An Phríomh-Oifig Staidrimh
Central Statistics Office

Teachers' Guide to the CSO 2021/2022

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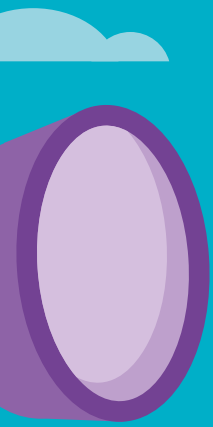

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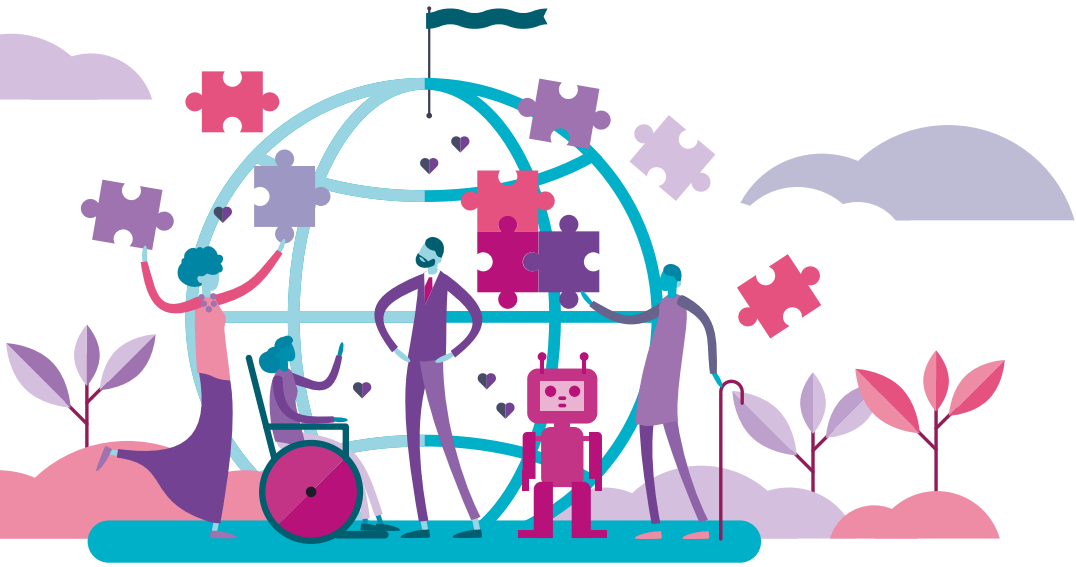
CSO Overview

The Central Statistics Office (CSO) provides Government with quality statistical information, which is vital for the formation, implementation and monitoring of policy and programmes at national, regional and local levels in a rapidly changing economic and social environment. The Office also serves the needs of the wider national and international community for impartial and relevant information on social and economic conditions. The diverse statistics recorded and analysed by the CSO can be classified under five general headings: People and Society, Labour Market and Earnings, Business Sectors, Economy and Environment & Climate, which are expanded upon in the following sections.



People and Society

Census: The census takes place every 5 years and gives an insight into topics such as the historical evolution of the population, the factors affecting population change, the distribution of the population by geographic area and by the main demographic characteristics, i.e. age, sex and marital status and many others.

Education: This data includes details of participation in and expenditure on primary, secondary and third level education, the level of education attained and the link between education and economic status.

Vital Statistics: This is where you can find statistics on births, deaths, marriages, civil partnerships and babies' names which are compiled by the Central Statistics Office on behalf of the Minister for Employment Affairs and Social Protection.

Crime: A number of aspects of justice and defence are examined here, examples being the number of offences recorded by the Garda Síochána and the re-offending rates of those placed on Probation Orders, Community Service Orders and those released from the custody of the Irish Prison Service.

Social conditions: This section covers a broad range of issues in relation to income and living conditions. It is the official source of data on household and individual income and also provides a number of key national poverty indicators, such as the risk of poverty rate and the consistent poverty rate.

