

Students with Delayed Transition to Higher Education: An Often Overlooked Group



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Abstract For the higher education system to be socially equitable, it is commonly agreed upon by European higher education policymakers that the student body should mirror the social structure of the population (EHEA, 2020). Many countries have created alternative routes to higher education, allowing students to enrol alternative credentials to complete traditional upper secondary education or to complete secondary education and start higher education later in life. Such measures have also improved the social mix of the student population. This paper takes a closer look at the background of students with delayed transition to higher education, particularly in Austria, Lithuania, and Romania, using the EUROSTUDENT VII microdata set (Cuppen et al., 2023). Data shows that 23% of students in Austria, 11% in Lithuania and 10% in Romania enter higher education two years after leaving school at the earliest (excluding international students). While these groups show specific characteristics in each country, overall, it is less likely for them to study abroad, and they more frequently report financial issues. Furthermore, students with a delayed transition to higher education are less likely to have parents with a university degree. However, they devote more time to their studies and are happier with their academic environment. The paper further shows educational regulations and policy measures in Austria, Lithuania, and Romania that can affect the situation of students with delayed transition.

Keywords Students with delayed transition · Transition to higher education · Eurostudent

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1 Introduction

In less than 20 years, the number of students enrolled in higher education worldwide has more than doubled (Martin & Godonga, 2020). Most European countries agree that for the higher education system to be socially equitable, the population's social structure should be reflected in the student body's demographic makeup (EHEA, 2020). However, a more varied student body also means a wider range of expectations and requests for greater flexibility (Unger & Zaussinger, 2018).

In addition to students who continue their education after completing upper secondary school, other students who wish to pursue higher education include adult learners, returnees, migrants, people with caregiving duties, and people with special needs (Martin & Godonga, 2020). The international "Education 2030" agenda (OECD, 2018) and the Sustainable Development Goal 4 (United Nations, 2015) both acknowledge the need for education systems to be modified to better support flexible learning pathways to promote fairness and lifelong learning. This pushes nations to create well-integrated educational systems that offer learning pathways for every student, including entry and re-entry at all ages and educational levels. However, students with delayed transition or mature students are an explicit target group of the equity policy in hardly any country (Samil, 2018).

To achieve that goal as part of the Bologna Process, higher education institutions should, among other things, remove barriers to the recognition of prior learning (e.g. professional experience) for admission (EHEA, 2015). However, the recognition of prior learning for admission is currently hardly possible in any country. Fulfilling the countries' standard requirement for accessing higher education (e.g., passing the last year of upper secondary school or succeeding at a specific exam¹) later in life is therefore often the only possibility to start without a "regular" secondary school leaving certificate. Data from the EUROSTUDENT VII project shows that the proportion of students with delayed transition varies among countries and currently ranges from 3% in Georgia to 34% in Sweden (see Fig. 1).² At the start of their studies, students with delayed transition are, on average, eight years older than their colleagues with direct transition across all EUROSTUDENT countries. This age difference ranges from 2.2 years in Georgia to 13 years in the Czech Republic, where students with delayed transition are, on average(!), 33 years old at the start of their studies.

¹ E.g. Matura, Abitur, A-Level, Baccalauréat. In Romania, it is called "Diploma de Bacalaureat"; in Lithuania and Austria, it is the Matura.

² Delayed transition is defined here as the earliest start of studies two years after completion of upper secondary school or without such a qualification by non-traditional routes.

Due to its rapid expansion, the higher education sector is now extremely diversified, which is seen in the increased diversity of learners joining the system as well as the wider range of higher education institutions and study programs (Martin & Godonga, 2020). Every country has a distinct socioeconomic, educational, and political setting that can have an impact on students’ pathways to higher education. To foster a flexible learning environment, a suitable combination of policies and steering tools, as well as tailored implementation mechanisms, are needed in higher education institutions.

Examining delayed transition to higher education among students from different countries offers the opportunity to gain a thorough grasp of the variables affecting this occurrence. Taking a closer look at three specific countries, Austria, Lithuania, and Romania, with their different student populations and political measures in place, can help advance our understanding of the variables impacting educational transitions and what this specific group of students might need to be better supported. The following research questions will be at the centre of this study:

- Which students experience delayed transitions?
- Where are students with delayed transition found?
- To what extent do students with delayed transition combine study and work?
- How do students with delayed transition perceive their study situation?

