

# UN E-GOVERNMENT SURVEY



Since 2001, the **UN E-Government Survey** has presented a systematic assessment of the use and potential of information and communication technologies (ICTs) to **transform the public sector by enhancing effectiveness, inclusiveness, accountability**, access to public services and public participation, and at all levels of development.

The E-Government Survey is informed by over **two decades of longitudinal research, with a ranking of countries** based on the United Nations E-Government Development Index (EGDI), a combination of primary data (collected and owned by the UN DESA) and secondary data from other UN agencies (ITU, UNESCO and UNDP).

#### **Recent editions:**

2020	Digital Government in the Decade of Action for Sustainable									
	Development Chapter 6: Towards Data-Centric E-Government									

**2022** The **Future of Digital Government** 

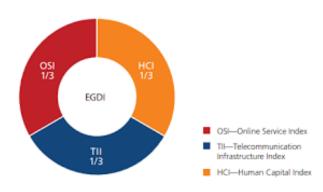
**TO BE LAUNCHED IN SEPTEMBER 2024** 

#### E-Government Development Index

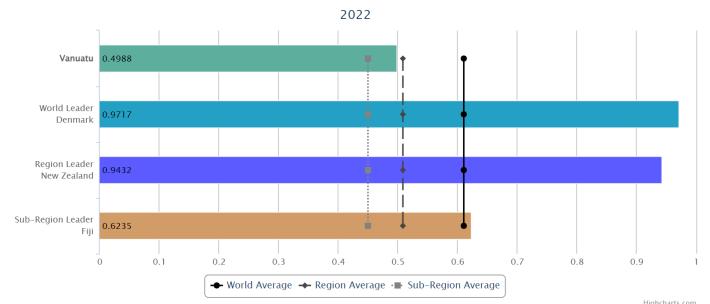


# Vanuatu

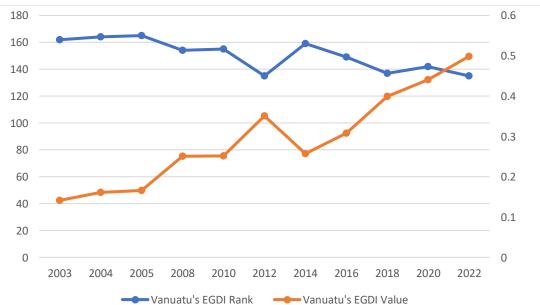
### **Happy Planet Index**



#### **E-Government Development Index (EGDI)**



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E-Government Development Index	2022	2020	2018	2016	2014	2012	2010	2008	2005	2004	2003	
Vanuatu (Rank)	135	142	137	149	159	135	155	154	165	164	162	
Vanuatu (Value)	0.49880	0.44030	0.39900	0.30780	0.25705	0.35120	0.25212	0.25100	0.16643	0.16175	0.14166	



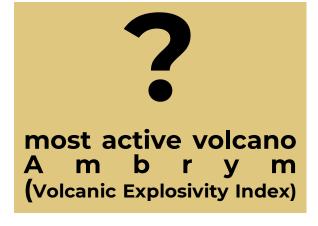














#### Source:

UN Data; World Bank Data;

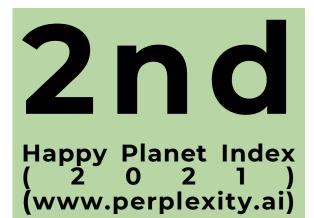
https://data.un.org/CountryProfile.aspx/\_Docs/CountryProfile.aspx?crName=Vanuatu

https://data.worldbank.org/indicator/SP.POP.TOTL?locations=VU;

Vanuatu National Statistic Office <a href="https://vnso.gov.vu/i">https://vnso.gov.vu/i</a>

https://www.statista.com/; https://happyplanetindex.org/

**TO BE VERIFIED** 



1980
Year of Independence from France and UK (www.perplexity.ai)

8 5

Islands in archipelago 65 of them being in h a b i t e d (https://facts.net/)

**326,740**Population (2022) https://data.worldbank.org/

\$3,231

GDP per capita,
World Bank (2022)

