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# COUNTING IMMIGRANTS AND EXPATRIATES IN OECD COUNTRIES: A NEW PERSPECTIVE\*

Jean-Christophe Dumont and G. Lemaître

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#### **SUMMARY**

Since the end of the 1990s, issues related to international migration, and more particularly to the international mobility of highly-qualified workers, are receiving increasing attention from policy-makers. This reflects, among other reasons, the increasing international movements that have been taking place following the fall of the Iron Curtain and in conjunction with the growing globalisation of economic activity. Despite these increased movements and the heightened policy interest in this area, the quality and comparability of international data on migration have scarcely kept pace.

In particular, data that are generally available on migration flows do not provide a clear idea of the relative scale of movements across countries and data on total immigrant stocks have suffered from differing national views concerning who is an "immigrant". In addition to the lack of comparability on immigrant populations, most OECD member countries have little information at their disposal on their expatriates. In developing countries, the question of the international mobility of highly-qualified workers is generally manifested through a concern about the so called "brain drain" and the loss of economic potential which could result from this.

With the 2000 round of censuses, however, virtually all OECD countries have incorporated in their census a question on the country of birth of persons enumerated, as well as on their nationality. With this information, it is possible to provide, for the first time, a detailed, comparable and reliable picture of immigrant populations within OECD countries, reflecting the cumulative effect of movements within and to the OECD area over the past decades. And with additional information on the educational attainment of migrants, the cumulative impact of flows of human capital can be depicted and, in particular, the conventional wisdom on the brain drain confronted with actual data.

Results presented in this paper based on the new database on immigrants and expatriates in OECD countries, show that (i) the percentage of the foreign-born in European OECD countries is generally higher than the percentage of foreigners; (ii) international migration is quite selective towards highly skilled migrants; (iii) in most OECD countries, the number of immigrants with tertiary education exceeds the number of highly qualified expatriates to other OECD countries; (iv) among non-member countries the impact of the international mobility of the highly skilled is diverse: the largest developing countries seem not be significantly affected and indeed may benefit from indirect effects associated with this mobility while some of the smallest countries, especially in the Caribbean and in Africa, face significant 'emigration rates' of their elites.

#### RESUME

Depuis la fin des années 90, les migrations internationales, et plus particulièrement la mobilité internationale des travailleurs hautement qualifiés, retiennent l'attention des décideurs politiques. Cette tendance tient entre autres à l'importance prise par les mouvements de personnes suite à la chute du Rideau de fer et aussi en relation avec la mondialisation croissante des économies. Malgré cet accroissement important des mouvements migratoires et l'intérêt politique qu'ils suscitent, la qualité et la comparabilité des données statistiques sur ces mouvements restent encore limitées.

Les statistiques généralement disponibles sur les flux migratoires ne donnent pas une idée précise de l'importance de ces mouvements à travers les pays. Par ailleurs, les données sur les effectifs d'immigrés souffrent du fait que les pays ne définissent pas de la même manière la notion d'immigré. Outre ce manque de comparabilité des données sur les populations immigrées, la plupart des pays de l'OCDE disposent de peu d'informations sur leurs expatriés. Dans les pays en développement, la question de la mobilité internationale des travailleurs hautement qualifiés se traduit le plus généralement par des

préoccupations en matière de fuite des cerveaux et de la perte de potentiel économique qui peut en résulter.

Aux alentours de l'année 2000, presque tous les pays de l'OCDE ont procédé à un recensement des populations et y ont incorporé une question sur le pays de naissance des personnes interrogées, ainsi que sur leur nationalité. Grâce à cette information, il est possible de donner pour la première fois une image détaillée et fiable de la comparaison des populations immigrées établies dans les pays membres de l'OCDE, rendant compte des effets cumulés des mouvements entre et à destination de la zone OCDE au cours des décennies passées. On dispose aussi d'informations complémentaires sur le niveau d'éducation atteint par les migrants, et on peut ainsi mieux appréhender les flux de capital humain et, en particulier utiliser ces données pour éclairer les discussions sur la fuite des cerveaux.

S'appuyant sur ces informations, l'OCDE a créé une nouvelle base de données sur les immigrés et les expatriés. Les résultats présentés dans ce document montrent que i) le pourcentage des personnes nées à l'étranger dans les pays européens de l'OCDE est généralement plus élevé que celui des étrangers ; ii) les migrations internationales s'orientent de manière sélective vers les migrants hautement qualifiés ; iii) dans la plupart des pays de l'OCDE, le nombre d'immigrés possédant un niveau d'éducation de l'enseignement supérieur dépasse le nombre des expatriés hautement qualifiés vers d'autres pays de l'OCDE ; iv) parmi les pays non membres de l'OCDE, l'impact de la mobilité internationale des travailleurs immigrés hautement qualifiés est diversifié : les grands pays en développement semblent moins affectés et en fait pourraient même bénéficier des effets indirects associés à cette mobilité, alors que certains pays de plus petite taille, spécialement dans les Caraïbes et en Afrique, se trouvent confrontés à des taux d'émigration élevés de leurs élites.

#### A. Introduction

- 1. Since the end of the 1990s, issues related to international migration, and more particularly to the international mobility of highly-qualified workers, are receiving increasing attention from policy-makers. This reflects among others the increasing international movements that have been taking place following the fall of the Iron Curtain and in conjunction with the growing globalisation of economic activity. In addition, demographic imbalances between developed and developing countries and large differences in wages have tended to encourage the movements of workers from economies where they are in surplus to those where they are most in need. Moreover, many OECD countries have been attempting to attract qualified human resources from abroad, which their increasingly knowledge-intensive economies need in order to sustain economic growth. Despite these increased movements and the heightened policy interest in this area, however, the quality and comparability of international data on migration have scarcely kept pace.
- 2. In particular, data that are generally available on migration movements do not provide a clear idea of the relative scale of movements across countries. In some countries, the so-called settlement countries (Australia, Canada, New Zealand and the United States), the focus tends to be on "permanent" migrants, that is, persons who are admitted to the country and granted the right of permanent residence upon entry. Persons who are granted temporary permits may not even figure in the official migration statistics. In other countries, immigrants consist of persons who are enrolled onto a population register, which is a file of persons residing in the country that is generally maintained at the municipal level. To be registered, a person entering from outside the country must intend to stay in the country for more than a specified minimum period and have a residence permit (if required) of at least the minimum duration. In some countries (e.g. Belgium, Japan), the minimum period is three months, in others one year (Sweden, Finland). In practice, this means that international students, for example, will often be counted as immigrants in these countries. In the settlement countries, they would not figure in the official migration statistics. Although the solution would normally be to harmonise the statistics across countries, for a number of technical reasons, progress in this area is exceedingly slow.
- 3. As with international data on annual movements, those on the total immigrant population have suffered from differing national views concerning who is an "immigrant". In the settlement countries, immigrants are considered to be persons who are foreign-born, that is, who at same stage have immigrated into the country of residence<sup>1</sup>. For these countries, the acquisition of nationality is relatively easy and it is rare to see statistics on persons of foreign nationality<sup>2</sup>.
- 4. In other countries immigrants are considered precisely to be persons of foreign nationality. However, because persons born abroad can acquire the nationality of the country of residence and because persons born in a country do not necessarily acquire thereby the citizenship of the country of birth, statistics on the foreign population may not yield the same result as those on the foreign-born population. This would not be problematical if it were possible to produce data on both bases. But this

Some foreign-born persons were born abroad with the citizenship of the current country of residence; these persons would not normally be considered as immigrants. This phenomenon is common only in a certain number of countries; it can generally be ignored in most countries without risk of providing a distorted picture of the immigrant population.

There are connotational differences between the terms "nationality" and "citizenship". They refer to more or less the same notion, but the former tends to be used in countries where citizenship at birth is based on that of the parents (*jus sanguinis*), whereas the latter is common in countries where citizenship granted to persons born in the country (*jus soli*). Hereafter, we will use the two terms interchangeably.

was not the case for many countries until fairly recently, with the result that it was customary to see international statistics for two sets of generally non-overlapping countries, those applying the concept of a foreign country of birth to define the immigrant population and those for whom foreign nationality was the determining criterion.

- 5. As immigrant populations have grown in many countries and naturalisations have become more common, estimates based on these different concepts have become less and less comparable across countries. While new arrivals of foreign citizens tend to increase the size of the foreign population, those already there may acquire the citizenship of the host country and become nationals. As a result, the magnitude of the population of foreign citizenship may tend to remain more or less stable or to grow slowly, while the number of foreign-born persons continues to increase.
- 6. In addition to the lack of comparability on immigrant populations, most OECD member countries have little information at their disposal on their expatriates<sup>3</sup>. And those which have some information do not necessarily have a clear picture of the countries of destination or of the exact magnitudes of persons who have left the country. Finally, rare are the countries which have a precise picture of their expatriates by duration of stay abroad, level of qualification, occupation or branch of industry.
- 7. In developing countries, the question of the international mobility of highly-qualified workers is generally manifested through a concern about brain drain and the loss of economic potential which could result from this. In OECD countries the retention of qualified persons and the return of expatriates constitute important challenges to which several countries have tried to respond.<sup>4</sup> Several recent studies undertaken at the OECD have demonstrated that the question is more complex than is often depicted (OECD, 2002; Dumont and Meyer, 2003). These studies also highlight the deficiencies and the gaps in the statistical data available, making it difficult to grasp the complex international mobility patterns of highly skilled workers. To date, only one study has attempted to estimate rates of emigration by country of origin and by level of qualification (Carrington and Detragiache, 1998)<sup>5</sup>. This study is widely cited but is now somewhat dated (it uses data from the 1990s), and is subject to a number of biases which limit its usefulness.
- 8. As a result, current statistics tend to show a rather imperfect image of the actual extent of migration in general and of the movements of the highly skilled in particular, both with respect to movements from developing to developed countries but also within the OECD area as well.
- 9. With the 2000 round of censuses, however, virtually all OECD countries have incorporated in their census a question on the country of birth of persons enumerated, as well as on their nationality. With this information, it is possible to provide, for the first time, a detailed, comparable and reliable picture of immigrant populations within OECD countries, reflecting the cumulative effect of movements within and to the OECD zone over the past decades. Not only can immigrant populations be compared on a common basis across countries, but the extent of migration from a single source country to each OECD country as well as to OECD countries as a whole can be determined. And with additional information on the

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The term "expatriates" is used in this paper to refer to all foreign-born persons living abroad, regardless of the current or eventual duration of their stay abroad. Obviously, many and perhaps most will never return to their country of birth to live.

<sup>4</sup> Some of the measures adopted include reinforcing tax incentives to promote return migration, seeking to enhance the environment for scientific and technical research or improving the status of certain professions.

<sup>5</sup> See also Adams (2003), who applied the methodology developed by Carrington and Detragiache (1998) to more recent data.

educational attainment of migrants, flows of human capital can be depicted and, in particular, the conventional wisdom on the brain drain confronted with actual data.

10. This paper is divided into four sections. The first section describes the new database that is the source of the information in this chapter. The second section presents the basic results derived from the new database on immigrants and expatriates in OECD. The third and fourth sections will discuss in detail the results on expatriates from OECD and non-member countries. The fifth section provides an overview of recent policy measures related to movements of the highly skilled in OECD countries. A summary and conclusions follow.

# 1.A new database on international migrants

- 11. The information presented in this chapter is based on a data collection launched in July 2003, addressed to OECD National Statistical Offices (NSOs)<sup>6</sup> and aimed at obtaining census data on the stock of the foreign-born population in OECD countries. The core objective of the project was to better measure and characterise foreign-born populations and especially, to obtain, by aggregating across OECD receiving countries, data on expatriates by country of origin.
- 12. The new database on immigrants and expatriates in OECD countries (see Box 1) is the first internationally comparable data set with detailed information on the <u>foreign-born population</u> for almost all member countries of the OECD. In addition, using the data base, it is possible to calculate 'emigration rates' to OECD countries by level of qualification and country of origin for approximately 100 countries. This provides a broad view of the significance of highly skilled emigration, for both OECD and less developed countries.

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The network created associates statisticians from NSOs in 29 member countries, as well as observers from several multilateral organisations (the ILO, Eurostat, the European Commission, the UN statistics division, the UN Economic Commission for Europe).

<sup>7 &#</sup>x27;Emigration rates' are calculated by dividing the number of foreign-born residing in OECD countries and originating in a particular country by the total number of natives from that country, including those no longer living in the country. It does not correspond to the usual definition of an emigration rate, which relates flows of migrants over a certain period of time to the initial stock of persons in the origin country.

#### Box 1 Development of a database on international migrants in OECD countries

Most censuses in member countries were conducted around the year 2000 and the results are currently available for all of them. Due to their comprehensive coverage, censuses are particularly well-adapted to identifying and studying small population groups. In several countries, however, there is no population census and it has been necessary to turn to data from population registers or from large-sample surveys. Census data were actually used for 23 of the 29 participating countries and other sources for the remainder (see Annex 1 for more detailed information). The data base currently includes data on the foreign-born in OECD countries by detailed place of birth, nationality and educational attainment (three levels).

The database covers 227 countries of origin and 29 receiving countries within the OECD zone. Only 0.46% of the total population of all OECD countries did not report its place of birth and 0.24% did not report a specific country for the place of birth (either a region was specified or no answer was given). The level of education was reported for more than 98% of the population 15 years of age or older. Finally, complete information (i.e. detailed education and detailed place of birth) is available for 97.8% of the OECD population aged 15+. 'Emigration rates' by level of qualification have been calculated for more than 100 countries.

Data adjustments have been necessary for only two situations. Firstly, data for Japan and Korea were not available by country of birth. For these two countries, it has been assumed that the country of nationality is the country of birth. This seems a reasonable assumption for the foreign-born, given the very low rate and number of naturalisations in these two countries. However, it will tend to overestimate the number of foreign-born relative to other countries, because persons born in Japan or Korea to foreigners will tend also to be recorded as foreign and thus be classified as foreign-born.

The second situation concerns Germany, where the available source was the Microcensus, a large-scale household sample survey<sup>8</sup>. This source identifies whether or not a person was born abroad, but not the country of birth. Equating country of birth and country of nationality for Germany would have attributed "Germany" as the country of birth to naturalised foreign-born persons, whose numbers are not negligible, and to the numerous "ethnic" German immigrants who obtained German nationality upon entry into Germany. Another data source (the German Socio-Economic Panel) was used to adjust the data for Germany where this was possible (see Annex 1 for more details).

#### 2.Immigrants in OECD countries

## The foreign and foreign-born populations

Table 1 shown below compares the incidence of the foreign and foreign-born populations for almost all OECD countries. As is evident, it is in three of the four settlement countries (i.e. Australia, Canada and New Zealand, but not the United States), as well as in Luxembourg and Switzerland, that the percentage of the foreign-born is highest, close to or exceeding 20% in all of these. In addition, certain European countries (e.g. Austria, Germany, the Netherlands and Sweden) have a percentage of immigrants almost as high if not higher than that recorded in the United States (approximately 12%)<sup>9</sup>. Likewise the percentage of the foreign-born population exceeds 10% of the total population in Belgium, France, Greece and Ireland. These figures are appreciably higher than those generally presented for the immigrant population, measured on the basis of foreign nationality and which never exceed 10%, except for Luxembourg and Switzerland. It is clear that many European countries have managed to admit and absorb immigrants in considerable numbers over the past decades, significantly more than is evident from looking at statistics of the resident foreign population.

<sup>8</sup> The last German census was conducted in 1987.

<sup>9</sup> The 2000 United States Census enumerated close to 8 million more persons than had been anticipated on the basis of the post-censal population projections. Most of these were believed to be undocumented aliens.