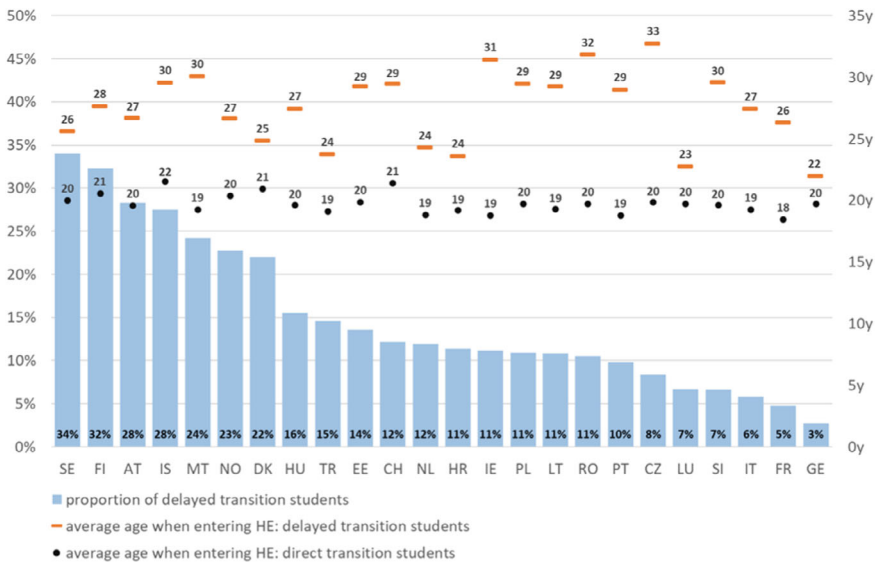


Fig. 1 Proportion of (domestic and international) students with delayed transition AT: Austria; CH: Switzerland; CZ: Czech Republic; DK: Denmark; EE: Estonia; FI: Finland; FR: France; GE: Georgia; HR: Croatia; HU: Hungary; IE: Ireland; IS: Iceland; IT: Italy; LT: Lithuania; LU: Luxembourg; MT: Malta; NL: The Netherlands; NO: Norway; PL: Poland; RO: Romania; SE: Sweden; SI: Slovenia; TR: Turkey. *Source* Database of EUROSTUDENT VII: <https://database.eurostudent.eu/drm/>

- What educational regulations and policy measures are in place in Austria, Lithuania and Romania that constrain or help students with delayed transition?

The underlying methodology is presented before showing and commenting on the results of this research.

2 Methodology

The microdata set utilised in this research stems from the EUROSTUDENT VII project (2018–2021) (Cuppen et al., 2023) and includes all aspects of modern-day student life, including the students' backgrounds (social and demographic), experiences and learning environments (quality, time, budget, and mobility), and living situations (work, resources, expenses, and housing situation). 16 of the 26 participating countries—AT, DK, EE, FI, FR, GE, HU, HR, IE, LT, LU, NL, PO, RO, SE, and SL—provided their microdata for the study.³

Students self-report the data that the EUROSTUDENT project uses. Because of the nature of these data, the EUROSTUDENT dataset contains a substantial quantity of valuable information not found in other sources, such as official statistics. However, it must be kept in mind that the COVID-19 pandemic hit Europe during data collection for EUROSTUDENT VII. While Romania surveyed their students with a reference period during this unusual situation (2020), all the other countries' data included in the used microdata set were collected with a reference period before the pandemic-related constraints (2019).

The study considers **only domestic students**, i.e., those who attended the regular school system (excluding evening classes or schools for adults) in the country of observation, regardless of their citizenship. This is because educational transitions should only be analysed within a national education system (and only for this can proposals for measures be developed if necessary) and because international students may also have other reasons for delayed admission, which may be related to their move abroad, for example. Delayed transition is defined as starting studies at the earliest two years after leaving school. In the analytical sample, 23% of **domestic** students in Austria, 11% in Lithuania and 10% in Romania are classified as students with delayed transition. Pearsons Chi-square and Fisher's Exact tests were used to evaluate the relationship between the variables of interest. A p -value <0.05 was considered significant (*), and <0.001 was considered highly significant (**).

Additionally, guided interviews with policymakers from Austria, Lithuania and Romania were conducted to obtain information on policies in the countries. The interviews (~1 h/interview, two virtually, one in person) have been recorded, transcribed, and thematically analysed (Froschauer & Lueger, 2003). This paper builds on results from the projects "EUROSTUDENT VII" and "Study conditions and motives of

³ The data set is available at FDZ/DZHW free of charge for scientific purposes: <https://metadata.fdz.dzhw.eu/en/data-packages/stu-es7?page=1&size=10&type=surveys>.

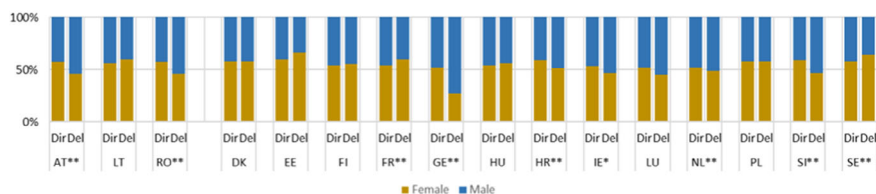


Fig. 2 Proportion of female/male domestic students by direct/delayed transition. *Source* EUROSTUDENT VII Microdata (<https://www.fdz.dzhw.eu/en>)

non-traditional study beginners in Austria, Lithuania and Romania” (commissioned by OEAD).⁴

3 Characteristics of Domestic Students with Delayed Transition

Students’ socioeconomic status, age, gender, and disability are listed as potential impediments to access, participation, and completion of higher education in the EHEA’s social dimension principle and guidelines (EHEA, 2020). Giving the chance to start higher education later in life can potentially ease the situation for groups that would not decide in favour of studying otherwise. A closer look at the data allows to check if students with delayed transitions are different regarding their socioeconomic attributes.

Typically, female students make up the majority of students (Gwosc et al., 2021). While this is also the case in all countries under consideration in this research, a different picture is painted for domestic students with delayed transition in several countries, including Austria and Romania. Here, most domestic students with a delayed transition are male (see Fig. 2). This reflects the fact that students with delayed transition can increasingly be found in male-dominated study fields (see Sect. 4).

