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*Research Article*

**Sweden:**  
**Combining childbearing and gender equality**

**Livia Sz. Oláh**

**Eva M. Bernhardt**

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## **Sweden: Combining childbearing and gender equality**

**Livia Sz. Oláh<sup>1</sup>**

**Eva M. Bernhardt<sup>2</sup>**

### **Abstract**

Sweden is the forerunner of the Second Demographic Transition. Fertility trends have fluctuated greatly since the 1960s, and the 1990s showed both European-highest and lowest-ever-in-Sweden levels, while the cohort pattern has been relatively stable. Period fluctuations have been accompanied by a postponement of entering committed partnerships and parenthood as well as an increasing instability of family relationships. The awareness and the availability of effective contraceptives have been extensive since the mid-1970s, the year the liberal abortion law was introduced.

Post-modern values are dominant in this highly secularized society, but ideal family size is among the highest in the European Union, and childlessness has remained at a relatively low level. Ethnic diversification has increased over time, with about one-fifth of the population having a 'foreign background' in the early 2000s. The level of female labor-force participation is the highest in Europe (although mothers of pre-schoolers often work part-time), and young women are just as highly educated as men. Family policies, based on the principle of equality across social groups and gender, seem to play an important role in keeping fertility relatively high. In combination with other factors, family policies also play a role in the fluctuations of fertility rates, as eligibility to parental-leave and benefits as well as the availability of public childcare are linked to parents' labor-force attachment.

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<sup>1</sup> Dept. of Sociology, Stockholm University, Sweden. E-mail: livia.olah@sociology.su.se

<sup>2</sup> Professor emerita. Dept. of Sociology, Stockholm University, Sweden.  
E-mail: eva.bernhardt@sociology.su.se

## **1. Introduction**

Sweden is well-known as the forerunner of the so-called Second Demographic Transition characterized by the dramatic transformation of family patterns towards less committed and more fragile couple relationships, by the later and less likely transition to parenthood, and by the sharp reduction of higher-order births currently taking place in Europe and European-origin populations (Lesthaeghe 1995). It may seem contradictory that Sweden, as a ‘pioneer’ of the Second Demographic Transition, commonly associated with low fertility, also exhibits one of the highest fertility levels in Europe, with a completed fertility close to replacement. This is an issue that has puzzled many researchers and continues to do so. In this chapter, we aim to shed some light on some of the crucial features of Sweden’s demographic and socio-economic landscape, hopefully increasing our understanding of this apparent paradox.

Sweden is the largest country in Scandinavia, both in terms of land area and population size – currently about 9.1 million. Period fertility has strongly fluctuated below the replacement level since the late 1960s along with a relatively stable cohort pattern of about two children per woman for women born in the 20<sup>th</sup> century. High rates of non-marital cohabitation, extramarital childbearing, and partnership break-up have accompanied this trend. The infant mortality rate is low and average life expectancy is high, even by international comparison, with 82.8 years for women and 78.4 years for men in 2005. Up to the 1930s, the country saw negative net migration, but following the Second World War Sweden became a land of immigration. In 1960, 4% of the population (ca. 300 000 people) was foreign-born, but this share increased to 12 % (over one million people) by the early 2000s. Including individuals born in Sweden with both parents born abroad, the proportion of those with a foreign background equals 16 % of the population in 2005 (SCB 2004a, 2006a). Because of immigration, the population growth rate has remained positive, unlike the growth rate in some other European countries. However, Sweden is among the five countries with the highest percentage of elderly aged 65+ in the population, displaying one of the highest dependency ratios in Europe (Council of Europe 2005). Thus, population aging, which is the result of long-term below replacement fertility and low mortality, is a major concern of policy makers owing to the challenges it imposes on the welfare state.

Sweden is the prototype of the Social Democratic welfare state pursuing a ‘solidary market economy’ based on free education, full employment merged with an active labor market policy, a collective bargaining system, and generous social provisions that are redistributing between individuals and across various life stages of individuals through the tax system. Sweden’s public policies reflect a strong commitment to gender equality based on ideals of women and men equally sharing paid work and family responsibilities. Family taxation was replaced by individual taxation in

the early 1970s, and female employment rates in Sweden have been among the highest in Europe ever since, with nearly one-third of mothers of pre-school-aged children working part time (SCB 2003a). The vast majority employed in the public sector are women, which at least partly explains why the occupational structure in Sweden has remained markedly gender-segregated. Yet, gender equality is promoted also by family policies as seen in the parental-leave system introduced in the mid-1970s. These policies, with further reforms since, enhance fathers' involvement in active parenting and the provision of subsidized, high-quality public childcare enable women and men to combine employment and parenthood. In fact, it has been argued that Swedish fertility, relatively high compared to most other European countries at least, is due to the construction of Swedish family policy (Bernhardt 1992) and the 'woman-friendly Swedish political culture' (Hoem 2005, p. 568).

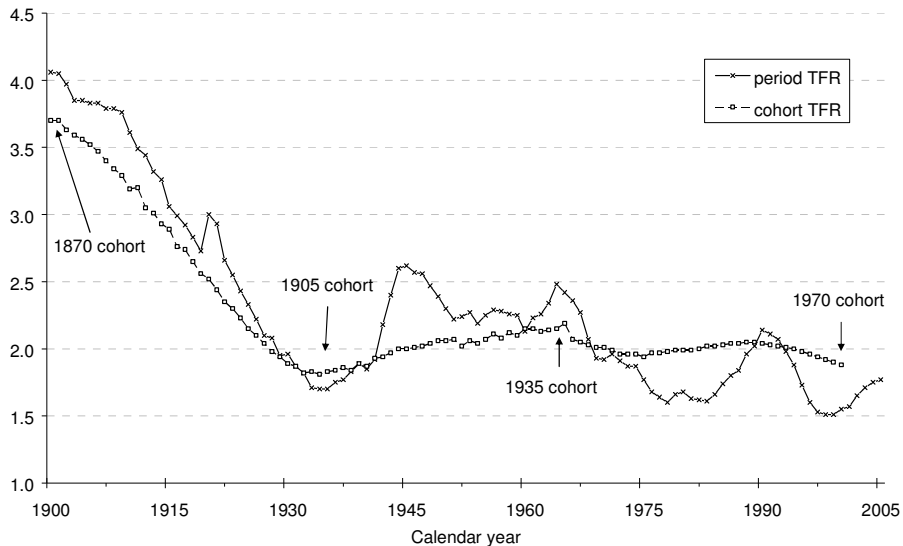
In this chapter we analyze recent childbearing trends in Sweden. First, we discuss the development of fertility in the 20<sup>th</sup> century with an emphasis on the final decades, focusing thereafter on the most important proximate determinants of fertility. Next, ideational changes are highlighted, followed by a discussion of changes in social conditions and on public policies that modify family behavior. Concluding remarks on fertility development and its explanations round up the chapter.

## **2. Fertility trends**

After a nearly continuous decline over the first four decades of the 20<sup>th</sup> century followed by the baby-boom of the 1940s, and somewhat lower but stable fertility levels in the 1950s, childbearing trends in Sweden have shown a roller-coaster pattern from the 1960s onwards (Hoem and Hoem 1996). Often explained by women's sharply increasing labor-force participation, the TFR decreased from a high of 2.48 children per woman in 1964 to a low of 1.61 in 1983, when it turned, resulting in a 'mini baby-boom' in the late 1980s-early 1990s (Figure 1). Nearly 124 000 children were born in 1990, when the period TFR reached replacement level for the first time since 1968, in combination with the highest female employment rates ever. This was followed by a marked decline in fertility in the 1990s, with around 89 000 births per year by the end of the decade. In 1998-1999, the lowest TFR (1.51) ever in Sweden was recorded. This may be compared to the low birth rates in the mid-1930s, when the 'crisis of the population question' was one of the main topics of the Swedish political discourse, given a TFR of around 1.70, which resulted in lower reproduction rates than recent comparable fertility rates, given higher death rates then. Even though fertility has been slowly increasing again since the year 2000, the number of deaths exceeded the number of births in the 1997-2001 period - for the first time ever in post-transition Sweden.

Fertility continued to rise with the period TFR reaching 1.77 (101 000 children born) in 2005 (SCB 2002a, 2004b, 2006b).

**Figure 1: Period and cohort total fertility rates, Sweden, 1900-2005, cohorts born 1870-1970**



Source: SCB 2002a, 2006b, Council of Europe 2005.

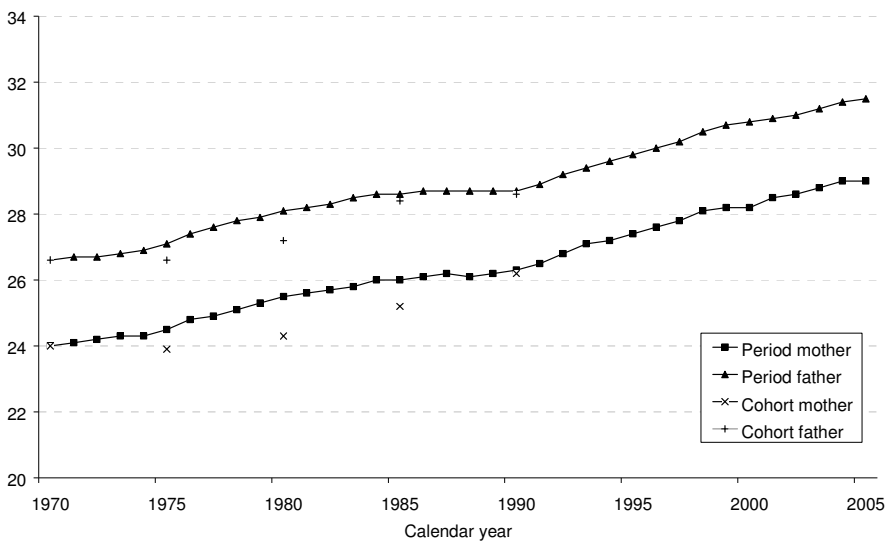
Note: The time lag between the period TFR and cohort TFR is 30 years.

