



European Innovation Scoreboard 2023 - Country profile Malta

European Commission

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 $\label{eq:common Policy Centre} \mbox{Directorate } \mbox{G-Common Policy Centre}$

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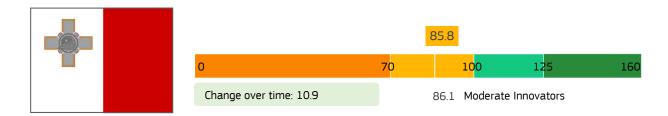
European Innovation Scoreboard 2023 Country profile Malta

The report was prepared by

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The European Innovation Scoreboard report and annexes, and the indicators database are available at: https://research-and-innovation.ec.europa.eu/statistics/performance-indicators/european-innovation-scoreboard_en



| Malta | | Performance | | |
|--|----------------------|---------------------|-----------------------|--|
| Malta | | change 2016- | | |
| | in 2023 | 2023 | 2023 | |
| SUMMARY INNOVATION INDEX | 85.8 | 10.9 | -2.6 | |
| Human resources | 77.4 | 1.7 | -3.2 | |
| Doctorate graduates | 25.8 | 11.4 | 0.0 | |
| Population with tertiary education | 102.3 | -0.6 | -0.6 | |
| Lifelong learning | 108.8 | -12.1 | -12.1 | |
| Attractive research systems | 126.9 | 74.9 | 41.5 | |
| International scientific co-publications | 124.7 | 91.5 | 18.4 | |
| Most cited publications | 88.2 | 20.1 | 36.7 | |
| Foreign doctorate students | 206.0 | 184.9 | 73.9 | |
| Digitalisation | 130.6 | 16.9 | 9.1 | |
| Broadband penetration | 123.6 | 33.3 | 18.0 | |
| People with above basic overall digital skills | 140.2 | 0.0 | 0.0 | |
| Finance and support | 12.8 | -20.8 | -3.5 | |
| R&D expenditures in the public sector | 18.8 15.6 | -11.3 | 0.0 | |
| Venture capital expenditures | | -8.1 | 4.7 | |
| Government support for business R&D Firm investments | 2.2 40.9 | -47.3 | -16.9 -12.2 | |
| | | | | |
| R&D expenditure in the business sector | 24.3 66.4 | 1.5 4.0 | -1.5 -34.0 | |
| Non-R&D Innovation expenditures | | | | |
| Innovation expenditures per employee | 36.0 120.8 | 15.7 12.4 | -2.8 3.9 | |
| Use of information technologies | | | | |
| Enterprises providing ICT training | 134.5 | 21.7 3.4 | 4.5 3.4 | |
| Employed ICT specialists Innovators | 106.7 66.0 | 7.9 | -52.1 | |
| | | -5.9 | | |
| Product innovators (SMEs) Business process innovators (SMEs) | 57.6 73.3 | 22.7 | -72.9 -30.0 | |
| Linkages | 100.7 | 56.7 | -14.1 | |
| Innovative SMEs collaborating with others | 65.0 | 48.6 | -1.6 | |
| Public-private co-publications | 131.9 | 106.0 | 19.3 | |
| Job-to-job mobility of HRST | 116.7 | 41.2 | -41.2 | |
| Intellectual assets | 125.7 | -14.9 | 1.0 | |
| PCT patent applications | 60.1 | 13.7 | 4.9 | |
| Trademark applications | 201.0 | 0.0 | 0.0 | |
| Design applications | 139.0 | -62.8 | -3.3 | |
| Employment impacts | 108.7 | -8.9 | -16.2 | |
| Employment in knowledge-intensive activities | 165.1 | 0.0 | 0.0 | |
| Employment in innovative enterprises | 62.4 | -17.4 | -31.5 | |
| Sales impacts | 70.1 | 12.4 | -10.2 | |
| Medium and high-tech goods exports | 88.9 | -3.5 | -1.0 | |
| Knowledge-intensive services exports | 70.5 | 28.4 | -6.0 | |
| Sales of innovative products | 43.1 | 17.1 | -29.6 | |
| Environmental sustainability | 112.5 | 19.2 | 11.3 | |
| Resource productivity | 130.8 | 55.7 | 36.1 | |
| Air emissions by fine particulate matter | 130.7 | 10.6 | 0.6 | |
| Environment-related technologies | 68.2 | 4.8 | 7.2 | |
| The second column shows performance relative | | | | |

The second column shows performance relative to that of the EU in 2023. Colours next to the column show matching colour codes: dark green: above 125% of the performance of the EU in 2023; light green: between 100% and 125%; light orange: between 70% and 100%; dark orange: below 70%. The next columns show performance change over time between 2016 and 2023 and between 2022 and 2023, with scores relative to those of the EU in 2016. Positive (negative) performance changes are shown in green (red).

MALTA is a **Moderate Innovator** with performance at 85.8% of the EU average. Performance is below the average of the Moderate Innovators. Performance is increasing at a rate higher than that of the EU (8.5%-points). The country's performance gap to the EU is becoming smaller.

