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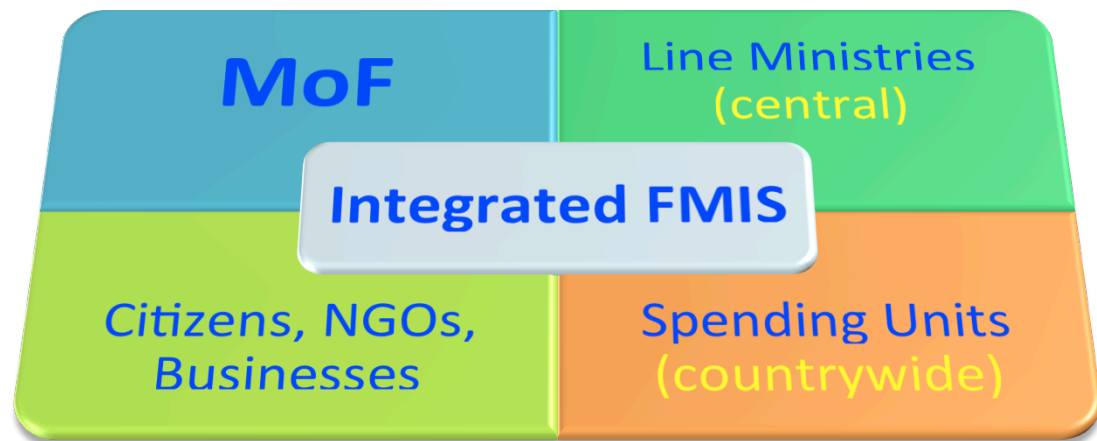
- Why Integrated FMIS?
- FMIS and Open Budget Data
- FMIS web resources



Transition to integrated FMIS

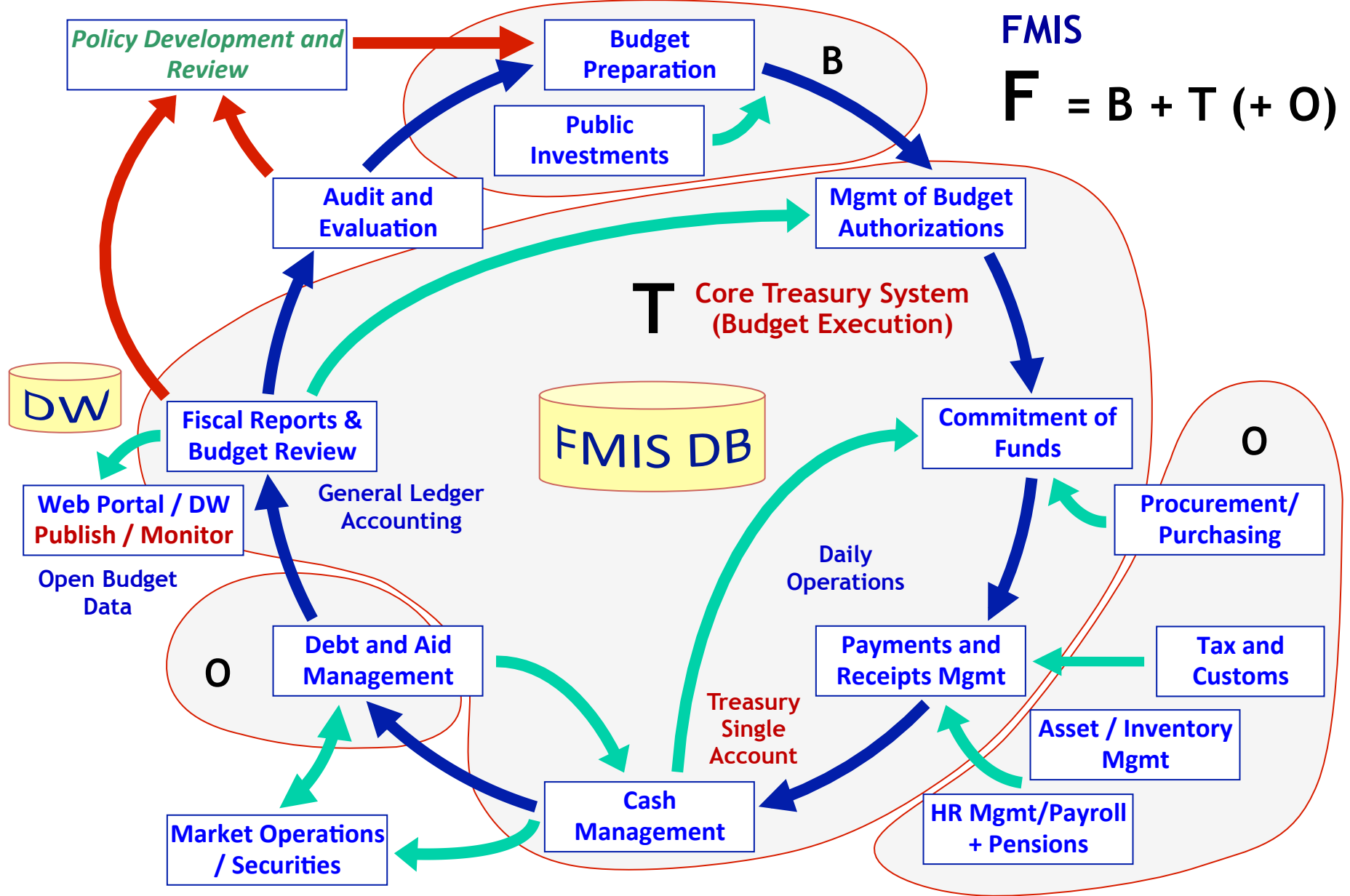
- ▶ In many economies, **initial PFM reforms** concentrated on establishing well functioning Treasury/FMIS and Treasury Single Account (TSA) to solve operational/technical issues.
- ▶ **Next generation FMIS solutions** are being designed to combine PFM operational systems (OLTP) with powerful data warehouse capabilities and multi-dimensional analytical queries (OLAP) to assist in effective forecasting/planning, performance monitoring and decision support.
- ▶ There is a growing interest in the disclosure of public finance information as **“Open Data”** (to improve transparency, accountability, & participation).