While the period TFR has remained below the replacement level since the late 1960s (except 1990), most cohorts born in the 20<sup>th</sup> century have displayed a fertility level of around two children per woman. Completed cohort fertility also showed more moderate fluctuations than did period fertility trends (see Figure 1). Women born in 1904-1905 had the lowest fertility, with 1.8 children on average, while the cohorts born in the first half of the 1930s saw the highest fertility (nearly 2.2). For younger cohorts, especially those born in the 1970s or later, fertility is expected to remain below two children per woman (SCB 2002a).

The decline and the strong variations in period fertility since the 1960s are related to (i) the postponement of first childbearing, also noticeable in the cohort pattern, and (ii) the changing proportion of families with more than two children, which also is

partly related to the deferment of parenthood. Delaying the first birth increases the risk of childlessness and, given the biological limits, it reduces the span available for reproduction and thereby the number of children born to the women involved. Within a period of 35 years the age of entry into parenthood increased by five years, from a mean age of 24 and 26.6 for first-time mothers and fathers, respectively, in 1970 to 29 and 31.5 years in 2005 (SCB 2002b, 2006a) (see Figure 2). Looking at cohorts born 30 years earlier, we can link the start of the postponement of parenthood to those born in the mid-1940s. For the 1960 cohorts, there is no noticeable difference in the mean age at first childbearing by cohort and period. While we do not have data for cohorts after 1960, there is no reason to assume any changes in this pattern.

**Figure 2: Mean age at first birth for mothers and fathers, Sweden, 1970-2005, and for selected cohorts born 1940-1960**



Source: SCB 2002a, 2006b.

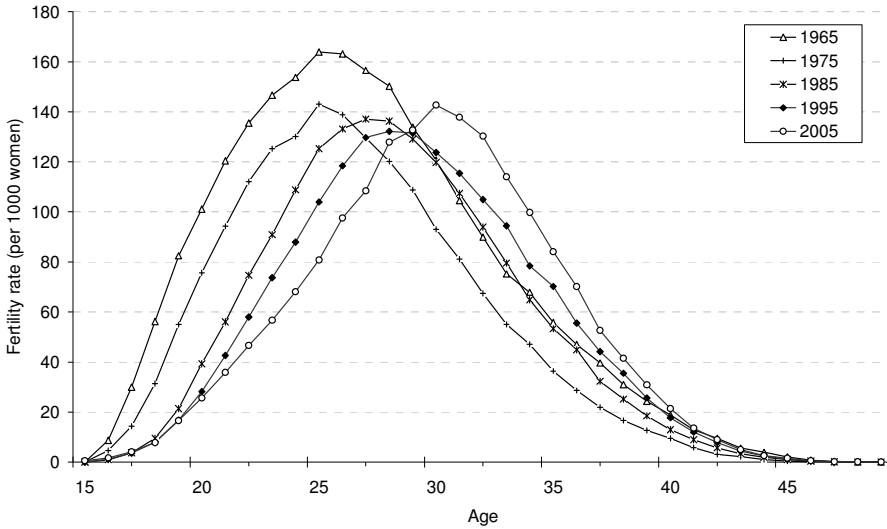
The increase in the mean age of first childbearing over time is the result of the strong variations in younger women's first-birth fertility and a smooth but nearly constant increase in first childbearing among women aged 30 and above. From the mid-1960s to the mid-1980s, the propensity to have a first child declined among women below 30 years of age, it increased thereafter until the early 1990s, when it declined again but stabilized in 1998, and it increased slightly after 2000. For women in their 30s, the propensity of first birth rose from the early 1980s, followed by a decline in the 1990s, only to climb again since 1998 (Andersson 2004a). First-birth rates among women in their 40s increased over time, even in the 1990s. Men's first childbearing patterns are very similar to those of women, but men are on average two years older than women when they have a first child (SCB 2002a).

Strong period fluctuations characterized the higher-order birth rates as well. Second-birth fertility fell in the late 1960s but became rather stable thereafter. It increased sharply as birth intervals shortened related to changes in the parental-leave program in the 1980s. Currently, almost half of all second births occur before the first child turns 2.5 years of age. The propensity of second birth declined between 1992 and 1997, but rose again thereafter (SCB 2002a, Andersson 2004a). The two-child norm is well established in Sweden. Among those who become parents before age 35, about 80% also have a second child. At the same time, only 20% of all births are of third or higher order (SCB 2002a). Between the mid-1960s and 1977, third- and fourth-birth rates decreased, then the trend reversed. The increase was interrupted in the early 1990s, followed by a decline that stabilized and slightly reversed after 1997 (Andersson 2004a).

As mentioned, the strong fluctuations of period fertility rates were accompanied by a rather smooth pattern of increasing postponement of childbearing over time. In the 1960s and 1970s, fertility was highest at ages around the mid-20s (25-26 years), shifting gradually to the late 20s from the mid-1980s (Figure 3). In 2005, the highest fertility displayed was at the age of 30. Similarly, since the 1990s next highest fertility has been seen for the ages of late 20s and early 30s, instead of the early 20s, as was previously the case. At the beginning of the 21<sup>st</sup> century, women aged 29-31 have the highest fertility, next highest are those in their early 30s, and fertility is higher at ages in the mid- and late 30s rather than in the early 20s (SCB 2006c).



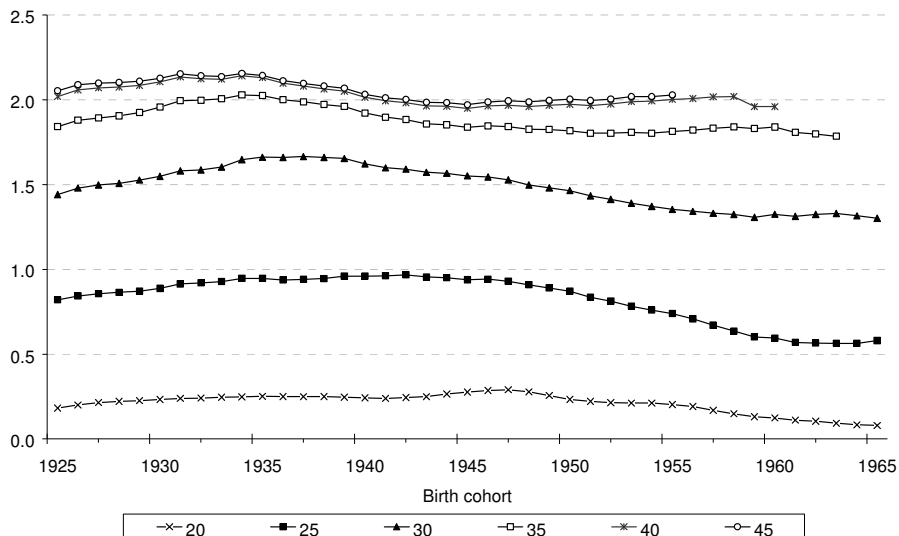
**Figure 3: Age-specific fertility rates for women aged 15-49 years, selected years 1965-2005**



Source: SCB 2006c.

The pattern is similar also when we look at cohort fertility. While the total number of children by age 40 is about two for all cohorts displayed (we have no data for that age for the cohorts born in the 1960s), fertility at younger ages, especially at age 30 and below, is lower for cohorts born after 1945 than for the older cohorts (Figure 4). The youngest cohorts (born in the late 1950s and early 1960s) seem to have caught up in their late 30s. Women born in 1955 and 1965 had lower first-birth rates at ages 20-30 but higher rates in their 30s and 40s than earlier cohorts. The 1975 cohort (not displayed here) had even lower first-birth rates before age 25 than those born ten years earlier (SCB 2002a).

**Figure 4: Accumulated fertility up to certain ages for female birth cohorts 1925-1965**



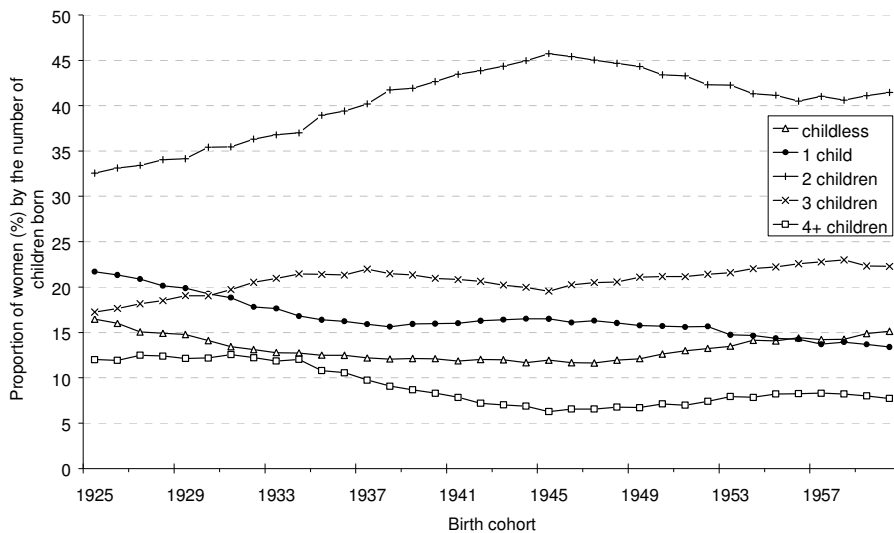
Source: SCB 1999.

