

Andersen, Torben M.

**Article**

## The Danish labor market, 2000-2016

IZA World of Labor

**Provided in Cooperation with:**

IZA – Institute of Labor Economics

*Suggested Citation:* Andersen, Torben M. (2017) : The Danish labor market, 2000-2016, IZA World of Labor, ISSN 2054-9571, Institute for the Study of Labor (IZA), Bonn, <https://doi.org/10.15185/izawol.404>

This Version is available at:

<https://hdl.handle.net/10419/177783>

**Standard-Nutzungsbedingungen:**

Die Dokumente auf EconStor dürfen zu eigenen wissenschaftlichen Zwecken und zum Privatgebrauch gespeichert und kopiert werden.

Sie dürfen die Dokumente nicht für öffentliche oder kommerzielle Zwecke vervielfältigen, öffentlich ausstellen, öffentlich zugänglich machen, vertreiben oder anderweitig nutzen.

Sofern die Verfasser die Dokumente unter Open-Content-Lizenzen (insbesondere CC-Lizenzen) zur Verfügung gestellt haben sollten, gelten abweichend von diesen Nutzungsbedingungen die in der dort genannten Lizenz gewährten Nutzungsrechte.

**Terms of use:**

*Documents in EconStor may be saved and copied for your personal and scholarly purposes.*

*You are not to copy documents for public or commercial purposes, to exhibit the documents publicly, to make them publicly available on the internet, or to distribute or otherwise use the documents in public.*

*If the documents have been made available under an Open Content Licence (especially Creative Commons Licences), you may exercise further usage rights as specified in the indicated licence.*

## The Danish labor market, 2000–2016

### Despite recession-induced job losses, high turnover prevented a steep increase in long-term and youth unemployment

Keywords: flexicurity, business cycles, structural policies, youth unemployment, immigration

#### ELEVATOR PITCH

Denmark is often highlighted as a “flexicurity” country characterized by rather lax employment protection legislation, generous unemployment insurance, and active labor market policies. Despite a sharp and prolonged decline in employment in the wake of the Great Recession, high job turnover and wage adjustments worked to prevent long-term and thus structural unemployment from increasing. While many have been affected by unemployment, most unemployment spells have been short, which has muted the effects on long-term and youth unemployment. Recent years have seen a sequence of reforms to boost labor supply and employment, including measures targeting the young, the elderly, and immigrants.

#### KEY FINDINGS

##### Pros

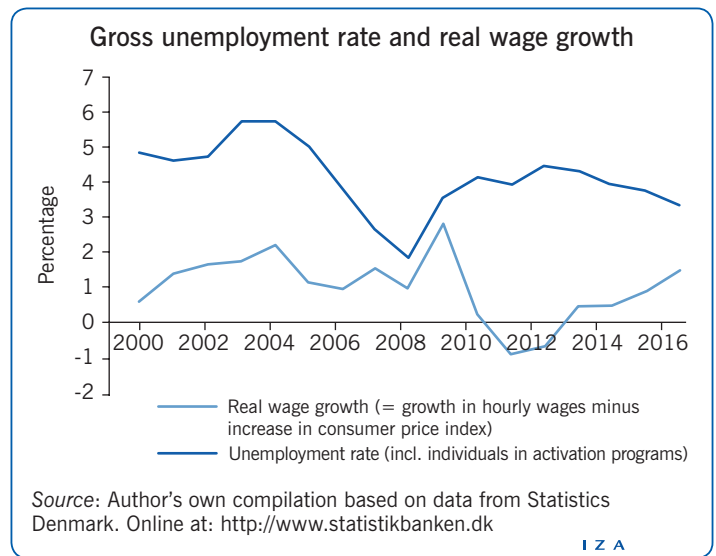
- + Employment rates have recovered since the Great Recession.
- + No significant increase has been observed in long-term unemployment and youth unemployment has remained relatively low.
- + High job turnover rates ensure that most unemployment spells are short, which helped prevent a rise in structural unemployment.
- + Wage adjustment has been flexible and wage competitiveness has recovered since the Great Recession.
- + There are few working poor due to high minimum wages and a compressed wage structure.

##### Cons

- A high share of youth enters the labor market with low qualification levels; this is especially challenging because there are few low-skilled jobs.
- Immigrants from low-income countries have low employment rates.
- Job turnover may be excessively detrimental to human capital accumulation.
- Wage inequality is widening.
- Average working hours are low.

