

GMS LOGISTICS FORUM 2021

Pattaya 25-26 March 2021

Logistics and Transport Network: ESCAP Initiatives and Countries' Policy Responses to the COVID-19 Pandemic

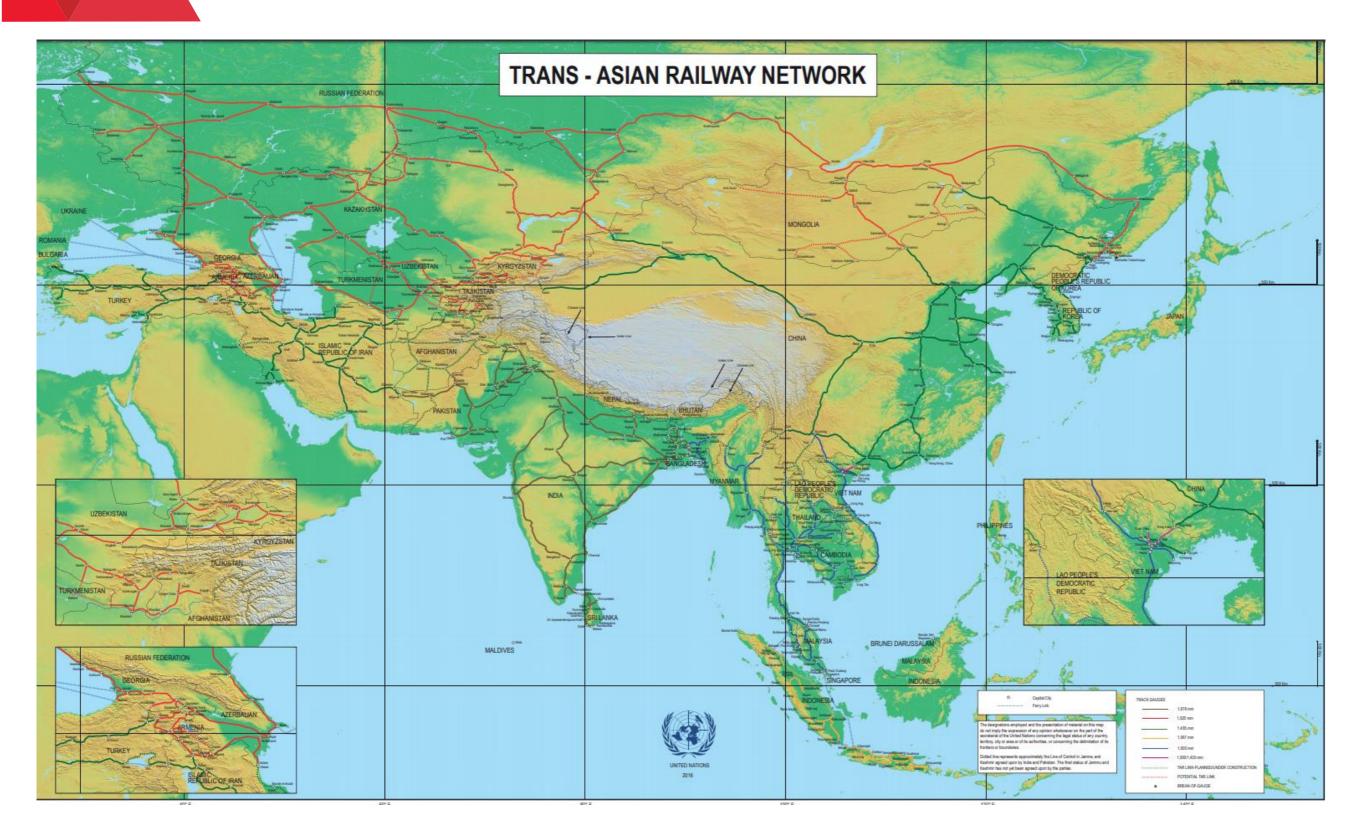


Economic Affairs Officer Transport Division





Trans-Asian Railway Network





Trans-Asian Railway Network: overview

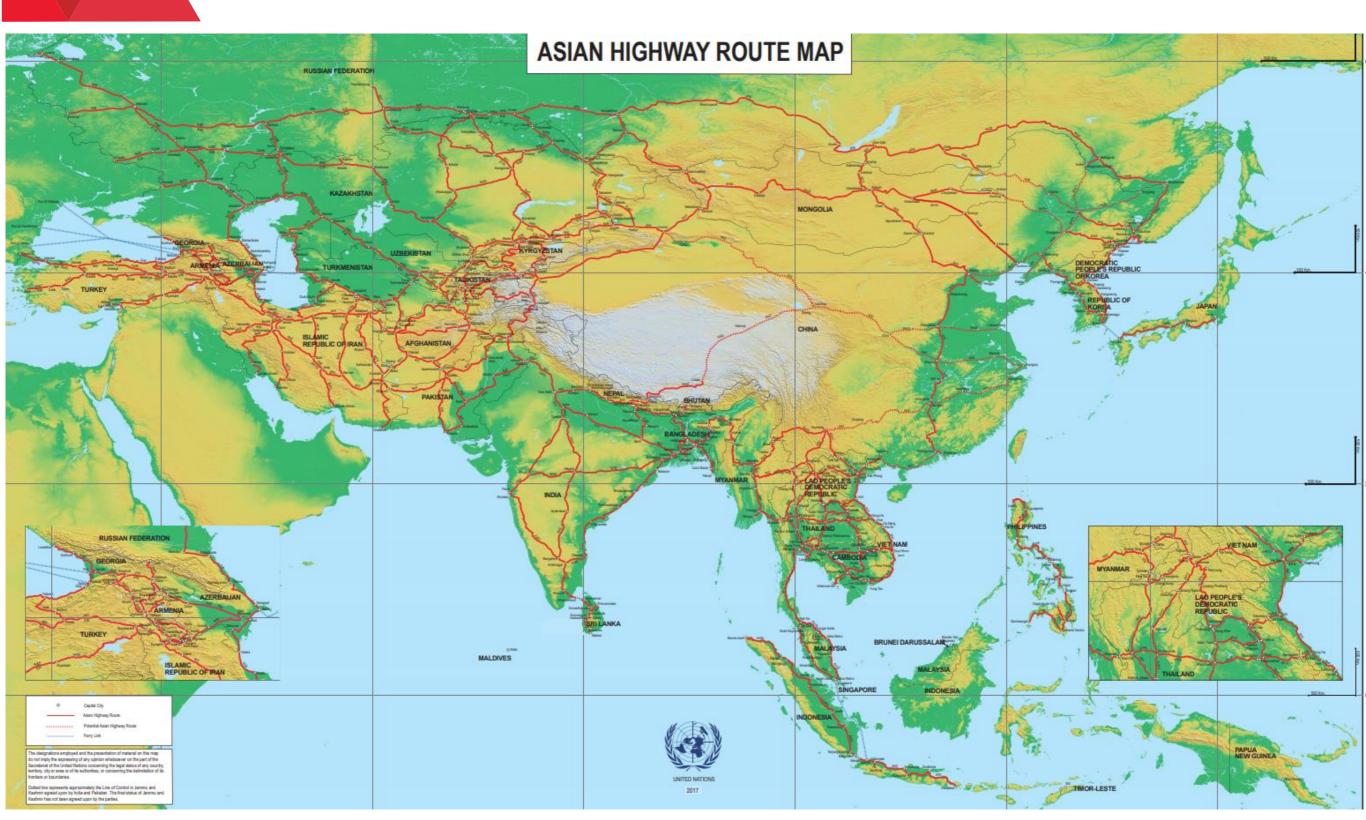
Participant	Signature
Armenia	10 Nov 2006
<u>Azerbaijan</u>	10 Nov 2006
Bangladesh	9 Nov 2007
<u>Cambodia 1</u>	10 Nov 2006
<u>China 2</u>	10 Nov 2006
Democratic People's Republic of Korea	
Georgia	18 Dec 2007
<u>India</u>	29 Jun 2007
Indonesia	10 Nov 2006
Iran (Islamic Republic of)	10 Nov 2006
Kazakhstan	10 Nov 2006
Lao People's Democratic Republic	10 Nov 2006
Mongolia	10 Nov 2006
Nepal	10 Nov 2006
Pakistan	28 Jan 2008
<u>Republic of Korea</u>	10 Nov 2006
Russian Federation	10 Nov 2006
Sri Lanka	10 Nov 2006
Tajikistan	10 Nov 2006
Thailand	10 Nov 2006
Turkey	10 Nov 2006
Turkmenistan	
Uzbekistan	10 Nov 2006
Viet Nam	<mark>10 Nov 2006</mark>