## Table 1. Percentage of foreign-born and of non-citizens in the total population in OECD countries

- Caution, however, needs to be exercised in interpreting the data for some countries. In France, but also in Portugal, for example, the foreign-born population includes a significant proportion of persons born abroad as citizens and repatriated from former colonies. Thus, about 1.6 million people born with French nationality outside of France (mainly in Algeria) are counted in the population census of 1999. A similar situation occurs for other countries and in particular the United States, because of persons born overseas of American parents (for instance, children born to military personnel stationed abroad). For certain countries, in particular the United States, Australia or Canada, statistics on non-citizens are seldom published. Such statistics provide another perspective on migration. For example, 6.6% of the population of the United States does not have United States citizenship. The figure for Australia is 7.4%, that for Canada 5.3%, levels comparable to those recorded in some European countries such as France, Sweden, Denmark and the Netherlands. It is clear that for these settlement countries as well, data on persons of foreign citizenship would not give an accurate picture of the magnitude of their immigrant populations.
- 15. The differences between the statistics on non-citizens and on the foreign-born are partly attributable to the varying requirements across countries for obtaining the citizenship of the country of residence, and to the fact that in many countries, persons born in the country of parents of foreign nationality do not automatically acquire the citizenship of the host country. Table 2 confirms that in Australia and in Canada, but also in Sweden and the Netherlands<sup>10</sup>, a large share of the foreign-born acquires the citizenship of the host country. On the other hand, the acquisition of citizenship is more difficult and less common in Luxembourg and Switzerland<sup>11</sup>. Acquisition of citizenship is also high in the Czech and Slovak republics, Hungary and Poland, largely because immigrants to these countries were largely ethnic nationals who immigrated from neighbouring countries and for whom acquisition of citizenship was either automatic or facilitated.
- Aside from the fact that statistics on the foreign-born population give a more accurate picture of the extent of migration in countries and of developments over time (unlike nationality, the place of birth is an unvarying characteristic) there are other reasons why they are to be preferred over those of the foreign population. One concerns the possible impact of statistics on the foreign population on public perception of migration. One might expect that, because naturalisation tends to be associated with a longer period of residence as well as certain legal advantages, among them access to civil service employment, statistics based on the foreign population would tend to give a less positive picture of the labour market outcomes of immigrants. Although in practice unemployment rates of foreigners are indeed higher than those of the foreign-born in most countries, the difference is generally not large (OECD 2004).
- 17. Still, the distinction between foreign-born and native-born is a useful one. Education, training and labour market policies will clearly not be the same for disadvantaged persons of immigrant background who have been born, raised and educated in the host country and for immigrants who arrive with language deficiencies and educational credentials and labour market experience obtained elsewhere and which may not always be recognised. Statistics that are able to distinguish between these two groups are clearly needed if appropriate diagnoses of labour market problems are to be made and the appropriate policies developed for addressing them.

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Portugal could have been added to this list, but in this case the result would be largely attributable to persons repatriated from Angola in the mid-1970s.

In a recent referendum in Switzerland, a proposal to facilitate the acquisition of nationality for "third-generation" immigrants was rejected.

The geographic origins of immigrants

- 18. The distribution of foreign-born residents in OECD countries by area of origin (see Chart .1) is equally informative. In the OECD zone, people born in North Africa (Algeria, Tunisia and Morocco) are at least as numerous as persons born in China. Geographic proximity to Europe and/or the existence of former colonial links undoubtedly have a lot to do with this. Migrants originating from North Africa are concentrated in three European countries (i.e. France, Spain and the Netherlands).
- 19. On the whole, Asians and Latin Americans (excluding Caribbean countries) account for more than 15 million immigrants each. Spain, a recent immigration country, alone has received more than 740 000 people from Latin America, and the United States, approximately 13.5 million. In the former case, migration has clearly been driven by the common language and the facilitated integration which it conveys, in the latter, by geographic proximity, historical ties and the pull of a dynamic labour market.
- 20. However, it is continental Europe (including Turkey and central Eastern Europe), which accounts for the largest number of immigrants in OECD countries. There are, for example, nearly 2 million immigrants from the enlarged European Union (EU25) in each of Canada, Australia, France and Germany and over four and one half million in the United States. Emigration from the United Kingdom accounts for over 20% of this and from Germany, Italy and Poland close to 15% each. Note the absence of France among the large European countries, which maintains its historical reputation as a country whose citizens do not emigrate and in these data have only about a three percent share of persons born in EU25 countries and residing in other OECD countries.

#### Chart 1. Foreign-born by region of origin in OECD countries, percentages

- 21. The countries which practice a selective immigration policy based on human capital criteria (Australia, Canada, New Zealand) stand out in Table 3 among the countries with the highest percentages of highly qualified immigrants<sup>12</sup>. But this is also the case in the United Kingdom, Ireland, Korea, Norway and New Zealand, where 30 to 41% of immigrants have a higher degree. In addition, in a number of countries, foreign-born persons with a doctoral degree account for a high proportion of all persons holding such degrees in the host country. In the United States, even if a significant part of the immigrants are not highly qualified, more than 440 000 foreign-born persons hold a PhD<sup>13</sup>. This accounts for approximately 25% of the total stock of PhDs in the country. The proportion of foreign-born doctorates in Sweden is comparable and in Australia and Canada it stands even higher, at 45% and 54%, respectively.
- 22. The situation in Belgium, Finland, France, Italy, the Netherlands, Portugal and Spain differs significantly. In these countries, at least 50% of the foreign-born have less than upper-secondary education. In Austria, the difference between the percentage of low-qualified among the foreign and native-born populations is particularly large (approximately 16 percentage points). This is also the case in Poland and the Czech Republic.
  - 3. Expatriates of OECD member countries residing in another member country
- 23. Much attention has been directed in recent years within OECD countries at the emigration of highly qualified persons, attracted to countries where job opportunities are more prevalent and research funding more generous. Solid evidence regarding the extent of this phenomenon has been notably absent

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There is, to a certain extent, an implicit assumption here, which is that persons born abroad were educated abroad. This is obviously not always the case.

The figure is approximately 422 000 if one excludes the foreign-born offspring of American parents.

form the public debate. Although the database described here does allow one to remedy this as yet with respect to recent departures, it does provide a broad overall picture of expatriation over the past decades.

- Table A5 in Annex 2 presents the complete data on expatriates from OECD countries. It gives the stock of persons born in one OECD country and residing in another (see Box 2 for more information on alternative methods for obtaining data on expatriates). In the 29 OECD countries currently under review, 36.3 million persons, i.e. 46% of the total foreign-born population, come from another OECD country. In certain host countries, such as Luxembourg, the Slovak Republic, Ireland, Mexico, the Czech Republic and to a lesser extent Switzerland and Belgium, the share of the foreign-born from other OECD countries is very high (between 65% and 85%). At the other extreme, it is close to 24% in Hungary, Poland and Korea and only 11% in Japan.
- 25. The largest expatriate group consists of persons born in Mexico, with nearly 9.5 million people, of whom the vast majority are resident in the United States. The number of persons born in Germany and in the United Kingdom residing in other OECD member countries is also large, more than 3 million people for each of them. The number of persons born in Turkey, Italy and Poland and residing in other OECD countries amounts to over 2 million persons each.

## Box 2. Counting expatriates: Methods and limits

Identifying and counting expatriates abroad is not without difficulties and different methods may produce different estimates. There are three main types of estimates, each of them with its advantages and shortcomings: i) statistics of people registered in embassies and consulates overseas, ii) emigration surveys in origin countries and iii) compilation of statistics from receiving countries.

Administrative data from embassies and consulates provide an interesting source for estimating the stock of nationals abroad. Indeed in most cases expatriates need to register to receive social benefits or pension payments, to pay taxes, to vote overseas, to renew identity papers, or simply to report their presence in the country. Unfortunately, because registration is not always compulsory or enforced, the data coverage is not perfect and may vary a lot from one country to another. For instance, the estimate of French citizens living in other OECD countries by the Ministry of Foreign Affairs (1.4 million in 1999) is more than double the number of official registrations at consulates. Furthermore, because people do not necessarily deregister and because some people may register even for short stays abroad (especially in countries where there is some risk), overestimation is also a problem.

Several countries have included specific questions on residents temporarily overseas in Censuses or have implemented specific surveys to identify their nationals abroad. It is possible to ask an interviewed household member how many usual members of the household are currently abroad. This type of estimate, however, covers only short stays abroad (including those for reasons of tourism) and excludes many long-term emigrants, because the situations in which the entire household has settled overseas are not covered.

In this paper, the expatriate community is identified by compiling the data on the foreign born by place of birth in all OECD countries. The estimate is thus based on the place of birth and is not directly comparable to the other sources mentioned previously (see Table 2). One of the major problems with this approach is that it is not always possible to identify foreign-born persons who were citizens of their current country of residence at birth (e.g. children born overseas of national parents). This situation can be particularly problematic for countries which have had important communities abroad. Another problem arises from the fact that some people do not report their place of birth in censuses. Persons not specifying a place of birth represent 10% of the total population in the Slovak Republic, about 5.7% in Australia, and 4% in New-Zealand and Switzerland (see Table A1 in Annex 2). Furthermore, some censuses do not identify systematically all countries of origin (e.g. Korea only records 17 foreign nationalities in its Census). Consequently, the estimates presented in this paper on expatriates by country of origin should be considered a lower bound.

## Table II.2. OECD expatriates in other OECD countries

26. Expressed as a percentage of the total population of the given country, almost 24% of people born in Ireland are currently living in another OECD member country (see Chart 2). Other significant

expatriate communities include persons born in New Zealand (16%), Portugal (13.7%), Luxembourg (12.8%) and Mexico (9.9%).

# Chart II.2. Expatriates as a percentage of all native-born, OECD countries Total population and highly skilled

- A closer look at these first results reveals a number of other interesting findings. The Korean community in France for example, is larger than those of all the other European countries<sup>14</sup>; the Dutch are more numerous in Canada than in the United States; there are nearly 110 000 British-born persons in Spain<sup>15</sup>; there are approximately 450 000 people persons born in the United States living in Europe but 4.6 million persons born in Europe and living in the United States (of which 70 600 persons were born in Austria). Other examples include the high mobility among the Scandinavian countries, the high geographical dispersion of persons of German origin or the large numbers of persons born in France and living in Portugal or born in the United States and living in Mexico or Ireland. There are almost as many British-born persons in France (84 500) as there are French-born persons in the United Kingdom (96 300).
- 28. Even when information on the size of expatriate communities in member countries is available, there is not often information on the characteristics of this population. Speculation on the "brain drain" regularly feeds the media in certain countries, generally without credible statistical evidence. Some national studies exist (e.g. Hugo and alii, 2003; Barre and alii, 2003; Ferrand, 2001; Saint-Paul, 2004), but they do not always make it possible to cover the topic extensively.

## Table II.3. Number and distribution of OECD expatriates by level of education

- 29. Table 3 shows the distribution of educational attainment for expatriates from each OECD country living in other OECD countries. It reveals the relative importance of the migration of highly qualified persons (i.e. persons with tertiary education). It is for the United States and Japan that the proportion of expatriates with tertiary education is highest (almost 50%). The selectivity of emigration with respect to qualifications, measured by the difference between the proportion of expatriates and that of the native-born with tertiary-level attainment, highlights several European countries, notably France, Austria and Switzerland (at least 20 percentage point difference). Hungary and Denmark also have a relatively significant proportion of their expatriates who are graduates of higher education institutions compared to the native-born. On the other hand, emigration originating from Portugal, Turkey, Mexico or the Slovak Republic is essentially not highly qualified.
- With the notable exceptions of some Central and Eastern European Countries as well as 30. Mexico, Ireland, Korea and Finland, highly skilled immigration towards OECD countries from the rest of the world systematically exceeds highly skilled emigration from OECD countries to other OECD countries (see Chart 3)<sup>16</sup>. On this measure (and provided that expatriation of the highly skilled to non-OECD countries can be assumed to be relatively uncommon), most OECD countries would seem to benefit from the international mobility of the highly skilled.
- 31. Within the OECD area, only the United States, Australia, Canada, Switzerland, Spain, Sweden, Luxembourg and Norway (in this order) are net beneficiaries of highly skilled migration from other

<sup>14</sup> There are also a significant number of Japanese born-persons in France (14 300), i.e. more than Korean-born persons born in France (13 400), but fewer than Japanese-born persons living in the United Kingdom (37 500).

<sup>15</sup> These are likely to be mostly retired.

Stocks of persons, both emigrants and immigrants, are being considered here. In the case of Ireland, an analysis of net 16 flows of migrants would produce a rather different picture, including for the highly skilled.

OECD countries. The United Kingdom has 700 000 more highly skilled expatriates in OECD countries than it has highly skilled immigrants from other OECD countries. Comparable figures exceed 500 000 for Germany, 400 000 for Mexico, 300 000 for Poland. France and Belgium have almost as many highly skilled immigrants from, as expatriates to OECD countries. This of course gives only a partial picture of brain drain / brain exchange, because it does not include movements of the highly skilled between non-OECD and OECD countries. When movements from all countries to the OECD are included, the picture changes significantly.

# Chart II.3. Immigrant and emigrant population 15+ with tertiary education in OECD countries Thousands

32. The difference between the number of highly skilled emigrants to OECD countries and highly skilled immigrants from all countries is largely positive in the United States (+8.2 million), Canada and Australia, but also in France and Germany, even though these countries have a significant number of highly skilled expatriates in other OECD countries. Highly skilled immigration expressed as a percentage of the total highly skilled workforce is particularly significant (over 20%) in Australia, Luxembourg, Switzerland, Canada and New Zealand. The percentage of the highly skilled who are expatriates is below 10% for most OECD countries (see Chart 2) and particularly low in Japan, the United States, Spain and Australia. Conversely, more than 10% of the highly skilled born in Switzerland, Portugal, Austria, or the United Kingdom are living in other OECD countries. This percentage is over 20% for three countries: Luxembourg (22.2%), Ireland (24.2%) and New Zealand (24.2%). Table 4 clearly confirms the selective character of migration (in favour of the highly skilled) in OECD countries. This phenomenon is the result of pull factors attributable to selective migration policies in receiving countries, but also to other factors such as the fact that highly qualified persons are more tuned into the international labour market (because of social capital, language skills, access to information ...) and have more resources to finance a move.

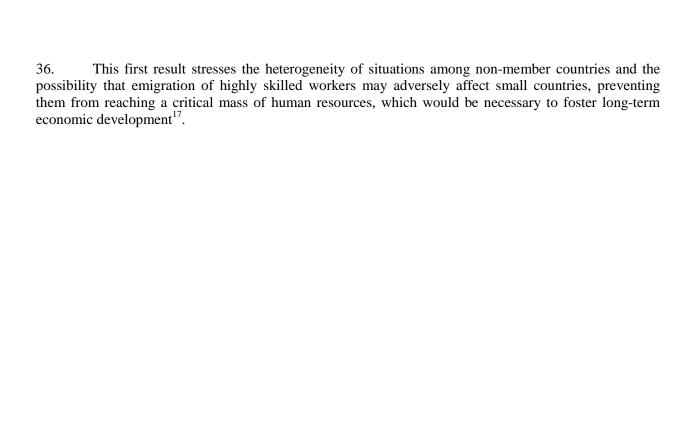
Table II.4. Percentages of persons with tertiary education by place of birth, selected OECD countries

4. Highly skilled migration from non-member countries towards OECD countries: new evidence on the "brain drain"

- Among non-member countries the biggest expatriate community is that originating in the former USSR with 4.2 million people, followed by the former Yugoslavia (2.2 million), India (1.9 million), the Philippines (1.8 million), China (1.7 million), Vietnam (1.5 million), Morocco (1.4 million) and Puerto Rico (1.3 million). Among persons with tertiary education, the former USSR still ranks first (1.3 million) with India having the second largest expatriate community (1 million). (See Table A6 in Annex 2)
- 34. To estimate 'emigration rates' by level of qualification for non-member countries, information on the level of education of the relevant population in the country of origin is required. Two sets of estimates have been compiled for such countries, based on two data sources (see Box 3). The results are presented in Table 5 for the 15 countries with the lowest 'emigration rates' for the highly qualified aged 15 and over as well as for the 15 countries with the highest rates. Most OECD countries, which are not included in Table 5, would tend to fall among countries having lower rates.