Health: Areas covered include Irish health care expenditure and the measurement of the health status of the population in general. Different aspects and dimensions of health are looked at: physical and mental health, chronic and temporary problems and specific conditions.

Information Society: The Information and Communication Technology (ICT) household survey examines the use of ICT by households and individuals. It provides estimates on a range of activities such as personal internet use, online purchasing and household computer access.

Labour Market and Earnings

Labour Market statistics show developments in the Irish labour market, the trends in the **Live Register,** as well as details of **industrial disputes.**

Information is supplied on the average weekly, hourly and annual **earnings of employees,** as well as average and annual total **labour costs** per economic sector.

Business Sectors

Several business sectors are covered, including:

Agriculture: Information on the number of agricultural holdings in each province in Ireland from 1855 to 2010; data on crops and livestock; agricultural accounts and agricultural prices.

Construction: Factors studied include planning permissions, value and volume indices of production in construction, new orders in the sector and output in construction are also measured.

Industry: A detailed examination of factors influencing industrial manufacturing such indices of production, census of industrial production and gross output.

Science and Technology: Data are provided for areas such as Business Expenditure on Research and Development, Information Society statistics and technological innovation.

Services: These statistics provide information on the structure of the services sectors and an indication of changes in the value and volume/quantity of retail sales.

Tourism and Travel: Statistics such as number of overseas trips to Ireland and Irish trips abroad and Overseas Tourism & Travel Expenditure.

Transport: Areas covered include data on vehicle licensing, aviation and port traffic and road freight.

Economy

International Accounts: These statistics present information on Ireland's global transactions and positions, end of year levels of financial assets and liabilities, and shows the trend in saving and investment for households.

Prices: Results are shown for the principal price indices for the non-agricultural sectors and the residential property sector, such as consumer goods, industrial products and building materials.

National Accounts: This division provides data on the overall economy, with a summary of the revenue and expenditure of the Government sector, the General Government Balance and General Government Gross Debt.

Trade: Ireland's Goods Exports and Imports statistics provide data on the movement of goods between countries with classification by commodity and country.

Environment and Climate

Data is provided on such subjects as **BER ratings, environmental taxes, water consumption** and **air emissions.**

The CSO also produces general statistical publications which provide a broad overview of Irish Society, such as:

- The Statistical Yearbook of Ireland;
- Measuring Ireland's Progress;
- Women and Men in Ireland;
- Brexit – Ireland and the UK in Numbers; and
- Life in 1916 Ireland: Stories from Statistics.

Interactive Tools

Small Area Population Statistics (SAPS) are Census statistics produced for a range of geographical levels from state to small areas. The mapping tool facilitates access to SAPS through an interactive map search called **SAPMAP.**

SAPMap (Small Area Population Statistics Map)

This mapping application has been developed by the CSO using ArcGIS Viewer for Flex. It allows users to navigate to their location of interest by using the address search facility or by pinpointing a location on the map. There are 45 Small Area Population Statistics (SAPS) tables organised into 15 themes such as marital status, occupation, housing and education. Users can select their chosen geographic boundary and access all of the 2016 census tables that have been produced for that area. There are options to download the tables in pdf or excel format also.

1. Small Areas (1:250,000)
2. Electoral Divisions (1:600,000)
3. Counties
4. Dáil Constituencies
5. Gaeltacht Areas
6. Former Legal Towns and Cities
7. Settlements
8. Local Electoral Areas
9. Regional Authorities
10. Provinces

SAPMap can be found at
http://census.cso.ie/sapmap/

PxStat

PxStat is the CSO's new Open Data Portal, hosting statistics from both the CSO and a number of other public bodies. With this tool, users can explore a database going back to 1841 across a wide range of topics, filter tables to suit their needs, represent data on a map, share direct links to tables, export in a number of formats for later use, or even use an external API to remotely access datasets.

PxStat can be accessed at https://www.cso.ie/en/databases/ Here, you will also find YouTube clips on how to browse tables and create graphs.

