

E-Resilience Monitoring Dashboard

User Guide

26 September 2023. Contact: ESCAP-IDS escap-ids@un.org

e-Resilience Monitoring Dashboard | ESCAP (unescap.org)



Table of contents

Introduction	3
Economic Group Function	4
Filter (Slicer)	6
Front Page – Data Table	7-9
Filter (Slicer) Front Page – Data Table Bullet Chart Internet speed Map Hazard Maps Bar Chart of Hazard and Exposure Country Profiles All Country Profiles Bar Chart of e-Resilience Indicators in Pillars	10-11
Internet speed Map	12
Hazard Maps	13
Bar Chart of Hazard and Exposure	14
Country Profiles	15
All Country Profiles	16
Bar Chart of e-Resilience	17
Indicators in Pillars	18-21
Glossary of terms, Abbreviations and Acronyms	22



Introduction

E-resilience is defined (ESCAP, 2020) as the ability of a system, community, or society exposed to hazards to resist, absorb, accommodate, adapt to, transform, and recover from the effects of a hazard in a timely and efficient manner, including through the preservation and restoration of its essential basic structures and functions through risk management.

ESCAP secretariat updated its <u>E-Resilience Dashboard</u> in Power BI format in 2022 (working paper is published in 2023) to assess crisis preparedness through seamless digital connectivity to promote a digital policy environment and respond to recommendations of the SPECA Working Group on Innovation and Technology for Sustainable Development (2020, 2021, 2022).

This E-Resilience Monitoring Dashboard User Guide in ppt format provides comprehensive instructions on how to access the open source data on PowerBi platform to support economic groups, individuals, organisations, and decision-makers who utilise the E-Resilience Monitoring Dashboard Tool with a planning tool.



China D.P.R. Korea Hong Kong Japan Korea (Rep) Macao Mongolia Russian Federation

RECI: Regional Economic Cooperation and Integration - Pilot Countries

Kazakhstan Kyrgyzstan Mongolia

LDC: Least Developed Countries

Afghanistan Bangladesh Bhutan Cambodia Kiribati Lao P.D.R. Myanmar, Nepal Solomon Islands Timor-Leste Tuvalu Vanuat 34

LLDC: Land-locked Developing Countries

Afghanistan Armenia Azerbaijan Bhutan Kazakhstan Kyrgyzstan Lao P.D.R. Mongolia Nepal ™jikistan Turkmenistan Uzbekistan

NCA: North and Central Asia

Armenia Azerbaijan Georgia Kazakhstan Kyrgyzstan Russian Federation Tajikistan Turkmenistan Uzbekistan

PACIFIC: Pacific

American Samoa Australia Cook Islands Fiji French Polynesia Guam Kribati Marshall Islands Micronesia, Nauru New Caledonia, New Zealand Niue Northern Marianas Palau Papua New Guinea Samoa Solomon Islands Tonga Tuvalu Vanuatu

Economic Groups



PACIFIC DEVELOPING: Pacific Developing

American Samoa Cook Islands Fiji French Polynesia Guam Kiribati Marshall Islands Micronesia Nauru New Caledonia Niue Northern Marianas Palau Papua New Guinea Samoa **Solomon Islands Tonga Tuvalu Vanuatu**

PICS: Pacific Island Countries

Fiji Kiribati Marshall Islands Micronesia (Federated States of) Nauru Palau Papua New Guinea Samoa Solomon Islands Tonga Tuvalu Vanuatu American Samoa Cook Islands French Polynesia Guam New Caledonia Niue Northern Mariana Islands

SA: South Asia

Afghanistan Bangladesh Bhutan India Maldives Nepal Pakistan Sri Lanka

SEA: South-East Asia

Brunei Darussalam Cambodia Indonesia Lao P.D.R. Malaysia Myanmar Philippines Singapore Thailand Timor-Leste Viet Nam

SSWA: South and South-West Asia

Afghanistan Bangladesh Bhutan India Iran (I.R.) Maldives Nepal Pakistan Sri Lanka Turkey