Table II.5. Highly skilled expatriates from selected non-OECD countries

35. Among countries with low 'emigration rates' of highly qualified persons (ie. inferior to 5%), we find most of the large countries included in the database (ie. Brazil, Indonesia, Bangladesh, India and China). At the other end of the spectrum, smaller countries, a number of which are islands such as Jamaica, Haiti, Trinidad and Tobago, Mauritius or Fiji, have more than 40% of their highly skilled populations abroad and sometimes as much as 80%. The importance of the size of the origin country is confirmed by simple correlation analysis (see Chart 4a).



Dumont (1999) shows that "convergence groups" can be identified based on the human capital stock (education and health) available at the beginning of the period considered.

#### Box 3. Estimation of 'emigration rates' by educational attainment and country of origin

Until the constitution of the data set described in this paper, there was limited data on the extent of international mobility of the highly skilled. One study by Carrington and Detragiache (1998), which has recently been updated by Adams (2003), relies on United States census data on the foreign-born and OECD immigrant stock data from the <u>Trends in International Migration</u> data base to construct a data base for emigration by level of education and by country of origin. The authors use the United States 1990 Census data to determine the educational profile of immigrants by country of birth and apply it to immigrants (in many cases, foreigners) living in other OECD countries to estimate the total stocks of migrants by level of education and country of origin. The Barro and Lee (1993) database on educational attainment levels is the source for the stock of the population by level of education in countries of origin. This then becomes the denominator of reference to estimate the emigration rates.

The estimates based on this methodology are subject to a number of limitations. One significant problem concerns the assumptions made because of data availability limitations. In particular, the foreign-born population in EU countries is assumed to be the foreign population and foreigners of a particular nationality are considered to have the same educational profile as the foreign-born of the United States. As a result the estimates tend to be problematical for small source countries and countries whose citizens tend to migrate to countries other than the United States. In addition, Cohen and Soto (2001) have shown that the Barro and Lee (1993) database on educational attainment is of uneven quality.

The database on immigrants and expatriates in OECD countries, which is the basis of this paper, has direct measures of the educational attainment of immigrants for all OECD receiving countries, and thus can avoid making the assumptions of previous studies. 'Emigration rates' can be produced by level of qualification and country of origin. The 'emigration rate' for country i and education level l ('Emigration rate<sub>i,l</sub>') is calculated by dividing the expatriate population from the country of origin i and level of education l (Expatriates i,l) by the total native-born population of the same country and level of education (Native Borni,l) (see also note 4). Three levels of qualification are considered (see Annex 1 for more details). Highly skilled persons correspond to those with a tertiary level of education.

Two sets of estimates of the *Resident Native born*<sub>i,l</sub> using two reference data bases for the structure of education of the population 15+ in origin countries have been produced. The first makes use of an updated version of Barro and Lee (1993) for the year 2000 which covers 113 countries (Barro and Lee, 2000). The second database covers 95 countries (Cohen and Soto, 2001). The authors of the latter have used the OECD education database plus some other sources for non-member countries to construct a new database on human capital stock in 2000. Data for the total population come from the World Development Indicators. A spearman rank correlation test confirms that the two calculations produce a similar classification ( $\rho$ =0.94), despite significant differences for some countries (e.g. Argentina, Chile, Zimbabwe, Singapore and Uruguay).

Because of differences in the population stocks between the World Bank figures and those obtained directly from OECD censuses (partly attributable to differences in reference years) and differences in the specification of levels of education, some differences appear when comparing the 'emigration rates' calculated for OECD countries from these two data sets with those discussed and presented earlier for OECD countries alone, based on census data.

The OECD database is available at www.oecd.org/migration

37. The world map (see Map 1) presents 'emigration rates' of the highly skilled for all countries, with African countries standing out as those having particularly high 'emigration rates'. Anglophone African countries as well as Portuguese-speaking countries (e.g. Mozambique and Angola, but also Cape Verde) record the highest brain drain rates. Emigration of the highly skilled is also quite significant in Central America but more moderate in Asia, with the relative exceptions of Hong Kong and Singapore. The former USSR faces intensive migration from former soviet republics towards Russia, which unfortunately it is not possible to illustrate here 18. However, emigration of the highly skilled from countries of the former USSR, considered as a whole, towards OECD countries remains moderate relative to the total stock of qualified persons in these countries.

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As the database only covers OECD countries, it is not possible to evaluate migration from former soviet Republics to Russia. For more information and estimates on this issue, see Eisenbaum (2005 forthcoming).

Map 1. Percentage of highly skilled expatriates to OECD countries among all highly skilled born in the country

38. Determinants of emigration of the highly skilled are not self-evident. Economic theory would predict that differences in wage levels and in returns to education between sending and receiving countries are significant elements. Charts 4b and c show that the correlation between the 'emigration rate' of people aged 15+ or of the highly skilled is not strongly correlated to the unemployment rate in origin countries or to GDP per capita at PPP<sup>19</sup>. On the other hand, Chart. 4d clearly illustrates the strong selectivity of migration in favour of the highly skilled. For almost all countries reviewed, the 'emigration rate' of the highly skilled exceeds that of persons 15 and over as a whole.

Chart 4. 'Emigration rates' for 15+ and highly skilled 15+ and demo-economic situation for non-OECD countries

5.Recent policy measures in OECD countries for facilitating the international recruitment of the highly skilled

- 39. The above paragraphs have provided a descriptive overview of, among others, movements of the highly skilled from and to OECD countries. The development of information technology and the growing role of human capital in economic growth have contributed to increasing the demand for skilled labour significantly in most OECD countries during the 1990s (OECD, 2002). IT competencies and skills, however, are not the only ones in demand. Population ageing in most OECD countries and the related increase in health care requirements are increasing the demand for medical personnel. Doctors, nurses, nursing auxiliaries and care assistants are particularly sought after in several member countries. The same applies to teachers, translators, human resources in science and technology (HRST) or in the biomedical or agro-food sectors, for example.
- 40. In the medium term in several OECD countries, retiring baby-boomers will generate relatively high demand for replacement labour in these and other specific occupations. While some and perhaps many of these vacancies will be filled by native-born new entrants and re-entrants to the work force, some will also be filled by immigrants.
- 41. Competition is keen among OECD member countries to attract human resources they lack and to retain those who might emigrate. Many countries amended their legislation in the late 1990s to facilitate the entry of skilled foreign workers and to allow foreign students to access their labour markets (under certain conditions and for specific occupations) upon graduation (see Tremblay, 2001 and OECD, 2004). Most countries introduced more flexibility into their existing labour migration policies, while others also launched more specific recruitment programmes to meet labour shortages (Doudeijns and Dumont, 2002). The recent economic downturn did not significantly affect this trend although some countries have reintroduced restrictions in some sectors.
- 42. In Denmark, France, Ireland, the Netherlands and the United Kingdom, the application of labour- market testing criteria has been relaxed for those occupations reflecting current labour market needs. These occupations include IT specialists, highly skilled workers and, in some cases, biotechnology,

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Since current migrant stocks reflect the cumulative impact of different historical migration waves, it is not entirely surprising to find no strong correlation with recent GDP per capita at PPPs or unemployment rates in origin countries. Ideally this analysis would be carried out using the difference in receiving and host-country unemployment rates together with the wage gap minus the expected cost of migration. Further analysis is needed to better understand the main determinants of international migration in general and of highly skilled migration in particular.

medicine, healthcare and education professionals, as specified, for example, in the United Kingdom's *Shortage Occupation List*<sup>20</sup>.

- 43. Although family preference is the cornerstone of permanent immigration policy in the United States, the country nonetheless admits a large number of permanent highly skilled foreign professionals (almost 180 000 in 2002), as well as highly skilled workers on renewable three-year visas (H-1B visas). This temporary immigration is subject to an annual quota which was set at 195 000 until the end of 2003 (it has been reduced to 65 000 since then). In 2001 in Switzerland, the quota for highly skilled workers was increased by almost 30% even though it had remained unchanged for more than 10 years prior to this. Japan and Korea share a determination to confine immigration to highly skilled workers. In the past ten years, high-skilled immigration has increased by 40% in Japan and more than ten-fold in Korea.
- 44. Some OECD countries have also created new programmes to facilitate the international recruitment of highly skilled workers. Norway and the United Kingdom, for instance, have introduced programmes to allow highly skilled foreign workers to come to seek work for a limited period of time. Although these programmes are still limited (approximately 5 000 persons for each country), they represent a significant change with regard to the usual migration policies of European countries, which generally require a job offer as a prerequisite for labour migration. Germany on its side has developed a special programme to recruit IT specialists, which has been extended until January 2005. Approximately 15 800 permits have been granted between August 2000 and January 2004. In addition, the German authorities have recently reformed their immigration law to facilitate the entry of highly skilled workers, such as engineers, computer technicians, researchers and business leaders.
- 45. In settlement countries, such as Australia, Canada and New Zealand<sup>21</sup>, permanent immigration is subject to a points system with an increasing emphasis on the potential immigrant's profile (age, education, skills, work experience). Permanent skilled immigration to these countries has significantly increased in the last four years (by almost 25%) and temporary immigration of highly skilled workers is facilitated more and more. More or less in the same vein, the Czech Republic has recently implemented a programme aiming at recruiting highly skilled workers through a point system.
- 46. In addition to immigration policy measures, some OECD countries have introduced specific fiscal incentives to attract highly skilled migrants (see Table 6). Some of these offer virtual income-tax-free status for up to 5 years for certain categories of highly qualified personnel most in need, or large tax deductions (e.g. 25% in Sweden, 30% in the Netherlands, 35% in Austria or 40% in Korea). New legislation along the same lines has been recently adopted in France and is under consideration in New Zealand.

Table 6. Fiscal incentives for highly skilled migrants

#### B. CONCLUSIONS

47. If receiving countries and migrants are generally believed to profit from the opening up of borders to international migration of highly skilled human capital, the impact on sending countries is not so clear. For instance, some observers have claimed that the increase in the expected return on human capital as a result of expatriation increases incentives to invest in human capital in sending countries and

<sup>20</sup> IT occupations were withdrawn from the list in the UK in 2002 because of the economic downturn in this sector. A special regulation for IT specialists was also rescinded in 2004 in France.

Following a comprehensive review of its skilled immigration policy, New Zealand has recently introduced a new Skilled Migrant Category to replace the General Skills Category. This change is a deliberate policy shift to promote the active recruitment of the skilled migrants that New Zealand needs (see Little 2004 for details).

that this increase is sufficient to off-set the depletion effect of emigration on human resources in these countries. This argument seems problematical, both theoretically and empirically<sup>22</sup>. On the other hand, the potential negative impact of emigration on the supply of human capital needs to be seen in the context of the employment situation in the origin country (the extent of participation and unemployment, the productivity of human capital). In many cases, expatriated professionals would have had few opportunities to work at home in their field.

- 48. Results presented in this paper based on the new database on immigrants and expatriates in OECD countries, show that:
  - The percentage of the foreign-born in European OECD countries is generally higher than the percentage of foreigners. Migration to a number of European countries (e.g. Sweden, Germany, Austria, Greece or France) is significantly higher than is generally reported and approaches levels that are as high in relative terms as observed, for example, in the United States.
  - The stock figures shown here reflect migration waves over a long period. Although recent migration to OECD countries tends to come largely from non-OECD countries, migration between OECD countries continues to have a significant impact. This migration is quite selective towards highly skilled migrants, underlining the effects of the current competition between member countries to attract 'the best and the brightest' from other countries, both inside and outside the OECD area.
  - In most OECD countries, the number of immigrants with tertiary education exceeds the number of highly qualified expatriates to other OECD countries. On this measure, most OECD countries would appear to benefit from the international mobility of the highly skilled. This conclusion, however, must be considered as tentative, because the database described here does not cover expatriates to OECD non-member countries.
  - Among non-member countries the impact of the international mobility of the highly skilled is diverse. The largest developing countries seem not be significantly affected and indeed may benefit from indirect effects associated with this mobility (return migration, technology transfers, remittances ...). At the other end of the spectrum, some of the smallest countries, especially in the Caribbean and in Africa, face significant 'emigration rates' of their elites. Further analysis is needed to better understand the determinants, the dynamics and the impact of the international mobility of the highly skilled on these countries.
- 49. No single, simple policy option could guarantee win-win outcomes, where all stakeholders (i.e. migrants, origin countries, receiving countries) would gain from the international mobility of the highly skilled workers in both the short and long run. Only broad-based approaches, which contribute to reducing push factors in origin countries, and to limit some of the adverse effects of international recruitment in receiving countries, can result in a significant sharing of the benefits attached to international mobility.

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Commander, Kangasniemi and Winters (2004) show that the conditions to be met to reach such a result are indeed very restrictive and depend on the size of migration flows, the type of selection process in receiving countries as well as the functioning of the education system in source countries.

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Table 1. Percentage of foreign-born and non-citizens in the total population in OECD countries

|                            | Percentage of foreign-born | Percentage of non-<br>citizens |
|----------------------------|----------------------------|--------------------------------|
| Mexico                     | 0.5                        |                                |
| Turkey                     | 1.9                        |                                |
| Poland                     | 2.1                        | 0.1                            |
| Slovak Republic            | 2.5                        | 0.5                            |
| Finland                    | 2.5                        | 1.7                            |
| Hungary                    | 2.9                        | 0.9                            |
| Czech Republic             | 4.5                        | 1.2                            |
| Spain                      | 5.3                        | 3.8                            |
| Portugal                   | 6.3                        | 2.2                            |
| Denmark                    | 6.8                        | 5.0                            |
| Norway                     | 7.3                        | 4.3                            |
| United Kingdom             | 8.3                        |                                |
| France                     | 10.0                       | 5.6                            |
| Netherlands                | 10.1                       | 4.2                            |
| Greece                     | 10.3                       | 7.0                            |
| Ireland                    | 10.4                       | 5.9                            |
| Belgium                    | 10.7                       | 8.2                            |
| Sweden                     | 12.0                       | 5.3                            |
| United States              | 12.3                       | 6.6                            |
| Germany                    | 12.5                       |                                |
| Austria                    | 12.5                       | 8.8                            |
| Canada                     | 19.3                       | 5.3                            |
| New Zealand                | 19.5                       |                                |
| Switzerland                | 22.4                       | 20.5                           |
| Australia                  | 23.0                       | 7.4                            |
| Luxembourg                 | 32.6                       | 36.9                           |
| Japan <sup>1</sup>         |                            | 1.0                            |
| Korea 1                    |                            | 0.3                            |
| Weighted average for above |                            |                                |
| countries                  | 7.8                        | 4.5                            |

<sup>1.</sup> In the absence of place-of-birth data for Japan and Korea, it has been assumed that all non-citizens are foreign-born and that nationals are native-born (see Annex 1 for further details).

*Source*: See Annex 1, Secretariat calculations and OECD 2003 for the percentage of foreigners in the United Kingdom and Germany.

Table 2. OECD expatriates in other OECD countries

|               | Nationals registered abroad              | Native-born living abroad |
|---------------|--|---------------------------|
| _             | at embassies or consultates <sup>1</sup> | (OECD Censuses)           |
| United States | 3 071 167                                | 1 227 249                 |
| France        | 1 392 764                                | 1 119 130                 |
| Switzerland   | 828 036                                  | 319 176                   |
| Australia     | 562 668                                  | 328 405                   |
| Japan         | 556 561                                  | 656 690                   |

<sup>1. 1999</sup> for France and the United States; 2000 for Switzerland; 2001 for Australia and Japan.

Sources: Nationals registered abroad at embassies or consulates: Australia: ABS Australian Demographic Statistics Quarterlies and Australian Department of Foreign Affairs and Trade; France: Ministère des Affaires étrangères, Direction des Français à l'étranger et des étrangers en France; Japan: Ministry of Foreign Affairs, Consular and Migration Affairs Department; Switzerland: DFAE, Service des Suisses de l'étranger; United States: US Census Bureau and Bureau of Consular Affairs; Native-born living abroad: OECD censuses (excluding Italy) and Secretariat calculations.