Interactive Zone

The CSO home page has an "Interactive Zone" which links to many useful tools. It contains You Tube videos, visualization tools and other learning resources, along with details of statistical competitions.

Within the interactive zone you will find:

- CSO visualization tools with links to infographics and tools;
- A link to the CensusAtSchool website and associated press releases;
- A link to area profiles for counties, Dáil constituencies and towns;
- A learning resources area where statistics produced by the CSO are explained, resources for Census in Schools and a link to the Institute of Public Administration website;
- Information on CSO competitions, including John Hooper Medal for Statistics, and CSO awards, such as the Award for Best Use of CSO Open Data at BT Young Scientist Exhibition.

There is also access to some very interesting interactive Eurostat infographics:

- Compare yourself to other young Europeans;
- You and the EU - Compare your way of living;
- EU Quality of life - Compare your country to the rest of the EU;
- My Country in a Bubble - Compare EU member states.

History of the UK-based International CensusAtSchool Project

The Royal Statistical Society Centre for Statistical Education (RSSCSE) started the CensusAtSchool project in 2000, in conjunction with the Office for National Statistics in the UK.

Now a non-profit making international project funded by organisations interested in promoting good use of statistics, mathematics and data handling, CensusAtSchool was originally a one-off project linked to the UK population census of 2001. It has since developed into a dynamic, ongoing and exciting initiative running in a number of countries. Ireland became involved in CensusAtSchool in 2009 when the Professional Development Service for Teachers (PDST), the CSO, Project Maths and the National Council for Curriculum and Assessment (NCCA) collaborated to set-up the Irish website **www.censusatschool.ie**

The CensusAtSchool project aims to:

- Involve students in collecting data about themselves and improve understanding of a data gathering process, its purpose and benefits to society;
- Foster a positive attitude to statistics through using real data that is of interest to students;
- Enhance the process of statistical enquiry across the curriculum;
- Encourage effective Information and Communication Technology (ICT) teaching and learning;
- Provide access to large and meaningful data sets;
- Make comparisons between the student responses in different countries.

For more information on CensusAtSchool and how to participate, go to:
https://censusatschool.ie/take-part/

Since 2000, several other countries have embraced the project with necessary adjustments to reflect local culture and traditions. These countries include Australia, South Africa, New Zealand, Canada, USA, and Ireland. An International Committee was established in 2007 to enable closer and valid comparisons to be made between the children participating in CensusAtSchool. Five international workshops have taken place to date – in Melbourne, Australia (2007); Los Angeles, USA (2008); Durban, South Africa (2009); London, UK (2010); and San Diego, USA (2012). Do visit the websites of the participating nations and have a look at their projects and the excellent curriculum ideas and resources they have provided.

The worldwide database, which contains well over a million responses, can be sampled over the internet for use in creating teaching and learning materials. It enables teachers and pupils across the world to enhance their data handling skills leading to improved statistical literacy and thinking. The involvement of different countries vastly increases the potential for exchange of information between school-aged children and is a unique way to assess global, social and other changes. It has the added bonus of providing ICT opportunities, and is motivational for both teachers and children alike.

The website at www.censusatschool.com provides access to all resources and each country's own CensusAtSchool website. Do take a look and get involved. The project is totally free to all Irish Schools and offers a unique and different experience for your pupils.

CensusAtSchool 2021/2022 Questionnaire

1. Are you:

☐ Female ☐ Male

2. a) Please state your present age in completed years.

☐ years

2. b) What year are you in at school?

☐ Year e.g. 5th Year

3. In what county do you live?

☐

4. In what country were you born?

☐

5. What is your…
(Answer to nearest tenth of a cm)
* Be cautious of social distancing measures.

Height (without shoes)	.....cm
Open arm span	.....cm
Vertical reach	.....cm
Index finger length (left hand)	.....cm
Ring finger length (left hand)	.....cm

6. a) What is your resting pulse rate?

☐ beats per minute

6. b) Jog on the spot for 30 seconds and record your pulse rate again.