The age of students frequently plays a role when it comes to laws and regulations relating to their studies. For instance, it might have an impact on one’s ability to receive free or subsidised health insurance, more general benefits, or public student assistance. Mature students frequently live in different situations, have different histories and experiences, and have more obligations than younger students (such as those related to family or employment). Generally, the regular student population is mostly younger than 25 years old (Gwosc et al., 2021). Students with a delayed transition are, by definition, already older when they start studying than those who experience a direct transition (see Fig. 1). Nevertheless, the remarkably higher percentage of

⁴ See: <https://www.eurostudent.eu/> and <https://www.ihs.ac.at/ru/higher-education-research/projects/studienbedingungen-und-motive-von-nicht-traditionellen-studienanfangerinnen-in-oesterreich-litauen-und-rumaenien/>.

over 30-year-old students among domestic students with delayed transition indicates that in certain countries, this group is far older: There are ten times more domestic students over the age of 30 among students with delayed transition in Slovenia, nine times more in France, 8.4 times more in Lithuania (64% of all students with delayed transition), 5.5 times more in Romania (67%), and 3.5 times more in Austria (46%). In Finland and Luxembourg, around twice the proportion of students with delayed transition are over 30 years old.

In several countries, there is a higher percentage of students with study-limiting impairments among domestic students who experienced a delayed transition (these conditions are typically either chronic physical illnesses or mental health problems). In France and Slovenia, this proportion was even twice as high (see Fig. 3). Romania, on the other hand, has significantly less students with impairments in the group of students with delayed transition.

Research indicates that students who are the first of their generation to pursue higher education typically face more challenges during the transition to higher education, including limited financial resources, fewer support systems, and a lack of basic knowledge about the process (Mehta et al., 2011; Oldfield, 2012). Therefore, it is not surprising that in nearly every EUROSTUDENT country, students from lower educational backgrounds are underrepresented relative to the population (Gwosc et al., 2021).

The proportion of domestic students with delayed transition whose parents completed higher education (ISCED 6–8) is lower than that with direct transition in all countries of this study except Denmark, where the two proportions are roughly equal (see Fig. 4). In Sweden, a quarter fewer people with delayed transition have parents who have completed higher education. In nine countries, including the three countries we are taking a closer look at in this paper, the percentage of people with parents who completed higher education is, at most, half that of people who underwent a direct transition. In Austria, only 18% of the domestic students with delayed transition have a tertiary education background; in Lithuania 26% and 14% in Romania. It is therefore not surprising that this group less frequently indicates that it was always obvious for them to study in higher education one day.

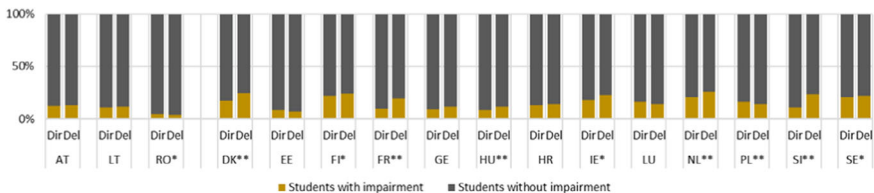


Fig. 3 Proportion of domestic students with/without study-limiting impairment by direct/delayed transition. *Source* EUROSTUDENT VII Microdata (<https://www.fdz.dzhw.eu/en>)

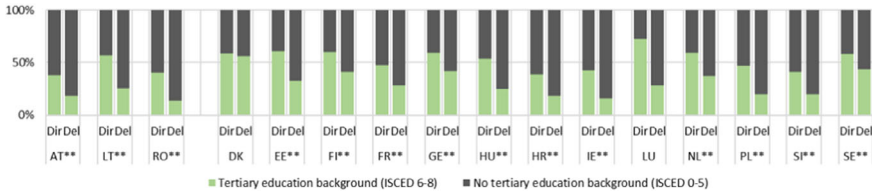


Fig. 4 Proportion of domestic students with/without tertiary education background by direct/delayed transition. *Source* EUROSTUDENT VII Microdata (<https://www.fdz.dzhw.eu/en>)

4 Where to Find Domestic Students with Delayed Transition?

All EUROSTUDENT countries (except Romania and Sweden) have a substantial “non-university” sector with labour market-oriented higher education institutions, often with a specific focus (e.g., on Health subjects (but not Medicine) or Business/Law). It is significantly more likely for students with delayed transition to be found in the non-university sector. Compared to domestic students with direct transition, nearly twice as many with delayed transition (34% of them) study in the non-university sector in Austria, and more than twice as many (63% of them) do so in Lithuania (see Fig. 5). Moreover, parents of students in the non-university sector are typically less well-off than those of students in the university sector.

Enabling graduates to work in specialised professions is one of the key drivers for investments in higher education. For the selection of study fields, numerous patterns, most notably in relation to sex and socioeconomic status, have been noted in previous research (e.g., Georg & Bargel, 2017; Sobieraj & Krämer, 2019). This raises the question of whether there are also differences regarding types of transitions.

