

17 JANUARY 2017 (TUESDAY)

Venue: The Stock Exchange of Thailand 3rd floor, Tower B, Sukri Kaocharern Hall 93 Ratchadaphisek Road, Dindaeng, Bangkok 10400, Thailand

2	24 [™] ASEAN+3 Bond Market Forum (ABMF) Sub-Forum 2 Meeting
TIME	PROGRAM
08:30 - 09:00	Registration
09:00 – 09:10	Welcome Remarks by Dr. Pakorn Peetathawatchai, Senior Executive Vice President, Stock Exchange of Thailand
09:10 - 09:20	Opening Remarks by Mr. Jong Hyung Lee, SF2 Chair
09:20 – 10:00	Session1: Thailand Capital Market and Future Plan by Dr. Pakorn Peetathawatchai, Senior Executive Vice President, Stock Exchange of Thailand
10:00 – 10:20	Session 2: AMBIF Tax Procedure by ADB Secretariat - Outcome of the findings - Recommendations from ABMI TF
10:20 – 10:35	Coffee break
10:35 – 11:05	Session 3: RTGS Development in Myanmar by Ms. Su Su Nwe, Deputy Director, Financial Market Department , Central Bank of Myanmar
11:05 – 11.35	Session 4: Implementation of ISO20022 messages and Survey on Account Structure by ADB Secretariat
11:35 – 11:40	Wrap Up by ADB Secretariat - Report to ABMI TF3 and ASEAN+3 Finance Ministers and Central Bank Governors' meeting
11:40 – 11:45	Closing Remarks by Mr. Jong Hyung Lee, SF2 Chair
11:45 – 13:00	Lunch
13:00 - 14:00	INVESTORY TOUR by Stock Exchange of Thailand



24TH ABMF MEETING

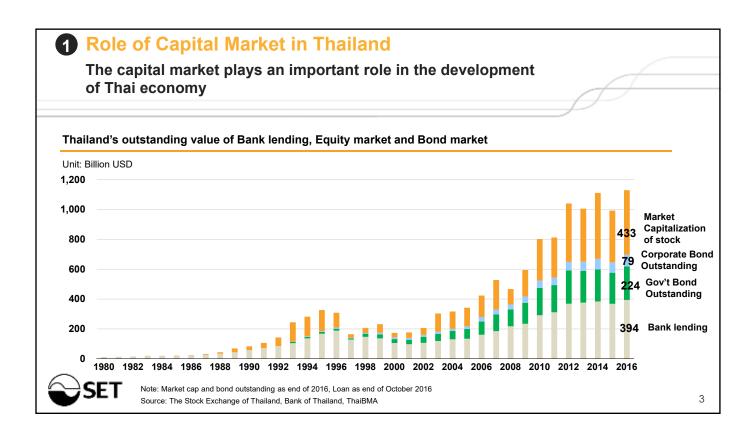
SUB-FORUM 2 (SF2) SESSION

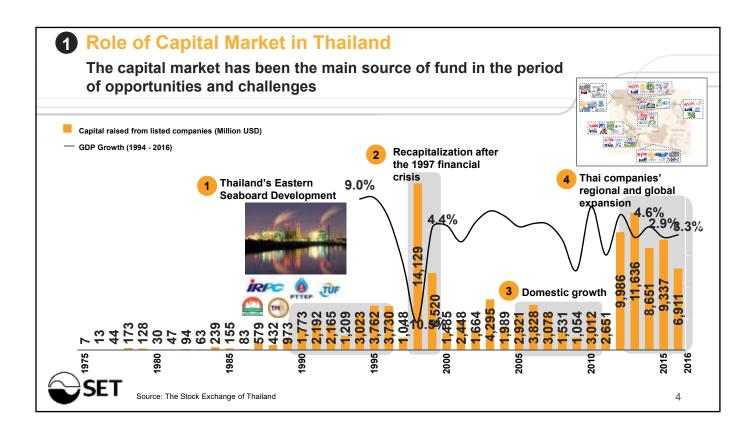
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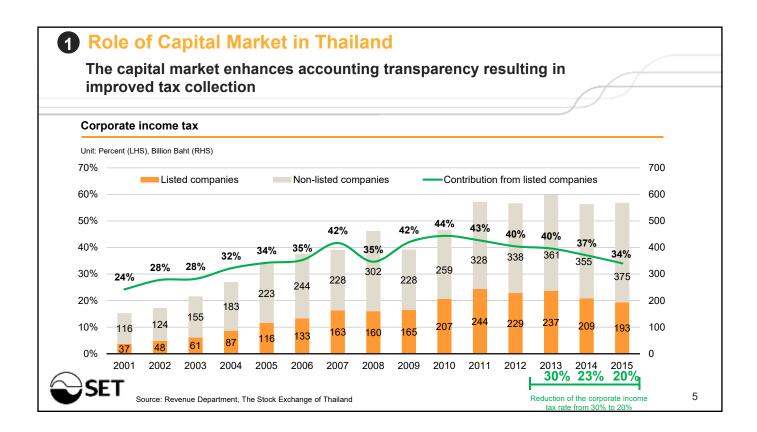




