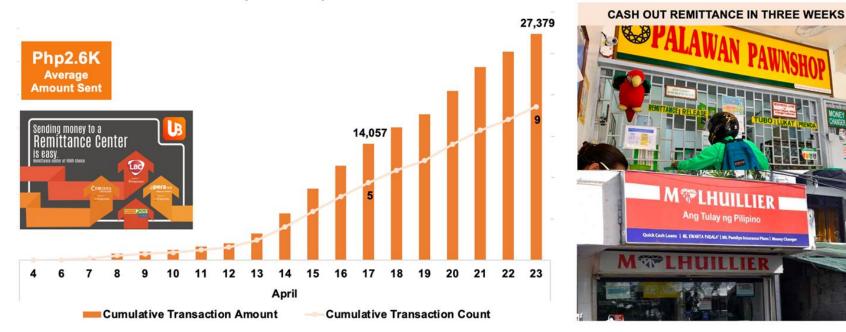




Digital Transformation Roadmap for Public Finance Management

MARIA FRANCESCA M. DEL ROSARIO Chief Information Officer **3rd PAGBA Quarterly Seminar and Meeting** Cebu city, Waterfront Hotel 15 November 2023



Cash Out Remittance (in Thousands)



HOME ABOUT THE SC - COURT ISSUANCES ORAL ARGUMENTS MEDIA RELEASES BAR ADMISSIONS - LINKS -

Search here...

SC, UnionBank Sign MOA on Judiciary ePayment Solution March 18, 2021

The Supreme Court of the Philippines signed a Memorandum of Agreement with Union Bank of the Philippines (UnionBank) on March 15, 2021 for Unionbank to develop an ePayment solution for the Judicary.

The Judiciary eRayment Solution will involve an application designed to provide the courts the options to receive fees and payments digitally from litigants, their counsels and representatives in a safe, secure, real-time, 24/7 basis from anywhere at their convenience.

Led by Chief Justice Diodado M. Peraita during the signing of the MOA, the Project will be greatly beneficial to the courts and the general public as it will streamline the processes on the assessment and payment of court fees. Court Administrator Jose Midas P. Marquez and UnionBank Band Vice-Chair Dr. Justo

Latest News

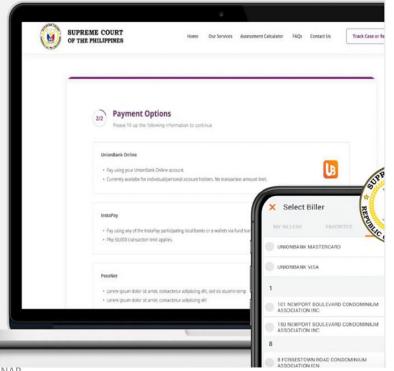
Chief Justice Gesmundo Reiterates Plan for the Judiciary before Philippine Bar Association June 18, 2021

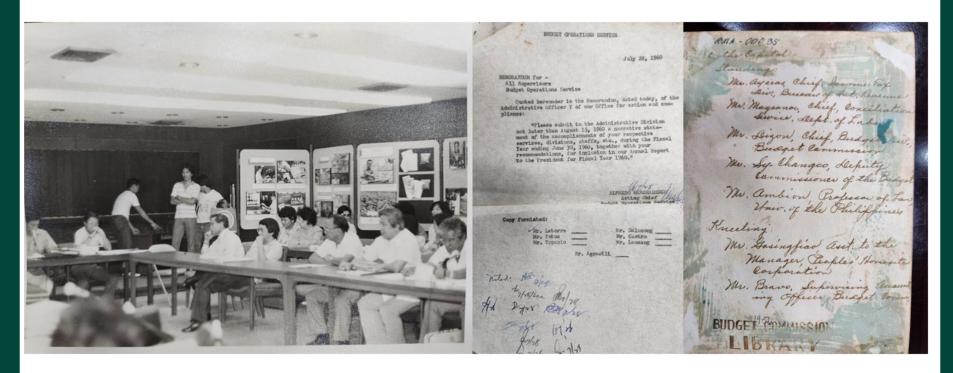
Retired CJ Peralta Lectures on Rules of Civil Procedure June 17, 2021

SC Upholds MMDA's Authority; Dismisses Petition for Injunction Against Traffic Scheme June 17, 2021



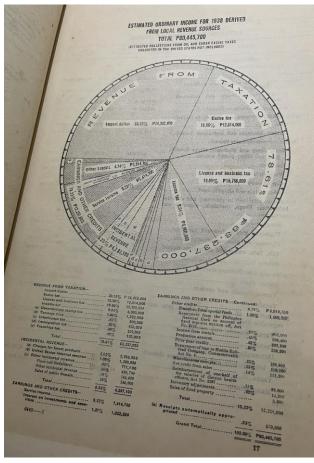
Payment Gateway Aggregator for all Legal Fees from bar takers, lawyers, law firms and litigants













Agenda

1 2022 GovTech Maturity Index

- 2 Designing Public Finance Management Architecture
- 3 RegTech / GovTech

our ______ will be ______ solved."

