



The Commonwealth

DIGITAL GOVERNANCE ANALYSIS

PAPUA NEW GUINEA

Report Created For:
The Secretary General of The Commonwealth of Nations

PAPUA NEW GUINEA



2024
EDITION



Report Created For:
The Secretary General of The Commonwealth of Nations



www.eforumsd.com

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The background features a dark blue gradient with a series of light blue, wavy, overlapping lines that create a sense of motion and depth, primarily concentrated in the lower half of the page.

1

**Active Mobile
Broadband
Subscriptions**

Active Mobile-Broadband subscriptions

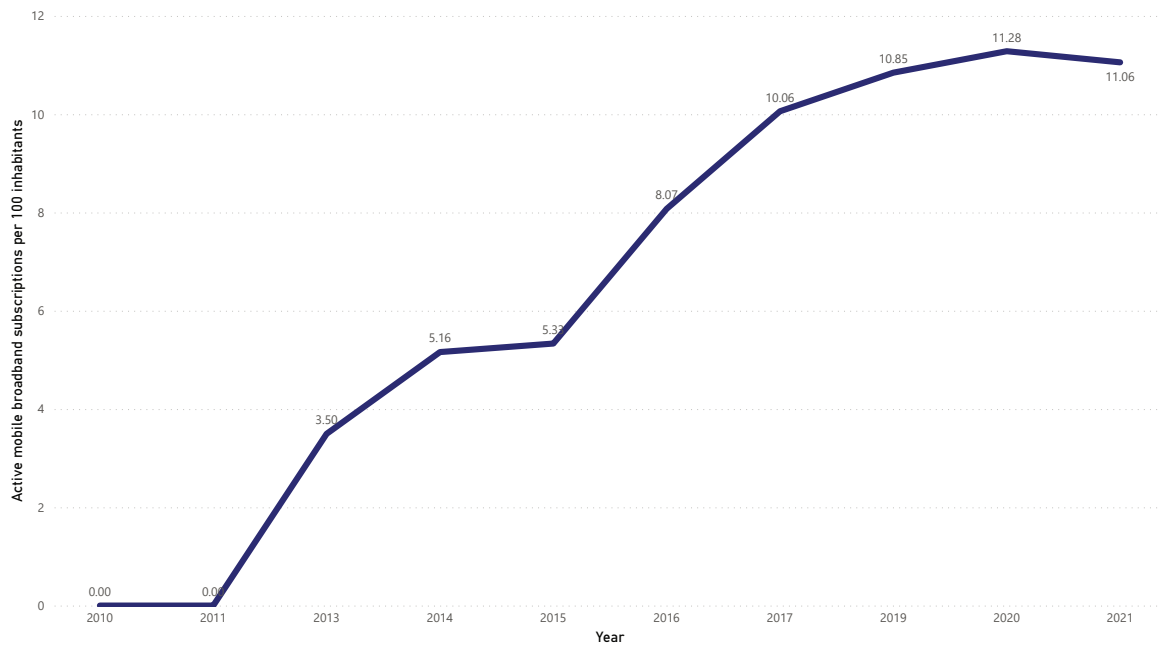
Chart 1.1

Number of active mobile broadband subscriptions per 100 inhabitants in Papua New Guinea in 2021



Chart 1.2

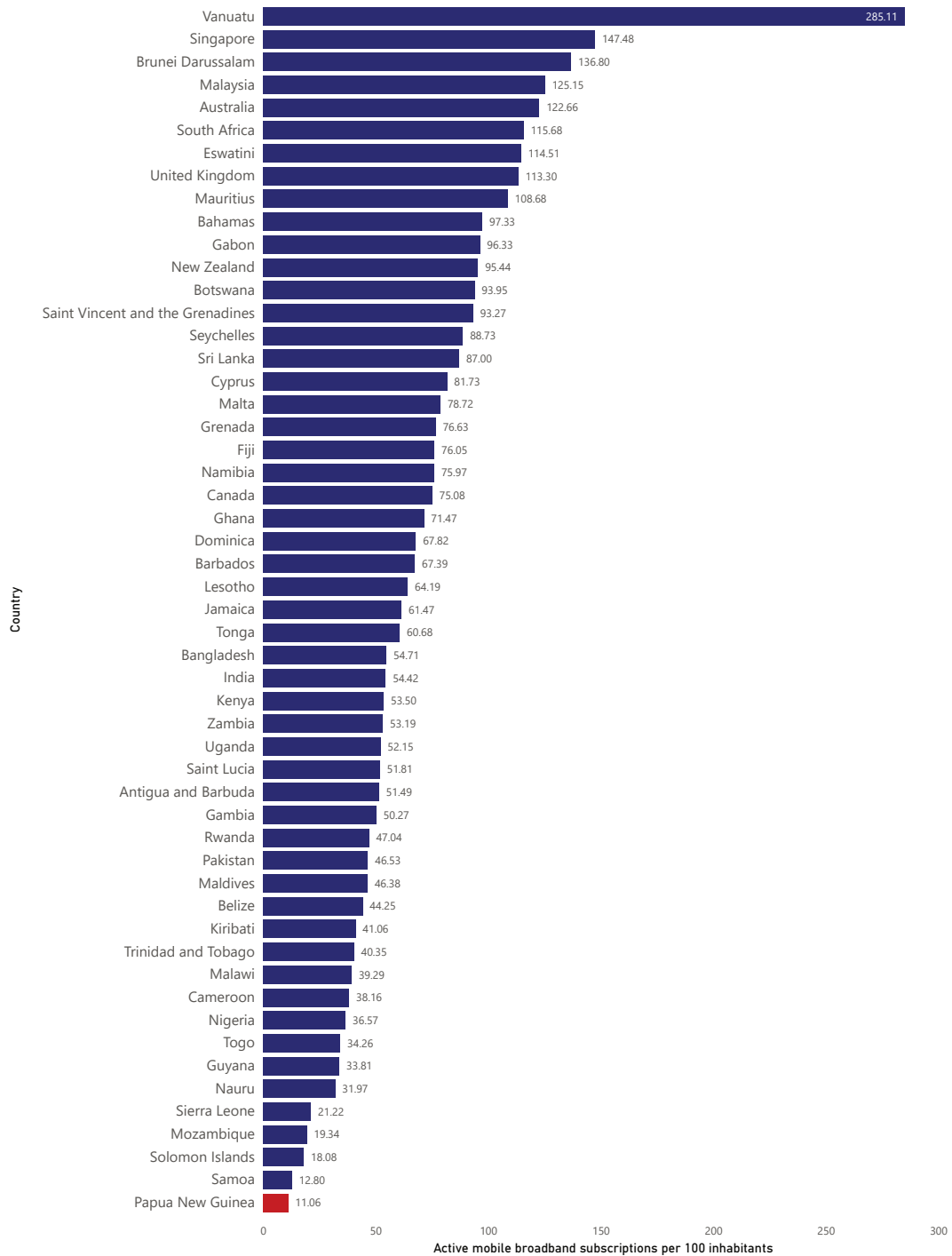
Number of active mobile broadband subscriptions per 100 inhabitants in Papua New Guinea from year 2010 to 2021.



Measure: Ratio

Source: ITU (<https://www.itu.int/en/ITU-D/Statistics/Dashboards/Pages/Digital-Development.aspx>)

Chart 1.3
Number of active mobile broadband subscription per 100 inhabitants of Commonwealth Countries in 2021.



Measure: Ratio
 Source: ITU (<https://www.itu.int/en/ITU-D/Statistics/Dashboards/Pages/Digital-Development.aspx>)

A decorative graphic consisting of numerous thin, light blue wavy lines that flow across the bottom half of the page, creating a sense of motion and digital connectivity.

2

**E-Government
Development
Index**

E-Government Development Index

The E-Government Development Index presents the state of E-Government Development of the United Nations Member States. Along with an assessment of the website development patterns in a country, the E-Government Development index incorporates the access characteristics, such as the infrastructure and educational levels, to reflect how a country is using information technologies to promote access and inclusion of its people.

The EGDI is a composite measure of three important dimensions of e-government

- Provision of online services.
- Telecommunication connectivity .
- Human capacity.

Chart 2.1
EDGI Composition

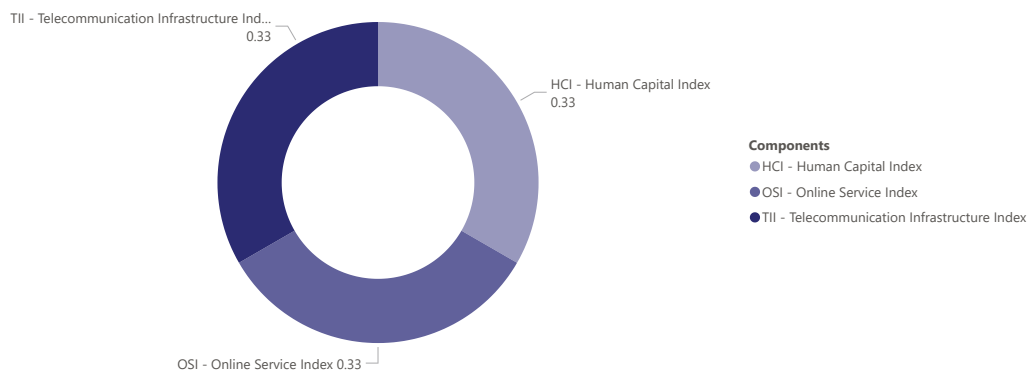
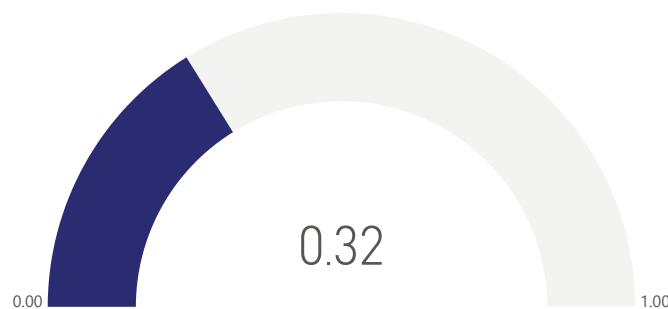


Chart 2.2
E-Government Development Index Score of Papua New Guinea in 2022



Measure: Index

Source: UN Public Administration (<https://publicadministration.un.org/egovkb/Data-Center>)

