

## UN E-Government Development Index (EGDI)



### **Caribbean ICT Indicators Workshop**

### "Measuring The Digital Society For Digital Inclusion"

Trinidad and Tobago/Virtual Meeting

Ms. Arpine Korekyan Governance and public Administration Officer DPIDG-UNDESA

> Date: 28 March 2023 New York, UNHQ

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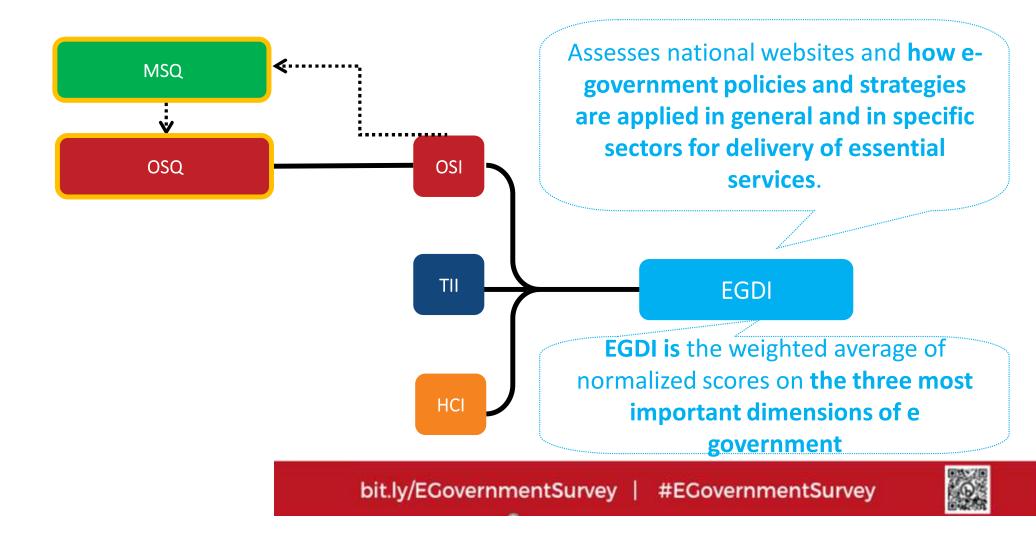
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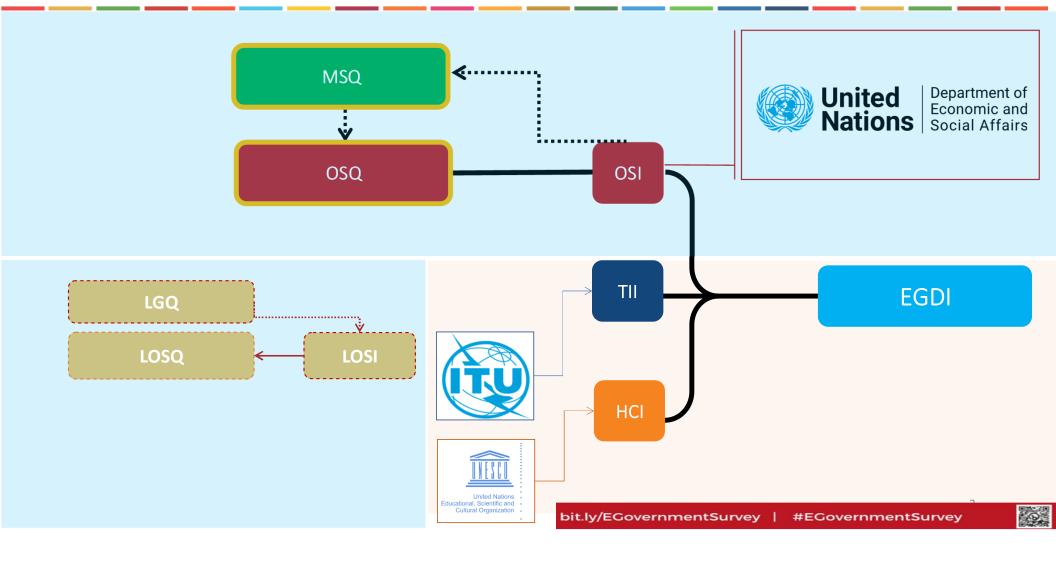
### More than 20 years of data - and a vision of the future

The Survey looks at how digital government can facilitate integrated policies and services across 193 UN Member States. It supports countries' efforts to provide effective, accountable and inclusive digital services to all, bridge the digital divide and leave no one behind.