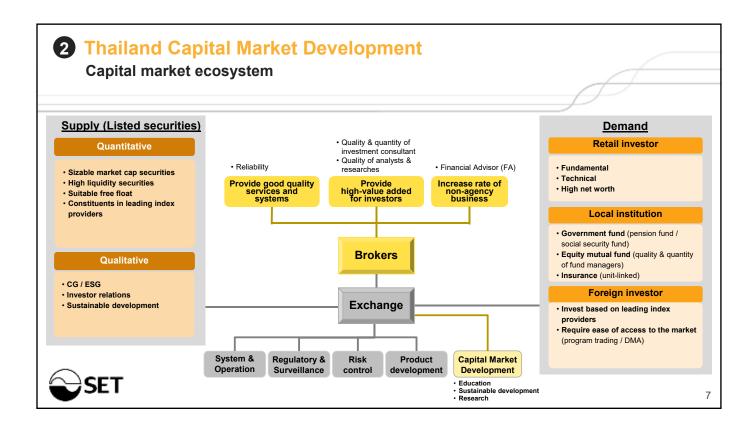


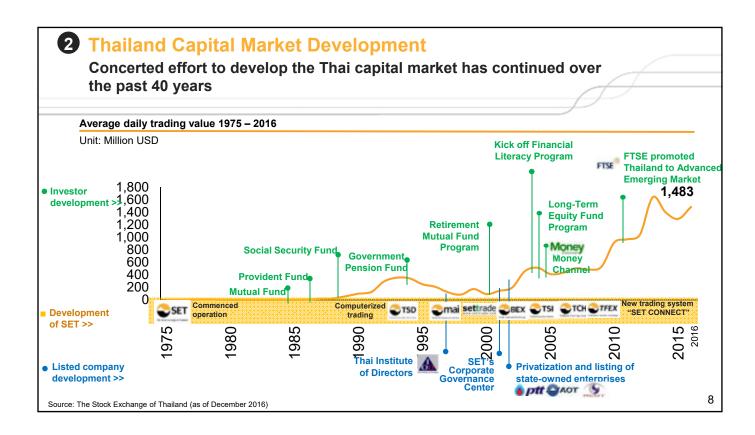


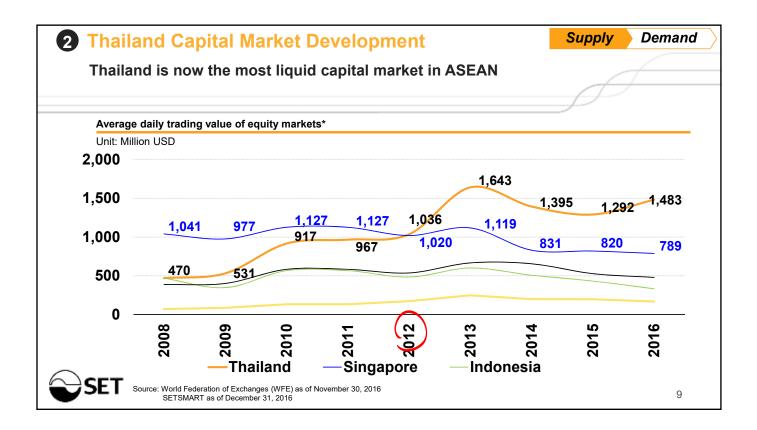


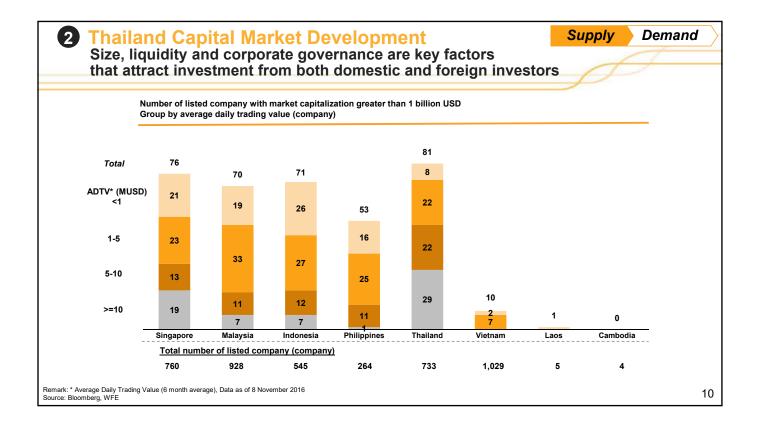


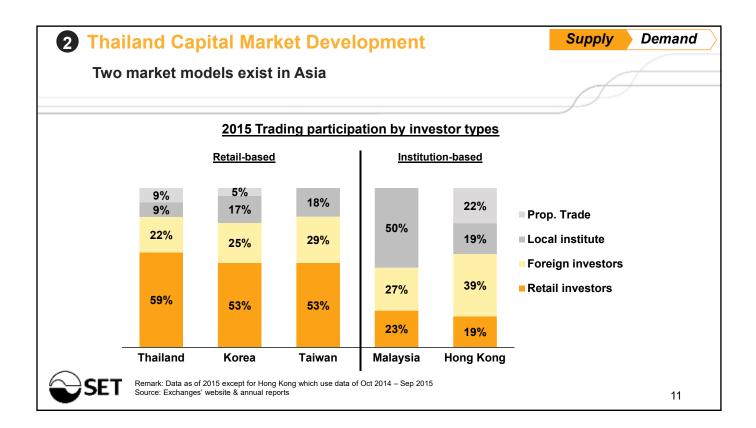


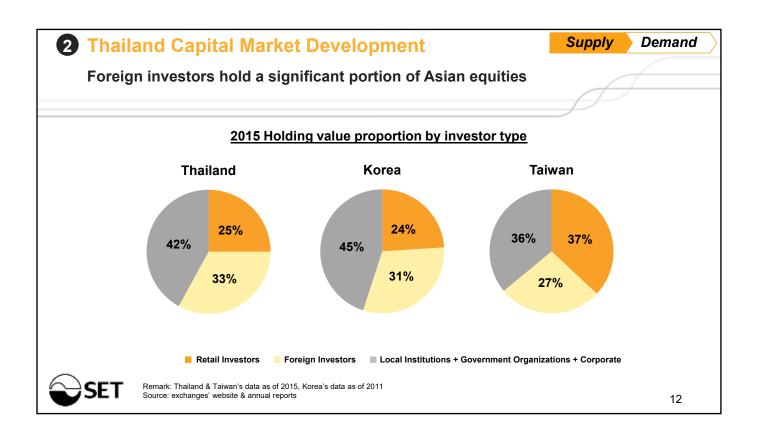


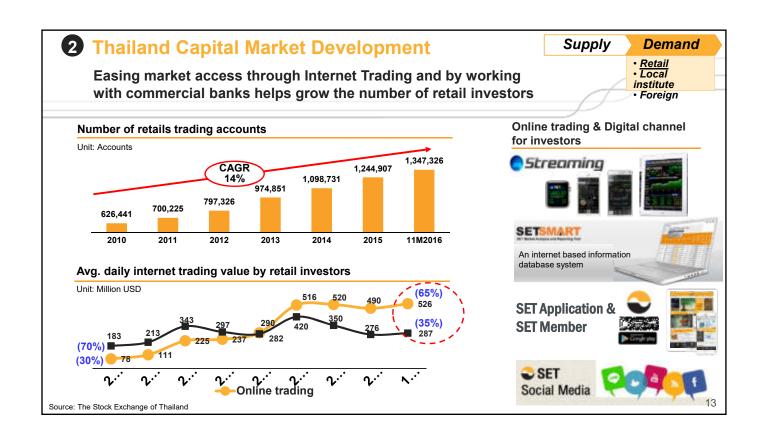


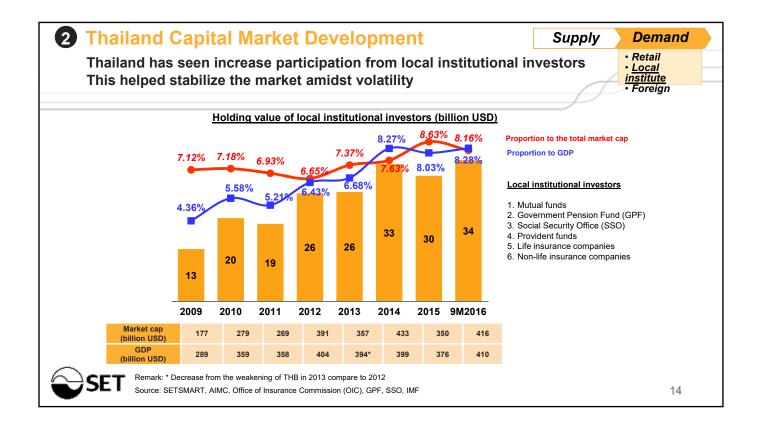


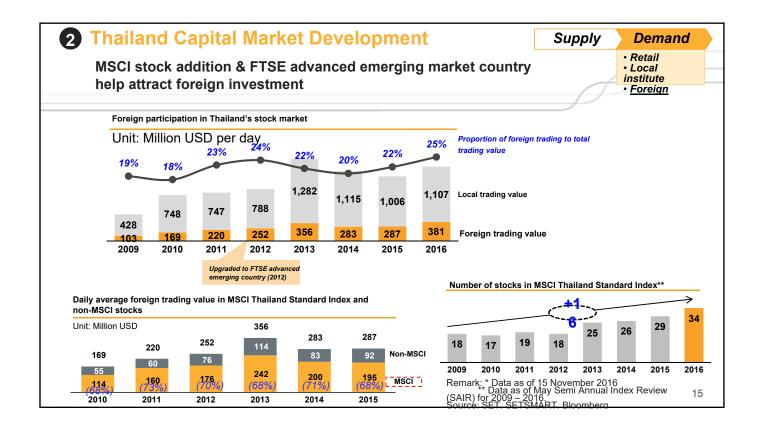


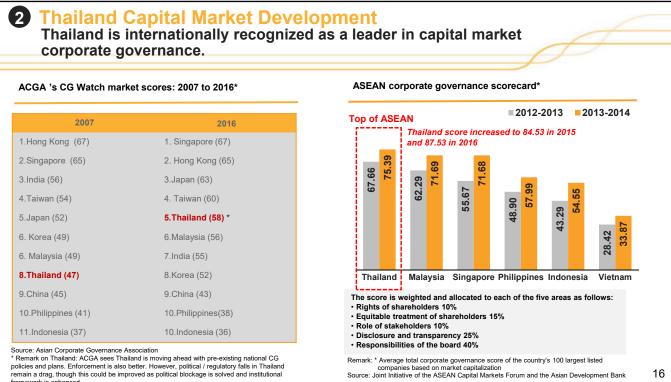








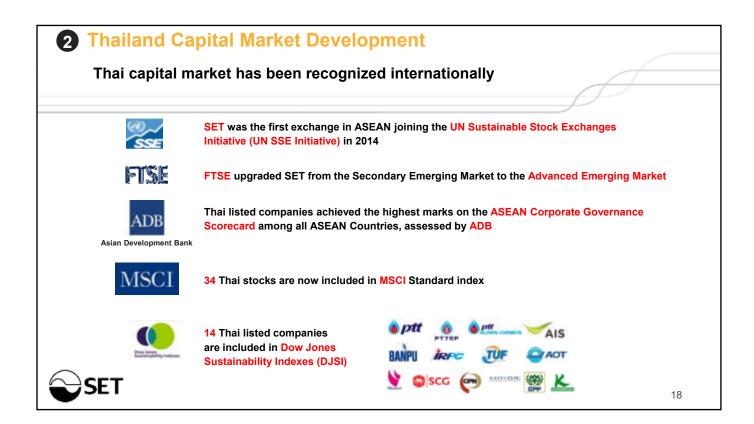




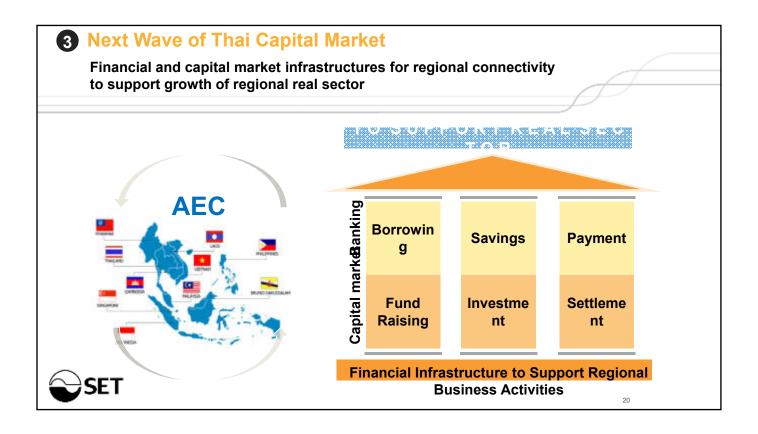
policies and plans. Enforcement is also better. However, political / regulatory falls in Thailand remain a drag, though this could be improved as political blockage is solved and institutional framework is enhanced.

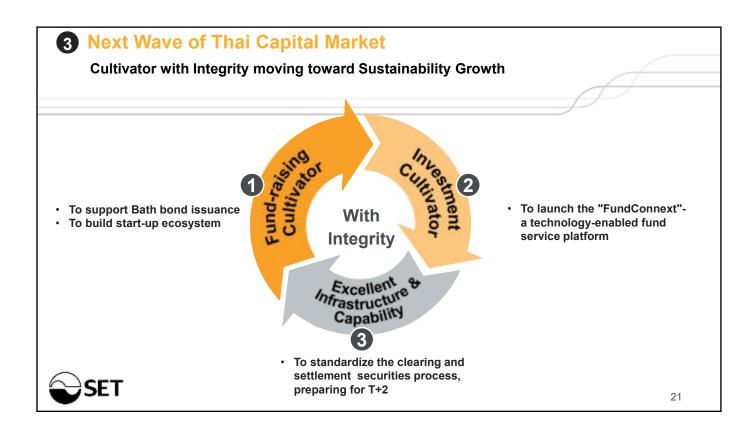
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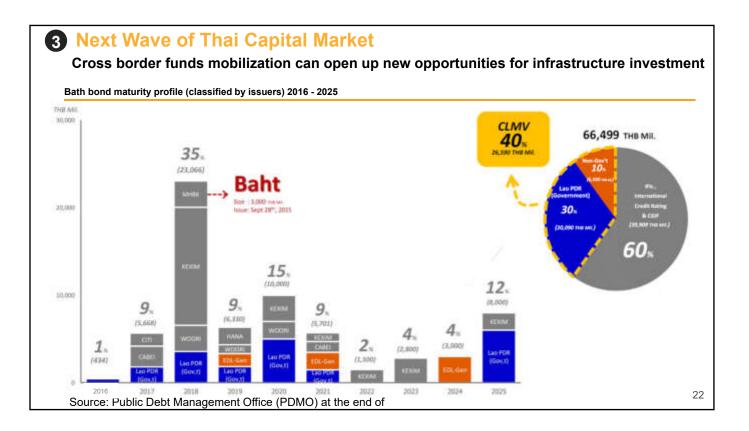
Size of IPO issued i	n ASEAN exchang	es		
Country	2013	2014	2015	2016
Singapore	5,196	2,550	319	1,659*
Thailand	6,447	3,447	4,241	1,504
Malaysia	2,835	1,251	1,312	299
Indonesia	1,669	768	878	1,043
Philippines	1,369	316	116	1,017



