



Saolta



INDUSTRY, INNOVATION, AND INFRASTRUCTURE  
Global Goal 9

*“We BELIEVE in  
technologists who think  
GLOBALLY, act  
LOCALLY and change  
the WORLD.”*

Yurii Romashko

# 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



INDUSTRY, INNOVATION, AND INFRASTRUCTURE  
Global Goal 9

*“  
WE’RE LIVING IN AN  
UNPRECEDENTED  
DIGITAL ERA  
AND OUR  
GLOBAL GOALS  
SOLUTIONS MUST REFLECT THAT.  
”*

Nora Altwaijri

<https://sdgs.un.org/goals/goal9>



This programme is funded by Irish Aid at the Department of Foreign Affairs. Irish Aid is the Government's overseas development programme which supports partners working in some of the world's poorest countries. Irish Aid also supports global citizenship education in Ireland to encourage learning and public engagement with global issues. The content of this communication represents the views of the author only and does not necessarily represent or reflect DFA policy.





# Saolta



**TARGET 9-1**



DEVELOP SUSTAINABLE, RESILIENT AND INCLUSIVE INFRASTRUCTURES

**TARGET 9-2**



PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION

**TARGET 9-3**



INCREASE ACCESS TO FINANCIAL SERVICES AND MARKETS

**TARGET 9-4**



UPGRADE ALL INDUSTRIES AND INFRASTRUCTURES FOR SUSTAINABILITY

## 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



Targets

<https://sdgs.un.org/goals/goal9>

**TARGET 9-5**



ENHANCE RESEARCH AND UPGRADE INDUSTRIAL TECHNOLOGIES

**TARGET 9-A**



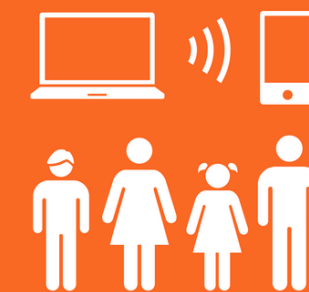
FACILITATE SUSTAINABLE INFRASTRUCTURE DEVELOPMENT FOR DEVELOPING COUNTRIES

**TARGET 9-B**



SUPPORT DOMESTIC TECHNOLOGY DEVELOPMENT AND INDUSTRIAL DIVERSIFICATION

**TARGET 9-C**



UNIVERSAL ACCESS TO INFORMATION AND COMMUNICATIONS TECHNOLOGY





## Ireland's UN SDG's - Goal 9 Industry Innovation and Infrastructure 2021

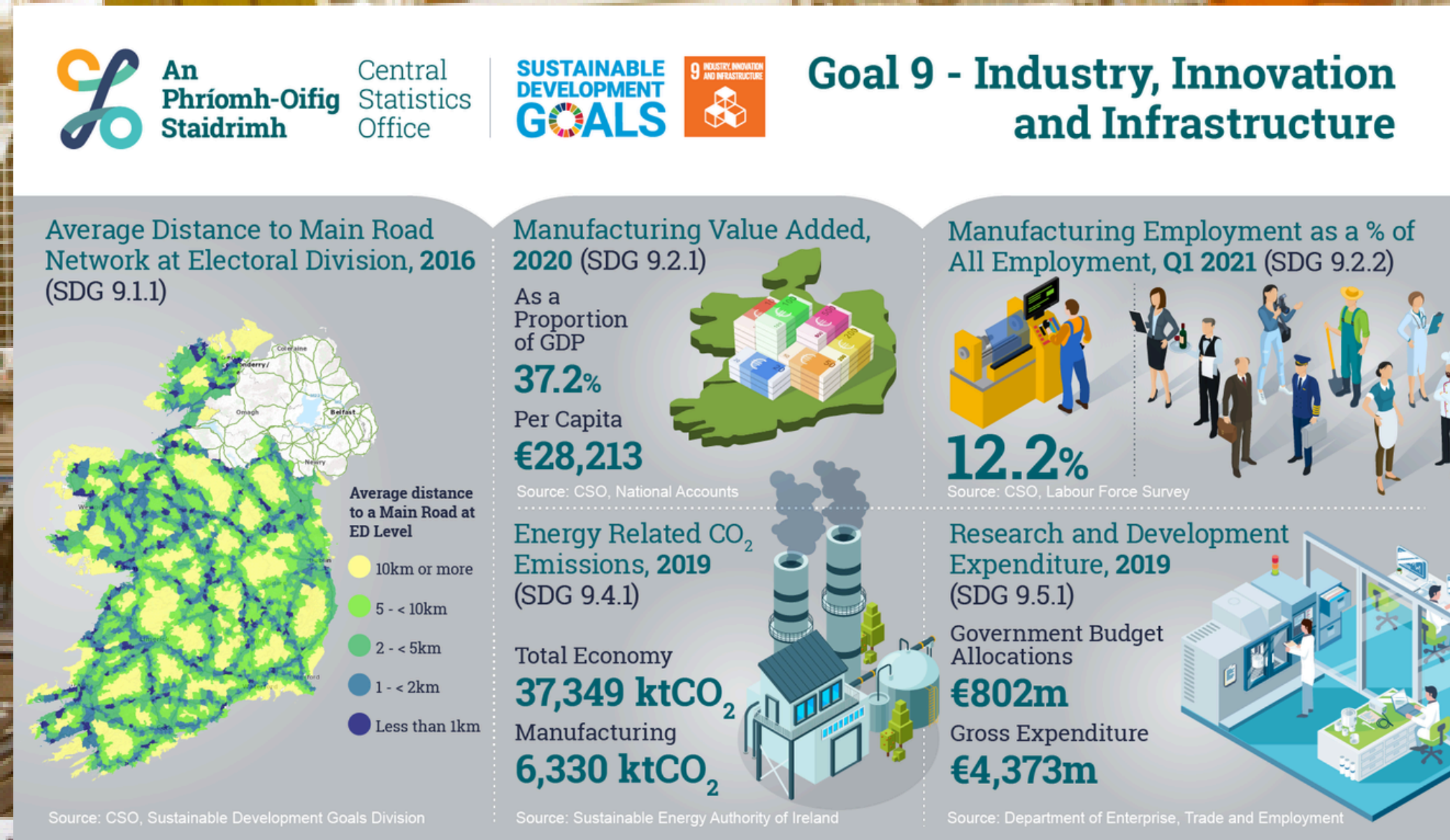
Over the past decade Ireland's economic growth has been characterised by increases in the number employed and by growth in productivity.

Ireland faces two productivity challenges going forward:

How do we drive productivity growth in the non-exporting sectors of the economy and among smaller firms?

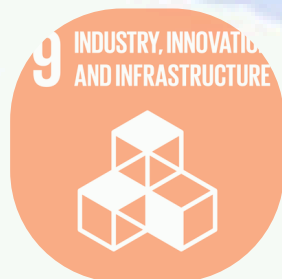
How do we maintain an attractive business environment for high productivity exporting firms (both Irish owned and otherwise)?

(Cso.ie, 2023)



(cso.ie, 2023)