... but which problem? ... but which technology? State of GovTech around the world, by GTMI groups, 2022

A B С D No Data GTMI Econ 35% 69 A 46 23% В C 53 27% 15% Average GTMI Scores GTMI 0.552 0.575 0.649 PSDI 0.449 DCFI GTE 0.536



The goal is for the **Philippines** to be **blue** in the next 5 years



Source: World Bank data (198 economies).

Note: GTMI = GovTech Maturity Index, CGSI = Core Government Systems Index, PSDI = Public Service Delivery Index, DCEI = Digital Citizen Engagement Index, GTEI = GovTech Enablers Index.

CGSI

 captures the key aspects of a whole of-government approach, including government cloud, interoperability framework, and other platforms

Ind	GTMI Key indicators					
	Core Government Systems Index (CGSI)					
1-1	Is there a cloud platform available for all government entities?					
I-2	Is there a government enterprise architecture framework?					
I-3	Is there a government interoperability framework?					
1-4	Is there a government service bus platform?					
I-5 Is there an operational FMIS in place to support core PFM functions?						
I-6	Is there a TSA supported by FMIS to automate payments and bank reconciliations?					
1-7	Is there a Tax Management Information System in place?					
I-8 Is there a Customs Management Information System in place?						
I-9 Is there a Human Resources Management Information System with self-ser						
I-10	Is there a Payroll System (MIS) linked with HRMIS?					
I-11	Is there a Social Insurance system providing pensions and other SI programs?					
I-12	Is there an e-Procurement portal?					
I-13	Is there a Debt Management System (DMS) in place? (Foreign and Domestic debt)?					
I-14	Is there a Public Investment Management System (PIMS) in place?					
I-15	Is there a government Open-Source Software (OSS) policy/action plan for public sector?					
I-16	UN Telecommunication Infrastructure Index (TII)					
I-17	Does government have a national strategy on disruptive / innovative technologies?					



PSDI

 maturity of online public service portals, with a focus on citizen centric design and universal accessibility.

Public Service Delivery Index (PSDI)

- I-18 UN Online Service Index (OSI)
- I-19 Is there an online public service portal? (Also called "One-Stop Shop" or similar)
- I-20 Is there a Tax online service portal?
- I-21 Is e-Filing available for tax and/or customs declarations?
- I-22 Are e-Payment services available?
- I-23 Is there a Customs online service portal (Single Window)?
- I-24 Is there a Social Insurance/Pension online service portal?
- I-25 Is there a Job portal?
- I-26 Is there a digital ID that enables remote authentication for (fully) online service access

DCEI

 public participation platforms, citizen feedback mechanisms, open data, and open government portals

Digital Citizen Engagement Index (DCEI)

- I-27 UN E-Participation Index (EPI)
- I-28 Is there an Open Government web site / portal?
- I-29 Is there an Open Data portal?
- I-30 Are there national platforms that allow citizens to participate in policy decision-making?
- I-31 Are there government platforms that allow citizens to provide feedback on service delivery?
- I-32 Does the government publish its citizen engagement statistics and performance regularly?



GTEI

 captures strategy, institutions, laws and regulations, digital skills, and innovation policies and programs, to foster GovTech

	ovrieen enablers maex (orlei)
-33	Is there a government entity focused on GovTech (digital transform, whole-of-government)?
-34	Is there a dedicated government entity in charge of data governance or data management?
-35	Is there a GovTech / digital transformation strategy?
-36	Is there a whole-of-government approach to public sector digital transformation?
-37	Are there RTI laws to make data/information available to the public online or digitally?
-38	Is there a data protection / privacy law?
-39	Is there a data protection authority?
-40	Is there a national ID (or similar foundational ID) system?
-41	Are records in the national ID system stored in a digitized (electronic) format?
-42	Is there a digital signature regulation and PKI to support service delivery?
-43	ITU Global Cybersecurity Index (GCI)
-44	UN Human Capital Index (HCI)
-45	Is there a government strategy / program to improve digital skills in the public sector?

GovTech Enghlere Index (GTEI)

- I-46 Is there a strategy and/or program to improve public sector innovation?
- I-47 Is there a government entity focused on public sector innovation?
- I-48 Is there a government policy to support GovTech startups and private sector investments?



The Philippines scored highest in Public Service Delivery Index (**PSDI**) and GovTech Enablers Index (**GTEI**) with the rank of **A** and the rest of the indicators with a rank of **B**.

