Trends in IFMIS Modernization: Advanced Analytics & Interoperability

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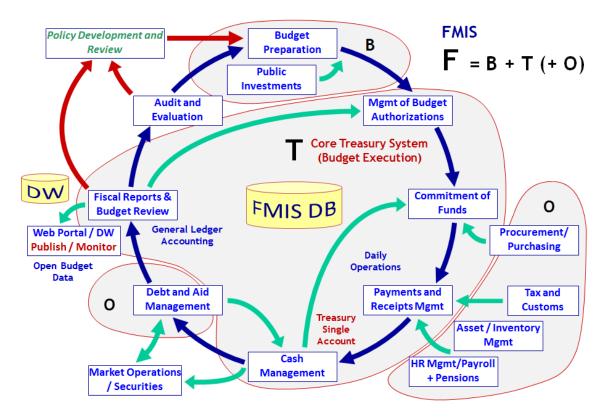
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IFMIS & Advanced Analytics

Core Financial Management Information Systems (FMIS) can be broadly defined as a set of automation solutions that enable governments to plan, execute and monitor the budget.

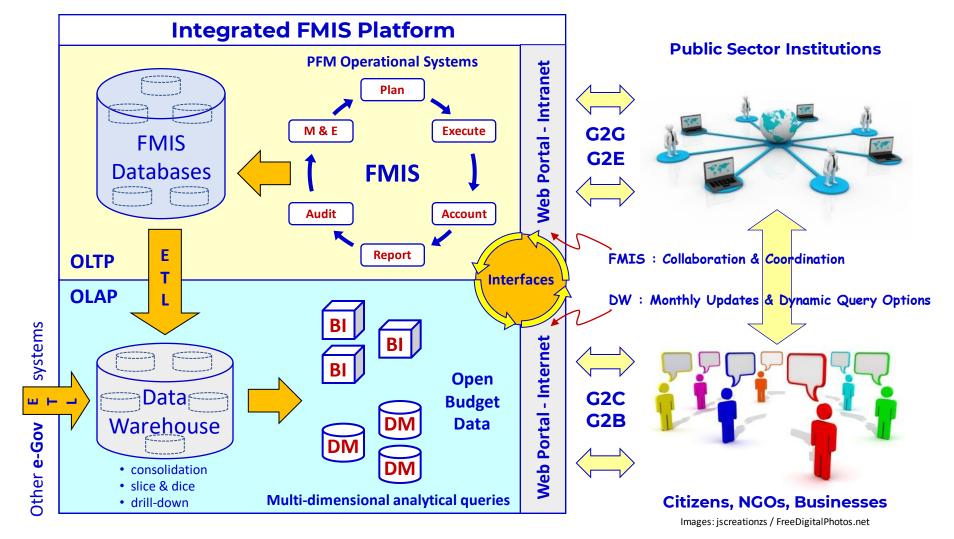
> Core FMIS = OLTP IFMIS = OLTP + OLAP

Core FMIS functional modules and interfaces



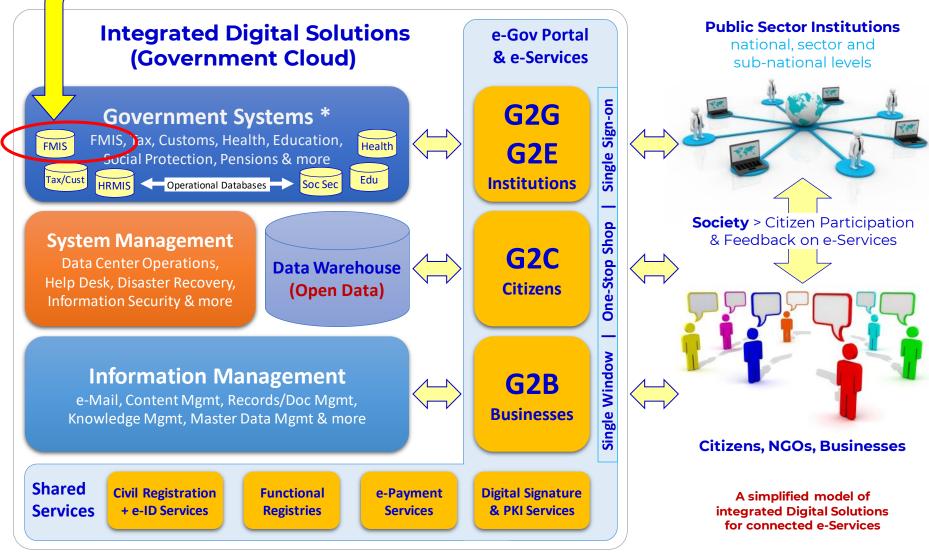
Integrated FMIS (or IFMIS) combine core FMIS modules (OLTP) with powerful Data Warehouse (DW) capabilities and multi-dimensional data analysis tools (OLAP) for effective planning, decision support, service delivery, and performance monitoring.

Goals > Sustainable public resource management + Effective public service delivery + Open and accountable government



What is IFMIS?

IFMIS is an Integral Part of Digital Government



* Government Systems cover the integration (interconnectivity & interoperability) of sector applications, back-office systems, as well as the improvement of institutions, capacity, regulations, processes, information management, and more (National Enterprise Architecture, e-Gov Interoperability Framework, Single Window, and One-Stop-Shops).

Images: jscreationzs / FreeDigitalPhotos.net

OLAP & Business Intelligence

Business Intelligence (BI) refers to the technologies and strategies involved in collecting and analyzing data from internal and external systems to provide a detailed view of budget performance.

Using reports, dashboards and query tools, historical data can be analyzed, and custom reports can be generated. BI is a powerful tool providing real-time access to data to support decision-making.

Online Analytical Processing (OLAP) is

technology for performing high-speed complex queries or multidimensional analysis on large volumes of data in a data warehouse, data lake or other data repository.

OLAP is used in BI, decision support, and a variety of forecasting and reporting applications.

