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Dipartimento di Informatica  
e Studi Aziendali

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# E-inclusion in Finland and Italy in the light of statistical data

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***Abstract:** When young people drop out of school they are in great danger of being marginalized in society. Immigrants are another group of people who for several reasons often find it difficult to become integrated into their new home country. In both cases some less formal way of learning might help these groups avoid social exclusion. Well thought-out development and application of new advanced technologies would be likely to level the way for continued education, communication and democratic participation in society. The term e-inclusion refers to these electronic means and how they could be applied to hindering social exclusion. This study compares the situation of school drop-outs and immigrants in Finland and Italy in the light of statistical data. It paves the way for a European research and development project whose aim is to study problems of e-inclusion in Finland and Italy empirically as well as develop technological and pedagogical solutions to them.*

**Keywords:** mobile learning, e-inclusion, disadvantage groups, immigrants, drop outs

## 1. Introduction

The objective of this report is to present and compare statistical data about two focus groups (school drop-outs and young immigrants) in the South-western region of Finland (Varsinais-Suomi) and the region of Trentino in Italy. The report also presents a preliminary understanding of the motivations and problems encountered by these groups in terms of inclusion in society. This report is part of the first step of a research programme focusing on finding solutions to problems of e-inclusion.

The project, which will take place in cooperation between the University of Trento (Italy) - Faculty of Economics and the Åbo Akademi of Turku (Finland) - IAMSR, aims to understand the informative and training needs of the two groups; the final objective is to develop a series of services available through mobile applications.

In particular, the Faculty of Economics of the University of Trento in cooperation with the Laboratory of Maieutics some years ago has developed an e-learning application, named On Line Communities. The core of the application is composed by some abstract entities, i.e., Virtual Communities as aggregation of People to which some communication services are available in order to obtain certain objectives. On Line Communities had been experienced with a limited number of users since 2003, and was finally released early in 2005; At present the system has more than 1400 active communities, 8500 users and about 1.5 million unique accesses since November 2005. In this moment the platform is in a complete reengineering, and soon will be able to offer a series of new mobile services accessible through mobile applications (cellular phone, PDA, etc.); the project is developed in collaboration with the IAMSR center of Turku, and it will finish at the end of 2008.

First of all we will carry out a series of interviews with the aim to understand the needs of the groups involved in the exploratory research. Secondly we will start a further study according to the results we

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will obtain from the first qualitative research. This study will be design to explore the possibility of making an intervention with the use of mobile services and it will eventually extends to a more significant group of people using a quantitative tool.

The work is structured as follows; in the first part we will introduce the first focus group and the most significant data of Trentino and Varsinais-Suomi, making a comparison between the two different situations. In the second part we will consider the second focus group, the young immigrants, through the scheme already described in the previous section.

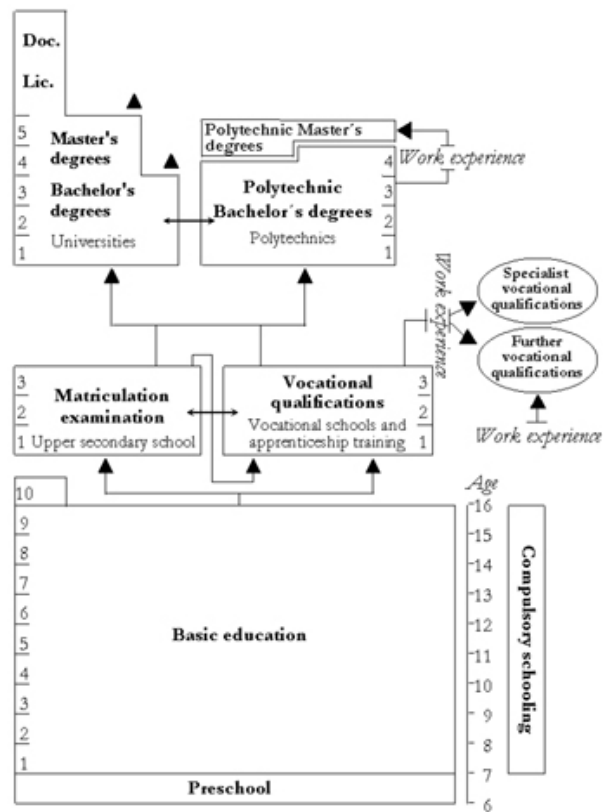
### 1.1 Method and data collection

The report presents statistical data about the two focus groups in Finland and in Italy: in particular, data about the regions of Varsinais-Suomi and Trentino are presented and compared. Data about the focus groups in Finland have been gathered mainly from Statistics Finland ([www.stat.fi](http://www.stat.fi)). Data about the focus groups in Italy have been gathered from the website of Autonomous Province of Trento.