#### AUTHOR'S MAIN MESSAGE

Employment has displayed large changes driven by the business cycle, first increasing up to 2007–2008 and then decreasing sharply. The Danish economy was severely affected by the Great Recession and the associated employment loss was large. But overall, the Danish “flexicurity” model has coped with the crisis. Although many have been affected by unemployment, unemployment spells have been short due to high job turnover rates. This has prevented a sharp increase in long-term unemployment and eased labor market entry for young people. Wage inequality is on the rise, though less than in other countries, and wage dispersion remains relatively low.



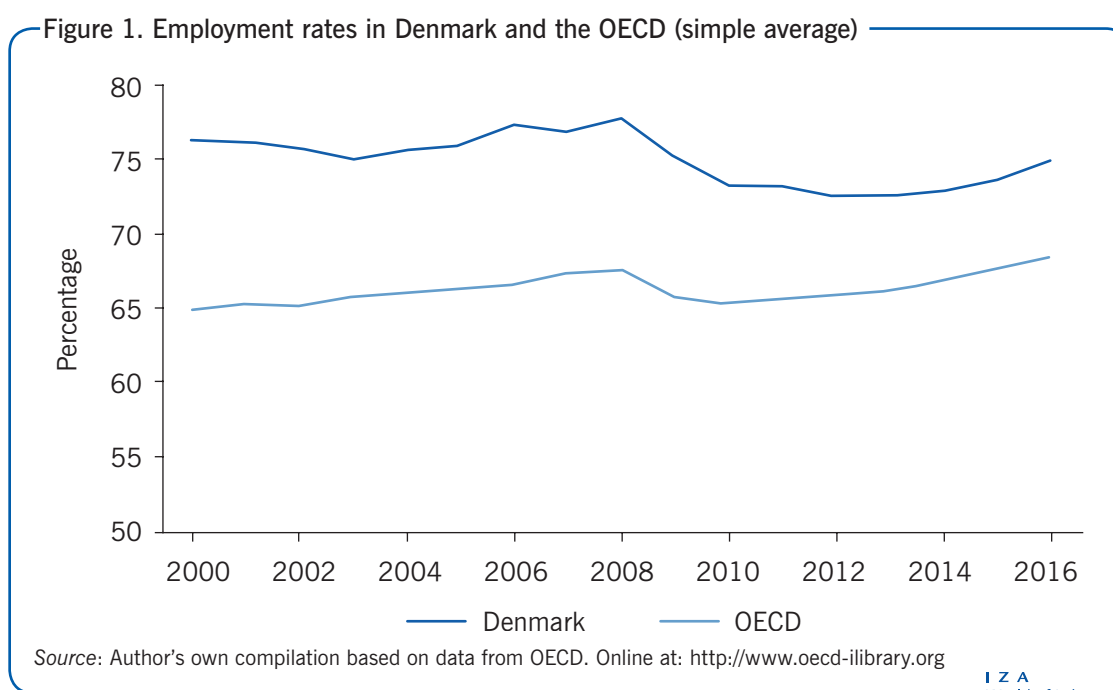
## MOTIVATION

The flexicurity model has been heralded for its ability to reconcile flexibility with social security. The key ingredients are lax employment protection legislation, a relatively generous social safety net, and active labor market policies. This model combines the employers' demand for flexibility with workers' demand for income security, and maintains work incentives via active labor market policies [1]. However, the flexicurity model is no guarantee against a recession, and the question is whether the model can cope with such a large negative shock, remain flexible, and avoid persistent unemployment. The Danish experience shows that the answer is yes. A crucial aspect is the high job turnover rate, which has prevented long-term unemployment from increasing significantly. Global trends also affect the Danish labor market, and wage inequality has been rising, though it remains low. The financial viability of the flexicurity model—and the welfare state more generally—depends critically on maintaining a high employment rate. The social safety net has, in recent years, been overhauled to strengthen labor supply and employment, including reforms targeted at the elderly, the young, and immigrants. The main challenge calling for policy action is the low employment rate for immigrants, and the relatively large share of youth not obtaining a labor market relevant education.

## DISCUSSION OF PROS AND CONS

Denmark has been experiencing a boom–bust pattern. The period prior to the Great Recession had high growth, and unemployment fell below the structural level. There were clear signs of overheating, with a booming housing market and accelerating wage increases. This was an unsustainable situation. Economic growth was already fading when the Great Recession set in, thus bringing the economy into a deep recession.