Chart 2.3
E-government Development Index Score of Commonwealth Countries in 2022

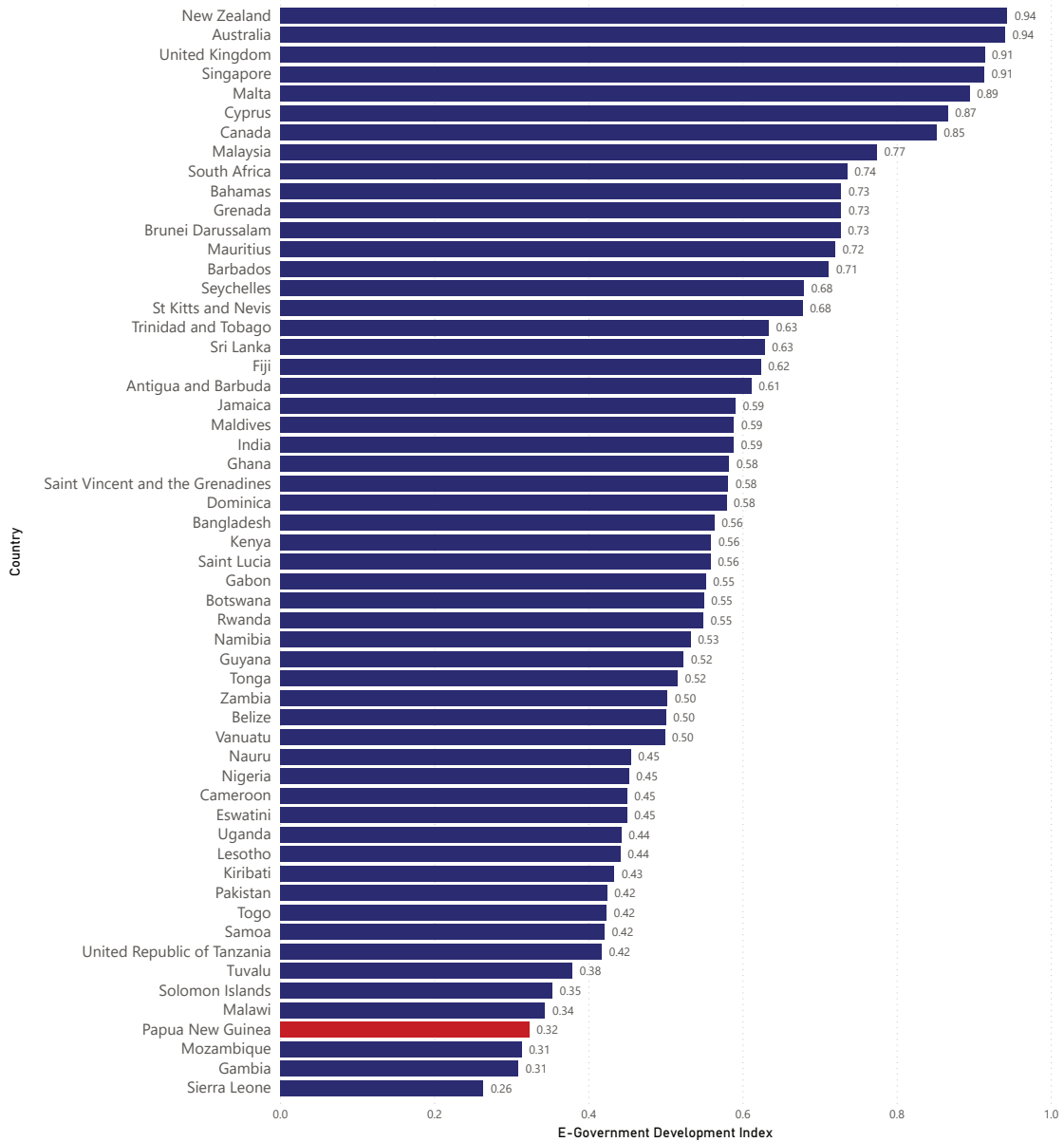
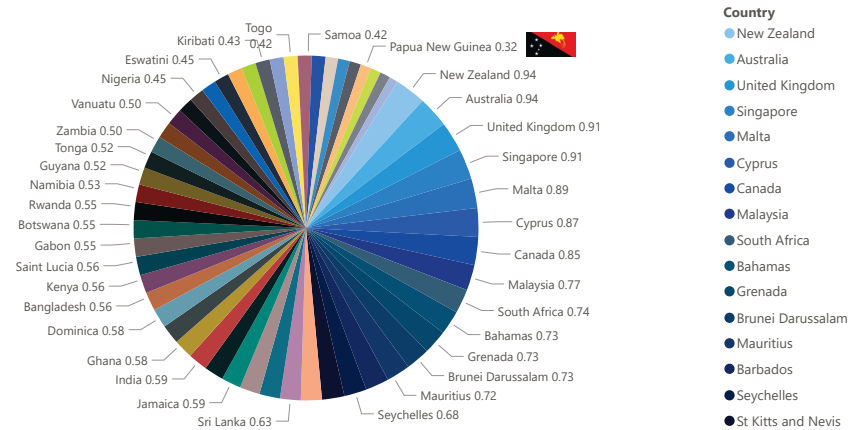


Chart 2.4
Proportion of E - Government Development Index of Commonwealth Countries in 2022



Measure: Index Score
 Source: UN Public Administration (<https://publicadministration.un.org/egovkb/Data-Center>)



3

**Innovation
Capacity
Index**

Innovation Capacity

Chart 3.1
The Innovation Capacity Index of Commonwealth Countries in 2023

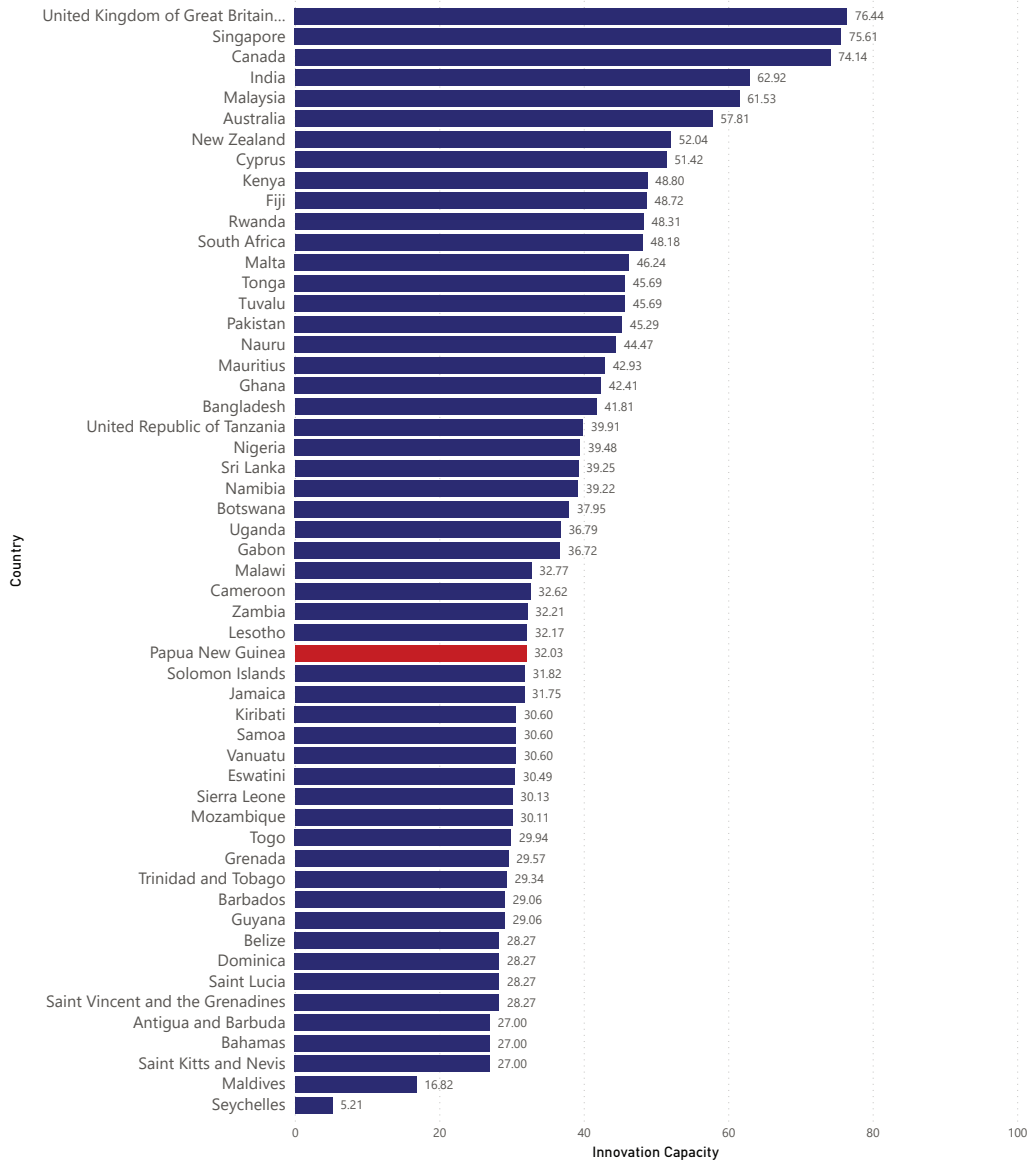
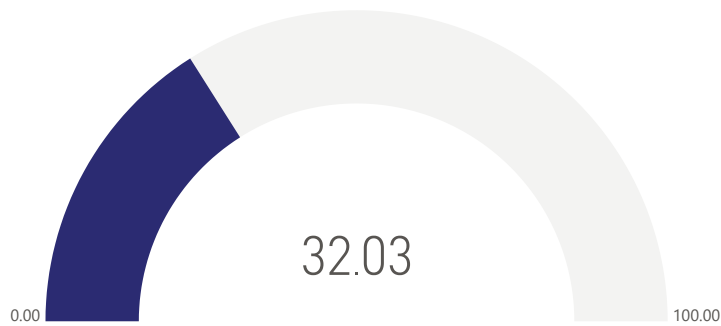


Chart 3.2
The Innovation Capacity Index of Papua new Guinea in 2023



Measure: Index score
Source: Oxford Insights <https://oxfordinsights.com/ai-readiness/ai-readiness-index/>

A decorative graphic consisting of numerous thin, light blue lines that form a series of overlapping, wavy patterns across the bottom half of the page. The lines are more densely packed in some areas, creating a sense of depth and movement.

4

**Online
Service
Index**

Online Service Index (OSI)

The Online Service Index (OSI) of countries are assessed from each country's national website in the native language, including the national portal, e services portal and e-participation portal, as well as the websites of the related ministries of education, labour, social services, health, finance and environment as applicable. The outcome is an enhanced quantitative Survey with a wider range of point distributions reflecting differences in levels of e-government development among countries.

Chart 4.1
OSI index score of Papua New Guinea in 2022.

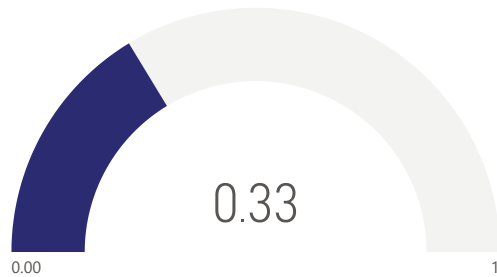
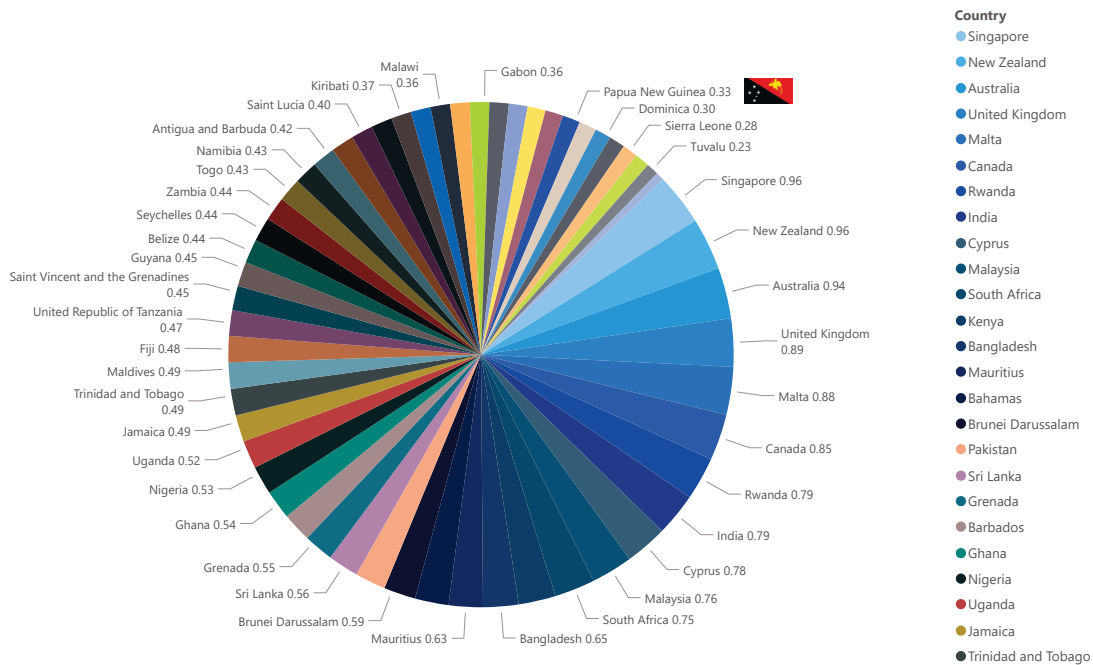
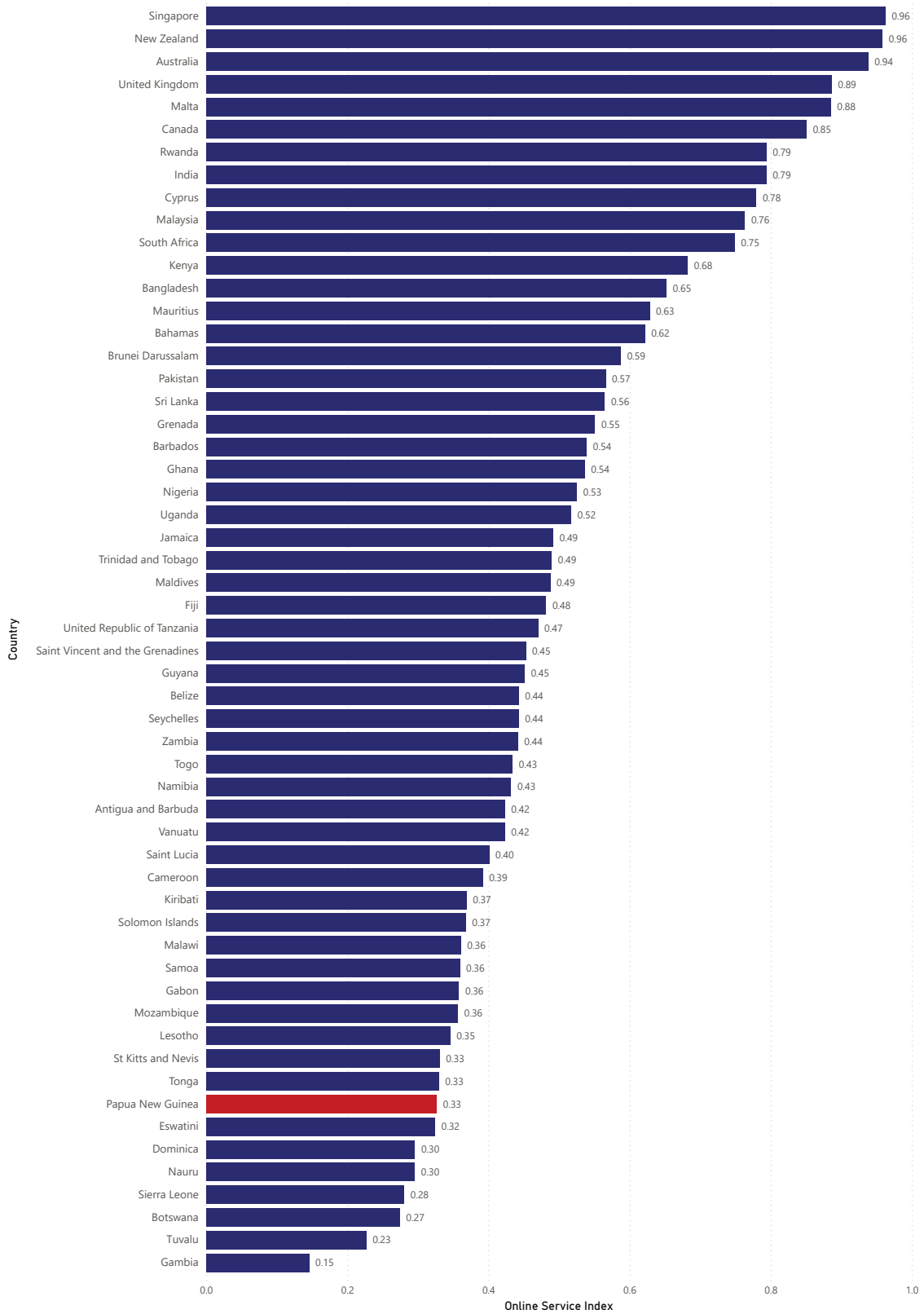


