



# EDUCATION AT A GLANCE 2020

Education at a Glance: OECD Indicators is the authoritative source for information on the state of education around the world. It provides data on the structure, finances and performance of education systems in OECD and partner countries.

# **Poland**

# Participation and outcomes of vocational education and training

- Vocational education and training (VET) programmes attract a diverse range of students, including
  those seeking qualifications and technical skills to enter the labour market, adults wishing to
  increase their employability by developing their skills further, and students who may seek entry into
  higher education later on.
- About one in three students from lower secondary to short-cycle tertiary level are enrolled in a VET programme on average across OECD countries. However, there are wide variations across countries, ranging from less than 20% of students enrolled in vocational education to more than 45% in a few countries. In Poland, 35% of students are enrolled in vocational programmes, higher than the OECD average (32%), with the majority of lower secondary to short-cycle tertiary VET students (74%) found in upper secondary education (Figure 1).

Poland OECD average Other country/economy % 0 100 0 90 82 80 0 70 60 50 0 40 34 30 0 20 10 0 Share of lower Share of upper Share of upper Share of women Share of upper Employment rate secondary to secondary secondary VET among upper secondary VET of 25-34 yearsecondary VET students enrolled olds with upper short-cycle students enrolled students enrolled tertiary students in VET programmes in combined students (2018) in programmes secondary or postenrolled in VET (2018)school- and workproviding direct secondary nonbased programmes programmes (2018) access to tertiary (2018)tertiary vocational education (2018) education (2019)

Figure 1. Snapshot of vocational education

**Note**: Only countries and economies with available data are shown. The years shown in parentheses is the most common year of reference for OECD and partner countries. Refer to the source table for more details.

Source: OECD (2020), indicator A3 and B7. See Education at a Glance Database. <a href="http://stats.oecd.org/">http://stats.oecd.org/</a> for more information and Annex 3 for notes (<a href="https://doi.org/10.1787/69096873-en">https://doi.org/10.1787/69096873-en</a>).

- VET is an important part of upper secondary education in most OECD countries. On average, 52% of all upper secondary students opt for VET programmes in Poland, a higher proportion than the OECD average of 42% (Figure 1). Certain fields of study are more common than others at this level. In Poland, the most common broad field is engineering, manufacturing and construction with 39% of upper secondary vocational graduates earning a qualification in this field, compared to 33% on average across OECD countries.
- The organisation and delivery of upper secondary VET programmes varies considerably from country to country. In combined school- and work-based programmes, between 25% and 90% of the curriculum is taught as work-based learning, while the remainder is organised within the school environment. In Poland, 14% of upper secondary vocational students are enrolled in combined school- and work-based programmes, which is lower than the OECD average of 34% (Figure 1).
- The average age of enrolment in upper secondary vocational programmes across OECD countries (21 years) tends to be higher than for general programmes (17 years), a pattern not found in Poland. The average age of enrolment in upper secondary education is lower for students in vocational programmes (17 years) than for students in general programmes (19 years). The share of upper secondary vocational students tends to increase with age. This is not the case in Poland, where the share of upper secondary students enrolled in VET is 56% among 15-19 year-olds (OECD average: 37%), and 19% among 20-24 year-olds (OECD average: 62%).
- To support upper secondary vocational students' transition to post-secondary education and improve their career prospects, many countries have created direct pathways from vocational programmes to higher levels of education. In Poland, 77% of upper secondary vocational students are enrolled in programmes that offer the chance of direct access to tertiary education, slightly higher than the OECD average of 70% (Figure 1).
- In 2019, 37% of 25-34 year-olds in Poland held an upper secondary or post-secondary non-tertiary vocational qualification as their highest educational level while 14% held a general one. The employment rate of younger adults with a vocational upper secondary or post-secondary non-tertiary education tend to be higher than the employment rate of those with general qualifications at this level (by 9 percentage points on average across OECD countries). Poland follows this pattern, as 80% of 25-34 year-olds with an upper secondary or post-secondary non-tertiary vocational qualification are employed compared with 76% of those with a general qualification (Figure 1).
- Poorer labour-market prospects of VET qualifications combined with higher tertiary attainment may
  have contributed to the decline in the share of adults with an upper secondary vocational
  qualification across generations in many countries. In Poland, among those with upper secondary
  or post-secondary non-tertiary education as their highest attainment, 91% of 55-64 year-olds (older
  adults), compared with 73% of 25-34 year-olds (younger adults) held a vocational qualification. In
  comparison, the equivalent OECD averages are 72% for older adults and 59% for younger adults.
- On average across OECD countries, the ratio of students to teaching staff is similar in both upper secondary vocational and general programmes. In Poland, there are 11 students for every teaching staff member in general programmes and 9 in vocational ones.