In all EUROSTUDENT countries, Business/Law, Health/Welfare and Engineering are the study fields chosen by the largest proportion of students (Gwosc et al., 2021). Taking a closer look at domestic students with delayed transition, one can see that the popular study field of Business/Law is significantly more frequently selected by them in several countries, including Austria (1.1 times), Lithuania (1.3 times) and Romania (1.3 times). Health/Welfare is selected 1.3 times more frequently

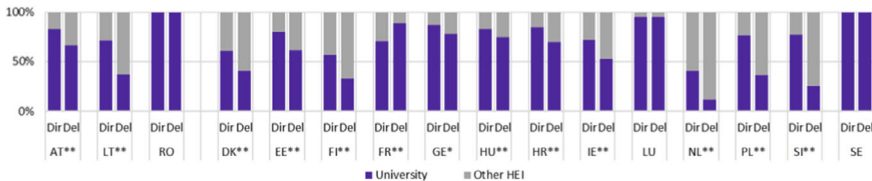


Fig. 5 Proportion of domestic students from universities/other higher education institutions by direct/delayed transition. *Source* EUROSTUDENT VII Microdata (<https://www.fdz.dzhw.eu/en>)

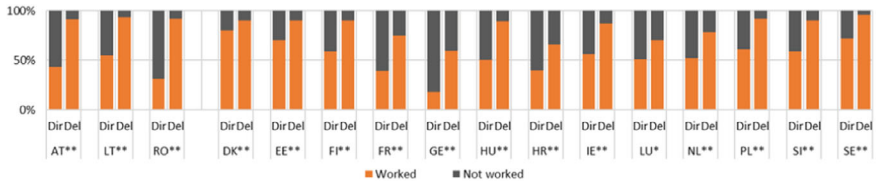


Fig. 6 Proportion of domestic students who worked/did not work before studying by direct/delayed transition. *Source* EUROSTUDENT VII Microdata (<https://www.fdz.dzhw.eu/en>)

by students with delayed transition in Lithuania but, in contrast, less frequently in Romania (0.7 times).

In seven of the 16 countries, domestic students with delayed transition chose the study field of Education significantly more often than students with direct transition. In Lithuania, this field is 3.2 times more often chosen by students with delayed transition, and in Romania, 1.8 times. Hardly studied by students with delayed transition in Lithuania and Romania is Information and Communications Technology (ICT). However, it is 1.2 times more popular among this group in Austria. This may be due to the fact that in this country, the range of ICT programmes is being continuously expanded, specifically for working professionals. But in general, the choice of study field in Austria differs very little between students with a direct or delayed transition.

Another aspect is that students with a delayed transition are less likely to study abroad temporarily (e.g., ERASMUS+). They more often see financial difficulties, the loss of their paid employment, and separation from their partner or children as the main obstacles to studying abroad.

5 Working Experience of Domestic Students with Delayed Transition

Starting to study later in life often goes along with gaining some work experience before (Mishra, 2016). In Austria, Lithuania, Romania and nearly all other countries under study, about 90% of the domestic students with delayed transition had worked before they started higher education (see Fig. 6).

Working then often continues while studying, which, besides creating an income, can increase the chances of getting a job after graduation and even help secure higher-paying positions (Irwin et al., 2019; Jackson et al., 2018). While part-time work lengthens study time somewhat, it greatly shortens the time needed to find a job after graduation if the employment is connected to the study content (Franzen et al., 2002). Some students decide to work alongside because they are performing exceptionally well in their studies, and others choose to begin working because they are not sure they will be able to finish their higher education (Moulin, 2013). In most countries, including Austria, Lithuania and Romania, the proportion of students

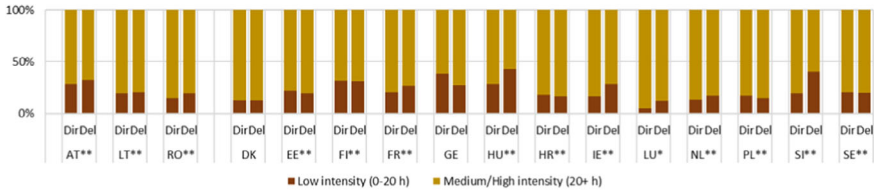


Fig. 7 Proportion of domestic students who study 20 h or more than 20 h/week with direct/delayed transition. *Source* EUROSTUDENT VII Microdata (<https://www.fdz.dzhw.eu/en>)

working more than 20 h/week is around twice as high (or more) among domestic students with delayed transition.

Sometimes, education is rather seen as an addition to paid employment than the other way around, and the money earned can be required for financing students’ expected lifestyles (Beerens et al., 2011). In Austria, Lithuania, and Romania, the proportion of students who proclaim they depend on self-earned money is twice as high among domestic students with delayed transition who perceive themselves foremost as workers studying aside. However, it is the students with delayed transition who are more likely to experience financial difficulties. In Austria, the proportion of domestic students facing those troubles is 19, in Lithuania 29 and in Romania 10 percentage points higher than among students with direct transition.

Having a restricted overall time budget, working students naturally have less time to devote to their studies (Callender et al., 2015; Creed et al., 2015; Keute, 2017; Masevičiūtė et al., 2018; Moulin et al., 2013). The percentage of students with delayed transition who study at low intensity (up to 20 h/week for courses and independent study) is significantly higher than the proportion among direct transition students in nine countries, including Austria, Lithuania, and Romania, with proportions of 32%, 21% and 19% (see Fig. 7).