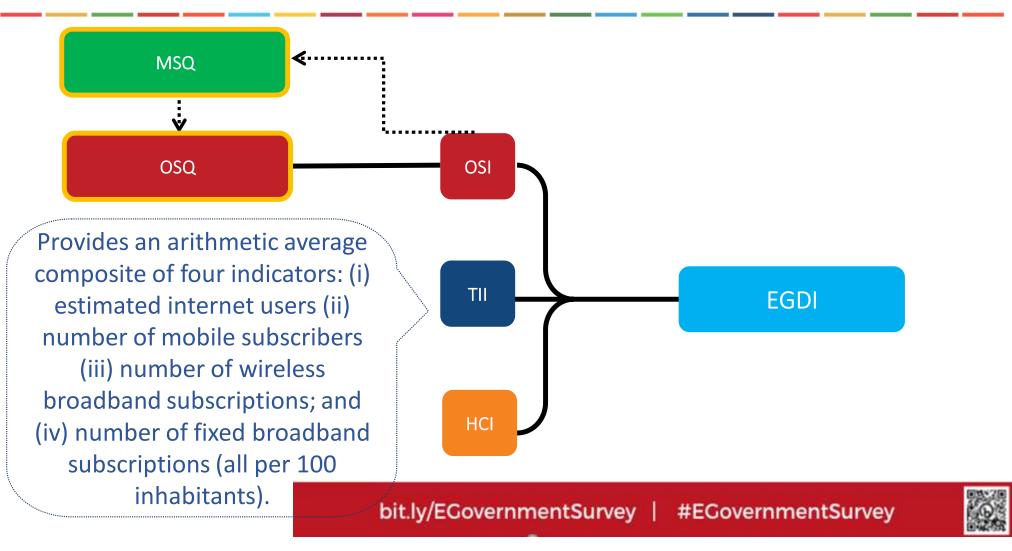




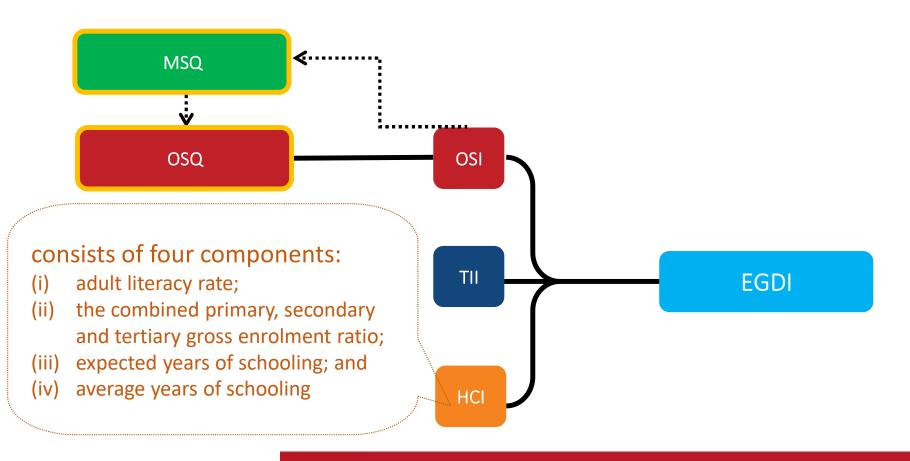








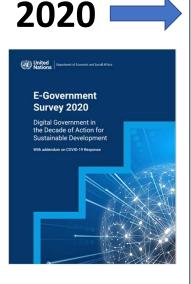








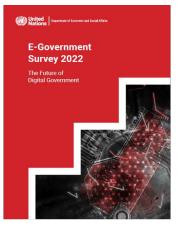
## What Was Changed



To take into account learned, inputs and feedback received by different stakeholders, by EGM and by latest technological and policy development, a limited number of changes were introduced as the following:

- The Online Services Index (OSI) has been refined. The 2022 OSI has been calculated based on 180 questions (up from 148 in 2020)
- The E-Participation Index (EPI) methodology has been improved to better assess engagement
- The Member State Questionnaire (MSQ) was expanded
- The assessment of city portals has been expanded from 100 cities in 2020 to 193 in 2022
- The annexes have been extended with two pilot initiatives (Complex Network Analysis and the Open Government Data Index)



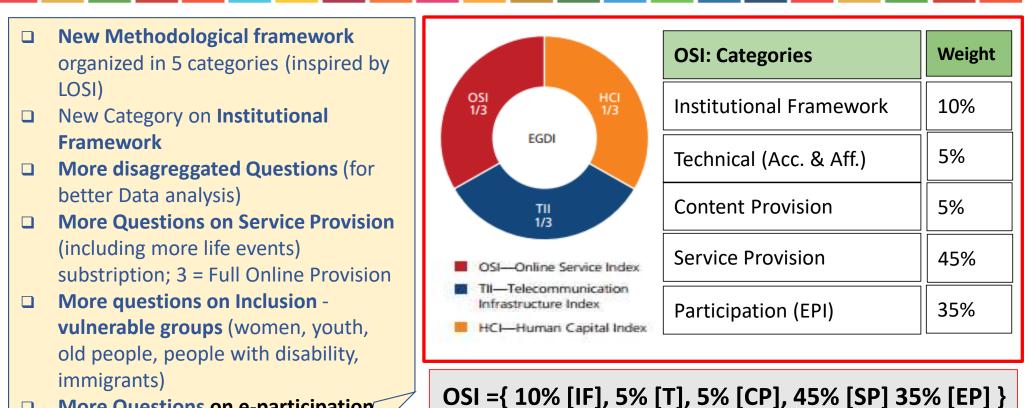






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## **OSI Methodology**



More Questions on e-participation (decision-making)





## **E-Government Survey 2022**

### **Global and Regio** al Trends

2022 E-Government Development Index

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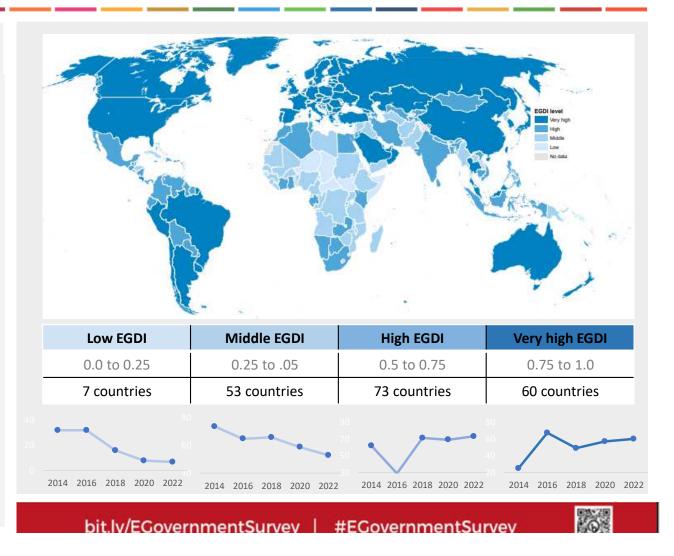




## **Global Trends at a glance, 2022**

### Key Messages:

- ✓ E-government development has improved between 2020 and 2022:
  - global average EGDI value rose from 0.5988 to 0.6102
- 133 UN Member States (70%) have
   Very high (60) and High (73) EGDI
   values
  - A 5% increase since 2020
- ✓ Only 7 countries have Low-EGDI level
  - all 7 are LDC/LLDC/SIDSs;
  - 6 in Africa, 1 in the Americas
- ✓ the trend for the last 8 years suggests increasing number of countries improving e-government development





### **Countries with Upward Movement**

### **Key Findings:**

### 14 countries moved to higher E-Government Development Index (EGDI) groups:

- 2 from the low to the middle group
- 8 from the middle to the high group
- 4 from the high to the very high group

The upward movement of countries between EGDI groups usually involves a shift from the top rating class of one EGDI group to the lowest rating class of the next highest group.