- Intergovernmental Agreement on the Trans-Asian
 Railway Network
 - 117,500 km of rail routes
 - 28 countries
 - Promotes the development of the Trans-Asian Railway network as part of its overall goal to see the development of an international, integrated, intermodal transport and logistics system for the region, along with the Asian Highway, dry ports and facilitation measures.
 - 17 articles and 2 annexes on routes and guiding principles relating to technical characteristics, e.g. railway gauge, standards for container terminals etc.
 Working Group Meeting once every 2 years





Asian Highway Network

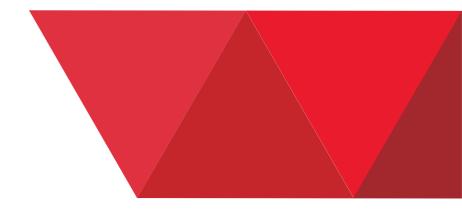




Asian Highway Network: focus in the subregion

- Intergovernmental Agreement on the Asian Highway Network
- 141,000 km of roads
- 32 countries
- Promotes the development of the Trans-Asian Railway network as part of its overall goal to see the development of an international, integrated, intermodal transport and logistics system for the region, along with the Asian Highway, dry ports and facilitation measures.
- 19 articles and 3 annexes on routes, technical characteristics of road class requirements and signages.
- Working Group Meeting once every 2 years

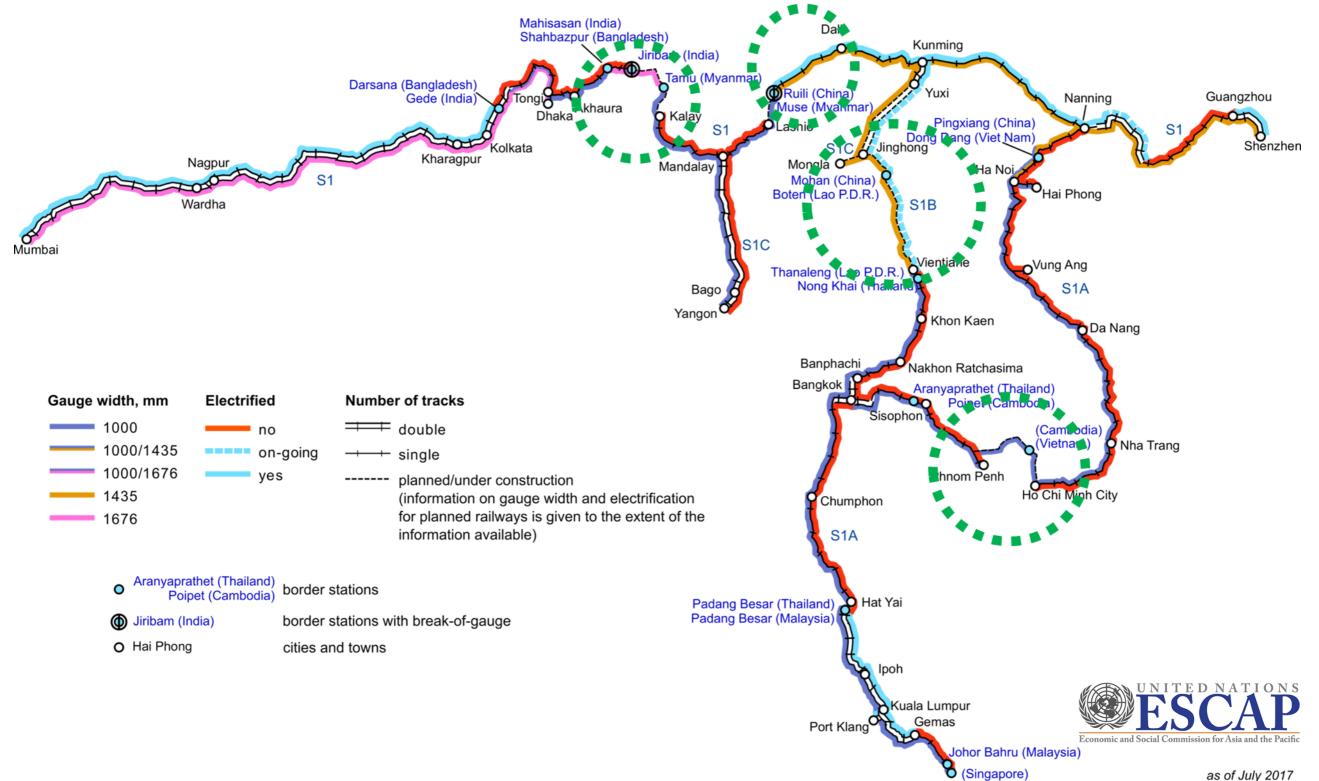
Highway classification		Prima	ry (4 or	more la	nes)	Class I (4 or more lanes)				Class II (2 lanes)				Class III (2 lanes)			
Terrain classific	ation	L	R	M	S	L	R	M	S	L	R	M	S	L	R	Μ	S
Design speed (k	m/h)	120	100	80	60	100	80	50		80	60	50	40	60	50	40	30
Width (m)	Right of way		(50)		(40)				(4	0)	•	(30)				
	Lane		3.50				3.50	0			3.	50		3.00 (3.25)			
	Shoulder	3.00 2.50		3.0	00	2.50		2.5	50	2.0	00	1.5 (2.0)	0.75 (1.5)			
	Median strip	4.0	00	3.0	0	3.0	00	2.50		N/	Ά	N/A		N/A		N/A	
Min. radii of ho (m)	rizontal curve	520	350	210	115	350	210	80		210	115	80	50	115	80	50	30
Pavement slope	(%)		2	1		2				2				2 - 5			
Shoulder slope	(%)		3 –	6		3-6			3-6				3 - 6				
Type of paveme	ent	Asph	alt/ceme	nt concr	ete	Asph	alt/ceme	nt concre	te	Asp	Asphalt/cement concrete			Dbl. bituminous treatment			nent
Max. superelevation (%)			10				10			10		10		10			
Max. vertical gr	ade (%)	4	5	6	7	4	5	6	7	4	5	6	7	4	5	6	7
Structure loading (minimum)			HS20	-44		HS20-44			HS20-44				HS20-44				