A - GovTech Leaders B - Significant Focus C - Some Focus D - Minimal Focus

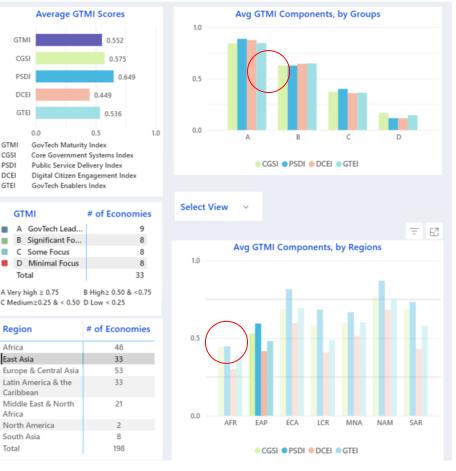
GovTech Maturity Index (GTMI) Data Dashboard GTMI at-a-glance **GTMI Groups** Region Projects Economy Indicators Trends GTMI data The GTMI Groups page presents the maturity of four GovTech focus areas in 198 economies around the world. The GTMI score is the simple average of the normalized scores of four components (CGSI, PSDI, DCEI, and GTEI). Project data State of Core Government Systems, by GTMI Groups, 2022 ∓ 63 Philippine Sea Economy Philippines GTMI 0.733 (B) 2-CGSI 0.729 (B) PSDI 0.826 (A) DCEI 0.577 (B) GTEI 0.798 (A) Income Level Lower Middle Fragility/Conflict -# of Projects 16 P)III C Mapbox Improve this map | C Mapbox C OpenStreetMap Improve this map 2023 3RD PAGBA SEMINAR



The Philippines scored highest in Public Service Delivery Index (PSDI) and GovTech Enablers Index (GTEI).

Public Service Delivery Index (PSDI) - PH as part of the B group based on Avg GMTI Components

GovTech Enablers Index (GTEI) - PH as part of the East Asia and the **Pacific region**





GTMI

CGSI

PSDI

DCEI

GTEI

A

B

С

D

Africa

Africa

Total



- 1 2022 GovTech Maturity Index
- **2** Designing Public Finance Management Architecture
- 3 RegTech / GovTech