Very high EGOI	N SI	Country	Region	Rating Class 2020	Rating Cla 2022
<b>kryhi</b>	N				
2	-	Serbia	Europe	HV	V2
	2	Ukraine	Europe	HV	V1
-	¥	Peru	Americas	HV	V1
1 10	-	Georgia	Asia	HV	V1
8	¥				
High-EGDI		Rwanda	Africa	MH	H1
Hig	垩	Côte d'Ivoire	Africa	MH	H1
	-	Lebanon	Asia	MH	H1
	두	Guyana	Americas	MH	H1
	-	Nepal	Asia	MH	H1
	-	Tajikistan	Asia	MH	H1
8	-	Belize	Americas	MH	H1
P.E.	-	Zambia	Africa	M3	H1
Middle-E001	M				
	÷	Democratic People's			
	-	Republic of Korea	Asia	LM	M1
	IN	Guinea-Bissau	Africa	LM	M1
00	9				
Low-EDDI	n				
	-				

Source. 2022 United Nations E-Government Survey

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### Countries in Special Situation (LDCs, LLDCs, SIDSs)

### **Key Findings**

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 The combined average EGDI value for LDCs, LLDCs and SIDS rose by 3% between 2020 and 2022 but remains well below the world average.

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- □ LDCs have the lowest average EGDI value (0.35) among the three special groups.
- When LDCs are excluded from the analysis of LLDCs and SIDS, the average EGDI values for the latter two groups are higher for SIDS and for LLDCs.
- LLDCs comprise the only group among MS in special situations that has an average EGDI value above the global average.
- LLDCs also have the highest averages for the EGDI subindices (TII, HCI and OSI), followed by SIDS



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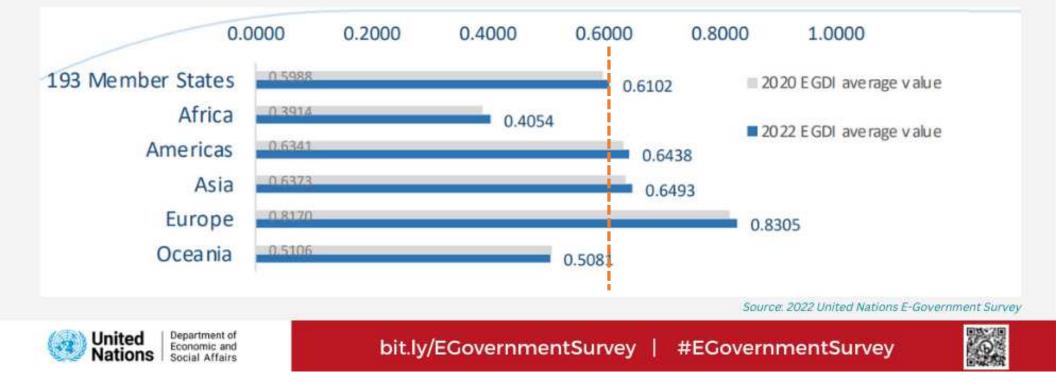
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### **REGIONAL DIVIDES IN E-GOVERNMENT**

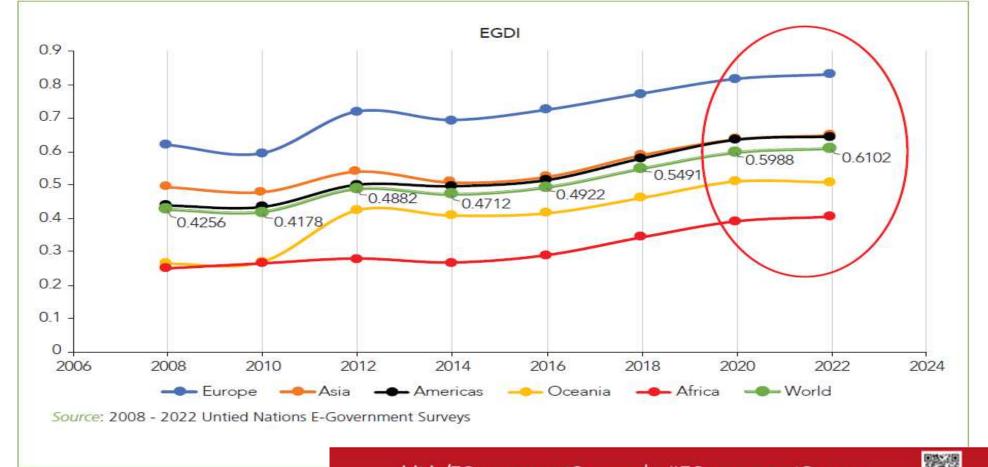
Europe remains the leader in e-government development Index (EGDI of 0.8305), followed by Asia (0.6493), the Americas (0.6438), Oceania (0.5081), and Africa (0.4054).