Table 3. Number and distribution of OECD expatriates by level of education

|                          | Tertiary                | Upper<br>secondary and<br>post-secondary<br>non-tertiary | Less than<br>upper       | unspecified | Total      |
|--------------------------|-------------------------|--|--------------------------|-------------|------------|
| Australia                | 116 513                 | 84 091   | secondary<br>53 308      | 13 402      | 267 314    |
| Australia                | 45.9                    | 33.1   | 21.0                     | 10 402      | 20/ 014    |
| Austria                  | 105 149                 | 164 504  | 80 401                   | 15 970      | 366 024    |
| 5.1.1                    | 30.0                    | 47.0   | 23.0                     | 7.040       | 004 544    |
| Belgium                  | 108 797<br><i>34.6</i>  | 104 109<br>33. <i>1</i>                                  | 101 295<br>32.2          | 7 343       | 321 544    |
| Canada                   | 417 750                 | 411 595  | 200 175                  | 15 458      | 1 044 978  |
|                          | 40.6                    | 40.0   | 19.4                     |             |            |
| Former CSFR              | 32 796                  | 46 232   | 29 781                   | 1 175       | 109 984    |
| Czech Republic           | 30.1<br>53 084          | <i>42.5</i> 106 613                                      | <b>27.4</b> 51 239       | 4 943       | 215 879    |
| Czecii Republic          | 25.2                    | 50.5   | 24.3                     | 4 943       | 213 67 9   |
| Denmark                  | 59 905                  | 61 958   | 38 317                   | 12 829      | 173 009    |
|                          | 37.4                    | 38.7   | 23.9                     |             |            |
| Finland                  | 67 358                  | 108 708  | 80 378                   | 8 801       | 265 245    |
| France                   | 26.3<br>348 432         | 42.4<br>313 538  | 31.3<br>294 700          | 56 911      | 1 013 581  |
|                          | 36.4                    | 32.8   | 30.8                     |             | . 0.0001   |
| Germany                  | 865 255                 | 1201 040   | 783 364                  | 84 098      | 2933 757   |
| 0                        | 30.4                    | 42.1   | 27.5                     | 00.707      | 705 400    |
| Greece                   | 118 318<br><i>16.6</i>  | 190 647<br>26.7  | 405 698<br><i>56.8</i>   | 20 767      | 735 430    |
| Hungary                  | 90 246                  | 129 452  | 85 451                   | 9 773       | 314 922    |
| • •                      | 29.6                    | 42.4   | 28.0                     |             |            |
| Iceland                  | 7 792                   | 8 552  | 5 223                    | 1 503       | 23 070     |
| Ireland                  | 36.1<br>186 554         | 39.7<br>143 679  | 24.2<br>347 073          | 115 010     | 792 316    |
| ireianu                  | 27.5                    | 21.2   | 51.2                     | 113 010     | 792 310    |
| Italy                    | 300 631                 | 619 946  | 1 395 714                | 114 048     | 2 430 339  |
|                          | 13.0                    | 26.8   | 60.3                     |             |            |
| Japan                    | 281 664<br><i>4</i> 9.7 | 220 158<br>38.9  | 64 529<br>11.4           | 9 641       | 575 992    |
| Korea                    | 134 926                 | 116 535  | 53 568                   | 7 509       | 312 538    |
|                          | 44.2                    | 38.2   | 17.6                     |             |            |
| Luxembourg               | 7 115                   | 8 252  | 10 179                   | 1 618       | 27 164     |
| Mexico                   | 27.9<br>472 784         | 32.3<br>2057 184   | 39.8<br>5 900 254        | 1 159       | 8 431 381  |
| MEXICO                   | 5.6                     | 24.4   | 70.0                     | 1 109       | 0 431 301  |
| Netherlands              | 209 988                 | 203 897  | 168 284                  | 34 740      | 616 909    |
|                          | 36.1                    | 35.0   | 28.9                     |             |            |
| New Zealand              | 166 854<br><i>44.6</i>  | 84 113<br>22.5   | 122 942<br>32.9          | 36 754      | 410 663    |
| Norway                   | 39 152                  | 45 054   | 31 263                   | 6 610       | 122 079    |
| ,                        | 33.9                    | 39.0   | 27.1                     |             |            |
| Poland                   | 328 058                 | 518 868  | 387 023                  | 42 533      | 1 276 482  |
| Portugal                 | 26.6                    | 42.0   | 31.4                     | 20.077      | 1 268 726  |
| Fortugal                 | 82 938<br>6.7           | 295 053<br>24.0  | 850 758<br><i>6</i> 9.2  | 39 977      | 1 400 / 20 |
| Slovak Republic          | 51 798                  | 168 803  | 150 445                  | 3 524       | 374 570    |
|                          | 14.0                    | 45.5   | 40.5                     |             |            |
| Spain                    | 137 708                 | 204 284  | 392 793                  | 28 228      | 763 013    |
| Sweden                   | 18.7<br>78 054          | 27.8<br>74 559   | 53.5<br>42 167           | 11 824      | 206 604    |
| J., 54011                | 40.1                    | 38.3   | 21.6                     | 11024       | _30 004    |
| Switzerland              | 93 859                  | 94 918   | 68 182                   | 5 497       | 262 456    |
| Turkey                   | 36.5                    | 36.9   | 26.5                     | 44.750      | 2 405 045  |
| Turkey                   | 138 323<br><i>6.4</i>   | 467 630<br>21.7  | 1 547 933<br><i>71.9</i> | 41 759      | 2 195 645  |
| United Kingdom           | 1 265 863               | 1 006 180  | 798 421                  | 159 212     | 3 229 676  |
|                          | 41.2                    | 32.8   | 26.0                     |             |            |
| United States            | 390 244                 | 220 869  | 170 665                  | 27 762      | 809 540    |
| Note: Population aged 15 | 49.9                    | 28.3   | 21.8                     |             |            |

Note: Population aged 15 and over. Percentage calculations do not take account of unspecified cases. Sources: See Annex 1, Secretariat calculations.

Table 4. Persons with tertiary education by place of birth, selected OECD countries

Percentages

|               | Native-Born | Foreign-Born | Expatriates |
|---------------|-------------|--------------|-------------|
| Canada        | 31.5        | 38.0         | 40.6        |
| France        | 16.9        | 18.1         | 36.4        |
| Germany       | 19.5        | 15.5         | 30.4        |
| Hungary       | 10.7        | 19.8         | 29.6        |
| Korea         | 26.7        | 32.2         | 44.2        |
| New Zealand   | 27.2        | 31.0         | 44.6        |
| Sweden        | 22.8        | 24.2         | 40.1        |
| Switzerland   | 18.1        | 23.7         | 36.5        |
| United States | 26.9        | 24.8         | 49.9        |

Source: see Annex 1, Secretariat calculations.

Table 5. Highly skilled expatriates from selected non-OECD countries <sup>1</sup> Percentages of total expatriates

| -  | Cohen and Soto (2001)   | Highly<br>skilled aged<br>15+ | Barro and Lee (2000) | Highly<br>skilled aged<br>15+ |
|--|-------------------------|-------------------------------|----------------------|-------------------------------|
|  | <u></u>                 |                               | _                    |                               |
| est<br>15+<br>ies  | Brazil                  | 1.7                           | Brazil               | 1.2                           |
| ntr  | Myanmar                 | 1.7                           | Thailand             | 1.4                           |
| re l   | Indonesia               | 1.9                           | Indonesia            | 1.5                           |
| r sk<br>D C  | Thailand                | 1.9                           | Paraguay             | 1.8                           |
| 15 non- OECD countries with the <u>lowest</u><br>percentage of highly skilled 15+<br>expatriates in OECD countries | Bangladesh              | 2.0                           | Argentina            | 1.8                           |
| ss ۱<br>hig  | Paraguay                | 2.0                           | China                | 2.4                           |
| trie<br>of<br>s ir   | Nepal                   | 2.1                           | Myanmar              | 2.4                           |
| ge<br>ate  | India                   | 3.1                           | Peru                 | 2.7                           |
| nta  | Bolivia                 | 3.1                           | Nepal                | 2.9                           |
| Se Se  | China                   | 3.2                           | Bangladesh           | 3.0                           |
| OE<br>pel<br>e   | Jordan                  | 3.2                           | Bolivia              | 3.1                           |
| Ļ  | Venezuela               | 3.3                           | India                | 3.4                           |
| n<br>n   | Costa Rica              | 4.0                           | Egypt                | 3.4                           |
| 15   | Syria                   | 4.3                           | Venezuela            | 3.5                           |
|  | Egypt                   | 4.4                           | Swaziland            | 3.5                           |
|  |                         |                               |                      |                               |
| est<br>5+<br>ies   | Guyana                  | 83.0                          | Guyana               | 76.9                          |
| gh<br>ntr  | Jamaica                 | 81.9                          | Jamaica              | 72.6                          |
| ille<br>ille   | Haiti                   | 78.5                          | Guinea-Bissau        | 70.3                          |
| the<br>sk<br>D o   | Trinidad and Tobago     | 76.0                          | Haiti                | 68.0                          |
| ith<br>hly<br>EC   | Fiji                    | 61.9                          | Trinidad and Tobago  | 66.1                          |
| 15 non-OECD countries with the <u>highest</u><br>percentage of highly skilled 15+<br>expatriates in OECD countries | Angola                  | 53.7                          | Mozambique           | 52.3                          |
| rie:<br>of<br>s ir   | Cyprus                  | 53.3                          | Mauritius            | 50.1                          |
| unt<br>ge<br>ate   | Mauritius               | 53.2                          | Barbados             | 47.1                          |
| col<br>nta<br>atri   | Mozambique              | 47.1                          | Fiji                 | 42.9                          |
| X ce   | Ghana                   | 45.1                          | Gambia               | 42.3                          |
| )E(  | United Rep. of Tanzania | 41.7                          | Congo                | 33.7                          |
| )-u  | Uganda                  | 36.4                          | Sierra Leone         | 32.4                          |
| ou   | Kenya                   | 35.9                          | Ghana                | 31.2                          |
| 15   | Burundi                 | 34.3                          | Kenya                | 27.8                          |
|  | Sierra Leone            | 33.3                          | Cyprus               | 26.0                          |
|  |                         |                               |                      |                               |

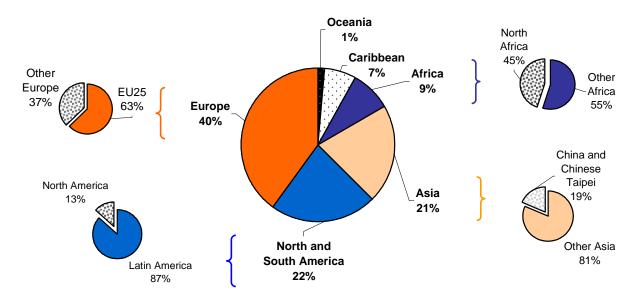
<sup>1.</sup> Two different sources for the educational attainment of non-OECD countries have been used. They are identified at the top of each column. See Box 3 and bibliography for the detailed references.

Table 6. Fiscal incentives for highly skilled immigrants

| A4                                  | To adopt a second business specific ability of the second |
|-------------------------------------|---|
| Australia                           | In order to encourage businesses requiring a skilled labour force to locate in Australia, since July 1, 2002,   |
| A 4                                 | foreign source income of eligible temporary residents is exempt from tax for 4 years.   |
| Austria                             | An individual who has not had a residence in Austria during the past 10 years, who maintains his primary residence abroad and has an assignment with an Austrian employer for less than 5 years benefits from tax   |
|                                     | deductions for up to 35% of the taxable salary income for expenses incurred in maintaining a household  |
|                                     | in Austria, educational expenses and leave allowances.  |
| Belgium                             | Certain foreign executives, specialists and researchers residing temporarily in Belgium are eligible for a  |
| Deigium                             | special tax regime that treats them as non-residents. Taxable income is calculated by adjusting the   |
| İ                                   | remuneration according to the number of days spent outside Belgium. Reimbursements of expenses  |
| İ                                   | incurred by an employee as a result of his temporary stay in Belgium are not subject to personal income   |
|                                     | tax.  |
| Denmark                             | A special expatriate tax regime applies to foreigners employed by Danish-resident employers. Under  |
| İ                                   | qualifying contracts, salary income is taxed at a flat rate of 25% instead of the usual rates of 39% to 59%.  |
| İ                                   | To qualify, expatriates must reside in Denmark and earn more than 50 900 DKK a month in 2001. This  |
|                                     | tax regime is valid for up to 36 months.  |
| Finland                             | A foreigner working in Finland may qualify for a special tax at a flat rate of 35% during a period of 24  |
|                                     | months if he receives any Finnish-source income for duties requiring special expertise and earns a cash   |
|                                     | salary of €5,800 or more per month. This law provides that the expert has not been resident in Finland  |
|                                     | any time during the five preceding years.   |
| France                              | Recent legislation changes which aim at encouraging foreign professionals to work in France include a 5-  |
|                                     | year tax exemption for bonuses paid to foreign expatriates where these are directly related to their  |
|                                     | assignment in France, and tax deductions for social security payments made by the expatriates in their home countries. A deduction will also be available for pension and health care payments made   |
|                                     | outside France. It applies to foreign professionals (including French nationals with a foreign labour   |
|                                     | contract who have been residing out of France for a least 10 years) coming to France from 1 January   |
|                                     | 2004.   |
| Japan                               | For expatriates living in Japan, relocation allowances and once-a-year home-leave allowances are  |
|                                     | generally tax-free  |
| Korea                               | Since January 2003, tax-free allowances of up 40 per cent of salary to cover cost of living, housing, home  |
|                                     | leave and education. Tax-exempt salary for certain sectors for up to 5 years if the individual is (i)   |
|                                     | employed under a tax-exempt technology-inducement contract or (ii) a foreign technician with experience   |
|                                     | in certain industries.  |
| Netherlands                         | Expatriates may qualify for a special facility called the "30 per cent" (previously the "35 per cent"). This  |
|                                     | enables an employer to pay, for up to 10 years, employees seconded in the Netherlands a tax-free  |
|                                     | allowance of up to 30% of regularly received employment income and a tax-free reimbursement of school   |
| N 7 1 1                             | fees for children attending international schools.  |
| New Zealand                         | A government discussion document, released in November 2003, outlines proposals to exempt the   |
|                                     | foreign-sourced income of certain migrants and returning New Zealanders from New Zealand's international tax regime. It is aimed at ensuring that New Zealand's tax system does not discourage the  |
|                                     | recruitment of overseas employees. The Government has proposed two possible approaches:   |
|                                     | a narrow exemption that would apply for seven years and focus on those tax rules that are more  |
|                                     | comprehensive than the international norm; and  |
|                                     | •   |
|                                     | <ul> <li>a second option that would apply for three years and provide eligible taxpayers with a broad<br/>exemption from paying New Zealand tax on all foreign-sourced income.</li> </ul>   |
| Norway                              | Expatriates expected to reside in Norway for 4 years or less may be allowed a 15 per cent standard  |
| 1101 way                            | deduction from their gross income instead of itemised personal deductions.  |
| Canada                              | Researchers can benefit from 5-year tax relief in the province of Québec on 75% of their personal income  |
| Cumuua                              | if they settle in Quebec to work in R&D in a firm.  |
| Sweden                              | Since 1st January 2001 foreign key personnel who are experts and scientists with knowledge and skills   |
| · · · · · · · · · · · · · · · · · · | that are scarce in Sweden may benefit from a new expatriate regime. No taxes are paid for the first 25%   |
|                                     | of their income. This is valid for a maximum period of 10 years.  |
| United                              | Persons who are seconded to the UK and declare their intention to remain in the UK on a temporary basis,  |
| Kingdom                             | can claim tax relief on their housing costs and traveling costs. Non-ordinary residents can also claim tax  |
|                                     | relief for days worked outside the UK.  |
| C IIIZII                            | me Treasury (2003) Frost and Young (2001) and national ministries   |

Sources: UK Home Treasury (2003), Ernst and Young (2001) and national ministries.