Furthermore, they less often indicate a lack of motivation for their studies as a challenge (34% direct vs. 9% delayed in Lithuania; 32% vs. 7% in Romania⁵).

6 Perceived Study Quality of Domestic Students with Delayed Transition

The growing diversity in student populations has led to a renewed emphasis on teaching standards (Wolter, 2015). Clear instructions have proven central for grades, persistence in learning, and well-being of students (Roksa et al., 2017). The quality of higher education also became a focal point of the Bologna Process with the Berlin Communiqué (EHEA, 2003), and the Bucharest Communiqué (EHEA, 2012) adopted norms and principles for quality assurance.

⁵ There is no information on Austria since this question module has not been part of the Austrian questionnaire.

Compared to students who started higher education immediately, domestic students who have experienced delayed transition evaluated their teachers' abilities and the teacher-student interaction far more favourably. In Romania, particularly, students with delayed transition find that teachers can explain well. In a similar vein, students with delayed transition frequently indicate that their teachers listen to them and encourage them to work hard; this is particularly true for Lithuania and Romania. This goes hand in hand with this group typically recommending their study program more frequently in the three countries. Generally, compared to students with direct transfer, domestic students with delayed transition rank several aspects of their study environment as more satisfactory. In Austria, this could be due to the fact that special programmes are offered to working people; in Lithuania, the increased support at non-universities might be the reason for this. Furthermore, it can be speculated that due to their older age, students with delayed transition have a different basis for communicating with teachers and more experience of working in a self-structured way.

Not only is the interaction with teachers relevant for the outcome, but research further shows that students who integrate better with their peers are more driven and persistent (Garza et al., 2021; Hausmann et al., 2007; Noyens et al., 2019; Snyder, 2017; Tinto, 2017). Domestic students with delayed transition feel less alone from their peers in Lithuania and Romania, while in Austria, there is hardly any difference between the two groups. However, students with delayed transitions often rate their own study performance as equal to that of their peers, whereas students with direct transitions more often believe that they are better performing than their peers in Austria, Lithuania, and Romania.

7 Educational Regulations and Policy Measures in Austria, Lithuania, and Romania

In this section, the three countries that are the focus of this research are presented in more detail, showing what opportunities exist to start a degree programme later in life and what political priorities are set in the countries that can have an influence on the decision to study later in life as well as the perceived study quality.

7.1 Austria

In Austria, 23% of domestic students started higher education at the earliest two years after leaving upper secondary school. Besides regular admission, there are three alternative options to start tertiary education in Austria. The "Berufsreifeprüfung" is a fully-fledged Matura (second-chance education) that entitles you to study any subject

at any university in Austria and the European Union. The university entrance qualification examination (“Studienberechtigungsprüfung”) allows you to study selected subjects that correspond to your professional background. At the Universities of Applied Sciences, it is possible to study without a Matura but with a vocational qualification if additional examinations (usually German, English, Maths) are taken.

In Austria, some policies support mature students and those with prior work experience. For individuals who have worked at least four years (earning money above a certain threshold) and who are no older than 32 years old at the start of their studies a study grant, independent from parental income, of at least 943 €/month is available. Over the past few years, the maximum age to receive this support has been progressively raised.⁶ Of all students with delayed transition, 28% receive such a scholarship; among beginners with delayed transition, the figure is even 34%.

While part-time studies are an option to encourage (older) people who are working to start higher education in several countries, there is no established program for part-time study in Austria.⁷ However, it is possible to study according to individual semester plans at many higher education institutions (especially public universities). As a result, many students acquire significantly fewer than the 60 ECTS credits per academic year, which extends the duration of their studies accordingly (and can lead to the loss of student funding and to the obligation to pay tuition fees). Thus, effectively, many students in Austria study part-time in full-time programmes.

There are very few 100% online programmes (including a very popular law programme). However, there is a cooperation with the Distance-Learning University in Hagen (Germany), for which there is an examination centre in each federal state.

7.2 *Lithuania*

11% of the domestic students in Lithuania can be classified as students with delayed transition. In order to gain entry into the Lithuanian higher education system, candidates must pass at least one state Matura exam and achieve minimal learning outcomes, as determined by performance outcomes, entrance exams, and additional standards set by the higher education institution (Eurydice, 2023a). Prior learning is sometimes recognised as credits for a qualification but cannot be used for admission, which makes it harder to access higher education later in life.

Lithuania presently has a voucher program in existence that enables some students to get free education. The government is planning to introduce a measure in 2024 that might encourage more people to start studying later in life. 10% of the vouchers

⁶ Up to the age of 37 at the start of studies, the study grant can be drawn if an additional year of self-support is proven for each age over 32.

⁷ Universities of Applied Sciences offer “part-time” programmes that require fewer hours per week but last more weeks per year and thus involve the same annual workload as full-time studies and are therefore also classified as such.

will be awarded to students in each study field who have worked for a few years, encouraging them to continue their education later in life.

In Lithuania, part-time study programmes exist officially. Their duration is 1.5 times longer than a full-time program, allowing students to pay the same tuition for the entire program but with a reduced workload each semester. However, (especially since the start of the COVID-19 pandemic) more programs now offer night-time study, blocked classrooms, and partially distance learning (at least 5% of instruction must be in-person). For this reason, fewer part-time study programs have been offered recently. By making their programs more flexible, many higher education institutions aim to attract non-traditional students, such as those who entered the field later than usual or who work part-time in addition to their studies.