## EGDI Series (2008-2022)



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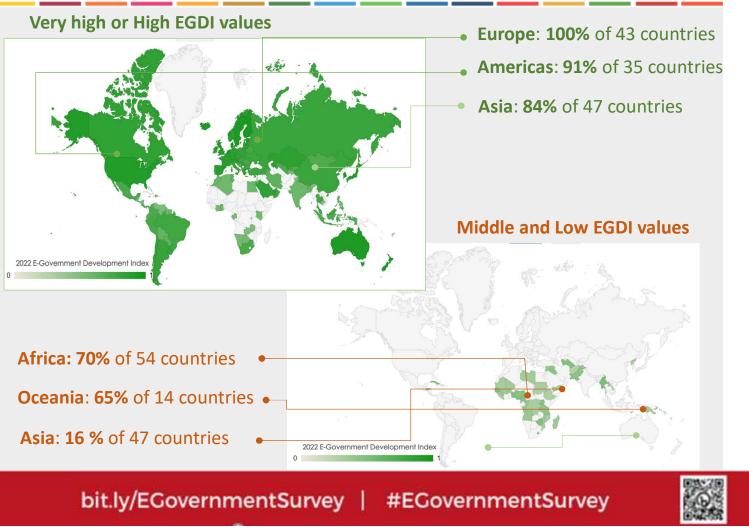
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## EGDI sub-groups, 2022

- 60 Countries are in the
   VH-EGDI. These countries
   are equally distributed
   between the VH, V3, V2
   and V1 rating classes.
- 73 countries are in the H-EGDI
- Majority of Very high and High EGDI countries are in Europe, the Americas and Asia
- 60 Countries (53+7) are
   in the M-EGDI and L EGDI
- Majority of Middle and
   Low EHDI countries are in
   Africa and Oceania



### GLOBAL DIGITAL DIVIDE



Despite investments in technology and the development gains achieved in many countries, the digital divide persists.

Using the global average E-Government Development Index (EGDI) value as a proxy for measuring the digital divide, the 2022 Survey indicates that about 45% of the combined population of the United Nations Member States (3.5 billion people) still lag behind.



The path to digital inclusion and sustainable development remains fraught with obstacles and uncertainties, especially in Africa and among Least Developed Countries (LDCs) and small island developing States (SIDS). Geographical distribution of countries with EGDI values above and below the global average EGDI value



Source: 2022 United Nations E-Government Survey,

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## **Regional Digital Divide**

### **Population Living with EGDI below World Average**

important and growing digital divides remain between and within developed and developing countries in terms of the availability, affordability and use of information and communications technologies and access to broadband

In Africa, 95% of the population lags behind.



Department of United Economic and Nations Social Affairs Population living in countries with EGDI values above and below the world average (Thousands)





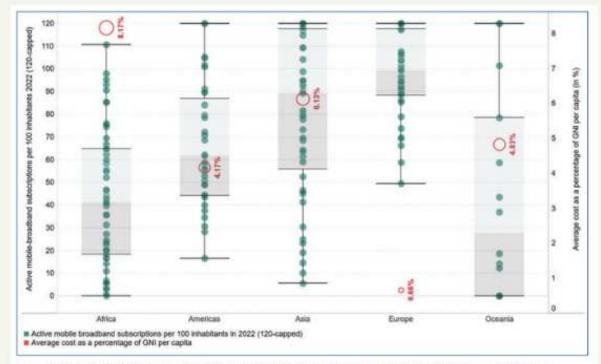


# Digital Divides, 2022

### **Key Messages:**

There has been an **increase** in fixed (wired) broadband subscriptions in all regions since 2020; the **48% jump** in Africa is noteworthy, though the subscription rate in this region remains the lowest by far at **2.7** subscriptions per 100 inhabitants.