CRM DATA ERP WAREHOUSE LOB Extract Transform Load VS. CRM DATA LAKE ERP Extract Load Transform

ETL (Extract, Transform and Load) has been the most used methodology for carrying out data integration processes since the 1970s. However, new demands in terms of volume, velocity and variety in data management have led to the emergence of a new approach to the traditional ETL process: ELT

Source: Microsoft

Advanced Analytics (AA) uses Data Science beyond traditional business intelligence (BI) methods, to make predictions or generate recommendations.

AA techniques include machine learning, pattern matching, forecasting, visualization, semantic analysis, simulation, sentiment analysis, deep learning/neural networks, and more.

Business Intelligence Advanced Analytics What happened? Why did it happen? When? Will it happen again? Answers the What will happen if we change X? Who? questions: What else does the data tell us that we never How many? thought to ask? Reporting (KPIs, metrics) Statistical or quantitative analysis Automated monitoring and alerting (thresholds) Data mining Dashboards Predictive modeling Includes: Scorecards Multivariate testing OLAP (cubes, slice and dice, drilling) Big data analytics Ad hoc query Text analytics Operational and real-time BI

Business Intelligence vs. Advanced Analytics

BI is focused on historical data to identify what has happened and why. It's a reactive, rearview mirror approach.

AA takes a proactive, forward-looking approach that extrapolates data to forecast what could happen and how various actions might alter an outcome.

Using GTMI to track IFMIS trends & interoperability

What is GTMI?



GovTech Maturity Index (GTMI) measures the state of four GovTech focus areas in 198 economies using 48 key indicators to inform operations, research & analytics



Core Government Systems Index (CGSI) 17 indicators

Public Service Delivery Index (PSDI) 9 indicators

Digital Citizen Engagement Index (DCEI) 6 indicators

> **GovTech Enablers Index (GTEI)** 16 indicators

Target users: Government officials, World Bank teams, and practitioners involved in digital transformation



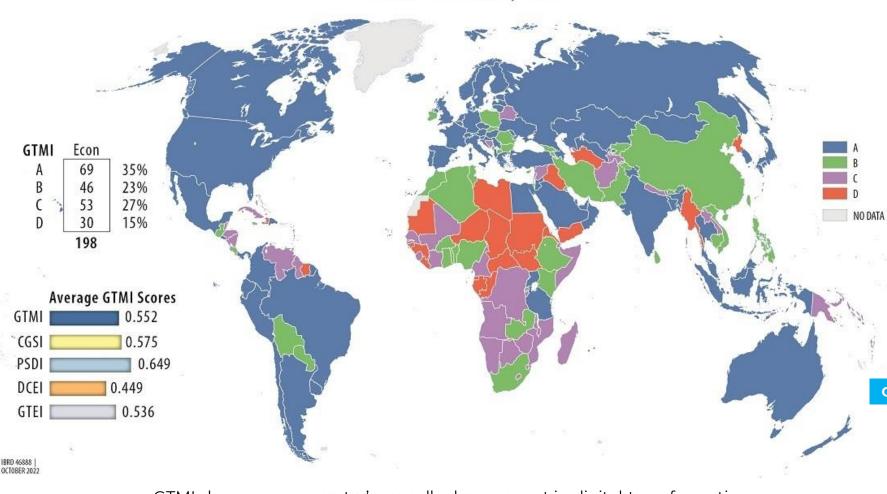
offering a more enjoyable journey

G***VTech** Putting people first

2022 GTMI: International Outlook

There are 154 established Digital Government/GovTech entities around the world, and **good practices are highly visible in 69 economies** out of 198.

2022 GovTech Maturity Index



2020 GTMI is based on remotely collected data

2022 version is mainly based on online survey data provided by government officials

Based on the GTMI component scores, each economy is grouped into one of four categories (A to D)

Group	Score	СТМІ
Α	0.75-1.00	Very High > GT Leaders
В	0.50-0.74	High > Significant Focus
С	0.25-0.49	Medium > Some Focus
D	0.00-0.24	Low > Minimal Focus

GTMI showcases a country's overall advancement in digital transformation.

GTMI is not intended to create a ranking or assess a country's readiness for or performance of GovTech.

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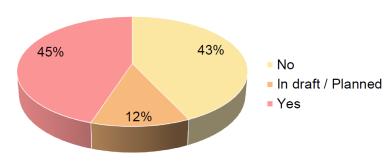
GTMI Key Indicators