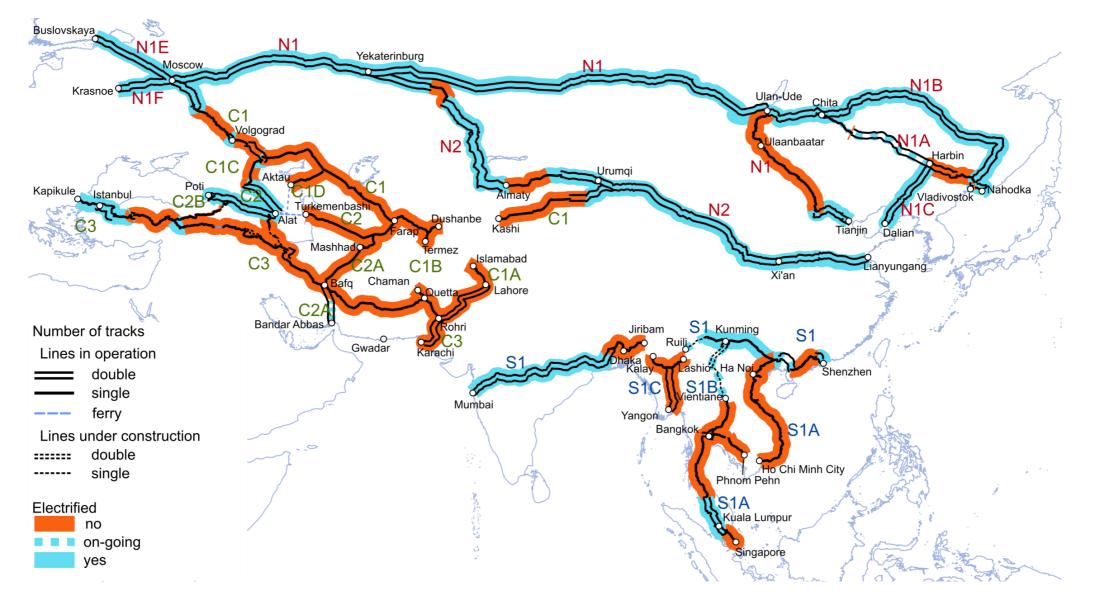
Logistics connectivity in the subregion



Rail infrastructure in ESCAP Southern Transport Corridor



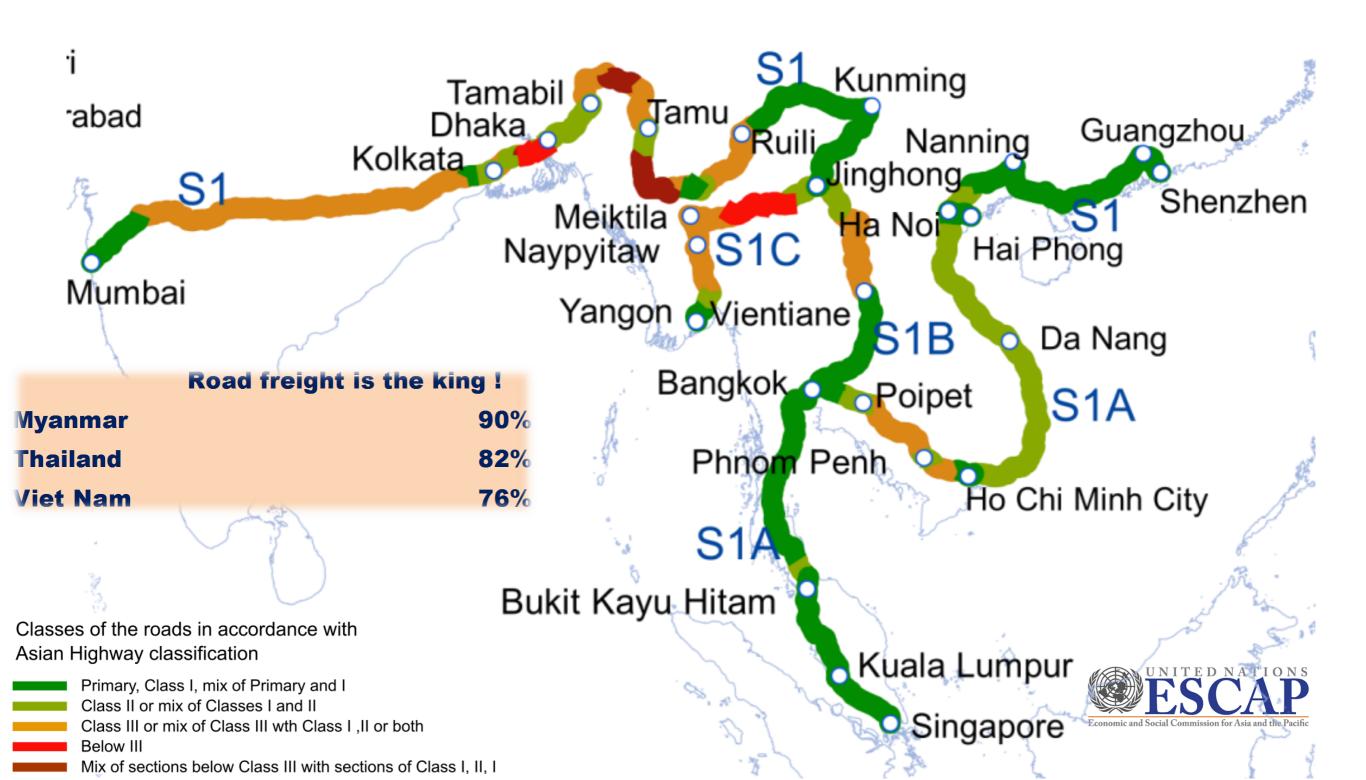
Single track, unelectrified, standard vs. meter gauge