Chart 4.2
Online Service Index of Commonwealth Countries in 2022



Measure: Index Score
Source: UN Public Administration (<https://publicadministration.un.org/egovkb/Data-Center>)

Chart 4.3
Online Service Index of Commonwealth
Countries in 2022



Measure: Index Score

Source: UN Public Administration (<https://publicadministration.un.org/egovkb/Data-Center>)

The bottom half of the page features a series of thin, light blue wavy lines that create a sense of motion and depth. These lines are layered and curve across the width of the page, starting from the left and right edges and meeting in the center.

5 | Open Data

Open Data

Chart 5.1
Index score of Open data and Government effectiveness in 2023.

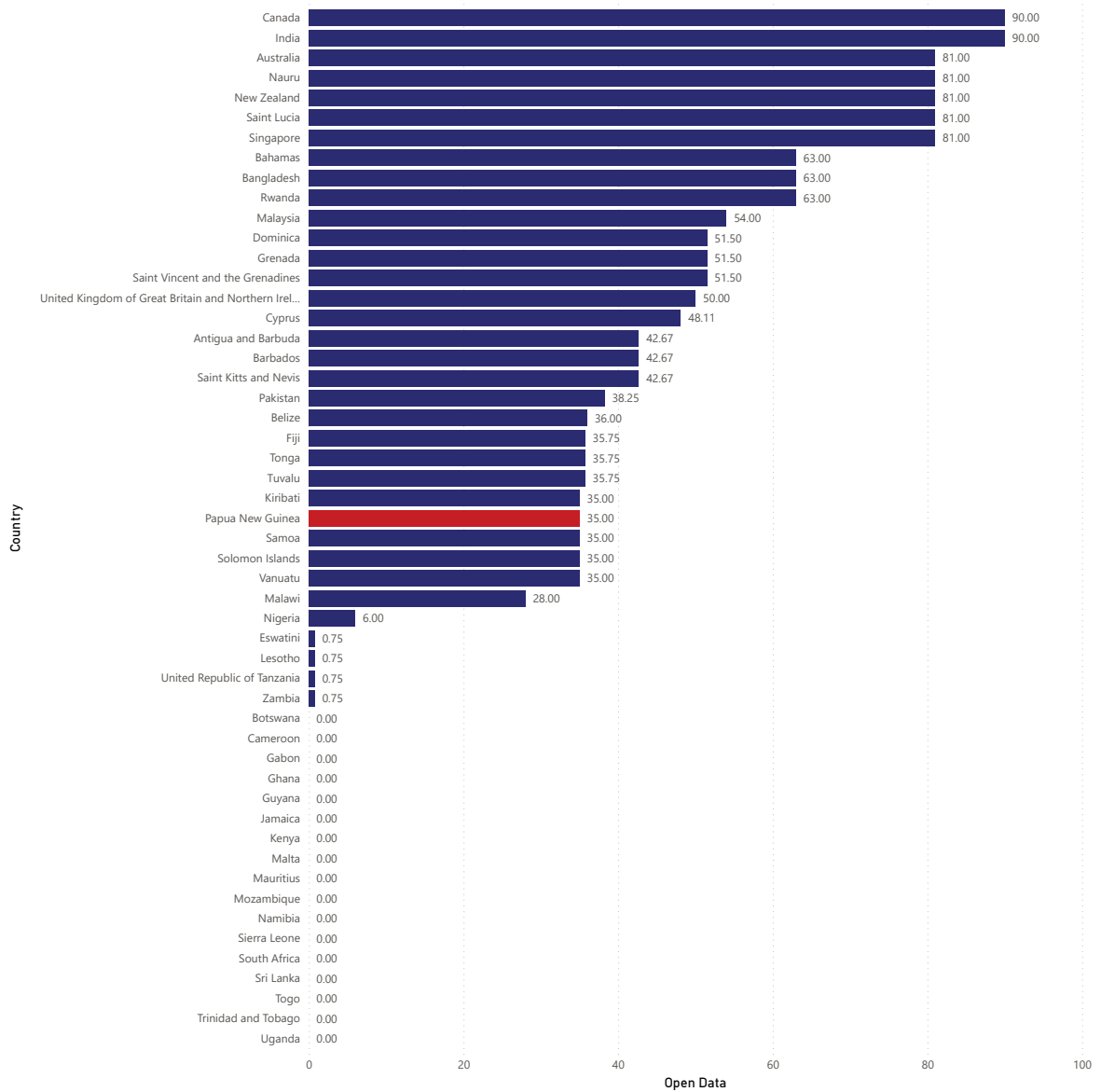
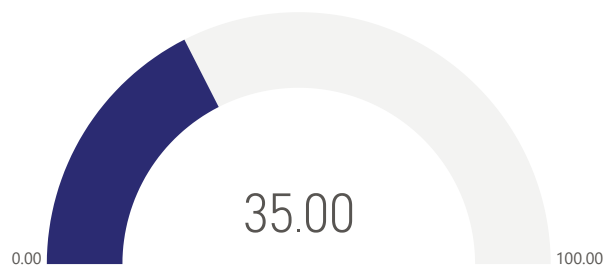


Chart 5.2
Index score of Open data and Government effectiveness of Papua New Guinea in 2023.



Measure: Index score
Source: Oxford Insights <https://oxfordinsights.com/ai-readiness/ai-readiness-index/>



6

**Telecommunication
Infrastructure
Index**

Telecommunication Infrastructure Index (TII)

The Telecommunication Infrastructure Index (TII) is an arithmetic average composite of five indicators:

- (i) Estimated internet users per 100 inhabitants
- (ii) Number of main fixed telephone lines per 100 inhabitants
- (iii) Number of mobile subscribers per 100 inhabitants
- (iv) Number of wireless broadband subscriptions per 100 inhabitants
- (v) Number of fixed broadband subscriptions per 100 inhabitants.

Chart 6.1
Telecommunication Index Score of Papua New Guinea in 2022.

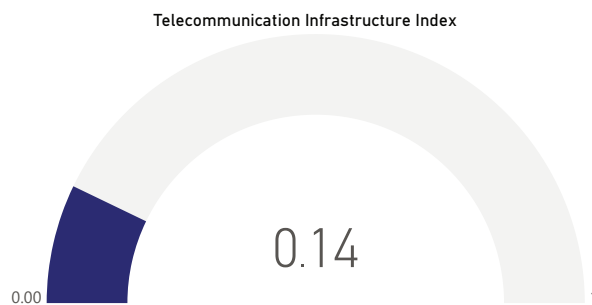
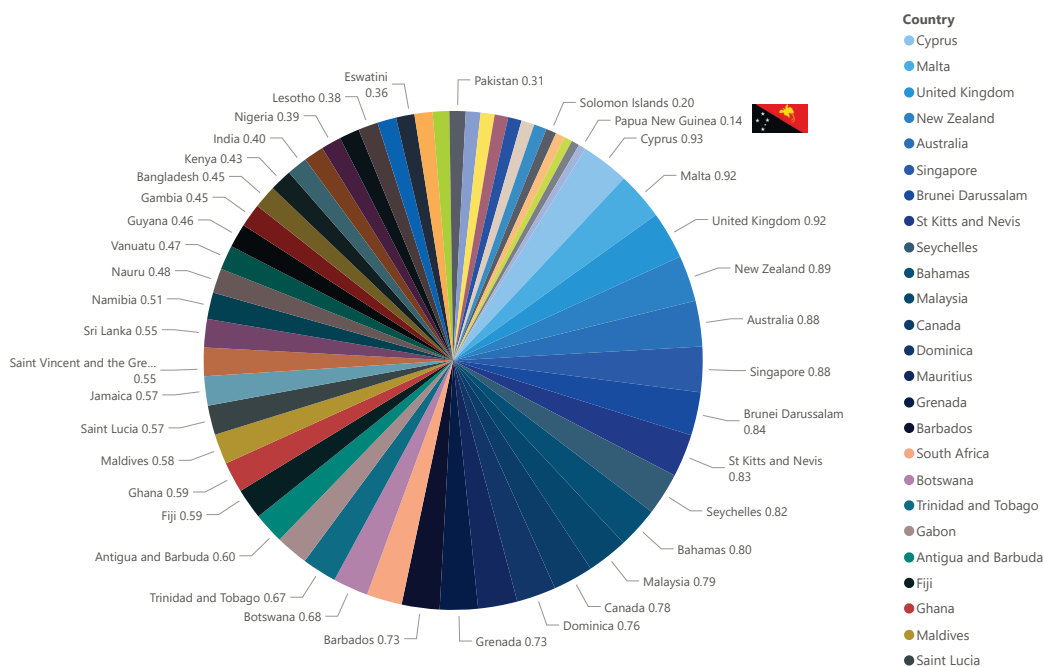