STRATEGY



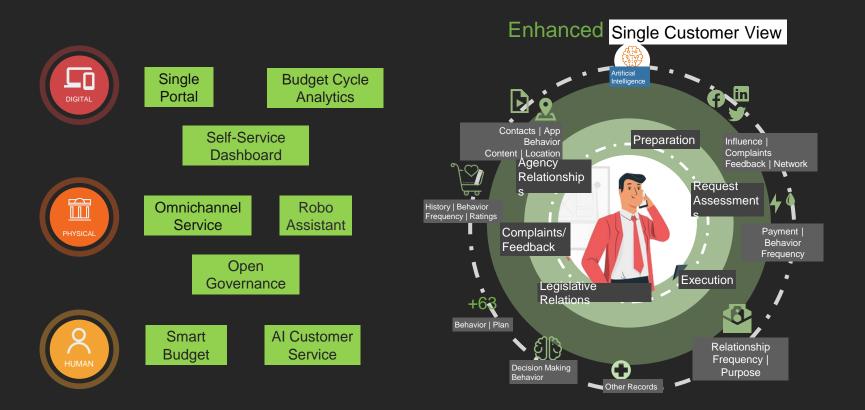
VOICE OF GOVERNANCE

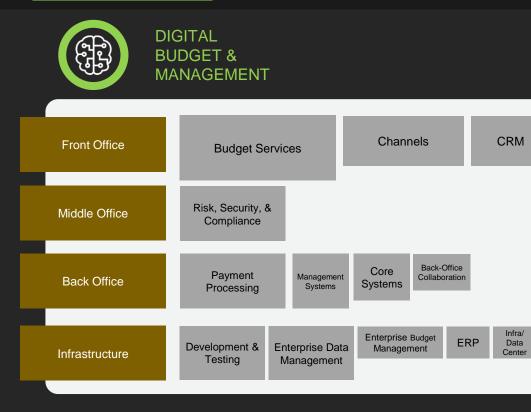
GOVTECH TRENDS

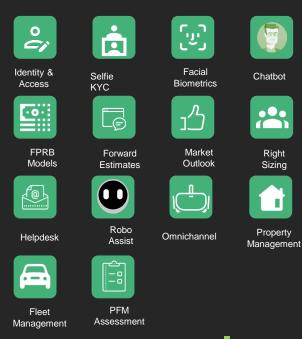




Information and Communications Technology Group

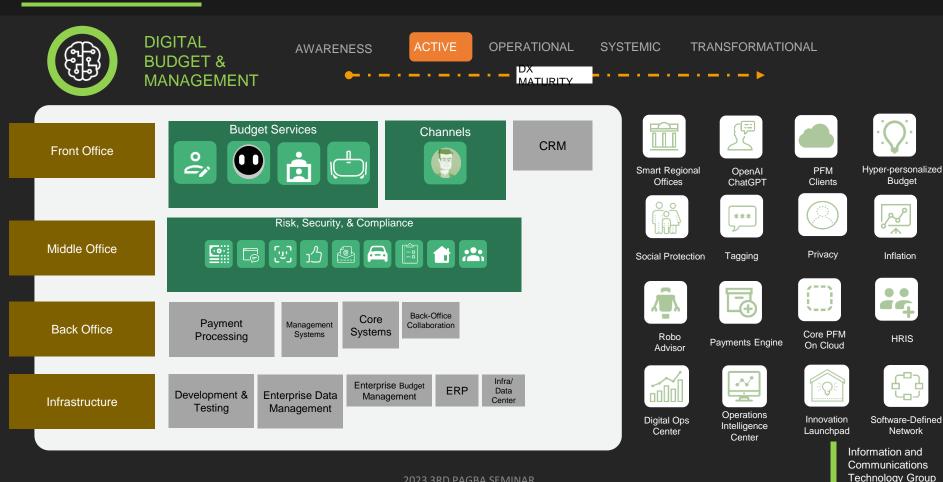




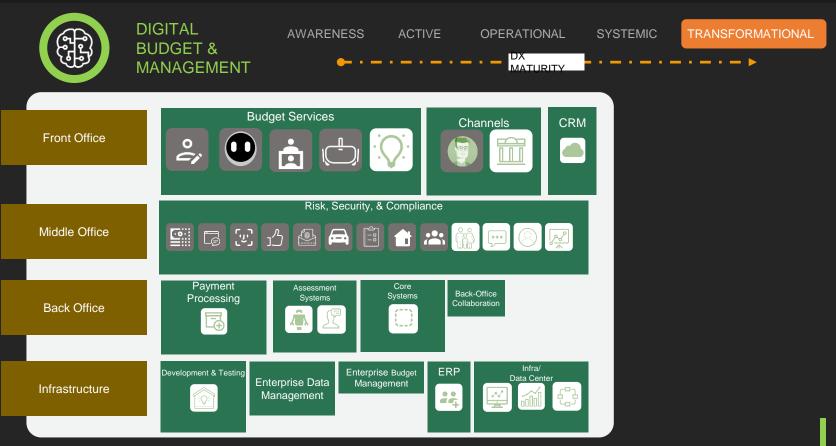


Information and Communications Technology Group

Understand More With Data



Understand More With Data



Understand More With Data





FROM CHALLENGES

- High **logistic cost** on delivering hard copy of documents to DBM-CO/RO
- Lost documents (risk) due to manual submission and approval routing

3 Manual follow-ups on submission updates through phone or email

Delayed communications on request approvals, budget releases, reports

Labor-intensive **validations** based on previous documentations in hard copies

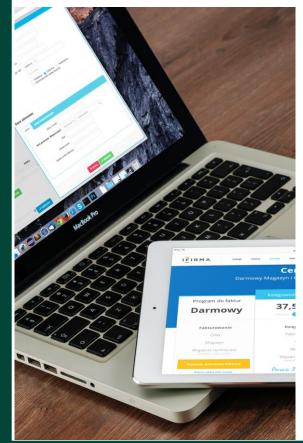
TO OPPORTUNITIES

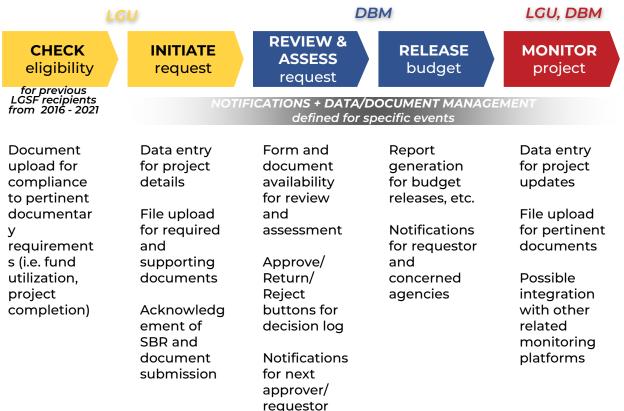
Zero delivery cost through online document submission and acknowledgement