☐ beats per minute

7. In the past week, on how many days have you done a total of 60 minutes or more of physical activity, which was enough to raise your breathing rate?

☐ days

8. a) Over the past 7 days, on how many days were you physically active for a total of at least 60 minutes per day?

☐ days

8. b) Over a typical or usual week, on how many days are you physically active for a total of at least 60 minutes per day?

☐ days

9. a) Are you a member of a sports club (outside of any school club)?

☐ Yes ☐ No

9. b) List any sport/physical activity that you have done with a sports or activity club (not school club) over the last 12 months?

☐

10. How has your level of physical activity been affected since the pandemic?

☐ Increased
☐ Decreased
☐ Remains the same

11. a) How many hours of sleep per night do you usually get when you have school the next day?

☐ hours

11. b) How many hours of sleep per night do you usually get when you don't have school the next day?

☐ hours

12. Do you use a smartwatch to monitor your sleep and physical activity?

☐ Yes ☐ No

13. a) If you could have one app on your phone, which one would it be?

☐ WhatsApp
☐ Snapchat
☐ Instagram
☐ TikTok
☐ Other (Please specify) .....

13. b) Did you download the Covid Tracker app on your phone?

☐ Yes ☐ No

14. In the last 7 days, how many minutes per day did you spend at the following activities?

Watching TV programmes	.....mins
Listening to radio programmes	.....mins
On a mobile phone	.....mins
Playing games on a PC	.....mins
On your PC/iPad/Tablet	.....mins

15. Rank the following internet activities from the most used to the least used?

☐ Watching videos
☐ Messaging/chatting
☐ Social media sites
☐ Listening to music
☐ Creating content
☐ Online gaming
☐ Homework
☐ Looking for information

16. a) On a scale of 0 to 100, how has the pandemic lockdown impacted your mental health?

Not at all — *Very much*
0 — 100

16. b) How strict are your parents / guardians?

Not at all — *Very much*
0 — 100

17. If you had €1000 to donate to a charity of your choice, what type of organisation would you choose? Select one:

☐ Health
☐ Education
☐ Environment
☐ Religious worship
☐ Homelessness
☐ Animals
☐ International aid
☐ Art, culture and sport
☐ Other (Please specify) .....

18. a) In which country is the FIFA Men's World Cup 2022 taking place?

☐ Israel
☐ Italy
☐ Qatar
☐ Saudi Arabia
☐ Other (Please specify) .....

18. b) 32 teams will play in the FIFA Men's World Cup in 2022. Estimate the number of matches that will take place during the tournament?

☐ matches

19. What is the most useless talent you have?

☐

This resource is from the ***CensusAtSchool*** project at www.censusatschool.ie

About CSO Competitions and Awards

As part of our Educational Outreach programme, the CSO runs statistical competitions and sponsors awards.

John Hooper Poster Competition: The goal of this competition is to improve students' abilities to describe, explore and investigate their environment using statistics. This national competition is open to teams of 2 to 3 students, up to 18 years old. It was first launched in 2010 to mark the first World Statistics Day.

The Award for the Best Use of CSO Open Data at the BT Young Scientist Exhibition: This award is for the most innovative use, or potential use, of CSO data, be it in statistical analyses, processes or outputs, a piece of research, a visualisation or a data map, the development of a device, a software application or the use of CSO data in any other innovative way.

European Statistics Competition (ESC): The main goal of the ESC is to help young people to learn about statistics in a fun and inspiring way. In addition, it encourages teachers to use new methods when teaching about statistics. It also serves to promote the use of facts offered by official statistics and applying learned statistical knowledge. The competition also aims to show pupils and teachers the meaning of statistics in different areas of society and promotes group work and cooperation among students to reach common goals.

John Hooper and Open Data Award winners at the CSO Awards Ceremony 2019.

John Hooper
Medal for Statistics

John Hooper Statistical Poster Competition

The **John Hooper Medal for Statistics** is awarded to the winner of this national poster competition. The goal of the competition is to improve students' abilities to describe their environment with the help of statistics and to use statistics as a tool for making sense of daily life.