These developments had huge labor market impacts. Prior to the Great Recession, the employment rate was at a record high (Figure 1), but then plummeted rapidly, and



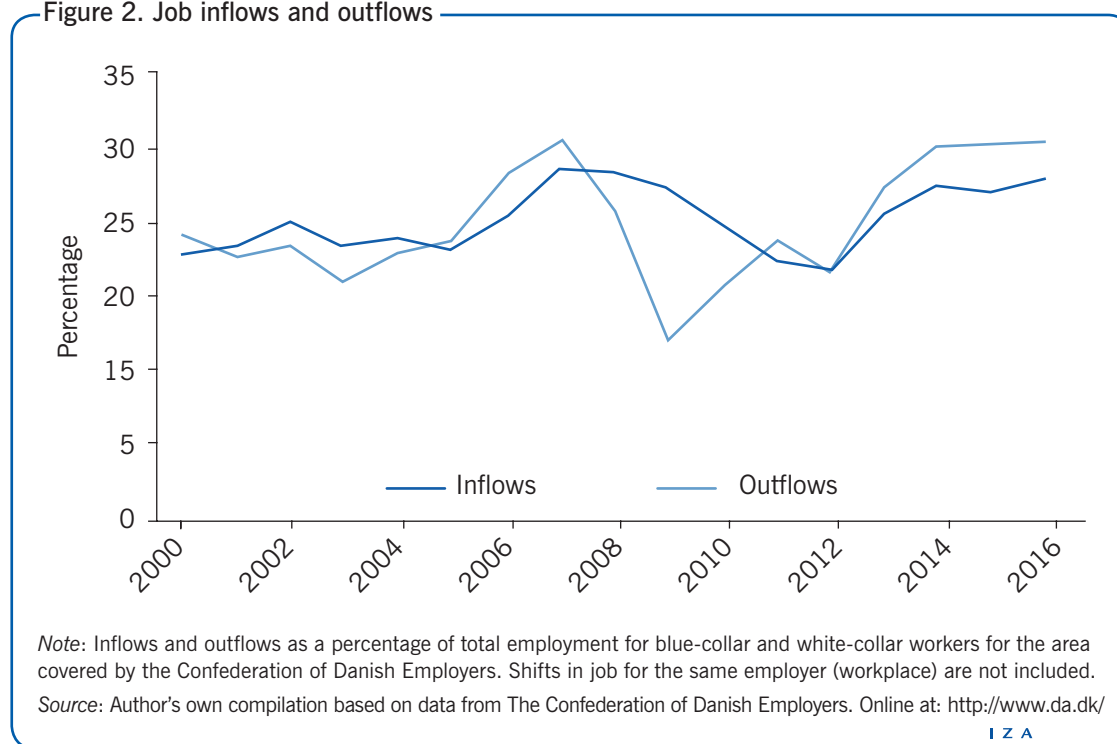
the recovery has been slow. The labor market was thus harder hit and recovered more slowly than in many other countries. Unemployment increased by 2.5 percentage points between 2008 and 2009, and four percentage points between 2008 and 2010, almost double the increase for OECD countries on average, although unemployment remained below the OECD average.

The Danish flexicurity labor market has received considerable attention in recent years, especially for its ability to make a relatively generous social safety net compatible with a high employment rate [1]. The Great Recession seriously tested the model. While the model is no guarantee against business cycle fluctuations, the interesting question is how the model performs in a severe recession. Lax firing rules make it likely that employment will fall drastically when aggregate demand drops, and although the social safety net provides a cushion against large incomes losses for the unemployed, the financial viability of the model is at risk if structural employment decreases. A prolonged decline in employment reduces tax revenues and increases social expenditures, thus putting public finances under strain.

### High turnover rates have benefited Denmark's labor market

A key property of the flexicurity model is a high level of job turnover, implying that the unemployed (as well as the youth entering the labor market) can find a job fairly easily and that most unemployment spells are short. Indeed, the data bear this out, as the general level of job inflows and outflows is high. Although job inflows plummeted as a consequence of the crisis, they soon recovered, and the gross inflow and outflow rates quickly returned to pre-crisis levels (Figure 2).