 Life Expectancy https://data.worldbank.org/

#### Source:

UN Data; World Bank Data;

https://data.un.org/CountryProfile.aspx/\_Docs/CountryProfile.aspx?crName=Vanuatu

https://data.worldbank.org/indicator/SP.POP.TOTL?locations=VU;

Vanuatu National Statistic Office <a href="https://vnso.gov.vu/i">https://vnso.gov.vu/i</a>

https://www.statista.com/; https://happyplanetindex.org/

**TO BE VERIFIED** 

# The future of digital government is not digital but hybrid-digital

- **Central role** of digital government, digital economy, digital society and the SDGs
- Changing institutional dimension of e-government, from silos to <u>whole-of-government</u>, <u>whole-of-society</u>, <u>and integrated strategies</u> covering multiple sectors, multilevel (across local jurisdictions) and multistakeholder (with private sector, academia and civil society)
- Role of digital government in <u>responding to crisis and emergencies</u> such as pandemics and conflict, supporting a responsive and resilient government
- Role of <u>AI and emerging technologies</u> in driving anticipatory, predictive and responsive services
- Need for a <u>national data governance framework</u> in supporting to digital government strategy

# Why data? Why data governance?

Data grows rapidly, and will reach 2,142 zettabytes in

**2035** (Note: One zetta is a "1" followed by 21 zeroes)

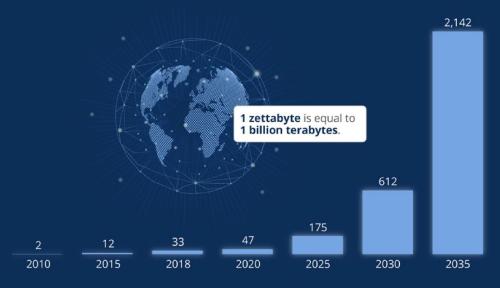
Close to 50 per cent will be stored in the public cloud



- Data governance precedes digital governance
- Data governance precedes AI governance, and governance of any other new/emerging technologies
- National data governance precedes global data/Al governance

### Global Data Creation is About to Explode

#### Follow our workshop



Actual and forecast amount of data created worldwide 2010-2035 (in zettabytes)

#NationalDataGovernance #DataGovernanceFramework #EGovernmentSurvey #SDGs #GlobalGoals #SmartBangladesh2041











### **Global Digital Data Trends**

- Optimizing the use of data will **increase the productivity, accountability and inclusivity of public institutions**, in line with the principles embodied in Goal 16 of the 2030 Agenda.
- A data-centric government will also help build trustworthiness and public trust.
- Many benefits around government data have yet to be realized.
   The greatest obstacles to progress include a general lack of understanding of data and data science, low political priority and the absence of data leadership, resource constraints, and concerns about data quality, security and privacy.
- Harvesting public value from data requires a long-term vision and approach.
   This involves mastering the economics and politics of data governance and management and effectively navigating the evolving data security and privacy landscape.

   As data governance encompasses much more than technical functions, Governments must employ a holistic, whole-of-government/society approach in developing an integrated data governance framework supported by policies, institutions, people and processes.



United Nations
Peace and
Development
Fund (UN PDF)

### **Project:**

Developing institutional capacities for digital data governance and cooperation to advance progress toward the Sustainable Development Goals

### **Objective:**

Enhancing the institutional and individual capacities of government officials and stakeholders in target countries, for digital data management, data governance and data cooperation to achieve mutual benefit, win-win outcomes and common development.