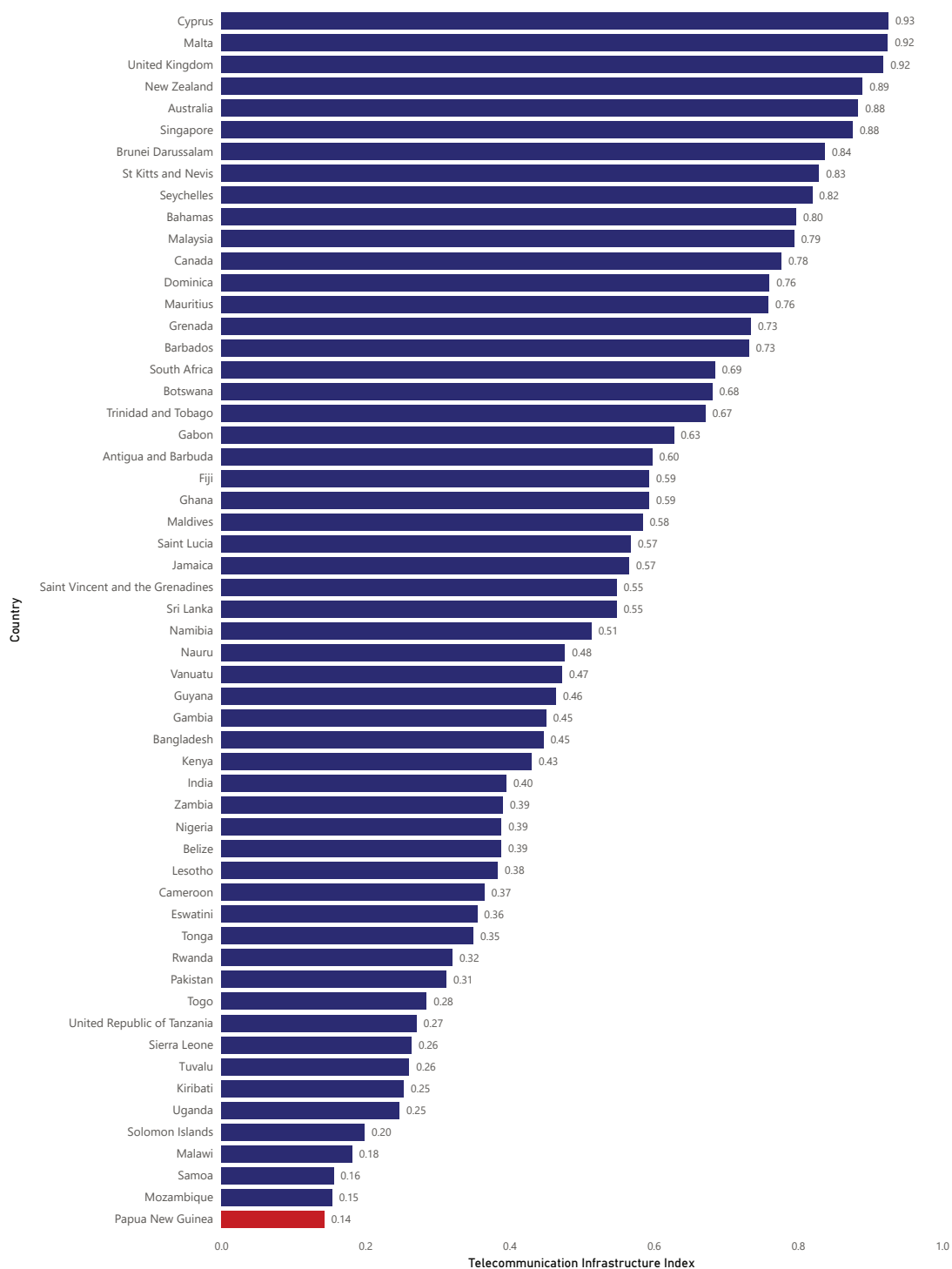
Chart 7.2
Proportion of Telecommunication Infrastructure Index of Commonwealth Countries in 2022



Measure: Index Score

Source: UN Public Administration (<https://publicadministration.un.org/egovkb/Data-Center>)

Chart 6.3
Telecommunication Infrastructure Index of Commonwealth
Countries in 2022



Measure: Index Score
Source: UN Public Administration (<https://publicadministration.un.org/egovkb/Data-Center>)

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7

**Human
Capital
Index**

Human Capital Index

The Human Capital Index (HCI) consists of four components:

- (i) Adult literacy rate
- (ii) The combined primary, secondary and tertiary gross enrolment ratio
- (iii) Expected years of schooling
- (iv) Average years of schooling.

Chart 7.1
Human Capital Index score of Papua New Guinea in 2022.

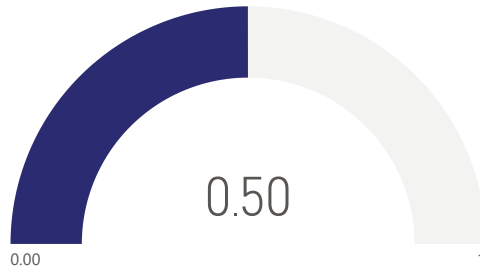
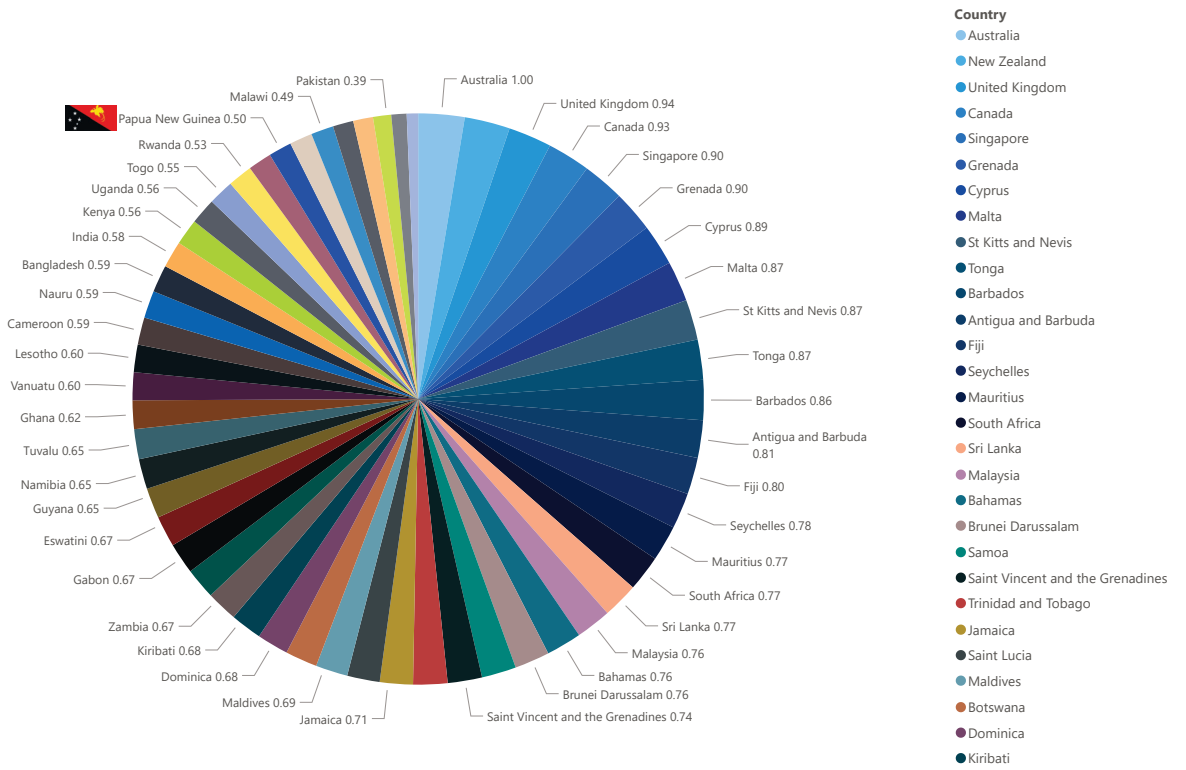
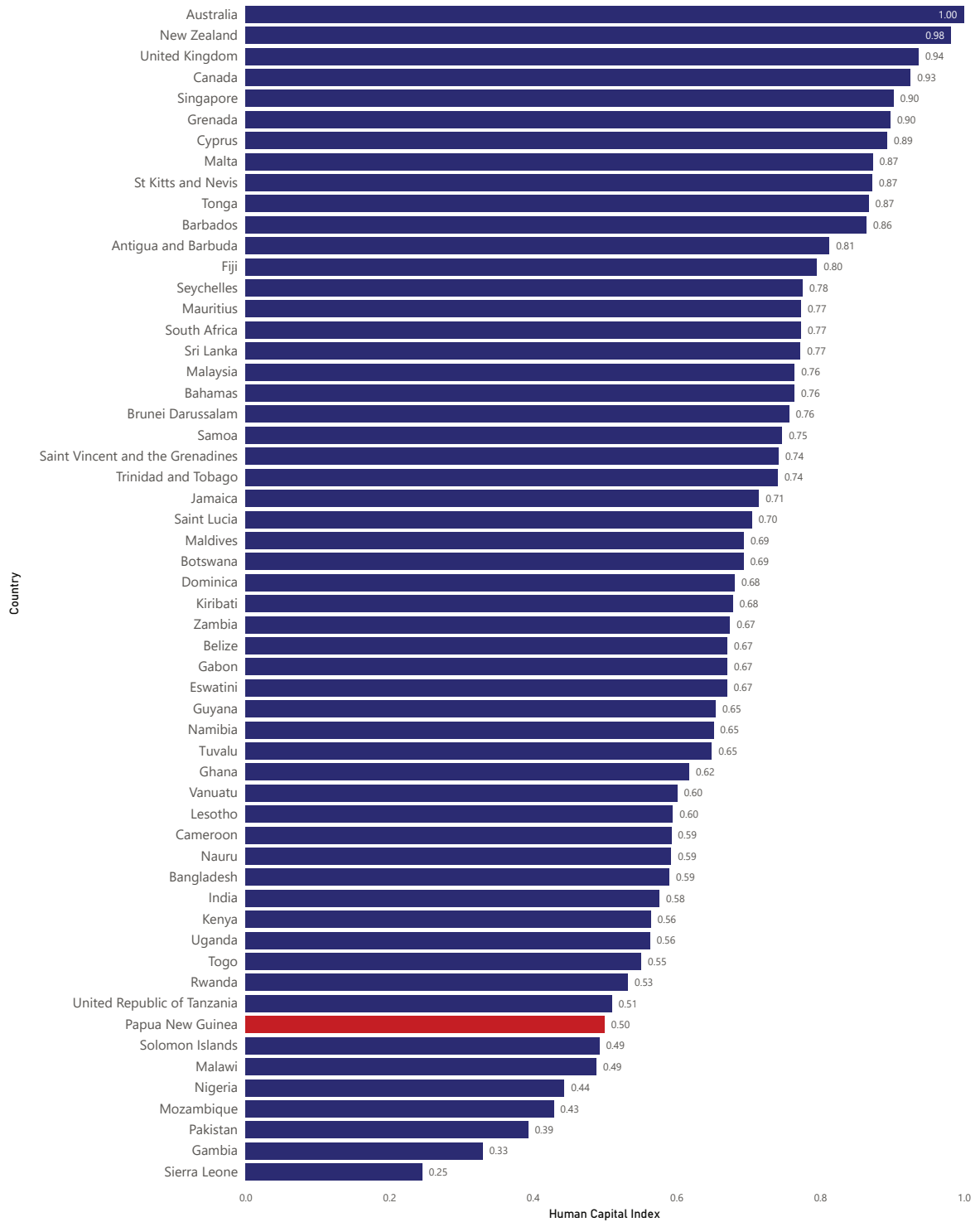


Chart 7.2
Proportion of Human Capital Index of Commonwealth in 2022



Measure: Index Score
Source: UN Public Administration (<https://publicadministration.un.org/egovkb/Data-Center/>)

Chart 7.3
The Human Capital Index of Commonwealth Countries in 2022



Measure: Index Score
 Source: UN Public Administration (<https://publicadministration.un.org/egovkb/Data-Center>)



8

**Global
Cybersecurity
Index**

Global Cybersecurity Index

The Global Cybersecurity Index (GCI) is a trusted reference that measures the commitment of countries to cybersecurity at a global level – to raise awareness of the importance and different dimensions of the issue.

