Who Gets Stuck in Their Workplaces? The Role of Matching Factors, between Individual and Job, and Demographics in Predicting Being Locked In

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When a workplace/organization does not fulfill one’s needs and wishes anymore, many individuals change to other workplaces/organizations. However, for some individuals this is not feasible as they perceive a lack of alternatives; they feel stuck in a non-preferred workplace (being locked in), or they may be in the risk zone of becoming locked in. Few studies have investigated the reasons for becoming locked in, and it is the aim of this study to investigate whether matching factors between work and individual and/or demographic factors can predict locked-in positions. Multinomial logistic regression analyses were performed—cross-sectionally and longitudinally (N = 3633–6449)—and showed that mismatch in terms of over-qualification and lack of physical and mental work abilities increased the odds ratios for being in locked-in positions. In contrast, working in relatively higher socioeconomic categories of both manual and non-manual work, commonly demanding higher education (vocational or academic), protected against being locked in. This study contributes to the career research field by studying determinants of disadvantageous career positions, which have been neglected in past research.

Keywords: Locked-in; employability; workplace non-preference; PE fit; matching factors; demographics

Introduction

In the career research field, attention has typically been devoted to job transitions that either concern voluntary transitions between jobs or involuntary job losses (Fouad and Bynner, 2008; Greenhaus and Callanan, 2012). In terms of circumstances that are about remaining in a workplace/organization, it is often implicit that individuals themselves are responsible for such career decisions (Feldman and Ng, 2012) and hence, would leave a workplace when the job is no longer perceived as fulfilling (Fouad and Bynner, 2008). However, not everybody feels that they have control over where to work and can change workplaces whenever they want to. Such a situation, where individuals feel stuck in a workplace they no longer want to work in has been termed ‘being locked in’ (Aronsson, Dallner, and Gustafsson, 2000; Aronsson and Göransson, 1999). Such a position has been found to be associated with poor health (e.g., physical complaints, depressive symptoms) both cross-sectionally (Aronsson et al., 2000; Aronsson and Göransson, 1999; Fahlén et al., 2009; Furåker, 2010) and over time (Canivet et al., 2017; Stengård et al., 2016). However, there are very few studies about being locked in, and those that have been conducted differ in their ways of conceptualizing the phenomenon. Some of these studies build on non-preference toward one’s job, in terms of not wanting to remain in the current workplace in the future (Aronsson et al., 2000; Aronsson and Göransson, 1999; Muhonen, 2010). Other studies have used low employability perceptions (Furåker, 2010; Furåker, Nergaard, and Saloniemi, 2014), in terms of lacking opportunities to find another job in the labor market (Berntson, Näswall, and Sverke, 2008; De Cuyper et al., 2012). However, some recent studies have utilized a combination of those earlier conceptualizations (Fahlén et al., 2009; Stengård et al., 2016), and thus, being locked in is referred to as a combination of: 1) non-preference for the current workplace, and 2) low perceived employability. In the present study, this more recent conceptualization will be used.

An important question is whether there are some factors, related to the individual, that characterize those who are locked in, and whether such factors also can increase the odds for becoming locked in over time. There has been little research (for exceptions, see Bernhard-Oettel et al., 2018; Fahlén et al., 2009) on the potential role of work conditions and the fit of the work conditions to the individual, in relation to being locked in. Also, knowledge is scarce on whether there are demographic variables, such as gender, age, socioeconomic position, living area or family situation (married, having children) that put some individuals at greater risk of becoming locked in.
The aim of this study is twofold: first, to investigate if matching factors are associated with locked-in status cross-sectionally, and with locked-in status changes over time. The second aim is to investigate whether relevant demographic variables is related to locked-in status.

**Person-environment fit**

Being locked in means that the individual is dissatisfied with and wants to leave the current workplace, which suggests that the phenomenon could be understood in light of the person—environment (PE) fit framework. Being locked in thus would imply an unfavorable match between the individual and his/her workplace/organization in a wider sense (as the workplace/organization is regarded as a non-preferred one). Such a mismatch risks persisting because the individual, due to low perceived employability, perceives little chance to escape by leaving the workplace for another job.

According to the PE fit framework (Edwards, 1991; Kristof, 1996) the match between the person and the environment could (besides the needs-supplies dimension) be described along the dimension of demands–abilities fit (Edwards et al., 2006; Kristof, 1996). PE fit could as such be viewed on several levels: vocation (PV fit), organization (PO fit), job (PJ fit), and group (PG fit). In regard to PJ fit, ‘the match between the requirements of the job and the knowledge, skills, and abilities (KSAs) of the employee’ (Maynard, Joseph, and Maynard, 2006: 510) is targeted. In sum, what the job requires of the employee should correspond to what the individual feels he/she can offer the organization. If this mutual exchange is imbalanced, there is a mismatch between the two, which according to two meta-studies has negative implications for job satisfaction and organizational commitment and also increases turnover intentions (Kristof-Brown, Zimmerman, and Johnson, 2005; Oh et al., 2014).

Since being locked in can be regarded as a prevailing general mismatch between the individual and his/her workplace/organization (PE fit)—and all levels of fit (PV, PO, PJ, PG fit) have implications for the overall experienced PE fit (Jansen and Kristof-Brown, 2006)—it would be of value to examine whether some particular matching factors targeting different aspects of (mis)fit at the workplace are related to being locked in, and if those aspects can develop locked-in feelings over time.

Two earlier studies have conducted research in this area and found that mismatch between (quantitative) demand and control as well as effort/reward imbalance have associations with being locked in (Bernhard-Oettel et al., 2018; Fahlén et al., 2009). These studies focused on perceptions of work environment factors such as low control, (too) high demands or imbalance between effort and rewards, and showed that individuals with unfavorable reports on these work environment factors were at greater risk of being or becoming locked-in. Even though mismatch between individual and job may explain such findings, neither of these two studies directly addressed the question of how perceived mismatches between individual and job, for example a mismatch in regard to qualifications or physical/mental work abilities, relate to being locked in. Moreover, it is not known if such mismatch at one point in time may have a scarring effect on the individual, meaning that a disproportion may leave a scar influencing the development of locked-in feelings later on even if this mismatch no longer prevails.

