


INSW – ASW

Business & Technology Perspective



OBJECTIVE OF Framework Agreement on Facilitation of Cross-border Paperless Trade in Asia and the Pacific

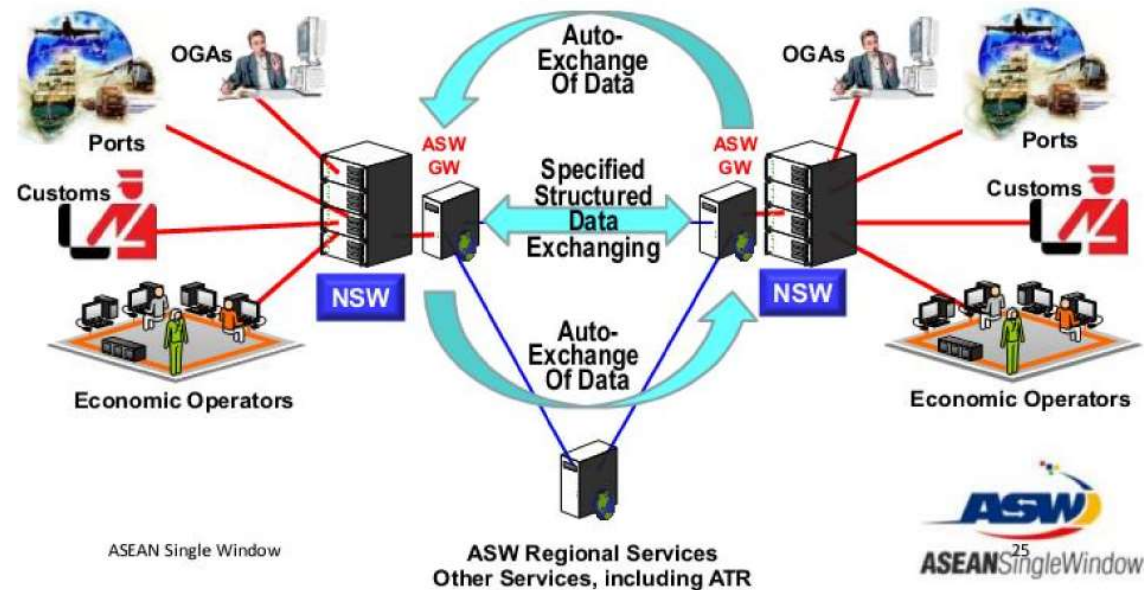
To promote *crossborder paperless trade* by enabling the *exchange and mutual recognition of traderelated data and documents in electronic form and facilitating interoperability among national and subregional single windows* and/or other paperless trade systems, for the purpose of *making international trade transactions more efficient and transparent while improving regulatory compliance*

logistic cost saving Impact after ASW

- Document Courier Cost
 - Courier Cost of hardcopy ATIGA Form D among ASEAN SINGLE WINDOW.
 - Assuming courier cost of ATIGA Form D Documents (incl insurance) each document is 50 USD, statistic of document exchange per year is 80 thousands documents under ASW, Total Cost Saving = $80.000 \times 50 \text{ USD} = 4 \text{ Million USD}$
 - Container Storage Cost
 - Container Storage Cost, reduced :
 - Assuming Port Storage Cost per day 20 USD, average container dwelling time because of hardcopy ATIGA Form D = 7 days, Total Cost Saving = $80.000 \text{ container} \times 140 \text{ USD} = 11.2 \text{ Million USD}$
- Total Potential of Saving after ASW implementation = 15.2 Million USD per year

ASEAN SINGLE WINDOW

The Architecture of ASW



The Difference Between INSW Architecture Approach with ASW

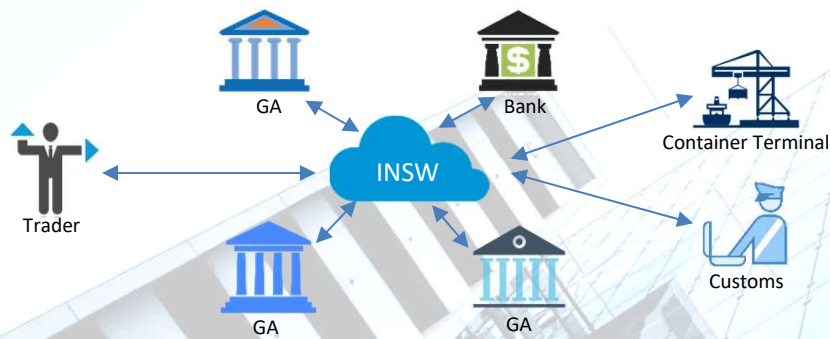
- INSW
 - Centralized, Connection of related stakeholders has to go through INSW, for trade data, statistical, and data logging
- ASW
 - Decentralized, Connection between NSW's of ASEAN Memberstates go directly with relevant ASW Gateways, there are no physical central hub for trade data exchange, except regional services server for transaction logging process

■ Future of Single Window System

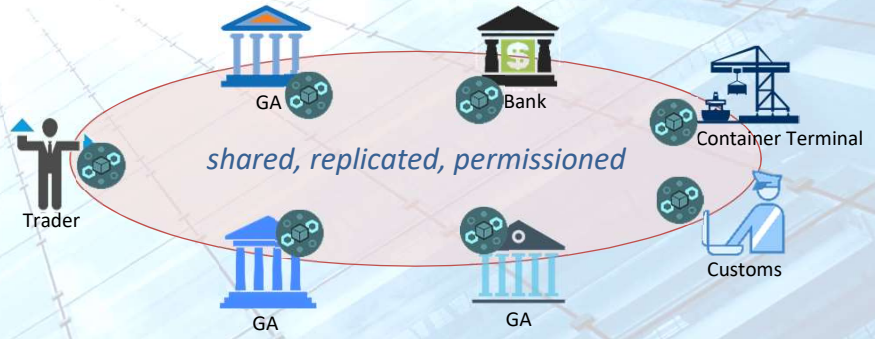
- Using 'Blockchain' Approach → increase issue of data transparency, security and consistency

Blockchain is safe, secure, and scalable foundation...