## SDG 9 Snapshots Ireland

**Health:**  
Underfunding and capacity constraints in the healthcare system result in overcrowding, long waiting lists, and difficulty accessing specialized services.  
(Timoney & Conroy , 2024)

**Long Lead Times:**  
Many infrastructure projects in Ireland face lengthy timelines from planning to completion, often taking double the time they did in the recent past. This delays the delivery of essential services and increases project costs.  
(Doyle, 2025)

**Housing:**  
A significant undersupply of housing, especially social and affordable housing, is a major concern, with waiting lists exceeding the number of planned homes.  
(SJI, 2025)

**Transport:**  
Insufficient investment in transport infrastructure, including roads, public transport, and public transportation options in rural areas, leads to congestion, increased travel times, and limited accessibility.  
(Timoney & Conroy , 2024)

Ireland has major deficits in public infrastructure due to underfunding, short-term planning, and a lack of vision. New approaches are required to ensure long-term planning, coordination with spatial and urban policy,  
(Dublin Chamber, 2025)







# Government Departments with responsibility for Industry, Innovation and Infrastructure

## Government Department of Enterprise, Trade and Employment (DETE) 2025

### Ministers with responsibilities

**Peter Burke**

Minister for Enterprise, Tourism and Employment

**Niamh Smyth**

Minister of State for Trade Promotion, Artificial Intelligence and Digital Transformation

**Alan Dillon**

Minister of State for Small Businesses and Retail

(DETE, 2025)

## Department of Public Expenditure, Infrastructure, Public Service Reform and Digitalisation

### Ministers with responsibilities

**Jack Chambers**

Minister for Public Expenditure, Infrastructure, Public Service Reform and Digitalisation

**Kevin 'Boxer' Moran**

Minister of State with responsibility for the Office of Public Works

**Emer Higgins**

Minister of State at the Department of Public Procurement, Digitalisation and eGovernment

(Gov.ie, 2025)





# Cooperatives And Sustainable Development Goal 9

Transforming our world: A cooperative 2030 Cooperative contributions to SDG 9

Cooperatives play a key  
role in using collective  
action

Promote social innovations  
contributing to safeguard biodiversity,  
the environment and culture.