**Being locked in or in the risk zone for becoming locked in**

In addition to being locked in, employees that could be considered as being in the risk zone for becoming locked in at their workplace are of interest (Stengård et al., 2016). Such employees are not yet locked in as they are satisfied with their current workplace at the moment, but they nevertheless risk becoming locked in: they want to change their workplace in the future, but perceive themselves as having low employability. There are different reasons for individuals accepting a job they do not want to remain in long-term. For instance, some individuals might take on a job opportunity as a stepping-stone (de Jong et al., 2009) in order to gain experience that could bring about future advantages and more attractive and secure job opportunities. However, regardless of the reason, if an individual perceives that his/her employability is low and does not improve while being in the job, there is a risk that the individual later on may experience him/herself as being locked in.

One study has indicated that individuals at risk of becoming locked in report poorer health (in terms of depressive symptoms and self-reported health) over time (Stengård et al., 2016), although not as poor as those who are actually locked in. This suggests that individuals in the risk zone—even though satisfied with their work arrangements at that moment—are affected by the knowledge of possible future PE misfit, and this seems to influence how they perceive their present situation (Shipp and Jansen, 2011). Thus, they might start to ruminate about their future careers as an effect of their low employability perceptions (Stengård et al., 2016).

Therefore, we distinguish three categories (locked-in status) in this study, namely being locked in, at risk of becoming locked in, and not being locked in.

**Matching factors as predictors of locked-in status**

Work environment studies have typically focused on the role of various job demands and resources (Bakker and Demerouti, 2007). However, with regard to the locked-in phenomenon, we argue that it is more important to understand how these conditions fit with a person’s own qualifications and abilities—as is consistent with the PE fit theory. In support of this, Jansen and Kristof-Brown (2006) have suggested that the fit between the employees and the working environment on different levels (e.g., vocation, organization, and job) should affect the overall experienced fit, related to the individuals’ preferences for their workplace/organization. One such aspect of fit (on the job level) is whether the person perceives him/herself as having the knowledge/skills needed to match his/her work tasks (Peiró, Sora, and Caballer, 2012; Wittekind, Raeder, and Grote, 2010). A mismatch in this aspect could either reflect the perception of having higher knowledge/skills than the job requires—
over-qualification—or may reflect the perception of lacking knowledge/skills for performing one’s work tasks—under-qualification. Furthermore, as it is well-established that having possibilities to utilize one’s skills at work is beneficial for job satisfaction (cf. skill variety of the job characteristics model [Hackman and Oldham, 1976]), it is also likely that over-qualification may be of importance with regard to locked-in positions. Supporting this notion, individuals who perceive themselves as being overqualified for their jobs have been found to often feel dissatisfied with their current work situation (Johnson and Johnson, 2000; Lobene, Meade, and Pond, 2015). Also, it has been indicated that they are less motivated to perform well (Bolino and Feldman, 2000; Maynard et al., 2006) and they have higher turnover intentions (Maynard et al., 2006). Moreover, when individuals are not utilizing their skills fully, they may, as a consequence, worry about losing their attractiveness on the labor market (Bolino and Feldman, 2000). In fact, it has been indicated that employers are often reluctant to hire individuals they feel are overqualified for the job (Erdogan et al., 2011). For instance, one field experiment showed that being overqualified (having one year of employment clearly below one’s skill and experience in the CV) had a similar scarring effect as one year of unemployment, when applying for a new job (of appropriate level) (Pedulla, 2016).

Furthermore, it has been indicated that overqualified employees to a lower degree develop career-enhancing strategies (Peiró et al., 2012), and consequently, the prospects for transferring to other jobs might decrease even further. Hence, a consequence may be that such individuals might experience/or develop locked-in perceptions. In addition, according to a German study among unemployed people re-entering the labor market, only a minority of those who took a job for which they were overeducated and thus overqualified for was transferred to appropriate employment within the next five years— hence they risk becoming trapped in a job below their qualifications (Voßemer and Schuck, 2016).

The other related scenario of misfit with regard to qualifications—under-qualification—may also be significant with respect to locked-in positions. In this scenario, an underqualified individual may not feel able to meet the work demands put on them, which thus may result in low preferences to remain in the job. Also, opportunities to change to a similar or better job position elsewhere may be limited, especially as lacking knowledge/skills for a position is often combined with the absence of the corresponding appropriate, formal education level (Thompson et al., 2015). On the other hand, lacking skills for performing one’s work tasks may feel inspiring for some individuals as it may be regarded as a chance for development. Empiric evidence is scarce with regard to under-qualification, but one study showed that under-qualification was related to lower perceived employability (Wittekind et al., 2010) and another study found that underqualified individuals received fewer hiring recommendations than overqualified individuals did (Thompson et al., 2015).

Taken together, being overqualified or underqualified might be related to locked-in status. Thus, our first hypotheses are:

**Hypothesis 1:** Over-qualification is positively related to locked-in positions a) cross-sectionally and b) over time.

**Hypothesis 2:** Under-qualification is positively related to locked-in positions a) cross-sectionally and b) over time.

As the level of mental and physical work abilities the worker possesses can be considered part of the individual’s KSAs (Ployhart and Bliese, 2006), we argue—in accordance with other researchers (see e.g., Oakman and Wells, 2016)—that also lack of mental or physical work ability could be viewed in light of the PE fit framework. Work ability fit would thus pertain to PJ fit between work demands and the person’s work abilities. Deterioration, especially in physical work ability, is a natural effect of aging (Ilmarinen, 2001), but work ability is also affected by things such as lifestyle factors, and (physical and mental) work demands (van den Berg et al., 2009). In the modern labor market, the mental pressure on individuals may increase due to, for instance, rapid technical advancements, implying that individuals constantly have to adapt to new requirements and learn new ways of working (Tuomi et al., 2001).

Shortage of physical or mental work ability implies that one’s resources/energy are depleted, which should result in strain (Edwards, 1996). A consequence might be a negative impact on job satisfaction as well as on the workplace preferences. There may also be a negative impact on employability if the individual perceives that due to the lack of work ability, other job alternatives he/she could attain and manage are scarce. Supporting this notion, there is some evidence indicating that advantageous work ability is associated with enjoyment of staying in one’s work (Tuomi et al., 2001) and with perceived employability (Nilsson and Ekberg, 2013). Thus, lack of work ability—physical or mental—might tie the person to the current workplace and/or might result in marginalization at the workplace, which over time may result in a locked-in position. Hence, our next hypotheses are:

**Hypothesis 3:** Physical work ability is positively related to locked-in positions a) cross-sectionally and b) over time.