Chart 8.1
Cybersecurity Index of Papua New Guinea in 2022

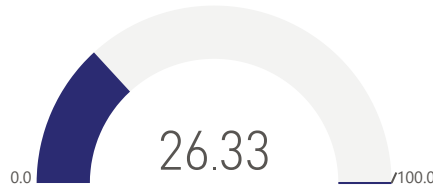
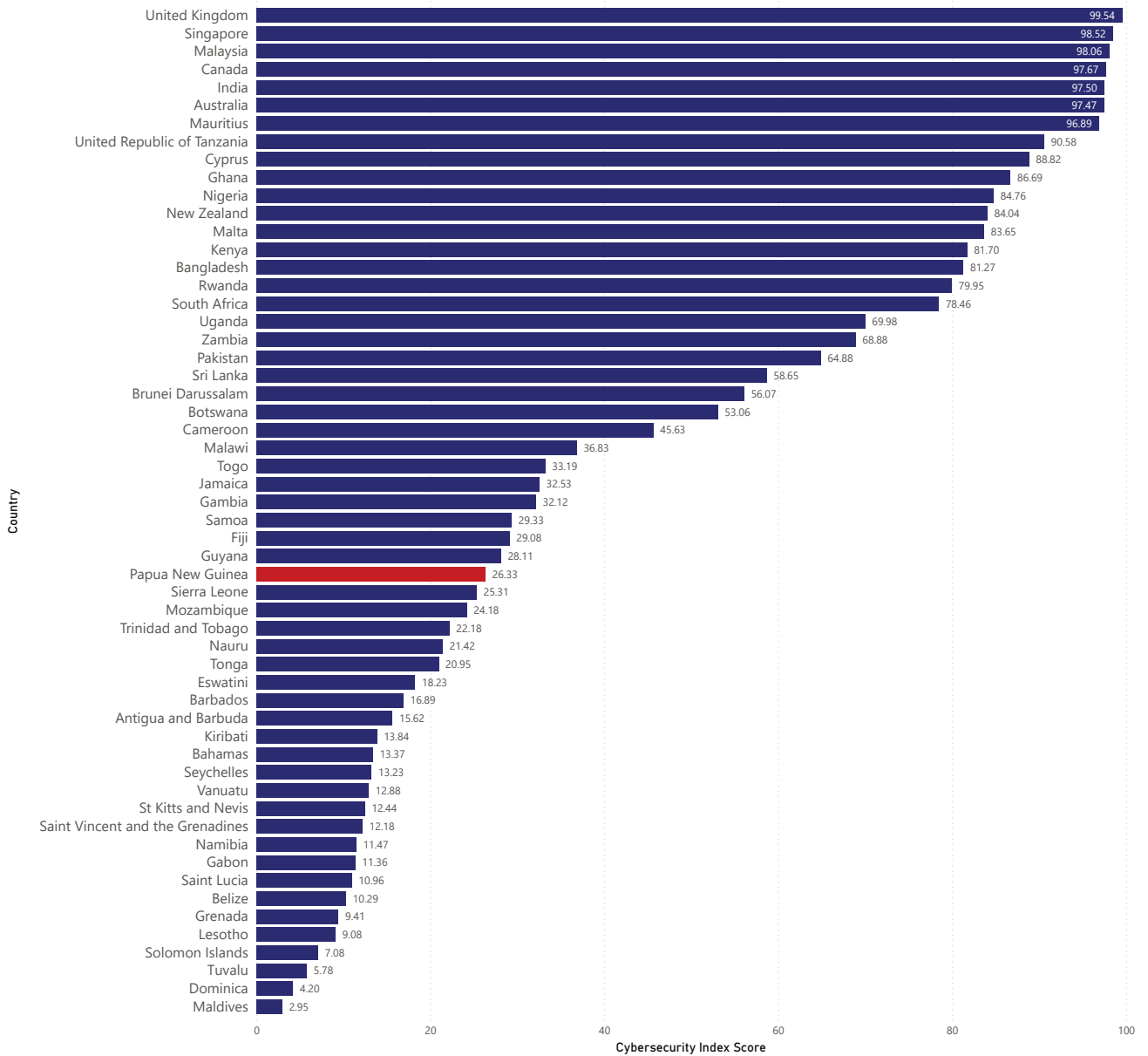


Chart 8.2
The Cybersecurity Index of Commonwealth Countries in 2022.



Measure: Index score
Source: ITU (<https://www.itu.int/en/ITU-D/Cybersecurity/Pages/global-cybersecurity-index.aspx>)

Chart 8.1
Global ranking of the Commonwealth Countries on the
Cybersecurity Index score in 2022

| Country | Global Cybersecurity Rank |
|--|---------------------------|
| United Kingdom | 2 |
| Singapore | 4 |
| Malaysia | 5 |
| Canada | 8 |
| India | 10 |
| Australia | 12 |
| Mauritius | 17 |
| United Republic of Tanzania | 37 |
| Cyprus | 41 |
| Ghana | 43 |
| Nigeria | 47 |
| New Zealand | 48 |
| Malta | 49 |
| Kenya | 51 |
| Bangladesh | 53 |
| Rwanda | 57 |
| South Africa | 59 |
| Uganda | 72 |
| Zambia | 73 |
| Pakistan | 79 |
| Sri Lanka | 83 |
| Brunei Darussalam | 85 |
| Botswana | 88 |
| Cameroon | 93 |
| Malawi | 97 |
| Togo | 105 |
| Jamaica | 106 |
| Gambia | 107 |
| Samoa | 111 |
| Fiji | 112 |
| Guyana | 114 |
|  Papua New Guinea | 118 |
| Sierra Leone | 121 |
| Mozambique | 123 |
| Trinidad and Tobago | 125 |
| Nauru | 127 |
| Tonga | 128 |
| Eswatini | 135 |
| Barbados | 139 |
| Antigua and Barbuda | 142 |
| Kiribati | 145 |
| Bahamas | 147 |
| Seychelles | 149 |
| Vanuatu | 152 |
| St Kitts and Nevis | 153 |
| Saint Vincent and the Grenadines | 154 |
| Namibia | 155 |
| Gabon | 157 |
| Saint Lucia | 158 |
| Belize | 159 |
| Grenada | 163 |
| Lesotho | 164 |
| Solomon Islands | 166 |
| Tuvalu | 168 |
| Dominica | 174 |
| Maldives | 177 |

Measure: Index Score

Source: ITU (<https://www.itu.int/en/ITU-D/Cybersecurity/Pages/global-cybersecurity-index.aspx>)



9

**Foundational
IT
Infrastructure**

Foundational IT Infrastructure

Chart 9.1
Index score on Foundational IT Infrastructure by commonwealth countries in 2023

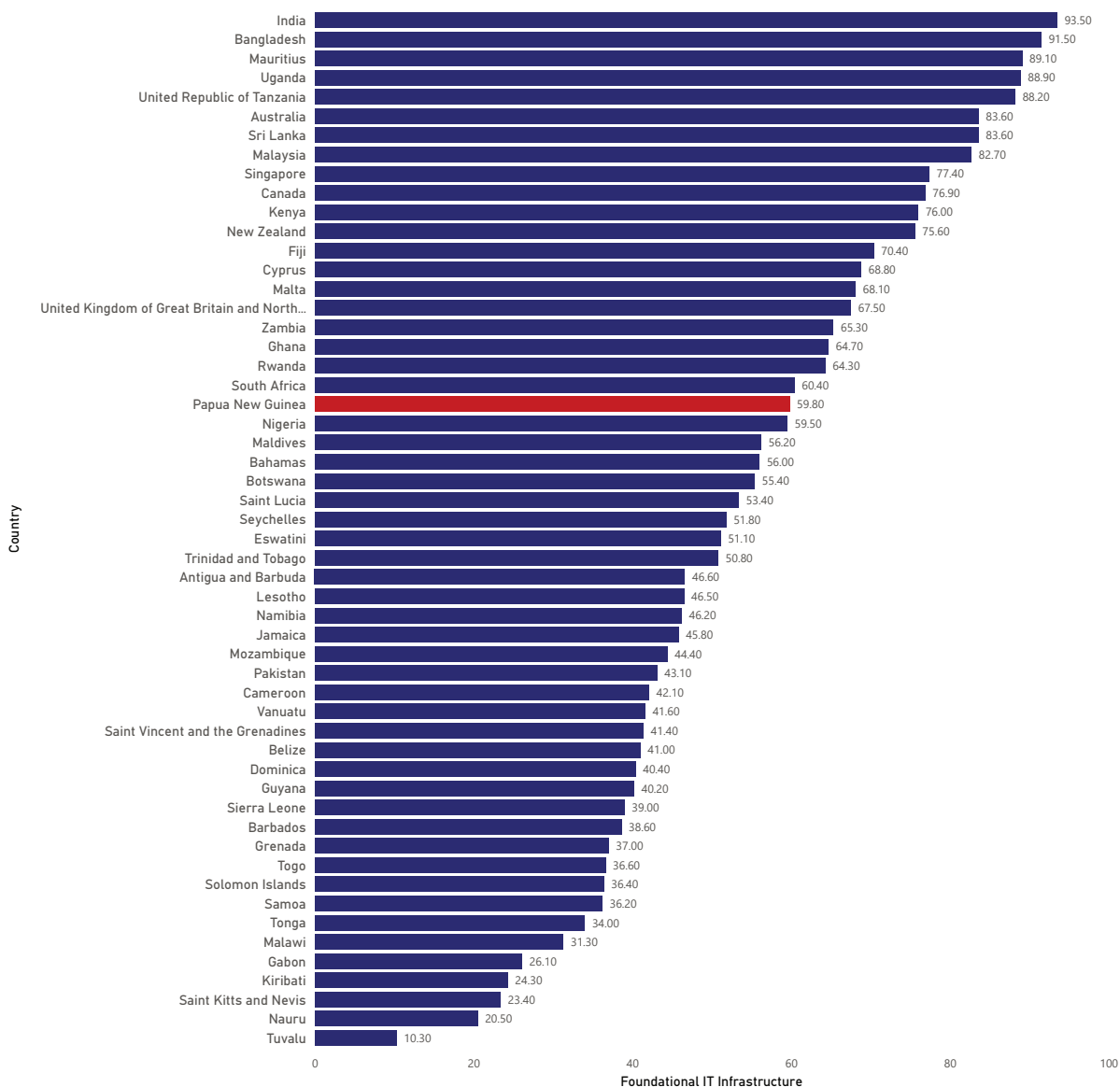
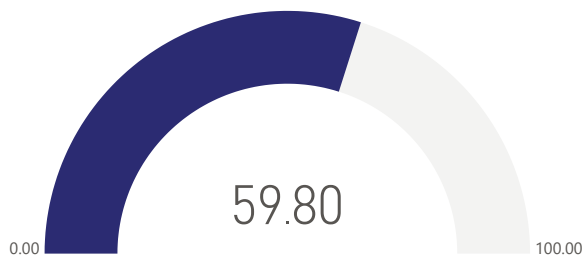


Chart 9.2
Index score on Foundational IT Infrastructure of Papua New Guinea in 2023



Measure: Index score
Source: Oxford Insights <https://oxfordinsights.com/ai-readiness/ai-readiness-index/>

The background of the page is a solid dark blue color. In the lower half, there are several overlapping, wavy lines in a lighter shade of blue, creating a sense of motion and depth. The lines are thin and densely packed, forming a complex, organic pattern that flows across the bottom of the page.

10

**Fixed
Broadband
Subscriptions**

Fixed Broadband Subscriptions

Chart 10.1
Fixed broadband subscriptions per 100 inhabitants of Papua New Guinea from 2010 to most recently available data.