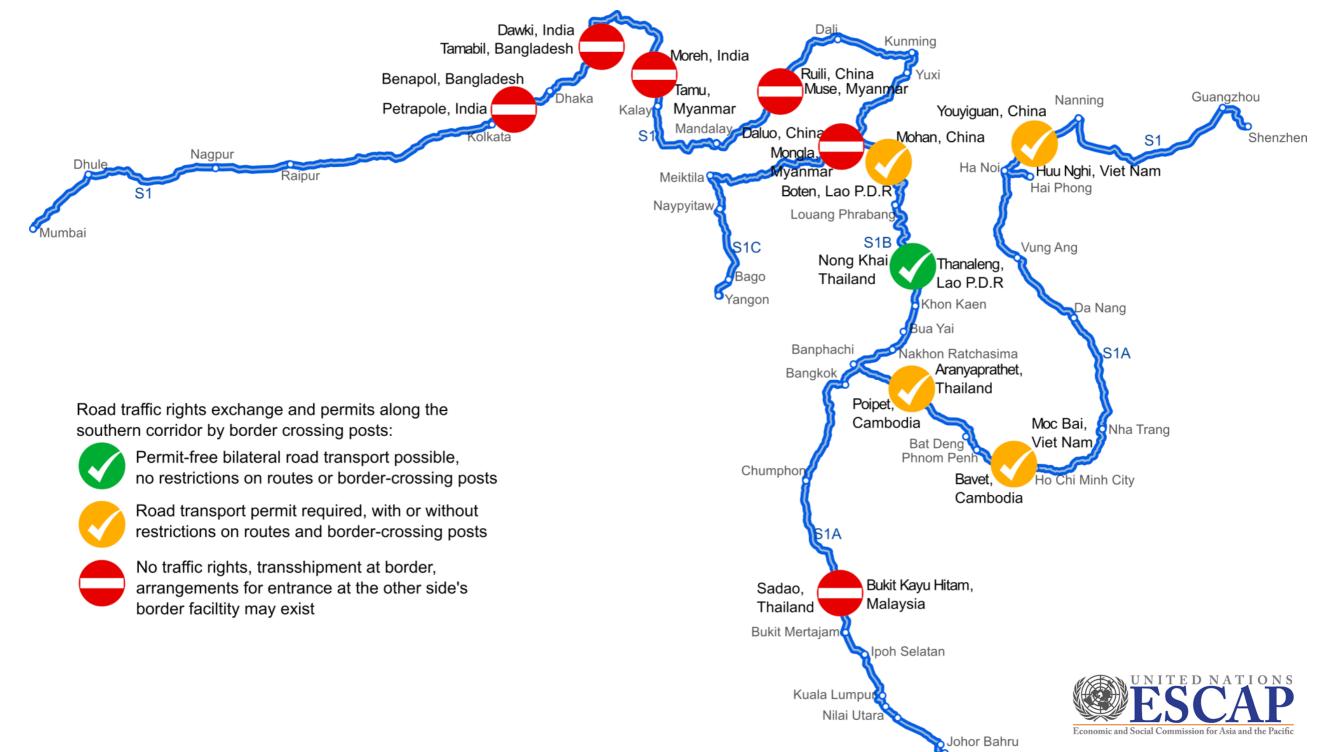
Limited capacity and bottlenecks ??



Road infrastructure along ESCAP Southern Transport Corridor



Traffic rights: permits limitations



Singapore

Exchange of traffic rights along GMS subregion

	Permit quota
Viet Nam - Cambodia	500
Viet Nam - China	500
Viet Nam - Lao PDR	No quota
Viet Nam - Lao PDR - Cambodia (trilateral)	150
Cambodia - Thailand	150
Cambodia - Lao	40
Thailand - Lao PDR	No quota
*Thailand - Myanmar	*100
GMS	500
Myanmar - India / Bangladesh	Transhipment at the borders



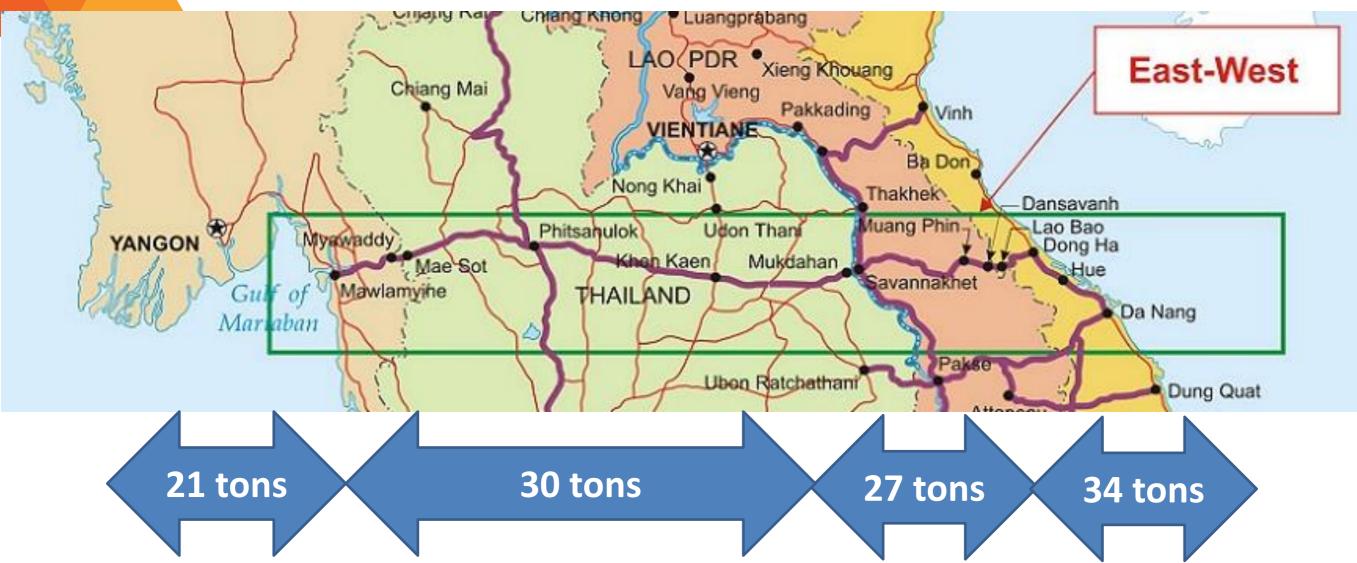
Different documentations requirements at border crossing points

Thailand	Lao PDR
 Required documents by transport authority Vehicle Registration Certificate Valid road tax payment document Vehicle Inspection Certificate Transport Operator License Vehicle Insurance Certificate National Vehicle Registration Plate and the Distinguishing Sign. Valid Driving License Documents must be in English Required documents for goods (cargo) Customs import declaration form Commercial Invoice 	 Required documents by transport authority Vehicle Registration Certificate Transport Operators License Vehicle Insurance Certificate National Vehicle Registration Plate and the Distinguishing Sign. Valid Driving License Required documents for goods (cargo) Good Manifest Commercial Invoice Packing List Customs Declaration Form for cargo
 Packing List Bill of Lading (Optional) 	

 List of necessary equipment, tools, spare parts, such as fuel, engine lubricant which shall be reported to the customs of the other contracting party at the border crossing point in order to request tax exemptions.
 Documents must be in English