## 2. School drop-outs

### 2.1 School drop-outs in Finland

The Finnish education system is depicted schematically below (Figure 1):



**Figure 1.** The Finnish education system

Compulsory schooling covers the so-called comprehensive school, where the pupils are 7-15 years old. In Finland, the general attitude is to want to continue studying after comprehensive school; only 2.8% of 15-year olds do not want to pursue further studies (OECD preliminary statistics 2007, in Ministry of Education, 2007). According to the Finnish Ministry of Education report (2007, p. 2), in 2005, **63 417** students obtained the comprehensive school leaving certificate and **353** students failed to complete the comprehensive school (0.56%). Approximately **3000** young people per year are left outside of the public education system in Finland. What are these people doing? Some will start working or attend folk high school or have a sabbatical, etc. The number of drop-outs from the comprehensive school is thus less than

one percent. And even the students continuing their studies in the upper secondary school have a high likelihood of finishing their studies; approximately 90% of all upper secondary school students are likely to graduate. The situation in vocational education is somewhat worse; approximately 70% of all vocational education students are likely to receive their qualifications. In other words, more than every fourth vocational education student will discontinue their studies (Ministry of Education, 2007).

The statistics below [1] presents the main activities of 15-24-year olds in absolute numbers.

| Main activity at the end of year 2005   | 15-24-year olds , in total |   |  |
|---|----------------------------|---|--|
|   |                            | of which had taken a post-comprehensive examination <sup>1)</sup> | of which had <b>not</b> taken a post-comprehensive examination <sup>1)</sup> |
| Full-time student in education that leads to a degree/qualification           | 350 670                    | 91 881  | 258 789  |
| Working & studying -student in education that leads to a degree/qualification | 98 899                     | 73 385  | 25 514   |
| Working   | 119 840                    | 95 804  | 24 036   |
| Unemployed, < 52 weeks  | 31 040                     | 21 657  | 9 383  |
| Unemployed, ≥ 52 weeks  | 699                        | 520   | 179  |
| Military/non-military service   | 16 893                     | 14 290  | 2 603  |
| Pensioner   | 4 368                      | 748   | 3 620  |
| At home, entitled to daily allowance  | 9 660                      | 4 621   | 5 039  |
| Other social benefit, not income support                                      | 2 439                      | 1 616   | 823  |
| Other activity  | 20 370                     | 6 069   | 14 301   |
| 15-24-year olds, in total   | 654 878                    | 310 591   | 344 287  |

<sup>1)</sup> e.g a matriculation or vocational examination

**Table 1.** Main activity of 15-24 years old at the end of year 2005

According to Statistics Finland [2], 93,2% of *completers of 9th grade of comprehensive school* and 42% of passers of matriculation examination in 2006 continued their studies in the same year. Completers of comprehensive school numbered roughly 65,800, which is a good 2 000 up from the year before. One-half of them (60% of women and 43% of men) went on to study in upper secondary general school. 40% (31% of women and 49% of men) went on to attend upper secondary level vocational education while 2% went on to the 10th grade. Vocational education has grown more popular in recent years while upper secondary general school education has lost some of its popularity. 7% of the completers of comprehensive school did not continue studying. The proportion of those who remained outside further studies grew by two percentage points from the year before.