Ind	GTMI Key indicators	Points	Weight	Ind	GTMI Key indicators	Points	Weight
	Core Covernment Systems Index (CGSI)			I-25	Is there a Job portal?	0 - 2	W2
1-1	Is there a cloud platform available for all government entities?	0 - 2	W1	I-26	Is there a digital ID that enables remote authentication for (online service access	0/1	E2
I-2	Is there a government enterprise architecture framework?	0 - 2	W1		Digital Citizen Engagement Index (DCEI)		
I-3	Is there a government interoperability framework?	0 - 2	W1	I-27	UN E-Participation Index (EPI)	0 - 1	El
I-4	Is there a government service bus platform?	0 - 2	W1	I-28	Is there an Open Government web site / portal?	0/1	W2
I-5	Is there an operational FMIS in place to support core PFM functions?	0 - 2	W3	I-29	Is there an Open Data portal?	0/1	W2
I-6	Is there a TSA supported by FMIS to automate payments and bank reconciliations?	0 - 2	W3	I-30	Are there national platforms for citizens to participate in policy decision-making?	0/1	WI
I-7	Is there a Tax Management Information System in place?	0 - 2	W3	I-31	Are there gov platforms for citizens to provide feedback on service delivery?	0/1	WI
I-8	Is there a Customs Management Information System in place?	0 - 2	W3	I-32	Does the gov publish its citizen engagement statistics and performance regularly?	0/1	W2
I-9	Is there a Human Resources Mgmt Information System with self-service portal?	0 - 2	W3		GovTech Enablers Index (GTEI)		
I-10	Is there a Payroll System (MIS) linked with HRMIS?	0 - 2	W3	I-33	Is there a gov entity focused on GovTech (digital transform, whole-of-gov?	0 - 2	W1
1-11	Is there a Social Insurance system providing pensions and other SI programs?	0 - 2	WI	I-34	Is there a dedicated gov entity in charge of data governance or data mgmt?	0 - 2	WI
I-12	Is there an e-Procurement portal?	0 - 2	W2	I-35	Is there a GovTech / digital transformation strategy?	0 - 3	W3
I-13	Is there a Debt Management System in place? (Foreign and Domestic debt)?	0 - 2	W3	I-36	Is there a whole-of-government approach to public sector digital transformation?	0 - 2	WI
I-14	Is there a Public Investment Management System (PIMS) in place?	0 - 2	W2	I-37	Are there RTI laws to make data/info available to the public online or digitally?	0 - 2	W3
I-15	Is there a gov Open-Source Software (OSS) policy/action plan for public sector?	0 - 2	W2	I-38	Is there a data protection / privacy law?	0 - 2	W3
I-16	UN Telecommunication Infrastructure Index (TII)	0 - 1	El	I-39	Is there a data protection authority?	0 - 2	W3
I-17	Does gov have a national strategy on disruptive / innovative technologies?	0 - 2	W2	I-40	Is there a national ID (or similar foundational ID) system?	0/1	E2
	Public Service Delivery Index (PSDI)			1-41	Are records in the national ID system stored in a digitized (electronic) format?	0/1	E2
I-18	UN Online Service Index (OSI)	0 - 1	El	I-42	Is there a digital signature regulation and PKI to support service delivery?	0 - 3	W3
I-19	Is there an online public service portal? (Also called "One-Stop Shop" or similar)	0 - 2	W2	1-43	ITU Global Cybersecurity Index (GCI)	0 - 1	El
I-20	Is there a Tax online service portal?	0 - 2	W2	1-44	UN Human Capital Index (HCI)	0 - 1	El
I-21	Is e-Filing available for tax and/or customs declarations?	0 - 2	W2	I-45	Is there a gov strategy / program to improve digital skills in the public sector?	0 - 2	WI
I-22	Are e-Payment services available?	0 - 2	W2	I-46	Is there a strategy and/or program to improve public sector innovation?	0 - 2	WI
I-23	Is there a Customs online service portal (Single Window)?	0 - 2	W2	I-47	Is there a government entity focused on public sector innovation?	0 - 2	WI
I-24	Is there a Social Insurance/Pension online service portal?	0 - 2	W2	I-48	Is there a gov policy to support GovTech startups and private sector investments?	0/1	W2

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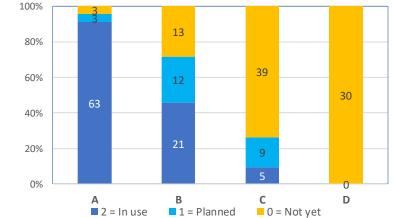
GTMI Trends > Interoperability

#	2022 GTMI Indicators & Sub-indicators	Response options & Data format	Please select a country name
Economy	Country name	Korea, Rep.	Korea, Rep.
I-3	Is there a government interoperability framework?	0= No, 1= In draft / Planned, 2= Yes	2
I-3.1	Title of the GIF report	Text	Guidelines for public information system
I-3.2	GIF report / draft URL	URL	https://law.go.kr/행정기관%20및%공공
I-3.3	GIF was introduced / will be introduced in (year)	үүүү	2009
I-3.4	GIF operational status	0= Unknown, 1= Partially used, 2= Extensively used	2
I-3.5	GIF scope > Is there a shared GIF?	0= Unknown, 1= Fragmented (Separate Central/Local), 2= Shared Central+L	2
I-3.6	Is there a data quality framework?	0= No, 1= Yes	1
I-3.7	Is there a system to monitor the 'uptime' of government information syst	e 0= No, 1= Yes	1
1-3.8	Is there guidance for replacing legacy government information systems?	0= No, 1= Yes	1
I-3.9	Monitoring & publishing of GIF usage, compliance, benefits?	0= No, 1= Yes (internal, not published), 2= Yes (public, published)	2
I-3.9.1	If Yes > Supporting document (report / URL)	Enter URL (public link) or Attach relevant report	https://www.egovframe.go.kr/home/sub
I-4	Is there a government service bus platform?	0= No, 1= In draft / Planned, 2= Yes (platform in use)	2
I-4.1	Name of the Government Service Bus platform	Text	Public Information Sharing System
1-4.2	GSB platform URL	URL	https://share.go.kr/main_www_2018.jsp
I-4.3	GSB platform was launched / will be launched in (year)	YYYY	2002
1-4.4	GSB operational status	0= Unknown, 1= Partially used, 2= Extensively used	2
1-4.5	GSB scope > Is there a shared GSB platform?	0= Unknown, 1= Fragmented (Separate Central/Local), 2= Shared Central+L	2
1-4.6	Monitoring & publishing of GSB usage, security, savings?	0= No, 1= Yes (internal, not published), 2= Yes (public, published)	2
I-4.6.1	If Yes > Supporting document (report / URL)	Enter URL (public link) or Attach relevant report	https://share.go.kr/fa/fa010/newFa/infol

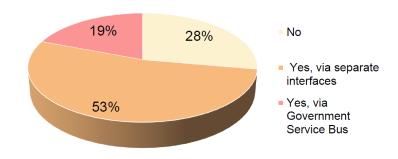


Is there a Government Service Bus Platform?

I-4 Interoperability Platform (Service Bus) - GTMI 2022



Does FMIS exchange data with other systems?



Trends in IFMIS Modernization



Trends and Challenges in Transition to IFMIS

Trends

- Growing focus on results: Program-Based Budgeting & Public Investment Mgmt.
- Integrating core FMIS with Data Warehouse and other government systems to improve data quality & value, and to expand the scope of transactions / TSA
- Rapid IFMIS modernization by combining traditional & agile approach
- Improving interoperability through web services / Application Program Interfaces (APIs) & shared Digital Public Infrastructure (DPI)
- Exploring the use of new/disruptive technologies (Big Data & AI/ML) for performance monitoring, decision support and savings

Challenges

Key challenges in transition to IFMIS are Adaptive (non-technical):

- Leadership & change management for transition to digital culture in the public sector
- Enforcing the use of IFMIS for daily recording of all budget transactions, and web publishing of results (for building trust)
- Improving the interoperability of IFMIS with other government systems.