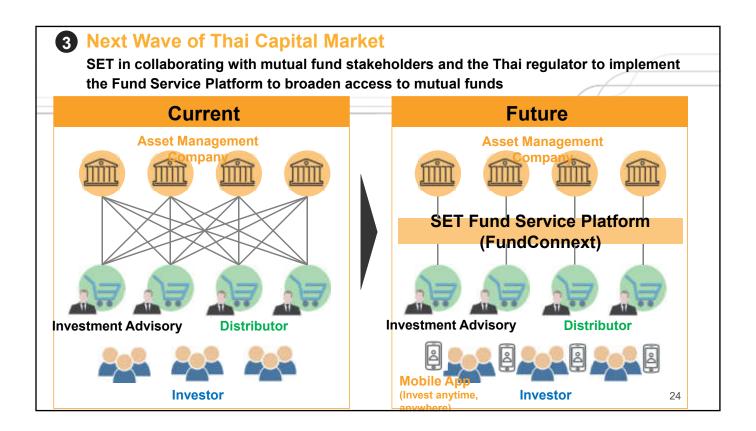


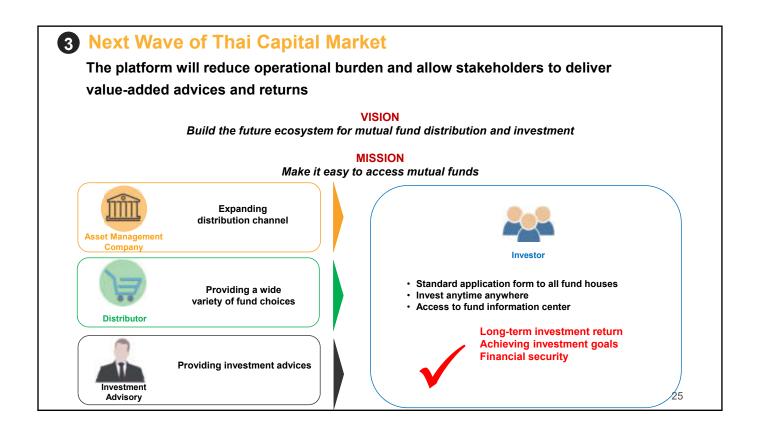


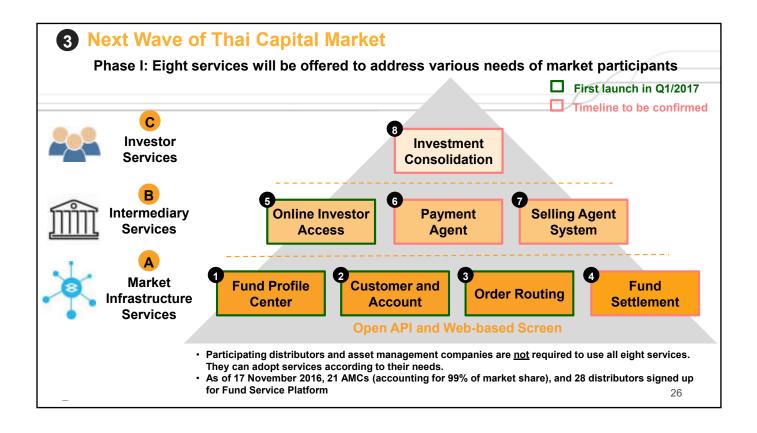




				\mathcal{P}
	Issue Date	Value (THB m.)	Tenor	Interest Rate (%, p.a.)
	May 2013	1,500	3 years	4.50
สายสองทางหนึ่ง	Dec 2013	434	3	4.70
	Dec 2013	2,566	5	5.20
Ainistry of Finance - THB Sovereign Bond	gn Bond to Oct 2014	1,794	3	4.67
stry of Finance issued Thai Baht Sovereign Bond to		1,830	5	5.20
nal and high net worth investors 9 series valued		1,466	7	5.50
		1,000	3	3.56
	Jun 2015	5,000	5	4.32
		6,000	10	5.00
	Total	21,590		
EDL-Generation Public	Issue Date	Value (THB m.)	Tenor	Interest Rate (%, p.a.)
Company Limited - THB Bond		1,500	5	4.95
LSX listed private power company has raised 6,500 M.THB for future hydropower projects	Dec 2014	2,000	7	5.20
expansion.		3,000	10	5.45









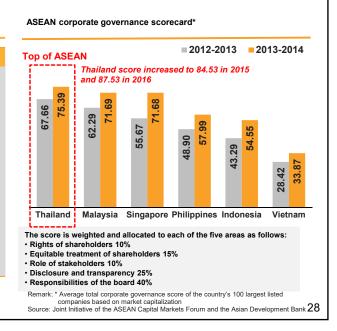
The Stock Exchange of Thailand

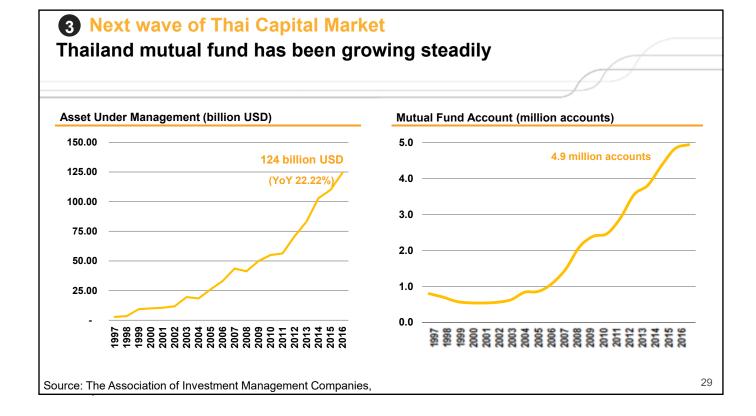
2 Thailand Capital Market Development Thailand is internationally recognized as a leader in capital market corporate governance.

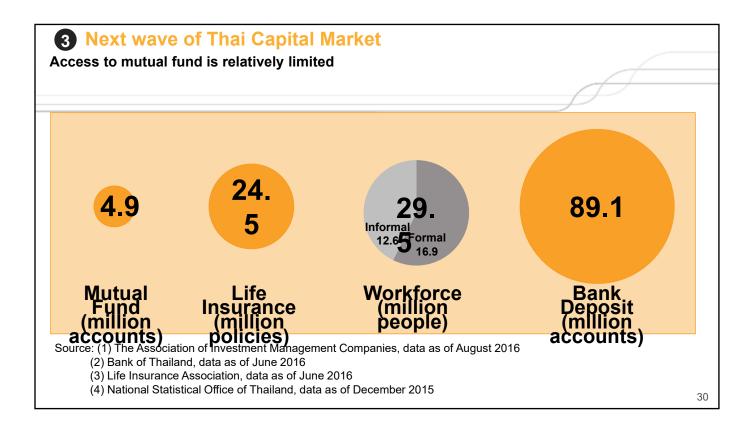
ACGA 's CG Watch market scores: 2007 to 2014*

2007	2010	2012	2014
1.Hong Kong (67)	1.Singapore (67)	1.Singapore (69)	1.Hong Kong (65)
2.Singapore (65)	2.Hong Kong (65)	2.Hong Kong (66)	1.Singapore (64)
3.India (56)	3.Japan (57)	3.Thailand (58)	3.Japan (60)
4.Taiwan (54)	4.Thailand (55)	4.Japan (55)	4.Thailand (58) *
5.Japan (52)	4.Taiwan (55)	4.Malaysia (55)	4.Malaysia (58)
6. Korea (49)	6.Malaysia (52)	6.Taiwan (53)	6.Taiwan (56)
6. Malaysia (49)	7.India (49)	7.India (51)	7.India (54)
8.Thailand (47)	7.China (49)	8.Korea (49)	8.Korea (49)
9.China (45)	9.Korea (45)	9.China (45)	9.China (45)
10.Philippines (41)	10.Indonesia (40)	10.Philippines(41)	10.Philippines(40)
11.Indonesia (37)	11.Philippines(37)	11.Indonesia (37)	10.Indonesia (39)

Source: Asian Corporate Governance Association * Remark on Thailand: ACGA sees Thailand is moving ahead with pre-existing national CG policies and plans. Enforcement is also better. However, political / regulatory falls in Thailand remain a drag, though this could be improved as political blockage is solved and institutional framework is enhanced.









Sub-Forum 2 AMBIF Tax Procedure

ADB Secretariat

24th ASEAN+3 Bond Market Forum (ABMF) in Bangkok, Thailand 17 January 2017

Scope of the study

Survey Objective:

- To identify withholding tax procedures for bonds issued under AMBIF program, with particular focus on professional investors
- □ **Tax on interest payment** : Taxable where income is generated. It is necessary to investigate taxation on <u>interest payment</u>.
- □ **Tax on income of investors**: Taxable on <u>income of residents</u>. But if interest is received outside of jurisdiction, withholding tax cannot be levied.
- Tax at the market of issuance: If issuers and investors are non-residents, some tax authorities may consider bond issuance in its jurisdiction is taxable because it regards as <u>doing business</u> in the jurisdiction.



ADB

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	Resident Investors	Non-Resident Investors
nterest Income	WHT : N/A	WHT : N/A
Capital Gains	CIT : Exempted or 50% concessionary rate if maturity is less than 3 years	CIT : N/A
exemption from profit		pect of Qualifying Debt Instruments (C



Hong Kong

5

Qualifying Debt Instruments:

It is a debt instrument specified in Part I of Schedule 6 of the IRO that:

- a) is in respect of a debt issue which in its entirety has been lodged with and cleared by the Central Money market Unit operated by the Monetary Authority (HKMA);
- b) is issued by a person and at all relevant times has a credit rating acceptable to the HKMA from a credit rating agency recognized by the HKMA;
- c) where it was issued prior to 1 April 1999, has a minimum denomination of \$500,000 or its equivalent in a foreign currency; or where it was issued on or after 1 April 1999, has a minimum denomination of \$50,000 or its equivalent in a foreign currency;
- d) is issued to the public in Hong Kong. From 25 March 2011 onwards, the instrument must be, at issuance, issued in Hong Kong to (i) 10 or more persons; or (ii) less than 10 persons none of whom is an associate of the issuer of the instrument. For definition of an "associate", please see Q10; and
- e) if it is a scripless instrument, it is one that would qualify in the terms of the definition of QDI if it were in a physical form.

The definition of "associate", in relation to the issuer of a debt instrument, can be found in section 14A(4) of the IRO. In essence, "associate" means any entity which controls the issuer, or is subject to the control of the issuer or is subject to the control of the same person as is the issuer, either directly or indirectly. However, companies which are associated merely because of common ownership by the central government of a country or its sovereign wealth funds or similar state-owned enterprises but in practice operate independently as separate commercial entities are not "associates". Relevant details can be found in section 14A(4A) of the IRO.