Chart 1. Foreign-born by region of origin in OECD countries, percentages



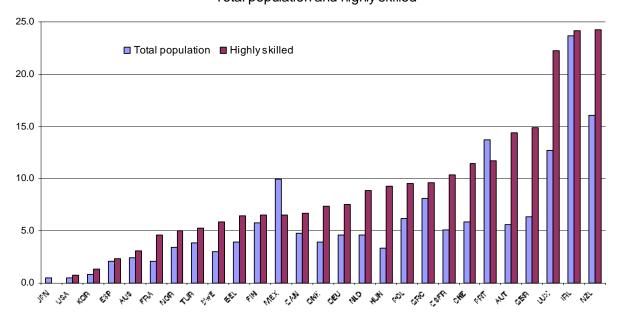
Note: "Other Europe" and "Other Africa" include data for not stated European countries and

not stated African countries, respectively.

Source: See Annex 1, Secretariat calculations.

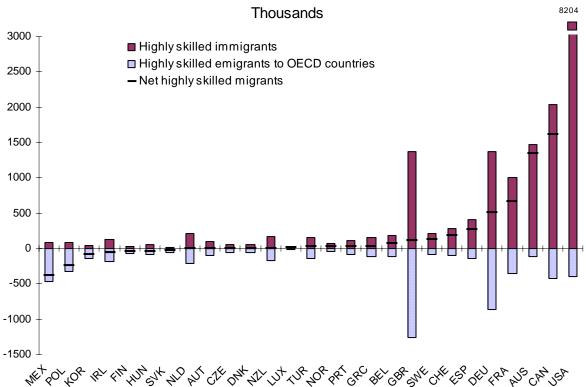
Chart 2. Expatriates as a percentage of all native-born, OECD countries

Total population and highly skilled



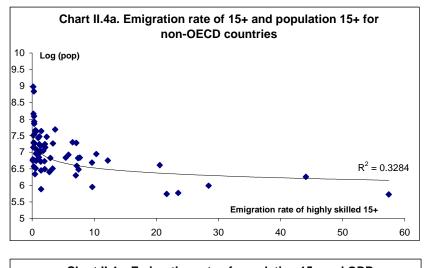
Note: CSFR stands for "Former Czechoslovakia". Data for Korea are partial as several OECD countries do not systematically distinguish between people born in the Democratic Republic of Korea and in the People's Republic of Korea.

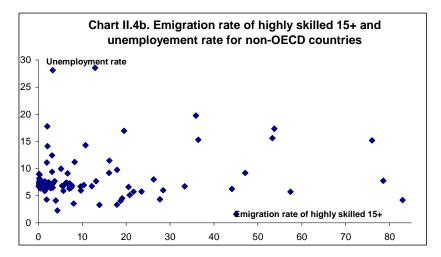
Chart 3. Immigrant and emigrant population aged 15+ with tertiary education in OECD countries

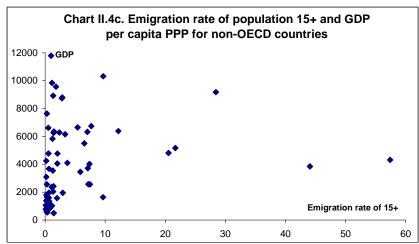


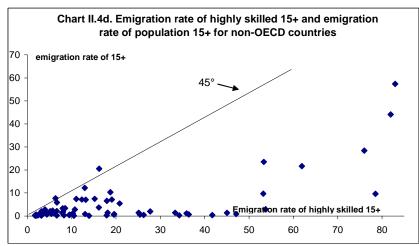
*Note:* Data for Korean emigrants are partial as several OECD countries do not systematically distinguish between the Democratic Republic of Korea and the People's Republic of Korea. *Source:* see Annex 1, Secretariat calculations.

Chart 4. Emigration rates for total and highly skilled populations and various socio-economic characteristics for non-OECD countries









Note: Calculations are made on population 15 and over. The regression curves represent a power regression in Chart 4a and a logarithmic regression in Chart II.4c. Sources: Emigration rates are calculated with Cohen and Soto (2001) data. Data on unemployment come from the ILO (Laborsta) and data on GDP per capital at PPP (2001) from World Bank (WDI).

#### ANNEX 1. DATA SOURCES AND DATA AVAILABILITY

Of the 29 countries taking part in the project, 23 have population censuses and seven have population registers. Other sources were identified by some countries but the census or the population register is generally the most suitable source (see attached table on data sources).

For the great majority of the countries involved, data by country of birth are available. For some countries the situation is, however, more problematic. In the cases of Japan, for example, the data by country of origin and level of education were not published or processed at the time of the drafting of this note even if they appear in the census. In the case of the Netherlands, the data on education are not available from the population register and it was thus necessary to use the labour force survey averaged over several years (2000-2002), in order to estimate the foreign-born by level of education and country of birth (for those countries of birth for which there were samples large enough to support reliable estimates).

Korea and Japan do not identify the foreign-born in their censuses. For these countries, because naturalisations are rare, nationality can serve as a reasonable proxy for country of birth. This approximation was not possible, however, in the case of Germany where the only data available, from the annual Microcensus (1999-2002), does not record the place of birth, although it does record the nationality and whether or not a person was born in Germany. In this case to compile data on expatriates the following assumptions and adjustments were made: i) for non-German citizens born abroad, it was assumed that their place of birth was the same as their nationality, ii) for "unknown" place of birth or nationality in the Microcensus, a response was attributed according to the distribution observed when a response was available, iii) for German citizens born abroad, the German Socioeconomic Panel, which does identify the place of birth, was used for those countries for which the sample was large enough to produce reliable estimates. The data included in the publicly available file, however, does not include the adjustments which were made through the GSOEP.

With regard to the structure of the levels of qualification retained, it was decided to take into consideration five levels compatible with the International Standard Classification of Education (ISCED): ISCED 0/1/2: Less than upper secondary; ISCED 3/4: Upper secondary and post-secondary non-tertiary; ISCED 5A: "Academic" tertiary; ISCED 5B: "Vocational" tertiary; ISCED 6: Advanced research programmes. The detail at the higher levels, however, was available only for a subset of countries. For France, Switzerland, Luxembourg and Austria 5A and 6 are not distinguishable; for the United States, Turkey, Mexico and Spain 5A and 5B are not distinguishable; for the Slovak Republic, Korea, Netherlands and Hungary 5A, 5B and 6 are not distinguishable.

The objective was to minimize residual (i.e. "other") categories, with regard to the coding of countries of birth. An attempt was made to preserve the maximum information available while distinguishing between continental/regional residual categories whenever this was possible (ie. "other Africa", "other Europe", "other Asia", "other South and Central America and Caribbean", "other Oceania", "other North America").

With regard to split, recomposed or newly constituted countries, there was little choice but to respect the coding in the national data collection, which varies from one country to another. In the United States, for example, people born in Korea have the choice of three ways to indicate their country of birth: Korea, North Korea or South Korea. More than 80% of them (80% of the nationals and 85% of foreigners) indicated having been born in Korea<sup>23</sup>, without further specification. In the censuses of many member

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<sup>&</sup>lt;sup>23</sup> It is not possible to distinguish between Koreans who emigrated to the United States before and after 1953.

countries the Czech Republic and Slovak Republic are aggregated under the name of the former Czechoslovakia. The same applies to the former USSR and the former Yugoslavia and Yemen.

To produce a consistent list of countries of birth across receiving countries, some minor adjustments had to be made, especially with respect to small islands and overseas territories. This recoding explains the small differences that might exist with national estimates for foreign born and native born populations. The following recodings were carried out.

| AUS                             | DNK                                | FRA                 | GBR                                 | PRT                                | USA <sup>24</sup>                   |
|---------------------------------|------------------------------------|---------------------|-------------------------------------|------------------------------------|-------------------------------------|
| <ul> <li>Heard &amp;</li> </ul> | <ul> <li>Faeroe Islands</li> </ul> | French southern     | <ul> <li>Channel Islands</li> </ul> | <ul> <li>Madeira</li> </ul>        | <ul> <li>US minor island</li> </ul> |
| McDonald                        |                                    | territories         |                                     | Islands                            |                                     |
| Islands                         | <ul> <li>Greenland</li> </ul>      | Tromelin Island     | <ul> <li>Isle of Sark</li> </ul>    | <ul> <li>Azores Islands</li> </ul> | <ul> <li>Christmas isle</li> </ul>  |
|                                 |                                    | Guadeloupe          | Isle of Man                         |                                    | <ul> <li>Wake Island</li> </ul>     |
|                                 |                                    | Martinique          |                                     |                                    | Palmyra Atoll                       |
|                                 |                                    | Reunion             |                                     |                                    | <ul> <li>Navassa Island</li> </ul>  |
|                                 |                                    | Juan De Nova Island |                                     |                                    | <ul> <li>Midway Islands</li> </ul>  |
|                                 |                                    | Guyane              |                                     |                                    | Johnston Atoll                      |
|                                 |                                    | Mayotte             |                                     |                                    | <ul> <li>Howland Island</li> </ul>  |
|                                 |                                    | Saint-Pierre-et-    |                                     |                                    | Baker Island                        |
|                                 |                                    | Miquelon            |                                     |                                    |                                     |

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<sup>&</sup>lt;sup>24</sup> People born in Puerto Rico are considered as foreign born in the United States.

# **Data sources**

| Country               | Data year(s)      | ISO code | Type of source | Source description                                    |
|-----------------------|-------------------|----------|----------------|---|
| Australia             | 2001              | AUS      | CEN            | Australian Census of Population & Housing             |
| Austria               | 2001              | AUT      | CEN            | Census of Population                                  |
| Belgium               | 2001              | BEL      | GSS            | General Socio-Economic Survey                         |
| Canada                | 2001              | CAN      | CEN            | Census of Population                                  |
| Czech Rep             | 2001              | CZE      | CEN            | Census of population                                  |
| Denmark               | Yearly since 1981 | DNK      | REG            | Register-based population and labour force statistics |
| Finland               | Yearly            | FIN      | REG            | Population statistics                                 |
| France                | 1999              | FRA      | CEN            | Census of Population                                  |
| Germany               | Yearly            | DEU      | LFS            | Microcensus   |
| Greece                | 2001              | GRC      | CEN            | Census of population                                  |
| Hungary               | 2001              | HUN      | CEN            | Census of Population                                  |
| Ireland               | 2002              | IRL      | CEN            | Census of Population                                  |
| Italy                 | 2001              | ITA      | CEN            | Census of Population                                  |
| Japan                 | 2000              | JPN      | CEN            | Census of Population                                  |
| Korea                 | 2000              | KOR      | CEN            | Census of population                                  |
| Luxembourg            | 2001              | LUX      | CEN            | Census of Population                                  |
| Mexico                | 2000              | MEX      | CEN            | Census of population                                  |
|                       |                   |          |                | Matched data from the Population Registers, the Tax   |
| Netherlands           | 1995-2000         | NDL      | REG            | Department and the Ministry of Justice                |
| Netherlands           | Yearly            | NDL      | LFS            | Labour Force Survey                                   |
| New Zealand           | 2001              | NZL      | CEN            | Census of Population and Dwellings                    |
| Norway                | Varies            | NOR      | REG            | Various administrative and statistical registers      |
| Poland                | 2001              | POL      | CEN            | Census of population                                  |
| Portugal              | 2001              | PRT      | CEN            | Census of population                                  |
| Slovak Rep            | 2001              | SVK      | CEN            | Census of population                                  |
| Spain                 | 2001              | ESP      | CEN            | Census of Population                                  |
| Sweden                | Yearly            | SWE      | REG            | Total Population Register TPR                         |
| Sweden                | Yearly            | SWE      | EDU            | Education register                                    |
| Switzerland           | 2000              | CHE      | CEN            | Census of Population                                  |
| Turkey                | 2000              | TUR      | CEN            | Census of Population                                  |
| <b>United Kingdom</b> | 2001              | GBR      | CEN            | Census of Population                                  |
| <b>United States</b>  | 2000              | USA      | CEN            | Census 5% Public Use Microdata Sample                 |

# ANNEX 2

| Table A1. Stoc   | ks and perce | ntages of non- | citizens and | oreign-bor | n in OECD c | ountries (Total | population) |          |                   |             |                |                   | 1       |           |
|------------------|--------------|----------------|--------------|------------|-------------|-----------------|-------------|----------|-------------------|-------------|----------------|-------------------|---------|-----------|
|                  |              |                |              |            |             |                 |             |          |                   |             | Percentage of  | Percentage of non | 4       |           |
|                  |              | Native-born    |              |            |             | Foreign-born    |             |          | Unspecified place |             | foreign-born 1 | citizens          |         |           |
|                  | Citizens     | Non-Citizens   | Unspecified  | Total      | Citizens    | Non-Citizens    | Unspecified | Total    | of birth          | Grand Total |                |                   |         | Year      |
| AUS              | 13411351     | 34173          | 183963       | 13629487   | 2739559     | 1263728         | 69926       | 4073213  | 1066542           | 18769242    | 23.0           | 7.4               | AUS     | 2001      |
| AUT              | 6913512      | 115840         | 175          | 7029527    | 408093      | 593420          | 1019        | 1002532  | 867               | 8032926     | 12.5           | 8.8               | AUT     | 2001      |
| BEL              | 9001480      | 194443         | 514          | 9196437    | 447555      | 650705          | 935         | 1099195  | 718               | 10296350    | 10.7 (9.3)     | 8.2               | BEL     | 2002      |
| CAN              | 23920315     | 1725           |              | 23922040   | 4150095     | 1566920         |             | 5717015  |                   | 29639055    | 19.3 (19.0)    | 5.3               | CAN     | 2001      |
| CHE              | 5109295      | 338107         |              | 5447402    | 459569      | 1111187         |             | 1570756  | 269852            | 7288010     | 22.4 (20.2)    | 20.5              | CHE     | 2000      |
| CZE              | 9556459      | 20018          | 607          | 9577084    | 357355      | 90411           | 711         | 448477   | 204499            | 10230060    | 4.5            | 1.2               | CZE     | 2001      |
| DEU              |              |                | 71973166.2   | 71973166   |             |                 | 10256083.8  | 10256084 |                   | 82229250    | 12.5           |                   | DEU     | 1999-2002 |
| DNK              | 4939264      | 42973          |              | 4982237    | 145508      | 215545          |             | 361053   | 25064             | 5368354     | 6.8            | 5.0               | DNK     | 2002      |
| ESP              | 38603844     | 71326          |              | 38675170   | 671514      | 1500687         |             | 2172201  |                   | 40847371    | 5.3            | 3.8               | ESP     | 2001      |
| FIN              | 5031826      | 12928          | 158          | 5044912    | 54131       | 75867           | 1450        | 131448   | 4755              | 5181115     | 2.5            | 1.7               | FIN     | 2000      |
| FRA              | 52142848     | 509598         |              | 52652446   | 3114654     | 2753588         |             | 5868242  |                   | 58520688    | 10.0 (7.4)     | 5.6               | FRA     | 1999      |
| GBR              |              |                | 53923642     | 53923642   |             |                 | 4865563     | 4865563  |                   | 58789205    | 8.3            |                   | GBR     | 2001      |
| GRC              | 9705670      | 105248         | 285          | 9811203    | 466165      | 656382          | 93          | 1122640  | 254               | 10934097    | 10.3           | 7.0               | GRC     | 2001      |
| HUN              | 9896815      | 8520           | 49           | 9905384    | 208259      | 84485           | 187         | 292931   |                   | 10198315    | 2.9            | 0.9               | HUN     | 2001      |
| IRL              | 3405941      | 7290           | 45248        | 3458479    | 179034      | 216971          | 4011        | 400016   |                   | 3858495     | 10.4           | 5.9               | IRL     | 2002      |
| JPN <sup>2</sup> | 125625759    |                |              | 1.26E+08   |             | 1294341         |             | 1294341  |                   | 126920100   |                | 1.0               | JPN (2) | 2001      |
| KOR <sup>2</sup> | 45985289     |                |              | 45985289   |             | 135105          | 15707       | 150812   |                   | 46136101    |                | 0.3               | KOR (2) | 2000      |
| LUX              | 257446       | 37249          |              | 294695     | 18590       | 124062          |             | 142652   | 2192              | 439539      | 32.6           | 36.9              | LUX     | 2001      |
| MEX              |              |                | 94925622     | 94925622   |             |                 | 492617      | 492617   | 2065173           | 97483412    | 0.5            |                   | MEX     | 2000      |
| NLD              | 14268673     | 103025         |              | 14371698   | 1050600     | 564777          |             | 1615377  |                   | 15987075    | 10.1           | 4.2               | NLD     | 2001      |
| NOR              | 4195719      | 22752          | 12           | 4218483    | 158865      | 174875          | 29          | 333769   |                   | 4552252     | 7.3 (6.7)      | 4.3               | NOR     | 2003      |
| NZL              | 2890869      |                |              | 2890869    | 22212       |                 | 676335      | 698547   | 147813            | 3737229     | 19.5           |                   | NZL     | 2001      |
| POL              | 36765038     | 10135          | 96108        | 36871281   | 741880      | 29748           | 3654        | 775282   | 583517            | 38230080    | 2.1            | 0.1               | POL     | 2002      |
| PRT              | 9692065      | 11987          | 593          | 9704645    | 431357      | 219633          | 482         | 651472   |                   | 10356117    | 6.3            | 2.2               | PRT     | 2001      |
| SVK              | 4673150      | 5888           | 41592        | 4720630    | 98392       | 18403           | 2277        | 119072   | 539753            | 5379455     | 2.5            | 0.5               | SVK     | 2001      |
| SWE              | 7826472      | 71123          |              | 7897595    | 672990      | 404606          |             | 1077596  | 479               | 8975670     | 12.0           | 5.3               | SWE     | 2003      |
| TUR              |              |                | 66525256     | 66525256   | 997314      | 262061          |             | 1259375  | 1155              | 67785786    | 1.9            |                   | TUR     | 2000      |
| USA              | 246787150    |                |              | 2.47E+08   | 16069523    | 18565268        |             | 34634791 |                   | 281421941   | 12.3 (11.1)    | 6.6               | USA     | 2000      |
| Total            | 690606250    | 1724348        | 287716990    | 9.8E+08    | 33663214    | 32572775        | 16391079.8  | 82627069 | 4912633           | 1067587290  | 7.8            | 4.5               | Total   |           |

Figures in parentheses indicate the percentage of foreign-born in total population after excluding foreign-born citizens at birth.
 In the absence of place of birth for Japan and Korea, it has been assumed that all non-citizens are foreign-born and that nationals are native-born (see annex 1 for further details).