New role of MoF >>>
**Publisher of
Open Budget Data**





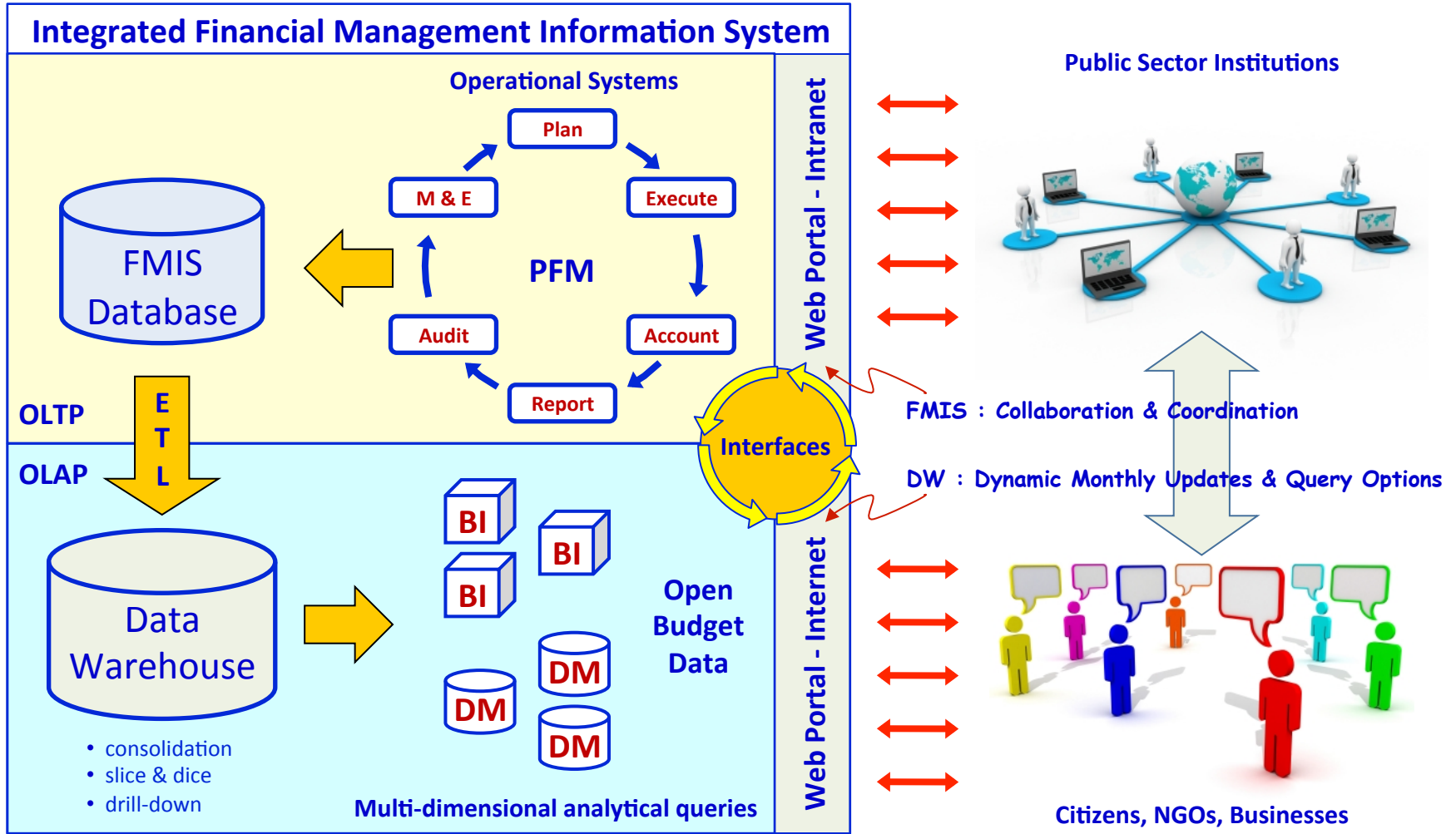
What is FMIS?





Why Integrated FMIS?

Goals: Daily Recording & Reporting of PF Data + Improved Service Delivery



Images: jscreationzs / FreeDigitalPhotos.net



FMIS

FMIS & Budget Transparency



Public Transparency Portal

Transparency Portal

Public Accounts Portal

Treasury Portal

Chamber of Deputies Portal

Senate Portal

Budget Portal

Despite challenges, a large number of good practices are visible

Source: Fiduciary Forum (May 2012): From the presentation of Mr. Regis Cunningham on FMIS Experiences in Brazil



Contents

- Why Integrated FMIS?
- **FMIS and Open Budget Data**
- FMIS web resources



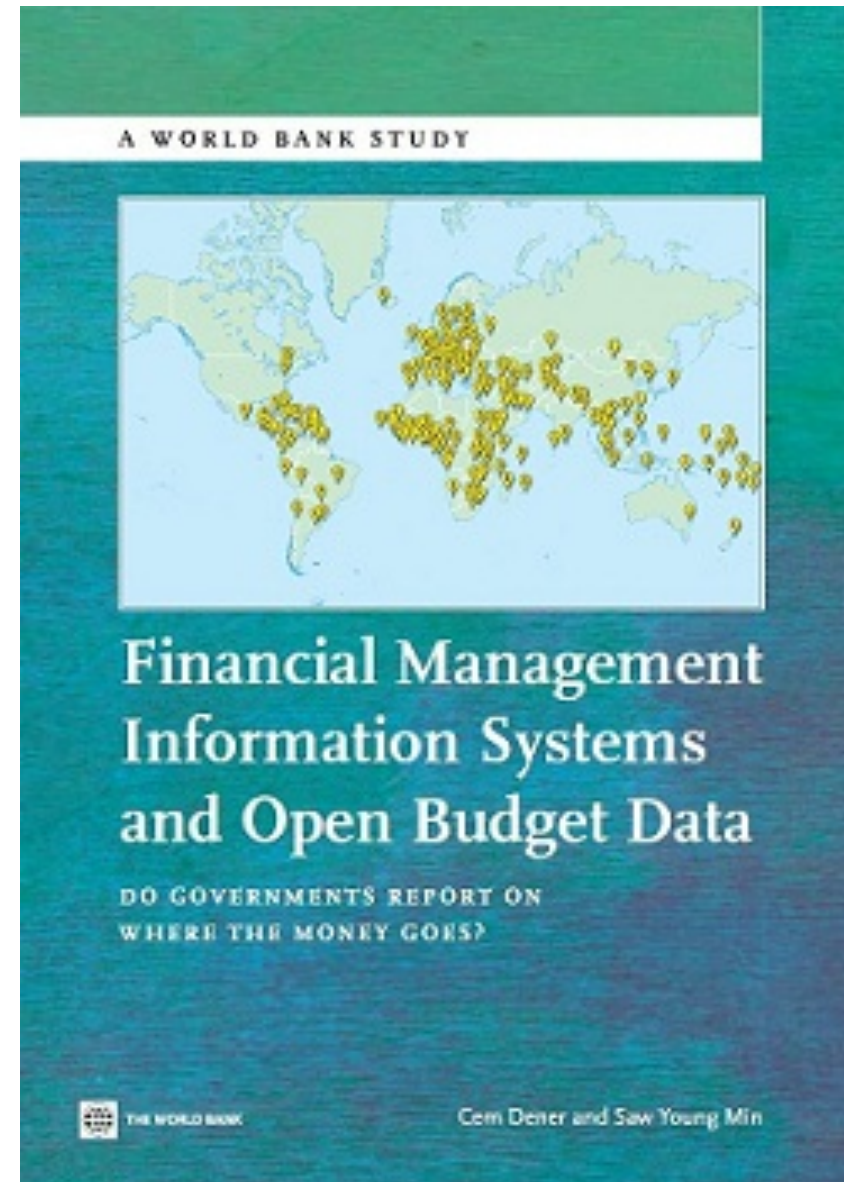
FMIS and Open Budget Data

Do Governments Report on Where the Money Goes? ²

September 2013

This study is the first attempt to explore the effects of FMIS on publishing open budget data and improving budget transparency. A rich data set was created by visiting government public finance web sites in 198 economies, and collecting evidence on the use of 176 FMIS in publishing open budget data. The findings of the study are expected to provide a comprehensive view of the current government practices around the world, and promote discussion on budget transparency and participation.