Secure & centralized document copies *in online document management platform*

Automatic project updates through defined notifications in the system

System-based eligibility check for previous fund recipients, governance













Design Thinking Workshop with Regional Directors





Unified Accounts Code Structure

> Laying Good Foundation









Data- Driven

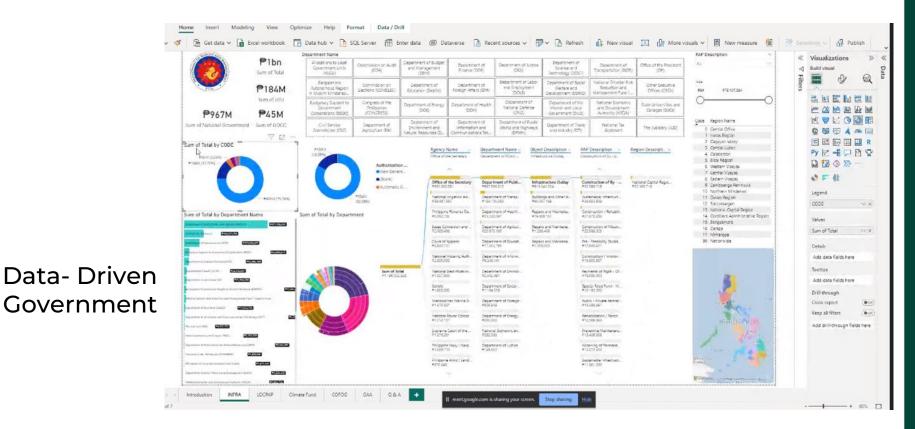
Government





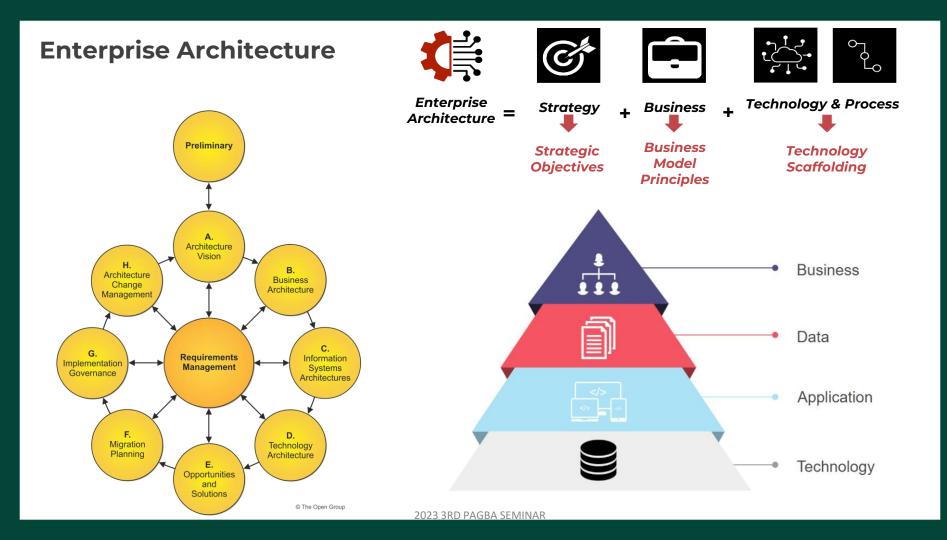






Data Governance Strategy

	Visceral Value							
24/7	360 Customer View	Faster and Better	r Decisions Ir	mprove the Customer Experience	Operational Efficiencies thru Data			
	Veracity and Vaulted							
	Trusted Golden Record							
secure	Data Governance							
(Data Quality Assurance	Master Data Management	Data Catalog & Knowledge Management	Security, Compliance, Privacy	& Implementation & Technology			
T+0	Volume		Variety		Velocity			



Enterprise Architecture

Business Architecture



Application Architecture



Data Architecture



Technology (Infrastructure) Architecture



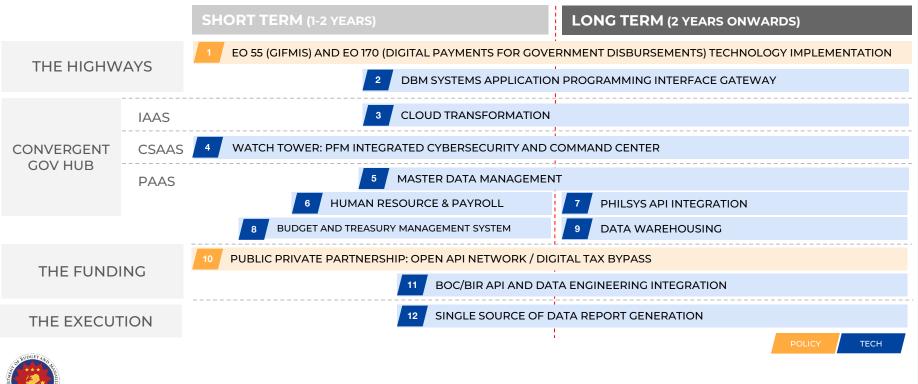
Aligns technology strategy to business strategy Connects enterprise and makes it consumable

Provides fit-forpurpose and easy-touse applications Connects servers, networks and the cloud