Table A2. Acquisition of citizenship in receiving countries

Percentage of foreign born with Foreign-born with the citizenship of Total number of the citizenship of the the country of country of residence foreign-born residence AUS 4 003 287 2 739 559 68.4 AUT 1 001 513 408 093 40.7 BEL 1 098 260 447 555 40.8 CAN 5 717 015 4 150 095 72.6 CHE 1 570 756 459 569 29.3 CZE 447 766 357 355 79.8 DNK 361 053 145 508 40.3 **ESP** 30.9 2 172 201 671 514 FIN 129 998 54 131 41.6 FRA 5 868 242 3 114 654 53.1 GRC 1 122 547 41.5  $466\ 165$ HUN 292 744 208 259 71.1 IRL 396 005 179 034 45.2 LUX 13.0 142 652 18 590 NLD 1 615 377 1 050 600 65.0 NOR 333 740 158 865 47.6 POL  $771\ 628$ 741 880 96.1 PRT 650 990 431 357 66.3 SVK 116 795 98 392 84.2 SWE 1 077 596 62.5 672 990 USA 34 634 791 16 069 523 46.4

Sources: see Annex 1, Secretariat calculations.

Table A3. Stocks of total foreign-born by region of origin, OECD countries

|       | of which: China and |                            |      |            |                      |      |            |           |           |           |            |            |                      |
|-------|---------------------|----------------------------|------|------------|----------------------|------|------------|-----------|-----------|-----------|------------|------------|----------------------|
|       |                     | of which:<br>North African |      |            | China and<br>Chinese |      | Latin      | North     |           |           |            | Other      |                      |
|       | Africa              | countries                  | %    | Asia       | Taipei               | %    | America    | America   | Caribbean | Oceania   | EU25       | Europe     | Unspecified          |
| AUS   | 191 501             | 2 573                      | 1.3  | 1 115 655  | 232 320              | 20.8 | 74 893     | 81 018    | 32 000    | 423 428   | 1 889 893  | 264 819    | 6 AUS                |
| AUT   | 19 934              | 3 560                      | 17.9 | 57 236     | 8 254                | 14.4 | 6 054      | 9 029     |           | 1 931     | 364 624    | 527 007    | 16 717 <b>AUT</b>    |
| BEL   | 247 515             | 139 799                    | 56.5 | 68 494     | 9 410                | 13.7 | 20 387     | 18 071    | 3 976     | 1 468     | 621 471    | 117 787    | 12 <b>BEL</b>        |
| CAN   | 323 580             | 52 485                     | 16.2 | 2 040 590  | 657 930              | 32.2 | 336 570    | 287 465   | 285 295   | 53 215    | 2 014 255  | 375 710    | 335 CAN              |
| CHE   | 68 801              | 21 153                     | 30.7 | 101 599    | 8 318                | 8.2  | 48 327     | 29 319    | 8 834     | 4 787     | 854 305    | 352 962    | 101 822 <b>CHE</b>   |
| CZE   | 2 374               | 588                        | 24.8 | 21 365     | 1 251                | 5.9  | 870        | 2 687     | 595       | 341       | 344 256    | 75 989     | CZE                  |
| DEU   | 175 665             | 51 230                     | 29.2 | 567 021    |                      |      | 47 578     | 81 308    |           |           | 2 552 578  | 5 244 548  | 1 587 387 <b>DEU</b> |
| DNK   | 31 875              | 6 520                      | 20.5 | 110 454    | 4 590                | 4.2  | 9 208      | 11 123    | 785       | 2 249     | 118 004    | 77 355     | DNK                  |
| ESP   | 423 082             | 343 819                    | 81.3 | 86 669     | 28 848               | 33.3 | 744 221    | 25 141    | 95 979    | 4 443     | 597 948    | 194 676    | 42 <b>ESP</b>        |
| FIN   | 9 713               | 1 783                      | 18.4 | 18 375     | 2 120                | 11.5 | 1 817      | 4 086     | 261       | 750       | 51 681     | 44 764     | 1 FIN                |
| FRA   | 2 862 569           | 2 296 979                  | 80.2 | 444 774    | 36 831               | 8.3  | 79 987     | 58 398    | 24 836    | 6 211     | 1 978 923  | 412 539    | 5 FRA                |
| GBR   | 838 459             | 26 088                     | 3.1  | 1 579 133  | 154 111              | 9.8  | 95 357     | 238 043   | 232 940   | 170 278   | 1 493 235  | 175 577    | 42 541 <b>GBR</b>    |
| GRC   | 58 275              | 1 416                      | 2.4  | 75 854     | 671                  | 0.9  | 5 486      | 35 683    | 1 128     | 21 111    | 191 038    | 733 183    | 882 <b>GRC</b>       |
| HUN   | 2 687               | 517                        | 19.2 | 10 730     | 4 002                | 37.3 | 773        | 3 199     | 367       | 298       | 65 057     | 209 815    | 5 HUN                |
| IRL   | 26 650              | 1 238                      | 4.6  | 27 768     | 7 449                | 26.8 | 2 793      | 25 624    | 688       | 8 406     | 291 340    | 16 408     | 339 IRL              |
| JPN   | 5 742               | 421                        | 7.3  | 969 799    | 253 096              | 26.1 | 232 248    | 45 871    | 482       | 8 801     | 25 299     | 6 098      | 1 JPN                |
| KOR   |                     |                            |      | 116 732    | 56 272               | 48.2 |            | 14 408    |           | 719       | 3 246      |            | 15 707 <b>KOR</b>    |
| LUX   | 5 692               | 1 134                      | 19.9 | 4 382      | 1 202                | 27.4 | 1 562      | 1 399     | 274       | 133       | 116 309    | 11 855     | 1 046 <b>LUX</b>     |
| MEX   | 1 214               | 262                        | 21.6 | 10 765     | 2 001                | 18.6 | 71 644     | 349 366   | 9 922     | 811       | 44 396     | 4 096      | 403 MEX              |
| NLD   | 280 007             | 163 658                    | 58.4 | 367 987    | 34 754               | 9.4  | 221 626    | 29 826    | 93 326    | 13 226    | 340 220    | 269 158    | 1 NLD                |
| NOR   | 31 278              | 5 665                      | 18.1 | 100 274    | 5 869                | 5.9  | 15 133     | 17 017    | 1 268     | 1 489     | 116 637    | 49 868     | 805 <b>NOR</b>       |
| NZL   | 39 351              | 273                        | 0.7  | 175 302    | 62 736               | 35.8 | 3 651      | 21 126    | 17 100    | 156 078   | 271 008    | 14 724     | 207 <b>NZL</b>       |
| POL   | 2 962               | 741                        | 25.0 | 9 479      | 667                  | 7.0  | 920        | 10 566    | 202       | 671       | 248 868    | 483 223    | 18 391 <b>POL</b>    |
| PRT   | 349 859             | 1 596                      | 0.5  | 16 859     | 2 397                | 14.2 | 74 949     | 14 627    | 914       | 1 256     | 159 008    | 34 000     | PRT                  |
| SVK   | 404                 | 50                         | 12.4 | 1 400      | 142                  | 10.1 | 154        | 945       | 77        | 64        | 99 931     | 16 097     | SVK                  |
| SWE   | 78 039              | 9 962                      | 12.8 | 244 246    | 12 106               | 5.0  | 59 965     | 17 627    | 2 840     | 3 376     | 456 262    | 215 241    | SWE                  |
| TUR   | 12 686              | 1 627                      | 12.8 | 83 657     | 1 802                | 2.2  | 1 010      | 15 006    | 216       | 3 265     | 447 739    | 695 795    |                      |
| USA   | 988 253             | 58 530                     | 5.9  | 8 402 240  |                      | 18.4 | 13 476 759 | 965 485   | 4 469 340 | 288 391   | 4 594 095  | 1 442 654  | 7 574 <b>USA</b>     |
| Total | 7 078 167           | 3 193 667                  | 45.1 | 16 828 839 | 3 139 219            | 18.7 | 15 633 942 | 2 413 463 | 5 283 645 | 1 177 196 | 20 351 626 | 12 065 948 | 1 794 230 Total      |

Note: Data for EU25 are limited to three countries (DEU, FRA and GBR) in statistics provided by Korea and to 16 countries (BEL, DNK, FIN, FRA, GRC, IRL, ITA, LUX, NLD, AUT, PRT, SWE, POL, ESP, HUN and GBR) in data provided by Germany.

Table A4. Stocks and percentages of persons by education level and place of birth in OECD countries (People 15+)

|     |                                     |      |  | ١                                  | Native-born |      |   |     |         |   |          |                        |      | Foreign Born |      |             |                                  |        |                 |     |
|-----|-------------------------------------|------|--|------------------------------------|-------------|------|---|-----|---------|---|----------|------------------------|------|--------------|------|-------------|----------------------------------|--------|-----------------|-----|
|     | Less than u<br>seconda<br>(ISCED 0/ | ary  | Upper secondar<br>post-secondar<br>tertiary (ISCEI | condary non- Tertiary of which PhD |             |      | Less than up secondary Unspecified (ISCED 0/1/2 |     | lary    | Upper secon<br>post-second<br>tertiary (ISC | ary non- | Tertiary<br>(ISCED 5/6 | i)   | of which P   |      | Unspecified | Unspecified<br>place of<br>birth |        |                 |     |
| AUS | 4282959                             | 45.8 | 1467214  | 15.7                               | 3610692     | 38.6 | 145112  | 1.6 | 890502  | 1310051                                     | 38.3     | 643732                 | 18.8 | 1465733      | 42.9 | 120729      | 3.5                              | 442044 | 743848 <b>A</b> | AUS |
| AUT | 1924574                             | 33.4 | 3203774  | 55.7                               | 626609      | 10.9 |   |     |         | 456032                                      | 49.4     | 362918                 | 39.3 | 104742       | 11.3 |             |                                  |        | 795 <b>A</b>    | AUT |
| BEL | 3209646                             | 46.8 | 2078319  | 30.3                               | 1570363     | 22.9 | 30180   | 0.4 | 613374  | 443045                                      | 54.2     | 197573                 | 24.2 | 176917       | 21.6 | 9099        | 1.1                              | 201779 | 513 <b>E</b>    | BEL |
| CAN | 5864360                             | 31.6 | 6847165  | 36.9                               | 5834055     | 31.5 | 59365   | 0.3 |         | 1612380                                     | 30.1     | 1709705                | 31.9 | 2033490      | 38.0 | 69300       | 1.3                              |        |                 | CAN |
| CHE | 1024780                             | 25.6 | 2252546  | 56.3                               | 723364      | 18.1 |   |     | 337712  | 485466                                      | 41.6     | 405183                 | 34.7 | 276791       | 23.7 |             |                                  | 286745 | 250763 <b>C</b> | CHE |
| CZE | 1809625                             | 22.8 | 5310328  | 67.0                               | 806551      | 10.2 | 29446   | 0.4 | 38276   | 164538                                      | 38.4     | 208718                 | 48.8 | 54766        | 12.8 | 3037        | 0.7                              | 4212   | 178184 <b>C</b> |     |
| DEU | 13011570                            | 23.7 | 31154820   | 56.8                               | 10675988    | 19.5 |   |     |         | 3870908                                     | 43.7     | 3612460                | 40.8 | 1372254      | 15.5 |             |                                  |        |                 | DEU |
| DNK | 1648305                             | 41.0 | 1613993  | 40.2                               | 753930      | 18.8 | 7895  | 0.2 |         | 155216                                      | 48.6     | 101842                 | 31.9 | 62243        | 19.5 | 637         | 0.2                              |        | 23089           | DNK |
| ESP | 19127995                            | 63.9 | 4993877  | 16.7                               | 5789438     | 19.4 | 153138  | 0.5 |         | 1029435                                     | 55.4     | 423225                 | 22.8 | 404387       | 21.8 | 18407       | 1.0                              |        |                 | ESP |
| FIN | 1662854                             | 40.3 | 1497548  | 36.3                               | 967291      | 23.4 | 22117   | 0.5 |         | 59374                                       | 52.7     | 31940                  | 28.4 | 21322        | 18.9 | 1097        | 1.0                              |        | 4453 <b>F</b>   | FIN |
| FRA | 19433046                            | 45.8 | 15874617   | 37.4                               | 7160516     | 16.9 |   |     |         | 3066864                                     | 54.8     | 1521910                | 27.2 | 1011424      | 18.1 |             |                                  |        |                 | FRA |
| GBR | 18424701                            | 51.2 | 10314951   | 28.7                               | 7232100     | 20.1 |   |     | 7209262 | 1602168                                     | 40.6     | 968116                 | 24.5 | 1374370      | 34.8 |             |                                  | 558667 |                 | GBR |
| GRC | 4498041                             | 54.4 | 2662076  | 32.2                               | 1112057     | 13.4 | 73774   | 0.9 |         | 448046                                      | 44.8     | 399653                 | 39.9 | 153083       | 15.3 | 9112        | 0.9                              |        | 242             | GRC |
| HUN | 3711782                             | 45.1 | 3636532  | 44.2                               | 879571      | 10.7 |   |     |         | 113250                                      | 41.1     | 107779                 | 39.1 | 54465        | 19.8 |             |                                  |        | ŀ               | HUN |
| IRL | 1228075                             | 47.8 | 758006   | 29.5                               | 584325      | 22.7 | 6739  | 0.3 | 131206  | 92939                                       | 29.6     | 92011                  | 29.3 | 128762       | 41.0 | 3655        | 1.2                              | 19292  |                 | IRL |
| KOR | 13132782                            | 36.1 | 13498737   | 37.2                               | 9703531     | 26.7 | 568042  | 1.6 | 11483   | 33433                                       | 23.8     | 61950                  | 44.0 | 45355        | 32.2 |             |                                  | 78     | ۲               | KOR |
| LUX | 55971                               | 28.7 | 114240   | 58.6                               | 24890       | 12.8 |   |     | 29853   | 40499                                       | 36.7     | 45807                  | 41.6 | 23916        | 21.7 |             |                                  | 19539  | 1627 L          | LUX |
| MEX | 44760651                            | 72.3 | 10380897   | 16.8                               | 6757285     | 10.9 | 373353  | 0.6 | 528077  | 86732                                       | 36.5     | 60946                  | 25.7 | 89689        | 37.8 | 14139       | 6.0                              | 4095   | 174266 N        | MEX |
| NLD | 4534737                             | 40.7 | 4426572  | 39.8                               | 2169015     | 19.5 |   |     |         | 629462                                      | 53.0     | 349889                 | 29.4 | 208863       | 17.6 |             |                                  |        | 148818 N        | NLD |
| NOR | 677175                              | 21.2 | 1776416  | 55.6                               | 739122      | 23.2 | 10074   | 0.3 | 210377  | 38466                                       | 18.3     | 106590                 | 50.6 | 65535        | 31.1 | 3049        | 1.4                              | 80830  | N               | NOR |
| NZL | 578331                              | 30.1 | 819588   | 42.7                               | 521349      | 27.2 |   |     | 226410  | 102603                                      | 18.7     | 276585                 | 50.4 | 170082       | 31.0 |             |                                  | 74688  | 119859 N        | NZL |
| POL | 9321483                             | 31.2 | 17427397   | 58.4                               | 3111488     | 10.4 | 101047  | 0.3 | 173876  | 348750                                      | 47.9     | 293537                 | 40.3 | 86385        | 11.9 | 6248        | 0.9                              | 9067   | 516445 <b>F</b> | POL |
| PRT | 6494230                             | 80.0 | 991642   | 12.2                               | 627711      | 7.7  | 10223   | 0.1 |         | 320778                                      | 54.7     | 151806                 | 25.9 | 113348       | 19.3 | 3039        | 0.5                              |        | F               | PRT |
| SVK | 1057596                             | 28.0 | 2342010  | 62.0                               | 378694      | 10.0 |   |     | 19483   | 32933                                       | 29.3     | 63013                  | 56.1 | 16424        | 14.6 |             |                                  | 805    | 405480          | SVK |
| SWE | 1375361                             | 25.0 | 2868919  | 52.2                               | 1252919     | 22.8 | 38438   | 0.7 | 32452   | 253195                                      | 29.6     | 395962                 | 46.2 | 207558       | 24.2 | 13107       | 1.5                              | 75394  | 359             | SWE |
| TUR | 36721637                            | 79.4 | 7030720  | 15.2                               | 2497755     | 5.4  |   |     |         | 479520                                      | 49.3     | 331728                 | 34.1 | 161557       | 16.6 | 10988       | 1.1                              |        |                 | TUR |
| USA | 41438103                            | 21.9 | 97004014   | 51.2                               | 50983357    | 26.9 | 1317999   | 0.7 |         | 12632924                                    | 39.8     | 10885700               | 34.3 | 8204473      | 25.9 | 443152      | 1.4                              |        | i               | USA |