² Cem Dener, and Saw Young (Sandy) Min, “[Financial Management Information Systems and Open Budget Data: Do Governments Report on Where the Money Goes?](#)”, World Bank Study, October 2013.
May 2014

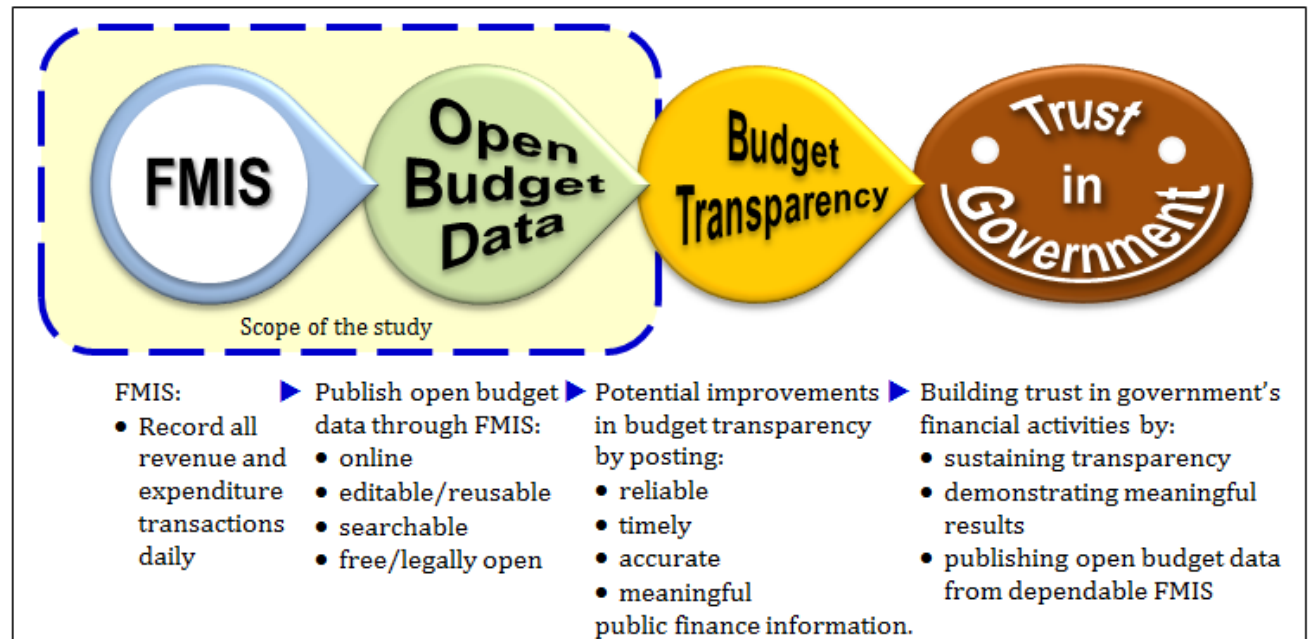




Benefits of Publishing Reliable Open Budget Data

- ▶ Disclosure of public finance info to citizens through FMIS can improve **Transparency**, if the published budget data are accurate, easily accessible, and meaningful.
- ▶ Fiscal transparency in turn can improve **Trust in Government**, if the public interprets the motives for publishing the open budget data positively and the transparency is maintained for long periods (affecting compliance, investments, elections, and support for difficult reforms).

- ▶ However, **high level political commitment** is required to achieve these.



Source: World Bank data.



Current status of publishing open budget data from FMIS

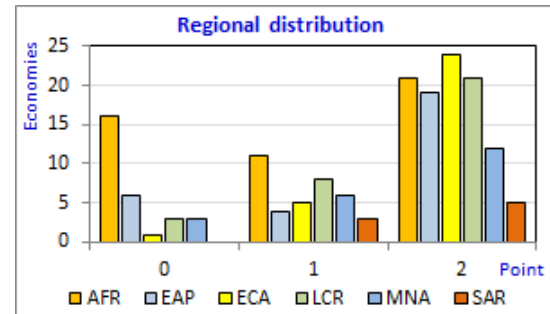
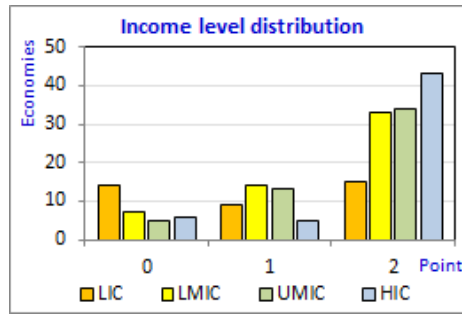
Group ► Current gov practices in disclosing OBD from FMIS		Economies %E		Regions %R	
A	Highly Visible (extensive information)	24	12 %	16	10 %
	Argentina, Australia, Brazil, Colombia, Ecuador, El Salvador, Germany, Guatemala, India, Ireland, Rep. of Korea, Mexico, Netherlands, New Zealand, Nicaragua, Paraguay, Peru, Russian Federation, Singapore, Slovenia, Spain, Turkey, United Kingdom, United States of America				
B	Visible (significant information)	69	35 %	57	34 %
	Afghanistan, Albania, Armenia, Austria, Bahrain, Bangladesh, Belgium, Bhutan, Bolivia, Bosnia and Herzegovina, Bulgaria, Canada, Cape Verde, Chile, China, Croatia, Czech Republic, Denmark, Dominican Republic, Estonia, Finland, France, Gabon, Georgia, Ghana, Honduras, Hong Kong SAR, Iceland, Indonesia, Italy, Japan, Jordan, Kenya, Kyrgyz Republic, Latvia, Lebanon, Lithuania, Macedonia, Madagascar, Malaysia, Malta, Mauritius, Moldova, Morocco, Namibia, Nepal, Norway, Pakistan, Philippines, Poland, Portugal, Romania, Serbia, Slovak Republic, Solomon Islands, South Africa, Sri Lanka, Sweden, Switzerland, Tanzania, Thailand, Timor-Leste, Tonga, Uganda, Ukraine, Uruguay, Venezuela, Viet Nam, Zambia				
C	Limited Visibility (some information)	60	30 %	56	33 %
	Algeria, Andorra, Angola, Antigua and Barbuda, Azerbaijan, Bahamas, Belarus, Botswana, Burkina Faso, Cambodia, Chinese Taipei (Taiwan), Costa Rica, Côte d'Ivoire, Cyprus, Djibouti, Dominica, Egypt, Ethiopia, Fiji, The Gambia, Greece, Grenada, Guinea-Bissau, Guyana, Haiti, Hungary, Iraq, Israel, Jamaica, Kazakhstan, Kosovo, Lao PDR, Lesotho, Liberia, Luxembourg, Macao SAR, Malawi, Maldives, Mauritania, Micronesia, Mongolia, Mozambique, Nigeria, Oman, Panama, Papua New Guinea, Rwanda, Samoa, Saudi Arabia, Senegal, Sierra Leone, St. Lucia, Swaziland, Tajikistan, Trinidad and Tobago, Tunisia, United Arab Emirates, West Bank and Gaza, Yemen, Zimbabwe				
D	Minimal Visibility (minimal or no information)	45	23 %	39	23 %
	Barbados, Belize, Benin, Brunei Darussalam, Burundi, Cameroon, Central African Republic, Chad, Comoros, Congo, Congo, Dem. Rep., Cuba, Equatorial Guinea, Eritrea, Guinea, Iran, Kiribati, Korea Dem. Rep., Kuwait, Libya, Liechtenstein, Mali, Marshall Islands, Monaco, Montenegro, Myanmar, Nauru, Niger, Palau, Qatar, San Marino, São Tomé and Príncipe, Seychelles, Somalia, South Sudan, St. Kitts and Nevis, St. Vincent and the Grenadines, Sudan, Suriname, Syrian Arab Republic, Togo, Turkmenistan, Tuvalu, Uzbekistan, Vanuatu				
Totals >		198		168	



I-1 Is there a dedicated Public Finance publication web site?

I-1 Is there a dedicated Public Finance publication web site?