**Hypothesis 4:** Mental work ability is positively related to locked-in positions a) cross-sectionally and b) over time.

**Associations between demographics and locked-in status**

A second aim of the present study is to investigate whether demographic variables (i.e., gender, age, socioeconomic position, place of residence, marital status, and parental status) are related to locked-in status. Demographic factors could be argued to reflect circumstances that might hinder or facilitate mobility in
the labor market and the possibility to choose workplaces in accordance with preferences. A first important aspect to discuss is gender, and in Sweden, as in many other countries, the labor market is rather gender-segregated, both vertically and horizontally, which means that men and women on a structural level are exposed to different work environments and working conditions (OECD, 2014; Sverke et al., 2016). Hence, one could expect that there might be a difference in the prevalence of locked-in positions between men and women. However, the empirical evidence that possibly could shed some light onto this issue is mixed. For workplace non-preference, Aronsson et al. (2000) found no gender differences, while another study that investigated locked-in status indicated that men more often were locked in than women (Fahlén et al., 2009). However, the latter study targeted a specific, female-dominated workplace, and therefore it is uncertain whether this relationship would be reflected in the labor market overall. Regarding studies targeting gender and employability, some studies did not find any gender differences (Berntson, Sverke, and Marklund, 2006; Silla et al., 2009), while the bulk of studies indicate that men, compared to women, generally perceive themselves as having higher employability (see e.g., De Cuyper et al., 2008; Mäkikangas et al., 2013; Vanhercke et al., 2015). Therefore, we pose the following hypothesis:

Hypothesis 5: Gender is related to locked-in status, such that women are more often found in locked-in positions a) cross-sectionally and b) over time.

Also, over the course of an occupational career, aspirations and abilities are subject to change. Therefore, the risk for becoming locked in may be higher at some periods of one’s career than at others. At the beginning of the career, it is important for the individual to establish him/herself in the labor market. For many young adults it is difficult to get their most preferred position immediately, and as a result, they often start in a situation of PE misfit (Quintini, 2011a), which over time could turn into a locked-in position if things do not develop as expected. Toward the end of the career, older workers could be facing difficulties, for example due to age discrimination (Furåker et al., 2014; Ng and Feldman, 2012), or due to physical limitations (Ilmarinen, 2001). Earlier studies have indicated that older employees are less interested in changing jobs (Aronsson et al., 2000), and generally perceive lower employability (Berntson et al., 2006; Wittekind et al., 2010). The highest levels of employability appear to be among middle-aged employees (De Coen, 2012). However, no age differences could be found in relation to being locked-in when Furåker (2010) utilized a similar conceptualization of being locked-in as used in present article, although without disentangling the risk category from the locked-in category. Hence, the relationship between age and locked-in status is not clear. Based on the finding that employability is highest in middle age, and the arguments that labor market position may be less favorable for both younger and older workers, we pose the following hypothesis:

Hypothesis 6: Age is related to locked-in status, such as employees in their middle age are less often found in locked-in positions compared to younger and older employees.

The link between socioeconomic position (SEP)—traditionally measured by occupational position, education level, or income—and health and mortality is well established (Marmot and Wilkinson, 2006). Occupational position is suggested to be related to different levels of control and differences in overall working conditions, and this inevitably results in health differences (Geyer et al., 2006). This is in line with the ideas of a segmented labor market, for instance the ‘dual labor market’ (Doeringer and Piore, 1971) that suggests that workers could be allocated to either a privileged primary segment or to a secondary segment, reflecting a division in work conditions, wages, and future career prospects (Hanson, Martin, and Tuch, 1987). The primary segment typically consists of a larger number of non-manual workers and more highly educated individuals, which will facilitate job mobility, both externally and internally in the organization (Berntson et al., 2006; Leonardi, 2002). Those in the second segment typically have a lower SEP and are often found in jobs with impaired work environment, low control, and high physical work stressors, which may limit their preferences to remain in these jobs for their entire working life. At the same time, their jobs require fairly little occupational training. Moreover, such jobs are about to disappear due to technology developments and outsourcing of such work to low-income economies (Baruch, 2015; van Eekelen, 2015). Following this line of thinking, lower SEP may be associated with locked-in positions.

The empirical evidence from the field is equivocal. For example, some studies have shown support for the notion that there is a tendency for non-manual workers to perceive higher employability compared to manual workers (Berntson et al., 2006; De Cuyper, Baillien, and De Witte, 2009; Furåker et al., 2014). Another study has found that non-manual workers were more often in non-preferred workplaces and in locked-in positions compared to manual workers (Furåker, 2010). This could indicate that it is too simplistic to divide employees into the broad categories of manual versus non-manual workers, because the two categories comprise both workers with valuable competence and those with little training doing routine work tasks, which translates into dissimilar job conditions and also differences in employability. In fact, Grusky and others (Grusky and Sorensen, 1998; Weeden and Grusky, 2005) have stated that this old division is outdated as society today has different views of different status groups. Consequently, the concept of social class needs to be refined to capture these changes and their effects on outcomes. For instance, skilled manual workers today can earn more money than highly educated employees such as physicians (Mayrhofer, Meyer, and Steyerer, 2007).
Therefore, the present study discriminates between skilled and unskilled manual workers as well as between assistants and higher non-manual workers, and poses the following hypothesis:

**Hypothesis 7:** Socioeconomic position is related to locked-in status, such that unskilled manual workers and assistant non-manual workers (but not skilled manual workers) are more often found in locked-in positions compared to higher non-manual workers a) cross-sectionally and b) over time.

Place of residence (where one lives and works) might be an additional factor related to being locked-in. In less densely populated areas, unemployment rates are usually higher and the labor market less varied than in urban regions, and hence it may be more difficult to get a job (Bernhard-Oettel et al., 2006; Kirschenbaum and Mano-Negrin, 1999). Even though a move to an urban area could mean access to a more prosperous local labor market, in Sweden for example, few people move between municipalities. According to Statistics Sweden’s databases, over the past 10 years, on an annual basis, less than 5% of the population aged between 25 to 64 years moved (Statistics Sweden, 2018), indicating that the local labor market is crucial for perceived employability. Thus, one might assume that urban areas are less associated with locked-in positions compared to other regions. In line with this, earlier studies have shown that living in urban regions can be associated with higher perceived employability (Bernhtson et al., 2006; Furåker et al., 2014; McGuinness and Wooden, 2009), in times of recession as well as economic prosperity (Berntson et al., 2006). Thus, we pose the following hypothesis:

**Hypothesis 8:** Place of residence is related to locked-in status, such that individuals living in urban areas (compared to less populated areas) are less often found in locked-in positions a) cross-sectionally and b) over time.