SPECA: Special Program for the Economies of Central Asia

Afghanistan Azerbaijan Kazakhstan Kyrgyzstan Tajikistan Turkmenistan Uzbekistan



Function Icon



Focus Mode

Enlarges any data set or interactive maps to full screen



Drill Up

Folds all the detailed indicators



Drill Down

Unfold specific indicators that users select



Next Level in the Hierarchy

Opens all the indicators



Expand All

Opens all pillars and the indicators

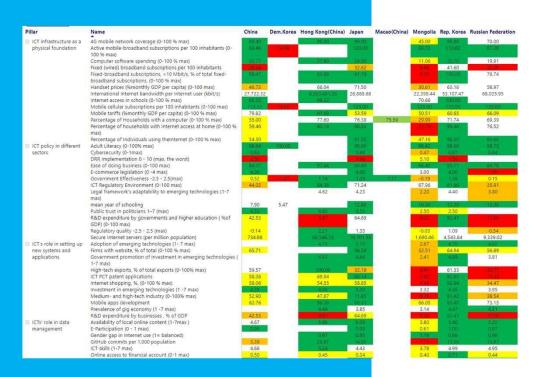


Filter (Slicer)

order
p filter must be selected initially to use the country filter
in the selected pillar
dicator

Country Group Country Pillar Indicator Year Kazakhstan Kyrgyzstan Mongo... All △ All All 2020 O ENEA Afghanistan DRR background 4G mobile network coverage (... 2020 Kazakhstan Kyrgyzstan Mong Armenia Active mobile-broadband sub... 2022 ICT infrastructure as a physical... O LDC Azerbaijan Adoption of emerging technol... 2024 ICT policy in different sectors 2026 Bhutan O LLDC Adult Literacy (0-100% max) ICT's role in setting up new sy... Kazakhstan Availability of local online cont... O NCA Kyrgyzstan Computer software spending (... Pacific Mongolia Cybersecurity (0-1max) Pacific Developing Nepal DRR Implementation 0 - 10 (... O PICS Tajikistan Ease of doing business (0-100 ... O SA Turkmenistan E-commerce legislation (0 -4 ...





Data Table (Front Page)

Data Table shows the ICT scores and corresponding colors of indicators belonging to the countries.

Clicking Pilar and Name to sort the indicators again.

Clicking each country to highlight the selected country.

It should be noted that the dashboard has data for 2022.



Kazakhstan Kyrgyzstan Mongolia V Hazard & Exposure Kazakhstan Kyrgyzstan Mongolia ICT infrastructure as a 4G mobile network coverage (0-100 % max) physical foundation Active mobile-broadband subscriptions per 100 inhabitants (0-100 % max) Computer software spending (0-100 % max) Fixed (wired) broadband subscriptions per 100 Fixed-broadband subscriptions, >10 Mbit/s, % of total fixed-broadband subscriptions, (0-100 % max) Handset prices (%monthly GDP per capita) (0-100 Internet access in schools (0-100 % max) Mobile cellular subscriptions per 100 inhabitants (0-Mobile tariffs (%monthly GDP per capita) (0-100 % Percentage of Households with a computer (0-100. Percentage of households with Internet access at Percentage of Individuals using theInternet (0-100 % Adult Literacy (0-100% max) Cybersecurity (0-1max) DRR Implementation 0 - 10 (max, the worst) Ease of doing business (0-100 max) E-commerce legislation (0 -4 max)

Data Table linked to Map (Front Page)

Data Table and Tooltip shows the ICT scores and corresponding colors of indicators belonging to the countries and the colour code legend

The data tables are also linked to the interactive geographic maps, highlighting economic groups with tooltip of data on scores of hazard and exposure



Indicator Name

Country

Kazakhstan

Active mobile-broadband subscriptions per 100 inhabitants (0-100 % max)

Year of data access

2020 report

Initial Source of data

https://www.itu.int/en/ITU-D/Statistics/Pages/stat/default.aspx

Indicator Description

The term "active mobile-broadband subscriptions" refers to the sum of data and voice mobile-broadband subscriptions and data-only mobile-broadband subscriptions to the public Internet. It covers subscriptions actually used to access the Internet at broadband speeds, not subscriptions with potential access, even though the latter may have broadband-enabled handsets. Subscriptions must include a recurring subscription fee to access the Internet or pass a usage requirement – users must have accessed the Internet in the previous three months. It includes subscriptions to mobile-broadband networks that provide download speeds of at least 256 kbit/s (e.g. WCDMA, HSPA, CDMA2000 1x EV-DO, WiMAX IEEE 802.16e and LTE), and excludes subscriptions that only have access to GPRS, EDGE and CDMA 1xRTT.