The cost of mobile broadband subscriptions as a percentage of Gross National Income (GNI) Per capita remains significantly higher in Africa than in other parts of the world, contributing to the digital divide. The cost of active mobile broadband subscriptions as a percentage of gross national income per capita, by region, 2022



Source. International Telecommunication Union, Statistics (2022), available at https://www.itu.int/endTU-0/Statistics/Pages/stat/default.mps.

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## **Leaving No One Behind**

#### Leaving no one behind in the hybrid digital society

#### 4.1 Introduction

The principle of learing no one behind has its origins in the latin phrase more marked, used is warken to immersite the disperiation of people's base on their ability to function as a single entity—which mean more abandmening anyone injured or incapiostation of the battlenhold. This milling which has its influenced other fields of indicatous. It is no conclusions that the principle of learning no exhibit has energing at across the U200 Appreds for Sustainable Development Cashing across the U200 Appreds for Sustainable Development across that the U200 Appreds for the statisticable Development cashed by all countries and stakeholds for the sustainable barborism and that the Gask, indicators and largets will not be considered development in therefore not possible if winerable sugments of society are excluded and of the therid.

While the perceptive of Goals hearing not only if they are met for everyones well actabative in the indirect runnaring the SDGs, the reality remains far removed from the ideal, and what learning no one behind means in practice is still nucleas. The world contributes to weakle with translating the piedge of learning no one behind into pragmetic policies and actions on the ground. And is world contributes to weakle with translating the piedge of learning no one behind into pragmetic policies and actions in decimal the context of the present ruport, this means exploring the decorrect within the digital government cooptim — the last that most of the sgains and advancement in a government target and benefit the higher income, more literatu, and other advantaged signifiest of society, while efforts to meaning/lay some the lower income and more valuedable polations are often thinteed or future.

#### 4.1.1 Leaving no one behind is one of the 11 principles of effective governance for sustainable development

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Chapter 4





Find out more in the UN E-Government Survey 2022



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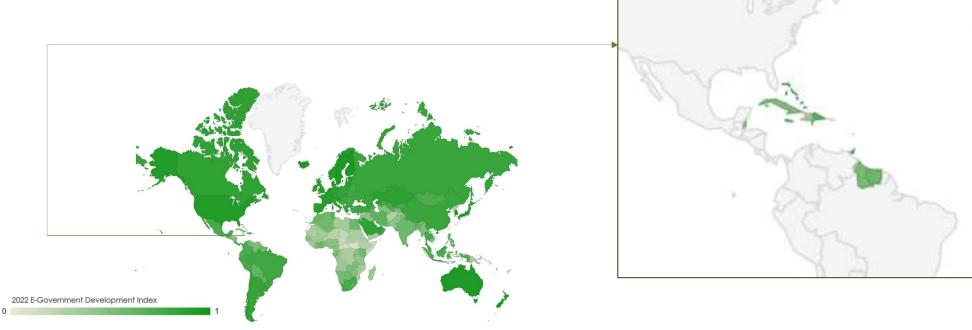
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# **E-Government Survey 2022**

# **Trends in the Caribbean**





## **Trends in Caribbean region (16 countries)**

**Key Findings:** 

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Increased avg EGDI since 2020:

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• 2022 avg – 0.5868

 2020 avg - 0.5644
 [Still below the global avg EGDI value of 0.6102]

 Majority [14] have HEGDI values

- 1 Middle-EGDI [Cuba]
- 1 Low-EGDI [Haiti]