|  | Year of graduation |       |       |       |       |       |       |
|--|--------------------|-------|-------|-------|-------|-------|-------|
|  | 2006               |       | 2005  | 2004  | 2003  | 2002  | 2001  |
|  |                    | %     | %     | %     | %     | %     | %     |
| <b>Completers of 9th grade of comprehensive school</b> | 65,838             | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Continued studies in year of graduation                |                    |       |       |       |       |       |       |
| in upper secondary general education                   | 33,666             | 51.1  | 53.2  | 54.1  | 55.1  | 54.8  | 54.2  |
| in upper secondary vocational education                | 26,374             | 40.1  | 39.4  | 38.4  | 37.0  | 36.7  | 36.1  |
| on 10th grade of comprehensive school                  | 1,353              | 2.0   | 2.5   | 2.5   | 2.4   | 2.6   | 2.9   |
| Did not continue studies                               | 4,445              | 6.8   | 4.9   | 5.0   | 5.5   | 5.9   | 6.8   |
| <b>Completers of the matriculation examination</b>     | 33,091             | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Continued studies in year of graduation                |                    |       |       |       |       |       |       |
| in upper secondary vocational education                | 1,398              | 4.2   | 4.4   | 4.0   | 4.0   | 4.0   | 4.1   |
| in polytechnic education                               | 5,766              | 17.4  | 18.2  | 17.0  | 15.2  | 16.0  | 11.7  |
| in university education                                | 6,774              | 20.5  | 19.5  | 19.2  | 19.0  | 19.4  | 19.4  |
| Did not continue studies                               | 19,153             | 57.9  | 57.9  | 59.8  | 61.8  | 60.6  | 64.8  |

**Table 2.** Completers of curriculum-based education

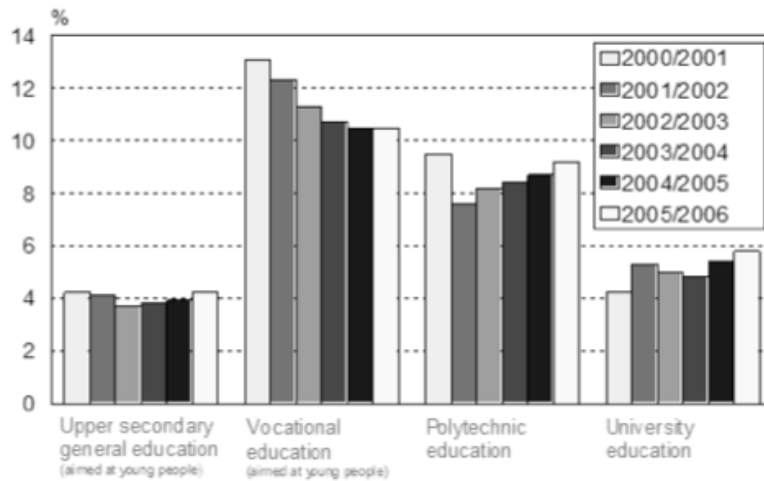
According to Statistics Finland [3], *completers of curriculum-based vocational education* (see Table 2) provided by educational institutions numbered 31 100 in 2006. The number was 0.5% lower than in the previous year. 52% of the qualifiers were men. The largest number, or 39%, of the qualifications were attained in the field of technology and transport. The next largest numbers were attained in the fields of welfare, health and physical exercise (15%) tourism, catering and economics (14%) and business economics and administration (11%). The shares of other fields of education were below 10%.

According to Statistics Finland [4], the number of students in *curriculum-based vocational education* provided by educational institutions was 125 700 in 2006. New students numbered 49 000. The numbers of both students and new students were one per cent higher than one year previously. 54% of students were men. A total of two thirds of the students were studying in the fields of technology and transport (41%), welfare and health (14%) and tourism, catering and economics (13%).

According to Statistics Finland [5], 54 900 students attended *apprenticeship training* leading to a qualification during the calendar year 2006. The number of students was 6% up from the previous year. 40% of the students attended training for an initial vocational qualification, 34% for a further vocational qualification and 26% for specialist vocational qualification. The shares of men and women among the students were almost equal. New students numbered 21 800. Of the students, 11 000 completed an entire qualification. Of the completed qualifications, 30% were initial vocational qualifications, 39% were further vocational qualifications and 31% specialist vocational qualifications. 55% of the completers of a qualification were women.