Note: Up to and including age.

The proportion childless at the end of the reproductive period declined across cohorts of the mid-1920s and mid-1930s, but increased among those born in the late 1940s and reached 15% among the cohorts of the late 1950s (Figure 5). Given fertility trends in the 1990s, childlessness is likely to increase further among those born in the 1970s and later, but will remain at a moderate level compared to, e.g., German-speaking countries. Also the share of one-child families decreased among the older cohorts displayed, from about one-fifth for those born in the mid-1920s, stabilized for those born between the late 1930s and early 1950s, and declined smoothly across those born later in that decade to 13% for the 1960 cohort. Thus, having only one child is a rarely chosen family-pattern, while being the next frequent one among those born 35 years earlier. The two-child norm applies to all cohorts, especially those born in the mid- and late 1940s as nearly half of them (45%) have two children. Having three children is also a quite common pattern chosen by about every fifth woman. The proportion of large families, i.e., with four or more children, diminished across cohorts but leveled off for those born in the late 1940s and increased slightly for cohorts born in the mid- and late

1950s. Nevertheless, the share of families with more than two children has been quite stable – around 30% across the cohorts displayed here (SCB 2006c). This, in combination with the high proportion of two-child families and a moderate level of childlessness, can explain the rather stable pattern of cohort fertility in Sweden.

**Figure 5: Cohort parity distribution, women born in 1925-1960**



Source: SCB 2006c

In sum, the strong fluctuations in period fertility rates below the replacement level in the last four decades have been accompanied by a quite stable cohort fertility level (around two children per woman). Parenthood has been increasingly postponed, linked to the structure of the parental-leave program, but the proportion of childless and of one-child families has remained at a moderate level, unlike in some other European countries. In the following sections we seek explanations for these trends.

### **3. Proximate determinants of fertility**

#### **3.1 Partnership trends**

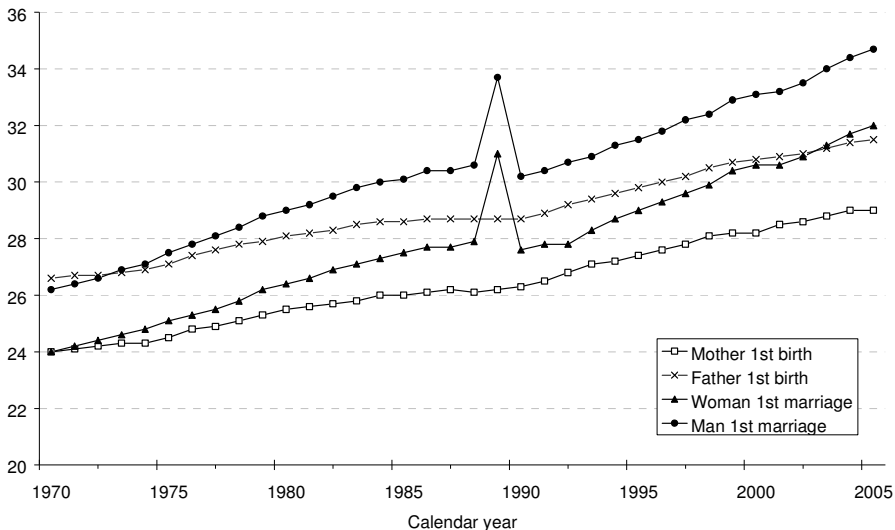
Fertility development has been closely related to changes in partnership trends. With the exception of a small increase in 1974 when both divorce and marriage procedures were simplified and apart from a 'marriage-boom' in 1989 when, related to changes in the widows-pension rules, the number of marriages nearly trebled compared to the 1970s and 1980s (Hoem 1991), the propensity to marry decreased steadily in Sweden from the late 1960s. At the same time, the prevalence of non-marital cohabitation increased rapidly, first among divorced women, then also among the never-married. Of the co-residential partnerships of Swedish women and men aged 25-34, 85% are cohabiting unions, according to data from the Eurobarometer Surveys of 2000 and 2001 (Kiernan 2004). In fact, at the beginning of the 21<sup>st</sup> century, only a small fraction of first partnerships starts as marriage (Andersson 1998, Bernhardt 2002). This may also be linked to the concept of gender equality, as own earnings and thereby financial independence have increasingly enabled women in Sweden to postpone marriage without giving up the advantages of a co-residential relationship.

In the mid-1970s, childbearing began to precede marriage, as having children in cohabiting relationships had become accepted<sup>3</sup> (Thomson 2005). Since then, the mean age at first birth has been below that of first marriage; both events being increasingly delayed (see Figure 6). The proportion of extramarital births in Sweden has been among the highest in Europe for decades, yet the share of births to single mothers<sup>4</sup> has remained at around 10 per cent except for the mid-1990s (SCB diff. yrs., 2005a, 2006c). Couples often marry after the first or second birth. Today, nearly 60% of all children and two-thirds of all first children are born in non-marital cohabiting relationships in Sweden (Figure 7). Birth intensities are usually higher, however, for married women than they are for cohabiting women at least up to parity 3 (see Berinde 1999; Santow and Bracher 2001; Oláh 2003, forthcoming).

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<sup>3</sup> Children born within and outside marriage have the same rights in Sweden since the late 1960s (Kiernan 2004).

<sup>4</sup> Single here means not being co-resident with the child's father at the time of the birth. Such information is published only for the years since 1995. Data for previous periods distinguish only between marital and extra-marital childbearing.

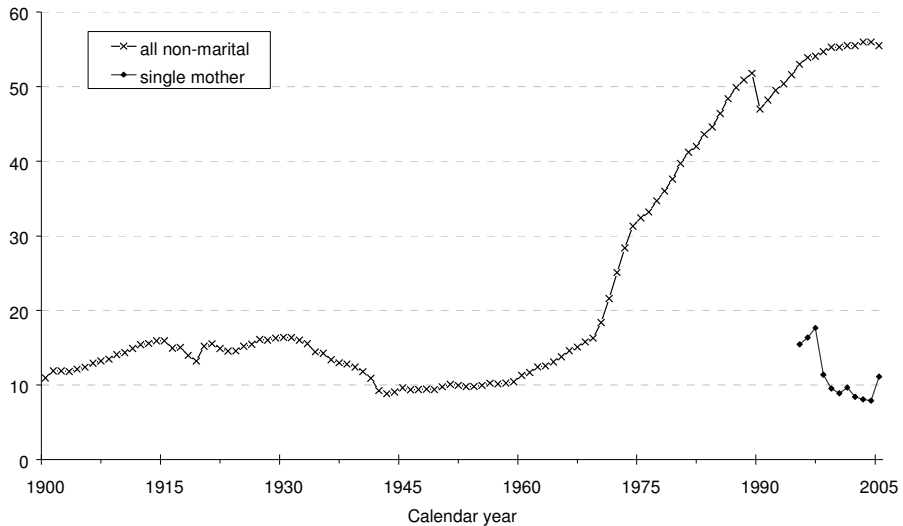
**Figure 6: Mean age at first birth and at first marriage, 1970-2005**

Source: SCB 1999, 2002a, 2006b.

Divorce rates have increased in parallel with decreasing marriage rates. Due to the liberalization of the divorce law (i.e., no-fault divorce, no waiting time for couples without children and merely 6 months for those with children), the divorce risk rose to around twice its previous level in 1974, mostly due to an increasing propensity among childless women to divorce. Then and in the following year, the number of divorces exceeded 25 000 compared to a maximum of 16 000 a year previously, resulting in a total divorce rate of 0.5 (50 of 100) (Council of Europe 2005; SCB 2007a). From the 1980s, especially the late 1980s, the divorce propensity increased again, but this time mainly for mothers. The increase leveled off at the beginning of the 21<sup>st</sup> century (Andersson 2004a). While we do not have exact statistics regarding the disruption of non-marital cohabiting unions, it has been shown that these unions are even more fragile than marriages. For example, among couples with children, the risk of partnership dissolution is at least twice as high in cohabiting relationships as is the risk among married parents in Sweden (Oláh 2001; SCB 2003a). The high separation and divorce propensity can also be linked to gender equality. While spousal alimony after divorce was abolished by the new law in 1974, employment brought women financial

independence and empowered them to leave an unsatisfactory relationship even if they have children.

**Figure 7: Proportions of extra-marital births in 1900-2005, and of births to single mothers (%), 1995-2005**



Source: SCB diff. yrs., 2005a, 2006c, 1996-2001, 2001-2003, 2004-2005.

Note: Own calculations regarding the proportion of births to single mothers, based on data from SCB 1996-2001, 2001-2003, 2004-2005.