# The rising demand for tertiary education

• The expansion of tertiary education is a worldwide trend. Between 2009 and 2019, the share of 25-34 year-olds with a tertiary degree increased in all OECD and partner countries. In Poland, the share increased by 8 percentage points during this period, lower than the average increase across OECD countries (9 percentage points). In 2019, 43% of 25-34 year-olds had a tertiary degree in Poland compared to 45% on average across OECD countries (Figure 2).

- From the gender perspective, younger women are more likely than younger men to achieve tertiary
  education in all OECD countries. In Poland, 54% of 25-34 year-old women had a tertiary
  qualification compared to 34% of their male peers, while on average across OECD countries the
  shares are 51% of younger women and 39% of younger men.
- In Poland, the average age of first-time entrants to tertiary education in 2018 was 22 years, the same as the OECD average. Structural factors, such as admission procedures, the typical age at which students graduate from upper secondary education, or cultural perceptions of the value of professional or personal experiences outside of education may explain the differences in the average age of entry to tertiary education across countries.
- If current entry patterns continue, it is estimated that 49% of young adults will enter tertiary education for the first time in their life before the age of 25 on average across OECD countries (excluding international students). In Poland, 67% of young adults will enter tertiary education by that age.
- Short-cycle tertiary programmes are generally designed to be vocationally oriented and represent
  the second most common route of entry into tertiary education on average across OECD countries,
  after bachelor's programmes. If current entry patterns continue, a negligible share of adults are
  expected to enter short-cycle tertiary education before the age of 25 in Poland, compared to 10%
  on average across OECD countries. In Poland, women make up 84% of students in such
  programmes, compared to 52% on average across OECD countries.
- Young people can face barriers to labour market entry as they transition from school to work, but higher educational attainment increases their likelihood of being employed and is associated with higher incomes. On average across OECD countries, the employment rate in 2019 was 61% for 25-34 year-olds without upper secondary education, 78% for those with upper secondary or post-secondary non-tertiary education as their highest attainment and 85% for those with tertiary education. In Poland, the shares are 47% for below upper secondary, 79% for upper secondary or post-secondary non-tertiary and 89% for tertiary attainment. Having a tertiary degree also carries a considerable earnings advantage in most OECD and partner countries. In Poland, in 2018, 25-64 year-olds with a tertiary degree with income from full-time, full-year employment earned 55% more than full-time, full-year workers with upper secondary education compared to 54% on average across OECD countries (Figure 2).
- International student mobility has been expanding quite consistently in the past twenty years. In 2018, 5.6 million tertiary students worldwide had crossed a border to study, more than twice the number in 2005. In Poland, the share of foreign or international students increased from 2% in 2014 to 4% in 2018. Meanwhile 2% of Polish tertiary students are enrolled abroad (Figure 2). English-speaking countries are the most attractive student destinations overall in the OECD area, with Australia, Canada, the United Kingdom and the United States receiving more than 40% of all internationally mobile students in OECD and partner countries. Among students leaving Poland to study, the most popular destination country is the United Kingdom.

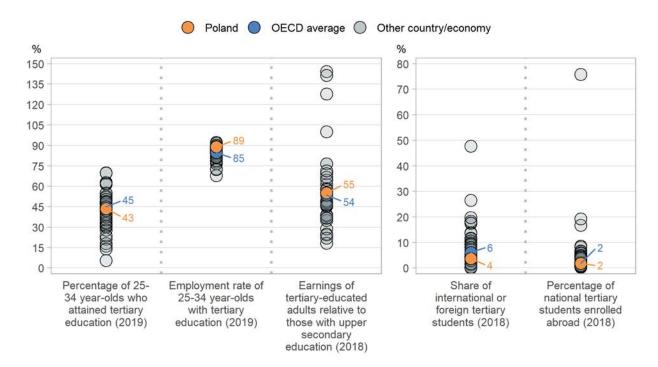


Figure 2. Snapshot of tertiary education

**Note:** Only countries and economies with available data are shown. The years shown in parentheses is the most common year of reference for OECD and partner countries. Refer to the source table for more details.