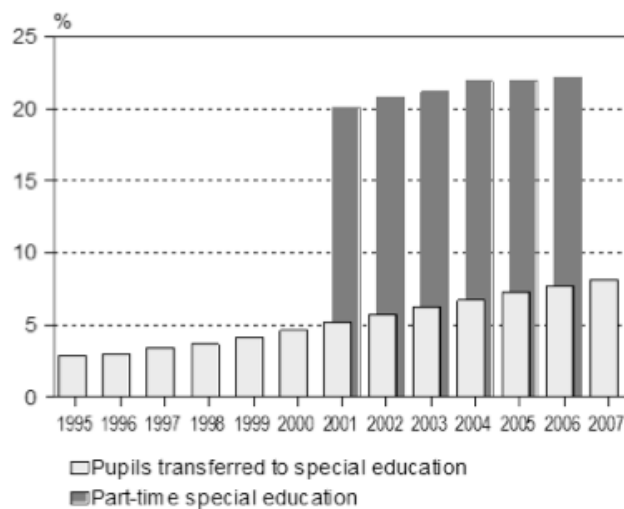
The figure below shows the drop-out rate in upper secondary general education, vocational, polytechnic and university education from 2000 to 2006. While drop-out rate has decreased in vocational education, there has been an increase in drop-out rates in all other types of education for the recent years.





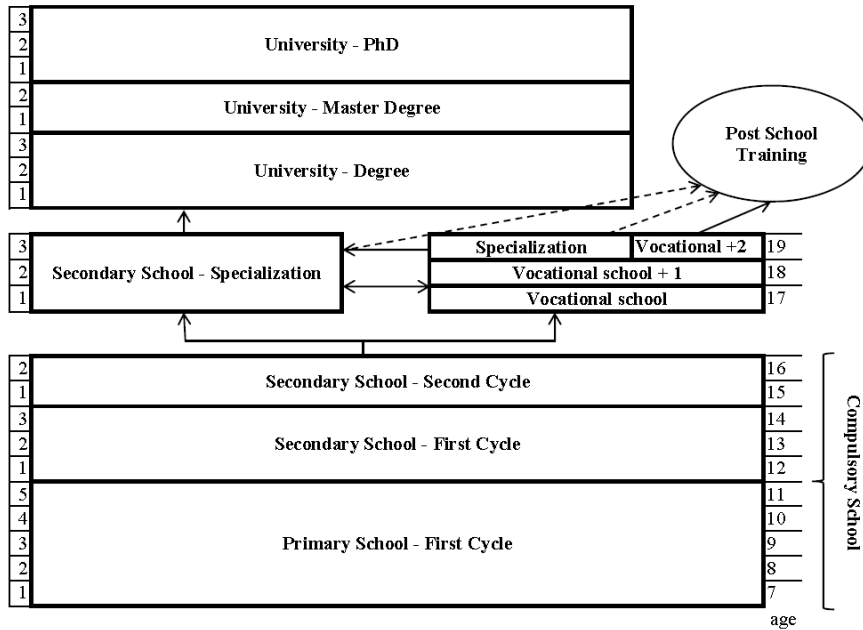
**Figure 2:** Discontinuation of education in upper secondary general, vocational, polytechnic and university education in the academic years from 2000/2001 to 2006/2005

Special education in comprehensive schools has also increased steadily over the last 12 years (see Figure 2). While students at comprehensive school are not the focus of our research, it is interesting to note that pupils in need of special education today are potential drop-outs tomorrow. It is of course a good thing that problems are tackled as early as in the comprehensive school, but it should also be a concern because of the increasing trend.

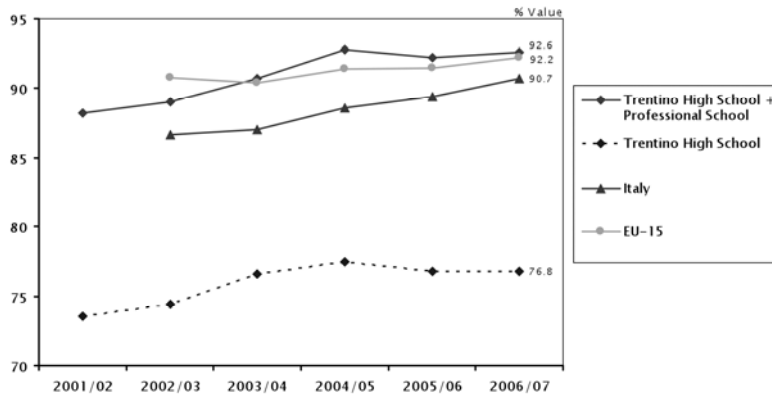


**Figure 3:** Shares of pupils (in percentage) transferred to special education and receiving part-time special education among all comprehensive school pupils 1995-2007