Cooperatives promote  
innovative market  
solutions

## Links: SDGs and CO-OPs

SDG 9 is closely linked to the cooperative model through its emphasis on resilient infrastructure, sustainable industrialization, and fostering innovation.

## SDG 9 and Cooperatives:

Cooperatives, by their nature, often contribute to SDG 9 by building local infrastructure, promoting inclusive and sustainable industrial practices, and fostering innovation within their communities. .

## Bottom up Approach:

Cooperatives in rural areas have a fundamental role in enabling basic services and infrastructure as the key precondition for small-scale food producers to access inclusive and equitable markets.

(O'Driscoll, 2023)



**Irish Aid**  
An Roinn Gnóthaí Eachtracha  
Department of Foreign Affairs



**Irish Rural Link**  
Nasc Tuaithe na hÉireann



**Maynooth University**  
National University  
of Ireland Maynooth

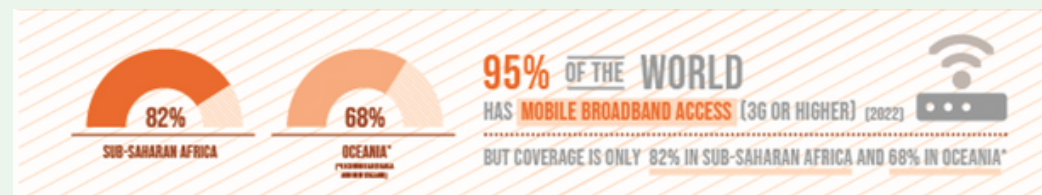


The Voice of  
Adult Learning



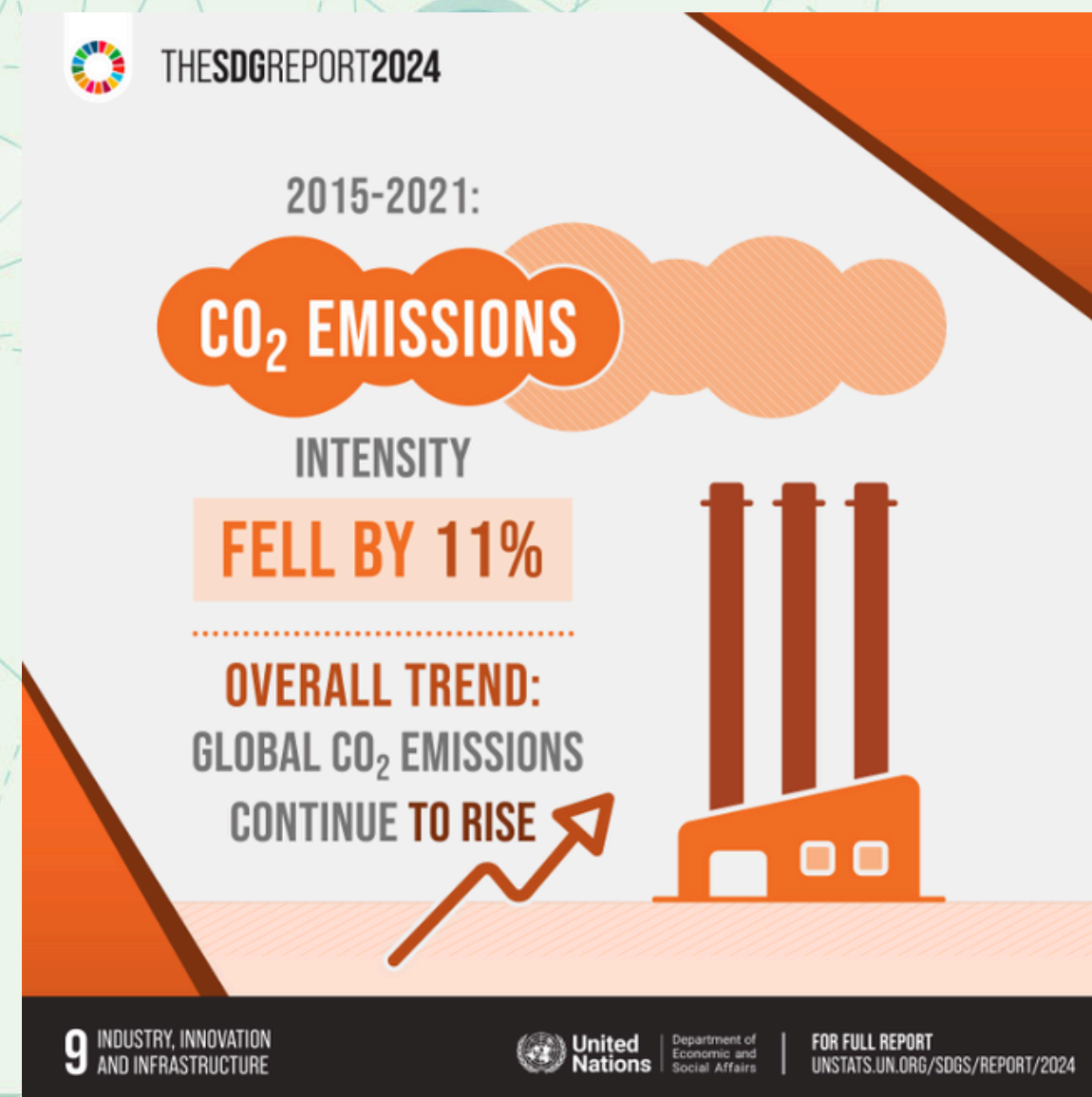
**cetb**  
Coil na Ceoláirí agus  
Coil na Cluicéir  
Celtic Education and  
Training Board