Who can take part?

Teams of 2 to 3 students, born in 2003 and younger, from any part of the island of Ireland. Teachers must register the teams.

How to take part:

1. Find a question
2. Collect or use existing data
3. Review data quality
4. Analyse the data
5. Make the poster

The poster can be about any topic; however, it should reflect or illustrate usage, analysis, interpretation and communication of statistics or statistical information.

Important Dates

- **Registration now open**
  www.cso.ie/ interactivezone
- **4 March 2022 (5pm)**
  Poster to be submitted via http://www.cso.ie/interactivezone
- **1 April 2022**
  Results will be announced on our website

Why should you get involved?

Taking part will encourage you to:

- work as a team
- investigate real questions using data
- use your analytical and graphical skills
- interpret statistical results
- develop skills in written communication

Winners are eligible to represent Ireland in the European Statistics Competition.

Prizes

€1,600 – €1,000 awarded to the school; €600 awarded to the team and the CSO John Hooper Medal for Statistics.

€1,000 – €650 awarded to the school and €350 awarded to the team.

€600 – €400 awarded to the school and €200 awarded to the team.

For further information see **www.cso.ie/interactivezone**

Best use of **CSO Open Data** at the **BTYSTE**

Best Use of CSO Open Data at the BT Young Scientist

Each year the Central Statistics Office sponsors an award at the BT Young Scientist Exhibition, for the best use of CSO Open Data. The award is aimed at encouraging young people to use open data and is given for the most innovative use, or potential use, of CSO data.

Who can take part?

The BT Young Scientist Exhibition is open to individuals or groups of no more than 3 people from the same school and the same age group.

The BTYSTE competition is open to second level students from Ireland, north and south, who are aged between 12 and 19 years on 31st October 2021.

There are 3 age groups:

- **Junior:** 1st & 2nd Year (Rep. of Ireland) / Year 8, 9 & 10 (Northern Ireland)
- **Intermediate:** 3rd & 4th Year (Rep. of Ireland) / Year 11 & 12 (Northern Ireland)
- **Senior:** 5th & 6th Year (Rep. of Ireland) / Year 13 & 14 (Northern Ireland)

Prize

Award for the Best Use of CSO Open Data, presented at the BT Young Scientist Exhibition, and a Medal presented at the Annual CSO Award Ceremony.

Why should you get involved?

The award is aimed at encouraging young people to use open data and is given for the most innovative use, or potential use, of CSO data. The award is an excellent extra-curricular activity for students to add to their CV or College application. The student can develop skills such as research methodology, experiment design, data collection, evaluation and analysis, critical thinking, problem solving, communications, innovation and entrepreneurship. Projects entered into BTYSTE tend to support a cross-curricular approach to STEM learning.

How to take part:

Entries can be in any format, be it in statistical analyses, statistical processes or statistical outputs. They can be scientific or mathematical, a piece of research, a visualisation or a data map, the development of a device, a software application or the use of CSO open data in any other innovative way.

To register for the BTYSTE, go to https:// btyoungscientist.com

Exhibition Dates

12–14 **January 2022**

For further information see **www.cso.ie/interactivezone**

European Statistics Competition

European Statistics Competition

European Statistics Competition

The main goal of the European Statistics Competition is to help young people to learn about statistics in a fun and inspiring way. In addition, it encourages teachers to use new methods when teaching about statistics. It also serves to promote the use of facts offered by official statistics and applying learned statistical knowledge.

Who can take part?
The winners of the John Hooper Medal for Statistics 2022 competition from both age categories are eligible to go forward and represent Ireland in this competition.

How to take part:
Participating teams are required to make a video in which they explain a statistical concept. Videos will have a maximum length of two minutes, the topic which will be revealed to participating teams in March 2022. By referencing appropriate statistics, contestants have to demonstrate how their country or region compares with its European counterparts, highlighting interesting characteristics in relation to the European average.