**Source:** OECD (2020), indicator A1, A3, A4 and B6. See Education at a Glance Database http://stats.oecd.org/for more information and Annex 3 for notes (https://doi.org/10.1787/69096873-en).

### Starting strong

- Early childhood education and care (ECEC) has experienced a surge of policy attention in OECD countries in recent decades, with a focus on children under the age of 3 in many countries.
   Among 2 year-olds, the enrolment rate at ISCED 0 is 7% in Poland, 39 percentage points below the OECD average of 46% (Figure 3).
- In many OECD countries, ECEC begins for most children long before they turn 5 and there are
  universal legal entitlements to a place in ECEC services for at least one or two years before the
  start of compulsory schooling. While compulsory education begins at age 6 in Poland, 85% of 3-5
  year-olds in 2018 are enrolled in ECEC programmes and primary education in Poland, compared
  to 88% on average across OECD countries (Figure 3).
- Public provision of early childhood education and care is an important factor in ensuring broad
  access to affordable ECEC. On average across OECD countries, more than one in two of the
  children in early childhood educational development services (ISCED 01) are enrolled in private
  institutions. Enrolment in private institutions is usually less common for 3-5 year-olds, who are
  usually enrolled in pre-primary education (ISCED 02), than for younger children. In Poland, 25% of
  children attending pre-primary education are enrolled in private institutions, compared to one in
  three children on average across OECD countries.
- The workforce is at the heart of high-quality early-childhood education and care: stimulating
  environments and high-quality pedagogy are fostered by better-qualified practitioners and highquality interactions between children and staff facilitate better learning outcomes. In that context,
  lower child-staff ratios are found to be consistently supportive of staff-child relationships across

 Sustained public financial support is critical for the growth and quality of ECEC programmes. In 2017, annual total expenditure in pre-primary settings (ISCED 02) averaged USD 7 164 per child in Poland, lower than the average across OECD countries (USD 9 079) (Figure 3).

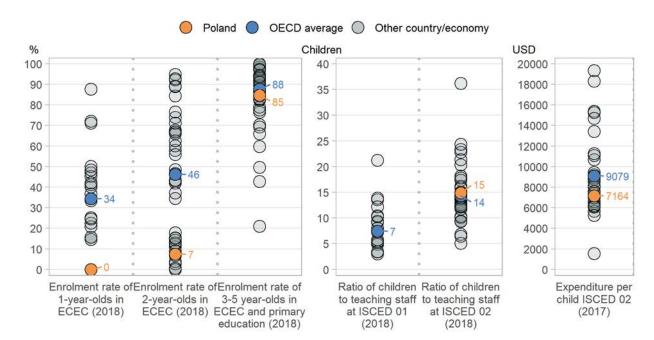


Figure 3. Snapshot of early childhood education and care

**Note:** Only countries and economies with available data are shown. Annual expenditure per child is shown in equivalent USD converted using PPPs. The years shown in parentheses is the most common year of reference for OECD and partner countries. Refer to the source table for more details.

**Source:** OECD (2020), indicator B2. See Education at a Glance Database <a href="http://stats.oecd.org/">http://stats.oecd.org/</a> for more information and Annex 3 for notes (https://doi.org/10.1787/69096873-en).

# Investing in education

- Annual expenditure per student on educational institutions from primary to tertiary level provides an indication of the investment countries make in each student. In 2017, Poland spent less on primary to tertiary educational institutions per full-time student than the OECD average, investing a total of USD 8 144 per student compared to USD 11 231 on average across OECD countries (Figure 4).
- The way education is provided influences how resources are allocated between levels of education and between public and private institutions. In 2017, Poland spent USD 7 597 per student at non-tertiary level (primary, secondary and post-secondary non-tertiary education), USD 2 402 lower than the OECD average of USD 9 999. At tertiary level, Poland invested USD 10 044 per student, USD 6 283 less than the OECD average (Figure 4). Expenditure per student on private educational institutions is higher than on public institutions on average across OECD countries. However, this is not the case in Poland, where total expenditure on public institutions from primary to tertiary level amounts to USD 8 340 per student, compared to USD 6 687 on private ones.