When building family, one’s prioritizations in relation to working and private life are often impacted, for example, there could be restrictions on attainable working hours and commuting distances, as well as one’s possibilities to move (Bernhard-Oettel and Näswall, 2015; Furåker, 2010). For instance, in Sweden most families are dependent on double incomes and therefore a job opportunity that fits one partner could imply a deficient match to the work arrangements of the other partner, for instance when working hours become incompatible with family duties or if job changes increase commuting time. In a similar vein, it is possible that some parents will stay in or accept job conditions suitable for their private lives, but perhaps less in line with their own career visions (Bernhard-Oettel and Näswall, 2015). As a consequence, having family obligations might decrease opportunities to pick perfect job matches and may take a toll on employability, thus increasing the odds for becoming locked in. However, this has rarely been investigated. A previous study (Furäker et al., 2014) found no association between employability and either marital or parental status, but in this case only employability was tested (not locked-in status). We phrase our final hypothesis as follows:

**Hypothesis 9:** Family situation (in terms of having a partner or child responsibilities) is related to locked-in status, such that individuals having a partner or child responsibilities are more often found in locked-in positions compared to others without partner or child a) cross-sectionally, and b) over time.

**Method**

**Sample and procedure**

Data were used from the 2014 and 2016 waves of the Swedish Longitudinal Occupational Survey of Health (SLOSH). SLOSH is a cohort study with a broad focus on work organization, work environment, and health (Magnusson Hanson et al., 2018). Data were collected via postal questionnaire every second year and all participants were informed of the study purpose and that participation was voluntary. All participants had previously responded to the Swedish Work Environment Surveys (SWES)—a representative data collection of Swedish workers conducted every second year by Statistics Sweden. In the present study, our sample was drawn from those who participated in SWES during either 2007, 2009, or 2011.

To investigate the potential role of work-related variables (first aim), participants comprised employees who answered the SLOSH questionnaire in 2014, and at that time had a permanent contract, were younger than 65, and provided full responses to questions about the work-related variables of interest (N = 6449). Of those meeting this criteria, 57.6% were women, 72.5% were non-manual workers, and the mean age was 49.1 (SD = 9.8) years. Longitudinal analyses were based on individuals who answered the questionnaire in 2014 and 2016, and had a permanent contract at both time points (N = 3898). To investigate the potential role of demographic variables (second aim), a subset of the sample was used containing only those who also had sufficient answers on the demographic variables of interest (N = 5984 for cross-sectional analysis, and N = 3633 for longitudinal analysis).

Ethics approval was provided by the Regional Research Ethics Board in Stockholm.

**Material**

**Independent variables: Matching factors.** Knowledge/skills fit was measured with a single item from Statistics Sweden (1997) reading ‘Comparing your skills and knowledge with the job you do, do you think you are...’ and which contained five answer alternatives (1 = very overqualified, 2 = overqualified in some respects, 3 = just qualified enough, 4 = would need some additional skills, 5 = would need many additional skills). The item was recoded into three categories: 1 = overqualified (1–2), 2 = just qualified...
enough (3), and 3 = underqualified (4–5), where the middle 
alternative served as the reference category. Work 
ability fit (physical and mental) was measured with two 
single items (Magnusson Hanson et al., 2018) modified 
from items from the work ability index (WAI) (see e.g., 
Ilmarinen, Tuomi, and Seitsamo, 2005) ‘How would you 
rate your work ability concerning physical (mental) 
demands?’ both scales having the answer alternatives 
(1 = very good to 5 = very poor). The answer alternatives 
were reduced to three, collapsing 1 with 2 and 4 with 5. 
Demographics. Information about gender (1 = male, 
2 = female) and age were obtained from register data. 
Age was collapsed into the three nominal categories 
commonly used in career research, i.e., (1 = 34 years or 
younger, 2 = 35–49 years, 3 = 50 years or older), where 
the middle-aged group represents being in the ‘mid-
career’ (De Vos, Forrier, Van der Heijden, and De Cuypers, 
2017; van der Heijden, 2001), and serves as a reference 
category. Socioeconomic position (Swedish socioeconomic 
classification) builds on the occupation (as reported in the 
questionnaire), in accordance with information about the 
length of education usually required (Statistics Sweden, 
1984). In the current study employees were categorized 
into four categories; two levels of manual workers a) 
unskilled manual, and b) skilled manual workers, and two 
levels of non-manual workers c) assistant non-manual and 
d) intermediate- and higher non-manual workers. Place of 
residence. Register data for place of residence were placed 
into three categories (1 = urban areas, 2 = semi-urban 
areas, and 3 = sparsely populated areas), where urban areas 
included the three largest cities in Sweden (Stockholm, 
Gothenburg, and Malmö), and semi-urban areas included 
municipalities with more than 90,000 inhabitants. Marital 
status (0 = single, 1 = married/cohabitant) was measured 
with one item. Parental status was measured with the 
item ‘Do you have any children living at home? Include 
children living with you at least half of the time’, and had 
two answer alternatives (0 = no, 1 = yes).

Outcome variables: Workplace non-preference was 
measured with a single item ‘Is the company/workplace 
where you work today the place you wish to work at in 
the future?’ (modified version [Magnusson Hanson et al., 
2018] of Aronsson et al. [2000], containing three answer 
alternatives [1 = yes, 2 = no, but I’m satisfied right now, 
3 = no, I’m dissatisfied with the company/workplace]). 
Perceived employability was measured with a single item 
‘How easy would it be for you to get another, similar job 
without having to change residence?’ (Statistics Sweden, 
2004). The response alternatives ranged from 1 (very 
easy) to 4 (very hard) and 5 (I don’t know), where the last 
alternative (5) was excluded. Thereafter, the index was 
dichotomized, where 0 = (rather/very) high employability, 
1 = (rather/very) low employability. By combining measures 
of workplace non-preference and perceived employability, 
employees were divided into three categories of locked-in 
status. The individuals who perceived themselves to have 
low employability and reported being in a non-preferred 
workplace were categorized as being locked in (LI). 
The individuals who perceived themselves to have low 
employability and reported being in a non-preferred job, 
but were satisfied right now were categorized as being at 
risk of becoming locked in (RLI). All other combinations 
were considered as not being locked in (NLI), see Table 1.