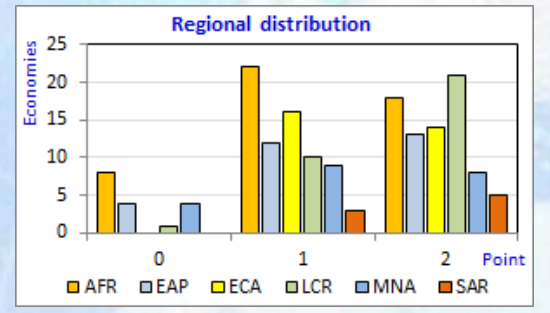
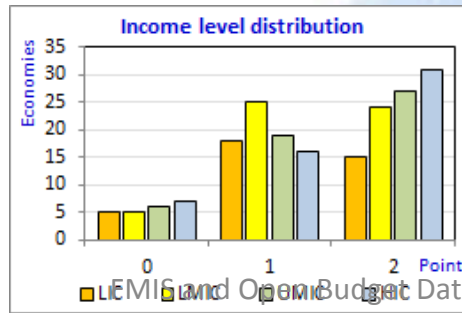
Points	Responses	Economies	%E	Regions	%R
2	There is a dedicated PF web site and links to budget related publications/reports are clearly visible from the home page	125	63.1 %	102	60.7 %
1	PF info links are not clearly visible from home page, and posted on separate web sites without links from home page	41	20.7 %	37	22.0 %
0	There is no dedicated web site for publishing PF information	32	16.2 %	29	17.3 %



I-2 Is there a web site/document about the FMIS solution?

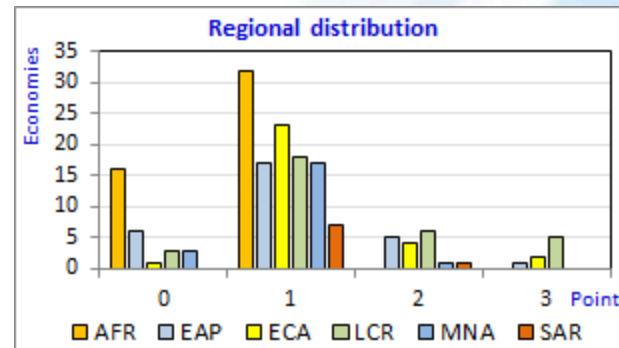
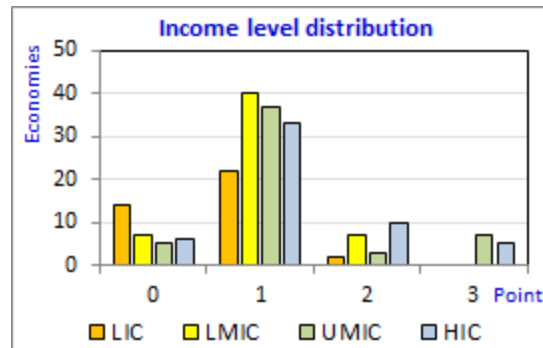
I-2 Is there a web site/document about the FMIS solution?

Points	Responses	Economies	%E	Regions	%R
2	There is a specific web site presenting the characteristics of FMIS solutions, or the current status of FMIS implementation.	92	46.5 %	74	44.1 %
1	There is only published reference document(s) about FMIS implementation.	83	41.9 %	77	45.8 %
0	There is no web site or document about the FMIS solution	23	11.6 %	17	10.1 %



I-3 What is the source of Public Finance data?

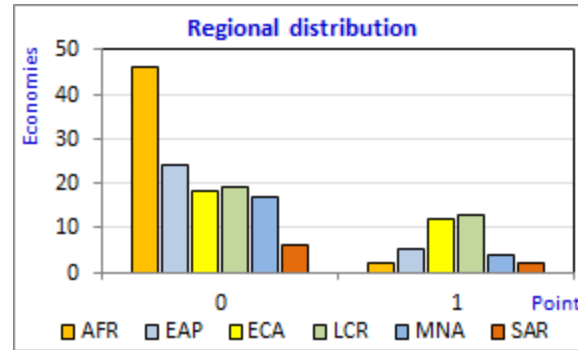
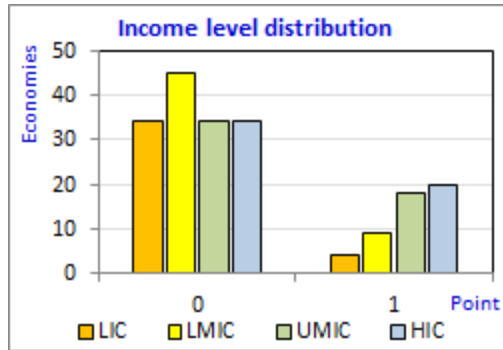
I-3		What is the source of Public Finance data?			
Points	Responses	Economies	%E	Regions	%R
3	Dynamic web site (linked with FMIS databases); interactive query options for reports (e.g. CSV, XLS, ODF, XML, PDF).	12	6.1 %	8	4.8 %
Argentina, Brazil, Colombia, Finland, Germany, Rep. of Korea, Mexico, Peru, Russian Federation, Turkey, UK, USA					
2	Dynamic web site (some linked with databases) to present data from a predefined list of publications (mainly PDF, XLS).	22	11.1 %	17	10.1 %
Bolivia, Chile, China, Denmark, Ecuador, El Salvador, Estonia, Georgia, India, Japan, Kyrgyz Republic, Malta, Netherlands, Nicaragua, Paraguay, Portugal, Singapore, Spain, Sweden, Chinese Taipei, Timor-Leste, Ukraine					
1	Static web site (not linked to databases) to publish data from unidentified sources (mainly in PDF format).	132	66.7 %	114	67.9 %
0	There is no published public finance information.	32	16.1 %	29	17.2 %





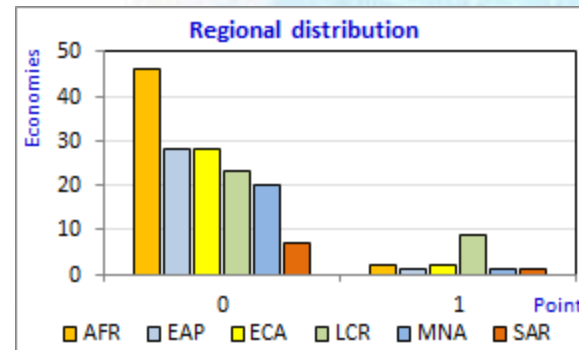
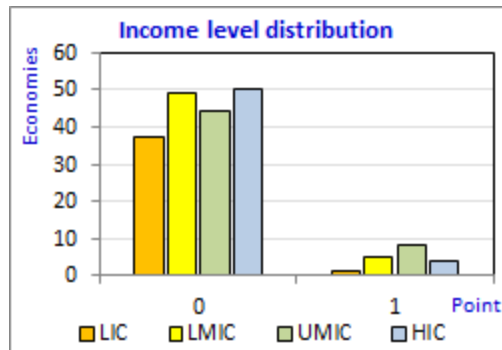
I-4 Presence of Open Budget Data (online, editable/reusable, free)?

Points	Responses	Economies	%E	Regions	%R
1	Yes	52	26.3 %	38	22.6 %
0	No	146	73.7 %	130	77.4 %



I-5 Is System Name visible in dynamic/static reports?