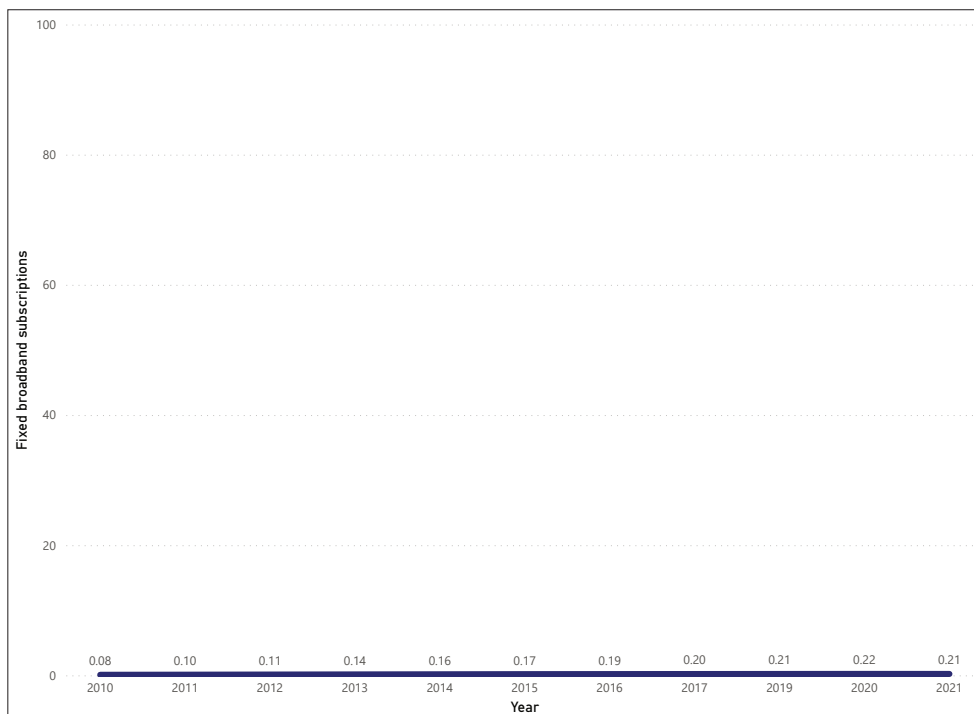


Chart 10.2

**Fixed
broadband
subscriptions
per 100
inhabitants of
Papua New
Guinea in
2021**



Measure: Ratio
Source: ITU (<https://www.itu.int/en/ITU-D/Statistics/Dashboards/Pages/Digital-Development.aspx>)

Chart 10.3

Fixed broadband subscriptions per 100 inhabitants of Commonwealth Countries in 2021

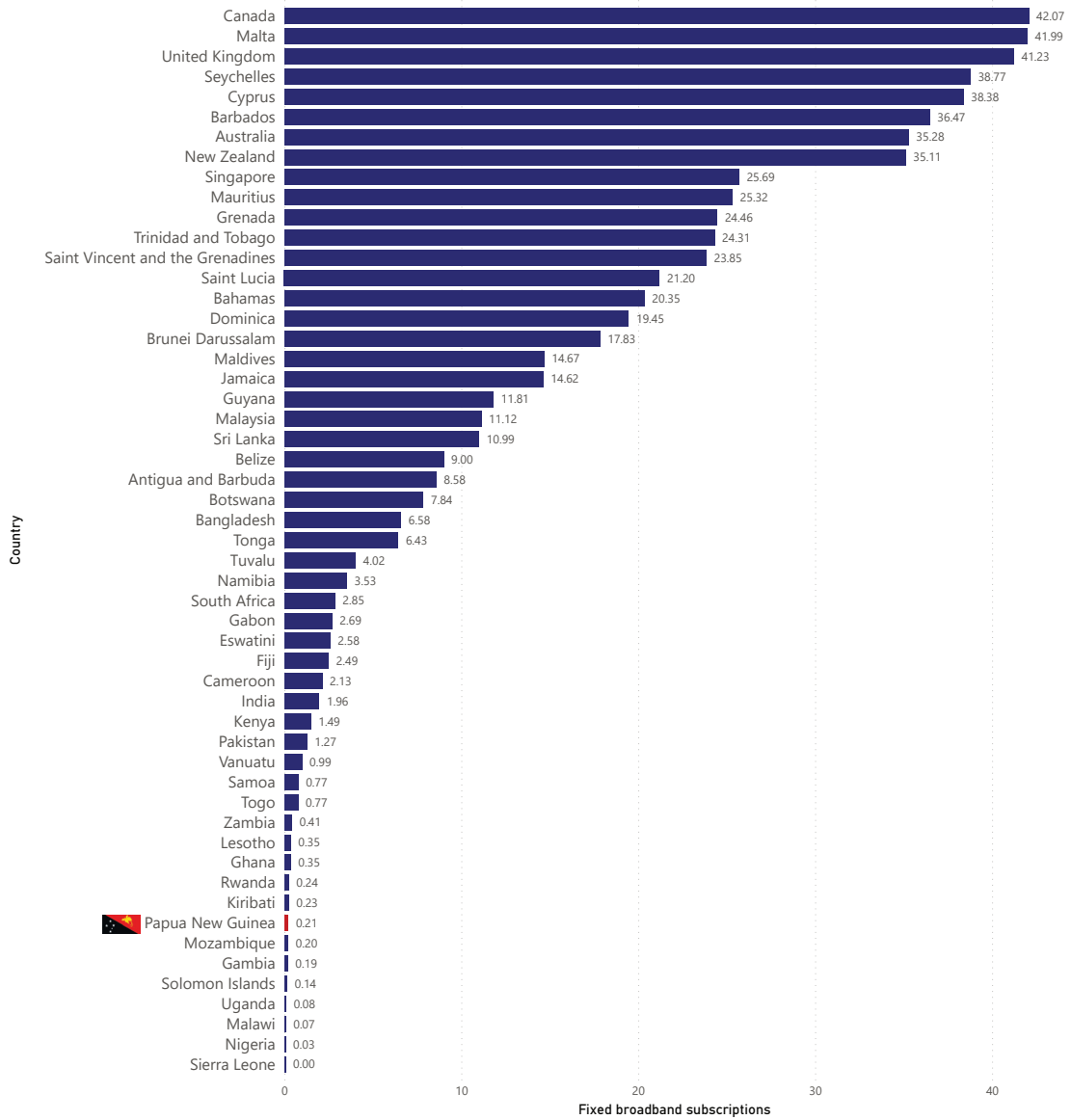
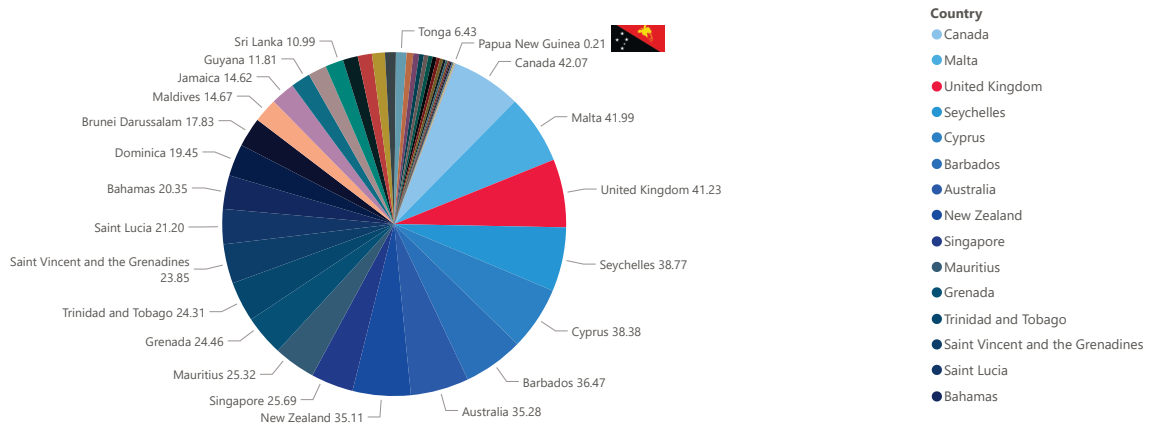


Chart 10.4

Proportion of Fixed broadband subscriptions per 100 inhabitants of Commonwealth Countries in 2021



Measure: Ratio
 Source: ITU (<https://www.itu.int/en/ITU-D/Statistics/Dashboards/Pages/Digital-Development.aspx>)

11

E-Participation
Index



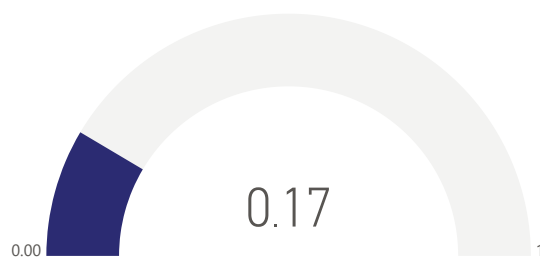
E-Participation Index (EPI)

E-Participation Index (EPI) extends the dimension of the Survey by focusing on the use of online services to facilitate provision of information by governments to citizens ("e-information sharing"), interaction with stakeholders ("e-consultation") and engagement in decision-making processes ("e-decision-making").

E-Participation Index (EPI) - Framework

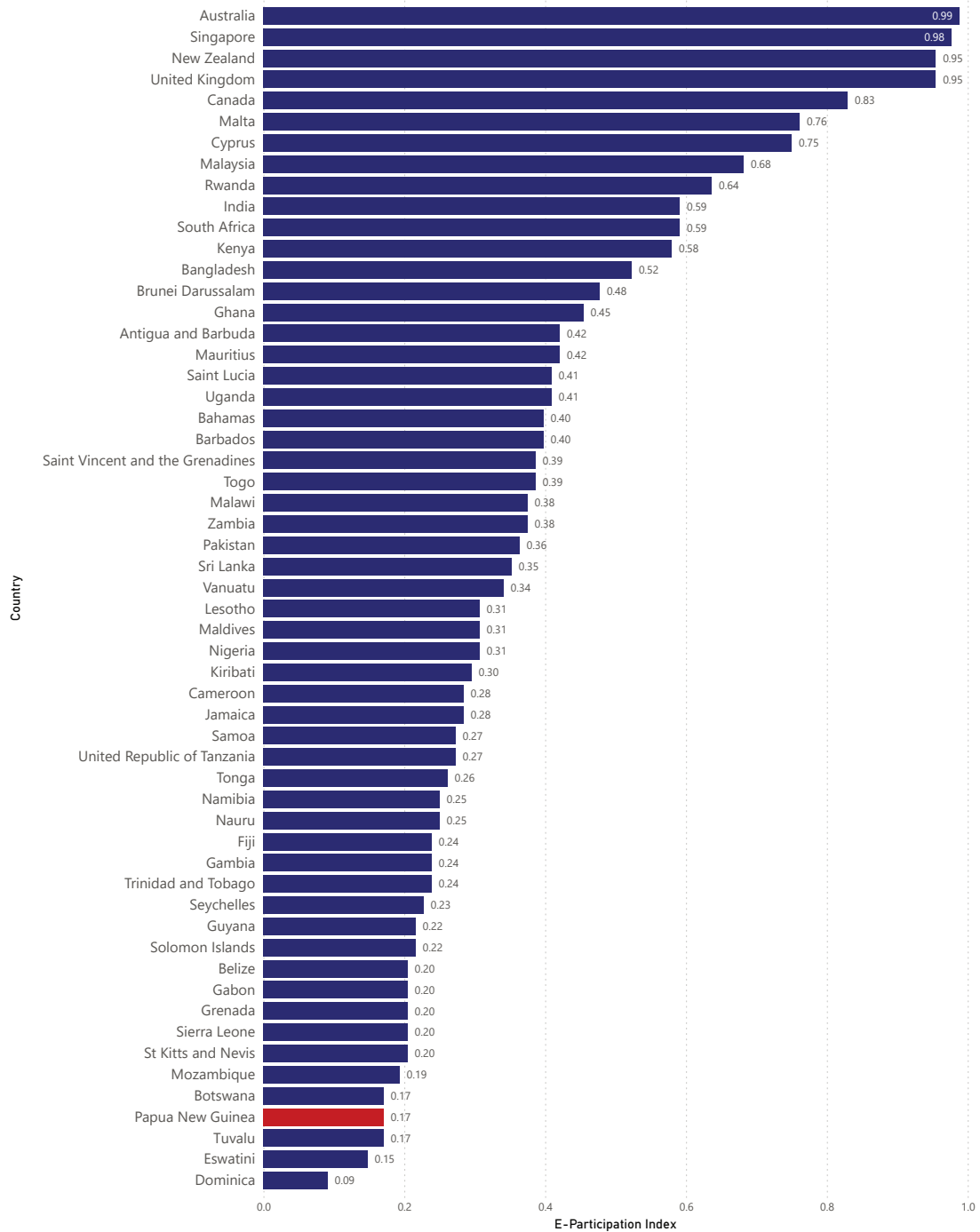


Chart 11.1
EPI index score of Papua New Guinea in 2022



Measure: Index Score
Source: UN Public Administration (<https://publicadministration.un.org/egovkb/Data-Center>)