Prizes

Each member and mentor of the winning European teams from both age categories will receive the following awards:

- gift card of €400
- certificate of achievement
- publications and Eurostat promotional material

Why should you get involved?
The main objectives of the ESC are to promote curiosity and interest in statistics among students, to encourage teachers to use new materials for teaching statistics by promoting the use of real data provided by official statistics and search for applications of acquired statistical knowledge. Moreover, it aims to show the role of statistics to students and teachers in various aspects of society, and to promote teamwork and collaboration among students to achieve common goals.

Competition Schedule:
The competition schedule for 2022 is not yet finalised. It normally runs from April to June. CSO will invite participation from John Hooper winners and liaise with them in relation to the requirements.

For further information see **www.cso.ie/interactivezone**

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Irish Babies' Names 2020

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Information Society Statistics
Households 2020

29%
daily internet users use it all the time /nearly all the time

Of internet users....

63% bought clothes shoes or accessories

33% bought ready made food delivered

24% bought sports goods

86%
use email

76%
use internet banking

73%
used internet telephoning /video calls (Skype, Zoom, etc.)

21%
used education websites/portals

68%
watch video content from sharing services (YouTube, TikTok, etc.)

55%
watch video on demand (Netflix, Disney+, Amazon Prime, etc.)

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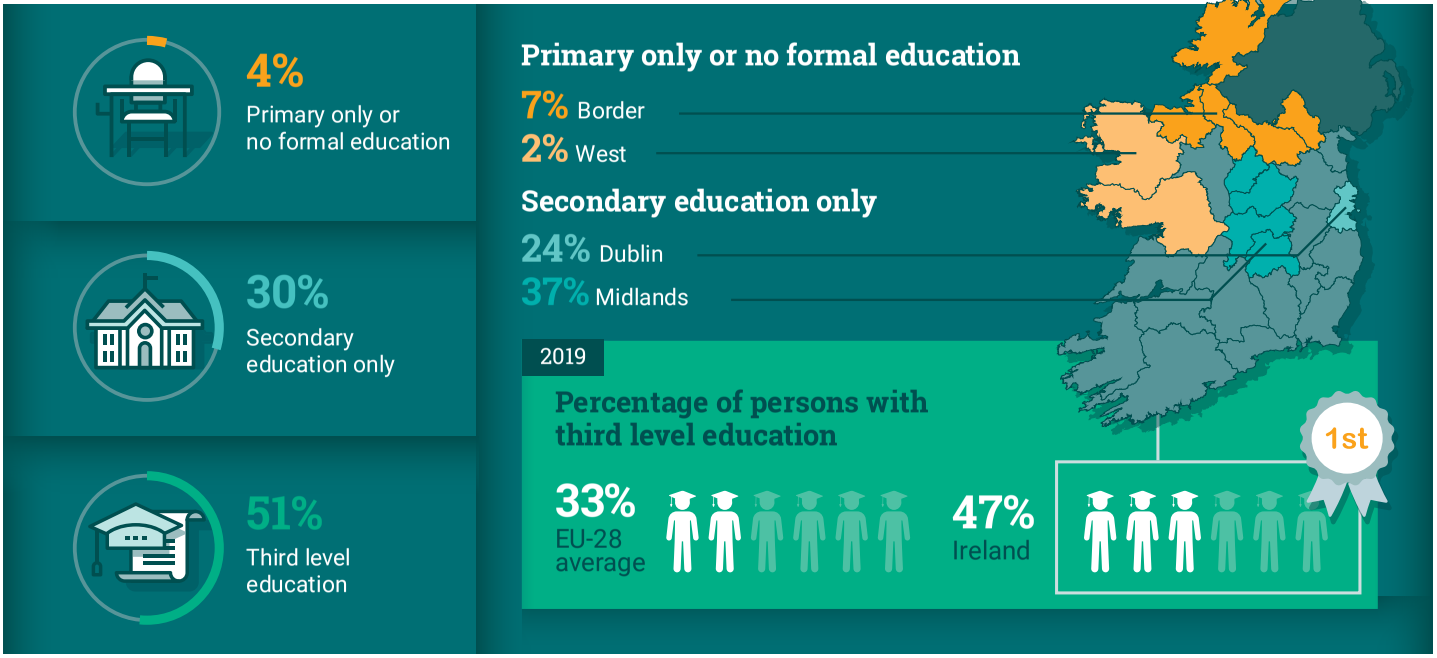
Education Attainment Thematic Report 2020