## Global Statistics SDG 9

BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION



(unstats\_report, 2024)



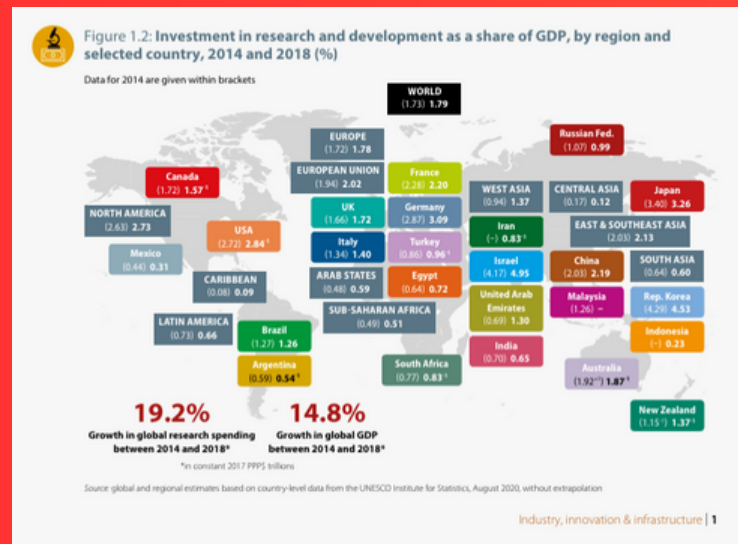


## Development Education 31 Resources found for SDG 9

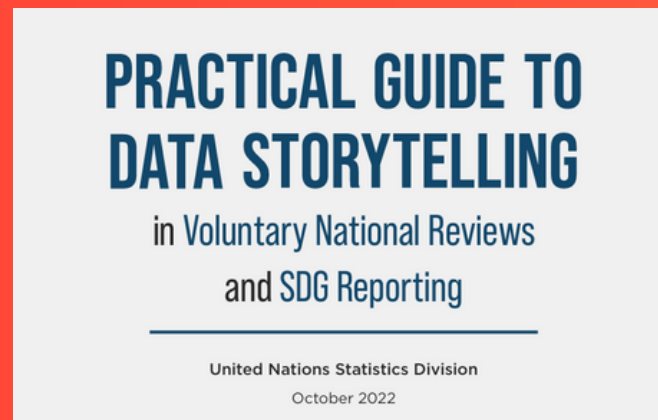
([DevelopmentEducation.ie](https://DevelopmentEducation.ie), 2018)