# **Project countries**

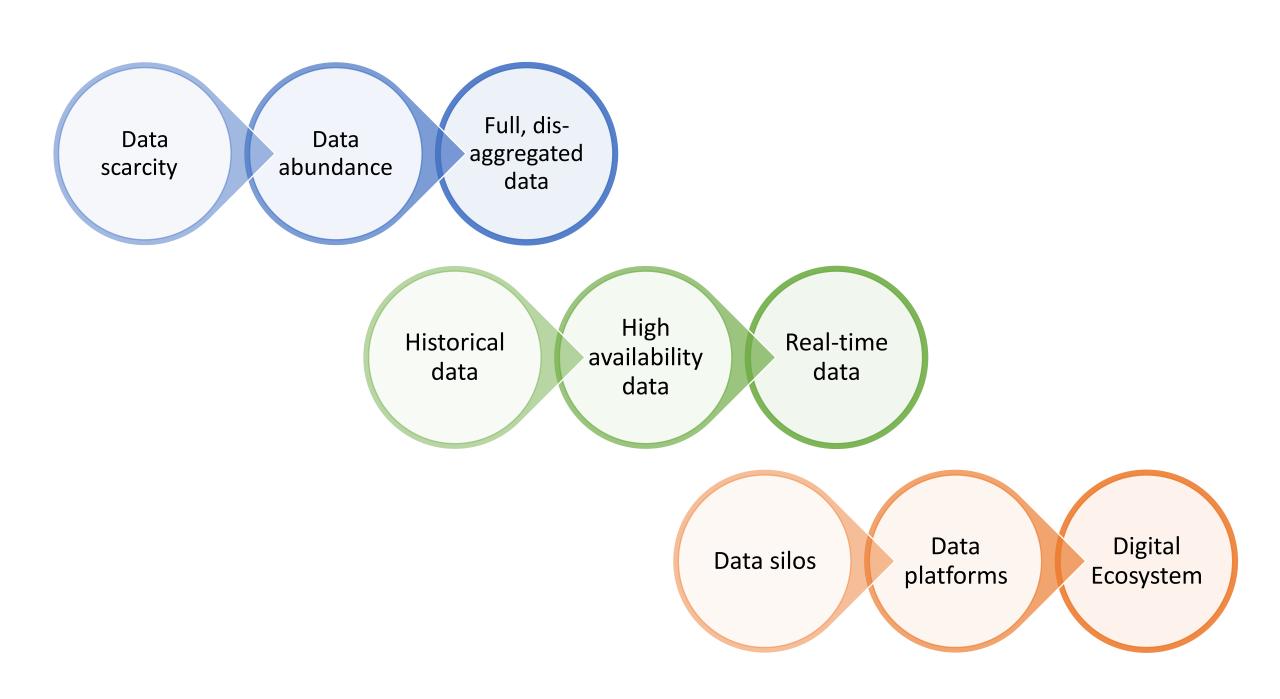
### Asia Pacific

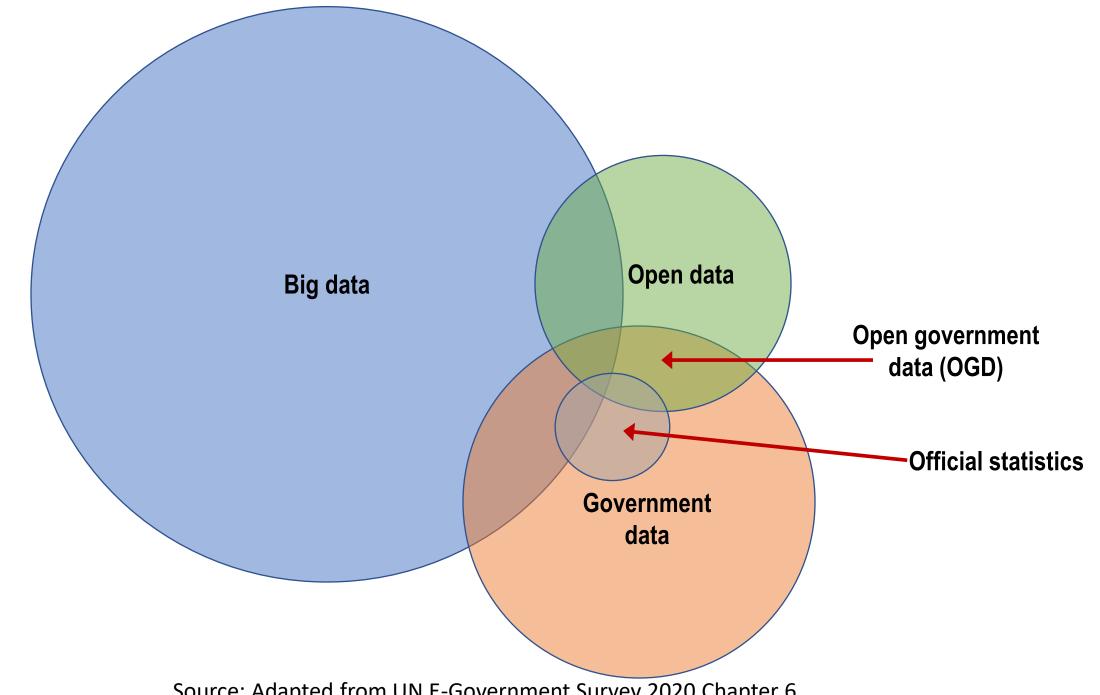
Bangladesh Bhutan Cambodia Lao PDR \*Samoa