The growing prevalence of the more fragile non-marital cohabiting relationships and the increasing divorce rates also have contributed to the decline of fertility by reducing the time of living in a stable partnership in which one considers having children. For example, a couple may need a prolonged period to feel secure about the relationship surviving the tensions brought about by childrearing. Also, the period of conflicts prior to separation can hardly be regarded as time for childbearing. Furthermore, the proportion of first births occurring in the first co-residential partnership decreased over time. About 80% of the cohort born in 1949 had the first child in the first relationship compared to 70% of the 1959 cohort (SCB 1995). As more people have ended the first relationship childless, the time available for reproduction

shortened, which can suppress the number of children eventually born. Nevertheless, the number of higher-order relationships formed in the reproductive years increased (Bernhardt and Goldscheider 2002), and possibly childbearing in such unions did so, too. It has been shown, e.g., that Swedish women whose first and second children were born in different relationships had a higher third-birth intensity than those who had two children with the same partner (Hoem and Hoem 1989). In 2001, about 6% of two-child parents had their children with different partners compared to nearly one-fifth of those with three children (SCB 2002b). Stepfamily fertility is, however, a complex phenomenon (see e.g., Vikat et al. 1999) and to estimate its contribution to the total fertility of the country is beyond the scope of this paper.

### **3.2 Birth control and abortion**

Pregnancy interruption was a crime prior to 1975, but the Abortion Law of 1938 did allow some exceptions: abortions due to medical, humanitarian, and eugenic indications. In 1946, a socio-medical indication was added, which made abortion an option for women with many children who lived in difficult economic circumstances. Since relatively young, healthy women with no or only few children were denied the procedure, the number of illegal abortions remained high well into the 1960s. A more liberal interpretation of the old abortion law then became normal practice, which resulted in a gradual disappearance of illegal abortions. In the mid-1970s, a new abortion law was enacted, which stipulated legal abortion on demand up to the 12<sup>th</sup> week of pregnancy. The new law was combined with a regulation providing free contraceptive advice and subsidized contraceptives. The main aim of the new policy was to prevent unwanted pregnancies and to make all children born, wanted children. This has been an important prerequisite for the combination of work and family, which has been the dominating pattern for several generations of Swedish women.

Currently, highly effective contraceptive methods (the pill and the IUD) are easily available and widely used in Sweden. Thus, birth control is largely in the hands of women, using efficient methods not directly related to the sexual act, unlike the earlier male methods of using a condom or coitus interruptus. The use of condoms has decreased in the last decades, substituted by 'modern' methods (the pill or IUD). According to surveys conducted in 1967 and 1996, the same proportion (60%) used condoms, the pill or IUD at the time of the latest coitus. About 20% of the couples rely on traditional methods (mostly coitus interruptus); this proportion has remained fairly stable for several decades (Socialstyrelsen 2005). However, as reliance on traditional methods is clearly age-related and used less frequently by young people, this proportion may be decreasing over time. A reason for the continued, relatively frequent use of

traditional methods might be the fact that abortion on demand has been available (as a backup for contraceptive failure) since the mid-1970s (and was, in fact, quite easily available even before that, with the old abortion law). This may also explain the relatively infrequent use of sterilization in Sweden. A new law introduced in 1976 has permitted the sterilization of men and women above age 25. An estimated 10% of middle-aged couples have relied on this method of birth control at the end of their reproductive period. In 75 % of the cases, it is the woman who is sterilized. Swedish couples prefer to rely on safe but reversible methods, giving them a 'second chance' to have children with new partners after the break-up of earlier relationships.

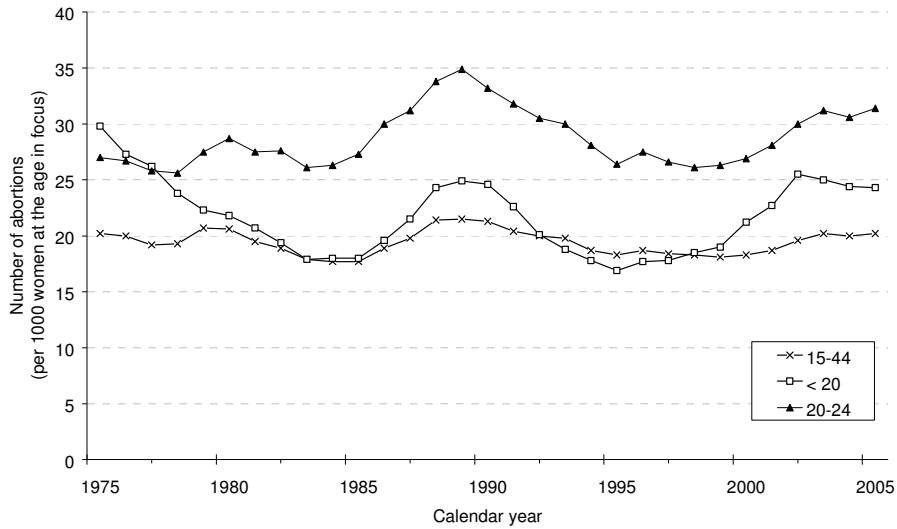
A recent study on the changing seasonality of births in Sweden (Cassel 2002) suggests that births increasingly are consciously planned, as the last decade of the 20<sup>th</sup> century exhibits a complete break in the seasonality pattern. Given frequent sexual activity during holiday periods, more children used to be born in early spring and fewer in the autumn before modern contraceptives and abortion were readily available. Under the new pattern, more children are born in the summer as conceptions are planned more consciously.

The first infant conceived using IVF (in vitro fertilization) in Sweden was born in 1982. In the early 21<sup>st</sup> century, the annual number of such deliveries had grown to about 1500, representing a little less than 2% of all deliveries. The use of the technique follows the maternal education level (Socialstyrelsen 2006a). Part of this may be due to differences in the maternal age distribution between women of different educational levels: Women with higher education postpone their pregnancies longer than those with lower education and with increasing age, the risk for infertility increases and so does the risk of IVF.

One aspect of sexuality and birth control that is rather special for Sweden is the early introduction of sex education in schools, which had already begun in the mid-1940s. When abortion on demand was introduced in 1975, sex education programs were strengthened in the schools, and special family planning clinics were established for young people who do not need their parents' permission to seek contraceptive advice and services. The sex education curriculum does not concentrate on marriage, yet emphasizes the value of lasting and intimate personal relationships and the need for responsibility in sexual relationships. There is a positive attitude towards sexual activity among young people, including those not living in co-residential relationships, and abstinence is not recommended as a way to avoid unwanted pregnancies.



**Figure 8: Number of induced abortions per 1000 women in different age groups, 1975-2005**



Source: Socialstyrelsen 2000, 2006b.

The current law permits abortion on the request of a pregnant woman until the 18th week of pregnancy and thereafter only in cases of severe indications, which constitutes less than 1% of all abortions. More than half of the induced abortions are performed before the end of the seventh week of pregnancy. Since 1975, the total annual number of cases has averaged between 30 000 and 38 000, indicating that, in combination with the number of births per year, about one-third of women have had at least one abortion during their reproductive period. There has not been much variation across social groups; rather by sexual behavior and relationship patterns (Socialstyrelsen 2005, 2006b). The rate of teenage pregnancy as well as the birth rate among teenagers is very low in Sweden (Darroch et al 2001). By age group, the abortion rate is highest among women 20-24 years of age (see Figure 8).

### **3.3 Ideational changes**

#### **3.3.1 Family ideals**

Swedes attach a high importance to the family. Yet, the country has a weak family system, where the individual takes priority over the family group, and young people leave the parental home at a relatively early age; in most cases to live independently before forming co-residential unions of their own (Bernhardt et al. 2005a). In his study of family ties in Western Europe, Reher (1998) describes the Swedes as committed to 'individualism and residential autonomy'. Thus, it may seem surprising that according to the European Values Study, including 32 European countries (Halman 2001), Swedes are somewhat more likely than the 'average European' to say that the family is very important in their life. Children are considered important but not necessary for a fulfilling life, in line with the post-modern values dominant in Sweden, which are also reflected in the higher than average proportions who say that friends and leisure are very important in their life. Further evidence of post-modern values is found in the high tolerance towards childlessness and alternative family forms other than marriage with joint children.

It is noteworthy that, in a country characterized by a high prevalence of unmarried cohabitation, as much as 80% of the population disagree with the statement that marriage is an outdated institution. Swedes also tend to think that both husband and wife should contribute to the household income (higher than average) and that paid work is important for women's independence. Fewer than average think that home and children are more important to women than paid work. The European Values Study thus gives a clear picture of a society where egalitarian families are a prominent part of the overall value structure. It is also well known that Sweden is a highly secular country, and this is reflected in the responses to the question of how important God is in one's life. Sweden (and Denmark) score the lowest of all of the 32 countries included in the study. Swedish survey data for young adults show that the relatively few (about 14%) who consider religion important in their lives score significantly higher on familism than those who consider religion unimportant (unpublished results).

The personal ideal family size among Swedish women aged 20-34 is among the highest in the European Union (2.4 children per woman), with a very low percentage considering one (or no) child as preferable (Goldstein et al 2003). A survey of young adults in Sweden (22-34 years of age) confirms the strong two-child norm in Sweden: that is the desired or intended family size of about 60% of the respondents, while less than 10% prefer to have just one child (or no child at all). However, fewer than 5% want four children or more, thus the emphasis is on having two (or possibly three) (Bernhardt 2005).