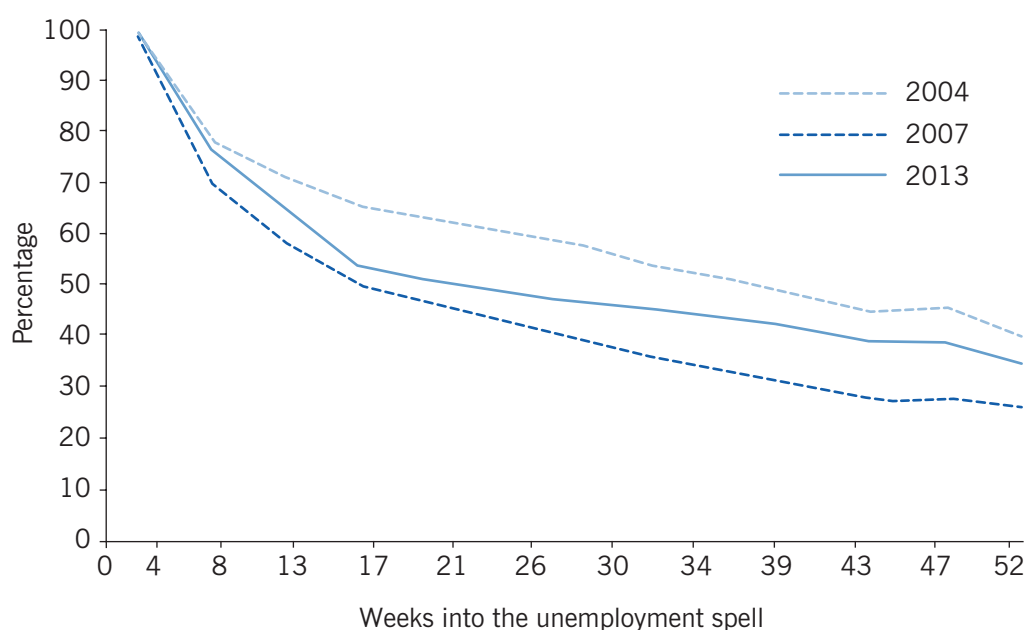
Figure 2. Job inflows and outflows



In the midst of the crisis, exit rates from unemployment were not significantly lower than during, for example, the boom years before the Great Recession. Accordingly, most unemployment spells were short. In Figure 3, the survival function for the unemployed (showing how many unemployed stay unemployed after a given number of weeks) is shown for three different years: 2004, 2007, and 2013. As expected, the survival function is the lowest in 2007 when the economy was booming. More interesting is the fact that already in 2013 the survival function was similar to that for 2004, a year most business cycle forecasters consider close to neutral; that is, when the unemployment rate is at the structural level. While unemployment increased during the recession, unemployment spells remained rather short. The average duration of an unemployment spell among those on unemployment benefits was 17 weeks in 2014 (compared to about 13 weeks during the boom period). Importantly, exits from unemployment into employment since 2014 are also back at normal pre-crisis levels. Hence, while many have been affected by unemployment, most unemployment spells are rather short (in 2013, close to 50% of total unemployment was made up of spells of less than three months).

This high level of turnover in the labor market is also the driving force behind Denmark's comparably low levels of youth and long-term unemployment. Both are about half the EU average, during the crisis years and at other times too. High turnover rates thus effectively work as an implicit work-sharing mechanism. Equal burden sharing is important from a distributional perspective, but it is also of structural importance. The alternative would be longer unemployment spells concentrated among a smaller group of individuals, more long-term unemployed, and a corresponding depreciation of human and social capital. In short, the high turnover rates reduce the negative structural potential of high unemployment.

Figure 3. Gross unemployment—Survival function 2004, 2007, and 2013



Note: The graph shows the share of those who become unemployed (among those with unemployment insurance) in the third quarter of each year who remain unemployed after a given number of weeks. Individuals are included as unemployed irrespective of the social benefits they receive.

Source: Author's own compilation based on data from Jobindsats. Online at: <http://www.jobindsats.dk>

A possible downside of the high job turnover is that it may be detrimental to firm-specific worker training. The high turnover rate makes it difficult for firms to protect eventual investments in their workforce's human capital, particularly if the training is relevant in other firms. This may lead to a suboptimal level of investment in human capital with negative effects on productivity growth.