Possible IFMIS Modules

- **Planning and Budgeting Modules**
 - MYB > Multi-Year Budget Preparation (including MEF)
 - **PIM** > Public Investment Management
 - **MPC** > Monitoring of projects and contracts
 - **REG** > Management of registries & budget classification

2. Budget Execution Modules

- MBA > Management of budget allocations
- **MEX** > Management of expenditures
- **MRE** > Management of receipts
- **PAY** > Payroll Calculations / Database
- **CCM** > Commitment control & management
- **CFM** > Cash forecasting and management
- ACC > Accounting / General Ledger
- 3. Transparent Government Reporting
 - **DWH** > Data Warehouse, BI tools, Web Portal
 - **OBD** > Financial Reports / Open Budget Data
- 4. Interfaces with other Government Systems
 - TSA interface > Interface with National Payment System
 - **HRMIS** > Human Resource Management
 - **e-GP** > Public Procurement and **AMS** > Asset Management
 - **Tax & Customs** > Revenue Administration
 - **Debt** > Debt Management
 - **PMS** > Pension Management System
 - AMS > Audit Management System

Centralized web-based cloud-ready IFMIS platform

IFMIS Model

be simplified

to avoid a

substantial

opportunity

cost while

IFMIS.

Shared IFMIS modules supporting all budget users online IFMIS Scope: Central and local governments

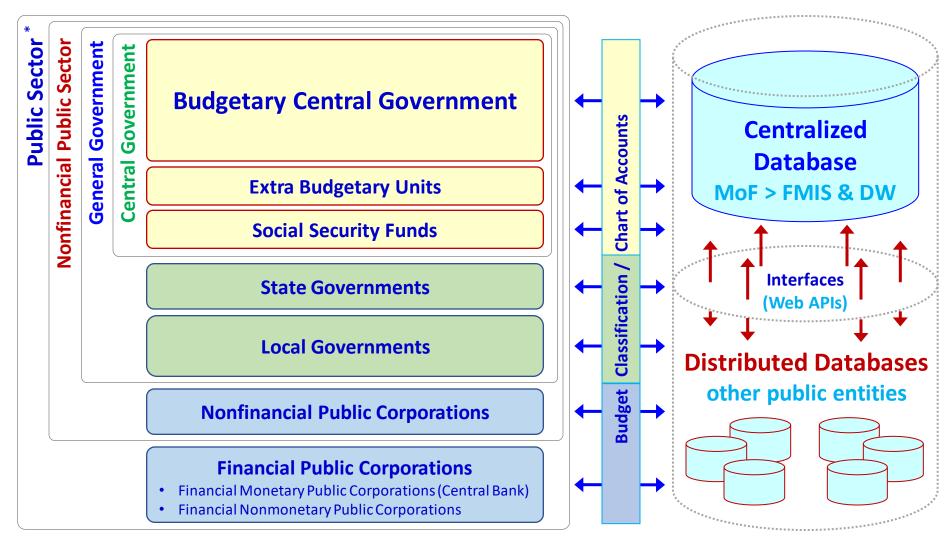
Ministry of Finance Other PFM Systems CB **Central level** National Budget Planning MDC TSA DRC Public Inv Mgmt **Payment System** IFMIS DW Budget Execution IFMIS -DW e-Payment Payroll CB GL + Reporting Interfaces (APIs) * Gateway **PFM** business Web Portal Monitoring Projects **Government Service Bus** processes can MoF **IFMIS VPN** Tax/Cust Rev Internet **Banks** and optimized CoB XXX sys users Debt Debt FMIS Proc **MDAs** e-GP MDA MDA **YY entities** HRMIS HRM **Offline** Online. Online XXX BUs + XX SoFs transitioning to XXXX sys users Local level Cities / Towns DBU SBU SBU CoB **ZZZ entities** Online/Offline · Online/Offline Online XXX BUs + XX SoEs DBU SBU SBU CoB XXXX sys users MoF : Ministry of Finance MDA: Ministries, Departments, Agencies GovTech : GovTech CB : Central Bank **CoB** : Commercial Banks **TSA** : Treasury Single Account DBU: District Budget User SBU: State Budget User **VPN:** Virtual Private Network MDC: Main Data Center DRC: Disaster Recovery Center **API:** Application Programming Interface

IFMIS can be designed as a cloud-ready platform for seamless integration with the future Government Cloud once it arrives

(*) There will be additional interfaces (APIs) with other PFM and government systems to use existing shared platforms such as National Digital ID and more.



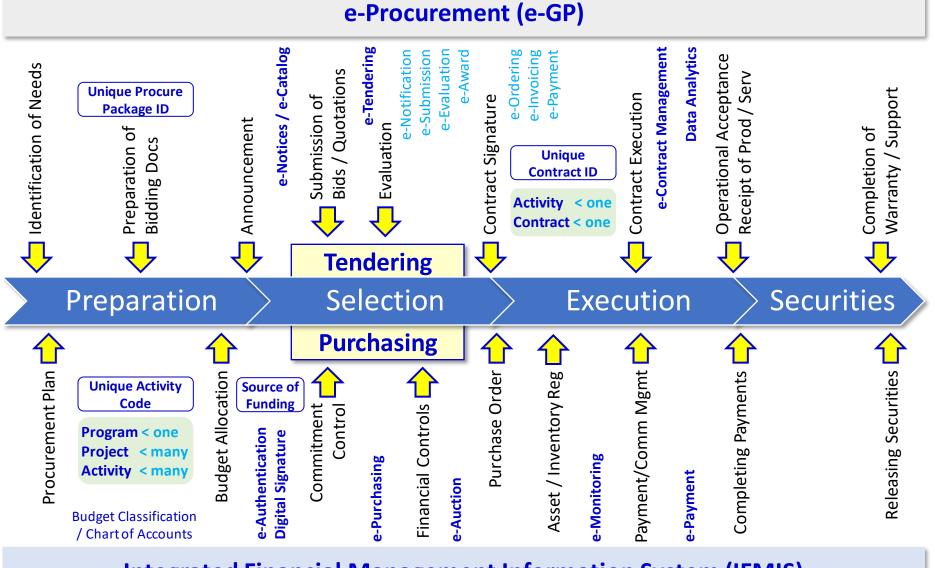
How to Automate Recording and Reporting of Public Finance Data?