\*Vanuatu

### Africa

Ethiopia Rwanda \*Sierra Leone \*Tanzania





Source: Adapted from UN E-Government Survey 2020 Chapter 6

#### **DIKW Pyramid**

Data → Information → Knowledge → Wisdom

Wisdom (applied knowledge)

Knowledge (organised information)

Information (linked elements)

**Data** (abstracted elements)

# Data in Digital Government and Digital Transformation Sources → Aggregation → Exploration → Analytics → Policymaking

Policymaking
Decision Making
(data-centric)

#### **Data Analytics**

(machine learning; algorithms and modelling)

#### **Data Exploration**

(open data portals; data visualization; hackathons)

#### **Data Aggregation**

(preprocessing; datawarehouse; data lakes; data sharing; linked data; interoperability; data exchange)

#### **Data Sources**

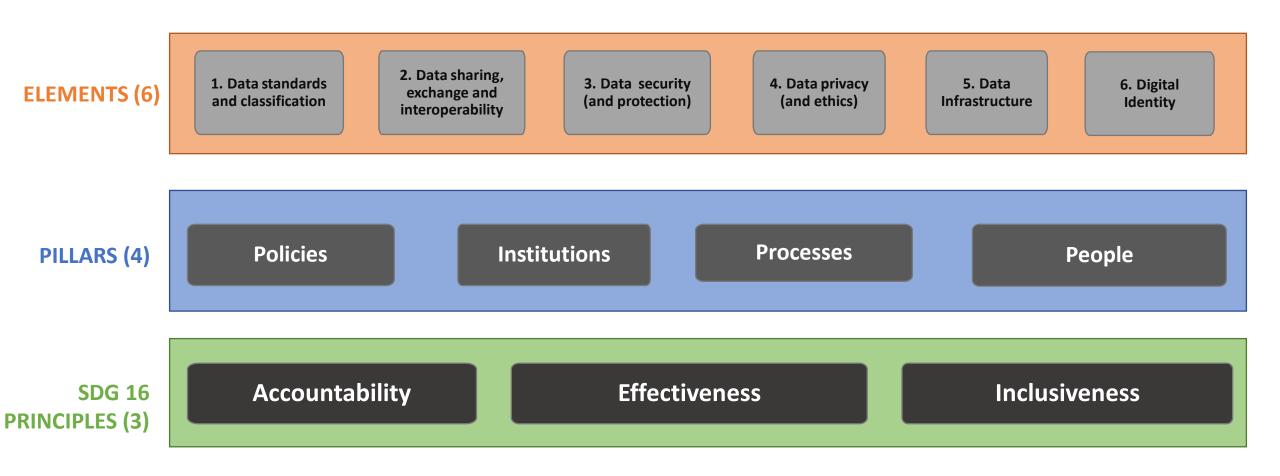
(small and big data; conventional and new data; informational, transactional, operational)

(Source: 2020 UN E-Government Survey; chapter 6)

## **UN DESA's Data Governance Approach**

- Supporting the achievement of the Sustainable Development Goals (SDGs)
- From whole-of-government to whole-of-society
- Based on three (3) SDG principles, four (4) pillars and six (6) elements
- Emphasis on policies, institutions, processes and people
- Across different levels (multilevel governance)
- Building data literacy, at institutional and individual levels

### **UN DESA's National Data Governance Framework**



### P1 Policies

 The "single-source-of-truth", "data-once only" or "once-only principle" ensures that individual users and businesses provide data to public administration only once, while public bodies exchange this data when requested and in compliance with the relevant regulations.