Japa	n		
	Resident Investors	Non-Reside	nt Investors
		Permanent Establishment	Non-Permanent Establishment
Interest Income	CIT : 15.315% (Separated taxation by filing)	Non-related person of Issuer & income not attributable to business WHT : Exempted CIT : Exempted Related Person of the Issuer or income attributable to business WHT : Exempted CIT : Subject to CIT in Japan	Non-related person of Issuer & income not attributable to business WHT : Exempted CIT : N/A Related Person of the Issuer WHT : 15.315% CIT : N/A
Capital Gains		Non-related person of the Issuer & income not attributable to business : Similar to Interest Income	Non-related person of the Issuer : Similar to Interest Income
7		Related Person of the Issuer or incor CIT : Subject to CIT in Japan & applicat	

Japan

Specially related person of the issuer :

A beneficial owner that is, for Japanese tax purposes, an individual non-resident of Japan or a non-Japanese corporation that in either case is a person who has a special relationship with the issuer of the securities as described in Article 6, paragraph (4) of the Act on Special Measures Concerning Taxation of Japan. Source : DTCC

Designated Financial Institutions :

- 1. Resident in Japan for tax purpose; and
- 2. A Japanese Bank, a Shinkin Bank, the Federation of Shinkin Banks, The Shoko Chukin Bank, The Norinchukin Bank, a life insurance company, a non-life insurance company or a certain financial instruments business operator as provided in Article 2, paragraph (9) of the Financial Instruments and Exchange law of Japan.

Gross Recipient (interest is free of deduction for withholding tax)

- 1. Non-resident individual or a non-resident corporation that are not a specially-related person of the issuer
- 2. Japanese "designated financial institutions" holding securities for its own account
- 3. Individual resident of Japan or a Japanese corporation whose receipt of interest is
- 8 made through a payment handling agent in Japan.



Malaysia			
	Resident Investors	Non-Resident Investors	
Interest Income	WHT : Exempted ¹	WHT : Exempted ²	
Capital Gains	CIT : Subject to CIT @ 24%	CIT : N/A	
 (a) in respect of securities (b) in respect of debenture (c) in respect of Bon Simpa Income Tax Act – Schedu Interest paid or credited to in Malaysia of such compa (a) in respect of securities 	r credited to any individual, unit trust and listed closed or bonds issued or guaranteed by the Government; o s or Islamic Securities, other than convertible loan sto anan Malaysia issued by the Central Bank of Malaysia ule 6 (Exemption from Tax) Section 33A any company not resident in Malaysia, other than suc	r ock, approved by the Securities Commission; or a. ch interest accruing to a place of business	

Philippines				
		Resident Investors	Non-Resident Investors	
	Interest Income	FWHT : 20% FWT GRT : 1% for maturity > 5 years or else 5% ¹	FWHT : 25% ² or else 30% FWT ³ CIT : N/A	
	Capital Gains	GRT : 7%	Exempted (under tax treaty)	

1. Applicable to banks and non-bank financial institutions. Can be pass-on to borrowers based on Revenue Memorandum Circular 62-2016 dated 13 June 2016. However, banks still incur taxes as it will be considered as "other fees and charges."

Non-resident alien stays in the Philippines for 180 days or less during the calendar year is considered a non-resident alien not engaged in trade or business in the Philippines, thus subject to a 25% final tax on gross income earned.
 Subject to applicable tax treaty, generally provide for a reduced tax rate of 10% to 15%. Treaties generally not

3. Subject to applicable tax treaty, generally provide for a reduced tax rate of 10% to 15%. Treaties generally apply if recipient of the interest carries on business in the Philippines through permanent establishment.



Singapore			
	Resident Investors	Non-Resident Investors	
Interest Income	Exempted for SGS and QDS, or else 15% final tax	Exempted for SGS and QDS, or else 15% final tax	
Capital Gains	N/A but considered as part of CIT. Concessionary rate of bond trading activities differs among different FCI award holders. - FSI-CM @ 5% - FSI-ST @ 12%	N/A	
Corporate income tax ra	Debt Securities (QDS), the deal must be substant ate varies depending on types of investors and wh ncessionary rates of 5%, 10% or 12% depending	nether they are FSI award holders. Qualifying	



Substantially managed in Singapore :

- 1. Not issued under a program any one of the following is satisfied:
 - i. lead manager is any, or if there is more than one lead manager, more than half of the lead managers are any or any combination, of the following:
 - (A) a financial sector incentive (capital market) company;
 - (B) a financial sector incentive (standard tier) company;
 - ii. if the issuer is a Singapore-based issuer ---
 - (A) more than half of the amount of gross revenue from arranging the issue is attributable to any or any combination of the following:
 - (AA) a financial sector incentive (capital market) company;
 - (AB) a financial sector incentive (standard tier) company; and

(B) more than half of the staff arranging the issue, of the company or cumulatively of the companies mentioned in sub-paragraph (A), are based in Singapore;



Singapore

Substantially managed in Singapore :

- 1. Not issued under a program (cont) :
 - iii. if the issuer is not a Singapore-based issuer -

(A) more than half of the debt securities issued under the issue are distributed by any or any combination of the following:

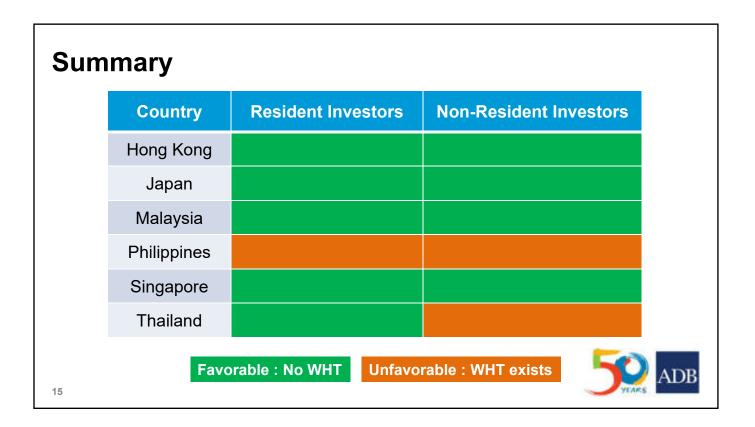
- (A) a financial sector incentive (capital market) company;
- (B) a financial sector incentive (standard tier) company;

2. Issued under a program -

i. the program as a whole is arranged on or after 1 January 2014 by a financial sector incentive (capital market) company or a financial sector incentive (standard tier) company;

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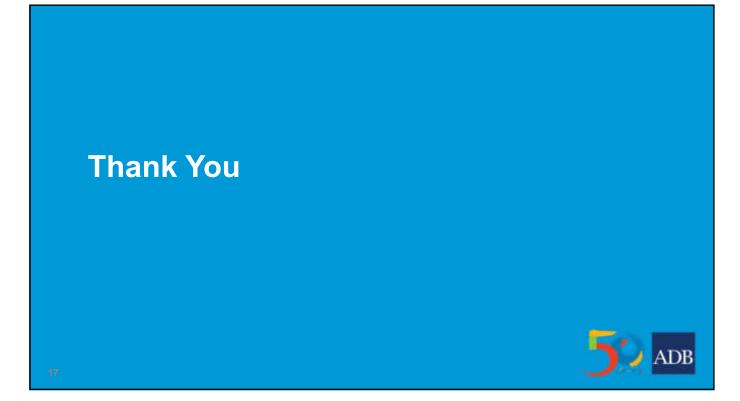
oted in case issuer are Thai commercial	WHT : 15%* depending on tax treaties, which may be reduced to
1%.	10%
t earned. Other	CIT : N/A
	ect to 3.3% business at earned. Other e subject to 20% CIT



Next Steps

- ADB has started discussion with BIR.
- BIR requested information regarding experience of other markets such as Thailand, Malaysia, and Japan.
 - How did they introduced the changes in taxation?
 - What was the discussion at the time?
 - What was tax implication for the change?
- BIR would like to understand possible impact of tax rule change.
 - Macroeconomic impact as well as impact on revenue.
- Inputs from ABMF members are highly appreciated.







PAYMENT AND SETTLEMENT SYSTEM DEVELOPMENT

FINANCIAL MARKET DEPARTMENT

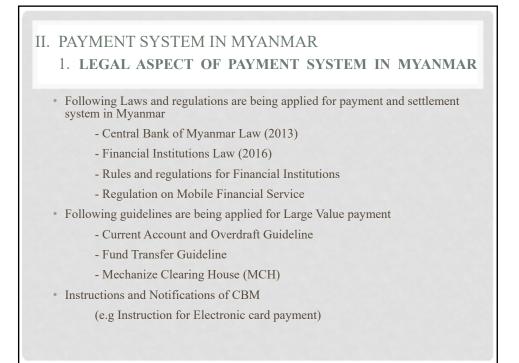
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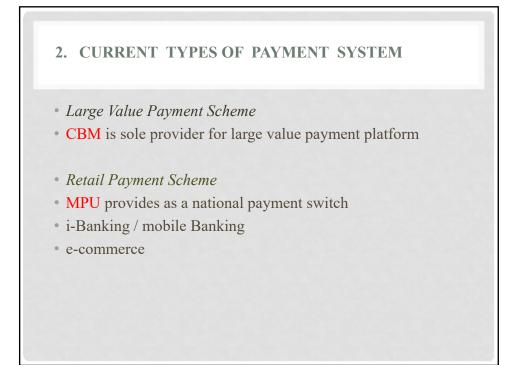
Su Su Nwe Deputy Director Financial Market Department Central Bank of Myanmar January 17, 2017

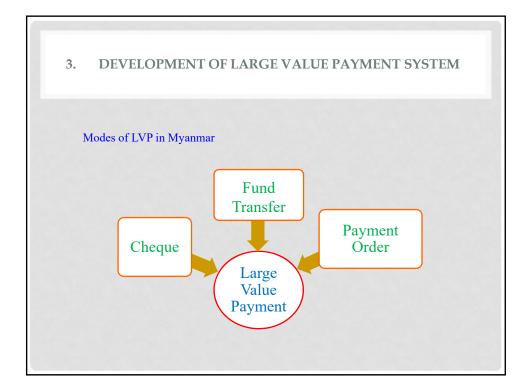
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I. INTRODUCTION

- One of the objectives of CBM is to develop efficient payment and settlement system
- CBM is taking responsible for the development of an efficient, fast, safe and reliable national payment system
- Myanmar has widely used cash payment system
- CBM is endeavoring not only for retail payment but also for Large value payment to fulfill the cashless society
- Payment Systems structure should be consistent with requirements of the Myanmar's economy with appropriate security level