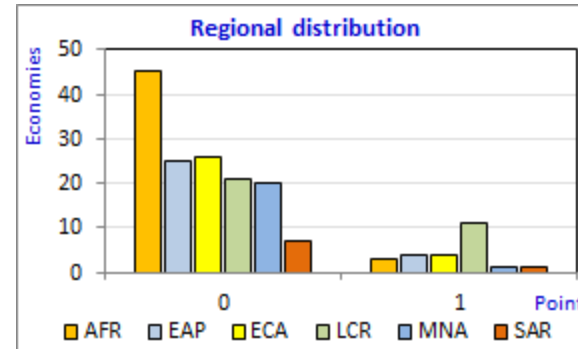
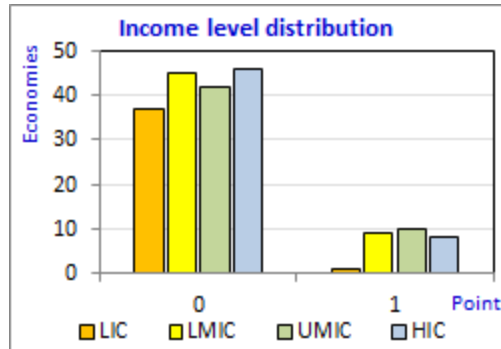
Points	Responses	Economies	%E	Regions	%R
1	Yes	18	9.1 %	16	9.5 %
0	No	180	90.9 %	152	90.5 %





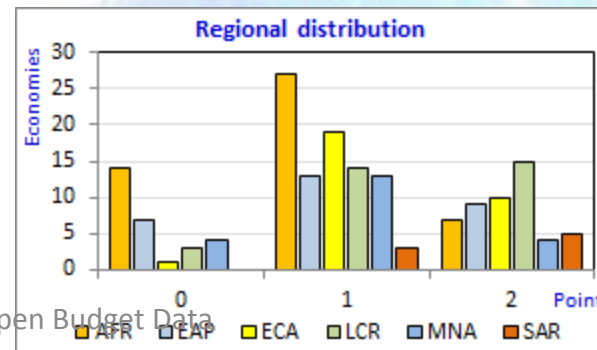
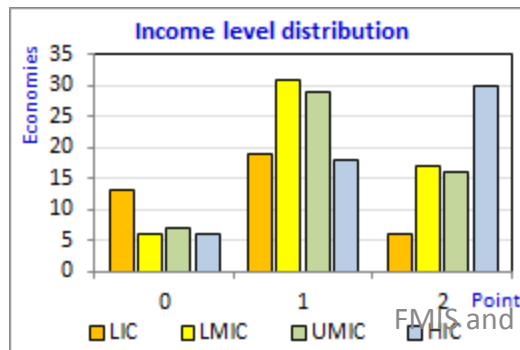
I-6 Is System Time Stamp visible in dynamic/static reports?

Points	Responses	Economies	%E	Regions	%R
1	Yes	28	14.1 %	24	14.3 %
0	No	170	85.9 %	144	85.7 %



I-7 Quality > What is the quality of PF data presentation?

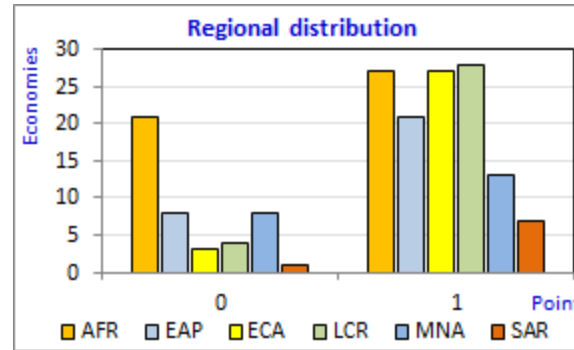
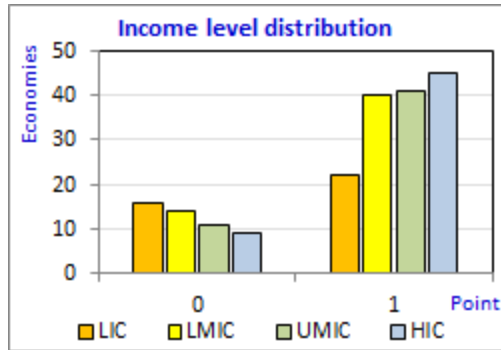
Points	Responses	Economies	%E	Regions	%R
2	Good quality (presented reports are informative and easy to access and read).	69	34.8 %	50	29.8 %
1	Partially acceptable (some of the published PF info is useful).	97	49.0 %	89	53.0 %
0	Below desired level (most of the published PF info are not informative).	32	16.2 %	29	17.2 %





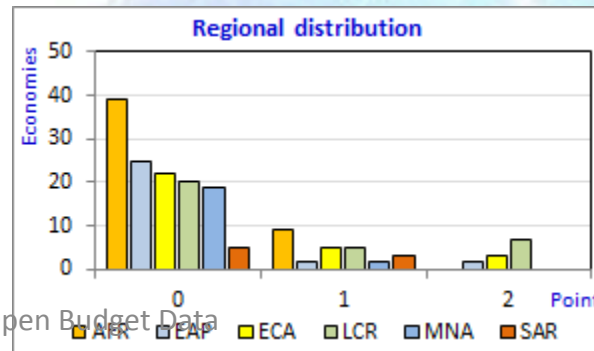
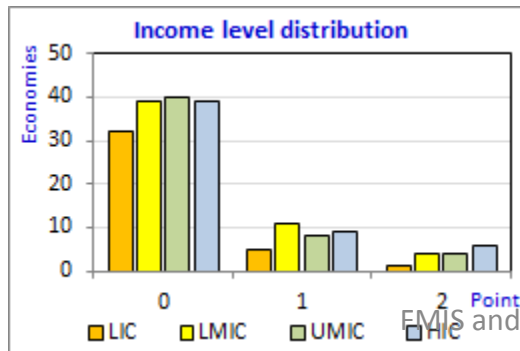
I-8 Content > Is there sufficient level of detail?

Points	Responses	Economies	%E	Regions	%R
1	Yes	148	74.7 %	123	73.2 %
0	No	50	25.3 %	45	26.8 %



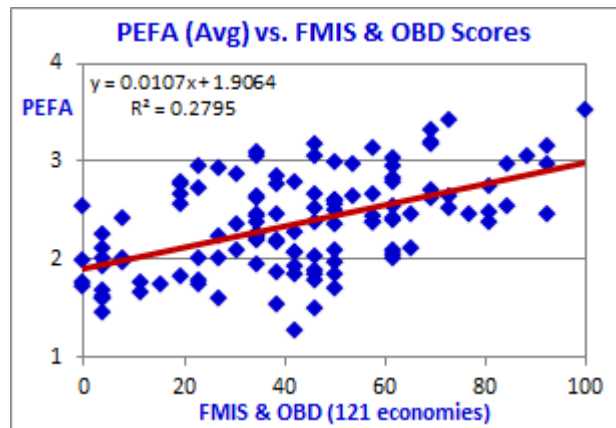
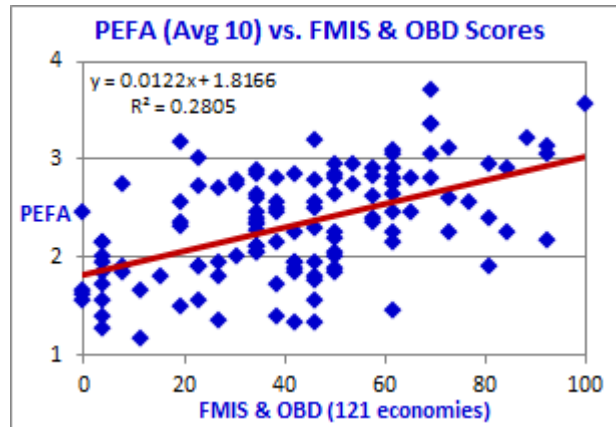
I-9 Are presented budget results easy to understand (Citizens Budget)?