### 3.3.2 Norms and attitudes

Studies on the impact of culture and norms on individual childbearing behavior are so far relatively rare in Sweden, despite strong theoretical underpinnings. An exception is Bernhardt and Goldscheider (2006), who analyzed Swedish survey data (Family and Working Life in the 21<sup>st</sup> century) on attitudes toward parenthood among young adults aged 22-30 in 1999, some of whom became parents over the following four years. While both men and women perceive more benefits to parenthood than costs, men are more likely to perceive both the negative consequences of parenthood, such as loss of personal freedom, economic problems and less time for friends, and they are more likely than women to expect positive consequences, such as an improvement in their relationship with their partner and a life with more meaning. However, men with more egalitarian attitudes perceive fewer costs and more egalitarian women perceive fewer benefits than those with more traditional attitudes. The analysis of the transition to parenthood indicates that, even when controlling for an assessment of the costs and benefits of children, men with more traditional attitudes were more likely to become fathers at an early age. In contrast, there were no gender differentials in the effect of the costs and benefits, each of which strongly affected the transition to parenthood, but, of course, in opposite directions.

Bernhardt and Goldscheider (2007) have analyzed three different aspects of socially constructed gender expectations among young adults in Sweden. Namely these are the preferred balance between work and family when the couple has pre-school children, views on whether parents should share equally the responsibility for child care tasks, and attitudes to gender equality in the workplace and in the society at large. Men and women did not seem to differ in their views on shared parenting, i.e., concerning parental responsibilities in everyday life, norms about how the practical tasks with regard to childcare should be shared. In contrast, young women are much more in favor of gender equality in work life, economic autonomy, and an egalitarian work-family balance. This gender differential may be due to different notions about the division of housework, with men being less enthusiastic about housework than about childcare<sup>5</sup>.

Another study, using the same data set, focused on the relationship between attitudes, evaluations, and intentions on the transition to marriage or separation among cohabiting young adults, in the Swedish context of considerable social acceptance of unmarried cohabitation even among parents (Moors and Bernhardt 2006). Which ideational factors influence their propensity either to formalize their relationship by getting married or to split up? A two-wave panel study including 705 never-married

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<sup>5</sup> One difference between the question about the work-family balance and that of shared parenting was that the first one mentions "responsibility for home and children" and the second one makes reference only to childcare.

respondents cohabiting at the time of the first survey in 1999 shows that ideational factors influence subsequent behavior, even when different sets of control variables were included in the model. In the four-year period following the first survey, there were 113 separations and 168 marriages, while 414 respondents were still cohabiting with the same partner four years after the initial survey.

As was hypothesized, familistic attitudes were found to influence subsequent transitions among cohabiting couples, making marriage more likely and decreasing the likelihood of separation. Work-related values of success, by contrast, increased the likelihood of both transitions, indicating that 'career-orientation' either leads to a more stable form of living arrangement, i.e., marriage, or, if the relationship is not satisfactory, to a break-up. Respondents who were highly satisfied with their current relationship were more likely to marry and less likely to separate, while those who felt that being single again would improve their well-being, behaved in the opposite way, confirming the authors' hypotheses and corresponding with earlier findings. Intentions to marry and childbearing plans (among the childless) also influenced behavior among cohabiting couples, making them more likely to marry and less apt to separate. Intentions only partly mediate the effect of attitudes and effects appear to be stronger for female respondents.

### **3.4 Changes in social conditions**

#### **3.4.1 Ethnic composition**

The increasing prevalence of new family ideals, norms, and attitudes has been accompanied by changes in different aspects of social conditions, among other things, by changes in the ethnic composition of the population. While previously a relatively homogeneous society, immigration has become an important component of population growth in Sweden in the second half of the 20<sup>th</sup> century. In the 1960s, labor-force immigration dominated, mostly from other Nordic countries, but also from Southern Europe. From the mid-1970s, the main reason for immigration has been family reunification, as well as asylum. In the 1990s, a large number of refugees came from the Balkans. Yet, the proportion of immigrants of non-European origin has been constantly increasing. Currently more than every fifth person in the Swedish population has a 'foreign background', i.e., they are foreign-born or born in Sweden to foreign-born parents, including the 6% of the population with one parent born abroad (SCB 2004a).

These substantial changes in ethnic composition raise issues such as the immigrants' (and their children's) adaptation to Swedish values, especially regarding gender equality and family patterns. In a recent study on attitudes and behavior related

to family and work, young adults living in Sweden with at least one parent born in Poland or Turkey were compared to native Swedes (i.e., those with two Swedish-born parents) of the same age (Bernhardt et al. 2005b). Young women and men of Turkish origin displayed a more distinct family pattern than the other groups as they were much more likely to live in the parental home while unmarried, much less likely to cohabit, and much more likely to be married, although they held more favorable attitudes towards cohabitation than their behavior would suggest. Also, they were less supportive to inter-partnering and fewer considered an egalitarian work-family balance as ideal, where women and men share support and care giving responsibilities for young children (60% versus 75% among the native Swedes and those of Polish origin). Women were more egalitarian in all ethnic groups than men, but the difference was largest in the group of Turkish origin. Not surprisingly, educational attainment and exposure to Swedish society (in terms of neighborhood composition) were found to be important determinants of family attitudes and behavior of young adults of both ethnic origins studied, with implications for prospective changes in both behavior and attitudes, approaching those of the native population (for further details on this issue, see Bernhardt et al. 2007).

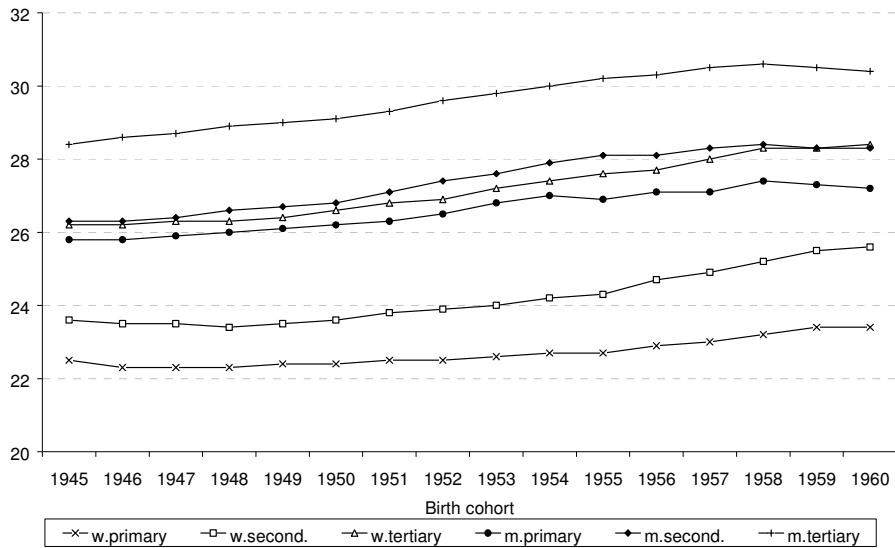
The fertility of immigrants has not been studied much in Sweden, but the few important exceptions (Andersson 2004b; Andersson and Scott 2005) show that period fertility trends of Swedish-born and immigrant women have been quite similar for several decades, and during the 1990s, birth-intensities for parities 1-4 decreased for these groups alike. Labor-market status was found to be important for the timing of first birth of both native and foreign-born women in the 1980s and 1990s, as low income reduced the propensity to become a mother while high income increased it, as did a good local business climate. Being enrolled in education greatly suppressed fertility across all groups. Contrary to public belief, immigrant women who received social assistance (i.e., welfare benefits) had a 30-60% *lower* risk to have a first child than Swedish-born women, except for those born in Finland, Germany, and Thailand, all of whom are most likely to live with a Swedish man (Andersson and Scott 2005).

### 3.4.2 Education

Education is another prominent aspect of social conditions. During recent decades, the population in Sweden has become more highly educated. At the same time, the differences between the sexes regarding the proportion of highly educated have greatly diminished, and by 1990 women aged 25-64 years were just as educated as men. By the early 2000s, a higher proportion of women than men, i.e., 41% versus 34%, had high education in ages 25-44 years (SCB 2004c). The proportion with only primary

education diminished across cohorts, from about one-third of the 1945 cohort to 12% among women and 18% among men born in 1960. These changes in educational levels also had implications for fertility, related especially to the postponement of parenthood. While the deferment of first birth is noticeable for all educational levels across the 1945-1960 cohorts (Figure 9), it is greater at the highest than at the lowest educational level (2.2 years versus 0.9 years, respectively for women, and 2.0 versus 1.4 years for men).

**Figure 9: Mean age at first birth at different educational levels for Swedish women and men born 1945-1960**

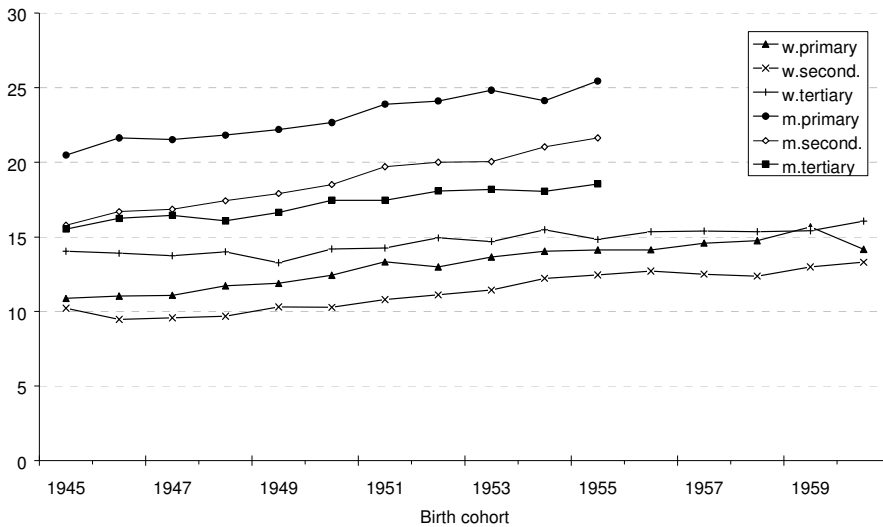


Source: SCB 2002a.