Data analysis
In order to test the study hypotheses, multinomial logistic 
regression analyses were conducted. This approach is 
suitable when the dependent variable (here: locked-in 
status) has more than two categories, and several 
independent variables (categorical and/or continuous) 
are being tested (Denham, 2010; Petrucci, 2009). Odds 
ratios and 95% confidence intervals (CI) are provided. 
Regarding cross-sectional associations between locked-in 
status and the independent variables, two separate 
independent multinomial logistic regression analyses were 
performed, one with matching factors and another with 
demographics as independent variables; both with NLI as 
the reference state. All variables, including locked-in status, 
were measured at Time 1. In the first analysis, matching 
factors were studied, namely knowledge/skills fit and 
work ability fit. In the second analysis demographics were 
studied, including gender, age, socioeconomic position, 
place of residence, marital status, and parental status.

Furthermore, to test our hypotheses with regard to 
longitudinal relations, two multinomial logistic regression 
analyses were performed separately for matching factors 
demographics as independent variables. In the first 
analysis, the matching factors were measured at Time 
1 while the outcome locked-in status was measured at 
Time 2. The baseline value of locked-in status (at Time 1) 
was controlled for as an independent variable. The same 
procedure was repeated for demographics as independent 
variables. The hypotheses are presented in Figure 1.

Results
In Tables 2 and 3 the distributions for all variables can 
be found.

Matching factors
The results from the multinomial logistic regression 
analyses including the matching factors (i.e., 
knowledge/skills fit, and work ability fit) as independent 
variables at Time 1 predicting locked-in status are shown in 
Table 2 (cross-sectional outcomes to the left, longitudinal 
outcomes to the right). All odd ratios for LI/RLI are in 
comparison to NLI.

Table 1: Construction of the locked-in status variable 
(the new values in brackets).

<table>
<thead>
<tr>
<th>Workplace non-preference</th>
<th>Perceived Employability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>High</td>
</tr>
<tr>
<td>1 = Preferred job</td>
<td>NLI (1) NLI (1)</td>
</tr>
<tr>
<td>2 = Non-preferred workplace, but OK for now</td>
<td>RLI (2) NLI (1)</td>
</tr>
<tr>
<td>3 = Non-preferred workplace</td>
<td>LI (3) NLI (1)</td>
</tr>
</tbody>
</table>

LI: being locked in, RLI: at risk of becoming locked in, NLI: not 
locked in.
Cross-sectional results

Including all matching factors measured at Time 1 and the outcome variable locked-in status at Time 1 resulted in a Nagelkerke R² of .06. The fit between knowledge/skills and one's work tasks appeared to matter in accordance with LI/RLI prevalence, since being overqualified—as compared to being just qualified enough—was associated with higher odds ratios for being RLI (1.67, p < 0.001) and LI (3.18, p < 0.001) at Time 1. Thus, hypothesis 1a was supported. Regarding under-qualification, only a small increase in odds ratios for RLI at Time 1 was found (1.22, p < 0.05).

No relation between under-qualification and LI at Time 1 was found. Thus, hypothesis 2a was partly supported. Finally, poor physical work ability was associated with being RLI (1.33, p < 0.001) at Time 1. No relation to LI at Time 1 was found. Hence, hypothesis 3a was partly supported. Finally, poor mental work ability was associated with being RLI (1.50, p < 0.001) and LI (2.72, p < 0.001); thus supporting hypothesis 4a.

Longitudinal results

For the longitudinal model, measuring locked-in status at Time 2 and the matching factors at Time 1 and controlling for locked-in status at baseline (Time 1), the Nagelkerke R² reached 0.25. Regarding fit between knowledge/skills and one's work tasks, being overqualified at Time 1 was still associated with LI at Time 2 (1.80, p < 0.01). However, being overqualified at Time 1 was no longer related to RLI at Time 2. Thus, hypothesis 1b was only partly supported. Being underqualified at Time 1 was not associated with LI/RLI positions at Time 2, and hence, hypothesis 2b was not supported. Turning to work abilities; poor physical work ability increased the odds ratios for LI at Time 2 (1.38, p < 0.05) and poor mental work ability at Time 1 increased the odds ratios for RLI (1.39, p < .01) and LI (1.40, p < 0.05) at Time 2. Thus, hypothesis 3a was partly supported, whereas hypothesis 4a was fully supported.

Demographic variables

The results from the multinomial logistic regression analyses including demographic variables (i.e., gender, age, socioeconomic position, place of residence, marital status, and parental status) at Time 1 and locked-in status are shown in Table 3 (cross-sectional outcomes to the left, longitudinal outcomes to the right). All odds ratios for LI/RLI are in comparison to NLI.

Cross-sectional results

Including all demographics measured at Time 1 and the outcome variable locked-in status measured at Time 1 resulted in a Nagelkerke R² of 0.02. Neither women nor men nor any age category showed increased odds for being LI/RLI at Time 1. Thus, hypotheses 5a and 6 were not supported. Socioeconomic position was associated with LI/RLI positions. Relative to intermediate/higher non-manual workers; unskilled manual workers had higher odds ratios for being RLI (1.61, p < 0.001) and LI (1.61, p < 0.01). Also, assistant non-manual workers had higher odds ratios for being RLI (1.56, p < 0.001).

Figure 1: The study hypotheses. For the cross-sectional hypotheses, both independent and dependent variables are measured at Time 1. For longitudinal hypotheses, the independent variables are measured at Time 1, whereas the dependent variable is measured at Time 2. Note that locked-in status baseline (Time 1) only is controlled for in the analyses of longitudinal relations (the dashed line).
Table 2: Multinomial logistic regressions. Matching factors between work and individuals. Odds ratios and 95% confidence intervals.