7.3 Romania

In Romania, 10% of the domestic students had a delayed transition to higher education. However, as in Lithuania, it is not possible to access higher education without an upper secondary certificate (Eurydice, 2023b), limiting the possibilities to study later in life. While there has been some talk about microcredits, and the 2015–2020 National Strategy for Tertiary Education contains some commitments to flexibility, there is currently no prior learning assessment and recognition system in place in Romania, which would make it easier for students to enrol in alternate pathways to higher education (Dervis et al., 2022).

Recently, Romania passed new education regulations that include a nationwide initiative to address higher education dropout rates, with a particular emphasis on students who experience a delayed transition. Prior research conducted in the nation revealed that older students (primarily those with delayed transitions) have higher dropout rates than younger students.

Although they are not very prevalent, part-time study programs are also available in Romania. Higher education establishments are free to set their own tuition rates, while they typically give reduced rates (per semester) for courses taken part-time, which take longer to complete. There is no financial help available for working students in Romania because they are not a defined target group for political measures. However, some universities try to assist working students by providing evening classes, for example. Like in Lithuania, full online programs are prohibited; however, blended learning options with some in-person lectures are permitted.

8 Summary: Domestic Students with a Delayed Transition in Europe, Particularly in Austria, Lithuania, and Romania

Students with delayed transition are a group that has received little attention so far and is often not the target of political measures. Nevertheless, they sometimes represent a remarkable proportion of all domestic students: in the EUROSTUDENT countries, an average of 13% (with a standardised number of cases per country, i.e., regardless of the population or sample size), in Austria 23%, in Lithuania 11%, and in Romania 10%.

A logistic regression (direct vs delayed transition), which cannot be presented in detail here for reasons of space, shows across all EUROSTUDENT countries⁸ on which microdata are accessible ($R^2 = 0.480$) that regular employment before starting university (min 20 h/week for at least one year), older age (especially over 25), and the rejection of the statement that “it was always clear I would study in higher education one day” provide the highest explanatory contributions for those who study with delayed transfer. A higher educational background of the parents, on the other hand, has a significantly negative effect (i.e., the higher the parents are educated, the lower the probability of studying with a delayed transition). The fields of study (reference = Humanities) Education, Business/Law, Health and Services have a weakly positive effect, while Sciences has a negative effect. Gender and the other fields of study have no significant effect. The extent of employment only has a bivariate positive effect; in the multivariate model, this becomes negative.

This “European model” can also be seen across the board in our three countries of comparison, particularly age and work experience before studying. In addition, in Austria ($R^2 = 0.631$), being female has a significantly lower effect on studying with delayed transition, as well as (compared to Humanities) the fields of Education, Business/Law, Sciences, ICT, and Engineering, while all other fields of study have no significant effect. The parents’ educational background also has no significant effect. In Lithuania ($R^2 = 0.573$), Agriculture/Fishery/Veterinary medicine has a strong positive effect, and tertiary background of parents has a strong negative effect, as well as Social Sciences and Engineering. Gender has no significant effect. In Romania ($R^2 = 0.482$), the educational background of the parents also plays a strongly negative role. The smaller the extent of studying, the more likely someone is to study with a delayed transition, and being male also has a very small positive effect. However, no field of study has a significant effect (Table 1).

Even though in EUROSTUDENT delayed is defined as “only” at least two years after the regular upper secondary school leaving certificate, most domestic students with delayed transfer are significantly older. In Austria, 80% are over 25 years old (46% over 30 years old), in Lithuania, 88% (over 30 y: 64%) and in Romania

⁸ Number of cases per country standardised in order to compensate for the different population and sample sizes.

Table 1 Logistic regression: probability of being a domestic student with delayed transition

	EUROSTUDENT	Austria	Lithuania	Romania
Work experience before studying	↑↑	↑↑	↑↑	↑↑
Older age	↑↑	↑↑	↑↑	↑↑
“It was always clear I would study in higher education one day”	↓↓	↓↓	↓↓	↓↓
Female		↓		↘
Higher educational background of the parents	↓↓		↓↓	↓↓
Extent of employment	↘	↘		
Extent of studying	↘	↘		↘
Fields of study (Ref: humanities)				
Education	↗	↓		
Social sciences			↓↓	
Business and law	↗	↓		
Sciences	↓	↓		
ICT		↓		
Engineering		↓	↓↓	
Agriculture/fishery/veterinary medicine			↑↑	
Health and welfare	↗			
Services	↗			
Financial difficulties		↗		
Impairment	↗			
Not living with parents	↗			
R^2	0.480	0.631	0.573	0.482

Source EUROSTUDENT VII Microdata (<https://www.fdz.dzhw.eu/en>)

86% (over 30 y: 67%). It is therefore not surprising that in the multivariate analysis, biographical characteristics (age, employment before starting university, self-assessment that it was *not* always clear to study one day and, except for Austria, the educational background of the parents) show the greatest effects.⁹ Gender and the

⁹ In Austria, students with delayed transition are roughly made up of two groups: (1) those who have not completed upper secondary education in the regular school system, have often completed vocational training (“apprenticeship”) and come to university via the 2nd educational pathway; and (2) those who have completed five years of upper secondary vocational education (with a Matura), have then often entered the labour market, and later go on to study. Their parents often have a higher education degree (albeit less often than in the academic upper secondary schools). Therefore, parental education differs less between students with direct and delayed transition than in other countries—at least in a multivariate model in which everyone has the same age, work experience, gender, and field of study when parental education is compared.

positive or negative demand for individual fields of study are also added in individual countries. However, numerous other variables do not show any significant effects.