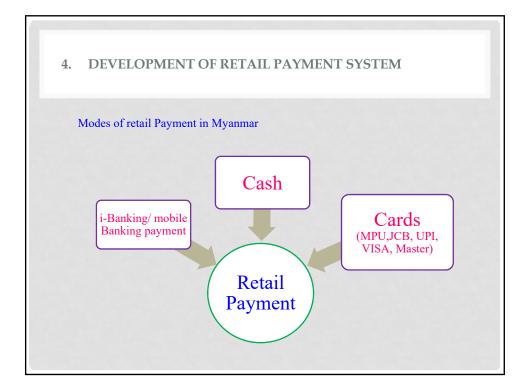


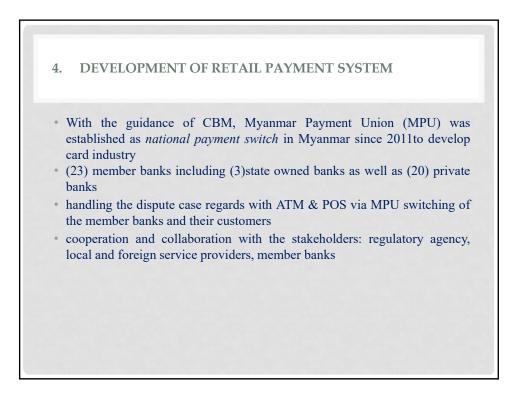
3. DEVELOPMENT OF LARGE VALUE PAYMENT SYSTEM

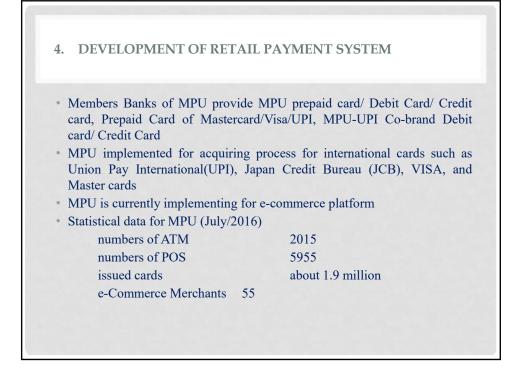
• Functions of CBM-NET

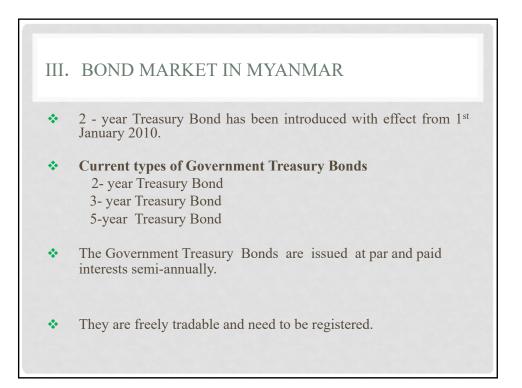
- Fund settlement (MMK)
- Fund settlement (FX)
- Collateral Management
- -T-bond / T-bill settlement
- DVP
- MCH clearing data settlement
- Gross settlement
- intraday overdraft facilities

		NT SYSTEM
CBM-NET time zone		
-preparation time	9:00 am - 9:30 am CBM	
-Service time	9:30 am - 4:00 pm CBI	N
	9:30 am - 3 :00 pm	FIs
-Batch job time	4:00 pm - 5:00 pm	CBM
Service time extension		
Clearing house change to	o Mechanize clearing house	
standardize cheque and l	-	
use encoder machine to		
reader /sorter machine		
MCH link to CBM-NET		
MCH data settle in CBM	1-NET every day	
	35	
 reader /sorter machine MCH link to CBM-NET MCH data settle in CBM 	1-NET every day	









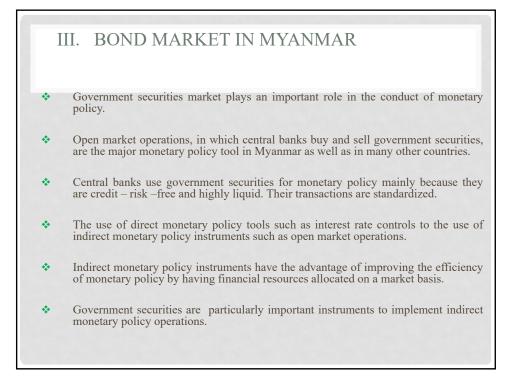


 Interest Rate (starting from January 1, 2011) 8.75% per annum for 2-year treasury bond 9% per annum for 3-year treasury bond 9.5% per annum for 5-year treasury bond
 Denominations Kyat ten thousand (K. 10,000) Kyat one hundred thousand (K. 100,000) Kyat one million (K.1,000,000) Kyat ten million (K.10,000,000) (introduced with effect from January 2010)

- III. BOND MARKET IN MYANMAR
 - The buyers of Treasury Bonds are State Owned Banks, Private Banks and Retail Investors.
 - The main investors are private banks to meet their reserve requirements and liquidity position in their daily settlement.
 - over 99% of the outstanding bonds are held by the Banks.
 - The outstanding amount of Treasury Bonds are increasing year by year.
 - Starting from 2015, CBM instructed all private commercial banks not to calculate T-bonds held at CBM in required reserves.

Myanma Economic Bank and Myanmar Securities Exchange Center (MSEC), have been appointed as underwriters for Government Treasury Bonds since 1st January 2010 to develop efficient market infrastructure and trading market for government bonds.

The CBM allows State Owned Banks and Private Banks to invest Treasury Bonds through their account with CBM.



- CBM has started discount window facilities since 1995 to give credit facility and current borrowing interest rate is 10% per annum.
- CBM has introduced overnight and overdraft facilities in 2016 when CBM-NET System established
- Deposit auction introduced in 2013 to absorb fund pursuant to monetary target, to allow market driven interest rates and to get more terms of deposits with greater participation by commercial banks.
- In addition the introduction of Treasury bill auctions in January 2015, in close cooperation with the MoPF and with technical assistance from the Fund, to reduce central bank financing of the fiscal deficit.



- CBM is trying to develop interbank market and has issued directives for bilateral interbank FX transactions including FX forward and SWAP transactions to develop the foreign exchange markets with the larger amount of liquidity available.
- The introduction of repurchase (Repo) is under the process. This aims to support the development of the banking sector and facilitate management of liquidity.
- ✤ A Repo Transaction is a contract in which a party (the seller) sells an asset at origination and simultaneously commits to by it back at maturity of the transaction at an agreed price. While the counterparty (the buyer) buys the asset and simultaneously commits to sell it back at maturity of the transaction at an agreed price.

- In the international markets, government budget and government bonds issuance plan are closely linked to each other.
- Government bonds are the most popular means of government financing.
- As for Myanmar, government fiscal deficit is financial by government treasury bonds and government treasury bills.
- MoPF makes as annual projection of issuance of bonds in consultation with CBM.
- MoPF focus the proportion of T-Bill and T-Bond's issuance.
- ✤ In the past, T-Bill was mostly financed by CBM.

III. BOND MARKET IN MYANMAR

- With the suggestions of the IMF to reduce the CBM's financing T-bill Auction started from January , 2015 to get public financing.
- Interest rate is determined by market interest rate.
- As of today, weighted interested rate is within 8% to 9% per annum.
- Currently, there are 3-month, 6-months and 12-month maturities for T-bill.

- The Securities and Exchange Law was enacted in July, 2013.
- Chapter 1 "Title and Definition" Article 2 (a): Securities include "treasury bills, treasury bonds, bonds and debentures issued or arranged to issue by the Government or any Government organization".

III. BOND MARKET IN MYANMAR

- Participation in the CBM-NET CSD may be direct or indirect. Direct participants are allowed to initiate securities transactions on their own behalf and on behalf of their customers and indirect participants.
- Financial institutions are eligible to apply the CBM-NET CSD participants.
- CBM-NET CSD participants must operate a settlement account with CBM and be a participant in the RTGS or utilize the services of and RTGS participant as settlement agent in respect of all securities transactions.

Government Securities Auctions

- Government T-bond auction is estimated to start during September 2016.
- Only persons who have an account with the Central bank of Myanmar's settlement system can register as bidders. Registration enables bidders to participant in securities auctions, deposit auctions, buy back, repurchase, switch auctions and credit auctions.
- At present, CBM, on behalf of the government, conducts government securities auctions.
- The settlement cycle is "T+2 day (Auction date plus two business days)".

CBM-NET CSD provides securities settlement services.

Secondary market development

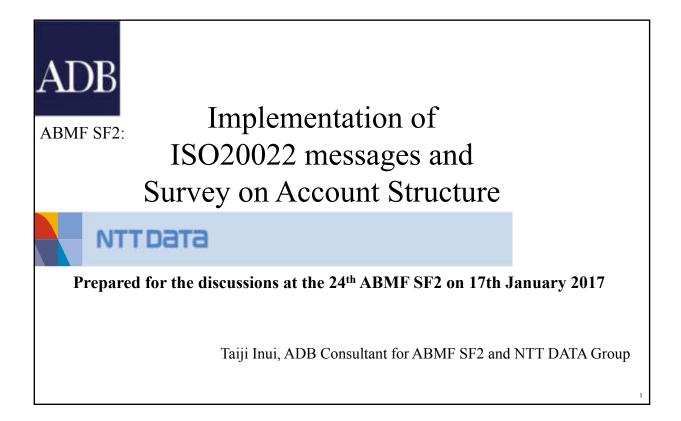
- An investor can buy and sell through securities companies and sale agents.
- Although there are increasing amount of Government bonds, there is almost no secondary market.
- Government bonds are frequently traded as MSEC and MEB.

IV. CONCLUSION

- CBM is implementing payment system development by setting up a Vision and strategy for National Payment System
- Myanmar is a member of WC-PSS that was organized for ASEAN Payment Banking Integration under ASEAN Economic Community (AEC) Framework
- CBM is highly objective to develop its payment system in line with ASEAN Payment Framework
- A market based financial system would enable a most efficient mobilization of funds that would effectively contribute towards a rapid and sustained economic development of the economy.
- In this context, Myanmar has to continue making efforts for further development of the bond market in coordination with the ASEAN community and other international organizations.