## 2.2 School drop-outs in Italy



**Figure 4:** The Italian education system

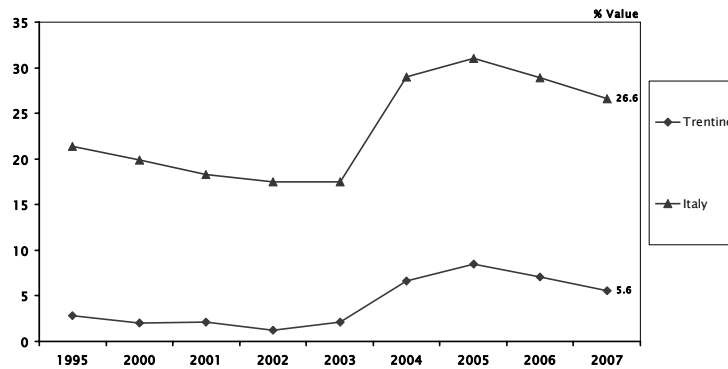


**Figure 5:** School rates for students between 14-18

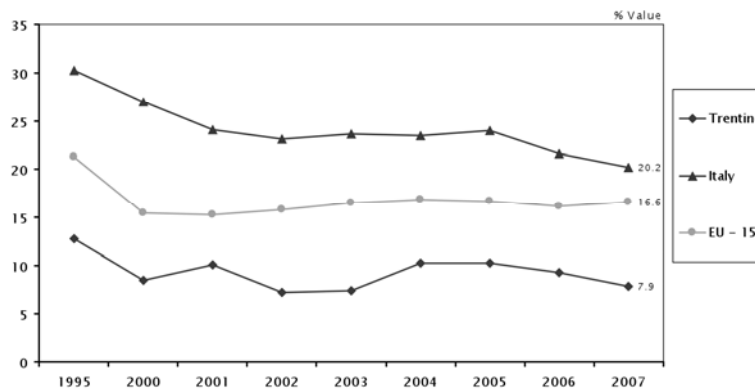
As figure 5 shows, the school rate level in the Trentino region is quite high (above the EU and Italy level). This number has been steady since 2004/2005. The drop-out rate of underaged students in the Trentino region is 2.6% (youth between 14 and 18) [6].

According to our data, **92% of students conclude the school cycle**, but the internal path is not linear; and the most critical point is in the first year of high school: 12.4% fail, and part of the students decides to move to vocational school. Every year there are about 500 young people that leave school in the Trentino region; they are without a degree and have a high risk of being socially marginalized.

Figure 6 and 7 show a comparison of unemployment figures between Italy and the region of Trentino. The data indicate that the unemployment of young people is low, compared to the national level (and to the EU-level). Our sources also indicate that the youth unemployment index in Trentino is **not structural**: it is not connected to the difficulty to find a job, but is related to temporary work contracts (% higher than the national average) [7]. Looking for a first job (or a new job) takes in average less than **one month** [8]