Customs requirements for vehicles												
China	Viet Nam	Viet Nam	Cambodia	Cambodia	Thailand							
Filing Form for	Customs Declaration for	Customs Declaration for	Customs Declaration for	Customs Declaration for	Customs Declaration Form							
International Road	Temporary Importation of	Temporary Importation of	Temporary Importation of	Temporary Importation of	for temporary admission of							
Transport Vehicle	Vehicle	Vehicle	Vehicle	Vehicle	the vehicle							
Customs Vehicle	No guarantee for vehicle	No guarantee for vehicle	Information on routes and	Information on routes and	No guarantee for vehicle							
Inspection Report	required	required	duration of trip	duration of trip	required							
Four color pictures of the			TAD ()/abiala/a Decement)	TAD () (abida/a Decement)								
vehicle			TAD (Vehicle's Passport)	TAD (Vehicle's Passport)								
Guarantee for vehicle			No guarantee for vehicle	No guarantee for vehicle								
required			required	required								
Advance electronic												
information about vehicle												
and cargo at least one hour												
before arrival to the border												
crossing point												

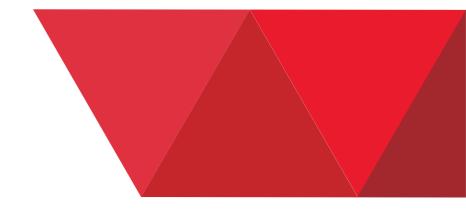
Lack of harmonization ... seamlessness?



	Maximum	Meximum	Maximum L	_ength, mm	Maximum Gro	ss Weight, ton	Maximum Axle Load, ton			
	Maximum Width, mm	Maximum Height, mm	Rigid truck	Articulated Vehicle/Road Train	Rigid Vehicle, ton	Articulated Vehicle/Road Train, ton	Group Axles, ton	Single Axle Load, ton		
Viet Nam	2,500.0	4,200.0		20,000.0	34.0	45.0	24.00i	10.0		
Lao PDR	2,500.0	4,500.0	12,200.0	19,000.0	27.2	49.6	20.4	9.1		
Thailand	2,550ii	4,000.0	12,000.0	16,000.0	30.0	50.5	25.50i	11.0		
Myanmar	2,500.0	4,600viii	12,200.0		21.0	38.0		10.0		

Divergence in emissions standards for road freight vehicles

Country	Reference	Equivalent to Euro standards
Cambodia	National	incompatible to Euro standard series
China	China V	Euro V
Indonesia	National, Euro IV, United Nations Regulations No.49 (revision 3)	Euro IV
Lao PDR	National	incompatible to Euro standard series
Malaysia	Euro I, II	Euro II
Myanmar	AFAGIT Protocol 4	incompatible to Euro standard series
Singapore	Euro IV, V, VI	Euro VI
Thailand	United Nations Regulations No.49(revision 5); Euro III	Euro III
Viet Nam	Euro IV	Euro IV



Initiatives to enhance transport and logistics operational connectivity (ESCAP Frameworks and Models)





UNESCAP transport facilitation frameworks, tools and models

Regional Frameworks

- Regional Strategic Framework for the Facilitation of International Road Transport
- Regional Cooperation Framework for Facilitation of International Railway Transport
- **Eight mutually complementary models**
- Time/Cost-Distance Methodology
- Secure Cross-border Transport Model
- Model on Integrated Controls at Border Crossings
- Efficient Cross-border Transport Model
- Standard Model for Logistics Information System
- Model Bilateral Agreement on International Road Transport
- Model Subregional Agreement on Transport Facilitation
- Model Multilateral Permits for International Road Transport

Information available at the following webpage:

<u>https://www.unescap.org/resources/transport-facilitation-tools</u>







Regional Cooperation Framework for the Facilitation of International Railway Transport

Identifies 4 fundamental issues for facilitation of international railway transport

- I. Standards for railway infrastructure, facilities and equipment
- 2. Break of gauge
- 3. Different legal regimes for railway transport contracts
- 4. Coordination of regulatory controls and inspections at border-interchange stations

Identifies I I priority areas for cooperation among member countries to facilitate railway transport in the region





Regional Cooperation Framework for the Facilitation of International Railway Transport

Priority areas for cooperation among member countries to facilitate railway transport in the region

- I. participation in international railway organizations (OSJD, OTIF)
- 2. formulation of subregional and bilateral agreements on the facilitation of railway transport
- 3. cooperation to standardize cross-border railway operations
- 4. use of advance passenger/cargo information system(s)
- 5. arrangements for the exchange of wagons
- 6. use of new technologies in train operations as well as in container tracking
- 7. developing human resources for cross-border railway operations (visas, training, conditions of service)
- 8. establishment of logistics centers/dry ports and maintenance hubs at or near border interchange stations, particularly along railway freight corridors
- 9. simplification of the intermodal interface of railways with maritime, air and road transport
- 10. promotion of the corridor approach in the facilitation of international railway transport
- 1. work towards paperless railway freight transport





Regional Strategic Framework for the Facilitation of International Road Transport

Common fundamental issues

- I. road transport permits & traffic rights
- 2. visas for professional drivers & crew
- 3. temporary importation of road vehicles
- 4. insurance of vehicles
- 5. vehicle weights & dimensions
- 6. vehicle registration & inspection certificates

Common approaches for key modalities for facilitation

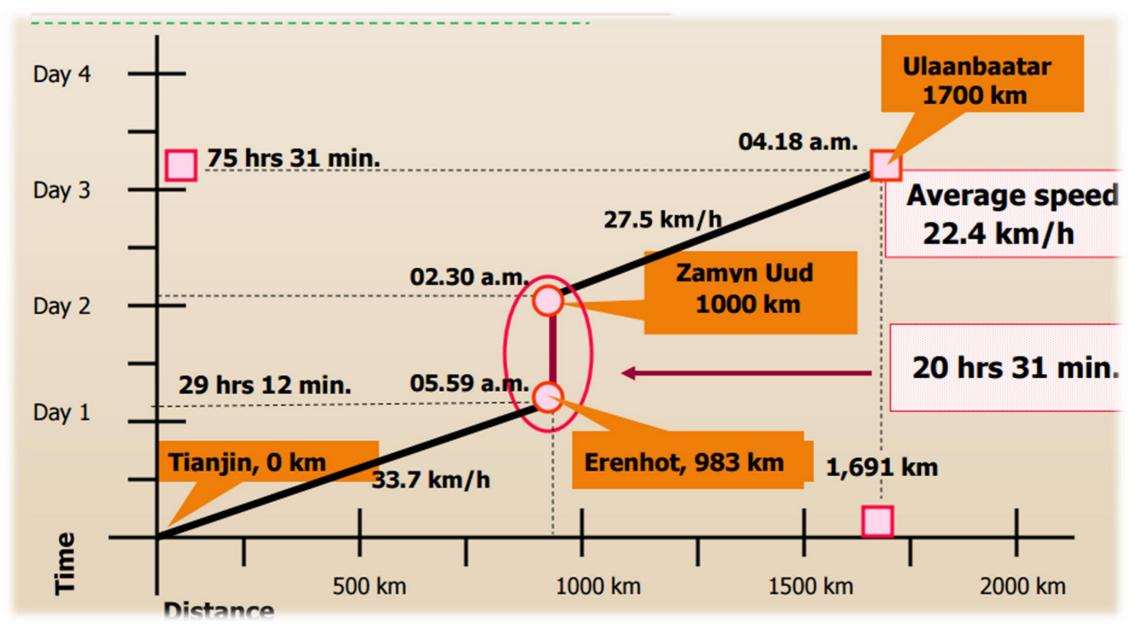
- I. building an effective legal regime
- 2. wider application of new technologies
- 3. development of professional training
- 4. establishment/strengthening of national coordination mechanisms
- 5. promotion of joint control at border crossings
- 6. promotion of economic zones at border crossings, dry ports and logistics centres
- 7. further application of facilitation tools