Points	Responses	Economies	%E	Regions	%R
2	Yes (Comprehensive information in meaningful format for the citizens. Highly interactive).	15	7.6 %	12	7.1 %
1	Yes (Basic information about the budget cycle and some results in meaningful format).	33	16.7 %	26	15.5 %
0	No (Minimal or no information about Citizens Budget).	150	75.7 %	130	77.4 %

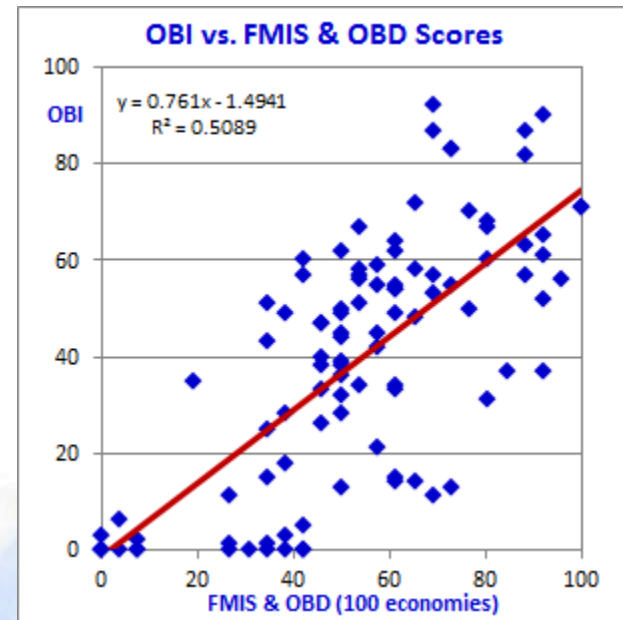




Comparison with PEFA indicators



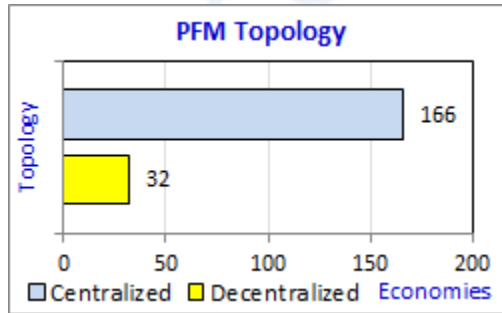
Comparison with OBI



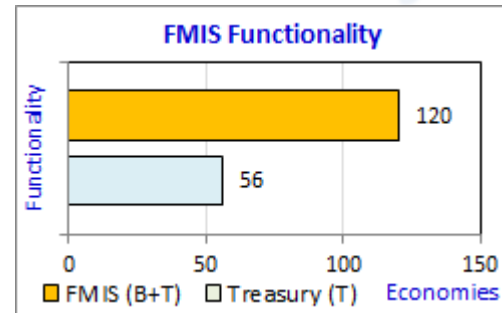


Characteristics of underlying FMIS solutions

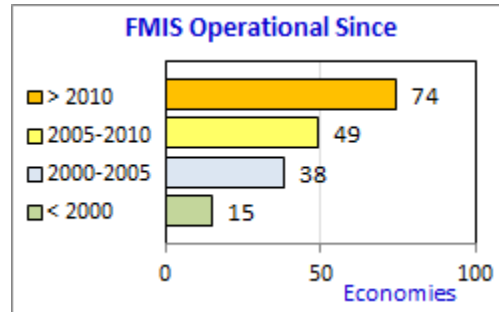
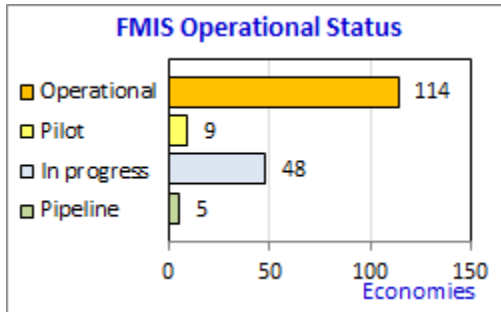
Topology



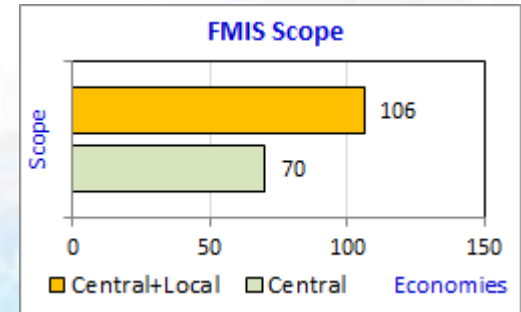
Functionality



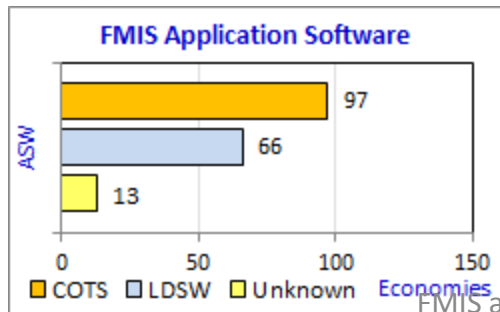
Operational Status



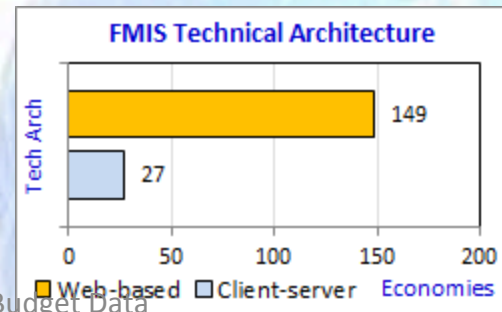
Scope



Application Software



Tech Architecture





FMIS

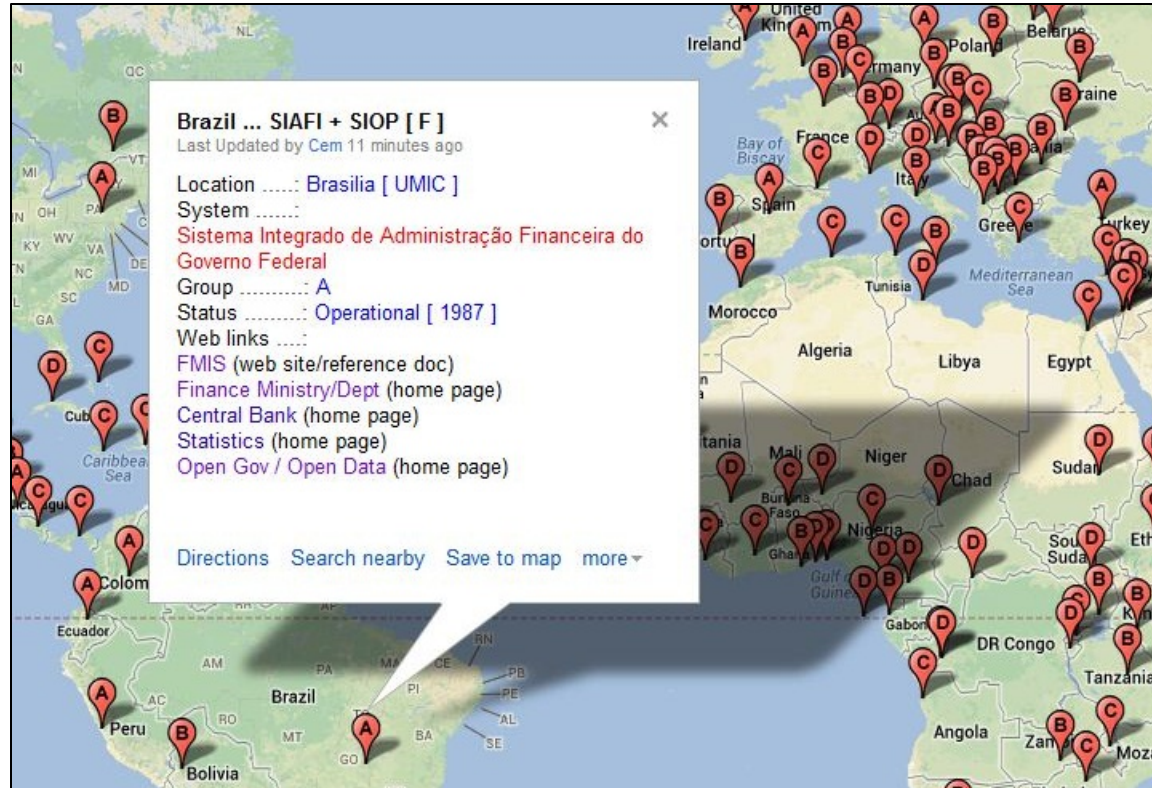
FMIS World Map

FMIS World Map (176 platforms in 198 economies)