Chart 11.2
The E-Participation Index of Commonwealth
Countries in 2022



Measure: Index Score

Source: UN Public Administration (<https://publicadministration.un.org/egovkb/Data-Center>)

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12 | **Digital
Capacity**

Digital Capacity

Digital Capacity of a country is determined by the following factors-

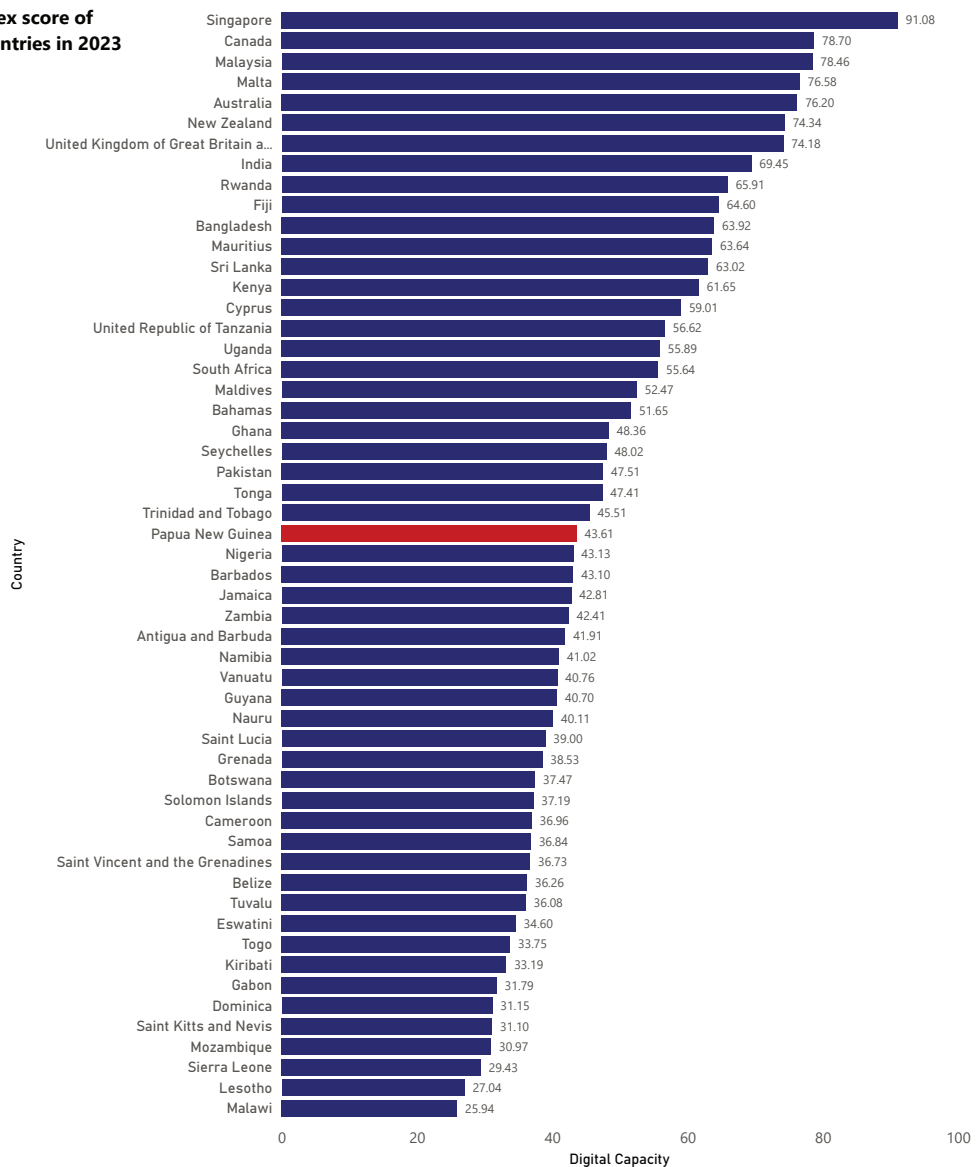
- Online services
- Foundational IT Infrastructure
- Government promotion of investment in emerging technologies.

Chart 12.1

Digital Capacity Index Score of Papua New Guinea in 2023



Chart 12.2
Digital capacity index score of commonwealth countries in 2023

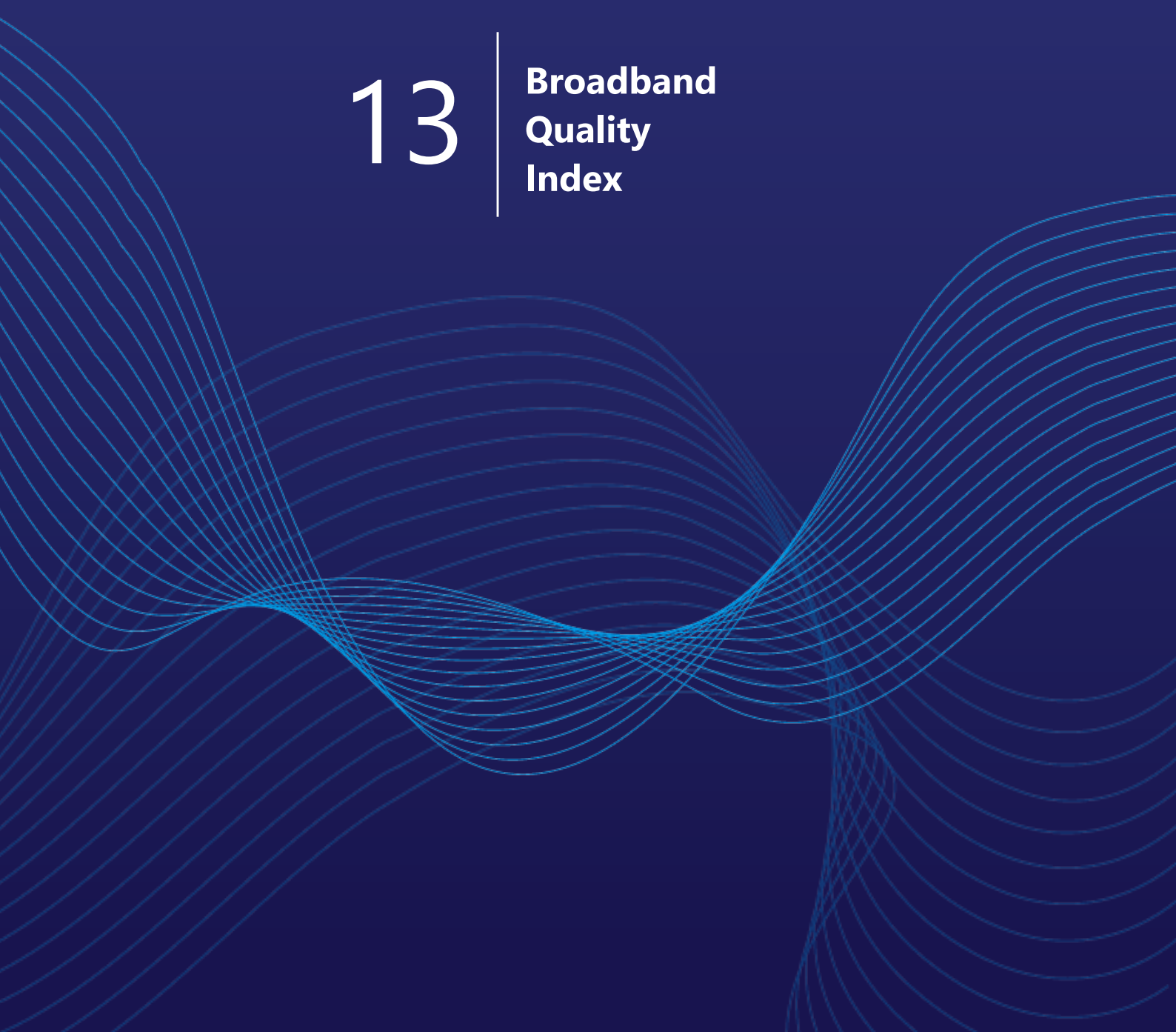


Measure: Index score

Source: Oxford Insights <https://oxfordinsights.com/ai-readiness/ai-readiness-index/>

13

**Broadband
Quality
Index**



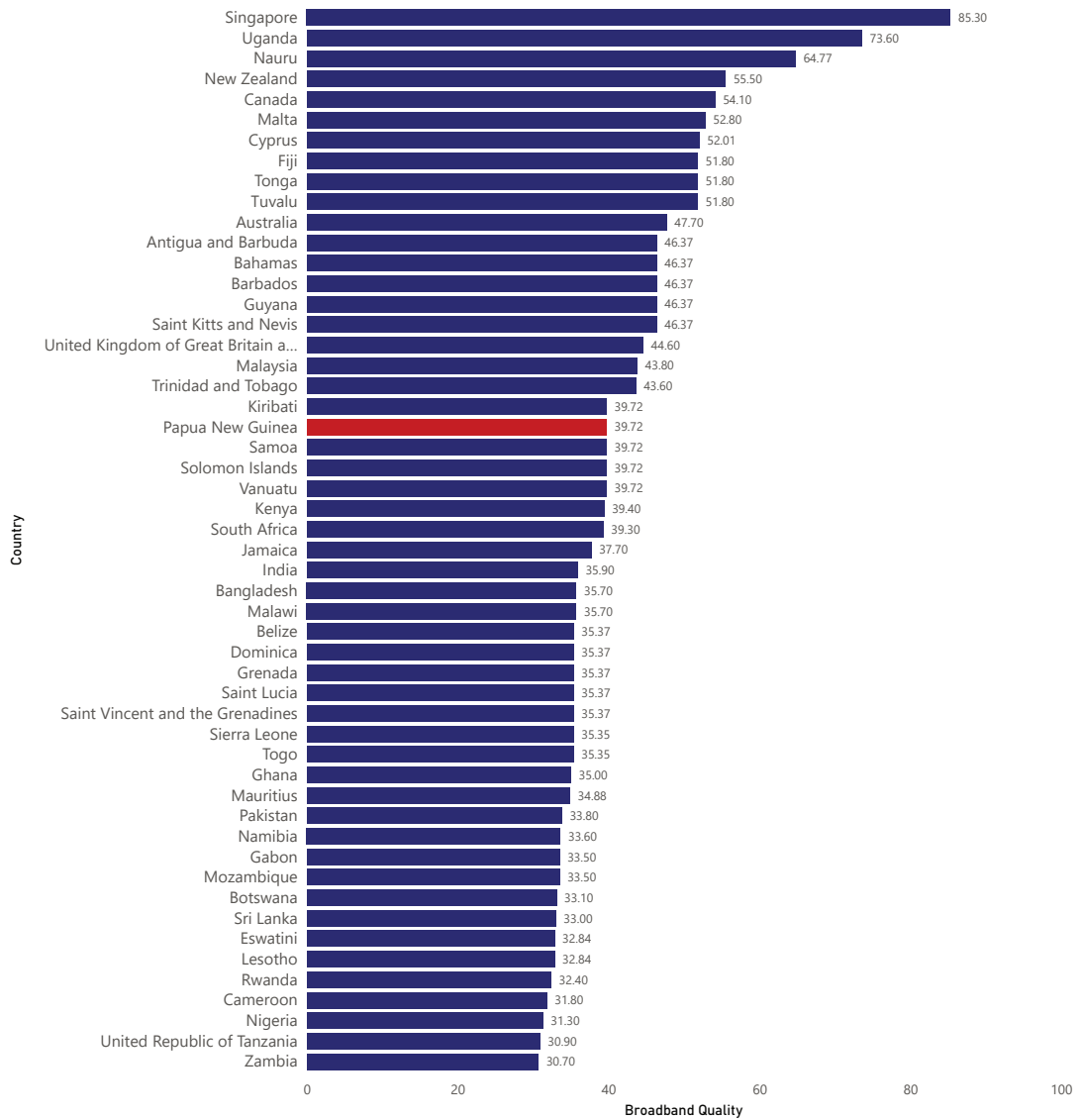
Broadband Quality

Chart 13.1

**Broadband
Quality Index
Score of
Papua New
Guinea in
2023**



Chart 13.2
Index score of broadband quality by Commonwealth countries in 2023.