Time-Cost-Distance Model

Example: Tianjin – Ulaanbaatar Railway Link

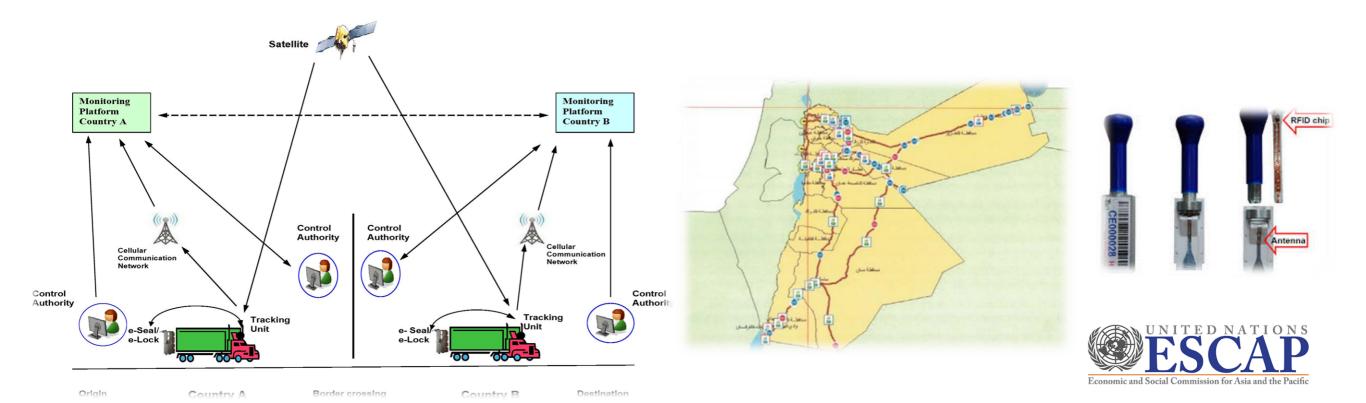






Secure Cross-border Transport Model

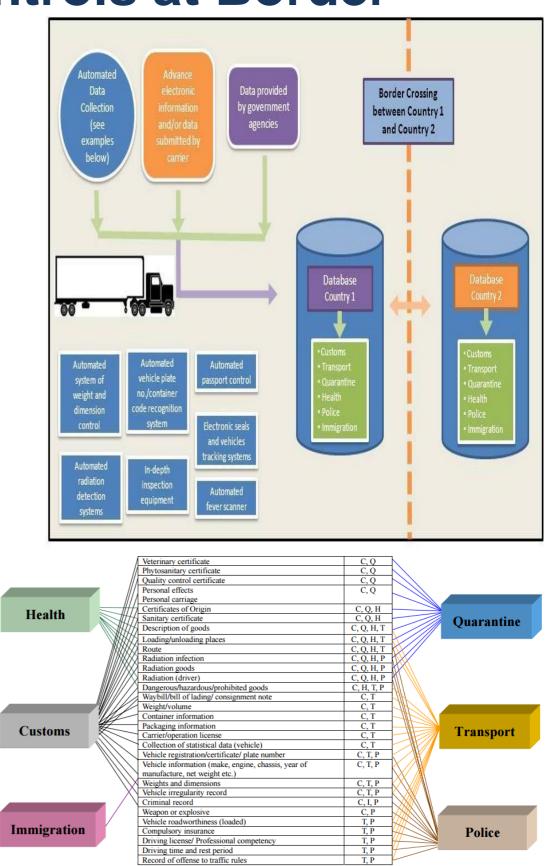
- Provides concept for vehicle tracking system using new technologies, e.g. RFID, e-Seals
- Balances control requirements and facilitation
- Physical inspection at origin/destination addresses concerns of security, diversion of goods
- Flexible institutional arrangements
- * Facilitates cooperation among border agencies both behind and across the border





Model on Integrated Controls at Border Crossings

- Provides for efficient information flow and sharing among various agencies at border crossings by application of modern technologies
- Promotes optimum use of modern equipment by different agencies
- Helps in streamlining and simplifying formalities and procedures for crossing border with re-aligned integrated scheme for a border crossing
- Prevents duplication by aligning inspection schemes for different agencies at the same border crossing





Efficient Cross-border Transport Model

- Evaluation Sheet for freight transport arrangement
- Identify best modalities taking into consideration of particularities at border crossing points

Issues	Trailer swap	Container swap	Manual transloading	No transloading	Solution/Arrangement	Difficulty	Co
Transport permit for motor vehicle				x	Multilateral agreement	5	5
			i		Bilateral agreement	3	3
Permission for foreign trailer to enter the country	x			x	Multilateral agreement	4	4
			i		Bilateral agreement	3	3
			i		Double registration	2	3
Third party liability insurance of vehicle					Count reparation	-	-
For prime mover				x	Subregional or regional insurance scheme	5	5
For prime mover				*	Bilateral insurance scheme	4	4
			1				_
					Double insurance	1	3
For trailer	x			x	Subregional or regional insurance scheme	5	5
					Bilateral insurance scheme	4	4
					Double insurance	1	3
Temporary importation							
Of prime mover				x	Accession to international convention	4	4
					Bilateral agreement	4	3
					Double registration	1	3
Of trailer	x			x	Accession to international convention	4	4
					Bilateral agreement	3	3
					Double registration	1	3
Of container	-			-	Accession to international convention	3	3
Of collamer	x	x		x		-	
					Bilateral agreement	3	3
Mutual recognition of driving license				x	Accession to international convention	4	4
					Multilateral agreement	5	5
			1		Bilateral agreement	3	3
					Change of driver	2	2
Mutual recognition of vehicle certificates/registration				x	Accession to international convention	4	4
					Multilateral agreement	5	5
					Bilateral agreement	3	3
Use of compatible vehicles and equipment	x	x			Agreement between transport operators, taking into account national regulations	2	3
Compliance with local standards regarding weight and dimension	x	x		x	Harmonization of regulations	5	5
compriance with local standards regarding weight and dimension	^	^		^	Adjustment of fleet/transport equipment	2	2
O Know Miller Law Solid and Lake							
Compliance with local emission regulations				x	Harmonization of regulations	5	5
					Adjustment of fleet/transport equipment	2	2
Side of steering wheel				x	Multilateral agreement	5	5
					Bilateral agreement	4	4
					Amendment to domestic law	3	3
Visa requirement				x	Multilateral agreement	5	5
					Bilateral agreement	3	3
					Change of driver	2	3
Compliance with local laws				x	Exchange of information of laws	3	1
comprise with ocar laws				^	Training	2	2
Desuirement for transloading equipment		*			Operator's own facilities	2	4
Requirement for transloading equipment		x				2	3
Terrelation Internet		6.5			Facilities provided by private company or public sector		
Transloading labour		(x)	x		Operator's own facilities	2	4
					Facilities provided by private company or public sector	2	3
Requirement for local partner	x	x	(x)		Same company, different branch	2	3
					Two companies	2	2
Risk of damage or loss of goods or container		(x)	x			3	3
Possible route limitations				x	Multilateral agreement	5	5
					Bilateral agreement	4	4
Guarantee for trailer and container	x	(x)			Addressed in cooperation contract, financial guarantee	1	2
	-	(-)			Addressed in cooperation contract, no financial guarantee	i	
Market access				x	Quota of permits	4	4
Local knowledge throughout route					Anore or berning	4	3
Local knowledge ulfoughout foure				x			
Parad as fate				x		3	3
Road safety						3	2
Access to local services				x		-	-
Access to local services Use of containers		x				2	2
Access to local services	8	x 7.5	2.5	x 19		-	-
Access to local services Use of containers	8		2.5			-	-