* Institutional structure of "Public Sector", as defined in the IMF Govt Finance Statistics 2014 Manual

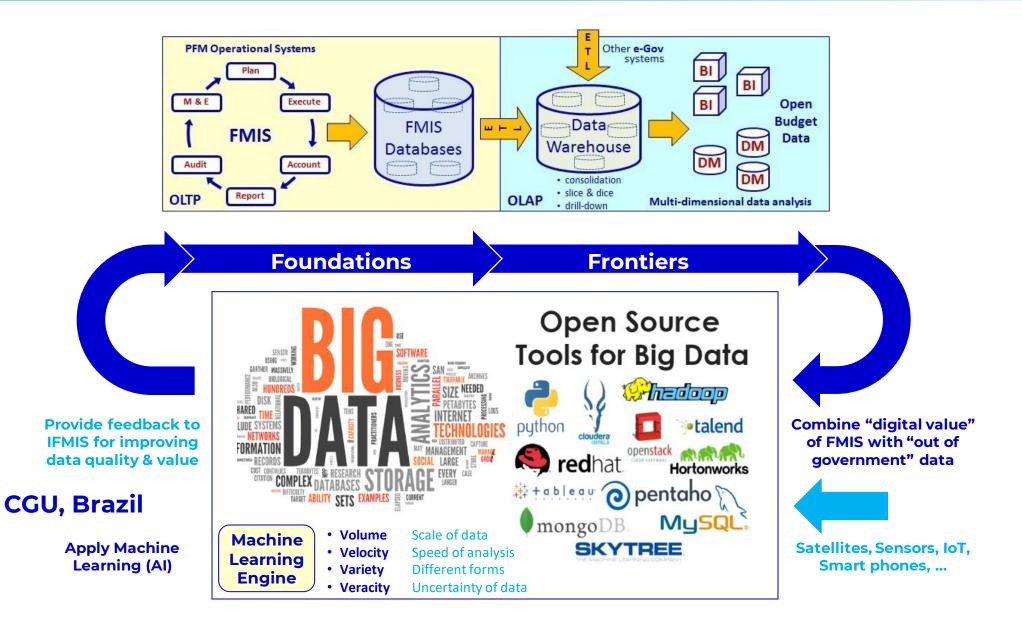


IFMIS & e-GP > Data Exchange



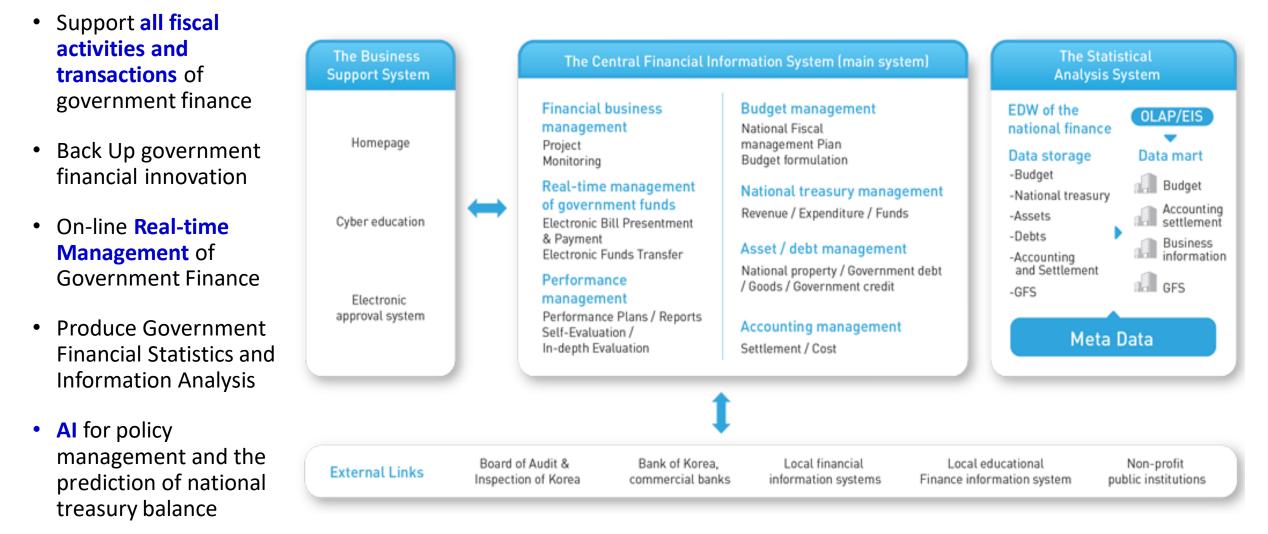
Integrated Financial Management Information System (IFMIS)

Brazil > Connecting Foundations & Frontiers





dBrain+ > Integrated PFM Information System





Priorities Going Forward

- Governments must adopt policies and governance frameworks that promote human-centric Al while maximizing opportunities. Critical aspects of the **policy framework** are listed below:
 - ► AI policy anchored in ethical principles would be essential.
 - Transparency and accountability through inclusion and multi-stakeholder engagement at every step of the AI policy design and implementation.
 - These policies should also promote digital skills, and broader education in science, technology, engineering, and mathematics (STEM) to support people as they adjust to the shifting nature of work in the coming decades.
 - The regulatory framework to fight online propaganda, misinformation, libel, and cybercrimes should be given priority.
 - Strengthen privacy, data protection, and civil liberties and monitor compliance, which is typically weak in most settings.
- Investments should be made in **human capital** and **digital infrastructure**.
- **Risks** should be identified and managed, rather than avoided.



organizational relationships.