Note: For Finland, "less than upper secondary" includes "unspecified" educational attainment.

Educational levels for the United Kingdom are for people aged 16-74; other age groups are coded "unspecified".

Sources: see Annex 1, Secretariat calculations.

Table A5. Stocks of persons originating in OECD countries and residing in another member country (Total population)

Country of residence AUS AUT CAN CHE CZE DEU DNK FIN FRA GBR GRC HUN AUS Origin country AUT BEL CAN CHE CZE DEU DNK **FSP** FIN FRA **GBR** GRC HUN IRL ISL ITA JPN KOR LUX MEX NLD NOR NZL POL PRT SVK **SWE** TUR USA **CSFR** OECD foreign-born 347422 4273566 Percentage of total foreign-born from 57.6 50.1 65.9 53.3 64.7 77.5 51.8 48.8 32.4 39.5 39.7 39.4 27.3 23.7 OECD countries

Table A5. Stocks of persons originating in OECD countries and residing in another member country (Total population) (cont.)

|                         |            | Country of | residence |        |        |        |        |        |        |        |        |        |        |          |          |
|-------------------------|------------|------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|----------|
|                         |            | JPN        | KOR       | LUX    | MEX    | NLD    | NOR    | NZL    | POL    | PRT    | SVK    | SWE    | TUR    | USA      | Total    |
| Origin                  | AUS        | 6148       | 719       | 96     | 281    | 9529   | 1101   | 56142  | 608    | 1192   | 52     | 2525   | 2938   | 75314    | 171760   |
| country                 | AUT        | 293        |           | 624    | 500    | 6746   | 1040   | 1200   | 4312   | 391    | 808    | 5967   | 14335  | 70560    | 284430   |
|                         | BEL        | 324        |           | 14770  | 735    | 46003  | 907    | 513    | 2797   | 2879   | 179    | 1356   | 8751   | 41705    | 243972   |
|                         | CAN        | 7067       | 2468      | 305    | 5768   | 8427   | 2290   | 7770   | 1555   | 7326   | 115    | 2471   | 1427   | 945060   | 157465   |
|                         | CHE        | 677        |           | 787    | 1478   | 5792   | 1507   | 2763   | 506    | 12897  | 51     | 2557   | 10369  | 49445    | 230347   |
|                         | CZE        | 113        |           | 253    | 225    | 121    | 567    | 663    | 6200   | 130    | 75585  | 522    | 1026   | 24865    | 114486   |
|                         | DEU        | 3407       | 920       | 12847  | 5595   | 123110 | 12880  | 8382   | 101633 | 24283  | 735    | 40217  | 273535 | 1241450  | 1481926  |
|                         | DNK        | 311        |           | 1522   | 245    | 3242   | 23326  | 1446   | 704    | 387    | 17     | 40921  | 3372   | 34064    | 85665    |
|                         | ESP        | 1183       |           | 2120   | 21114  | 18279  | 1782   | 339    | 1111   | 13966  | 30     | 5470   | 1209   | 114190   | 616294   |
|                         | FIN        | 512        |           | 701    | 126    | 2379   | 7027   | 372    | 192    | 312    | 11     | 189341 | 1672   | 22865    | 67634    |
|                         | FRA        | 3768       | 1142      | 18864  | 5751   | 19338  | 3069   | 2283   | 34647  | 95282  | 1393   | 6155   | 16048  | 204238   | 707152   |
|                         | GBR        | 10411      | 1184      | 3167   | 2688   | 45691  | 14332  | 218394 | 2630   | 10068  | 87     | 16428  | 18939  | 823279   | 2277021  |
|                         | GRC        | 165        |           | 865    | 298    | 7375   | 636    | 942    | 2793   | 125    | 26     | 10853  | 59217  | 178155   | 532190   |
|                         | HUN        | 266        |           | 293    | 239    | 5333   | 1507   | 987    | 1344   | 217    | 17293  | 13794  | 520    | 94095    | 196614   |
|                         | IRL        | 618        |           | 641    | 192    | 4425   | 499    | 6726   | 71     | 533    | 2      | 1349   | 538    | 164435   | 638368   |
|                         | ISL        | 31         |           | 309    | 16     | 385    | 3941   | 84     | 41     | 34     | 1      | 3811   | 43     | 9805     | 9691     |
|                         | ITA        | 1127       |           | 12254  | 3904   | 17207  | 1506   | 1440   | 4292   | 1958   | 117    | 6584   | 2843   | 536370   | 1919398  |
|                         | JPN        |            | 13398     | 289    | 2936   | 5879   | 932    | 8622   | 230    | 280    | 16     | 2502   | 2003   | 497945   | 121658   |
|                         | KOR        |            |           | 513    | 2100   | 5305   | 6347   | 17934  | 37     | 74     | 1      | 9574   | 513    | 156085   | 167996   |
|                         | LUX        | 8          |           |        | 15     | 827    | 93     | 30     | 125    | 3313   |        | 139    | 46     | 2690     | 30289    |
|                         | MEX        | 1222       |           | 61     |        | 1454   | 471    | 243    | 116    | 214    | 9      | 1328   | 154    | 9336530  | 83835    |
|                         | NLD        | 604        |           | 3284   | 773    |        | 4389   | 22239  | 964    | 3250   | 32     | 5150   | 21823  | 105920   | 494707   |
|                         | NOR        | 280        |           | 152    | 134    | 2499   |        | 465    | 315    | 283    | 9      | 45087  | 3554   | 36340    | 55877    |
|                         | NZL        | 2401       |           | 33     | 77     | 3582   | 345    |        | 50     | 48     | 3      | 763    | 290    | 26350    | 430523   |
|                         | POL        | 468        |           | 1006   | 971    | 17351  | 6702   | 1938   |        | 358    | 3473   | 41608  | 3415   | 477450   | 1723927  |
|                         | PRT        | 368        |           | 41690  | 288    | 10218  | 760    | 141    | 60     |        | 4      | 2533   | 225    | 212115   | 1063130  |
|                         | SVK        | 107        |           | 93     | 23     | 67     | 306    | 138    | 1514   | 30     |        | 374    | 315    | 15945    | 365816   |
|                         | SWE        | 798        |           | 984    | 425    | 3642   | 32939  | 960    | 703    | 741    | 23     |        | 5335   | 54435    | 134109   |
|                         | TUR        | 915        |           | 290    | 246    | 181865 | 8410   | 396    | 452    | 106    | 30     | 34083  |        | 90595    | 2257537  |
|                         | USA        | 38804      | 11940     | 1094   | 343597 | 21356  | 14725  | 13344  | 9010   | 7301   | 829    | 15143  | 13579  |          | 736527   |
|                         | CSFR       |            |           |        |        | 4984   | 317    |        |        |        |        | 7330   |        | 45245    | 62324    |
| OECD fore               |            | 82396      | 31771     | 119907 | 400740 | 582411 | 154653 | 376896 | 179012 | 187978 | 100931 | 515935 | 468034 | 15687540 | 17462668 |
| Percentage              | e of total |            |           |        |        |        |        |        |        |        |        |        |        |          |          |
| foreign-bor<br>OECD cou |            | 10.8       | 23.5      | 84.7   | 81.4   | 36.1   | 46.5   | 54.0   | 23.7   | 28.9   | 84.8   | 47.9   | 37.2   | 47.5     | 46.5     |

Note: CSFR stands for "Former Czechoslovakia not included elsewhere". Data for Korea are partial as several OECD countries do not systematically distinguish the Democratic Republic of Korea and the People's Republic of Korea (e.g. 529 408 people in Japan and 743 260 in the United States). Sources: see Annex 1, Secretariat calculations.

Table A6. Total number of highly skilled expatriates and percentage of highly skilled expatriates by country of birth