Childlessness is more common among the tertiary-educated women, whereas highly educated men are the most likely to become fathers (Figure 10). The increase in childlessness has been lowest for both women and men among those with the highest education. Regarding the number of children, there is very little difference across educational levels among men who are fathers. Among women, average family size has been largest among the least educated and smallest among the most highly educated

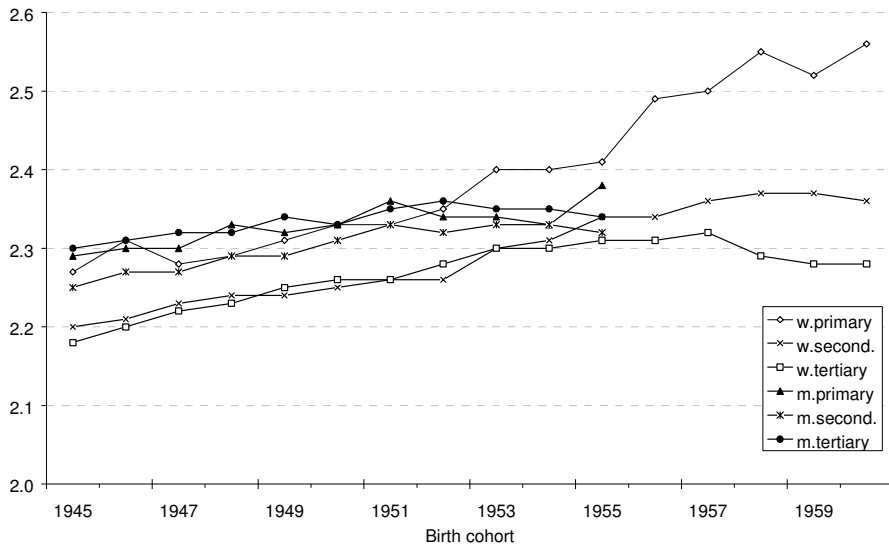
across cohorts (Figure 11), even though the propensity to have a child is at least as high for the highly educated women as for those with less schooling. The more educated become mothers at a higher age and therefore have a shorter reproductive span and thus fewer children than the least educated (SCB 2002a).

**Figure 10: Proportion childless (%) at different educational levels for Swedish women born 1945-1960 and men born 1945-1955**



Source: SCB 2002a.

**Figure 11: Average family size (number of children) among parents at different educational levels, Swedish women born 1945-1960 and men born 1945-1955**



Source: SCB 2002a.

The level of education attained may be, however, less important for fertility than the field of education, as two recent studies have shown analyzing register data on Swedish women born in 1955-1959 (Hoem et al. 2006a, 2006b). Education and fertility were regarded as dynamically interactive processes that mutually determine each other. Although permanent childlessness was seen to increase somewhat across educational levels and ultimate fertility was seen to decrease, the field of education appears to have a far greater impact than the level itself, given substantial variations in childbearing behavior across those at different educational fields at all educational levels. In particular, childlessness is lower and ultimate fertility is higher among women educated for jobs in health care and teaching than in other groups, while those educated in arts or for (non-teacher) humanist occupations have unusually high fractions of childless and low ultimate fertility. Childlessness is also very high among women with religious education, but they have quite ordinary ultimate fertility, similar to those with research degrees. The authors of the studies conclude that educational orientation can better capture the dynamics of education and childbearing, that are mediated through public



policies than the level of education alone, as it reflects the structure of the educational system inclusive of its gender aspects as well as a person's preferences regarding occupation and family life.

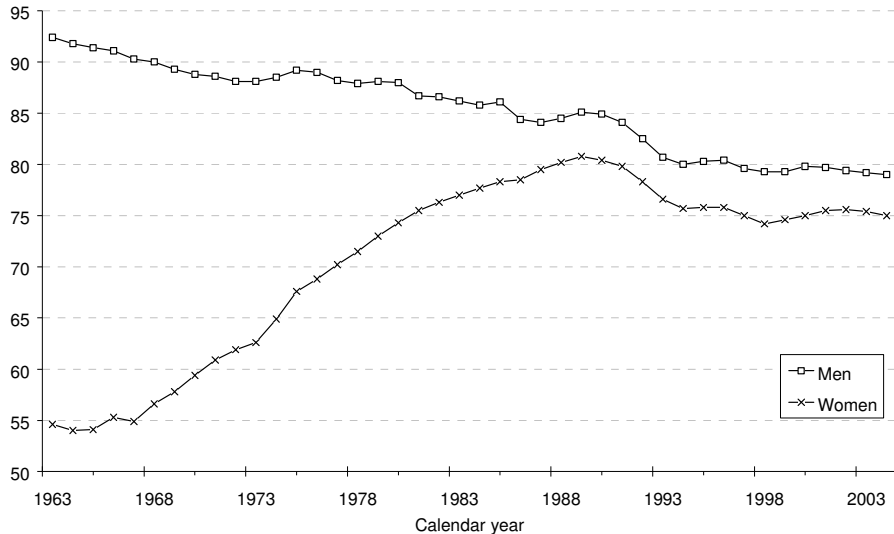
### **3.4.3 Economic development**

Female labor-force participation had already been substantial before women's educational attainment approached that of men. Since the 1970s, female employment rates in Sweden have been among the highest in the developed world, nearly catching up with those of men (Figure 12). The high level of female employment was seen as a main reason for the fertility decline between the mid-1960s and the mid-1980s, although changes in attitudes as well as the availability of increasingly effective contraceptives (e.g., the pill, IUD), which allowed women to take control over their childbearing, were probably just as important for fertility trends (SCB 2002a). In the second half of the 1980s, increasing female labor-market participation was accompanied by a substantial increase in fertility, followed by a dramatic decline of both birth rates and employment rates in the 1990s. The pattern of pro-cyclical fertility was shown to be generated by childbearing behavior that was strongly attached to income development at the micro-level<sup>6</sup>, given the income-related parental-leave benefits parents of young children receive in Sweden (for details, see the next section) (Andersson 2000). This was also shown at the macro-level given the positive association of first-birth rates and municipal employment levels (see Hoem 2000). The positive effect of income on the propensity to give birth was found to be strongest for young childless women. The effect was positive but less intense for first birth among women in their thirties, and even more moderate for second birth. Also, among men higher income was found to be positively associated to the propensity to have the first child. For those below age 30, the effect of income was smaller for men than for women, unlike in the ages of thirties and forties (RFV 2001). As for third-birth rates, it was shown that women with a high income had a higher propensity, while the pattern was U-shaped among men, i.e., both for those with high and those with low income had higher third-birth rates than other men (RFV 2003).

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<sup>6</sup> Santow and Bracher (2001), too, reported a positive effect of two years of full-time employment on the propensity to have a first birth within the next year. They also have shown that, among both women and men, having been in regular employment increases the propensity of entering cohabitation and of marrying without cohabiting first (Bracher and Santow 1998), which are also related to fertility as discussed earlier. These studies are based on Swedish survey data, while Andersson (2000) and Hoem (2000) used register data.

**Figure 12: Labor-force participation rates for Swedish women and men, 1963-2004**



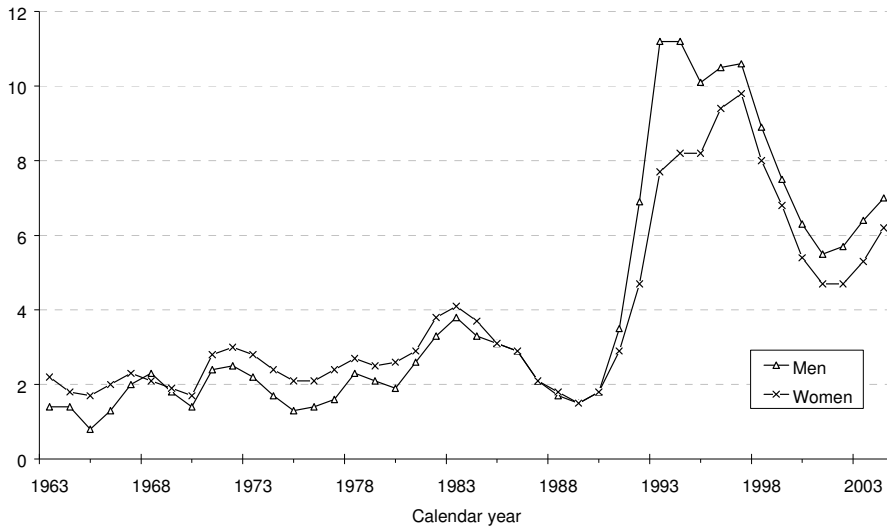
Source: OECD 2006.

Note: Total labour-force (% of population from 15-64 years).