### 3 countries had upward movement from M to H EGDI

 Jamaica, Saint Lucia, and Suriname

Country ↑	Group	Rating Class	Rank 2022	EGDI 2022	Rank Change				
Antigua and Barbuda	HEGDI	H2	99	0.6113	-1				
🗾 Bahamas	HEGDI	HV	66	0.7277	+7				
Barbados	HEGDI	H3	79	0.7117	-17				
O Belize	HEGDI	H1	133	0.5005	+3				
🔚 Cuba	MEGDI	MH	136	0.4945	+4				
📰 Dominica	HEGDI	H2	109	0.5789	-10				
Dominican Republic	HEGDI	H3	92	0.6429	-10				
🔀 Grenada	HEGDI	HV	66	0.7277	+36				
📂 Guyana	HEGDI	H1	123	0.5233	+6				
📕 Haiti	LEGDI	LM	187	0.2481	-7				
🔀 Jamaica	HEGDI	H2	102	0.5906	+12				
🔯 Saint Kitts and Nevis	HEGDI	H3	87	0.6775	+8				
🔀 Saint Lucia	HEGDI	H2	114	0.5580	-2				
Saint Vincent and the Grenadines	HEGDI	H2	107	0.5811	+2				
💼 Suriname	HEGDI	H2	108	0.5809	+]4				
📉 Trinidad and Tobago	HEGDI	НЗ	93	0.6339	-12				
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## **Trends in Caribbean region (16 countries)**

### **Key Findings:**

### Highest EGDI sub-indices values:

- OSI 0.6214 [Bahamas]
- TII 0.8293 [St. Kitts and Navis]
- HCI 0.8977 [Grenada]
- EPI 0.4545 [Dominican Republic]

### Digital divides persist:

- 7 counties above EGDI global average
- 9 countries below EGDI global average
- EDGI values range from 0.7277 [Bahamas, Grenada] to 0.2481 [Haiti]

Country	EDGI Rank 2022	EGDI	EPI	OSI	HCI	TII
Bahamas	66	0.7277	0.3977	0.6214	0.7641	0.7976
Grenada	66	0.7277	0.2045	0.5507	0.8977	0.7348
Barbados	79	0.7117	0.3977	0.5388	0.8645	0.7318
Saint Kitts and Nevis	87	0.6775	0.2045	0.3307	0.8724	0.8293
Dominican Republic	92	0.6429	0.4545	0.6183	0.7539	0.5567
Trinidad and Tobago	93	0.6339	0.2386	0.4892	0.7409	0.6717
Antigua and Barbuda	99	0.6113	0.4205	0.4231	0.8128	0.5981
Jamaica	102	0.5906	0.2841	0.4914	0.7148	0.5658
Saint Vincent and the Grenadines	107	0.5811	0.3864	0.4526	0.7420	0.5486
Suriname	108	0.5809	0.2045	0.3418	0.6921	0.7089
Dominica	109	0.5789	0.0909	0.2954	0.6810	0.7604
Saint Lucia	114	0.5580	0.4091	0.4007	0.7049	0.5683
Guyana	123	0.5233	0.2159	0.4509	0.6546	0.4643
Belize	133	0.5005	0.2045	0.4425	0.6707	0.3882
Cuba	136	0.4945	0.1364	0.2789	0.8384	0.3663
Haiti	187	0.2481	0.1023	0.0865	0.3930	0.2646

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## **Trends in Caribbean region (16 countries)**

### **Key Findings:**

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 7 countries offer more than 17 online service out of 22 assessed [global average is 16]

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- 14 out of 16 countries offer more than 10 online services out of 22 assessed
- The most offered online services:
  - Paying for utilities
  - Registering life events [birth, death, marriage]
  - Registering business

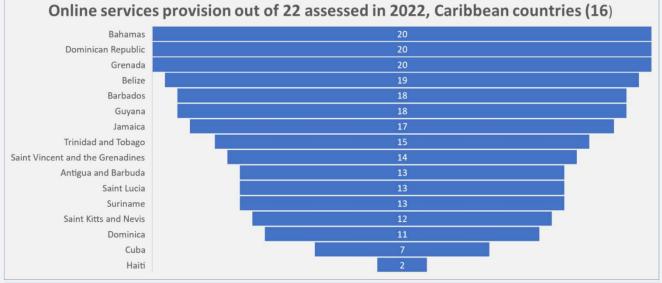
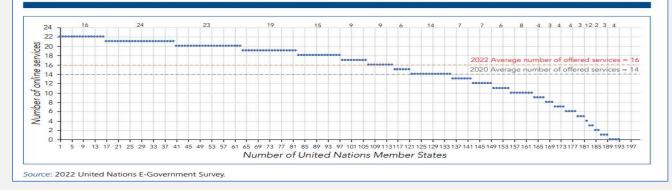


Figure 1.14 Numbers of Member States offering specified numbers of online transactional services, 2022