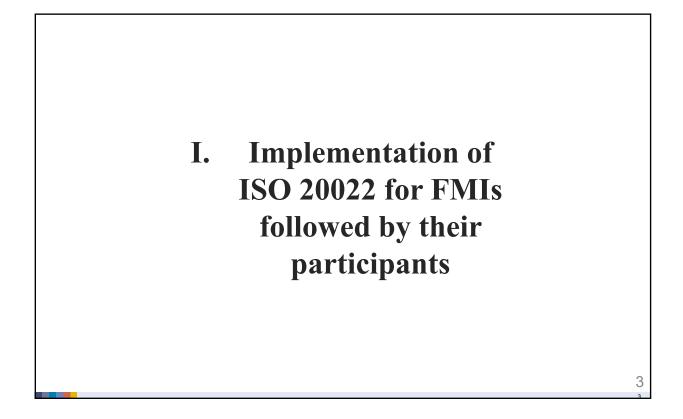


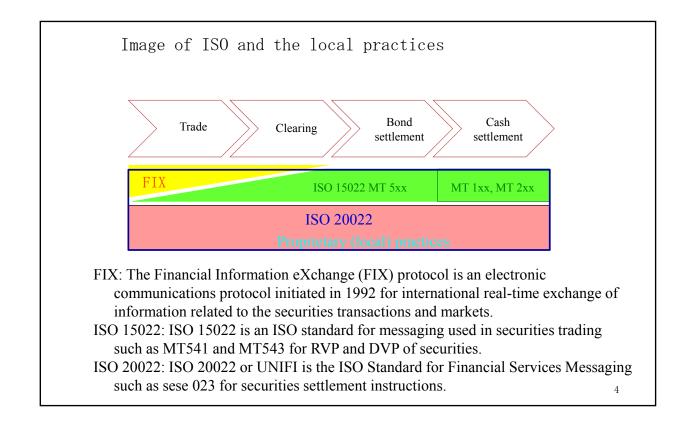


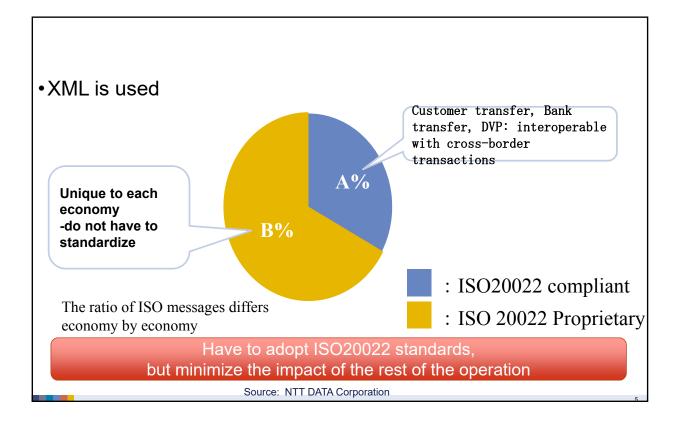


I. Implementation of ISO 20022 for FMIs followed by their participants

- **II.** Survey on Account Structure
- III. Outline of progress report including possible next steps



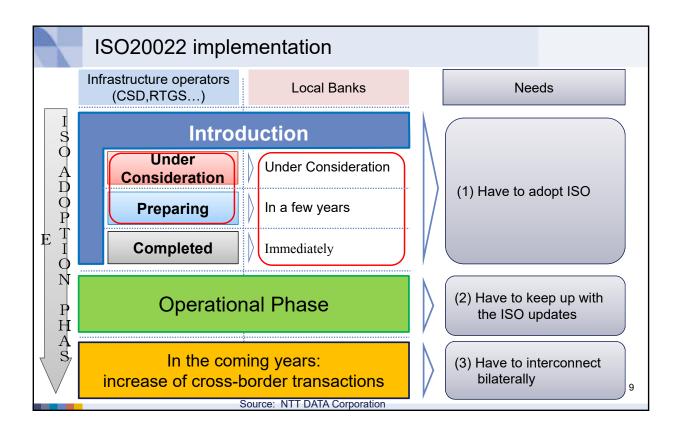




Without having standard such as ISO 20022, it is almost impossible to communicate with each other. Also, there are significant benefits to adopt ISO 20022 including global interoperability and flexibility as well as structured field capable of carrying rich data.

- 1. In order to adopt ISO 20022, it may be necessary to reconstruct the core banking system as well as financial market infrastructures (FMI)s.
- 2. Reconstructing the FMI needs huge investment cost. Also, not only MI but also core banking systems of the participants (banks) which have already invested huge money can't be reconstructed within a short period of time.

- 1. It is important for the market infrastructure to show roadmap (timeline) of adopting ISO 20022 clearly.
- Then, participants of the FMI can make their own roadmap to adopt ISO 20022.



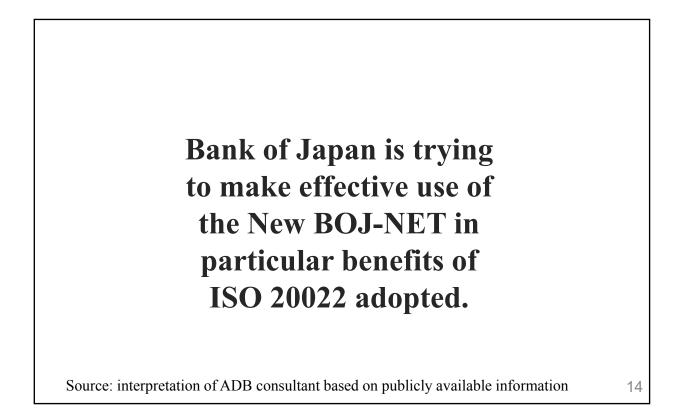
Implementation of ISO 20022 for FMIs followed by their participants

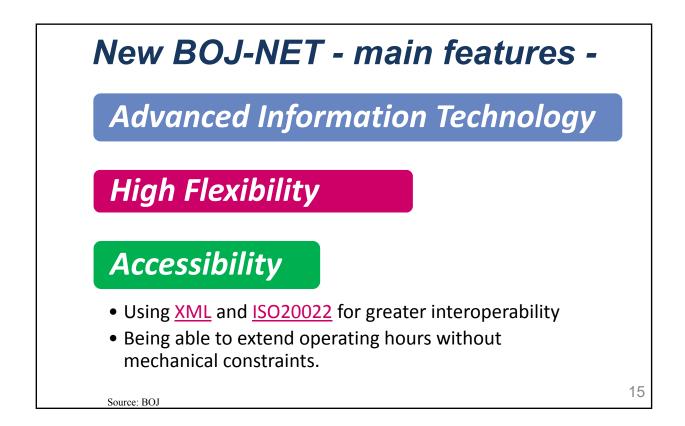
- 1. Dual track approach: Old standard and ISO 20022 coexist (not very much successful)
 - In 2011, Zengin System which is a domestic funds transfer system in Japan migrated to ISO 20022, but practically no participant used the ISO 20022.
- 2. Specifying sunset (decommissioning) period: Old standard and ISO 20022 coexist for a specific time period (e.g. for5 years)
 - In 2014 JASDEC's book-entry transfer system (BETS) migrated to ISO 20022 and announced that JASDEC will stop services of MT messages in 5 years. Most of the volume migrated to ISO 20022 in one year.
- 3. Big bang approach: Old standard is to be replaced by ISO 200022 without coexisting together.
 - In 2015 New BOJ-NET migrated to ISO 20022 decommissioning old standard immediately.

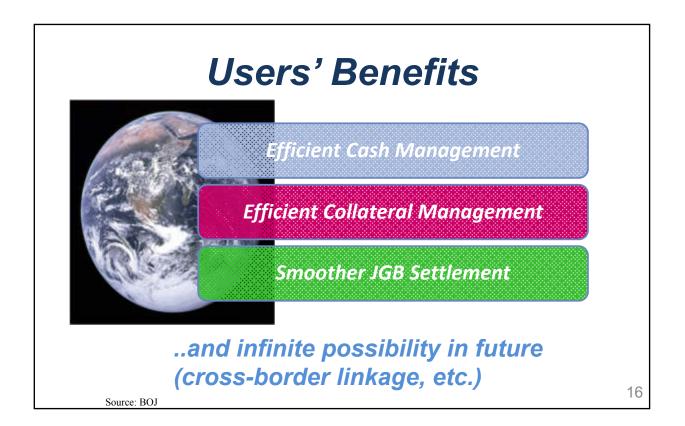
Implementation plan of ISO 20022

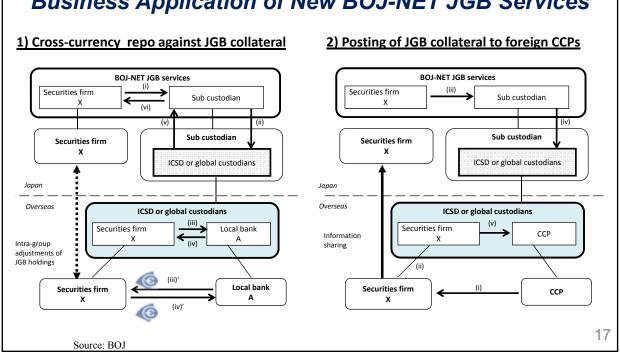
	CSD	Name of Bond Settlement System	Inst.	IS ISO15022	O ISO20022	ISIN	BIC	Charac. Code set	Comm protocol	Overall	Started operation
BN	AMBD	NPSS	G	N	Y (2016)	Y (2016)	Y	Y	Y	Y (2016)	-
BN	(TBD)	-	С	N	Y (201X)	Y (201X)	Y	Y	Y	Y (201X)	-
CN	CCDC	CBGS	G/C	N	Y	Y	Y	Y	Y	Y	2013
CN	CSDC	MNS	G/C	N	Y (201X)	Y (201X)	Y	Y	Y	Y (201X)	Nov 2011
CN	SHCH	SHCH-SSS	С	N	Y (201X)	Y (201X)	Y	Y	Y	Y (201X)	Dec 2011
HK	HKMA	CMU	G/C	Y	Ν	Y	Y	Y	Y	Y	Mar 1990
ID	BI	BI-SSSS	G	Y	Y (201X)	Y	Y	Y	Y	Y (201X)	Mar 2003
ID	KSEI	C-BEST	С	Y	Y (2017)	Y	Y(2017)	Y	Y	Y(2017)	
JP	BOJ	BOJ-NETJGB Service	G	Ν	Y	Y	Y	Y	Y	Y	Oct 2015
JP	JASDEC	BETS	С	Y	Y	Y	Y	Y	Y	Y	Jan 2014
KH	NBC	-	G	Ν	Y (202X)	Y (202X)	Y (202X)	Y (202X)	Y (202X)	Y (202X)	-
KH	CSX	-	С	N	(TBC)	(TBC)	(TBC)	(TBC)	(TBC)	(TBC)	-
KR	KSD	SSS/SAFE+	G/C	Ν	Y (201X)	Y	Y	Y (201X)	Y	Y (201X)	Nov 2011
LA	BOL	-	G	N	Y (202X)	Y (202X)	Y (202X)	Y (202X)	Y (202X)	Y (202X)	-
LA	LSX	-	С	Ν	(TBC)	(TBC)	(TBC)	(TBC)	(TBC)	(TBC)	-
MM	CBM	CBM-NET	G	N	Y (201X)	Y	Y	Y	Y	Y (201X)	Jan 2016
MM	CBM/YSX	-	С	N	(TBC)	(TBC)	(TBC)	(TBC)	(TBC)	(TBC)	-
MY	BNM	RENTAS SSTS	G/C	Y (2016)	Y (2018)	Y	Y (2016)	Y	Y	Y(2018)	Jul 1999
PH	BTr	BTr-ROSS	G	Y (2015)	Y (201X)	Y (201X)	Y (201X)	Y	Y	Y (201X)	Nov 1996
PH	PDTC	PDTC Depository	G/C	Y (2015)	Y (2015)	Y (2016)	Y (2016)	Y	Y	Y (2016)	Mar 1995
SG	MAS	MEPS+ SGS	G	Y	Ν	Y	Y	Y	Y	Y.	Dec 2006
SG	CDP	DCSS	С	Y (2015)	Y	Y	Y	Y	Y	Y	2015
TH	TSD	PTI	G/C	Y	Y(201X)	Y	Y	Y	Y	Y(201X)	Oct 2007
VN	VSD	VSD-BES	G/C	Y	Y(201X)	Y	Y (201X)	Y	Y	Y (201X)	May 201