Not included in the model are non-traditional higher education admissions (because they are implicitly part of the definition of delayed) and non-university higher education sectors because they do not exist in all countries. But both non-traditional approaches and a preference for the non-university sector are visible in all countries where this is possible or exists. It is assumed that because students with delayed transition often are already in professional life, they tend to choose a career-orientated education, which increasingly takes place at non-universities. In addition, some subjects (which are predominantly found at universities) are less likely to be started at an older age due to their longer duration (e.g., medicine). In addition, non-universities are generally more widely distributed throughout the country and, therefore, easier to access for working students.

Of the three countries, only Austria (the country with the highest proportion of students with delayed transition) offers **alternative options to standard admission** to higher education. While **prior learning** (e.g., working experience) cannot be used (or seldomly be used in Austria) for admission to higher education in the three countries, it is sometimes possible to get professional experience recognised for credits of single courses.

In none of the three countries are there comprehensive (financial) measures in place directly targeting students with delayed transition. However, in Austria, there are policies specifically for older students and those who have worked before. For the latter, Lithuania plans to offer **particular funding** as well. In Romania, there is a focus on decreasing dropout rates, also considering students with delayed transition.

Since many students with delayed transition are working, **offering greater flexibility** for their studies can benefit their situation. Official **part-time programmes** are available in Lithuania and Romania. With no (complete) distance learning in place, students in all three countries have benefited from the fact that **online programmes**—or at least individual online courses within a degree programme—have been expanded during the COVID-19 pandemic.

In any case, it is valuable to further research the group of students with delayed transition and, if necessary, develop political measures to support them, as they have special requirements, but also increase their numbers in terms of lifelong learning. On the other hand, further research should also be conducted into why these people did not or could not come directly to university but first had to take a “diversion” via the labour market.

References

- Beerkens, M., Mägi, E., & Lill, L. (2011). University studies as a side job: Causes and consequences of massive student employment in Estonia. *Higher Education*, 61(6), 679–692.
- Callender, C., & Little, B. (2015). The hidden benefits of part-time higher education study to working practices: Is there a case for making them more visible? *Journal of Education and Work*, 28(3), 250–272.

- Creed, P. A., French, J., & Hood, M. (2015). Working while studying at university: The relationship between work benefits and demands and engagement and well-being. *Journal of Vocational Behavior*, 86, 48–57.
- Cuppen, J., Muja, A., Hauschildt, K., Daniel, A., Buck, D., Mandl, S., & Unger, M. (2023). Eurostudent VII. Data Collection: 2019–2021. Version: 3.1.0. Data Package Access Way: SUF: Download. Hanover: FDZ-DZHW. Data Curation: Daniel, A., Buck, D., & Wallis, M. Retrieved from <https://doi.org/10.21249/DZHW:es7:3.1.0>
- Dervis, O. A., Trifan, E., & Jitaru, G. (2022). The socio-economic challenges in access to Romanian higher education. Student perception and funding policy directions. In A. Curaj, J. Salmi, & C.M. Háj (Eds.), *Higher education in Romania: Overcoming challenges and embracing opportunities*. Springer. https://doi.org/10.1007/978-3-030-94496-4_5
- EHEA. (2003). Realising the European Higher Education Area Communiqué of the conference of ministers responsible for higher education. Retrieved from https://www.ehea.info/Upload/document/ministerial_declarations/2003_Berlin_Communique_English_577284.pdf
- EHEA. (2012). Making the most of our potential: Consolidating the European Higher Education Area. *Bucharest Communiqué*. Retrieved from https://www.ehea.info/Upload/document/ministerial_declarations/Bucharest_Communique_2012_610673.pdf
- EHEA. (2015). *Yerevan Communiqué*. Retrieved from https://ehea.info/Upload/document/ministerial_declarations/YerevanCommuniqueFinal_613707.pdf
- EHEA. (2020). *Rome Ministerial Communiqué*. Retrieved from https://ehea.info/Upload/Rome_Ministerial_Communique_Annex_II.pdf
- Eurydice. (2023a). Key features of the education system. *Lithuania*. Retrieved from <https://eurydice.eacea.ec.europa.eu/national-education-systems/lithuania/overview>
- Eurydice. (2023b). Key features of the education system. *Romania*. Retrieved from <https://eurydice.eacea.ec.europa.eu/national-education-systems/romania/higher-education>
- Franzen, A., & Hecken, A. (2002). Studienmotivation, Erwerbspartizipation und der Einstieg in den Arbeitsmarkt. *KZfSS Kölner Zeitschrift für Soziologie und Sozialpsychologie*, 54(4), 733–752.
- Froschauer, U., & Lueger, M. (2003). *Das qualitative Interview: Zur Praxis interpretativer analyse sozialer systeme*. Facultas.
- Garza, T., Huerta, M., García, H. A., & Lau, J. (2021). Exploring sense of belonging, socioacademic integrative moments, and learning communities related to ELs' persistence based on reenrollment decisions in community colleges. *Community College Review*, 49(1), 30–51.
- Georg, W., & Bargel, E. (2017). Parental qualifications as determinants of university entrance and choice of a field of study in Germany. *European Journal of Higher Education*, 7(1), 78–95.
- Gwosc, C., Hauschildt, K., Wartenbergh-Cras, F., & Schirmer, H. (2021). Social and economic conditions of student life in Europe: Eurostudent VII 2018–2021. Synopsis of Indicators. WBV Media GmbH & Company KG.
- Hausmann, L. R. M., Shofield, J. W., & Woods, R. L. (2007). Sense of belonging as a predictor of intentions to persist among African-American and white first year college students. *Research in Higher Education*. Advance Online Publication. <https://doi.org/10.1007/s11162-007-9052-9>
- Irwin, A., Nordmann, E., & Simms, K. (2019). Stakeholder perception of student employability: Does the duration, type and location of work experience matter? *Higher Education*, 78(5), 761–781.
- Jackson, C., Gardner, M., & Lloyd, D. (2018). 2017 Universities Australia student finances survey. Universities Australia. Retrieved from: <https://universitiesaustralia.edu.au/wp-content/uploads/2019/06/180713-2017-UA-Student-Finance-Survey-Report.pdf>
- Keute, A.-L. (2017). Too much time spent on paid work leads to a reduction in study time. Retrieved from: <https://www.ssb.no/en/utdanning/artikler-og-publikasjoner/too-much-time-spent-on-paid-work-leads-to-a-reduction-in-study-time>
- Martin, M., & Godonoga, A. (2020). SDG 4—Policies for flexible learning pathways in higher education taking stock of good practices internationally. Retrieved from: <http://www.iiep.unesco.org/en/publication/sdg-4-policies-flexible-learning-pathways-higher-education-taking-stock-good-practices>