Relative strengths

Foreign doctorate students
Trademark applications
Employment in knowledge-intensive activities
People with above basic overall digital skills
Design applications

Relative weaknesses

Government support for business R&D Venture capital expenditures R&D expenditures in the public sector R&D expenditure in the business sector Doctorate graduates

Strong increases since 2016

Foreign doctorate students
Public-private co-publications
International scientific co-publications

Strong decreases since 2016

Design applications
Government support for business R&D
Employment in innovative enterprises

Strong increases since 2022

Foreign doctorate students Most cited publications Resource productivity

Strong decreases since 2022

Product innovators

Job-to-job mobility of HRST

Non-R&D Innovation expenditures



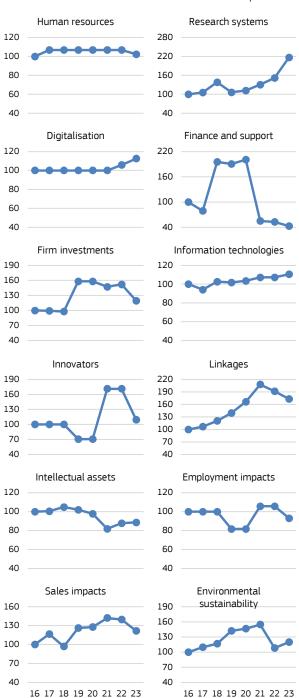
The graph on the left shows the evolution of **innovation performance over time** against the performance of the country in 2016. Innovation performance increased between 2016 and 2021 and then declined in both 2022 and 2023, leading to a 13% performance increase in 2023.

The graphs below show the evolution of innovation performance in the different **innovation dimensions** against the performance of the country in 2016. Performance increased most strongly for Research systems and Linkages. Performance declined for Finance and support, Intellectual assets and Employment impacts.

Structural differences with the EU are shown below:

- Malta has higher per capita income and a faster growing economy. Business services takes up a larger share of the economy, with SMEs accounting for a larger share of turnover.
- Enterprise births, and FDI net inflows add positively to the innovation climate, Top R&D spenders, and Buyer sophistication add negatively.
- Malta has higher shares of In-house business process innovators, Non-innovators with potential to innovate, Noninnovators without disposition to innovate and Non-innovators without disposition to innovate.
- Government procurement as driver of research and innovation is above the EU average.
- Malta's performance on climate change indicators is inconsistent, with below-average achievements in recycling.