| Part   |                        | Total   | of which: |                    | Total   | of which: |              | Total  | of which: |                       | Total   | of which: |                      | Total   | of which: |
|--|------------------------|---------|-----------|--------------------|---------|-----------|--------------|--------|-----------|-----------------------|---------|-----------|----------------------|---------|-----------|
| Magnetistan   1921   2-2   2   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Albertin   Sport   Albert   Sport   Albertin   Sport   Albertin   Sport   Albertin   Sport   Albertin   Sport   Albertin   Sport   Albertin   Albertin   Sport   Albertin   Al   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Marcina   10107  |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| American Samos   10.9   10.0   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Angle   Angl   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Agolia 1967   200  |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Angusland Barbauda 2440 2460 2560 2560 2560 2560 2560 2560 2560 25   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Ariguia and Barbula 2440 76, 6 Casch Fequibilic 21679 246 reland 792816 235 Micaregua 2463 170 Micaregua 246 |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Agenina   26070   361   7600   | Aligulia               | 1077    | 30.9      | Cypius             | 13071   | 20.2      | iraq         | 294907 | 20.2      | New Zealand           | 410003  | 40.0      | Sudan                | 42000   | 40.5      |
| Agentina   Seption   Sep   | Antigua and Barbuda    | 24400   | 26.5      |                    | 215879  | 24.6      | Ireland      | 792316 | 23.5      | Nicaragua             | 224531  | 17.9      |                      | 186532  | 14.6      |
| Autharial  | Argentina              |         |           | Democratic Rep. of |         |           |              |        |           | -                     |         |           |                      | 23      |           |
| Masterial   Mast   | Armenia                |         |           | Congo              |         |           | Italy        |        |           |                       |         |           |                      |         |           |
| Martina  |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Aserbalian   Ase   | Australia              | 267314  | 43.6      | Djibouti           | 5359    | 9 29.7    | Japan        | 575992 | 48.9      |                       | 269     | 28.6      | Switzerland          | 262456  | 35.8      |
| Acrisajam 2026 4 12 Dominican Republic 6 91844 12.3 Kazakhstan 4326 28.4 Norway 120079 2c.1 China 431462 51.1 China 4314 |                        |         |           |                    |         |           | 1            |        |           |                       |         |           |                      |         |           |
| Cambalan   Camba   C   | Austria                | 366023  | 28.7      | Dominica           | 25738   | 3 21.7    | Jordan       | 62796  | 41.0      | Islands               | 3647    | 25.2      |                      | 126372  | 34.1      |
| Bahamas 3075 2 20 East Timor 8994 77.5 Korya 1974 57.5 Korya 1 |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Bahrains   744   406   Euclor   490267   544   490267   545   416   49   | Azerbaijan             | 29263   | 41.2      | Dominican Republic | 691884  | + 12.3    | nazaknstan   | 43226  | 28.4      |                       | 122079  | 32.1      | Cnina                | 431462  | 61.1      |
| Bahrsin   7424   | Dahamaa                | 00750   | 000       | Foot Times         | 000     |           | K            | 407445 | 07.4      |                       | 4.4700  | 40.0      | Talibiatan           | 0004    | 40.4      |
| Bangladesh   2767776   279   276787   27483   278      |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Barbados   88985   2.5   Esalvador   38951   7.8   Wavalt   3.7591   4.6   Palau   2.167   25.5   Togo   19024   9.8     |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Balgium  |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Pagiglium   12/1544   33.8   Prittine   35.127   24.0   Democratic Republic   26.4894   14.4   Pagua New Guinea   26.074   4.39   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   185.04   25.0   Trinidad and Tobago   27.0934   29.5   Paguay   27.0934   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   27.0934   29.5   Paguay   29.5   Paguay   29.5   Paguay   29.5   Paguay   29.5   Paguay   29.5   Paguay   29.5   Paguay   29.5   Paguay   29.5   Paguay   29.5   Paguay   29   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Belgium   Sa21544   Sa38   Effires   Si317   240   Democratic Republic   26486   14.4   Papual New Guines   2679   4.59   Tonigal and Tobago   26798   4.29   27.5   Estonia   13680   3.2   Estonia   13680   3.2   Estonia   13680   3.2   Estonia   13680   3.2   Estonia   13680   3.2   Estonia   13880   3.2   Estonia   | Beiarus                | 149935  | 25.0      | Equatorial Guinea  | 12148   | 22.7      |              | 4640   | 39.0      | Panama                | 140631  | 32.0      | Tokelau              | 1815    | 11.3      |
| Belize   43023   202   Estonia   35077   32.0   Latvia   54153   37.4   Paraguay   1894   25.0   Trinidad and Tobago   276934   29.5   Trinidad and Tobago   276934   29.5   Trinidad and Tobago   276934   29.5   Trinidad and Tobago   276934   29.5   Trinidad and Tobago   276934   29.5   Trinidad and Tobago   276934   27.5   Trinidad and Tobago   276934   29.5   Trinidad and Tobago   276934   27693   | Rolaium                | 221544  | 22.0      | Eritroa            | 25127   | 7 240     |              | 264964 | 111       | Panua New Guinea      | 26074   | 42.0      | Tongs                | 41116   | 11.2      |
| Benin   13669   43.8   Ethiopia   113838   37.2   Leanon   332270   5.9   Peru   361506   30.2   Tunisia   371274   17.7   17.   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Bernation   1972   348   Falk and Islands   1316   22.5   Lesotho   995   43.7   Philippines   1816418   48.1   Turkey   2195645   6.5   6.2   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Blutan   Roy   R   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Bulania   Roy   2.5.   Vigolavia   106488   1.9   Liberia   41756   32.0   Pictairia   1.76   3.0   Pictairia   1.76   Pict   | Berniuda               | 19372   | 34.0      |                    | 1310    | 5 22.5    | Lesotiio     | 990    | 45.7      | Fillippines           | 1010410 | 40.1      | Turkey               | 2193043 | 0.3       |
| Bolivia   Transport   Free     | Bhutan                 | 809     | 25.5      |                    | 1064580 | ) 11.9    | Liberia      | 41756  | 33.0      | Pitcairn              | 173     | 42.2      | Turkmenistan         | 3269    | 32.8      |
| Bosini-Herzegovina   Signate   Sig   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Bosin-Herzegovina   Sosat   Sosat   Finland   Cess   Former   Former   Former   Sosat   Cezehoslovakia   19984   298   Lithuania   132843   22.1   Puerto Rico   1312753   14.7   U.Rue   107000   14.0   U.Rue   107000   U.Rue   1070   | Bolivia                | 72400   | 30.4      | Fiii               | 119400  | 26.4      | Libva        | 27481  | 43.4      | Poland                | 1276482 | 25.7      |                      | 1429    | 18.2      |
| Format   F   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Brazil   Sa 187   Sa 187   Former USSR   222270   29.0   Luxembourg   27.164   26.2   Catar   3.384   4.3   Uganda   8.223   39.2   Sa 18.2   Sa   |                        |         |           | Former             |         |           |              |        |           | 3.1                   |         |           |                      |         |           |
| Former Yugoslavia  | Botswana               | 4298    | 37.4      | Czechoslovakia     | 109984  | 29.8      | Lithuania    | 132843 | 22.1      | Puerto Rico           | 1312753 | 14.7      | U. Rep. Of Tanzania  | 70006   | 41.0      |
| Territory   36   13.9   Chers   1.8   Macao, China   1881   36.0   Republic of Korea   312538   43.2   Ulkraine   753080   27.2   Territory   Territ   | Brazil                 | 351878  | 31.7      | Former USSR        | 2222270 | 29.0      | Luxembourg   | 27164  | 26.2      | Qatar                 | 3384    | 43.3      | Uganda               | 82232   | 39.2      |
| British Virgin Islands   252   32.9   Gabon   1013581   34.4   Macedonia   14.9014   11.8   Republic of Moldova   35.365   36.7   36.0   Macadonia   14.9014   11.8   Republic of Moldova   35.365   36.7   36.0   Macadonia   14.9014   11.8   Republic of Moldova   35.365   36.7   36.0   Macadonia   14.9014   11.8   Republic of Moldova   35.365   36.7   36.0   Madagascar   75.954   32.0   Madagascar   75.954   32.0   Madagascar   75.954   32.0   Malaysia   20.9910   56.8   Republic of Moldova   35.365   36.7   36.0   Malaysia   20.9910   56.8   Malaysia   20   | British Indian Ocean   |         |           | Former Yugoslavia  |         |           | _            |        |           |                       |         |           | 1                    |         |           |
| Bulgaria   9059   39.3   Gabon   10951   35.8   Madagascar   75954   32.0   Romania   613168   26.3   United Kingdom   3229676   39.2  | Territory              | 36      | 13.9      | (Others) 1         | 54776   | 3 11.8    | Macao, China | 18881  | 36.0      | Republic of Korea     | 312538  | 43.2      | Ukraine              | 753080  | 27.2      |
| Bulgaria   527819   14.5   Gambia   20923   16.9   Malawi   15024   35.2   Russia   580570   43.0   America   809540   48.2     Burkina Faso   6237   36.4   Georgia   83419   25.0   Malaysia   209910   50.8   Rwanda   14832   34.4   Uruguay   70933   29.9     Burundi   10095   36.6   Germany   2933767   29.5   Maldives   519   34.5   Saint Helena   2460   10.4   Uzbekistan   48770   25.0     Cambodia   238599   15.7   Ghana   150665   34.0   Malawi   4504   12.6   Saint Lucia   24722   20.3     Canada   1044978   40.0   Greece   735430   16.1   Marshall Islands   5446   10.7   Grenadines   34969   24.5     Cayman Islands   2389   19.5   Guam   57742   26.1   Mauritiania   14813   18.5     Central African   Republic   5836   42.1   Guinea   1649711   39.6   Guinea   1649711   39.6     Chile   200366   33.0   Guinea   1649711   39.6   Guinea   1649711   39.6     Colomoros   17723   10.7   Honduras   278593   10.5   Mozambique   8537   26.5   Stowak Republic   374570   13.8     Colomoros   17723   10.7   Honduras   278593   10.5   Mozambique   8537   26.5   Stowak Republic   374570   13.8     Cambodia   203366   42.1   Guinea   48972   26.1   Marshall Islands   5446   10.7   Grenadines   34969   24.5   Venezuela   200461   40.2     Capara   16.1   Marshall Islands   5446   10.7   Grenadines   34969   24.5   Venezuela   200461   40.2     Capara   16.1   Marshall Islands   5446   10.7   Grenadines   34969   24.5   Venezuela   200461   40.2     Capara   16.1   Marshall Islands   5446   10.7   Grenadines   34969   24.5   Venezuela   200461   40.2     Capara   16.1   Marshall Islands   5446   10.7   Grenadines   34969   24.5   Venezuela   200461   40.2     Capara   16.1   Marshall Islands   5446   10.7   Grenadines   34969   24.5   Venezuela   200461   40.2     Capara   16.1   Marshall Islands   5446   10.7   Grenadines   34969   24.5   Venezuela   200461   40.2     Capara   16.1   Marshall Islands   5446   10.7   Grenadines   34969   24.5   Venezuela   200461   40.2     Capara   16.1   Marshall Islands   5446   10.7   | British Virgin Islands | 2252    | 32.9      | France             | 1013581 | 34.4      | Macedonia    | 149014 | 11.8      | Republic of Moldova   | 35365   | 36.7      | United Arab Emirates | 14589   | 23.9      |
| Bulgaria   527819   14.5   Gambia   20923   16.9   Malawi   15024   35.2   Russia   580570   43.0   America   809540   48.2     Burkina Faso   6237   38.4   Georgia   38.419   25.0   Malaysia   209910   50.8   Rwanda   14832   34.4     Cambodia   238539   15.7   Gambodia   238539   15.7   George   7385430   16.1   Marshall Islands   5446   10.7   George   24.5   Gambodia   24.   | Brunei Darussalam      | 9059    | 39.3      | Gabon              | 10951   | 35.8      | Madagascar   | 75954  | 32.0      | Romania               | 613168  | 26.3      |                      | 3229676 | 39.2      |
| Burkina Faso   6,237   38.4   Georgia   83419   25.0   Burundi   10095   38.6   Germany   2933757   29.5   Maldives   519   34.5   Saint Helena   2406   10.4   Us virgin Island   48772   29.3   Maldives   519   34.5   Saint Helena   2472   20.3   Saint Lucia   Saint   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Burundi   10095   38.6   Germany   2933757   29.5   Cambodia   238539   15.7   Cameroon   57050   42.3   Cameroon   5705   | Bulgaria               | 527819  | 14.5      | Gambia             | 20923   | 3 16.9    | Malawi       | 15024  | 35.2      | Russia                | 580570  | 43.0      | America              | 809540  | 48.2      |
| Cambodia 238539 15.7 Ghana 150665 34.0 Mali 45034 12.6 Saint Kitts and Nevis 20078 26.6 Uzbekistan 34123 40.3 Saint Lucia 24722 20.3 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002 32.1 Vanuatu 2002  | Burkina Faso           |         |           | Georgia            |         |           |              | 209910 |           |                       |         |           |                      |         |           |
| Cameroon         57050         42.3 (biraltar         Gibraltar         11886         23.3 (biraltar)         Malta         96837 (biraltar)         19.5 (biraltar)         Saint Lucia (biraltar)         Saint Lucia (biraltar)         Saint Lucia (biraltar)         Saint Lucia (biraltar)         Saint Lucia (biraltar)         Saint Lucia (biraltar)         Saint Lucia (biraltar)         Saint Lucia (biraltar)         Saint Lucia (biraltar)         Saint Vincent and the (biraltar)         Saint Lucia (biraltar)         Saint Lucia (biraltar)         Saint Lucia (biraltar)         Saint Vincent and the (biraltar)   | Burundi                |         |           | Germany            |         |           |              |        |           |                       |         |           |                      |         |           |
| Canada   1044978   40.0   Greece   735430   16.1   Marshall Islands   5446   10.7   Cape Verde   83291   6.2   Grenada   46825   23.2   Mauritania   14813   18.5   Samoda   71801   10.3   Vietnam   1507164   23.6   Samoda   71801   10.3   Vietnam   1507164      | Cambodia               | 238539  | 15.7      | Ghana              | 150665  |           |              | 45034  | 12.6      | Saint Kitts and Nevis | 20078   | 26.6      |                      | 34123   | 40.3      |
| Canada   1044978   40.0   Capa   3291   6.2   Capa   3291   6.2   Capa   3291   6.2   Capa   3292   19.5   Capa   3292   19.5   Capa   3292   32.2   Mauritania   14813   18.5   Samoa   71801   10.3   Vietnam   1507164   23.6   Samoa   23.6   Samoa   71801   10.3   Vietnam   1507164   23.6   Samoa   71801   10.3   Vietnam   10.3   Vietnam   1507164   23.6   Samoa   71801   10.3   Vietnam   10.3   Vietnam   1507164   23.6   Samoa   71801   10.3   Vietnam   10.3   Vietnam   10.3   Vietnam   10.3   Vietnam   10.3   Vietnam   10.3   Vietnam   10.3   Vietnam   10.3   Vietnam   10.3   Vietnam   10.3   Vietnam   10.3   Vietnam   10.3   Vietnam    | Cameroon               | 57050   | 42.3      | Gibraltar          | 11886   | 23.3      | Malta        | 96837  | 19.5      |                       | 24722   | 20.3      | Vanuatu              | 2002    | 32.1      |
| Cape Verde   83291   6.2   Grenada   46825   23.2   Mauritania   14813   18.5   Samoa   71801   10.3   Vietnam   1507164   23.6   San Marino   775   17.9   Vietnam   1507164   23.6   San Ma   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Cayman Islands         2389         19.5         Guam         57742         26.1         Mauritius         86410         28.0         San Marino         775         17.9         Western Sahara         158         33.5           Central African         Republic         9855         32.7         Guatemala         489772         8.2         Mexico         8431381         5.6         Frincipe         11732         10.7         Yemen         32428         19.3           Chad         5836         42.1         Guinea         19684         24.5         States of)         6697         13.3         Saudi Arabia         34646         35.4         Zambia         34825         49.3           Chile         200366         33.0         Guinea-Bissau         2949         12.7         Monaco         11208         24.6         Senegal         104715         23.1         Zimbabwe         77345         43.3           Cocos (Keeling)         Islands         2         0.0         Haiti         466897         19.8         Montserrat         11397         16.7         Sierra Leone         40556         33.6           Comoros         17723         10.7         Honduras         27893         35.5         Mozambique  |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Central African   Republic   9855   32.7   Guatemala   489772   8.2   Mexico   8431381   5.6     |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Republic         9855         32.7         Guatemala         489772         8.2         Mexico         8431381         5.6         Principe         11732         10.7         Yemen         32428         19.3           Chad         5836         42.1         Guinea         19684         24.5         States of)         6697         13.3         Saudi Arabia         34646         35.4         Zambia         34825         49.3           Chile         200366         33.0         Guinea-Bissau         29449         12.7         Monaco         11208         24.6         Senegal         104715         23.1         Zimbabwe         77345         43.3           Cocos (Keeling)         Islands         2         0.0         Haiti         46897         19.8         Montserrat         11397         16.7         Sierra Leone         40556         33.6           Columbia         682156         25.1         Holduras         278593         10.5         Mocambique         85337         26.5         Slovak Republic         374570         13.8  |                        | 2389    | 19.5      | Guam               | 57742   | 2 26.1    | Mauritius    | 86410  | 28.0      |                       | 775     | 17.9      | Western Sahara       | 158     | 33.5      |
| Chad   5836   42.1   Guinea   19684   24.5   States of the process of the proce   |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Chad         5836         42.1 (Dille a 200366 a 3.0 (Dille a 2003666 a 3.0 (Dille a 200366 a 3.0 (Dille a 200366 a 3.0 (Dille a 200366 a 3.0 (Dille a 200366  | Republic               | 9855    | 32.7      | Guatemala          | 489772  | 2 8.2     |              |        | 5.6       | Principe              | 11732   | 10.7      | Yemen                | 32428   | 19.3      |
| Chile         200366         33.0 (Dina Bissau)         Guinea-Bissau (Dina Bissau)         29449         12.7 (Monaco')         Monaco'         11208 (Monaco')         24.6 (Monaco')         Senegal (Monaco')         104715 (Monaco')         23.1 (Monaco')         Zimbabwe         77345 (Monaco')         43.8 (Monaco')           Islands         2         0.0 (Monaco')         11208 (Monaco')         11208 (Monaco')         11208 (Monaco')         11208 (Monaco')         24.6 (Monaco')         Sepchelles         7602 (Monaco')         22.5 (Monaco')         22.5 (Monaco')         Nomaco')         11208 (Monaco')         11208 (Monaco')         11208 (Monaco')         11208 (Monaco')         1208 (Monaco')  | <b>.</b>               |         |           | L.                 |         |           |              |        |           |                       |         |           | L                    |         |           |
| China         1649711         39.6         Guyana         305544         24.9         Mongolia         4709         43.8         Seychelles         7602         22.5           Islands         2         0.0         Haiti         466897         19.8         Montserrat         11397         16.7         Sierra Leone         40556         33.6           Columbia         682156         25.1         Holy See         93         35.5         Morcocco         1364754         14.8         Singapore         105805         45.9           Comoros         17723         10.7         Honduras         278593         10.5         Mozambique         85337         26.5         Slovak Republic         374570         13.8  |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
| Cocos (Keeling)         Blands         2         0.0         Haiti         466897         19.8         Montserrat         11397         16.7         Sierra Leone         40556         33.6           Columbia         682156         25.1         Holy See         93         35.5         Morocco         1364754         14.8         Singapore         105805         45.9           Comoros         17723         10.7         Honduras         278593         10.5         Mozambique         85337         26.5         Slovak Republic         374570         13.8  |                        |         |           |                    |         |           |              |        |           |                       |         |           | ∠imbabwe             | 77345   | 43.3      |
| Islands         2         0.0         Haiti         466897         19.8         Montserrat         11397         16.7         Siera Leone         40556         33.6           Columbia         682156         25.1         Holy See         93         35.5         Morocco         1364754         14.8         Singapore         105805         45.9           Comoros         17723         10.7         Honduras         278593         10.5         Mozambique         85337         26.5         Slovak Republic         374570         13.8  |                        | 1649711 | 39.6      | Guyana             | 305544  | 24.9      | Mongolia     | 4709   | 43.8      | Seychelles            | 7602    | 22.5      |                      |         |           |
| Columbia         682156         25.1         Holy See         93         35.5         Morocco         1364754         14.8         Singapore         105805         45.9           Comoros         17723         10.7         Honduras         278593         10.5         Mozambique         85337         26.5         Slovak Republic         374570         13.8   |                        | _       |           |                    |         |           | L            |        |           | L                     |         |           |                      |         |           |
| Comoros         17723         10.7         Honduras         278593         10.5         Mozambique         85337         26.5         Slovak Republic         374570         13.8  |                        | _       |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
|  |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |
|  |                        |         |           |                    |         |           |              |        |           |                       |         |           |                      |         |           |

Note: KOR+PRK stands for the Democratic Republic of Korea and the People's Republic of Korea. OECD countries are identified with shaded areas. Percentages take into account data with unspecified country of birth.

Sources: See Annex 1, Secretariat calculations (not including Japan and Italy as receiving countries).

<sup>1.</sup> Some host countries are not able to provide with figures for each Republics of Former Yugoslavia. In that case, data are specified in this category.

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