1 Legal Interop	perability	3	Semantic Inte	roperability
Refers to regulations aimed at: lifting sectoral restrictions in the use and storage of data; unify data licenses; define data recording practices, among other things.	Removing legal barriers to interoperability and encouraging cooperation between administrations	repos that unde table	rs to vocabularies, database sitories, and other elements make it possible to erstand the contents of a e, file, or statistic and their age and transmission format.	Develop common schemas, catalogues and protocols to describe data exchanges
	Main focus	of mar	ny countries so far 🥎	
2 Organizational In	teroperability	4	Technological In	teroperability
This is how administrative entities align their process. Organizational IoP is composed of two pillars, business process harmonization, and organizational relationships	Align organizational processes, responsibilities, and expectations, institutional structure for leadership and	and i data entit spece	nical IoP covers applications infrastructures that enable sharing between different ies. This includes interface s, connection and data gration services, secure	Have the applications and infrastructure connecting systems and services

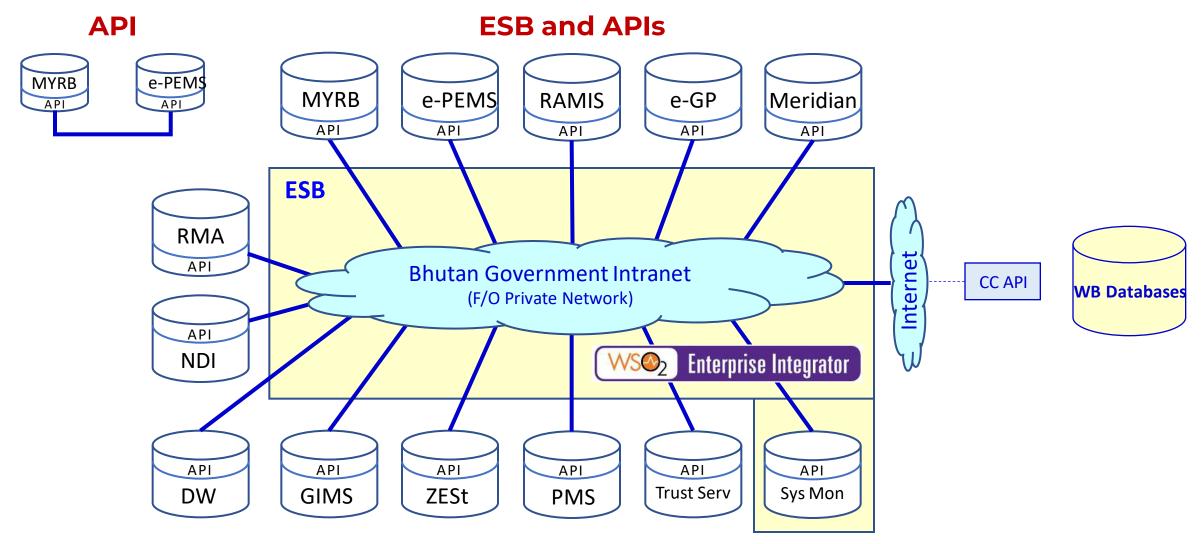
communication protocols, etc.

leadership and

coordination

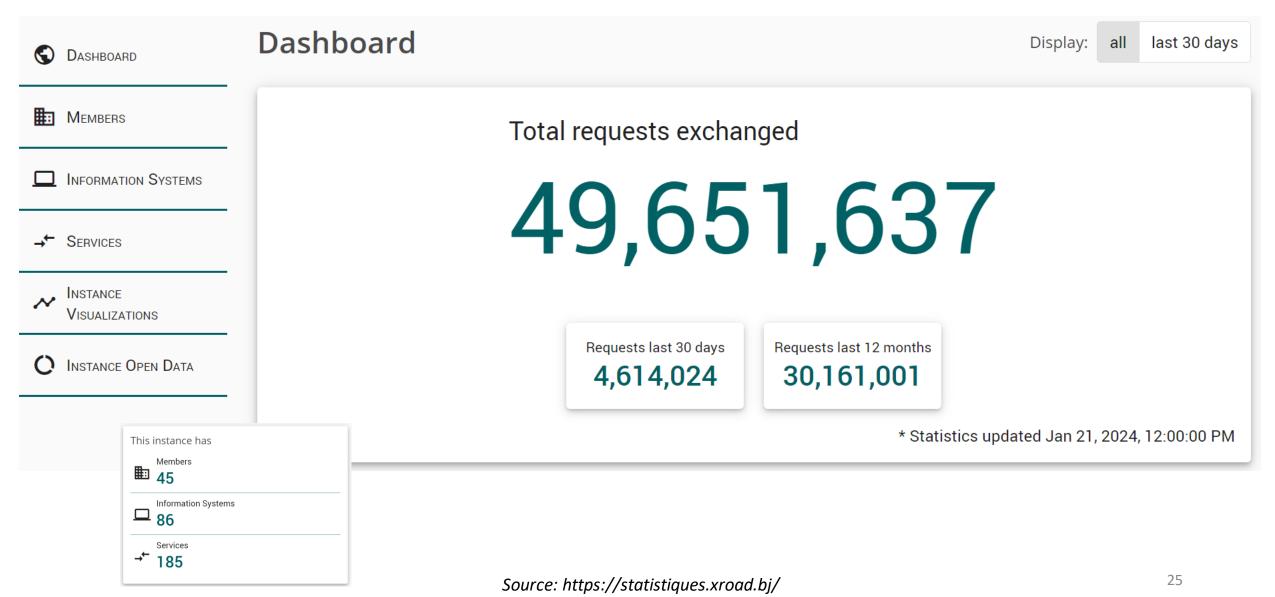


Using GSB (APIs) to improve IFMIS interoperability





Interoperability catalogue of services in Benin





Portugal > Interoperability Savings



iAP > Sobre a iAP > Indicadores

3.743.983.871 interações na iAP

em 124 entidades ligadas

desde 2007



desde 2007				
Ţ <u> </u>	Transações	2.871.876.	699	Bene
	mensagens trocadas	desde 2007 486.769.291 no último ano	44.56% crescimento 2023	desde 2007
	SMS	837.698.8	54	
<u> </u>	enviadas/recebidas	desde 2007		
		159.141.545	-12.87%	
		no último ano	crescimento 2023	
	Pagamentos	34.408.263	3	िर्भुद
€ ⊂	movimentos	desde 2007		¥
		5.266.865	-17.61%	
		no último ano	crescimento 2023	
	em milhões de	2.748 M€		
	euros	desde 2007		
		607 M€	40.73%	
		no último ano	crescimento 2023	