- In most OECD countries, expenditure per upper secondary student varies according to programme orientation. Spending per student on upper secondary vocational programmes tends to be higher than for upper secondary general ones due to the higher cost of equipment, lower student-toteacher ratios, and work-based requirements of such programmes. On average across OECD countries, expenditure per student in upper secondary vocational programmes was USD 1 470 higher than in general programmes in 2017. Poland follows the same pattern: spending per student amounted to USD 8 639 in upper secondary vocational programmes, USD 1 841 higher than spending per student on general ones at the same level.
- The share of national wealth devoted to educational institutions is lower in Poland than on average among OECD countries. In 2017, Poland spent 4.3% of gross domestic product (GDP) on primary to tertiary educational institutions, which is 0.6 percentage points lower than the OECD average. Across levels of education, Poland devoted a below average share of GDP than the OECD average at all levels of education (Figure 4).
- Between 2012 and 2017, expenditure per student from primary to tertiary education increased by an average annual growth rate of 1.3% across OECD countries. In Poland, expenditure on educational institutions grew at an average rate of 1.2% a year, while the number of students fell on average by 1.3% per year. This resulted in an average annual growth rate of 2.6% in expenditure per student over this period.
- Capital costs represent an average share of expenditure on primary to tertiary institutions in Poland. At primary, secondary and post-secondary non-tertiary level, capital costs account for 7% of total spending on educational institutions, similar to the OECD average. At the tertiary level, capital costs represent 9%, slightly lower than the average across OECD countries of 10%.
- Compensation of teachers and other staff employed in educational institutions represents the largest share of current expenditure from primary to tertiary education. In 2017, Poland allocated 75% of its current expenditure to staff compensation, compared to 74% on average across OECD countries. Staff compensation tends to make up a smaller share of current expenditure on tertiary institutions due to the higher costs of facilities and equipment at this level. In Poland, staff compensation represents 75% of current expenditure on tertiary institutions compared to 74% at non-tertiary levels. On average across OECD countries, the share is 67% at tertiary level and 77% at non-tertiary level.

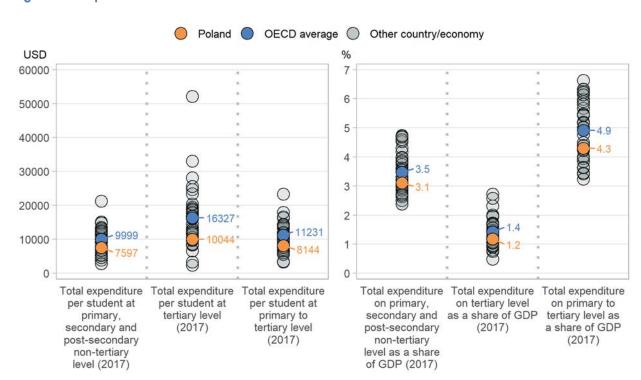


Figure 4. Snapshot of the financial resources invested in educational institutions

**Note:** Only countries and economies with available data are shown. Expenditure in national currencies is converted into equivalent USD by dividing the national currency figure by the purchasing power parity (PPP) index for GDP. The years shown in parentheses is the most common year of reference for OECD and partner countries. Refer to the source table for more details.

**Source:** OECD (2020), indicator C1 and C2. See Education at a Glance Database <a href="http://stats.oecd.org/">http://stats.oecd.org/</a> for more information and Annex 3 for notes (<a href="https://doi.org/10.1787/69096873-en">https://doi.org/10.1787/69096873-en</a>).