- Masevičiūtė, K., Šaukeckienė, V., & Ozokinčiūtė, E. (2018). Combining studies and paid jobs: Thematic review. UAB "Araneum". Retrieved from: https://www.eurostudent.eu/download_files/documents/TR_paid_jobs.pdf
- Mehta, S. S., Newbold, J. J., & O'Rourke, M. A. (2011). Why do first-generation students fail? *College Student Journal*, 45(1), 20–36.
- Mishra, S. (2016). Intelligence brief: delayed entry into higher education (No. 5). Hannover, Germany. Retrieved from: http://www.eurostudent.eu/download_files/documents/IB_delayed_transition.pdf
- Moulin, S., Doray, P., Laplante, B., & Street, M. C. (2013). Work intensity and non-completion of university: Longitudinal approach and causal inference. *Journal of Education and Work*, 26(3), 333–356.
- Noyens, D., Donche, V., Coertjens, L., van Daal, T., & Van Petegem, P. (2019). The directional links between students' academic motivation and social integration during the first year of higher education. *European Journal of Psychology of Education*, 34, 67–86.
- OECD. (2018). The future of education and skills. Education 2030. The future we want. Retrieved from: [https://www.oecd.org/education/2030/E2030%20Position%20Paper%20\(05.04.2018\).pdf](https://www.oecd.org/education/2030/E2030%20Position%20Paper%20(05.04.2018).pdf)
- Oldfield, K. (2012). Still humble and hopeful: Two more recommendations on welcoming first-generation poor and working-class students to college. *About Campus*, 17(5), 2–13.
- Roksa, J., Trolian, T. L., Blaich, C., & Wise, K. (2017). Facilitating academic performance in college: Understanding the role of clear and organized instruction. *Higher Education*, 74(2), 283–300.
- Samil, J. (2018). *All around the world—Higher education equity policies across the globe*. Lumina foundation and WAHED. <https://worldaccesshe.com/wp-content/uploads/2019/02/All-around-the-world-Higher-education-equity-policies-across-the-globe-FINAL-COPY-2.pdf>
- Snyder, S. C. (2017). *Should I stay or should I go? Fit, belonging, and college persistence decisions for students from low-income families*. Dissertation, University of Minnesota. RIS. Retrieved from: https://conservancy.umn.edu/bitstream/handle/11299/190493/Snyder_umn_0130E_18182.pdf?sequence=1
- Sobieraj, S., & Krämer, N. C. (2019). The impacts of gender and subject on experience of competence and autonomy in STEM. *Frontiers in Psychology*, 10, 1432.
- Tinto, V. (2017). Through the eyes of students. *Journal of College Student Retention: Research, Theory & Practice*, 19(3), 254–269.
- Unger, M., & Zaussinger, S. (2018). Background paper: The new student: Flexible learning paths and future learning environments. In *Austrian presidency of the council of the European Union (Chair), Higher education expert conference. Symposium conducted at the meeting of education, youth, culture and sports council (EYCS)*. Vienna.
- United Nations. (2015). The 17 goals. Retrieved from: <https://sdgs.un.org/goals>
- Wolter, A. (2015). Massification and diversity: Has the expansion of higher education led to a changing composition of the student body? European and German experiences. In P. Zgaga, U. Teichler, & H. G. Schuetze (Eds.), *Higher education research and policy. Higher education reform: Looking back—Looking forward* (pp. 149–171). Peter Lang GmbH.

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