(EU, 2025)



(UNESCO, 2018)



(UNSD, 2022)



(Fuller et al., 2024)

# SDG 9 Embedding GCE in ACE

9 INDUSTRY, INNOVATION  
AND INFRASTRUCTURE



## Resources



(Worlds Largest Lesson, 2022)

## SDG Knowledge Hub

99 Guest Articles  
80 Policy Briefs  
1764 News  
502 Events  
13 Generation 2030

Goal 9 Industry, innovation and  
infrastructure

(IISD, 2025)



(OECD, 2024)



This programme is funded by Irish Aid at the Department of Foreign Affairs. Irish Aid is the Government's overseas development programme which supports partners working in some of the world's poorest countries. Irish Aid also supports global citizenship education in Ireland to encourage learning and public engagement with global issues. The content of this communication represents the views of the author only and does not necessarily represent or reflect DFA policy.





50 Shades Greener (2023) SDG 9 – industry, innovation and infrastructure, SDG 9 – Industry, Innovation and Infrastructure. Available at: <https://www.fiftyshadesgreener.ie/blog/sdg-series-industry-innovation-and-infrastructure> (Accessed: 07 July 2025).

9. industry, Innovation and Infrastructure (2018) DevelopmentEducation.ie. Available at: <https://developmenteducation.ie/resources/sdgs/9-industry-innovation-and-infrastructure/> (Accessed: 07 July 2025).

cso.ie (2023) UN SDG's goal 9 - industry innovation and Infrastructure, CSO. Available at: <https://www.cso.ie/en/statistics/unsustainabledevelopmentgoals/unsdgsgoal9-industryinnovationandinfrastructure/> (Accessed: 07 July 2025).

DETE (2025) Department of Enterprise, Trade and Employment . Available at: <https://enterprise.gov.ie/en/#:~:text=Department%20of%20Enterprise%2C%20Trade%20and%20Employment%20%2D%20DETE> (Accessed: 07 July 2025).

Doyle, R. (2025) Accelerating Ireland's critical infrastructure: Reflections from infrastructure summit 2025, MCO. Available at: <https://mco.ie/accelerating-irelands-critical-infrastructure-reflections-from-infrastructure-summit-2025/#:~:text=Published%20By&text=Picture%20this:%20It's%202025%2C%20and,infrastructure%20our%20society%20desperately%20needs>. (Accessed: 07 July 2025).

Dublin Chamber (2025) My home, Dublin Chamber. Available at: <https://www.dublinchamber.ie/Advocacy/Policy-Priorities/Infrastructure#:~:text=Ireland%20has%20major%20deficits%20in,and%20improving%20quality%20of%20life>. (Accessed: 07 July 2025).

EU (2025) Know SDGs, European Commision. Available at: <https://knowsdgs.jrc.ec.europa.eu/sdg/9> (Accessed: 07 July 2025).

Gov.ie (2025) Department of Public Expenditure, Infrastructure, Public Service Reform and Digitalisation. Available at: <https://www.gov.ie/en/department-of-public-expenditure-infrastructure-public-service-reform-and-digitalisation/#:~:text=Department%20of%20Public%20Expenditure%2C%20Infrastructure%2C%20Public%20Service%20Reform%20and%20Digitalisation> (Accessed: 07 July 2025).

Happen Films (2022) Living the Change: Inspiring Stories for a Sustainable Future, Happen Films. Available at: <https://youtu.be/gq9sg397ee8?si=yTxzPdGaqlDIR7UL> (Accessed: 07 July 2025).

IIEA (2025) Enhancing ground transport infrastructure for a prosperous Ireland, IIEA. Available at: <https://www.iiea.com/events/enhancing-ground-transport-infrastructure-for-a-prosperous-ireland#:~:text=Ireland's%20National%20Development%20Plan%202030%20outlines%20ambitious,increasing%20mobility%20needs%20and%20reducing%20carbon%20emissions>. (Accessed: 07 July 2025).

Koiviola, Z. (2023) Sustainable manufacturing, Good News from Finland. Available at: <https://www.goodnewsfinland.com/articles/five-from-finland/2023/sustainable-manufacturing/> (Accessed: 07 July 2025).