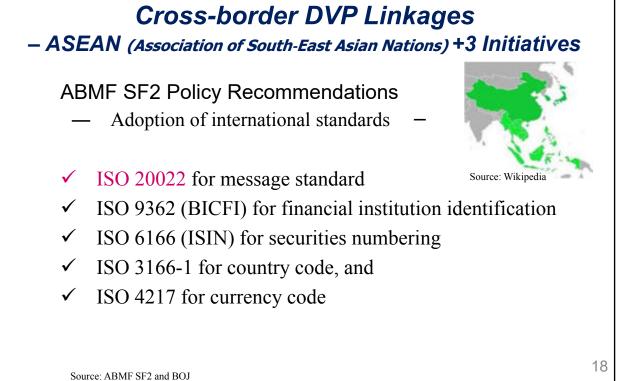
'N PH	MBD BOC KMA	HVPS	MT messages N N	ISO20022 Y	Y	Y	Y	Y	2015
'N PH	BOC	HVPS							
K Hk	KMA	CHATS			Y	Y	Y	Y	2013
D		CHATS	Y	N	Y	Y	Y	Y	Dec 1996
	BI	BI-RTGS	Ŷ	Y (2017)	Y	Y	Y	Y (2017)	Nov 2000
P E	BOJ H	BOJ-NET FTS	N	Y	Y	Y	Y	Y	2015
H N	NBC	-	N	Y (201X)	Y (201X)	Y (201X)	Y (201X)	Y (201X)	
R B	BOK	BOK-Wire+	N	Y (201X)	Y	Y	Y	Y (201X)	Apr 2009
A B	BOL	-	Y	Y (201X)	Y	Y	Y	Y (201X)	
IM C	CMB	CBM-NET	Ν	Y (201X)	Y	Y	Y	Y (201X)	Jan 2016
IY B	BNM R	RENTAS IFTS	Y (2016)	Y (2018)	Y(2016)	Y	Y	Y(2018)	2011
H E	BSP	PhilPaSS	Y	Y (201X)	Y	Y	Y	Y (201X)	Dec 2002
G M	/AS	MEPS plus	Y	N	Y	Y	Y	Y	Dec 2006
Н В	вот	BAHTNET	Y	Y (2019)	Y	Y	Y	Y (2019)	2013
'N S	SBV		N	Y (2019)	Y (2019)	Y (2019)	Y (2019)	Y (2019)	2010



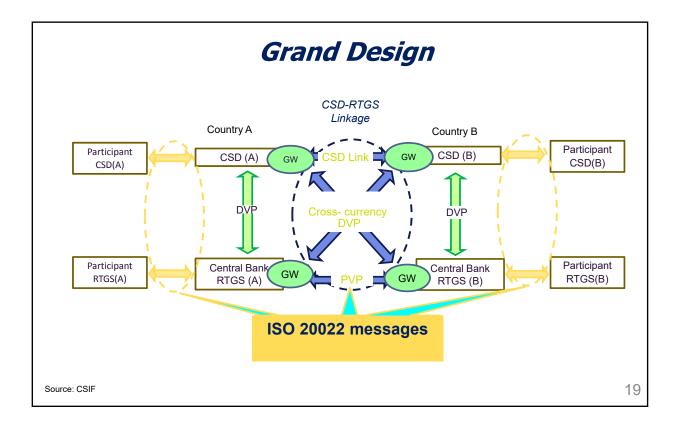


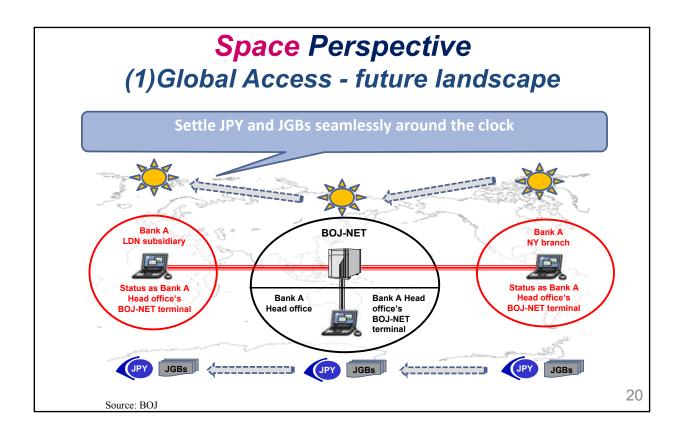






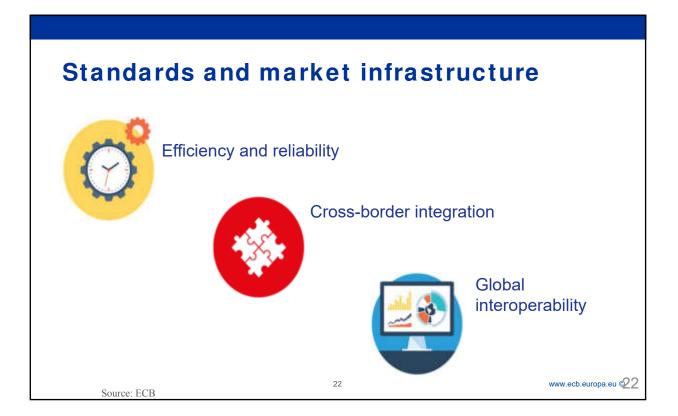
Business Application of New BOJ-NET JGB Services



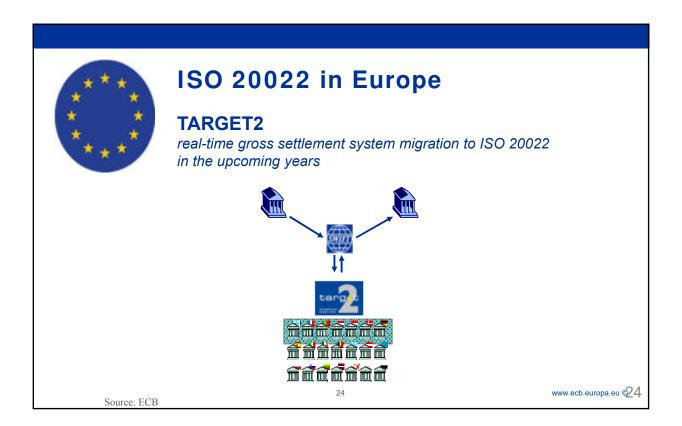


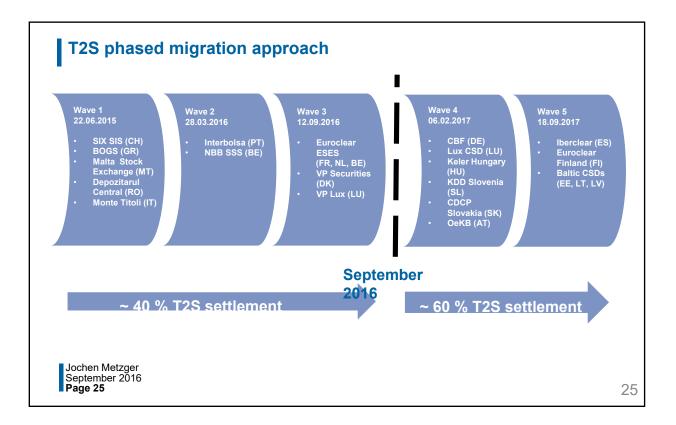
Adoption of ISO 20022 in Europe and US

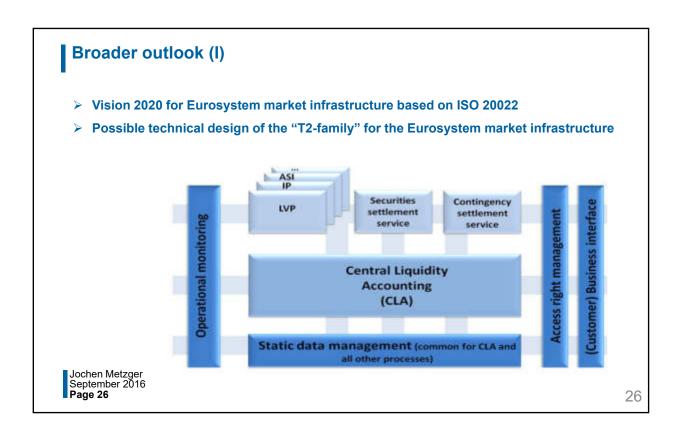
Source: interpretation of ADB consultant based on publicly available information