**Figure 6:** people looking for first job (based on the workforce aged 15-24)



**Figure 7:** Youth unemployment rate (15-24 years old)

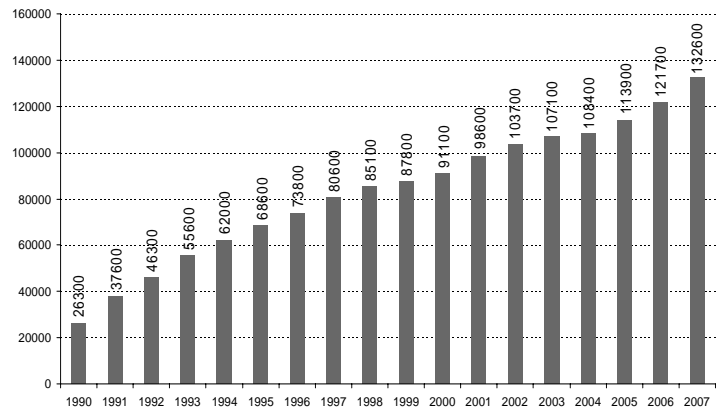
### 2.3 Comparison

In 2005, approximately 14 000 youngsters in Finland had not continued their studies after comprehensive school and their current activities were unknown. In 2006, 93% of *completers of 9th grade of comprehensive school* in Finland continued their studies, the corresponding figure for Italy is also 92.6%. In the academic year 2005/2006, 6% of students in Finland attending education leading to a qualification or degree discontinued their studies (In Trentino the percentage is 2.6%). In 2006, 7% of completers of the 9<sup>th</sup> grade at comprehensive school in Finland did not continue their studies. The need for special education (in Finland) has increased every year; boys outnumber girls in difficulties (in Trentino 458 boys and 176 girls).

## 3. Immigrants

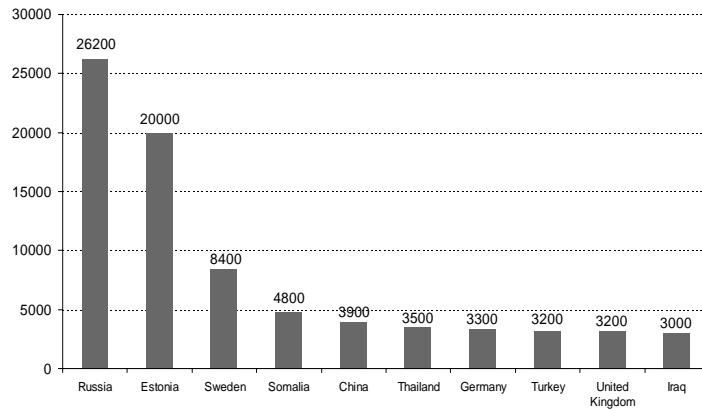
### 3.1 Immigrants in Finland

Data show that the number of foreign citizens in Finland has increased steadily since 1990 (figure 8).



**Figure 8:** Foreign Citizens in Finland 1990–2007

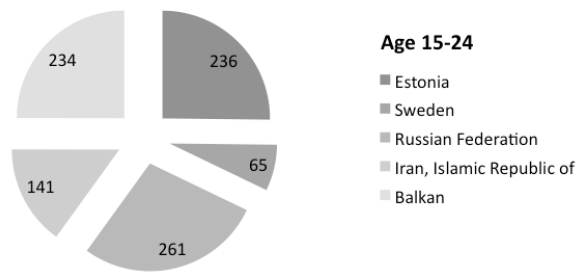
The main groups of foreign citizens in Finland are Russians and Estonians. The same groups are largely represented in the Varsinais-Suomi region, even for the category of 15-24 years old (see Figures 9, 10 and 11 below).



**Figure 9:** Foreign Citizens in Finland (the top ten in 2007)



**Figure 10:** Immigrants in Varsinais-Suomi in 2007



**Figure 11.** Younger immigrants (15-24 years old) in the Varsinais-Suomi region

### 3.2 Immigrants in Italy

The estimated number of immigrants in the Trentino region is **33 000**, representing about **6.6%** of the total population. These immigrants are from Albania (16% of total immigrants), Morocco (12.3%), Romania (12%) (see Figure 11). Young people **under 18 represent ¼ of immigrants** (24,9%, see Figure 12). Second generation and “generation 1.5” represent one third of immigrants (in some groups of immigrants) [9].

| Countries              | 2006   | %    | 2002   | %    |
|------------------------|--------|------|--------|------|
| Albania                | 5,331  | 16.0 | 3,266  | 17.1 |
| Morocco                | 4,106  | 12.3 | 3,051  | 16.0 |
| Romania                | 3,996  | 12   | 1,308  | 6.8  |
| Macedon                | 2,547  | 7.6  | 1,699  | 8.9  |
| Serbia/Montenegro      | 2,048  | 6.1  | 1,534  | 8    |
| Tunisia                | 1,509  | 4.5  | 1,034  | 5.4  |
| Ukraine                | 1,422  | 4.3  | 150    | 0.8  |
| Pakistan               | 1,168  | 3.5  | 711    | 3.7  |
| Moldavia               | 1,040  | 3.1  | 121    | 0.6  |
| Poland                 | 982    | 2.9  | 425    | 2.2  |
| Bosnia and Herzegovina | 748    | 2.2  | 609    | 3.2  |
| Algeria                | 635    | 1.9  | 393    | 2.1  |
| China                  | 622    | 1.9  | 242    | 1.3  |
| Croatia                | 600    | 1.8  | 505    | 2.6  |
| Germany                | 572    | 1.7  | 504    | 2.6  |
| Other countries        | 5,976  | 17.9 | 3,549  | 18.6 |
| Total                  | 33,302 | 100  | 19,101 | 100  |