Color Code Interpretation:

the least network-ready economy in the pillar or component concerned. Requires more investments or support from other member states to achieve e-resilience. 31% - 44.9% - Orange: the economy does not perform well enough in the pillar or component concerned. In transition and requires more resources and capacity building and investments to achieve better e-resilience. 45%- 59.9% - Yellow: the economy is a good performer when

it comes to the pillar or component concerned, nevertheless there is room for improvement which requires some more resources and capacity building to become more e-resilient. 60% – 74.9% - Light green: the economy is a strong performer as a result of solid showings in the pillar or component concerned. Ready for sharing experiences, services and tools (ex. e-platforms and e-market spaces) at interstate level, and there is some room for improvement to become more eresilient.

75% – 100% - Dark green: the economies, which are the global leaders and most network-ready societies performing at the highest level in the index pillar or component concerned. Which in turn demonstrates high e-resilience and readiness for interstate share of experience and services.

Data Table Tooltip (Front Page)

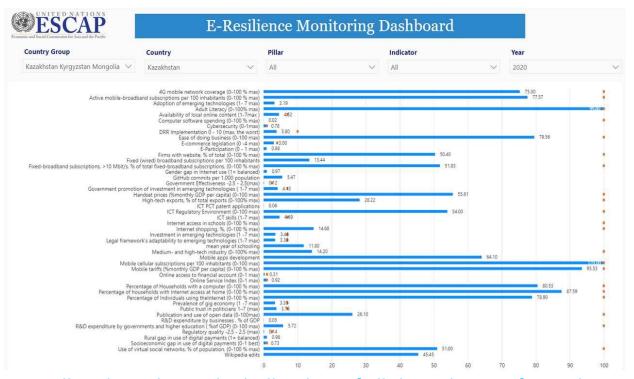
Tooltip appears when user hovers the mouse over certain data on the table

Tooltip displays Indicator Name, Country, Year of data access, Score, Source of data, Description of the the indicator



Bullet Chart

(2nd Page)

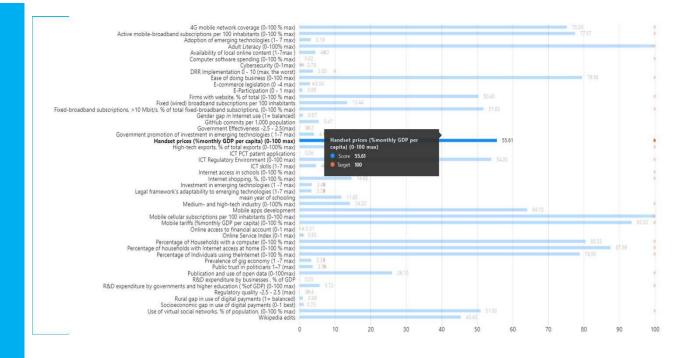


Bullet Chart shows the bullet data of all the indicators for each country

The Chart displays the score of indicators against the target score



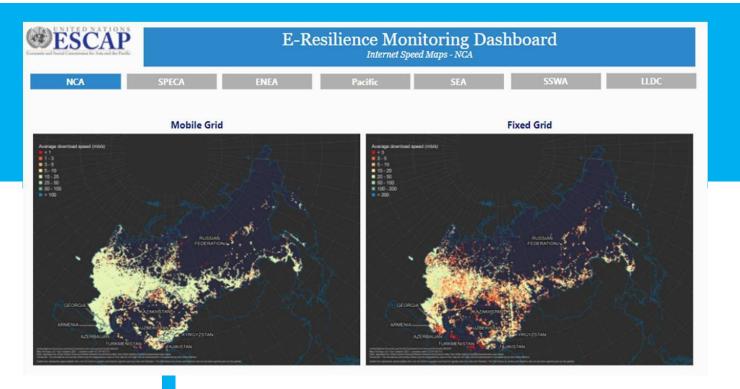
Bullet Chart Tooltip (2nd page)



Tooltip appears when hovering the mouse over the bar of certain indicator on the table