+ SERVIÇOS

ÁREA PRIVADA

Bene	efícios gerado	os pela iAP
esde 2007	7	
Q [‡] 7₹	Poupanças em milhões de euros	12.778,19 M
	Tempo poupado aos cidadãos	Tempo poupad à AP

INÍCIO

SOBRE A IAP

Tempo poupado ado àAP

12.778,19 M€

7.594.396 h	145.597.315 h
/ · · · · · · · · · · · · · · · · · · ·	T 10.077.010 II



973,44

Neutralizado

62.399.74

Árvores Poupadas

155.749,75

Toneladas de Emissões Toneladas de Carbono CO2 poupadas por km não percorrido

Source: https://iap.gov.pt/web/iap/iAP-em-numeros

Thank You

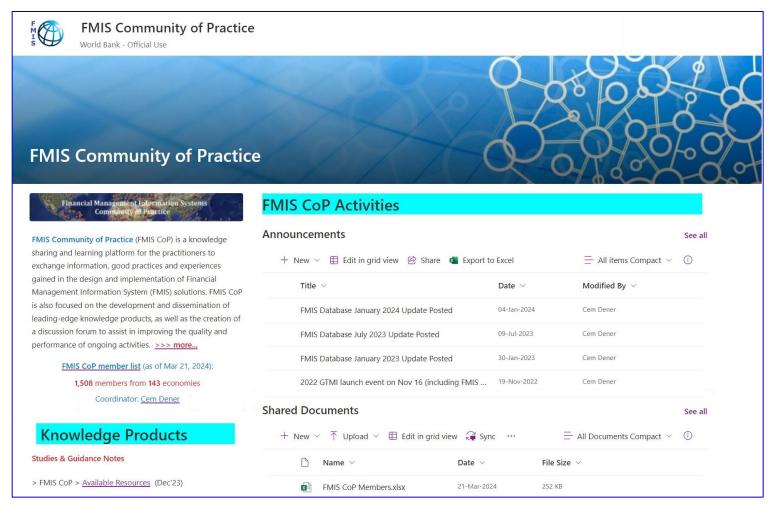
Q&A

- GovTech/GTMI web page: https://www.worldbank.org/en/programs/govtech/gtmi
- GTMI Dashboard: https://www.worldbank.org/en/data/interactive/2022/10/21/govtech-maturity-index-gtmi-data-dashboard
- GTMI Report (OKR): https://openknowledge.worldbank.org/handle/10986/36233
- 2022 GTMI Update (OKR): https://openknowledge.worldbank.org/handle/10986/38499
- GovTech Dataset: https://datacatalog.worldbank.org/search/dataset/0037889/GovTech-Dataset
- GovTech Projects Database: https://datacatalog.worldbank.org/search/dataset/0038056/digital-governance-projects-database
- GovTech OLC e-Learning course #1: https://olc.worldbank.org/content/govtech-fundamentals-and-key-concepts
- GovTech OLC e-Learning course #2: https://olc.worldbank.org/content/trends-govtech-solutions-public-financial-management



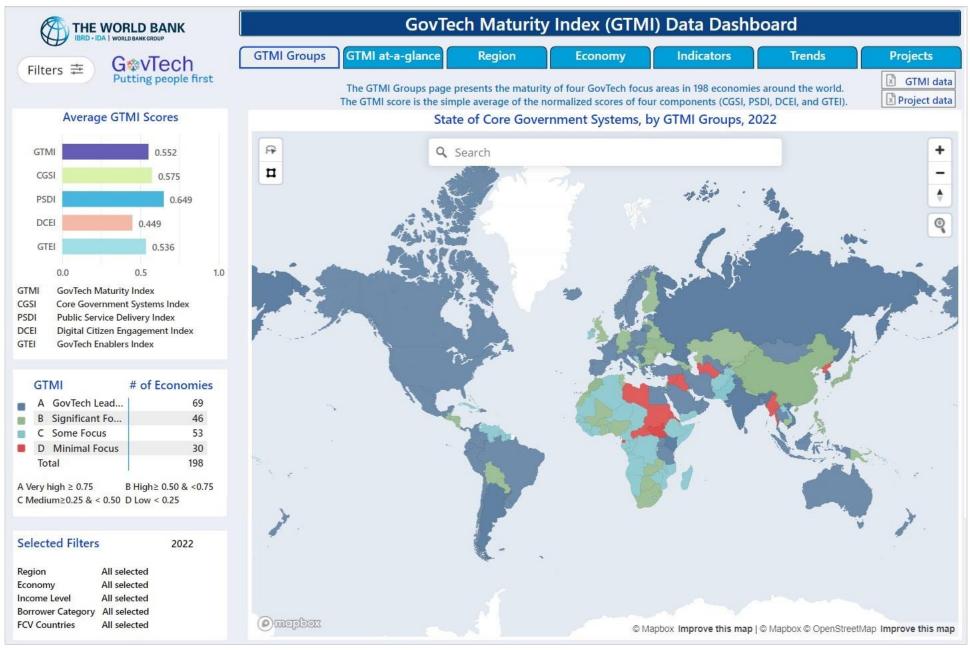
FMIS Community of Practice

- Objective : To assist the practitioners (government officials, WB staff/consultants, and development partners) in improving the effectiveness of PFM operations and service delivery by sharing knowledge and experiences, and producing relevant, leading edge knowledge products on integrated FMIS solutions.
- FMIS CoP was established in Sep 2010. As of Apr 2024, 1,500+ members from 143 economies.



G VTech Putting people first

GTMI Data Dashboard





GTMI Regional Briefs

A series of 2022 <u>GTMI Regional Briefs</u> were prepared to present an overview of the progress in GovTech maturity within the last two years, along with the good practices, gaps, and opportunities for accelerating public sector digital transformation.