### Flexible wages facilitate labor market adjustments

Wage developments reflect the boom–bust pattern. When employment increased and unemployment decreased, wage increases (both nominal and real) picked up and wage competitiveness (relative unit labor costs) deteriorated by about 15% over the period 2004–2009. The crisis reversed these wage developments, inducing negative real wage growth, which, in turn, led to a recovery of wage competitiveness (see the illustration on page 1). Wage flexibility—both upward and downward—has thus been relatively high by international comparison, and sluggish wage adjustment is thus not the main reason for the slow recovery of employment. This differs from earlier periods, and can partly be attributed to a move from a highly centralized wage-setting system toward a model of so-called “centralized decentralization.” With centralized decentralization, collective arrangements retain their role as regulators of labor market conditions, while wage determination becomes more decentralized [2].

As in most OECD countries, wage inequality has followed an upward trend (Figure 4), though wage dispersion remains low by international comparison. There are few working poor, and the number did not increase much during the crisis. It is noteworthy that the wage share has remained fairly stable for decades, and there has not been a shift between labor and capital income, as experienced in many other countries.

Figure 4. Earnings inequality



## High employment rates and high share of the population receiving transfers

The labor market situation can be assessed from two angles: one is the share of the working-age population in employment (as in Figure 1), and the other is the share receiving some form of public income support. The employment rate in Denmark is high by international standards, but so is the share of the working-age population receiving public transfers. The latter reflects more extended welfare arrangements, implying that most who are unable to support themselves are entitled to some form of public support. It is an immediate corollary that public finances are very sensitive to the employment rate; higher employment increases tax revenues and reduces social expenditures, and vice versa. In recent years there has been much focus on reducing the share of the working-age population receiving social transfers. All types of social transfers have been overhauled in an attempt to strengthen labor supply and employment. The changes comprise both eligibility criteria and conditions as well as benefit levels. Several aspects of these changes are of particular interest, most notably when it comes to youth, the elderly, and immigrants.

### Youth

The share of youth not in employment, education, or training (NEET) in Denmark is below the OECD average, but it has been on an upward trend. While much has been said about the Danish flexicurity model's ability to attain a low unemployment rate, the issue of youth entering the labor market with weak qualifications is a challenge [3].

The share of cohorts without labor market relevant education is a particular challenge. A key welfare state objective is to reconcile a high employment rate with decent wages (i.e. to have no working poor). The wage structure is compressed and minimum wages are high by international comparison, thus creating a situation in which the qualification requirements to find jobs are also high. This is important for maintaining a relatively equal distribution of income, but it is also a precondition for the financial viability of the welfare model.

The social safety net has recently been reformed to strengthen the incentive for all youth to acquire labor market relevant qualifications. For individuals below the age of 30 (previously the critical age was 25) without an education yielding labor market qualifications, the social assistance benefit level has been reduced such that it does not provide better compensation than study grants. Eligibility for support requires commencement of education, or, alternatively, participation in an activation program.

These changes are aimed at reducing the number of NEETs. The results so far are mixed. On the one hand, some evidence points to positive effects on employment and, in particular, on enrolment in education for the targeted groups. On the other hand, there is no noticeable decline in the share of youth depending on social benefits.

It is premature to reach a conclusion about the full effect of the reform, since it requires not only youth to commence an education but also to complete it successfully. One criticism of the reform is that educational deficiencies should be targeted much earlier than when people are above the age of 20. Most people in the target groups have been enrolled in education before—without completing it—which points to the importance of early intervention (primary school or earlier) as a more effective tool in overcoming educational barriers.



The unemployment insurance scheme has also been reformed, affecting everyone in the labor market. Most important is a reduction of the maximum benefit duration from four to two years. Since this reform was implemented during the crisis, it has been very controversial. The reform also strengthened incentives to accept short-term jobs.

### *The elderly*

While the employment rate in general is high, it has in the past been low for age groups above 55. This has changed in recent years, including during the recession. A number of reforms have tightened possibilities for early retirement and increased the pension age (further changes are still being phased in), which is being indexed to longevity. These changes have been motivated by increasing longevity and healthy aging, as well as the need to ensure fiscal sustainability by increasing the relative share of a lifetime that people are working and thus contributing to the welfare state. One of the arguments against these changes has been that the job possibilities for the elderly are few. From a business cycle perspective, elderly workers are not more exposed to unemployment risk than young cohorts, but they may have a hard time returning to jobs. However, that does not preclude a high structural employment rate for the elderly, which has been the case in Denmark, even during the crisis years. The employment rate for the age group 60–64 has increased from 55% for men and 36% for women in 2008, to 61% and 47%, respectively, in 2015.