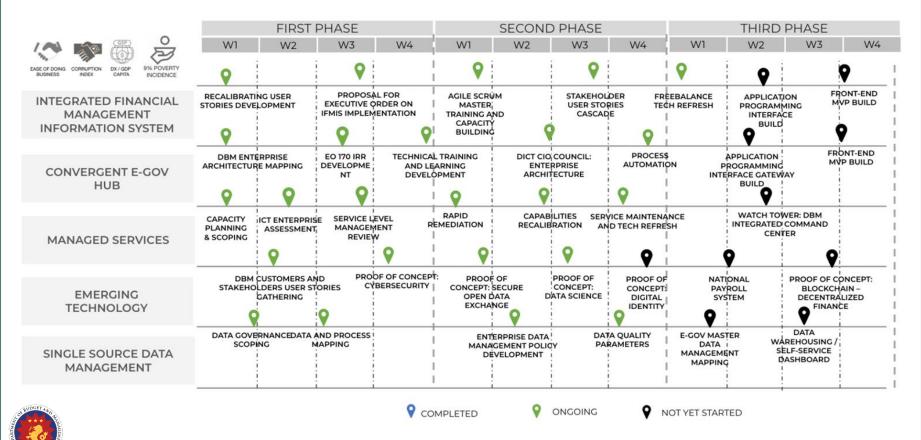


Digital Transformation Roadmap

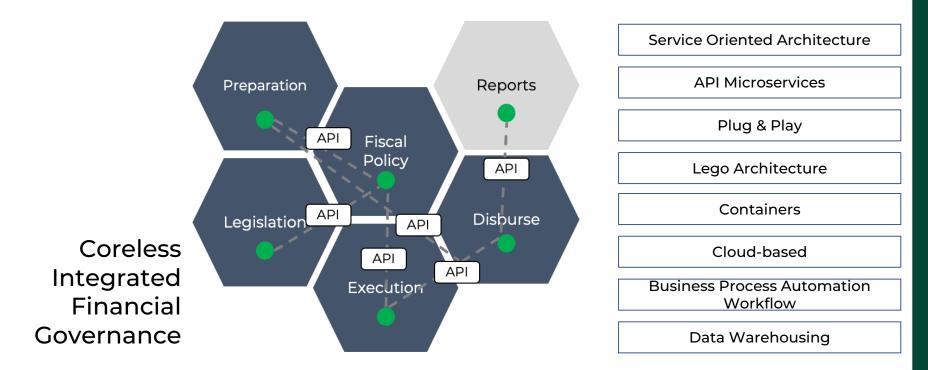




Digital Transformation Roadmap

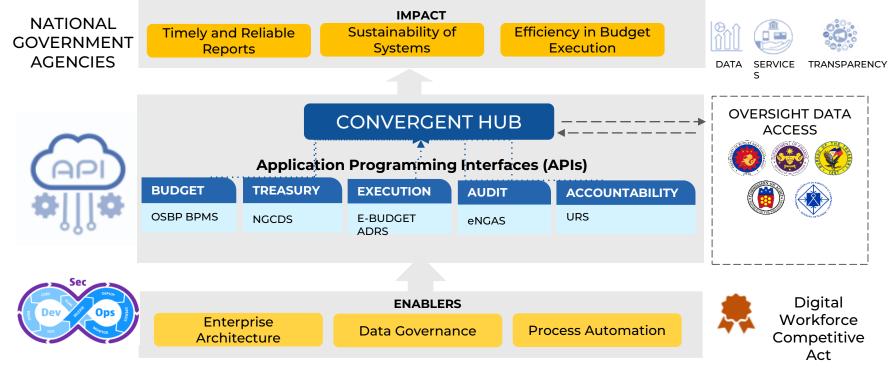


PFM Architecture and Scaffolding



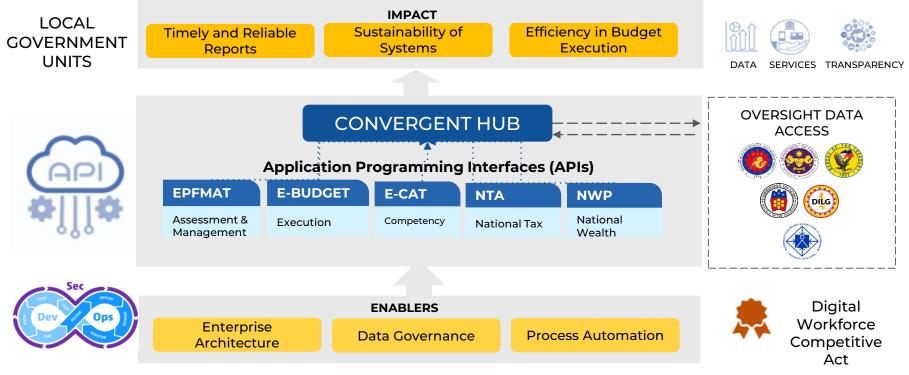


PFM Architecture and Scaffolding

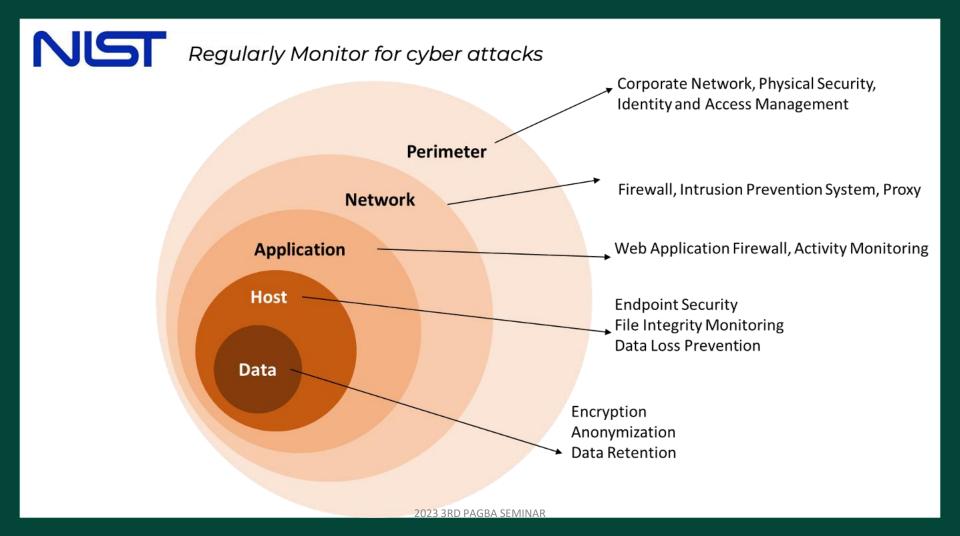




PFM Architecture and Scaffolding





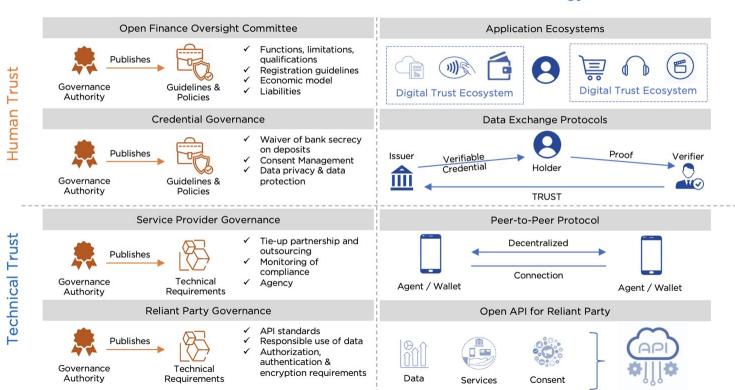


Agenda

- 1 2022 GovTech Maturity Index
- 2 Designing Public Finance Management Architecture
- 3 RegTech / GovTech



GovTech Framework



Governance

Technology

J936

PROJECT MARISSA Authentication of Action Documents



Authentication Process



Application Interface



Cancel

Republic of the Philippines DEPARTMENT OF BUDGET AND MANAGEMENT

Kagawaran ng Pagbabadget at Pamamahala

SARO NUMBER: SARO-ROVI-23-0021652

AMOUNT: 29,160.00

DEPARTMENT: Department of Education (DepEd)

Agency: 001 - Office of the Secretary

Operating Unit: 0906047 - <u>Naile</u> National High School

Purpose: To cover additional Retirement and Life Insurance Premiums (RLIP) requirements of DepEd - Naile National High School

- Name reactorias right sector

Link to Blockchain



Republic of the Philippines NT OF BUDGET AND MANAGE

in ng Pagbabadget at Pamama

SCAN HERE!

DEPARTMENT: Department of Education (DepEd)

SARO-ROVI-23-0021652

Agency: 001 - Office of the Secretary

AMOUNT: 29,160.00

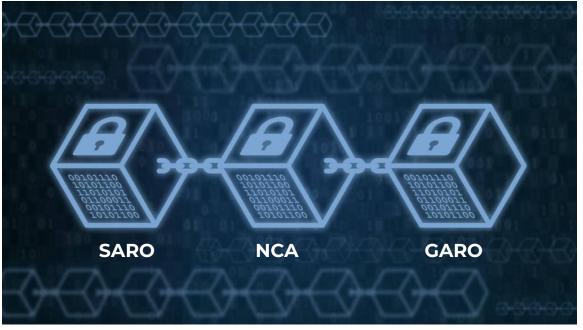
Republic of the Philippines DEPARTMENT OF BUDGET AND MANAGEMENT Kagawaran ng Pagbabadget at Pamamahala SARO NUMBER:

> Operating Unit: 0906047 - <u>Naile</u> National High School

Purpose: To cover additional Retirement and Life Insurance Premiums (RUP) requirements of DepEd - Naile National High School

Link to Blockchain

The application will tokenize SAROs, NCAs, GAROs, and other DBM related documents, representing them as unique digital tokens on the blockchain. This feature ensures the immutability and tamper-proof nature of the documents, establishing a secure and transparent record of their existence and history.



