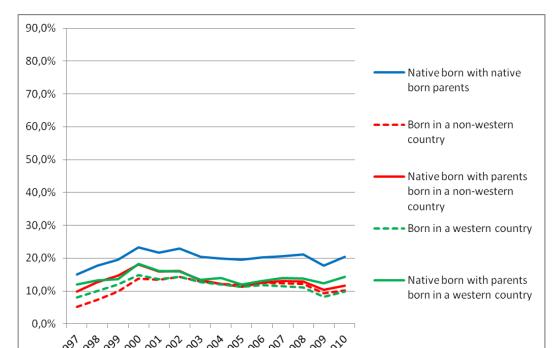


Figure A2 Share of youths aged 16–19 in employment in Sweden 1997–2010. Per cent.

Note: See Figure 1.

90,0 80,0 Native born with native born parents 70,0 60,0 Born in a non-western country 50,0 Native born with parents born in a non-western 40,0 country 30,0 Born in a western country 20,0 Native born with parents 10,0 born in a western country 0,0

Figure A3 Share of youths aged 15–18 who are studying in Denmark, 1997–2010. Per cent.

Note: An individual is defined as being in education if (s)he is registered at compulsory school, upper secondary school or university in October and is not employed in November. See Figure 1 for the division according to origin.

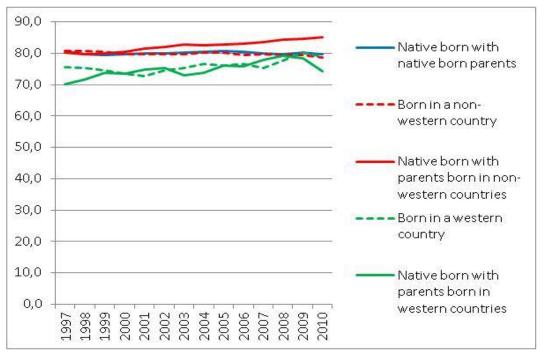


Figure A4 Share of youths aged 16–19 who study in Sweden 1997–2010. Per cent.

Note: An individual is defined as being in education if (s)he is registered at upper secondary school or adult education during fall 2010, or at university during spring and/or fall and is not employed in November. See Figure 1 for the division according to origin.