# Working conditions of school teachers

- Between 2005 and 2019, the statutory salaries of teachers with 15 years of experience and the
  most prevalent qualifications increased between 5-7% at primary and general lower and upper
  secondary levels, on average across OECD countries, despite a decrease of salaries following the
  2008 financial crisis. In Poland, teachers' salaries at these levels increased by 30%.
- Teachers' actual salaries reflect their statutory salaries and additional work-related payments. Average actual salaries depend also on the characteristics of the teaching population such as their age, level of experience and qualification level. In Poland, teachers' average actual salaries amount to USD 27 329 at the pre-primary level (ISCED 02) (lower than the OECD average of USD 38 677), USD 32 678 at the primary level (lower than the OECD average of USD 43 942), USD 33 211 at the general lower secondary level (lower than the OECD average of USD 46 225) and USD 32 435 at the general upper secondary level (lower than the OECD average of USD 49 778) (Figure 5).
- Teachers' average actual salaries remain lower than those of tertiary-educated workers in almost all countries, and at almost all levels of education. Teachers' average actual salaries at pre-primary (ISCED 02), primary and general secondary levels of education are 80-94% of the earnings of tertiary-educated workers on average across OECD countries and economies. In Poland, the proportion ranges from 63% at pre-primary level (ISCED 02) 75% at primary level to 76% at lower secondary level and 75% at the upper secondary level (Figure 5).
- The average number of teaching hours per year required of a typical teacher in public educational institutions in OECD countries tends to decrease as the level of education increases, from

 During their working time, teachers also perform various non-teaching tasks such as lesson planning and preparation, marking students' work and communicating or co-operating with parents or guardians. At the lower secondary level, teachers in Poland spend 34% of their statutory working time on teaching, compared to 44% on average among OECD countries (Figure 5).

470 hours at upper secondary level (general programmes).

• Large proportions of teachers in many OECD countries will reach retirement age in the next decade, while the size of the school-age population is projected to increase in some countries, putting many governments under pressure to recruit and train new teachers. In Poland, 7% of primary teachers are considered young teachers (under the age of 30), which is lower than the OECD average of 12%. On average across OECD countries, the proportion of young teachers decreases at other levels of education, to 10% in lower secondary education and 8% in upper secondary education. In Poland, the proportion of young teachers decreases to 6% at lower secondary level and to 4% at upper secondary level (Figure 5). Between 2005 and 2018, the proportion of young teachers at upper secondary level decreased by 10 percentage points in Poland, whereas it fell by 4 percentage points on average across OECD countries during this period.

Poland OECD average Other country/economy USD % 120000 150 0 135 105000 120 90000 105 75000 90 89 75 60000 48562 60 46225 45000 45 30000 27879 30 15000 15 Actual salaries of Statutory salaries Actual salaries of Share of lower Share of lower lower secondary of lower secondary lower secondary secondary teachers secondary teachers teachers (2019) teachers (15 years teachers relative working time that below the age of to earnings of of experience is spent teaching 30 (2018) most prevalent tertiary-educated (2019)qualification) adults (2019) (2019)

Figure 5. Snapshot of teachers' working conditions

**Note:** Only countries and economies with available data are shown. Teachers' salaries are shown in equivalent USD converted using PPPs. The years shown in parentheses is the most common year of reference for OECD and partner countries. Refer to the source table for more details.

**Source:** OECD (2020), indicator D3, D4 and D5. See Education at a Glance Database <a href="http://stats.oecd.org/">http://stats.oecd.org/</a> for more information and Annex 3 for notes (https://doi.org/10.1787/69096873-en).