FMIS World Map [A= 24, B=69, C= 60, D=45]





FMS

PF web sites

France

Ministry of Finance

<http://www.economie.gouv.fr>

Publications

<http://www.performance-publique.budget.gouv.fr>

PF Web Sites - January 2013

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Gabon

Ministry of Finance

<http://www.budget.gouv.ga/>

Publications

http://www.finances.gouv.ga/budget/rubrique.php?id_rubrique=110

PF Web Sites - January 2013

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FMIS web sites

Korea, Republic of

DBAS / DBrain

<https://www.digitalbrain.go.kr>

DBAS / DBrain

https://eng.digitalbrain.go.kr/en/view/functions/functions_overview.jsp?code=DB0601

Kyrgyz Republic

TMS

<http://www.kazna.gov.kg/index.php/modemizatsiya/isuk>

Latvia

FMIS / eKASE

http://www.kase.gov.lv/?object_id=449



Good Practices

Selection criteria

- ▶ **Timely publication:** A tradition of publishing consistent PF information through dedicated web sites regularly.
- ▶ **Visibility of FMIS:** Comprehensive information about underlying FMIS solution or data warehouse (DW) used for publishing PF information.
- ▶ **Dynamic query options:** Access to information for all revenues, allocations, and expenditures through user defined (dynamic) queries on FMIS databases or DW.
- ▶ **Open budget data:** Presenting a rich set of open budget data published from FMIS.
- ▶ **Reliability of PF data:** Visibility of system name/time stamp on published reports.
- ▶ **Presentation quality:** Presence of interactive and user friendly graphical interfaces to display PF data and provide adequate search/download options.
- ▶ **Effective use of open data:** Availability of meaningful open data on fiscal policy, budget performance, and achievements to the public (Citizen's Budget).



Good Practices

Income Level	#	Government web sites selected to highlight some of the good practices
High Income	20	Australia, Austria, Chinese Taipei (Taiwan), Denmark, Estonia, Finland, France, Germany, Ireland, Japan, Rep. of Korea, Netherlands, New Zealand, Norway, Singapore, Slovenia, Spain, Sweden, United Kingdom, U.S.A.
Upper Middle Income	17	Argentina, Brazil, Chile, China, Colombia, Dominican Rep., Ecuador, Jordan, Malaysia, Mauritius, Mexico, Peru, Russian Fed., Thailand, Turkey, Uruguay, Venezuela
Lower Middle Income	12	Bolivia, Guatemala, El Salvador, India, Indonesia, Morocco, Nicaragua, Pakistan, Paraguay, Philippines, Viet Nam, Zambia
Low Income	4	Madagascar, The Gambia, Timor-Leste, West Bank and Gaza

Region	#	Government web sites selected to highlight some of the good practices
Africa	4	Madagascar, Mauritius, The Gambia, Zambia
East Asia and Pacific	13	Australia, China, Chinese Taipei (Taiwan), Indonesia, Japan, Malaysia, New Zealand, Rep. of Korea, Philippines, Singapore, Thailand, Timor-Leste, Viet Nam
Europe and Central Asia	15	Austria, Denmark, Estonia, Finland, France, Germany, Ireland, Netherlands, Norway, Russian Federation, Slovenia, Spain, Sweden, Turkey, United Kingdom
North and South America	16	Argentina, Bolivia, Brazil, Chile, Colombia, Dominican Republic, Ecuador, El Salvador, Guatemala, Mexico, Nicaragua, Paraguay, Peru, Uruguay, U.S.A., Venezuela
Middle East and North Africa	3	Jordan, Morocco, West Bank and Gaza
South Asia	2	India, Pakistan

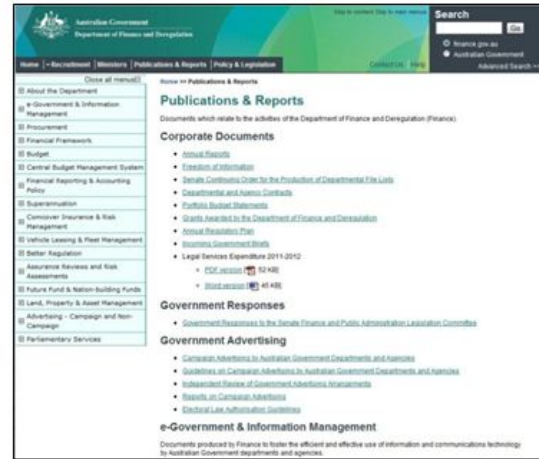
FMIS & OBD Group	#	Government web sites selected to highlight some of the good practices
A	24	Argentina, Australia, Brazil, Colombia, Ecuador, El Salvador, Germany, Guatemala, India, Ireland, Rep. of Korea, Mexico, Netherlands, New Zealand, Nicaragua, Paraguay, Peru, Russian Federation, Singapore, Slovenia, Spain, Turkey, United Kingdom, U.S.A.
B	26	Austria, Bolivia, Chile, China, Denmark, Dominican Republic, Estonia, Finland, France, Indonesia, Japan, Jordan, Madagascar, Malaysia, Mauritius, Morocco, Norway, Pakistan, Philippines, Sweden, Thailand, Timor-Leste, Uruguay, Viet Nam, Venezuela, Zambia
C	3	Chinese Taipei, The Gambia, West Bank and Gaza



Presentation of Selected Cases - I

Australia

The [Publications & Reports](#) section of the Australian Department of Finance and Deregulation web site includes a large number of key documents published within the last decade. There are well established standards for web publishing, content management, open data, information security, ICT infrastructure, and guide to open source software, among others. Guidance for Australian Government in publishing [Public Sector Information \(PSI\)](#) is also available on the Open Government web site (<http://data.gov.au>). Finally, extensive information is available on [DataCatalogs.org](#) which was created as a comprehensive list of open data catalogs in the world.



India

The Ministry of Finance presents comprehensive data (<http://www.finmin.nic.in>) on Indian state budget, public finance statistics, public debt, tenders, and monthly economic reports regularly. The government accounting and reporting functions are supported through [e-Lekha](#) solution (since 2007) which has been developed by the [National Informatics Center \(NIC\)](#) for the office of the [Controller General of Accounts \(CGA\)](#). Most of the budget execution reports are produced and posted from e-Lekha. Reports posted on the MoF website can be viewed or downloaded in PDF.





Presentation of Selected Cases - II

Viet Nam

The Ministry of Finance web site presents (<http://www.mof.gov.vn>) extensive open budget data about the performance of state and local budget execution from existing information systems. New **Treasury and Budget Management Information System** (TABMIS) is expected to be fully operational in 2013 to support the publication of open budget data. All budget reports, investments, and final accounts are regularly updated and displayed online, with relevant links to download displayed results in XLS format.



Dominican Republic

The **Sistema Integrado de Gestión Financiera** (SIGEF) provides timely and reliable information on budget execution. The reports published on the Ministry website include a header section with system name and date/time stamp. Other monthly statistics based on the SIGEF database are also available from the Ministry website.