Tooltip highlights specific value of the Current Score and the Target Score



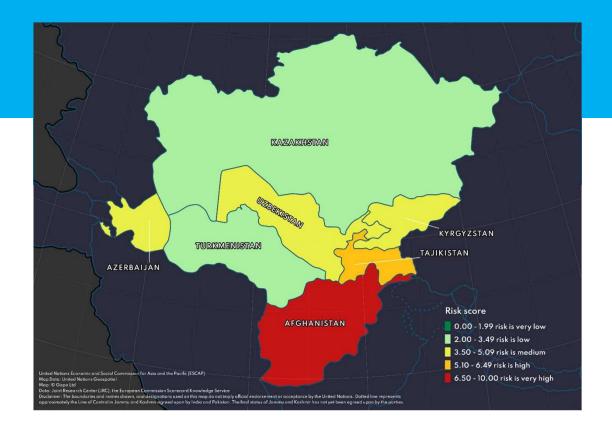


Internet
Speed Maps
(3rd Page)

Internet Speed Maps displays the mobile and fixed grid format of the seven country groups. Both types of the map displays the Average Download Speed. Navigate each country group through the sections above the map.



Hazard Maps (4th Page)

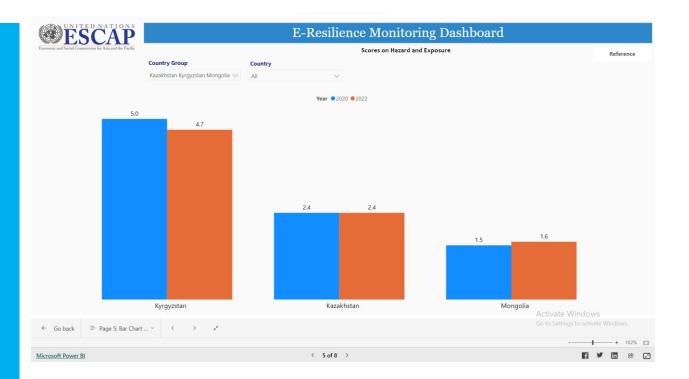


Hazard Maps display the risk score of each countries. The country groups can be selected on the left side of the map.



Bar Chart of Hazard and Exposure

(5th page)

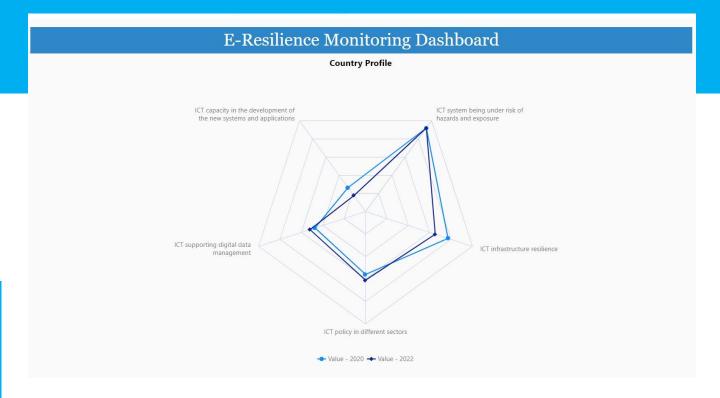


A bar chart of hazard and exposure represents a graphical representation of data that illustrates the relationship between two variables: hazard and exposure.

This visual representation allows stakeholders to quickly identify which hazards have the highest potential risk due to their level of exposure and make informed decisions regarding risk mitigation and management.



Country profiles (6th Page)



Country profiles are presented in the form of pentagonal diagrams, which represent all 5 pillar.



All Country Profiles for 2022 (7th Page)



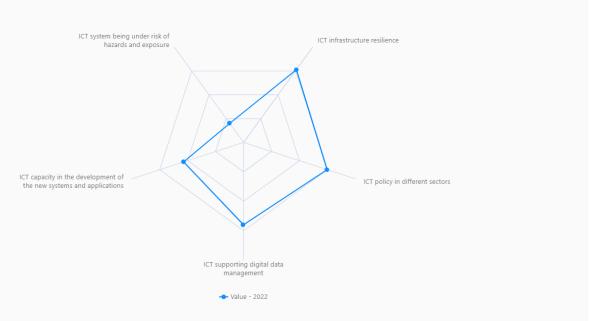
Country • Armenia

- Australia
- O Azerbaijan
- O Bangladesh
- O China
- Georgia
- IndiaIndonesia
- O Japan
- Kazakhstan
- O Korea (Rep. of)
- O Kyrgyzstan
- O Lao PDR
- Malaysia
- MongoliaNepal
- O New Zealand
- O Pakistan
- O Philippines
- O Russian Federation