Note: x = Issue relevant, (x) = Issue relevant to some degree

1- low cost/difficulty, 2- some cost/difficulty, 3 - reasonable cost/difficulty, 4 - high cost/difficulty 5 - considerable cost/difficulty



Standard Model for Logistics Information System

The Study includes examples of existing national and transnational systems, national experiences, recommended data and other technical standards and the Standard Model of Logistics Information Systems.

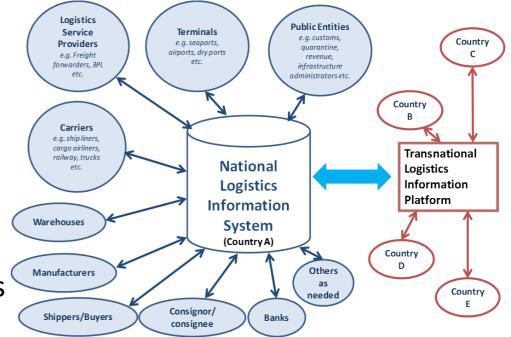
General Recommendations

• To utilize logistics information technology systems or other ICT resources related to logistics services, in order to establish national logistics information systems as a public platform providing effective and efficient information services as well as future transnational interchange

• To establish a regional mechanism promoting cooperation among countries in the development of national logistics information systems; ideally include therein the coordination of standards and the development of cooperation through a legal framework.

 To consider government investment or public-private partnerships to fund the development of logistics information systems.

• To adopt the "Standard Model of Logistics Information Systems" in the development of national system.



Examples: NEAL-NET, LOGINK etc.

<u>http://www.unescap.org/resources/regional-</u> <u>study-use-logistics-information-systems-</u> <u>increased-efficiency-and-effectiveness</u>

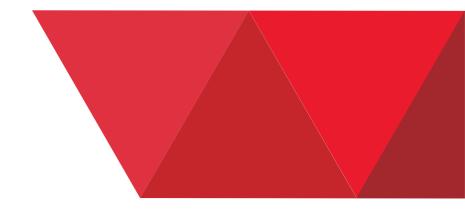




Standard Model for Logistics Information System

Overview: Functions of existing Logistics Information Systems

T															
		Chi	China Japan			ļ	Republic	of Korea			Singapore		Ti	ransnation	al
Functions	Recommended national system	LOGINK	E-Port	Colins	NACCS	PORT-MIS	SP-IDC	GCTS	uTrade	PortNet	Trade Net	TradeXChange	NEAL-NET	ANNA	ASEAN Single Window
User management:															
importers/exporters, shippers, customs brokers	x	х	х		x	x	х	x	х	x	x	x	x		
freight forwarders	х	х	х	х	х	х	х	х	х	х	х	х	х		
warehouse operators	х	х		х	х	х	х		х			x			
carriers inc agents	х	х		х	х	х	х	х		х		x	x	х	
terminal operators	х	х		х	х	х	х			х		x	x	х	
Data interchange and messaging e.g. documents transmission, queries, messages	x	x	x	x	x	x			x	x	x	x	x	x	x
Standardizations e.g. data elements, code set, business doc, business process models	х	x	x	х	x	x	х	x	х	х	x	x	x	x	x
Imports/exports clearances e.g. customs, quarantine, trade control	link		х		x				x		x				x
Seaport/airport clearance inc. cargo and crew	link				x	x				x				x	
Payment:															
Customs duties, taxes etc.	link		х		х				х		х				
transport related charges	link					х				х					
Track and trace	link	х		х	х	х		х	х	х			х		
B2G	х	х	х		х	х			х	х	x	x		х	
B2B	х	х	х	х	х	х		х	х	х		x	x		
G2G	х	х	х			х			х			x		х	х
Statistical data and data information	х	х	х		x	х	х	x	х	х	x				
M-All modes; A-Air; S-Sea; R-Road; W- Railway	М	м	М	S	AS	S	М	SRW	М	S	М	М	М	S	М



Other initiatives and COVID Response





Other initiatives to support logistics sector

Regional Conference for Logistics Service Providers

- Annual event held in conjunction with FIATA and national associations
- The Conference is a platform allowing logistics service providers to discuss issues pertaining to the latest developments in freight forwarding and logistics services in the region; identify challenges, promote good practices and share national experiences
- Support human resource development through organized 3 Training-of-Trainers Capacity Building Workshops: in collaboration with PMTLAI, MIFFA, TIFFA and ILFA in year 2020.
- Produce training manuals for the forwarding and logistics sector





Examples of some on-going projects

- Enhancing efficiency of intermodal transport operations in Asia Through developing coordination arrangements in support of balanced economic, social and environmental impacts
- Strengthening capacity for operationalizing effective transport connectivity along China-Central Asia-West Asia Economic Corridors to achieve the 2030 Agenda
- Facilitating the deployment of highly and fully automated vehicles in road traffic along the Asian Highway Network
- Transport and trade connectivity in the age of pandemics: digital and smart solutions
- Training of Trainers Capacity Building Workshops for Logistics Service Providers