Current Condition



Blockchain Solution



Blockchain Technology



Blockchain Benefits



Sample of Actors, documents, and events...

Flow of documents of customs clearance from Importer to Container Terminal



Registers 3 documents on the private shared ledger



Company Registration



Import Registration



Import Declaration



Permit License



Release Approval

Events



Issuance of
Company ID



Issuance of
Registration ID

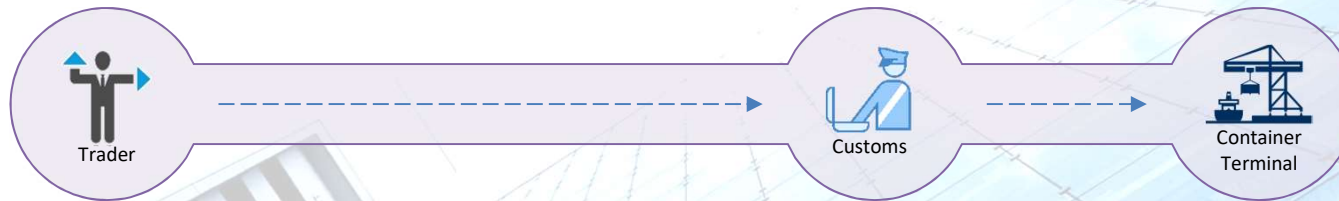


Issuance of
Permit License



Customs Declaration
Validation

Register release approval...



Blockchain shared ledger



Import Declaration



Permit License



Release Approval

KEMENTERIAN KEUANGAN REPUBLIK INDONESIA
DIREKTORAT JENDERAL BEA DAN CUKAI
KANTOR PELAYANAN UTAMA TANTUNG PRIOK

SURAT PERSETUJUAN PENGELUARAN BARANG (SPPB)
Nomor : 123/SPPB Tanggal : 31-08-2017

Nomor Pengajuan : 000000-000123-
Nomor Pendaftaran PIB : 1234-30-1234-31-08-2017
Kepada : 56

Importir : PT IMPORTIR-901 734
Nama : KAWASAN INDUSTRI SUNTER - JAKARTA
Alamat :

PEJAK :
NEWP :
Nama :
Alamat :
NP PEJK :

Lokasi Barang : TEMA / SD & LAP - LAUTAN TIRTA TRANSPORTAMA
No. B/L atau AMB : BL-123-2017 Tanggal : 03-07-2017
Sarana Pengangkut : KAH HAI 503W
No. Voy./Flight : 503W Tanggal : 31-08-2017
No. BC 1.1 : 123456 Pos : 0406 0000 0000
Jumlah/jenis kemasan : 123456 Berat : 3,192.76
Merk kemasan : -

Jumlah peti kemas : 0
Nomor Peti Kemas/ Ukuran : -

No.	No.Peti Kemas	Ukuran	Penegahan	Ket	No.	No.Peti Kemas	Ukuran	Penegahan	Ket

Catatan pengeluaran : Jalur MITA/ AEO

Automatically validated by Trusted Members



Trader



Customs



Container Terminal





Blockchained data tracking...

TRACKING DATA : S-I-002512-20170825-000115

Pencarian: ☐ Seluruh Kata

Tampilkan Data

STATUS	STATUS BY	SUBMITTED	CONCENCUS	BLOCKCHAIN RECORD ID	ATTACHMENT	NOTES
Gate Out	Container Terminal	04-09-2017 12:29	04-09-2017 12:31	74c34bad7c78f283814095079045c83b		-
BC - SSPB Dokumen dikirim ke INSW	Bea Cukai	04-09-2017 12:22	04-09-2017 12:27	5a656f802874b96c68213b2b5ec4cd47		-
BC - SPPB	Bea Cukai	04-09-2017 12:16	04-09-2017 12:21	e12266bd58ba2aa810cee21800425240		-
BC - Penerimaan	Bea Cukai	04-09-2017 11:42	-	-		-
BC - Proses Kepabeanan	Bea Cukai	04-09-2017 11:34	-	-		-
INSW - Selesai	Bea Cukai	04-09-2017 11:21	-	-		-
INSW - Perijinan dikirim ke INSW	INSW	04-09-2017 11:19	04-09-2017 11:19	1167881c10c40281a92b		-
INSW - Proses GA	GA	04-09-2017 11:04	04-09-2017 11:04	ae0a51aa02a3af1dbff1bc2f04c687d		-
INSW - Proses GA	GA	04-09-2017 10:47	-	-		-
INSW - Penerimaan GA	GA	04-09-2017 10:34	-	-		-
INSW - Perijinan	INSW	04-09-2017 10:31	04-09-2017 10:32	cb790ab3b07bac65505627242d96af9c		-
INSW - Lengkap	INSW	04-09-2017 10:15	-	-		-
INSW - Draft	Importir	04-09-2017 10:03	-	-		-

Jumlah Data : 16

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Remember, in Blockchain, all transaction among stakeholders are being 'shared', so the key of the success is the 'trust' among stakeholders

Remember, Technology is just an Enabler, The primary key of the success is coming from the 'People' and 'Commitment'

THANK YOU