<table>
<thead>
<tr>
<th>Knowledge/skills fit</th>
<th>Locked-in status T1 (Cross-sectional)</th>
<th>Locked-in status T2 (Longitudinal, including locked-in status baseline)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RLI</td>
<td>LI</td>
</tr>
<tr>
<td>Overqualified</td>
<td>1.67***</td>
<td>3.18***</td>
</tr>
<tr>
<td>Underqualified</td>
<td>1.22*</td>
<td>1.26</td>
</tr>
<tr>
<td>Well-matched (ref.)</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Work ability fit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poor physical work ability¹</td>
<td>1.33***</td>
<td>1.10</td>
</tr>
<tr>
<td>Poor mental work ability¹</td>
<td>1.50***</td>
<td>2.72***</td>
</tr>
<tr>
<td>Locked-in status baseline</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LI</td>
<td>5.2</td>
<td>6.96***</td>
</tr>
<tr>
<td>RLI</td>
<td>19.8</td>
<td>8.13***</td>
</tr>
<tr>
<td>NLI (ref)</td>
<td>75.1</td>
<td>–</td>
</tr>
<tr>
<td>N</td>
<td>6449</td>
<td>3898</td>
</tr>
</tbody>
</table>

Nagelkerke R² .055 .245

Reference profile: Non-locked-in at Time 2. Locked-in status distribution at Time 2 (LI: 4.7%, RLI: 17.2%, NLI: 78.1%).

*p < 0.05; **p < 0.01; ***p < 0.001; †p < 0.10.

All independent variables at T1 (2014).
Table 3: Multinomial logistic regressions. Demographic factors. Odds ratios and 95% confidence intervals.

<table>
<thead>
<tr>
<th></th>
<th>Locked-in status T1 (Cross-sectional)</th>
<th>Locked-in status T2 (Longitudinal, including locked-in status baseline)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RLI</td>
<td>95% CI</td>
</tr>
<tr>
<td><strong>Gender (female)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Age</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 35 years</td>
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<td></td>
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<tr>
<td>More than 49 years</td>
<td></td>
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</tr>
<tr>
<td>35-49 years (ref.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Socioeconomic position</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unskilled manual</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skilled manual</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assistant non-manual</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium/higher non-manual (ref.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Place of Residence</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban areas</td>
<td></td>
<td></td>
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<tr>
<td>Semi-urban areas</td>
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<td></td>
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<tr>
<td>Sparsely populated areas (ref.)</td>
<td></td>
<td></td>
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<tr>
<td>Family situation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marital status (married/cohabitant)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parental status (children at home)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Locked-in status baseline</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RLI</td>
<td></td>
<td></td>
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<tr>
<td>NLI (ref)</td>
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<td></td>
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<tr>
<td>N</td>
<td></td>
<td></td>
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<tr>
<td>Nagelkerke R2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reference profile: Non-locked-in at Time 2. Locked-in status distribution at Time 2 (LI: 4.6%, RLI: 17.2%, NLI: 78.2%).  
*p < 0.05; **p < 0.01; ***p < 0.001; †p < 0.10.  
All independent variables at T1 (2014).
L1 (1.90, \( p < 0.001 \)) compared to intermediate/higher non-manual workers. No significant difference in L1/RLI prevalence could be found comparing skilled manual workers to intermediate/higher non-manual workers. Taken together, hypothesis 7a was fully supported. Regarding place of residence, living in an urban area decreased the odds ratios for RLI at Time 1 (0.78, \( p < 0.05 \)) compared to living in sparsely populated areas, whereas place of residence did not seem to matter for LI. Thus, hypothesis 8a was only partly supported. Turning to family situation, neither marital nor parental status showed any association with LI at Time 1. Parental status also showed no association with RLI. Contradicting hypothesis 9a, being married/cohabitant was indicated to slightly lower the odds ratios for RLI at Time 1 (0.85, \( p < 0.05 \)). Hence, hypothesis 9a was not supported.

**Longitudinal results**

For the longitudinal model, measuring locked-in status at Time 2 and the demographics at Time 1, controlling for locked-in status at baseline, the Nagelkerke R² reached 0.26. In the longitudinal analyses—contrary to being hypothesized—women had lower odds ratios than men of moving into the LI category at Time 2 (0.62, \( p < 0.01 \)). No such gender difference was found for RLI. Thus, hypothesis 5b was not supported. Regarding the longitudinal associations between socioeconomic position and LI/RLI positions, assistant non-manual workers had higher odds ratios for becoming both RLI (1.50, \( p < 0.01 \)) and LI (2.77, \( p < 0.001 \)) compared to medium/higher non-manual workers, whereas no increased odds ratios were found for unskilled or skilled manual workers. Taken together, hypothesis 7b was partly supported. Living in an urban area compared to living in a sparsely populated area decreased the odds for becoming RLI (0.74, \( p < 0.05 \)) (but not for LI) at Time 2. Hence, hypothesis 8b was only partly supported. Regarding family situation, neither being married/cohabitant nor parental status were risk factors for LI/RLI positions two years later. Thus, hypothesis 9b was not supported. Finally—when controlling for demographics—the odds ratios for an individual in RLI to become LI two years later was 7.82 (\( p < 0.001 \)), and the odds ratios for an individual to stay in LI was 38.84 (\( p < 0.001 \)) compared to a person in NLI.

**Discussion**

The aim of this study was to identify determinants of being locked in at the workplace (LI: being in a non-preferred workplace combined with low perceived employability) or being at risk of becoming locked in at the workplace (RLI: being in non-preferred workplace—yet satisfied for now—combined with low perceived employability). The purpose was twofold; to investigate whether 1) matching factors between the individual and the work (over-qualification, under-qualification, and [physical and mental] work abilities), and 2) demographic variables (gender, age, socioeconomic position, place of residence, marital status, and parental status) were related to locked-in status cross-sectionally, and to change in locked-in status two years later (controlling for locked-in status at baseline).

The results indicate that the investigated matching factors were associated with both LI and RLI positions. In regard to the consequences of imbalance between individuals’ knowledge/skills and their work tasks, being overqualified was found to relate both to LI/RLI positions cross-sectionally and also to LI over time. This is in line with earlier studies, implying that over-qualification is associated with job dissatisfaction (Johnson and Johnson, 2000; Lobene et al., 2015), higher turnover intentions (Maynard et al., 2006), and lower chances of getting other jobs (Erdogan et al., 2011; Pedulla, 2016). Besides employers’ aversion to overqualified job seekers, the difficulty could be aggravated over time as a result of lost edge due to unutilized knowledge and skills as well as not developing career-enhancing strategies enough (Peiró et al., 2012). This may be why being in a job where one is overqualified also seems to increase the odds for becoming LI two years later. In contrast, being underqualified showed only small increased odds ratios for RLI cross-sectionally, and no significant relation to locked-in status longitudinally. Furthermore, no link to LI was found, either cross-sectionally or over time. Hence, the proposition that being underqualified would relate to locked-in status was largely not supported. This finding could indicate that receiving a promotion (or attaining a new job), despite lacking the appropriate knowledge/skills for that position, may not be so troublesome but rather be perceived as a chance for personal growth. Therefore, underqualified employees may choose to remain in the company and/or they may evaluate their employability as high since they previously succeeded in landing a better job than their qualification merited. To summarize, over-qualification seems to be more problematic than under-qualification since over-qualification is indicated to put individuals at danger of being or becoming stuck in their workplace.