#### Enablers / Barriers of Once-Only Principle SCOOP4C



#### **Evidence-Based Policymaking Act of 2018, United States of America**

While evidence-based policymaking is not new and is widely supported by academic research, it is still uncommon to find a national policy or strategy supporting this approach.



In 2016, the United States Commission on Evidence-Based Policymaking was created to explore ways in which the Government could make better use of its data to inform future government decisions. The Commission spent a year and a half in deliberations and fact-finding and in September 2017 issued a report in which priority was assigned to expanding access to data, ensuring privacy, and strengthening the capacity of the Government to generate and utilize evidence to evaluate budgetary spending on programmes affecting health, education and economic well-being.

The Foundations for Evidence-Based Policymaking Act (the Evidence Act) received congressional approval in 2017 and 2018 and was signed into law by the President in January 2019 to facilitate the implementation of a number of the Commission's recommendations. Shortly thereafter, the Federal Data Strategy was issued by the White House Office of Management and Budget (OMB) as a second implementation mechanism, identifying data as a strategic asset and outlining the principles and practices to which federal agencies would have to adhere in the execution of the Act. The OMB



published multiple guidance documents to help agencies address some of the Commission's recommendations; included in the documents were provisions for designating evaluation officers, appointing chief data officers, identifying statistical experts, developing "learning agendas", and incorporating new actions into annual budget and performance plans. For agencies that already have data strategies in place, such as the Department of Health and Human Services, the Evidence Act constitutes an additional mandate to strengthen capacity for using data for evidence-building purposes.

The Evidence Act establishes new expectations for open data, data inventories, and data management. It also reinforces the longstanding Confidential Information Protection and Statistical Efficiency Act, a strong privacy and confidentially law that compels the Government to take all necessary steps to protect data when confidentiality has been promised. A national secure data service (recommended by the Commission but not yet established) is expected to improve data access and will also strengthen privacy protection.

Sources: United States, Foundations for Evidence-Based Policymaking Act of 2018, H.R. 4174 - 115th Congress (2017-2018), available at <a href="https://www.congress.gow/bill/115th-congress/house-bill/4174">https://www.congress.gow/bill/115th-congress/house-bill/4174</a>; see also J. Heckman, "Federal Data Strategy to impact all feds, not just 'data plans for data wonks'", Federal News Network (2020), available at <a href="https://strategy.data.gov/">https://strategy.data.gov/</a>; and Data Coalition (2020), available at <a href="https://www.datacoalition.org/two-years-of-progress-on-evidence-based-policymaking-in-the-united-states/">https://www.datacoalition.org/two-years-of-progress-on-evidence-based-policymaking-in-the-united-states/</a>.

### **P2 Institutions**

<u>Instituional arrangement to support data governance and data leadership</u> are essential for the implementation of the national data strategy and the data governance framework. Often required within this context is an institutional review that could transform the way agencies in all sectors and at all levels effectively deploy government data as a strategic asset.

Source: UN E-government Survey, chapter 6

#### **Examples:**

- 1. National Data Advisory Council (Australia)
- 2. National Data Governance Committee (Ethiopia)
- 3. National Data Bureau (China)
- 4. Smart Nation and Digital Government Office; Government Data Architecture (Singapore)

# P3 People

<u>Instituional arrangement to support data governance and data leadership</u> are essential for the implementation of the national data strategy and the data governance framework. Often required within this context is an institutional review that could transform the way agencies in all sectors and at all levels effectively deploy government data as a strategic asset.

Source: UN E-government Survey, chapter 6

#### **Examples:**

- 1. Chief Data Officer: individuals with leadership role in data governance and data strategies
- 2. <u>Data stewards</u>: individuals or teams within data-holding organizations who are empowered to proactively initiate, facilitate and coordinate data collaboratives toward the public interest.
- 3. Others: Data Bureau, Data Leads, Data Officers, Data Focal Points