Pillars	2022	
ICT system being under risk of hazards and exposure	16.00	
ICT supporting digital data management	55.96	l
ICT policy in different sectors	59.80	

E-Resilience Monitoring Dashboard

All Country Profile

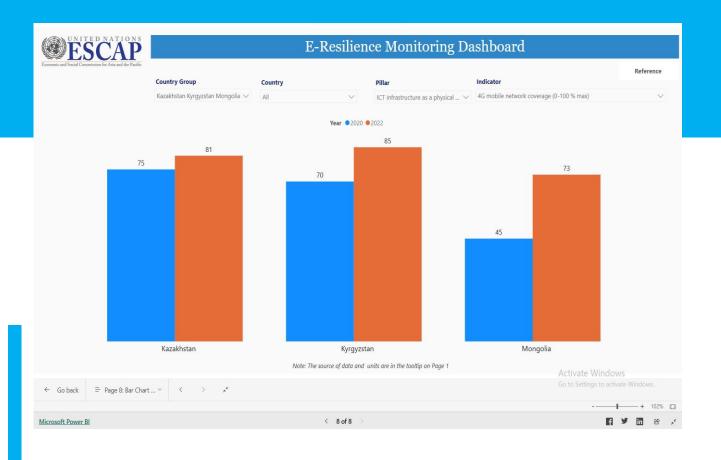


E-resilience Monitoring Toolkit: Methodological Notes and Pilot Countries' E-resilience Profiles. Asia-Pacific Information Superhighway Working Paper Series. United Nations ESCAP, ICT and Disaster Risk Reduction Division, November 2021. Bangkok.

Activate Windows



Bar Chart of e-Resilience (8th Page)



The bar chart of e-resilience represents a visual representation of the e-resilience levels of different countries. The bar chart of eresilience can help depict and compare the e-resilience levels.



ICT Policy in Different Sectors (pillar)

Ease of Doing Business

Legal Framework's Adoptability to Emerging Technologies

E-Commerce Legislation

ICT Regulatory Environment

Secure Internet Servers

Cybersecurity

Regulatory Quality

Audit Literacy

Mean Year of Schooling

R&D Expenditure by Governments and Higher Education

Public Trust in Politicians

Government Effectiveness

DRR Implementation



ICT Infrastructure as a Physical Foundation (pillar)

Mobile Cellular Subscriptions per 100 Inhabitants

Percentage of Individuals Using the Internet

Fixed Broadband Subscriptions per 100 Inhabitants

Active Mobile-Broadband Subscriptions per 100 Inhabitants

Mobile Tariffs

Handset Prices

Computer Software Spending

Percentage of Households with Internet Access at Home

Percentage of Households with a Computer

4G Mobile Network Coverage

Fixed-Broadband Subscriptions

International Internet Bandwidth per Internet User (kbit/s)

Internet Access in Schools



ICT's Role in Data Management (pillar)

Online Service Indicator (OSI)

GitHub Commits per 1,000 Population

Wikipedia Edits

Availability of Local Online Content

Use of Virtual Social Networks

ICT Skills

Publication and Use of Open Data

Online Access to Financial Account

E-Participation

Gender Gap in Internet Use

Rural Gap in Use of Digital Payments

Socioeconomic Gap in Use of Digital Payments



ICT's Role in Setting up New Systems and Applications (Pillar)

ICT PCT Patent Applications

Firms with Website (% of total)

R&D Expenditure by Businesses

Government Promotion of Investment in Emerging Technologies

Investment in Emerging Technologies

Adoption of Emerging Technologies

Internet Shopping

Medium- and High-tech Industry

High-Tech Exports

Prevalence of Gig Economy

Mobile Apps Development



Glossary of Terms; Abbreviations; Acronyms

DRR Disaster Risk Reduction

E-Resilience An ability of ICT systems to withstand, recover from and

change in the face of external disturbance such as a natural

disaster

GDP Gross Domestic Product

Gig Economy A labor market specific to digital platforms and to working

arrangements that are focused on short-term contracts and

task-based work

ICT Information and Communications Technology

PCT Patent Cooperation Treaty

R&D Research and Development



Edited by Hegine Margaryan, Intern, IDS, IDD, ESCAP October 9, 2023

Contact: ESCAP-IDS escap-ids@un.org>