Tokenization:

- Special Allotment Release Order
- Notice of Cash Allocation
- General Appropriations Release Order
- Other DBM Related Documents through Private and Public Blockchain

Action Document Releasing System (ADRS)

ADRS - a webbased application which facilitates the release of approved DBM action documents in digital format directly to the authorized users of recipient agencies.

<u> </u>	of Budget and Management aent Releasing System (ADRS)			🖷 Home 🛛 📽 Admi	in 🔹 📥 Downloads 👻	🔲 Audits 👻	占 mjanerol@dbi	m.gov.ph
udget Year:	Operating Unit: 06 001 0100000	Downloads (Download						
Available On Hold								
Search SARO Details H Org Code	Department	Agency	Operating Unit	SARO N	lumber	Date	Status	Acti
060010100000	Department of Budget and Management (DBM)	Office of the Secretary	Central Office	SARO-BMB-C-22-0	007714 09	-05-2022	APPROVED	۰
060010100000	Department of Budget and Management (DBM)	Office of the Secretary	Central Office	SARO-BMB-C-22-0	007479 08	-31-2022	APPROVED	٠
060010100000	Department of Budget and Management (DBM)	Office of the Secretary	Central Office	SARO-BMB-C-22-0	006970 08	-17-2022	APPROVED	۰
060010100000	Department of Budget and Management (DBM)	Office of the Secretary	Central Office	SARO-BMB-C-22-0	006969 08	-17-2022	APPROVED	٠
060010100000	Department of Budget and Management (DBM)	Office of the Secretary	Central Office	SARO-BMB-C-22-0	006274 08-	-03-2022	APPROVED	۰
060010100000	Department of Budget and Management (DBM)	Office of the Secretary	Central Office	SARO-BMB-C-22-0	006273 08	-03-2022	APPROVED	٠
060010100000	Department of Budget and Management (DBM)	Office of the Secretary	Central Office	SARO-BMB-C-22-0	006272 08	-03-2022	APPROVED	•
060010100000	Department of Budget and Management (DBM)	Office of the Secretary	Central Office	SARO-BMB-C-22-0	006271 08	-03-2022	APPROVED	٥
060010100000	Department of Budget and Management (DBM)	Office of the Secretary	Central Office	SARO-BMB-C-22-0	006270 08	-03-2022	APPROVED	٠