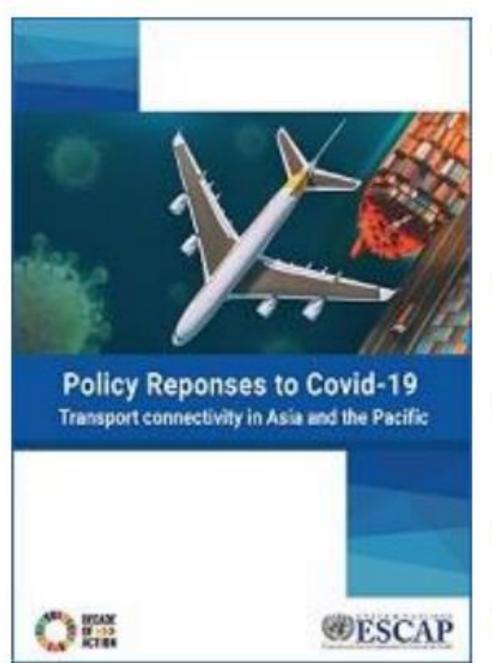
COVID Response

- Coordinating emergency responses along the Asian Highway Network in face of the COVID 19 pandemics
 - Released policy brief on "Policy Responses to Covid-19: Transport Connectivity in Asia and the Pacific" and set up dedicated informative webpages
 - Organized Virtual Expert Group Meeting on Safe and Seamless Transport Connectivity along the Asian Highway Network
 - Organized Webinar on Preserving Transport Connectivity and Building Freight Transport Resilience in ASEAN
 - Organized UNESCAP ILFA Training-of-Trainers (TOT) Capacity Building Workshop on COVID-19 implication to Logistics sector: Impact, opportunities and momentum for capacity development in Indonesia
 - Undertaking the UN-wide Rapid Response Project, on "Transport and trade connectivity in the age of pandemics: United Nations solutions for contactless, seamless and collaborative transport and trade".





ESCAP Policy Brief on COVID-19 and Transport Connectivity

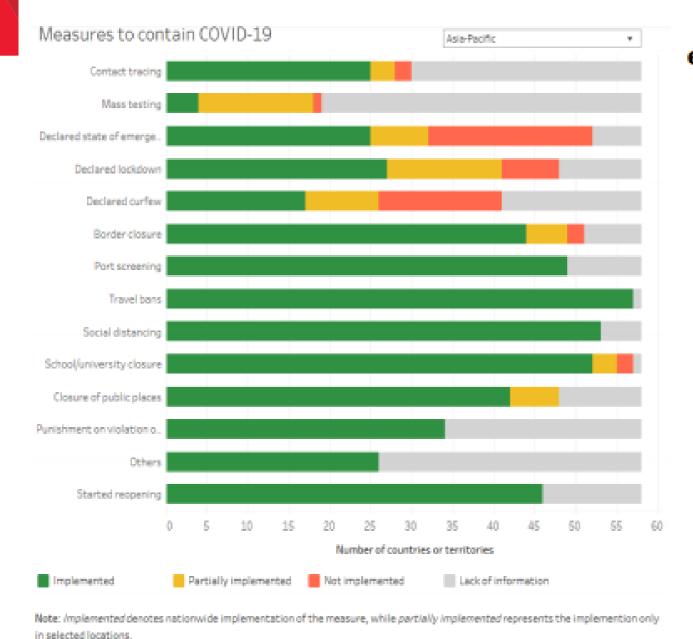


- Role of international freight transport as a pandemic vector, but also as a key component for crisis response and post-crisis recovery
- Difficulty in tracking and monitoring national responses, affecting freight distribution
- Registering concern with transport connectivity despite the exemption of freight flows from general restrictions
- Observed push for innovation and digitalized facilitation of transport processes
- Strong environmental component of the transport-related response to the outbreak
- Limited visible use of transport cooperation mechanisms in place in Asia and the Pacific

https://www.unescap.org/resources/policy-reponses-covid-19transport-connectivity-asia-and-pacific



What is the state of regional transport connectivity?



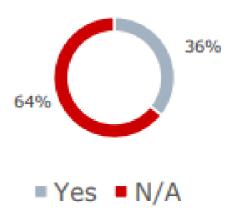
Source: ESCAP based on information available up to 15 June 2020 from IMF Policy Responses to COVID-19, and various national sources and news.

International freight (all goods or essential goods) allowed in AH countries



New health and safety measures along AH routes

Facilitation measures in the AH countries



COVID-19 showed an important degree of resilience of the network and agility in responses

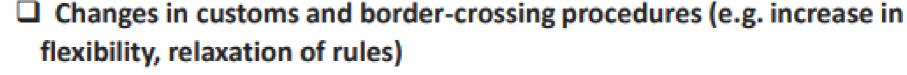
Measures to ensure safe and seamless connectivity during pandemic times

Infrastructure



- Temporary suspension of cross-border freight transport (percent and / or duration)
- **Closure of border crossings for freight transport (percent and / or duration)**
- Extension/limitation of operating hours for border controls
- Restrictions on number of staff working in ports of entry
- Development of social distancing and safety guidelines at ports of entry for both employees and users
- Availability of personal protective equipment for customs inspectors

Border crossing procedures



- Acceptance of electronic transport documents
- Creation of rapid customs clearance lanes for specific goods

Fransport Means



Authorisation of vehicles, vessels or aircrafts for border crossing
 Disinfection of vehicles, vessels or aircrafts
 Restrictions on vehicles, vessels or aircrafts transiting to third countries
 Waivers for vehicle certificates and other requirements





Making transport safe and seamless during and after the Pandemic

Transport Crew



 Restrictions on the access of transport crew members (e.g. changes in the number of crew members allowed entry)
 New health and other medical checks on transport crew members, i.e. temperature checks, health declaration, virology test results, the length of quarantine or self-isolation, if any, waivers, other measures.
 Change of crew (to local crew) in foreign vehicles or vessels
 Requirements of personal protective equipment
 Restrictions on time spent in destination country

Cargo



Suspension of exports of medical items or other goods
 Identification of goods that are not restricted (e.g. essential goods)
 Disinfection of goods
 No charges or penalties for storing the cargo

Recovery



New infrastructure? New Deal?
 Reconfiguration or preservation of global supply chains?

Fiscal and other measures to support road transport



Pre COVID-19

- Infrastructure shortages
- Lack of digitalization
- Disbalanced freight modal split (road, rail, maritime)
- Inefficient or fragile transit arrangements
- Manual practices/checks at the border crossings

Continued documentary requirements due to the divergent standards on vehicles, drivers and international transit

During COVID-19

- Restrictions
- New controls

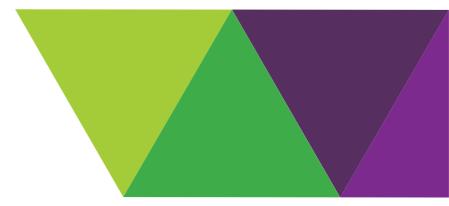
But also

- Transit/green corridors
- Electronic verification of road paper permits
- Temporary cancelation of special permits for trucks
- No charges or penalties for storing cargo
- Emergency Response
 Center to support
 shippers and transport
 operators
- Higher use of risk management for physical inspections



?

Thank you



Edouard Chong

Economic Affairs Officer Transport Division chonge@un.org