Highest level of education attained by persons aged 25 - 64 years



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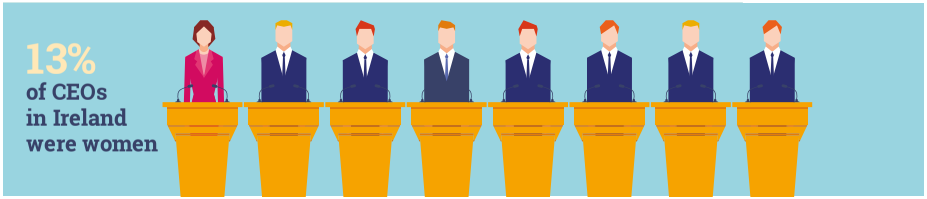
Gender Balance in Business 2021



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Ireland's Economy 2020

What are we spending our money on?[1]

-10.4% Personal Consumption Expenditure

-18.4% Transport

-39.9% Restaurants and hotels

Year on Year Growth

5.9% GDP

3.5% GNI*

How are the different parts of our economy doing?[1]

+22.1% Industry

+13.8% Information & Communication

-19.3% Distribution, Transport, Hotels & Restaurants

Our interactions with the rest of the world

€145.0bn Goods Net Exports

-€61.9bn Services Net Imports

-€9.9bn Current Account

€92.9bn Net profit outflow

€24.0bn Current Account*

-4.9% Modified Domestic Demand

Removing the effects of globalisation

-3.5% GNI*

-4.3% NNI

[1](2020 vs 2019)

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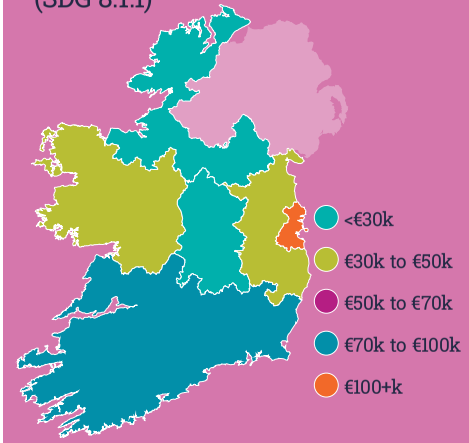
SUSTAINABLE DEVELOPMENT GOALS

Goal 8 - Decent Work and Economic Growth

GDP per Capita by Region, 2019[1] (SDG 8.1.1)



(Map: NUTS 3)

South East, South West and Mid-West are shown combined as a single NUTS 2 region. The other regions are at NUTS 3 level

2019[1] Preliminary

Source: CSO, National Accounts

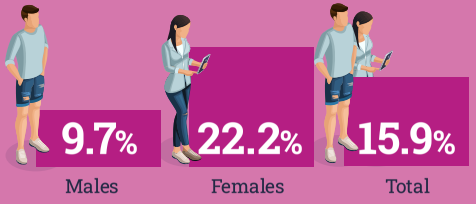
Average Hourly Earnings, 2019-2020 (SDG 8.5.1)

Source: CSO, Earnings & Labour Costs

Unemployment Rate % (Aged 15-74 Years), April 2020 & 2021 (SDG 8.5.2)

Source: CSO, Monthly Unemployment

Youth Unemployment Rate % (Aged 15-24 Years), April 2021 (SDG 8.6.1)



Source: CSO, Monthly Unemployment

Fatal and Non-Fatal Occupational Injuries, 2019 (SDG 8.8.1)

Non-Fatal Injuries

Workers	Non-Workers	Total
8,888	447	9,335

Fatal Accidents 47

Source: Health and Safety Authority

Notes

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