System name (SIGEF)

Date/time stamp from SIGEF

Sistema Integrado de Gestión Financiera		Clasificación Económica De Gastos													SIGEF - Datos de Ejecución - 2013-05-01 10:58:18 AM		
Fecha: 2013		DEVENGADO APROBADO													Página 1 de 2		
Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item	Item
TOTAL		1,000,000,000.00	1,000,000,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01	01	1,000,000,000.00	1,000,000,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Guidelines for publishing open budget data

The following recommendations are addressed to (a) the government officials; (b) citizens and civil society groups; and (c) oversight agencies, for possible improvements in the performance of publishing PF data through FMIS, and managing public finances effectively:

- ▶ Availability of timely and comprehensive budget information
- ▶ Disclosure of details about underlying information systems
- ▶ Availability of user defined (dynamic) query and reporting capabilities
- ▶ Publishing reliable and interlinked open budget data
- ▶ Authentication of the sources of public finance data
- ▶ Improving the quality of presentation
- ▶ Promoting the effective use of open budget data



Conclusions

Developing robust FMIS solutions as the source of open budget data, and measuring the effects of FMIS on budget transparency continue to be major challenges.

Innovative solutions to improve budget transparency can be developed rapidly with a modest investment even in difficult settings, if there is a political will and commitment from the government.

- ▶ Despite the existence of about 176 FMIS platforms in 198 economies, most of the publications posted by the governments are not linked with underlying databases, and there is little focus in publishing “open budget data”.
- ▶ Overall, there are only 48 countries (24 %) where civil society and citizens have the opportunity to benefit from public finance information published on the web (Citizens Budget and transparency portals) to monitor the budget.
- ▶ Also, the external audit organizations do not appear to be using the FMIS platforms effectively, while monitoring the government’s financial activities or auditing the budget results, in many countries.

The main conclusion is:

“What You See Is (Not Always) What You Get”

in government web sites. Additional efforts are needed in many economies for building confidence in the budget data published by the governments.



Contents

- Why Integrated FMIS?
- FMIS and Open Budget Data
- **FMIS web resources**



Governance & Public Sector Management

Home > Topics > Governance & Public Sector Management > Public Finance > Financial Management Information Systems



COLLABORATION 2 of 4

The Greater Than Leadership (GTL) Program for FMIS Workshop

Following the GTL4FMIS workshop held in Seoul (Dec 9-15, 2012) three countries (Albania, Philippines, and Vietnam) initiated several Rapid Results Initiatives (RRI) since February 2013, to address some of the adaptive (non-technical) challenges in ongoing FMIS development programs. [Read more >>](#)

Financial Management Information Systems (FMIS)

Financial Management Information Systems (FMIS) support the automation and integration of public financial management processes including budget formulation, execution (e.g. commitment control, cash/debt management, treasury operations), accounting, and reporting. FMIS solutions can significantly improve the efficiency and equity of government operations, and offer a great potential for increasing participation, transparency and accountability. The World Bank is a leading provider of financing and technical assistance for FMIS development.

[FMIS WORLD MAP](#) | [FMIS DATA MAPPER](#)



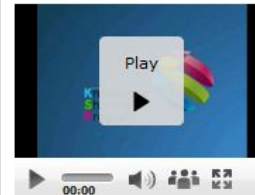
The FMIS World Map presents basic information about 176 FMIS solutions in 198 economies worldwide (as of Sep'13) using Google Maps.

Detailed information about these FMIS platforms and government practices related to publishing open budget data

KNOWLEDGE PRODUCTS

- ▶ [TSA Rapid Assessment Toolkit V2 \(Feb'14\) \[PDF\]](#)
- ▶ [FMIS & Open Budget Data \(Sep'13\)](#)
Language: English, Russian, French, Spanish, Portuguese, Arabic, Chinese, Korean, Turkish
- ▶ [FMIS & OBD Data Set \[XLS\]](#)
- ▶ [FMIS Study \(Apr'11\)](#)
Language: English, Russian, French, Spanish, Portuguese, Arabic, Chinese, Vietnamese, Turkish
- ▶ [FMIS Database \(Jan'14\)](#)
- ▶ [FMIS Data Mapper \(Jan'14\)](#)
- ▶ [FMIS World Map \(Sep'13\)](#)
- ▶ [Seminars & Workshops since Sep'10](#)

EVENTS



Greater than Leadership Program for FMIS Workshop

- ▶ [\[May 13-15, 2014\] IADB Conference - Korean Experience: Lessons for Latin American and Caribbean Development](#)
- ▶ [\[May 5, 2014\] FMIS CoP Meeting #31 - A discussion on Aid Information](#)



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FMIS Community of Practice (FMIS CoP) is a knowledge sharing and learning platform for the practitioners to exchange information, good practices and experiences gained in the design and implementation of Financial Management Information System (FMIS) solutions. FMIS CoP is also focused on the development and dissemination of leading edge knowledge products, as well as the creation of a discussion forum to assist in improving the quality and performance of ongoing activities. The FMIS CoP **Charter** presents the background, purpose, operating model, and platform details. [...more >>](#)

FMIS CoP Members (as of Mar 31, 2014):
754 members from 122 economies
 Coordinator: Mr. Cem Dener

Knowledge Products

▶ **TSA Rapid Assessment Toolkit v2** (Feb'14)

▶ **FMIS & Open Budget Data Study** (Sep'13)

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▶ **FMIS & OBD Database** (Sep'13)

▶ **FMIS Study** (Apr'11)

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▶ **FMIS Database** (Jan'14)

▶ **FMIS Data Mapper** (Jan'14)



▶ **FMIS World Map** (Sep'13)



Seminars / Workshops

▶ FMIS Knowledge Sharing and Learning Events

Announcements

Title	Modified	🔒
FMIS CoP Mtg #31 (May 5, 2014) > Aid Information Mgmt Systems (featuring AMP)	3/28/2014 8:04 PM	
FMIS CoP Mtg #30 (Apr 30, 2014) > Aid Information Mgmt Systems (featuring DAD & SBS)	3/28/2014 8:04 PM	
IMF-CEF Course on IFMIS Challenges (Kuwait, Mar 2014) > Presentations posted	3/28/2014 12:55 PM	
How to download the CoP meeting presentations and more?	3/28/2014 12:27 PM	
FMIS & OBD Study : Translations completed. Korean version posted.	3/16/2014 6:45 PM	
FMIS CoP Charter and Action Plan posted	3/16/2014 6:42 PM	
FMIS CoP Mtg #29 (Mar 27, 2014) > A discussion on COTS solutions (featuring SAP)	3/8/2014 10:30 AM	

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➕ Add new announcement

Shared Documents

Type	Name	Modified	Modified By	File Size
📁	FMIS CoP Meetings	3/27/2014 2:59 PM	Cem Dener	
📁	FMIS and Open Budget Data	3/27/2014 2:59 PM	Cem Dener	
📁	FMIS Study	3/27/2014 2:59 PM	Cem Dener	
📁	TSA Rapid Assessment Toolkit	3/27/2014 2:58 PM	Cem Dener	
📁	FMIS Data Mapper	3/9/2012 3:26 PM	Cem Dener	

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➕ Add document

Useful Links

- ▶ FMIS activities @ WBG
- ▶ FMIS network @ LinkedIn | Red Sistemas Administración Financiera Pública
- ▶ FMIS and Open Budget Data Study @ WBG Documents & Reports
- ▶ FMIS Study @ WBG Documents & Reports
- ▶ WB PFM Reform Database > FMIS
- ▶ PEM-PAL - Public Expenditure Management-Peer Assisted Learning (ECA)
- ▶ FOTEGAL - Government Treasury Forum of Latin American Countries (LCR)
- ▶ PEMNA - Public Expenditure Management Network in Asia (EAP)
- ▶ EU Joinup (Open Source)

www.worldbank.org/publicfinance/fmis

Thank You

<https://etam.worldbank.org/fmis>