### **P4 Processes**

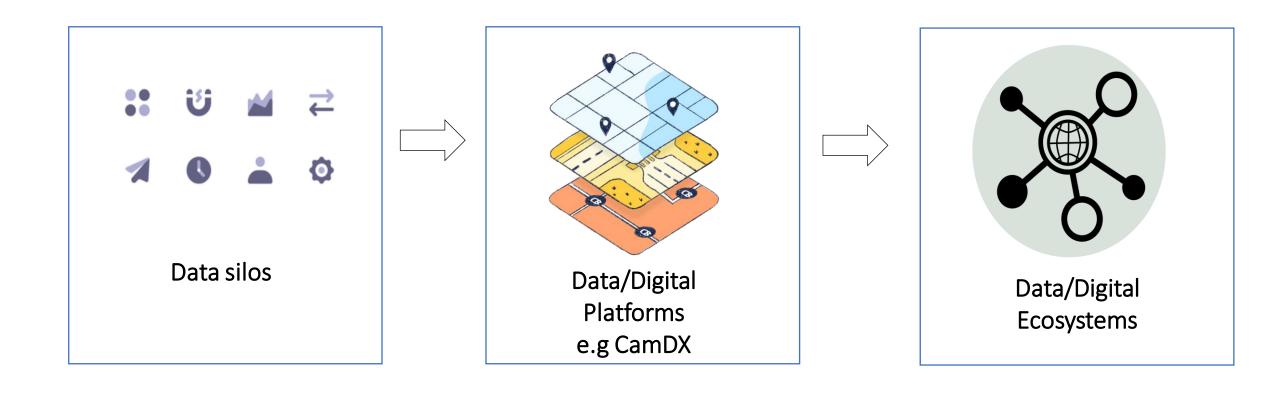
- 1. Data is not only an **input**; but also **output** of e-government
- Data is used in **both front- and back-office** of egovernment
- **3. Some data are used; many are not,** including those generated through e-services (administrative)
- Some data are not used **optimally**; some data are also **misused**
- 5. While there is a **lack of data**, there is also **data and information overload**
- 6. Government's quadrupole role: **producer, consumer,** regulator, and platform provider (enabler)



(Source: 2020 UN E-Government Survey; chapter 6)

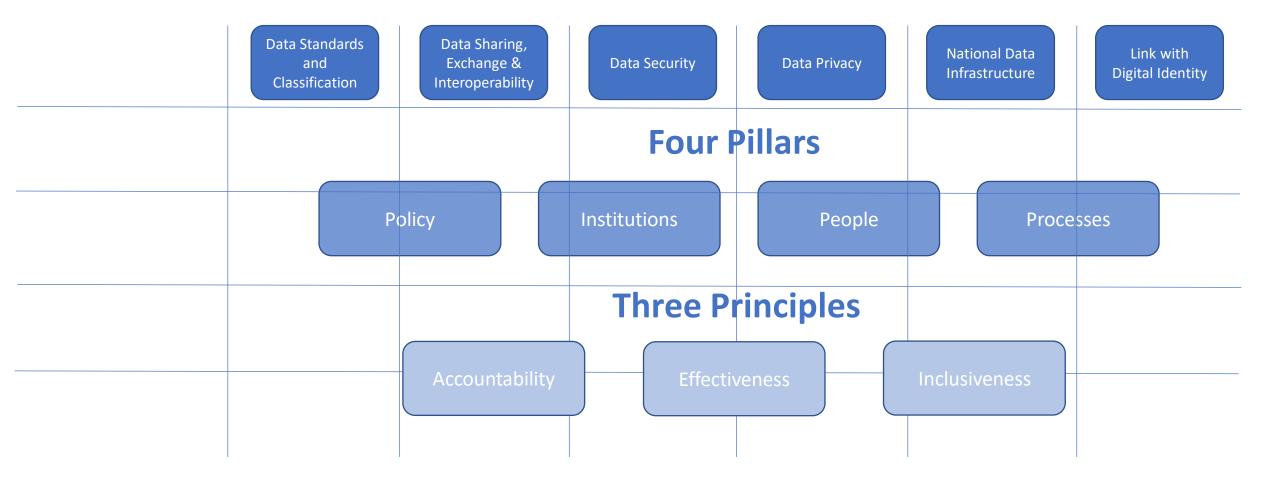
## **P4 Processes**

From data silos to data platforms, to data ecosystems





### **Six Elements**



# Instructions

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www.menti.com

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Or use QR code



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