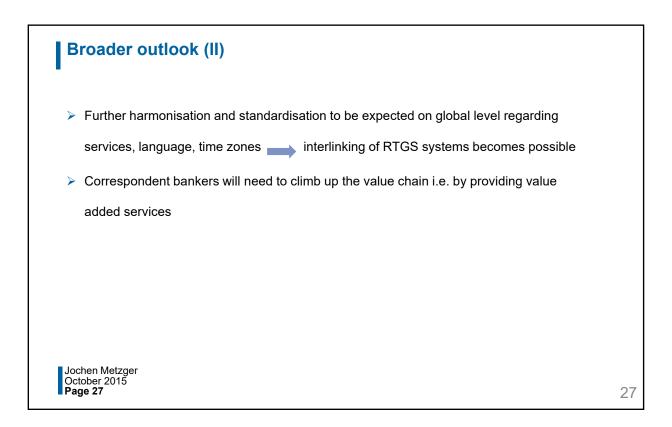


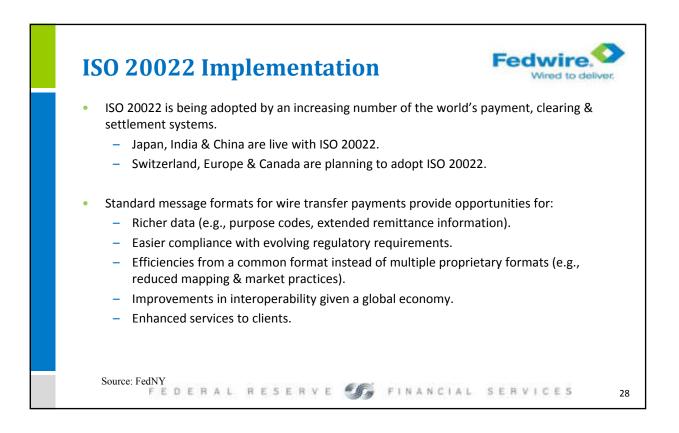


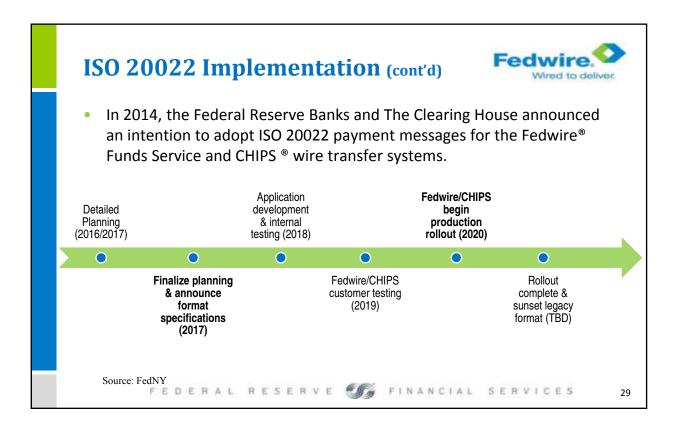






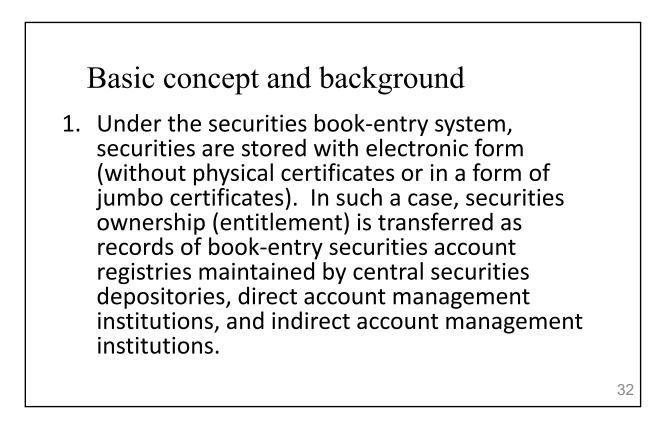


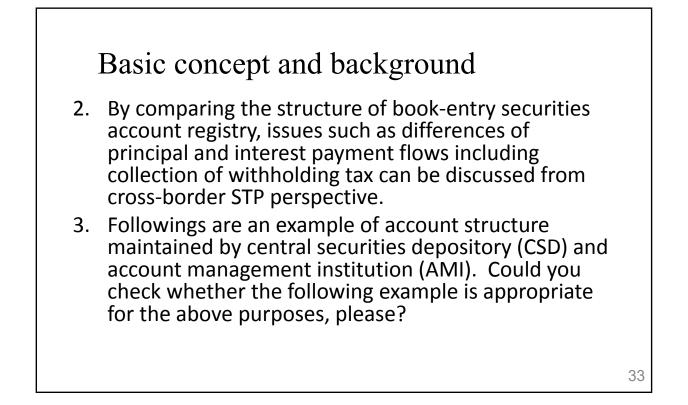


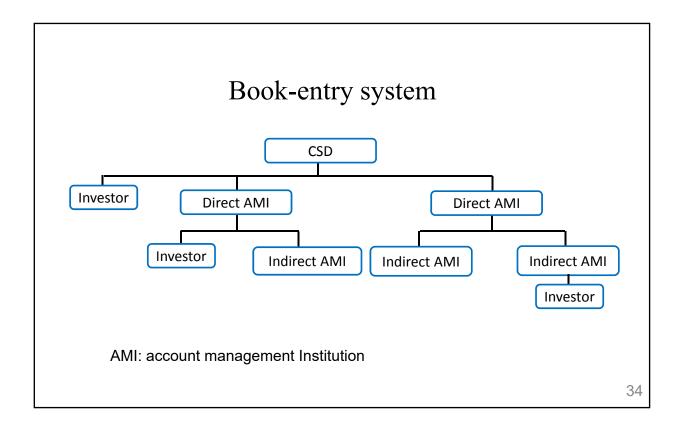




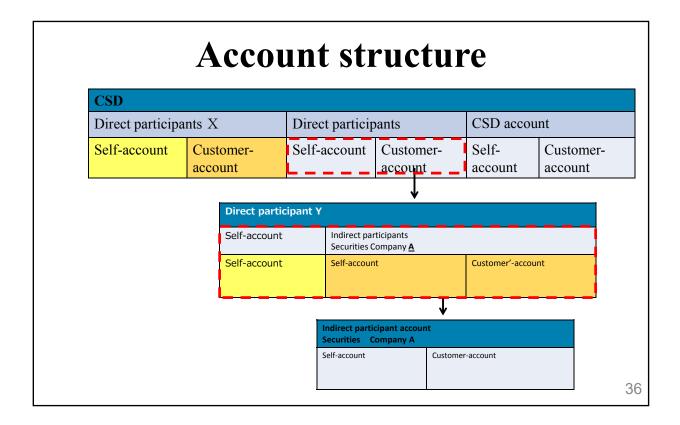
II. Survey on Account Structure







- 1. Multi-layer holding structure shall be composed of central securities depository, direct account management institutions (AMIs), indirect AMIs, and investors.
- 2. Direct AMI opens accounts at central securities depository (CSD) for its own, indirect AMIs, and investors.
- 3. Indirect AMIs opens accounts at Direct AMI or upper positioned indirect AMIs for its own securities, lower positioned AMIs, and investors.

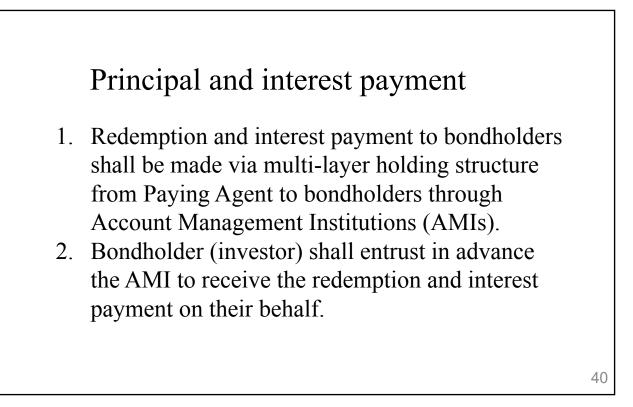


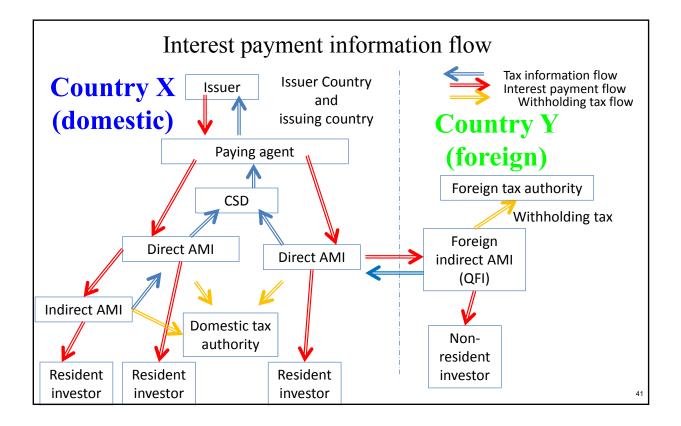
Book-entry securities account registry structure

Self-account (proprietary	Holding-account	Withholding tax not imposed	XX
ledger)		Withholding tax imposed	XX
	Pledge-account (pledge ledger)	Withholding tax not imposed	XX
		Withholding tax imposed	XX
Customer-account ledger)	nt (customer	Withholding tax not imposed	XX
		Withholding tax imposed	XX
Trust acco	unt is not included here		
		operational rules of JASDEC	

Self Account: An account in the book-entry securities account registry, where participants (AMIs and investors)' rights relating to securities are recorded digitally or recorded in written entries.	
Customer Account: An account of an AMI in the book-entry securities account registry, where the rights of Participants of the AMI or one of its Lower Positioned Institutions relating to securities are recorded digitally or recorded in written entries.	
Pledge Account: A Self Account where Participants (AMIs and investors)' pledge-related rights as pledgees are recorded digitally or recorded in written entries.	
 Holding Account: A Self Account where rights (other than the rights recorded in Pledge Accounts) are recorded digitally or recorded in written entries. Trust Account: A Pledge Account or Holding Account where trust assets are recorded digitally or recorded in written entries when the 	
Participant (AMI) is the trustee of a trust. Source: ADB consultant based on operational rules of JASDEC	38

Possible account identifications Book-entry securities account identification Financial institution code such as BICFI (8) + Issue of securities such as ISIN + Account structure code Cash account identification Financial institution code such as BICFI (11)





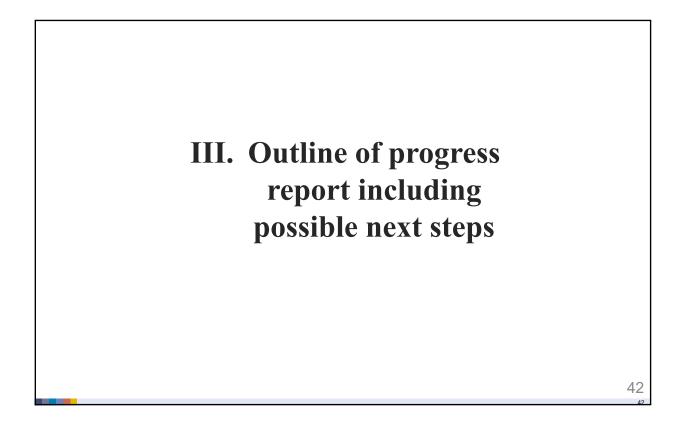


Table of Contents

- 1. Introduction
- 2. Current Activities
 - a. Survey on implementation of international standards and possibility of regional standards
 - b. ISO 20022 messages for DVP
 - c. Supporting countries/economies which are trying to implementation of ISO20022
 - d. AMBIF Tax Issues
 - e. Roadmap
- 3. Next Steps
 - a. ABMF Workshop to Implement ISO 20022
 - b. Account Structures and Tax Procedures
 - c. Regulatory Reporting
 - d. Qualified Foreign Intermediary