- AFE East and Southern Africa
- **AFW** West and Central Africa
- **EAP** East Asia and Pacific
- ECA Europe and Central Asia
- LAC Latin America and the Caribbean
- MNA Middle East and North Africa
- **SAR** South Asia



GovTech Academy

GovTech Academy e-Learning courses launched through Open Learning Campus (OLC)

SELF-PACED E-COURSE

GovTech: Fundamentals and Key Concepts



GOVERNM

ABOUT THE COURSE

Governments have been using technology to modernize the public sector for decades. The World Bank Group (WBG) has been a partner providing both financing and technical assistance to support countries' digital transformation journeys since the 1980s. Over the last five years, developing countries have more frequently been requesting WBG funding and advisory support to design even more advanced digital transformation programs to increase government efficiency and improve access and quality of service delivery, enhance transparency and reduce corruption, improve governance and oversight, and modernize core government operations. The World Bank's GovTech Initiative launched in 2019 appropriately responds to this growing demand.

The "GovTech: Fundamentals and Key Concepts" self-paced e-Learning course introduces the GovTech concepts, focus areas, solutions, and good practices to support digital transformation reforms of governments around the world.

SELF-PACED E-COURSE

Trends in GovTech Solutions for Public Financial Management

ABOUT THE COURSE

This is the second e-Learning course of the World Bank's GovTech Academy program that was launched in 2020 to assist the World Bank staff and client countries working on digital transformation in the public sector through knowledge sharing and learning activities.

The first GovTech course "GovTech: Fundamentals and Key Concepts" was launched in November 2021 to introduce the GovTech concepts, focus areas, solutions, GovTech Maturity Index (GTMI), and good practices, and assists practitioners in the design of new digital transformation projects.

This self-paced e-Learning course (Trends in GovTech Solutions for Public Financial Management) explores the role of digital technology in the modernization and enhancement of Public Financial Management (PFM) systems, and the associated risks, challenges, and opportunities with a focus on fragile and low-income countries. It also looks at the innovative GovTech solutions and trends for budgeting, tax administration, public procurement, and financial fraud detection. GovTech OLC e-Learning course #1:

GovTech: Fundamentals and Key Concepts

MODULES

The GovTech: Fundamentals and Key Concepts self-paced course consists of four modules:

- Module 1, "GovTech: The Latest Generation in Public Sector Reforms," presents the definition of GovTech, the evolution of digital government, and GovTech approaches, and introduces the GovTech Global Partnership.
- Module 2, "GovTech Focal Areas: How They Work in Practice," explains the four GovTech focal areas in detail.
- Module 3, "GovTech Maturity Index (GTMI)," presents the objective, methodology, findings, and conclusions of the GTMI that measures the maturity of four GovTech focus areas.
- Module 4, "GovTech Solutions for Practitioners," describes different types of digital government investments, gives examples from GovTech solutions in the four focal areas, and describes GovTech challenges and opportunities.

GovTech OLC e-Learning course #2:

Trends in GovTech Solutions for PFM

MODULES

- The Trends in GovTech Solutions for Public Financial Management self-paced course consists of five modules:
- Module 1, "Use of New Technologies in Public Financial Management," explores how technology innovations can have an impact on PFM, as well as the challenges and benefits associated with digital transformation.
- Module 2, "Public Budgeting," explains trends in the modernization and interoperability of financial management information systems and other PFM solutions, and how these platforms can transform the process of planning, executing, monitoring, and reporting public budgets.
- Module 3, "Tax Administration," talks about why technology maturity is important for a transition to digital tax administration and how different technologies can improve the tax administration processes and transparency.
- Module 4, "Public Procurement," explores the context for improving the procurement of GovTech solutions, innovative procurement solutions, e-Procurement, and Procurement Data Analytics.
- Module 5, "Financial Auditing," covers the transition to data-driven financial auditing and the application of digital technology to fraud detection.



GovTech Advisory and Guidance Tool (GTAG)



- Increased knowledge and capacity for Digital Government/GovTech problem identification and project design across the World Bank and beyond, by providing good practice examples of GovTech related components, objectives, activities and performance indicators, budgets, drawing on existing GovTech projects and projects with GovTech focused components.
- ► Task teams will be able to search relevant project documents that fit client needs and development objectives in a more efficient manner.

ch Internet Contraction Contraction	AG Search (AI) About GTAG Search	(AI) AI4DG SDGs Further Information
GTAG Search is Al-p	owered Sementic Search, providing semantically relevant results and language understand contextual search experience.	ing for a more effective
E-Services, data	governance	Q Search
Filters Region	Search Results : 24 Download the search results	·Ċ· Examples
AFW EAP ECA	P178162 - Strengthening Digital Governance for Service Delivery Country: Kosovo Status: Pipeline Year: 2023- TTL. name: Ana Beliver Vazquez-Dodero (ADM) Doc type: PID_PCN	"E-Services"
LCR MNA SAR Income Level	Match 1; The Ministry of Public Administration (MoPA), which was brought under the Ministry of Internal Alfairs (MIA) in 2021, has been vested with the legal authority to take forward the dii aital <i>agovernance</i> and <i>e-services</i> agenda, hostina some of the critical institutions, includina t	"Cybersecurity"
High Income Upper Middle Income Lower Middle Income	he AIS and the SDC, while the Office of the Prime Minister, the MoTI (for business services), a nd other ministries and agencies are also major stakeholders. Match <u>2</u> ; Today, the country lacks a dedicated data governance body and there is a need to d	"Data Governance"
Project Status	evelop national interoperability standards and protocols in line with the new e-government Str ategy 2023-2027 and the European Commission/8?? <u>Match 3</u> ; architecture and digital governance to improve services to citizens.	"Lessons Learned"
Closed Active Pipeline Document Type	Match.4; Component 2 will support the optimization of base registries, enhancements to the e -Kosova platform and creating multichannel access to e-services. <u>Match 5</u> : This component will support the expansion of government e-services through an up graded e-Kosova and pilot an innovative approach to proactive citizen-centric service delivery organized around life events.	
ICR IEG		