# The impact of COVID-19 on education

- The global 2020 COVID-19 pandemic has sent shockwaves around the world. In a first effort to contain the virus, many countries have imposed a lockdown and schools and/or universities have closed for several months across all OECD and partner countries. In Poland, the closures were nationwide from 16 March 2020 and schools started progressively reopening on 25 May 2020. By the end of June, Poland had experienced 15 weeks of effective school closures in some form, compared to 14 weeks on average across OECD countries (UNESCO, 2020). However, the actual impact in some countries may have been less severe as some of these periods included scheduled school breaks.
- Excluding the non-compulsory part of the curriculum, students in public institutions in Poland attended classes for 603 hours per year on average at primary level and 829 hours at lower secondary level in 2019. Each week of school closure therefore represents about 17 hours of compulsory instruction time at the primary level and 24 hours of compulsory instruction time at lower secondary level during which students have physically not attended school (Figure 6). During this time, many OECD and partner countries have turned to distance learning to ensure the continuity of education.
- School reopening in the context of the pandemic is contingent on the capacity to maintain a safe distance of 1-2 metres between pupils and staff. Countries with smaller class sizes may find it easier to comply with new restrictions on social distancing. In Poland, the average class size at primary level is 18 students in public institutions, which is smaller than the OECD average of 21. In public lower secondary institutions, there are 21 students per class in Poland, compared to 23 students per class on average across OECD countries. However, the need to reduce class size may depend on other factors such as physical space, the availability of rooms and staff, and personal decisions by students and staff on whether to return to school (Figure 6).
- While there is uncertainty about the likely overall impact of the COVID-19 pandemic on education expenditure, governments will face difficult decisions on the allocation of resources, as government funds are injected into the economy and the health sector. In 2017, public spending on primary to tertiary education as a share of government expenditure in Poland was 9%, lower than the OECD average of 11% (Figure 6).
- As unemployment rises, private funding of education may also be at risk. The impact may be most severe in those countries and levels of education that rely most heavily on household expenditure, in particular early childhood education and care and tertiary education. In pre-primary education (ISCED 02), private sources accounted for 18% of total expenditure in Poland in 2017, slightly higher than the OECD average of 17%. At tertiary level, 19% of total expenditure comes from private sources, compared to 29% on average across OECD countries.
- The crisis may have a severe impact on the internationalisation of higher education as the delivery
  of online course material and travel restrictions may raise questions among international students'
  perception on the value of obtaining their degree from an institution abroad. Poland, with a lower
  share of international students than in total across the OECD, may be less strongly affected than
  other countries.
- Unemployment may increase, as the economy struggles to cope with the reduced activity that resulted from the lockdown. Those with lower educational attainment are the most vulnerable, as they are the most unlikely to benefit from remote working. In 2019, before the pandemic hit, 12% of young adults with below upper secondary education in Poland were unemployed compared to 3% of tertiary-educated 25-34 year-olds (Figure 6). In the aftermath of the 2008 financial crisis, the unemployment of young adults without an upper secondary education increased by 3.1 percentage points between 2008 and 2009 in Poland compared to 0.3 percentage points among those with tertiary education.

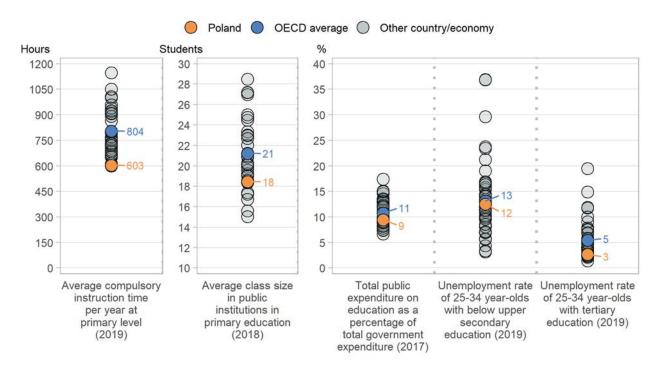


Figure 6. Snapshot of indicators relevant to the impact of COVID-19 on education

**Note:** Only countries and economies with available data are shown. The years shown in parentheses is the most common year of reference for OECD and partner countries. Refer to the source table for more details.

**Source:** OECD (2020), indicator A3, D1, D2, and C4. See Education at a Glance Database <a href="http://stats.oecd.org/">http://stats.oecd.org/</a> for more information and Annex 3 for notes (<a href="https://doi.org/10.1787/69096873-en">https://doi.org/10.1787/69096873-en</a>).

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#### More information

For more information on Education at a Glance 2020 and to access the full set of Indicators, visit www.oecd.org/education/education-at-a-glance-19991487.htm

For more information on to the methodology used during the data collection for each indicator, the references to the sources and the specific notes for each country, visit Annex 3 of the publication (https://doi.org/10.1787/69096873-en).

For general information on methodology, please refer to the OECD Handbook for Internationally Classifications Comparative Education Statistics: Concepts, Standards, Definitions and (https://doi.org/10.1787/9789264304444-en).

Updated data can be found on line at http://dx.doi.org/10.1787/eag-data-en and by following the StatLinks and charts in the publication.

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The calculation on the number of weeks of school closures due to the COVID-19 pandemic is based on data from UNESCO (UNESCO, 2020). For general information on the methodology considered for the data, please refer to the methodological note.

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On 15 May 2020, the OECD Council invited Costa Rica to become a Member. While Costa Rica is included in the OECD averages reported in this note, at the time of its preparation, Costa Rica was in the process of completing its domestic procedures for ratification and the deposit of the instrument of accession to the OECD Convention was pending.

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