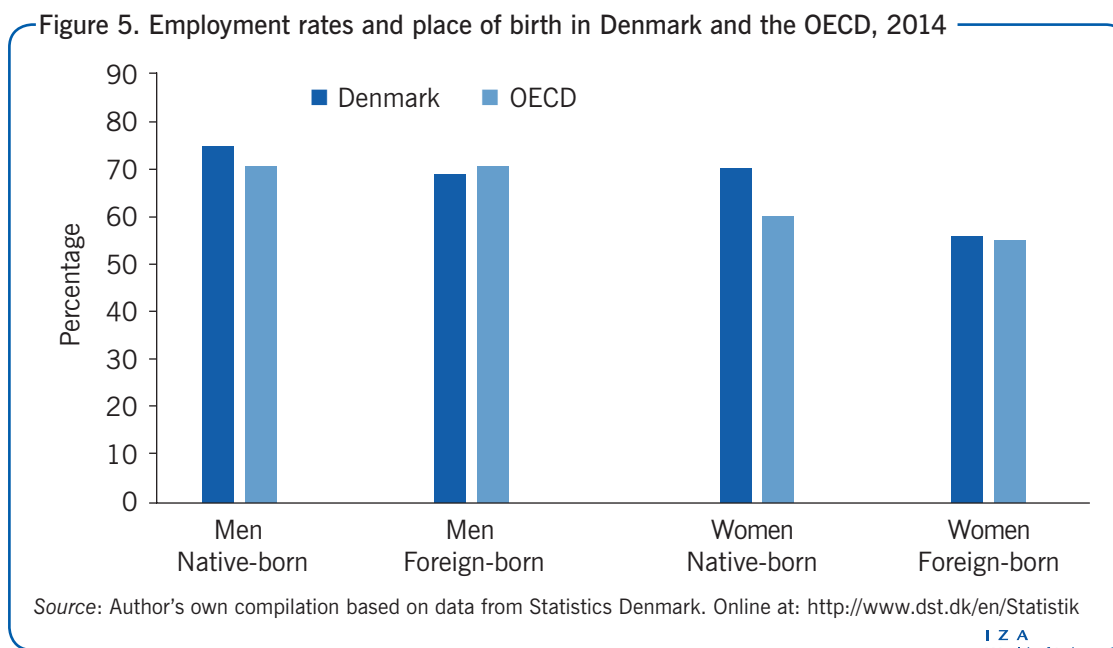
### *Immigration*

Employment rates for immigrants vary considerably depending on an individual's reasons for immigrating (study, work, refugee, family unification) and country of origin [4]. Employment rates for immigrants from low-income countries (mostly refugees and family unifications) can be viewed in two ways, by comparing either levels or gaps relative to other OECD countries, as in Figure 5. The level of employment of such immigrants is not much different from the OECD average. The gap—that is, the difference in the employment rate relative to natives—however, is large, especially for women. This reflects, of course, that employment rates are high in Denmark, so it is more difficult for immigrant employment to reach this level.

The differences in employment rates between natives and immigrants may have numerous explanations. An interesting question is whether the design of the welfare model is an impediment to labor market entry for some immigrants. As noted, the Danish labor market is characterized by relatively high minimum wages and a compressed wage structure, which essentially eliminates working poor as an option. As a consequence, the qualification requirements for finding a job are relatively high, and low-skilled jobs are in short supply. Different cultures and norms for some immigrants with respect to gender roles may also play a role, especially for female employment rates. These effects may be compounded by language barriers, problems related to recognizing foreign educational qualifications, and, possibly, discrimination in the labor market.