**Table 3:** Immigrant residents in Trentino.

| Age group | Total  | %    |
|-----------|--------|------|
| 0-5       | 3,496  | 10.5 |
| 6-10      | 2,134  | 6.4  |
| 11-17     | 2,667  | 8.0  |
| 18-29     | 7,307  | 21.9 |
| 30-39     | 8,832  | 26.5 |
| 40-49     | 5,688  | 17.1 |
| 50-64     | 2,510  | 7.5  |
| over 65   | 668    | 2    |
| Total     | 33,302 | 100  |

**Table 4:** Immigrants in Trentino by age group

The largest groups among young immigrants are from Albania, Romania, and Morocco (see Table 5).

| Countries         | under 5     | 6-10       | 11-17    | 18-29       | 30-39       | 40-49       | 50-64      | over 65  | Total      |
|-------------------|-------------|------------|----------|-------------|-------------|-------------|------------|----------|------------|
| Albania           | 12          | 7.3        | 9.6      | 28.6        | 21.2        | 11.5        | 6.5        | 3.3      | 100        |
| Morocco           | 15.2        | 9.4        | 9.5      | 18.8        | 24          | 16.5        | 5.3        | 1.4      | 100        |
| Romania           | 8.6         | 5.4        | 6.6      | 26.6        | 35.5        | 13.0        | 3.7        | 0.6      | 100        |
| Macedon           | 12.1        | 7.9        | 14.5     | 19.2        | 23.1        | 17.7        | 4.7        | 0.8      | 100        |
| Serbia/Montenegro | 13          | 8.9        | 10.8     | 18.7        | 22.7        | 16.5        | 8.7        | 0.8      | 100        |
| Tunisia           | 20.4        | 9.2        | 3.2      | 16.2        | 29.4        | 18.8        | 2.2        | 0.7      | 100        |
| Ukraine           | 2.6         | 2          | 5.5      | 10.7        | 19.9        | 32.8        | 25.8       | 0.7      | 100        |
| Pakistan          | 14          | 8.7        | 10.8     | 21.5        | 24.7        | 15.3        | 4.5        | 0.5      | 100        |
| Moldavia          | 3.7         | 4.2        | 9.2      | 21.9        | 25.4        | 25.7        | 9.9        | 0        | 100        |
| Poland            | 4.9         | 3.5        | 5.7      | 24.3        | 27.9        | 18.5        | 14.7       | 0.5      | 100        |
| Other countries   | 7.9         | 4.5        | 5.6      | 21.4        | 29.4        | 18.7        | 8.7        | 3.7      | 100        |
| <b>Total</b>      | <b>10.5</b> | <b>6.4</b> | <b>8</b> | <b>21.9</b> | <b>26.5</b> | <b>17.1</b> | <b>7.5</b> | <b>2</b> | <b>100</b> |

**Table 5:** Immigrants by age group and nationality

### 3.3 Comparison

The total number of immigrants in the Varsinais-Suomi region is 12 292 (2.7% of total population), they are 33 000 in the Trentino region (6.6% of the total population).

Immigrants in Finland are from Russia, Estonia, Balkan, Sweden, and Iran, mainly; in Trentino, Albania, Marocco, and Romania.

The share of young immigrants (under 18-19) in the Varsinais-Suomi region is 6.4 %; in Trentino, it is 25 %.

### Conclusion and the next steps

The work was concentrated on a comparative analysis between two focus groups, the drop outs and the young immigrants, in the context of Trentino and Varsinais-Suomi regions.

The next steps, that will be conducted by the two working groups (Italian and Finnish), will be:

- Develop a interview's track to investigate the training and informational needs of two groups;
- Interviews twenty individuals for each focus group (drop outs and young immigrants);
- Analyze the collected data, making a comparison between the results collected in Italy and Finland.

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