DEPARTMENT OF BUDGET AND MANAGEMENT General Solano Street, San Miguel, Manila SPECIAL ALL OTMENT RELEASE ORDER For Fiscal Year 2022 ORG CODE Department Department of Public Works and Highways (DPWH) Office of the Secretary Agency 18 001 0100000 (B5702) Operating Unit : Central Office Locality. 01 1 04 102 Funding Source : Regular Agency Fund, Automatic Appropriations Retirement and Life Insurance Premiums Purpose To cover the additional FY 2022 Retirement and Life Insurance Premiums requireme MFO/PAP Particulars **Object Code** Amount Code General Administration and Support 100000100001000 General Management and Supervision 31,451,000 Parsonnal Sanicas 50100000 00 31,451,000 TOTAL 31,451,000 Amount in words ** THIRTY-ONE MILLION FOUR HUNDRED FIFTY-ONE THOUSAND PESOS ONLY *** Notes The allotment herein released shall be valid for obligation until December 31, 2022 The allotment herein authorized shall be used solely for the purposes indicated and disbursements therefrom shall be made in accordance with existing budgeting, accounting, and auditing rules and regulations. It is the primary responsibility of the head of the Department, Bureau or Agency concerned to keep expenditures within the limits of the amount allotte Signed By: Amenah F. Pangandaman Department Secretary C=PH, O=DBM, I-CN: Gov-Signing CA Date: Sectember 30, 2022 lowing - up, pis, ote barcode #SARO-2022-A01062 AMENAH F. PANGANDAMAN Secretary SARO-BMB-A-22-0008953 Page 1 of 1 page(s) Date of Issu September 30, 2022 060010100000 Department of Budget and Management (DBM) 060010100000 Department of Budget and Management (DBM)

Special Allotment Release Order

A specific authority issued to identified agencies to incur obligations not exceeding a given amount during a specified period for the purpose indicated.

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Downloads - NCA - ANCAI List (Download Facility)

Agency	Operating Unit	NCA Number	Date	Download
Office of the Secretary	Central Office	NCA-BMB-C-22-0009729	08-12-2022	±+
Office of the Secretary	Central Office	NCA-BMB-C-22-0008418	07-13-2022	±+
Office of the Secretary	Central Office	NCA-BMB-C-22-0007212	06-20-2022	±*
Office of the Secretary	Central Office	NCA-BMB-C-22-0005805	05-26-2022	±*
Office of the Secretary	Central Office	NCA-BMB-C-22-0005544	05-20-2022	±*
Office of the Secretary	Central Office	NCA-BMB-C-22-0002976	03-21-2022	±+
Office of the Secretary	Central Office	NCA-BMB-C-22-0002075	03-03-2022	±+
Office of the Secretary	Central Office	NCA-BMB-C-22-0000460	01-03-2022	±+

Notice of Cash Allocation

Cash authority issued by the DBM to central, regional and provincial offices and operating units through the authorized government servicing banks of the MDS, to cover the cash requirements of the agencies.

Benefits & Impact

-

Project Objectives: Enhanced Document Security

Transparency

To enhance the security and integrity of Special Allotment Release Order, Notice of Cash Allocation, General Appropriations Release Order, and other related documents.

The project aims to enable transparent and efficient tracking of the lifecycle of SAROs, NCAs, GAROs, and other related documents.

Interoperability

The blockchain project will facilitate interoperability and collaboration among different government agencies and departments involved in the budget allocation and financial management process

Public Trust

Leveraging a public blockchain component, the project aims to enhance public accountability and trust in the DBM processes.

Features of the Project



Document Tokenization

Document Verification



Document Tracking and History with QR Printing per Docs



Secured Document Storage



Workflow Management



Notification and Alerts



Public Transparency Portal



User Access Permission



Public & Private Blockchain Mode

FUTURE DEVELOPMENTS





IMF regional workshop on Digital Solutions for Public Financial Management in Vietnam comprises 68% percent of women representation in the areas of technology and public finance! We commemorate International Women's Day with them contributing to spaces where women can lead in digitalization and public finance. Our workshop is supported by the Bill & Melinda Gates Foundation and SECO **Economic Cooperation and** Development













Digital Transformation Roadmap for Public Finance Management

MARIA FRANCESCA M. DEL ROSARIO Chief Information Officer **3rd PAGBA Quarterly Seminar and Meeting** Cebu city, Waterfront Hotel 15 November 2023