In the early 1990s, uncertainty in the labor-market rose drastically. The unemployment rate increased substantially from a level of 2-3% of the previous decades to about 10% (OECD 2006) (Figure 13), and temporary employment contracts as well as employment for specific ‘projects’ became more and more common, especially at ages below 30 (SCB 2003b; Bygren et al. 2005). Among young people and immigrants, unemployment rates stood above 10% (SCB 2006d). As it has become increasingly difficult to find a stable job, the age of labor-market establishment (i.e., when 75% of young people are in employment) rose from 21 years in 1987 to 28 years by 1994 for men. This decreased to 26 years thereafter, where it remained since, and from 22 years in the late 1980s to 30 years in the mid- and late 1990s for women, decreasing to 28 years in the early 2000s (SCB 2002c, 2003b, 2006d) (Figure 14). At the same time, educational enrolment nearly doubled among both women and men during the main childbearing years (i.e., at ages 25-34), from a proportion of somewhat below 5% in 1991 to about 10% by the late 1990s. Looking at enrolment by sex and age groups since 1993 (when such data are available), which is the period immediately after

Sweden was hit by severe economic crisis, we find the greatest increase in the proportion of those studying among women at ages mid- and late 20s, followed by the early thirties (Figure 15). The growth in the proportion enrolled in education has been more moderate among men (i.e., about half that of women) for these age groups (SCB 2007b).

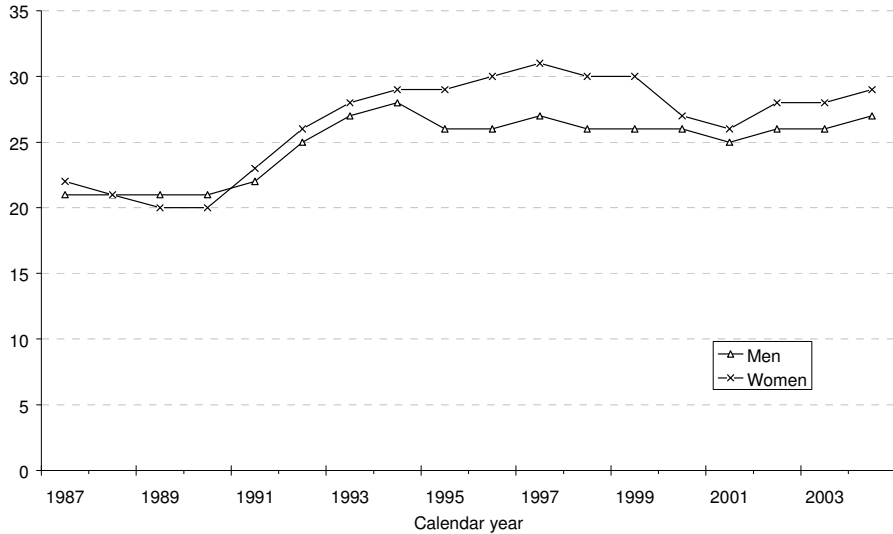
**Figure 13: Unemployment rates for Swedish women and men, 1963-2004**



Source: OECD 2006.

Note: Unemployment rates (% of civilian labor-force).

**Figure 14: Age of labor-market establishment among Swedish women and men, 1987-2004**

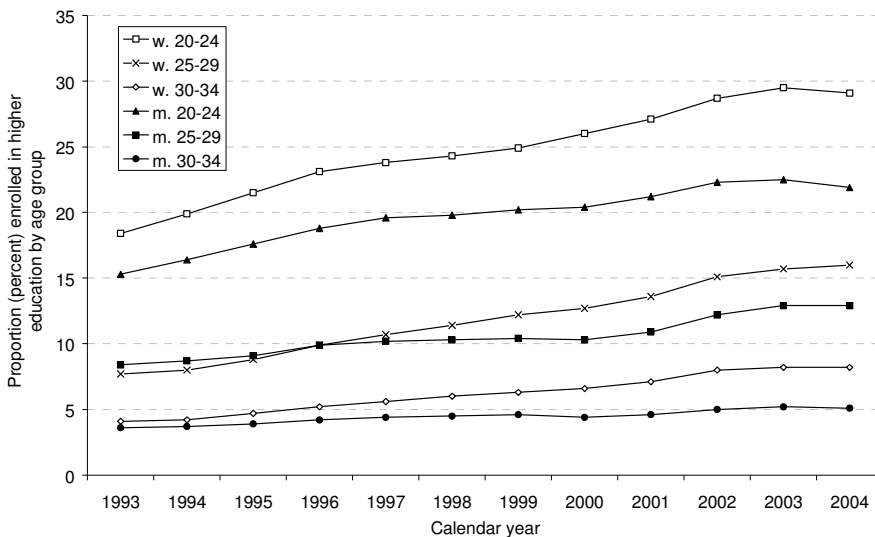


Source: SCB 2002c, 2006d.

The substantial increase in the proportion of young people enrolled in education, especially of those at main childbearing ages, has also contributed to the fertility decline, as students have generally much lower birth-risks than others. The propensity to have a first child was reduced by 50% for women in their 20s who studied compared to those not in education. Second- and third-birth rates were reduced by about 30% for students. Interestingly, there was no clear negative effect of educational enrolment for childless women in their 30s, perhaps because the space for further motherhood postponement is smaller for them (Andersson 2000). Among men who study, first-birth rates were about 40% lower than among those not in education (RFV 2001). Temporary employment contracts, too, were shown to reduce fertility; such women and men having more than 20% lower first-birth risk than those in permanent jobs. Among women aged 30 and above the propensity to become a mother was about 35% lower for the temporarily employed (Regeringskansliet 2001; SCB 2001). The lower birth propensities of students and those with temporary work contracts can be explained by parental benefits being income-related and by the job-guarantee attached to the parental-leave program being available only for those in stable employment, a position

which became increasingly difficult to obtain for young people in the 1990s. Thus, the compositional changes (i.e., the doubling of the proportion enrolled in education, a substantial increase of the fraction of young people with temporary employment contracts, and the smaller share of those with a permanent position and a good income) can explain at least part of the decline in first and second-birth rates in the 1990s.

**Figure 15: Proportion of Swedish women and men (%) enrolled in higher education at different age groups, 1993-2004**



Source: SCB 2007b (own calculations).

Note: Data on enrolment by age are available only for the years displayed here.

Although unemployment is an important component of the context based on which young people plan their childbearing, it does not seem to suppress fertility by itself. In fact, the propensity to have a first child was even higher among women and men who received unemployment benefits in the previous year compared to other groups (Hoem 2000; RFV 2001). Also, no important effect of unemployment was shown on the childbearing of mothers (Andersson 2000). However, when entries into and exits from unemployment were considered, even two-child mothers were shown to have a somewhat elevated risk to give birth (i.e., have the third child) in a certain year if they

received unemployment benefits in either of the two preceding years, compared to those in continuous employment (Hank 2001). The explanation of unemployment having a positive effect on childbearing may be linked to the Swedish parental-leave program, according to the authors of these studies. This is due to the fact that parental benefits may be higher than unemployment benefits, facilitating the decision to have a first child especially when one's prospects for employment are not really bright. Mothers can take advantage of the so-called speed-premium, which again would ensure as high a level of benefits as after the previous birth if the next child is born within 30 months (see details in the next section).

To claim a straightforward positive association between unemployment and fertility would be premature, however. Monthly time series of conceptions and abortions for the period 1987-2000 show that the rising unemployment rate in the early 1990s was followed almost immediately by a decrease in conceptions (Cassel 2005). With a delay of about one and a half years, abortions started to increase. Thus, both conceptions and abortions followed the unemployment trend, and they worked together to decrease the annual number of births. Out of the total decline in births from September 1991 to March 1997, 23% were due to a fall in conceptions given widely practiced efficient contraception, and 5% were due to a rise in the abortion risk. Hence, there is no doubt that economic development has become an important determinant of fertility in Sweden, not unrelated to changes in public policies.

#### **4. Public policies modifying fertility and family behavior**

It is not the stated goal of Swedish family policy to encourage childbearing or to keep the fertility rate at a certain level. It is, however, the stated goal of Swedish gender equality policy to enable both women and men to combine jobs with parenthood. For example, the Equal Opportunities Act of 1992 states that it is each employer's obligation to make it easier for both male and female employees to combine work and parenthood. In fact, family policies and gender equality policies in Sweden are not two separate entities, but are closely interwoven and constructed to mutually support each other. It has been argued that gender-equal family policy in Sweden has been successful, i.e., in promoting a gender-equal society, in keeping the relatively high birth rate, and in providing support for families and children (Bernhardt 2005; Hoem 2005).

Public policies in Sweden are based on the principle of equality, both across social groups and between women and men. Most social benefits are universal, except for housing benefits and social allowance, which are means-tested. Marital status matters very little for welfare provision, although some taxation rules are more advantageous for married couples, who also automatically inherit from each other, unlike cohabiting

couples. As for transfers regarding children, there is no distinction based on whether they were born within marriage or not. The main principle of social security in Sweden is that every adult is responsible for her or his maintenance through own earnings, unless being incapable of work because of sickness, disability or old age in which case she/he is eligible for special social provisions (sickness benefits, pension). There is no spousal alimony at divorce as both women and men are expected to be in paid work, which is promoted also by individual taxation introduced in 1971 (Oláh 1998). Yet, gender equality applies not only to labor-force participation but also to family responsibilities, with family policies facilitating the combination of employment and childrearing for both women and men.