Measure: Index score

Source: Oxford Insights <https://oxfordinsights.com/ai-readiness/ai-readiness-index/>

14

**Adoption of
Emerging
Technologies**



Adoption of Emerging Technologies

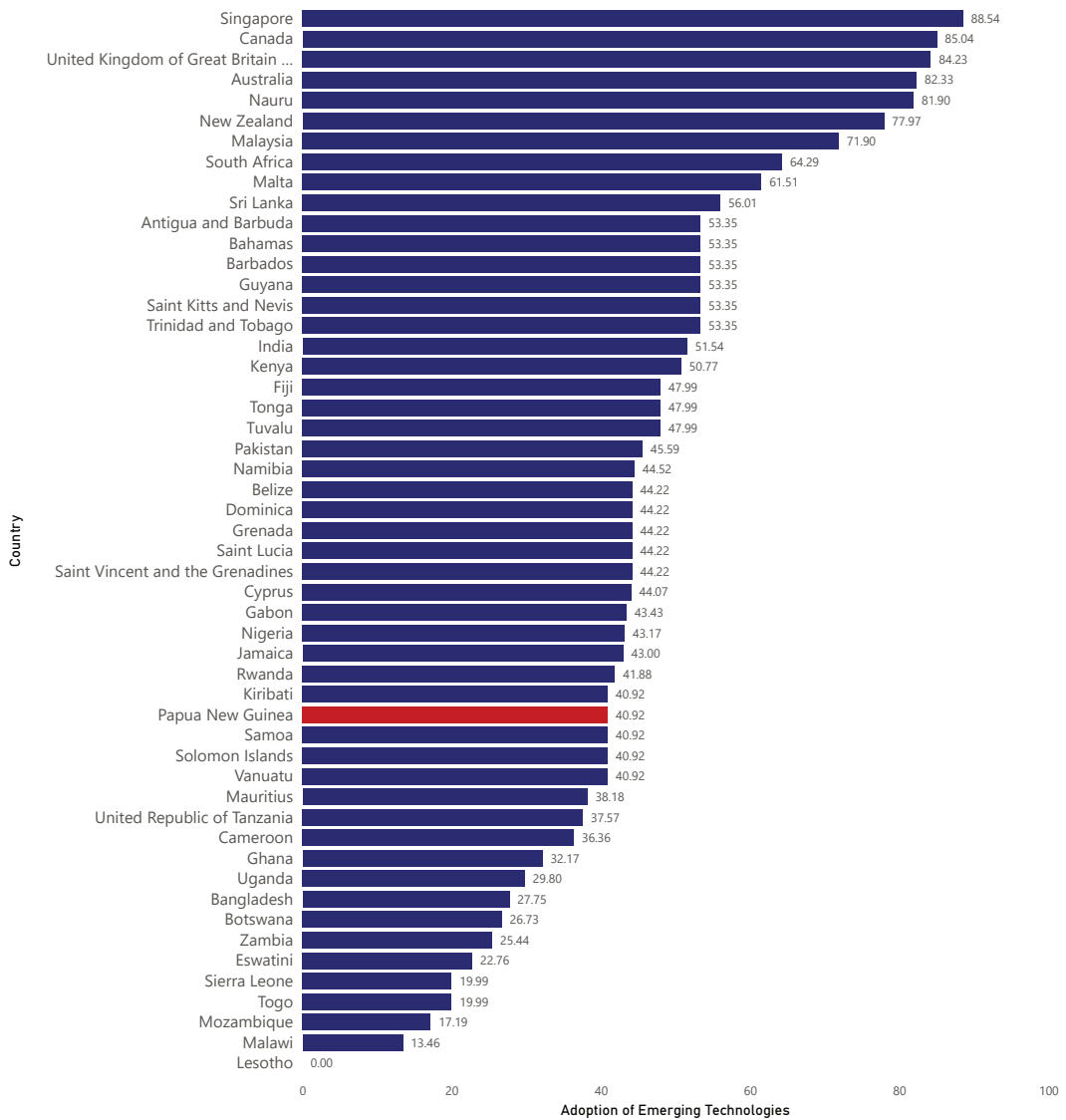
Chart 14.1

Adoption of Emerging Technologies Index Score of Papua New Guinea in 2023



Chart 14.2

Index score on adoption of emerging technologies in commonwealth countries in 2023.



Measure: Index score

Source: Oxford Insights <https://oxfordinsights.com/ai-readiness/ai-readiness-index/>



15






















































Cloud
Providers



Cloud Providers

Chart 15.1
Commonwealth countries in
2022 that

- Are Cloud Providers 
- Not Cloud Providers 

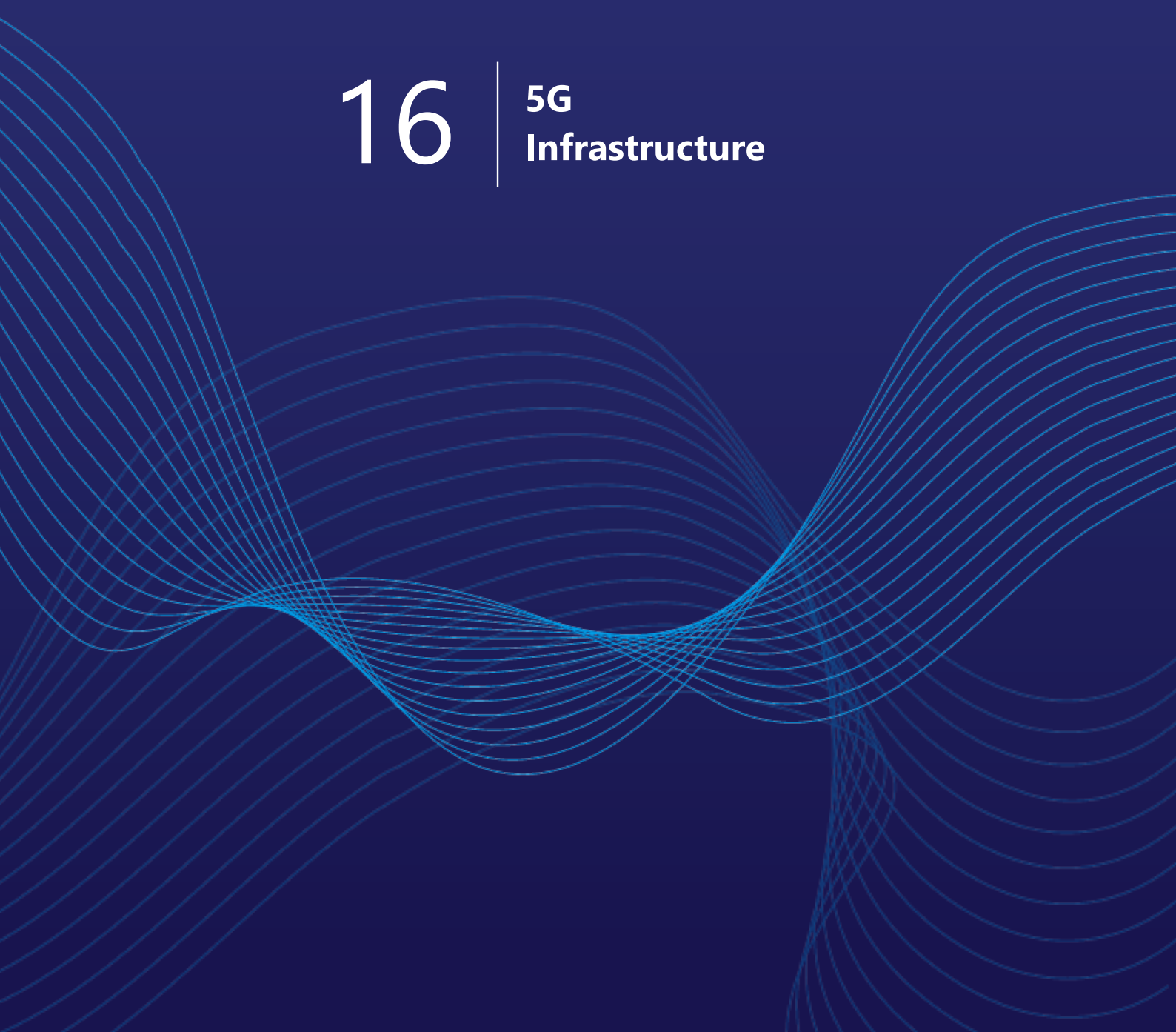
| Country | Cloud Providers |
|--|--|
| Antigua and Barbuda |  |
| Australia |  |
| Bahamas |  |
| Bangladesh |  |
| Barbados |  |
| Belize |  |
| Botswana |  |
| Brunei Darussalam |  |
| Cameroon |  |
| Canada |  |
| Cyprus |  |
| Eswatini |  |
| Fiji |  |
| Gabon |  |
| Gambia |  |
| Ghana |  |
| Grenada |  |
| Guyana |  |
| India |  |
| Jamaica |  |
| Kenya |  |
| Kiribati |  |
| Lesotho |  |
| Malawi |  |
| Malaysia |  |
| Maldives |  |
| Malta |  |
| Mauritius |  |
| Mozambique |  |
| Namibia |  |
| New Zealand |  |
| Nigeria |  |
| Pakistan |  |
|  Papua New Guinea |  |
| Rwanda |  |
| Saint Lucia |  |
| Saint Vincent and the Grenadines |  |
| Samoa |  |
| Seychelles |  |
| Sierra Leone |  |
| Singapore |  |
| Solomon Islands |  |
| South Africa |  |
| Sri Lanka |  |
| Togo |  |
| Tonga |  |
| Trinidad and Tobago |  |
| Uganda |  |
| United Kingdom |  |
| United Republic of Tanzania |  |
| Vanuatu |  |
| Zambia |  |

Measure: Index score
Source: Oxford Insights <https://oxfordinsights.com/ai-readiness/ai-readiness-index/>

16

5G



Infrastructure







5G Infrastructure

Chart 16.1

Commonwealth countries
in 2023

- With a 5G Infrastructure 
- Without a 5G Infrastructure 

| Country | 5G Infrastructure |
|--|---|
| Antigua and Barbuda |  |
| Australia |  |
| Bahamas |  |
| Bangladesh |  |
| Barbados |  |
| Belize |  |
| Botswana |  |
| Cameroon |  |
| Canada |  |
| Cyprus |  |
| Dominica |  |
| Eswatini |  |
| Fiji |  |
| Gabon |  |
| Ghana |  |
| Grenada |  |
| Guyana |  |
| India |  |
| Jamaica |  |
| Kenya |  |
| Kiribati |  |
| Lesotho |  |
| Malawi |  |
| Malaysia |  |
| Maldives |  |
| Malta |  |
| Mauritius |  |
| Mozambique |  |
| Namibia |  |
| Nauru |  |
| New Zealand |  |
| Nigeria |  |
| Pakistan |  |
|  Papua New Guinea |  |
| Rwanda |  |
| Saint Kitts and Nevis |  |
| Saint Lucia |  |
| Saint Vincent and the Grenadines |  |
| Samoa |  |
| Seychelles |  |
| Sierra Leone |  |
| Singapore |  |
| Solomon Islands |  |
| South Africa |  |
| Sri Lanka |  |
| Togo |  |
| Tonga |  |
| Trinidad and Tobago |  |
| Tuvalu |  |
| Uganda |  |
| United Kingdom of Great Britain and Northern Ireland |  |
| United Republic of Tanzania |  |
| Vanuatu |  |
| Zambia |  |

Measure: Yes/No

Source: Oxford Insights <https://oxfordinsights.com/ai-readiness/ai-readiness-index/>

Appendix: Data Sources

All data included in this report are collected up to February 2024, representing the latest available information from the specified sources. It is essential to note that, due to varying update frequencies, some countries may not have the most recent data reflected in this report. Consequently, the information for these countries is subject to updates post-submission of the report.

The data featured on the page of key findings are compiled using the latest available data from reputable open sources for the countries, along with a comparative analysis of the indicator among Commonwealth nations.

The extensive task included aggregating data from the sources and conducting analysis utilizing one of the most powerful analytical tool.

For a detailed overview of the sources and references used in this report, kindly refer to the references as below:

- ITU (<https://www.itu.int/en/ITU-D/Statistics/Dashboards/Pages/Digital-Development.aspx>)
- UN Public Administration (<https://publicadministration.un.org/egovkb/Data-Center>)
- Oxford Insights (<https://oxfordinsights.com/ai-readiness/ai-readiness-index/>)



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