### **Key Messages:**

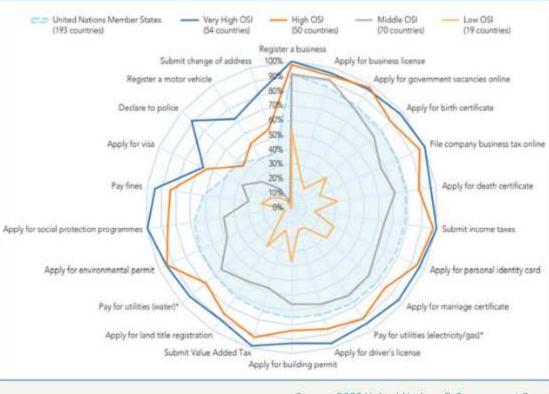
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A total of 22 online services have been assessed for the 2022 E-government Survey.

Globally, the most prevalent online transactional service is the registration of a new business.

The next most commonly offered online services include applying for government vacancies and business licenses, requesting birth, death, and marriage certificates, and paying utility bills.



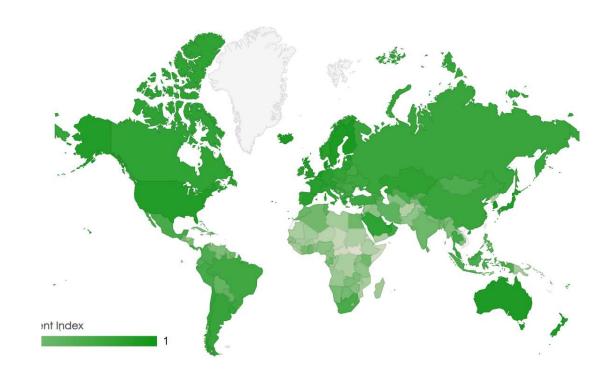


Source: 2022 United Nations E-Government Survey



# **E-Government Survey 2022**

# **Concluding remarks**







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# **Digital Government is Hybrid**



## The New Face of **Inequality** is Digital



- **The future of digital government is not digital but hybrid.** The primary objective is not digital development but rather recognizing human agency and supporting human development through digitalization.
- **Digital divides are not static**; vulnerability is a dynamic and shifting state, and a list of risk factors is not always sufficient to identify those who need different ways to access and utilize services.
- There is diversity and intersectionality for different vulnerable groups (women and girls, older people, persons with disabilities, youth, migrants, refugees, minorities, and other marginalized groups).
- **An inclusive, integrated digital/analogue ecosystem is needed** to facilitate and sustain inclusive e-government development so that everyone benefits, and no one is left behind.
- **Inclusive design has not received sufficient attention.** The most notable progress in e-government has benefitted those groups that are easiest to reach, with many of the poorest and most vulnerable being left behind.





### **E-Government** as an Equalizer for Inclusion



## **LNOB** as an **Operational** Principle

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- LNOB should guide policy development and implementation in egovernment and the public sector.
- Governments should adopt "inclusion by design", "inclusion by default" or "inclusion first" strategies,.
- **Targeted,** localized **and contextual approaches** are key, as not all excluded groups are confronted with the same barriers.
- A whole-of-government approach that integrates multilevel, multisectoral and multidisciplinary strategies and partnerships is needed for the implementation of inclusive digital government.
- **Top-down and bottom-up approaches** should be combined to better understand and address the e-government needs of the most vulnerable.
- □ The global community can play a part in **"leaving no country behind in** digital government", through knowledge exchange, capacity building and partnerships.





# **The Future of Digital Government**



## Innovation Should Focus on Human Development



Innovations and the broader digital transformation must aim to be truly inclusive.

□ More MS are deploying cutting-edge technologies such as cloud computing, artificial intelligence and blockchain.

□ Some have developed new methods for exploiting data-driven policy modelling tools and have created pilot initiatives and sandboxes to design, validate and scale up innovative solutions.

New approaches are strengthening MS analytical and anticipatory capabilities and are shaping future development scenarios.

MS are moving towards seamless, invisible government in which fully automated services are made accessible to anyone anytime from anywhere.

Cognitive government, agile and adaptive government, and the development of predictive capabilities, can better anticipate and respond to the needs of all members of society





# Thank You!