#### **4.1 Parental leave**

The most important component of Sweden's family policy is the highly flexible parental-leave program introduced in 1974. Sweden was the first country in the world to acknowledge fathers as caring parents on a par with mothers. Parents who were in paid work for at least six months in the year prior to a birth were provided with a six-month leave, with 90% income replacement to be shared between themselves. Those with shorter or no previous employment have received a flat-rate benefit, which is currently 180 SEK per day (Försäkringskassan 2006a; JÄMO 2006). The parental benefit is taxable and paid by National Social Insurance, not by the parent's employer. Job security and pension entitlement is attached to the leave, which can be used on a daily or nearly hourly basis up to the eighth birthday of a child.

The leave was extended several times: to 9 months in 1978, to 12 months in 1980 and to 15 months in 1989. Since 1980 the last three months have been compensated with a low flat-rate benefit of 60 SEK per day. At the same time, fathers have become entitled to ten days of additional leave after a birth (the so-called daddy-days), compensated at the same level as the parental leave. To further facilitate the combination of employment and parenthood, parents have the choice to work part-time if they wish until their child is eight years old, with an equivalent reduction of their earnings. In addition, they are entitled to 60 days 'temporary parental leave' annually per child (below age 12) for the home care of a sick child. This leave can also be used in case the childminder is ill (Björnberg 2002). As a large part of the parental-leave is covered by the income-related benefit, this provides a strong economic incentive to establish oneself in the labor-market (and of having a stable income) for young people before opting for parenthood. Thus, the structure of the Swedish parental-leave program has probably strengthened the trend of postponing childbearing over time and may at least partly explain the decline of fertility in the 1990s, given the substantial proportion

of people in their 20s enrolled in education as well as difficulties to find a stable job, especially at ages below 30.

Since 1995, one month of the parental-leave has been reserved for the father and another month for the mother in order to promote a more gender-equal uptake of the leave. At the same time, the benefit level has been reduced to 80% of the previous income except for the last three months, and to 75% in 1996-1997. It may not be a pure coincidence that the two years following the further reduction of the benefit level also displayed the lowest TFR ever recorded in Sweden (1.5 in both 1998 and 1999), especially in combination with the economic hardships that families experienced due to the economic recession (Hoem 2000; Hoem 2005). The benefit level was increased again to 80% in 1998 (Sundström and Duvander 2002) and has not changed since. From 2002, the leave includes 16 months in total, of which 2 months are reserved for each parent, the rest to be divided as the parents wish.

As part of the leave has been reserved for fathers since the mid-1990s, the proportion of men taking leave has increased, but the average length of leave they take shortened at least partly due to the reduction of the benefit level (RFV 2002). Highly educated fathers, those with a higher income and/or with a highly-educated partner are more likely to take parental leave than other fathers, while men with a weak labor-force attachment and foreign-born fathers are much less likely to do so. At present, nearly half of the users of the parental-leave are fathers, but their uptake is about one-fifth of all parental-leave days a year (Försäkringskassan 2006b). Father's uptake of parental-leave seems to be of importance to keep fertility relatively close to the replacement level in Sweden, as it has been shown to increase the propensity to have a second and/or third child (Oláh 2003; Duvander and Andersson 2006).

The parental-leave program has influenced childbearing trends in Sweden also in other ways, as it contributed to the increase of birth rates in the 1980s due to the so-called speed-premium, which caused a shortening of birth intervals (Hoem 1990; Andersson 2004a). Since 1980, parents of more than one child have been entitled to benefits at least as high as for the previous child, without returning to the labor-market in-between births, if the interval between two subsequent births was 24 months at most. In 1986, this interval was extended to 30 months. Among mothers who had a first child in 1989, 45% had a second child within 30 months after first birth compared to less than 30% of mothers who had their first child before 1983 (SCB 2003b). Also third-birth rates were affected by the speed-premium (Andersson 1999). The shortened birth intervals have been found for parents at all educational levels. Not only the magnitude in the change in spacing behavior, but also the rapidity in the adaptation to the new rules was very much the same across educational groups given the immediate response to the extension of the eligibility interval to 2.5 years in 1986. There were no substantial differences by education in later years either (Andersson et al. 2006).



## 4.2 Public childcare

The combination of employment and parenthood, and thus gender equality, is also promoted by the extensive provision of high-quality public childcare in Sweden. This is also considered as a guarantee of equality regarding the provision of care and education as well as the redistribution of resources between children across social classes and ethnic origin. Public childcare is provided mainly by the municipalities, financed by government subsidies and to a minor extent by parents' fees. The latter is linked to family income and the number of hours a child spends in the daycare center; but has a ceiling (the so-called maxtaxa, introduced in 2002). In the 1970s and 1980s, the state and the municipalities each covered about 45% of the costs, but the proportion of parents' contribution rose to 17% by the late 1990s (Bergqvist and Nyberg 2002).

Public childcare is available for parents of pre-school aged children, the former who study or who are gainfully employed for at least 20 hours a week. Since 2002, even children of unemployed parents and those on parental-leave are guaranteed three hours a day at the daycare center (Bernhardt 2005). Today, nearly all children of full-time working parents have a place in public childcare, with only small differences across educational levels and socio-economic statuses. The proportion of children aged 0-6 years enrolled in public daycare centers increased from 2% in 1966 to 53% in 1996, while the share of children in public family daycare increased from 1 to 17%. The share of childcare provided by the private market<sup>7</sup> increased to nearly 15% by the late 1990s (Björnberg 2002), as non-municipal childcare centers have become eligible for public subsidies since 1991.

The childcare system has usually been seen as a key factor for Sweden's relatively high fertility rates, but the impact of regional variations in the quantity, quality, and price of daycare on continued childbearing was found to be limited, at least in the late 1990s (Andersson et al. 2004). According to the authors of the study, this suggests that the overall coverage of childcare is currently sufficiently high in Sweden for fertility decisions to be made independently of specific characteristics of childcare in the local area.

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<sup>7</sup> Most private childcare centers are run by non-profit organizations, mainly by parental cooperatives. Commercial daycare centers accounted for about a quarter of private childcare by the late 1990s (Bergqvist and Nyberg 2002). Grandparents, other relatives or informal childminders provide only a limited proportion of care, given high employment rates and the lack of subsidies for these forms of private childcare (Björnberg 2002).

### **4.3 Housing**

While not directly related to family policy, housing availability is another issue of importance for childbearing. In a survey on Swedish women and men aged 30-45, good housing was considered as the third most important economic factor that affected the respondents' childbearing decisions (Löfström 2003). This finding is related to the growing influx of young people to the large cities in the 1990s, when housing construction remained relatively limited resulting in dramatically increasing housing costs. Birth rates have remained relatively low in the large cities, as the number of childless people is high and those having their first child in a large city municipality seem to be less likely to have further children (SCB 2005b) – both of these are likely to be linked, among other things, to housing availability. However, the issue has hardly been studied. As an exception, a preliminary analysis of data from a recent Swedish survey on housing and childbearing indicates that the housing shortage contributed to the fertility decline of the 1990s (Ström 2006).

## **5. Concluding remarks**

Sweden has been seen as the 'model country' of the Second Demographic Transition, given the substantial changes in family patterns, both for partnerships and childbearing, as early as in the late 1960s-early 1970s. The strong period fluctuations in fertility in the final decades of the 20<sup>th</sup> century have been accompanied by quite a stable cohort fertility level (around two children per woman), which may decline somewhat for more recent cohorts. Although parenthood has been increasingly postponed since the late 1960s, the proportion of childless and of one-child families is expected to increase moderately at most. As Billari and Borgoni (2005) have shown, the postponement effect on completed fertility seems to be rather weak in Sweden, or in other words, Swedish men and women show a strong tendency to 'recuperate' postponed childbearing. This may be due to the overall more favorable societal conditions for parents (labor-market regulations, the childcare system, and gender relationships), making further childbearing quite feasible once the couple has made the transition to parenthood. The increasing prevalence of egalitarian attitudes may also have contributed to the postponement of childbearing, as it has been shown that men who are holding more egalitarian attitudes tend to postpone the transition to fatherhood compared to those with more traditional attitudes towards gender equality (while no such effect was found for women). Thus, gender equality may on the one hand contribute to delayed childbearing, and, on the other, favor 'recuperation' and thus lead to higher completed fertility.

Female labor-force participation rates in Sweden have been among the highest in Europe. This also was considered as a main reason of the fertility decline between the mid-1960s and early 1980s, along with the increasing dominance of post-modern values and the availability of effective modern contraceptives and abortion on demand in case of contraceptive failure, allowing women to control their childbearing. The second half of the 1980s and the 1990s showed a pattern of pro-cyclical fertility as childbearing became strongly related to income development at both micro and macro levels. This pattern equally applied to native Swedes and the increasing fraction of immigrants in the Swedish population.

Swedish family policy, based on the principle of equality across social classes and gender, is shown to have strengthened both the delay of entry into parenthood and the pattern of pro-cyclical fertility. Eligibility to parental leave and the availability of public childcare have been linked to the (prospective) parents' labor-force attachment, with the level of earnings determining the parental benefit. These policy measures by themselves provided incentives for women's gainful employment, while the parental leave program also promoted men's active involvement in parenting, especially since the mid-1990s. The result is a society where egalitarian family ideals are more prominent than in most other European countries, and also nearly equally supported by women and by men (even if studies on the actual sharing of housework and childcare still show a noticeable gap between ideals and reality). Thus, combining childbearing and gender equality may be a way to keep fertility from dropping to the very low and/or lowest-low levels seen in many European countries, all of which had had higher fertility than Sweden until about 20 years ago. This is a strategy that seems to work, at least for Sweden.

## **6. Acknowledgments**

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