Regarding work ability, associations were found with locked-in status for both poor physical and mental work abilities. The results showed that poor physical work ability increased the odds ratios for RLI cross-sectionally. Cross-sectionally, odds ratios were not increased for LI, but over time—when controlling for base level locked-in status—poor physical work ability increased the odds ratios for getting into an LI position. This indicates that poor physical work ability—despite not having an association with LI at Time 1—may act as a scarring factor that over time may get workers into LI. A possible explanation is that people with reduced work ability stay in a job that demands too much and this, over time, takes its toll. Another interpretation is that the individual over time becomes marginalized in the workplace as an effect of the limits in his/her physical work ability. For poor mental work ability, there were increased odds ratios for LI/RLI positions cross-sectionally as well as over time. Hence, poor mental work ability plays a significant role in relation to locked-in status. The results from the present study are in line with earlier research indicating
a relationship between good work ability and high perceived employability (Nilsson and Ekberg, 2013) and a relationship between good work ability and enjoyment of one’s work (Tuomi et al., 2001). Furthermore, the study lends support to the suggestion that poor work ability matters to individuals’ feelings of being, or in the future becoming, stuck in their workplaces.

In summary, with regard to our first aim, our findings show that the match between demands and abilities appears to be of importance for avoiding locked-in positions. Skill mismatch—particularly over-qualification—as well as poor work abilities—physical as well as mental—were factors that contributed to locked-in positions and thus might make individuals feel stuck in their workplace with few perceived possibilities to escape to other employments or improve their current situation. These findings add to earlier studies, which also showed that disproportions at work including high demands and low control, as well as effort/reward imbalance, increase the risk for being locked in (Bernhard-Oettel et al., 2018; Fahlén et al., 2009). In fact, somebody with too little work ability may find a job too (quantitatively) demanding. Therefore, to avoid locked-in positions it seems vital for the employees to continuously survey their match to their job with respect to several factors. More research is needed to understand in more depth how mismatches evolve and when a mismatch in qualification or work ability may turn into a locked-in situation.

**Demographics and locked-in positions**

With respect to the second aim of this study, the results indicated some associations between demographics and locked-in status. Contradicting our hypothesis, men had slightly higher odds ratios of becoming LI over time when the baseline level of locked-in status was controlled for, and cross-sectionally the same direction of an association approached significance. This finding partly mirrored the study by Fahlén et al., (2009) showing that men more often were locked in.

With regard to age, we found no associations with locked-in status. This is in line with an earlier study showing no age differences in regard to locked in (Furåker, 2010). A possible interpretation of this finding is that, despite possible age discrimination in the labor market (Furåker et al., 2014; McGuinness and Wooden, 2009), since often the unemployment rates are higher and the labor market is less varied in such regions (Berntson et al., 2006; Kirschenbaum and Mano-Negrin, 1999), on the other hand, people who choose to live in the countryside may be more willing to stay in their workplaces and more satisfied with doing so (at least for the near future), as they know that they have few alternatives. This would explain why the link between sparsely populated areas and LI was significant, whereas the link to LI was not.

Finally, with regard to family situation, neither marital nor parental status seemed to be of much importance in regard to locked-in status (this is in line with Furåker et al., 2014), as only a small cross-sectional association (in the opposite direction from what was hypothesized) was found between being single and RLI. This might indicate that family life is not what limits careers with regards to driving individuals into locked-in positions, at least not with regard to opportunities on the local labor market.

To sum up our findings on demographics and locked-in positions; it was found to matter in which segment the individual works, since employees in jobs with relatively lower status—in both manual and non-manual work—run a higher risk for being in locked-in positions. Furthermore, living in a sparsely populated area increased the odds for RLI, but interestingly not for LI, both cross-sectionally and over time. An explanation might be that even though individuals in the countryside acknowledge that there are scarce job opportunities for them on the local labor market, many feel content with or settle for what they have, while others perhaps feel that doing so may entail a risk in the long run.

Finally, our findings show, controlling for demographics, that being in locked-in positions increased the odds for being in locked-in positions two years later compared to a person who was not locked in. For the ‘risk category’ the odds ratios for remaining in an RLI position were similar to the odds ratios for them to becoming LI during this time frame. Thus, in accordance with the label placed on them, the risk group really is ‘at risk of becoming locked
in’. For an individual in an LI position, besides high odds of remaining in that position, there were also increased odds for them to become RLI compared to those not being locked in. Hence, these findings suggest that locked-in status may change, and many of these changes will take place within locked-in (LI and RLI) positions.