McCrae, F. (2025) Transforming our world: A cooperative 2030, COPAC. Available at: [https://www.copac.coop/wp-content/uploads/2019/12/COPAC\\_TransformBrief\\_SDG09.pdf](https://www.copac.coop/wp-content/uploads/2019/12/COPAC_TransformBrief_SDG09.pdf) (Accessed: 07 July 2025).

## References



## Sustainable Development Goal 9

## Bonus Material

OECD (2024) Shaping smart cities of all sizes, Proceedings of the 4th OECD Roundtable on Smart Cities and Inclusive Growth . Available at: [https://www.oecd.org/content/dam/oecd/en/about/programmes/cfe/the-oecd-programme-on-smart-cities-and-inclusive-growth/Proceedings-4th-Roundtable-Smart-Cities-Inclusive-Growth.pdf/\\_jcr\\_content/renditions/original./Proceedings-4th-Roundtable-Smart-Cities-Inclusive-Growth.pdf](https://www.oecd.org/content/dam/oecd/en/about/programmes/cfe/the-oecd-programme-on-smart-cities-and-inclusive-growth/Proceedings-4th-Roundtable-Smart-Cities-Inclusive-Growth.pdf/_jcr_content/renditions/original./Proceedings-4th-Roundtable-Smart-Cities-Inclusive-Growth.pdf) (Accessed: 07 July 2025).

O'Driscoll, C. (2023) Urban sprawl: Land-use, travel behaviours, and emissions in Ireland, UCC Library. Available at: <https://cora.ucc.ie/items/110a05f4-201f-4e5b-b0aa-0be716a1c134> (Accessed: 07 July 2025).

SJI (2025) Sustainable Progress Index 2025, Social Justice Ireland. Available at: <https://www.socialjustice.ie/system/files/file-uploads/2023-02/Sustainable%20Progress%20Index%202023%20Web%20Version%20-%20FINAL.pdf> (Accessed: 07 July 2025).

Social Innovation Hub (2025) The Social Innovation Hub, Ballymun, Connected Hubs. Available at: <https://connectedhubs.ie/hubs/profile/167#:~:text=About%20Our%20Hub,grow%20their%20networks%20and%20business>. (Accessed: 07 July 2025).

Third way (2020) Building Back Better: Investing in Clean Infrastructure to Drive Economic Recovery, Third way. Available at: <https://www.thirdway.org/memo/building-back-better-investing-in-clean-infrastructure-to-drive-economic-recovery> (Accessed: 07 July 2025).

Timoney, K. and Conroy , N. (2024) Ireland's infrastructure demands, Irish Fiscal Advisory Council. Available at: <https://www.fiscalcouncil.ie/infrastructure/#:~:text=There%20are%20obvious%20areas%20where,will%20require%20additional%20construction%20workers>. (Accessed: 07 July 2025).

UCC (2025) SDG 9 - industry, innovation and infrastructure, University College Cork. Available at: <https://www.ucc.ie/en/research/sdgs/sdg9-industryinnovationandinfrastructure/#sdg-9-case-studies> (Accessed: 07 July 2025).

UNESCO (2018) Facts and Figures from the UNESCO SCIENCE REPORT The race against time for smarter development, UNESCO. Available at: <https://www.unesco.org/reports/science/2021/sites/default/files/medias/fichiers/2022/04/Factsheet%20USR21%20SDG%209.pdf> (Accessed: 07 July 2025).

UNSD (2022) In Voluntary National Reviews and SDG reporting, United Nations Statistics Division. Available at: [https://unstats.un.org/sdgs/data-storytelling/documents/Practical\\_Guide\\_to\\_Data\\_Storytelling\\_in\\_VNRs\\_and\\_SDG\\_Reporting.pdf](https://unstats.un.org/sdgs/data-storytelling/documents/Practical_Guide_to_Data_Storytelling_in_VNRs_and_SDG_Reporting.pdf) (Accessed: 07 July 2025).

WLL (2022) Goal 9 - industry, Innovation and Infrastructure, The World's Largest Lesson. Available at: <https://worldslargestlesson.globalgoals.org/goal/goal-9-industry-innovation-and-infrastructure/> (Accessed: 07 July 2025).



This programme is funded by Irish Aid at the Department of Foreign Affairs. Irish Aid is the Government's overseas development programme which supports partners working in some of the world's poorest countries. Irish Aid also supports global citizenship education in Ireland to encourage learning and public engagement with global issues. The content of this communication represents the views of the author only and does not necessarily represent or reflect DFA policy.