| Employment share Manufacturing (NACE C) (%) 11.0 16.4 of which High and Medium high-tech (%) 29.7 38.0 Employment share Services (NACE G-N) (%) 47.3 41.1 of which Knowledge-intensive services (%) 40.4 35.8 Turnover share SMEs (%) 50.6 34.1 Turnover share SMEs (%) 50.6 34.1 Turnover share large enterprises (%) 16.0 49.6 Foreign-controlled enterprises – share of value added (%) 17.0 11.8 Business and entrepreneurship Enterprise births (10+ employees) (%) 7.2 1.0 Total Entrepreneurial Activity (TEA) (%) 7.4 6.8 7.1 Total Entrepreneurial Activity (TEA) (%) 7.4 6.8 7.1 Total Entrepreneurial Activity (TEA) (%) 7.5 7.1 Innovation profiles 7.7 3.7 Innovation profiles 7.7 3.7 Innovation profiles 7.7 3.7 Innovation profiles 8.1 12.2 In-house product innovators with market novelties 8.1 12.2 In-house product innovators without market novelties 8.1 12.2 Innovation active non-innovators 7.1 9.1 6.5 Innovators that do not develop innovations themselves 7.1 6.5 Innovators with potential to innovate 7.1 9.1 7.2 Non-innovators without disposition to innovate 7.1 9.1 7.2 Non-innovators without disposition to innovate 7.1 9.1 7.2 Non-innovators without disposition to innovate 7.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9 | inconsistent, with below-average achievements | ın recyc | ung. |
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| In-house product innovators without market novelties In-house business process innovators In-house business process innovators Innovators that do not develop innovations themselves Innovation active non-innovators Innovation Perceptions Index (0 to innovate Innovation Perceptions Index (0 to 100 best) Innovation Perceptions Index (0 to 100 best) Innovation Perceptions Index (0 to 100 best) Innovation Index Innovation I | In-house product innovators with market novelties | 8.1 | 12.2 |
| Innovators that do not develop innovations themselves 5.1 6.5 Innovation active non-innovators 2.0 4.1 Non-innovators with potential to innovate 20.9 17.2 Non-innovators without disposition to innovate 38.0 30.7 Governance and policy framework Corruption Perceptions Index (0 to 100 best) 52.7 64.0 Basic school entrepreneurial education and training n/a 3.3 Govt. procurement of advanced tech. products 3.7 3.5 Rule of law (-2.5 to 2.5 best) 0.9 1.0 Climate change indicators Circular material use rate 10.8 11.8 Greenhouse gas emissions intensity of energy consumption 61.7 82.8 Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | | 8.1 | 12.8 |
| Innovators that do not develop innovations themselves 5.1 6.5 Innovation active non-innovators 2.0 4.1 Non-innovators with potential to innovate 20.9 17.2 Non-innovators without disposition to innovate 38.0 30.7 Governance and policy framework Corruption Perceptions Index (0 to 100 best) 52.7 64.0 Basic school entrepreneurial education and training n/a 3.3 Govt. procurement of advanced tech. products 3.7 3.5 Rule of law (-2.5 to 2.5 best) 0.9 1.0 Climate change indicators Circular material use rate 10.8 11.8 Greenhouse gas emissions intensity of energy consumption 61.7 82.8 Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | In-house business process innovators | 17.9 | 16.5 |
| Innovation active non-innovators 2.0 4.1 Non-innovators with potential to innovate 20.9 17.2 Non-innovators without disposition to innovate 38.0 30.7 Governance and policy framework Corruption Perceptions Index (0 to 100 best) 52.7 64.0 Basic school entrepreneurial education and training n/a 3.3 Govt. procurement of advanced tech. products 3.7 3.5 Rule of law (-2.5 to 2.5 best) 0.9 1.0 Climate change indicators Circular material use rate 10.8 11.8 Greenhouse gas emissions intensity of energy consumption 61.7 82.8 Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | | 5.1 | 6.5 |
| Non-innovators without disposition to innovate 38.0 30.7 Governance and policy framework Corruption Perceptions Index (0 to 100 best) 52.7 64.0 Basic school entrepreneurial education and training n/a 3.3 Govt. procurement of advanced tech. products 3.7 3.5 Rule of law (-2.5 to 2.5 best) 0.9 1.0 Climate change indicators Circular material use rate 10.8 11.8 Greenhouse gas emissions intensity of energy consumption 61.7 82.8 Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | | 2.0 | 4.1 |
| Non-innovators without disposition to innovate 38.0 30.7 Governance and policy framework Corruption Perceptions Index (0 to 100 best) 52.7 64.0 Basic school entrepreneurial education and training n/a 3.3 Govt. procurement of advanced tech. products 3.7 3.5 Rule of law (-2.5 to 2.5 best) 0.9 1.0 Climate change indicators Circular material use rate 10.8 11.8 Greenhouse gas emissions intensity of energy consumption 61.7 82.8 Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | Non-innovators with potential to innovate | 20.9 | 17.2 |
| Governance and policy framework Corruption Perceptions Index (0 to 100 best) 52.7 64.0 Basic school entrepreneurial education and training n/a 3.3 Govt. procurement of advanced tech. products 3.7 3.5 Rule of law (-2.5 to 2.5 best) 0.9 1.0 Climate change indicators Circular material use rate 10.8 11.8 Greenhouse gas emissions intensity of energy consumption 61.7 82.8 Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | | 38.0 | 30.7 |
| Basic school entrepreneurial education and training n/a 3.3 Govt. procurement of advanced tech. products 3.7 3.5 Rule of law (-2.5 to 2.5 best) 0.9 1.0 Climate change indicators Circular material use rate 10.8 11.8 Greenhouse gas emissions intensity of energy consumption 61.7 82.8 Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | · | | |
| Basic school entrepreneurial education and training n/a 3.3 Govt. procurement of advanced tech. products 3.7 3.5 Rule of law (-2.5 to 2.5 best) 0.9 1.0 Climate change indicators Circular material use rate 10.8 11.8 Greenhouse gas emissions intensity of energy consumption 61.7 82.8 Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | | 52.7 | 64.0 |
| Rule of law (-2.5 to 2.5 best) 0.9 1.0 Climate change indicators Circular material use rate 10.8 11.8 Greenhouse gas emissions intensity of energy consumption 61.7 82.8 Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.3 | | n/a | 3.3 |
| Rule of law (-2.5 to 2.5 best) 0.9 1.0 Climate change indicators Circular material use rate 10.8 11.8 Greenhouse gas emissions intensity of energy consumption 61.7 82.8 Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.3 | Govt. procurement of advanced tech. products | 3.7 | 3.5 |
| Circular material use rate 10.8 11.6 Greenhouse gas emissions intensity of energy consumption 61.7 82.6 Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | Rule of law (-2.5 to 2.5 best) | 0.9 | 1.0 |
| Greenhouse gas emissions intensity of energy consumption 61.7 82.6 Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | Climate change indicators | | |
| Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | Circular material use rate | 10.8 | 11.8 |
| Eco-Innovation Index 65.7 100.0 Demography Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | Greenhouse gas emissions intensity of energy consumption | 61.7 | 82.8 |
| Population size 0.5 447.1 Average annual population growth (%) 0.6 -0.1 | | 65.7 | 100.0 |
| Average annual population growth (%) 0.6 -0.1 | Demography | | |
| | Population size | 0.5 | 447.1 |
| | | 0.6 | -0.1 |
| Population density 1,620 108.8 | Population density | 1,620 | 108.8 |



Performance is measured relative to that of the country in 2016 (=100).

This report provides the Country profile from the 2023 European Innovation Scoreboard for Malta.

Studies and reports