Methodological considerations and future research
This study has several strengths, mainly because it uses a longitudinal design with a large cohort (generally representative for the Swedish working population) covering many different occupations. Also, the SLOSH study questionnaire covers many different aspects of working life and personal life, enabling us to study a variety of different variables that previously have been discussed as possible determinants of becoming or being locked in. However, as with all research, there are some methodological limitations to our study that the reader should bear in mind. First, locked-in status was constructed from two single items—perceived employability and non-preferred workplace. However, for some variables there is evidence that single items could work as well as multiple-item scales; this applies when a narrow content of a unidimensional construct is targeted (Gilbert and Kelloway, 2014; Wanous, Reichers, and Hudy, 1997). For instance, in several studies perceived employability has been measured with a single item (see e.g., Berntson et al., 2006; De Cuyper et al., 2010; Kirves et al., 2011; Silla, Gracia, and Peiró, 2005) and multiple-item scales of perceived employability often show extraordinary reliability (Berntson et al., 2008; De Cuyper and De Witte, 2011), as well as have been shown being of one-dimension (see e.g., Berntson and Marklund, 2007), which may indicate the measurement of a fairly narrow content. Moreover, since the item used in our study is very similar to items in the multiple-item scales, we argue that a single item could be effectively used for perceived employability. Concerning the non-preference of the workplace variable, it is related to overall job satisfaction which in earlier studies has been demonstrated to work as a single item as well (Dolbier et al., 2005; Fisher, Matthews, and Gibbons, 2016; Wanous et al., 1997). Furthermore, this study contributes to the field by measuring the locked-in concept in more detail than was done in most earlier studies (see e.g., Aronsson et al., 2000; Furåker et al., 2014), since first, we covered the two dimensions of locked-in status (see e.g., Fahlén et al., 2009; Stengård et al., 2016), and second, we distinguished between being locked in and being at risk of becoming locked in (Bernhard-Oettel et al., 2018; Stengård et al., 2016). However, as this conceptualization does not directly ask whether an employee perceives that they are stuck in a non-preferred workplace, one direction for future research would be to test whether subjective perceptions and the classifications of locked-in situations as defined here are congruent. Yet another interesting avenue for future research would be to study the extent to which those who do not prefer their workplace anymore, but feel that there are few available alternatives, also remain with their current employer due to high levels of normative or continuance commitment (Meyer and Allen, 1991). This could be considered in combination with embeddedness that requires too high sacrifices to leave (e.g., due to benefits in the current organization, see Mitchell et al., 2001).

With regard to knowledge/skills fit, we also used a single item, but between over- and under-qualification, which is an improvement from many studies that mostly focused on misfit regardless of direction or only in terms of over-qualification (Erdogan et al., 2011; Thompson et al., 2015). Furthermore, the few studies about mismatch between tasks and skills in terms of under-qualification commonly measure a shortage of formal education in relation to position, as a proxy for skills, which may fail to capture lack of skills (Quintini, 2011a), which we aim to do. Finally, work abilities were also measured with two single items. Since the WAI is very long, several studies have compared it with just a single measure, which seems to work well as a proxy for the whole scale (Ahlström et al., 2010; Jaakselainen et al., 2016; Mokarami et al., 2017). It should be noted that this may not be the case if work ability is measured to predict long-term sick leave/disability pension (Roelen et al., 2014; Schouten et al., 2016), which however, was not the focus of this study.

Finally, it should be noted that the effect sizes (prediction values) of the studied models and the independent variables turned out to be rather small, especially for demographic factors. This is not uncommon in research on demographics and psychological work-related outcomes, such as employability (Berntson et al., 2006) and job insecurity (Näswhall and De Witte, 2003). Nevertheless, this indicates that there are probably a number of other individual and conditional factors that may increase the odds for being/becoming locked in, for example, the factors of needs—supplies fit, or social capital (such as support) should be targeted in future research. Also, personality traits may be of importance in relation to the locked-in phenomenon. One study for instance indicated that there was indeed a relationship between helplessness and being locked in (Stengård et al., 2017), but more studies should focus on trait-like variables, such as change resistance and proactivity, and their possible relationship with being locked-in.

Practical implications
Feeling stuck in one’s workplace is probably unsatisfying, and being in locked-in positions (being locked in or at risk of becoming locked in) has, in fact, been shown to be associated with poor (mental and self-reported) health over time, in earlier studies (Aronsson et al., 2000; Aronsson and Göransson, 1999; Canivet et al., 2017; Fahlén et al., 2009; Furåker, 2010; Stengård et al., 2016). Therefore, it is important to decrease the prevalence of locked in in the labor market. Are there any good ways of bringing this about? This study indicates that the match between demands and abilities is of importance, both in regard to levels of knowledge/skills and physical and mental work abilities. Hence, organizations should strive for balance for their employees by setting requirements that are appropriate based on each individual’s abilities. This is a continuous effort, since workers develop and...
age and hence, their abilities alter. Being overqualified or having deficient mental or physical work ability seems to be especially problematic vis-à-vis locked-in positions, thus it is important to provide employees with work tasks that utilize their knowledge/skills, but do not exceed their work abilities.

Furthermore, education seems to be of significance for avoiding locked-in positions, since working in upper socioeconomic positions in both manual and non-manual work, in this study, was found to be beneficial, and these positions generally require a university or vocational degree. Therefore, society should provide better opportunities for young as well as also older workers to acquire the ‘right’ education, which does not necessarily mean the highest possible education since that may result in over-qualification/over-education if there is no matching factors; hence, N became slightly smaller.

Conclusions
By investigating mismatches—in the realm of the PE fit framework—between demands put on the employee and his/her abilities to meet these, the present study found that such misfits could be detrimental to one’s career, putting individuals at risk of feeling stuck in their current workplace, i.e., being locked in. The mismatches scrutinized in this paper cover knowledge/skills and work ability, where over-qualification as well as both mental and physical work abilities appeared to be most associated with both being locked in (being in a non-preferred workplace combined with low perceived employability) and at risk of becoming locked in (being in a non-preferred workplace—yet satisfied for now—combined with low perceived employability). These relations appeared to exist cross-sectionally and for developments over time.

Furthermore, we examined associations between demographics and locked-in status, and found that socioeconomic position was important as working in the lower segment of both manual and non-manual categories was related to being in locked-in positions. Living in a sparsely populated area was related to being at risk of becoming locked in.

An important contribution of this study is the differentiation between the risk category and being locked in, providing more insights into factors that elevate the risk of becoming locked in. Since being in the risk category, besides being detrimental to health in itself, was found to increase the risk for becoming locked in over time, even factors related to this risk category should be taken seriously to avoid potential development into a ‘real’ locked-in situation.

To conclude, these findings make a further contribution to the career research field, especially to knowledge of career strains, which is a research field that has been neglected in the past. Particularly, we explored the determinants of feeling stuck in one’s workplace. Nevertheless, more research is warranted, in particular in terms of scrutinizing how and why misfit develops and what organizations can do to intervene against such developments.

Notes
1 Sometimes, overqualified equates with overeducated (see e.g., Quintini, 2011a), but often it reflects a combination of education and skills (which we comply to).
2 The analysis with the demographics was performed only with those individuals included in the analysis of matching factors; hence, N became slightly smaller.

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Competing Interests
Two of the co-authors are also editors of this journal, and were therefore removed from all editorial tasks for this paper. Another member of the editorial team has been assigned responsibility of overseeing peer review.

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