The policy debate on immigration has been lively in Denmark, and various policy initiatives have been undertaken, including the tightening of immigration rules. Moreover, some changes in the social safety net have been prompted by immigration issues. The ultimate floor in the social safety net is so-called social assistance, which provides economic support to those unable to support themselves and their family. A residence





principle for eligibility was introduced in 2002, implying that eligibility for social assistance requires residence in Denmark for seven out of the last eight years. In 2006, this was further strengthened by adding an employment criterion requiring ordinary employment (non-subsidized jobs) for an accumulated period of at least 2.5 years within the last eight years. (A further employment criterion was added to target couples, implying lower levels of social assistance for those meeting the above-mentioned criterion to couples with an insufficient employment record.) Individuals not fulfilling these requirements are entitled to a different transfer (i.e. start aid/introduction benefit), equivalent to roughly half the value of social assistance. While these conditions did affect some Danes returning home after extended periods abroad, they had the largest effect on groups of immigrants with low employment rates, who were very likely to receive social assistance before the changes. These initiatives have been debated heatedly. They were introduced in 2002, abolished in 2012, and reintroduced in 2015. The frequent policy changes reflect the sensitivity of the issue and divided political views. However, the trend in recent years has been toward a tightening of the rules on both immigration and access to the social safety net.

## LIMITATIONS AND GAPS

Denmark has recently implemented a number of reforms intended to address issues related to youth labor market participation and immigration. However, it is too early to assess their effects. In particular, it is unclear whether changes in the social safety net will succeed in increasing the education level of youth, thereby raising their employment rate, or how reforms to social assistance eligibility will impact immigrants.

Although employment rates are high, average working hours are low due to many working part-time. It is easier to regulate labor market participation (the extensive margin) via entitlement conditions than it is to regulate working hours (the intensive margin). However, working hour restrictions have been included in the entitlement conditions for social benefits, and tax reforms have been implemented to target working hours.

## SUMMARY AND POLICY ADVICE

The Danish experience shows that even a deep crisis has not been enough to prevent the flexicurity model from working. Despite recent global and national challenges, the balance between flexibility and security has been retained. The model ultimately rests on its financial viability; even during the crisis, Denmark succeeded in launching forward-looking reforms to support high labor supply and employment. This is essential for maintaining the financial balance of the model. However, challenges remain.

Ensuring that a high employment rate can coexist with relatively low wage dispersion is difficult, particularly considering the problems arising from youth and immigrants entering the labor market with weak qualifications. Policymakers are working to address these issues via changes to the social safety net and education programs, though it is too soon to tell whether their efforts will bear fruit. Since most youth do enroll in upper secondary, post-secondary non-tertiary, or tertiary education, the main challenge is to increase completion rates, and earlier intervention may be called for to ensure that the educational objectives can be reached.

### Acknowledgments

The author thanks an anonymous referee and the IZA World of Labor editors for many helpful suggestions on earlier drafts. Previous work of the author contains a larger number of background references for the material presented here and has been used intensively in all major parts of this article Andersen, T. M. “The Danish flexicurity labor market during the Great Recession.” *De Economist* 163:4 (2015): 473–490; Andersen, T. M. “A flexicurity labor market during recession.” *IZA World of Labor* (2015): 173.

### Competing interests

The IZA World of Labor project is committed to the *IZA Guiding Principles of Research Integrity*. The author declares to have observed these principles.

© Torben M. Andersen

## REFERENCES

### Further reading

Andersen, T. M. “The Danish flexicurity labor market during the Great Recession.” *De Economist* 163:4 (2015): 473–490.

Council of Economics Advisors. *Dansk Økonomi—Efteråret 2015 [Danish Economy—Autumn 2015]*. Copenhagen: Council of Economics Advisors, 2015.

EEAG. *The EEAG Report on the European Economy*. Munich: CESifo, 2016.

OECD. *OECD Economic Surveys: Denmark*. Paris: OECD, 2016.

### Key references

- [1] Andersen, T. M., and M. Svarer. “Flexicurity: Labor market performance in Denmark.” *CESifo Economic Studies* 53:3 (2007): 389–429.
- [2] Dahl, C. M., D. Le Mair, and J.R.Munch. “Wage dispersion and decentralization of wage bargaining.” *Journal of Labor Economics* 31:3 (2013): 501–533.
- [3] Maibom, J., M. Rosholm, and M. Svarer. “Can active labour market policies combat youth unemployment?” *Nordic Economic Policy Review* 1 (2014): 215–261.
- [4] Hansen, M. F., M. L. Schultz-Nielsen, and T. Tranæs. *The Impact of Immigrants on Public Finances: A Forecast Analysis for Denmark*. IZA Discussion Paper No. 8844, February 2015.

### Online extras

The **full reference list** for this article is available from:

<http://wol.iza.org/articles/the-danish-labor-market>

View the **evidence map** for this article:

<http://wol.iza.org/articles/the-danish-labor-market/map>