

KUALA LUMPUR TRANSPORT STRATEGIC PLAN

(ASEAN TRANSPORT STRATEGIC PLAN)
2016-2025



one vision
one identity
one community



**KUALA LUMPUR TRANSPORT STRATEGIC PLAN
(ASEAN TRANSPORT STRATEGIC PLAN)
2016-2025**

The ASEAN Secretariat
Jakarta

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Introduction

I. INTRODUCTION

1. Transport has been recognised by the ASEAN Leaders as the very basis of the ASEAN economic development and integration as it plays a crucial role in the movement of goods, services, capital and people. It also provides great support in binding ASEAN's economies closer together and in building the ASEAN Economic Community that is so vital for the future of ASEAN nations.

2. The ASEAN Strategic Transport Plan / Brunei Action Plan (BAP), which was adopted by the Sixteenth ASEAN Transport Ministers (ATM) Meeting in November 2010, serves as the main reference guiding ASEAN transport cooperation and integration as well as identifies strategic actions to be implemented in the period 2011-2015. The BAP also supports the new priority of enhancing regional connectivity identified in the Master Plan on ASEAN Connectivity (MPAC).

3. Through the BAP, ASEAN Member States continue to undertake concerted actions to achieve the specific strategic goals set for transport sector in line with the ultimate objective "to realise an efficient and integrated transport system to support the realisation of the ASEAN Economic Community and for ASEAN to integrate with the global economy, improve competitiveness and enhance the inflow of foreign direct investment".

4. In line with ASEAN's work on post-2015 vision and with the successful conclusion of BAP, ASEAN Transport Ministers agreed to formulate the transport vision for post-2015 and develop the successor of BAP, namely: ASEAN Transport Strategic Plan or Kuala Lumpur Transport Strategic Plan (KLTSPP).

5. The KLTSPP aims to support the realisation of the vision of the ASEAN Economic Community (AEC) 2025 which calls for a deeply integrated region that will contribute towards a highly cohesive ASEAN economy. In this regard, the KLTSPP, which serves as a guiding regional policy document, outlines 30 specific goals, 78 actions and 221 milestones in the areas of air transport, land transport, maritime transport, sustainable transport and transport facilitation.

6. The KLTSPP was developed by the members of the Task Force on the Development of Successor ASEAN Strategic Transport Plan through consultation and with the inputs from the ASEAN Secretariat and all working groups, and sub-working groups under the

ambit of Senior Transport Official Meeting (STOM). The KLTSP has been built upon the achievements of the BAP 2011-2015 and aligned with the following post-2015 vision for transport cooperation which was adopted by ASEAN Transport Ministers:

“Towards greater connectivity, efficiency, integration, safety and sustainability of ASEAN transport to strengthen ASEAN’s competitiveness and foster regional inclusive growth and development”



**Implementation Progress
of the Brunei Action Plan (BAP)
2011-2015**

II. IMPLEMENTATION PROGRESS OF THE BRUNEI ACTION PLAN (BAP) 2011-2015

7. The BAP specifies 17 strategic goals and 42 specific actions which were translated into 160 milestones that have to be carried out both collectively and individually by ASEAN Member States. 145 out of 160 milestones are due by 2015, and about 70% of the milestones are still ongoing at various stages. The implementation of those milestones will be carried forward to the KLTSP 2016-2025.

Air Transport

8. Steady progress has been made by ASEAN Member States towards establishing a regional open skies arrangement. ASEAN Member States have been actively pursuing development of air connectivity through the implementation of the ASEAN Single Aviation Market that includes the ASEAN open skies agreements as well as the progress in engaging ASEAN Dialogue Partners, namely China, European Union, India, Japan and the Republic of Korea in air services negotiations.

9. One of the key policy documents, namely: Implementation Framework of the ASEAN Single Aviation Market (ASAM) was adopted by the 17th ASEAN Transport Ministers (ATM) Meeting held in December 2011 in Phnom Penh, Cambodia. The Implementation Framework including its Roadmap provides guidance for ASEAN key work in areas such as air services liberalisation, the enhancement of aviation safety and security standards and practices, and the harmonisation of air traffic management.

10. Significant progress has been made with regard to the ratification of the ASEAN open skies agreements. The ASEAN Multilateral Agreement on the Full Liberalisation of Air Freight Services, and its protocols have entered in force and are effective among all ASEAN Member States on 2 October 2015. The other two open skies agreements and their respective protocols have also entered into force and are effective among Member States that have ratified them. The status of the following 3 open skies agreements which aim to provide the competitive space for greater expansion and opportunities for air travel, in terms of more destinations, increased capacities and lower fares through provision of international air services with full third (3rd), fourth (4th), and fifth (5th) freedom traffic rights within the ASEAN region, are as follows:

- a) ASEAN Multilateral Agreement on the Full Liberalisation of Air Freight Services and its Protocols (20 May 2009): are in force and effective among all Member States;
- b) ASEAN Multilateral Agreement on Air Services and its Protocols (20 May 2009): are in force and effective among all Member States, (except the Philippines with Protocols 5 and 6 to be ratified); and
- c) ASEAN Multilateral Agreement on the Full Liberalisation of Passenger Air Services and its Protocols (12 November 2010): are in force and effective among all Member States, (except Indonesia and Lao PDR).

11. As to the liberalisation of the ASEAN air transport ancillary services, ASEAN Member States adopted the Guidelines for Liberalisation of the ASEAN Air Transport Ancillary Services, which identified seven (7) new air transport ancillary services that have become the new sub-sectors subject to the air transport sectoral negotiations from 2010 to 2015. ASEAN Member States were also encouraged to follow closely the guidelines on Parameters for the Liberalisation of Air Transport Ancillary Services in scheduling their improved offers and commitments for the 7th to 9th packages. ASEAN Member States had successfully concluded the 7th, 8th and 9th packages of air transport services commitments.

12. Other achievements in the implementation of the ASAM Roadmap include a) information sharing on the economic elements of the ASAM; b) a framework to align safety regulatory capability and standards; c) a database containing information on the operation and planning of air navigation systems in ASEAN; and d) the vision of a seamless ASEAN sky that envisages ASEAN airspace as a seamless block of airspace in Asia-Pacific, with harmonised and interoperable procedures and operations. The EU through the ASEAN Air Transport Integration Project (AATIP) has provided technical assistance for ASEAN Member States in the development of the institutional and regulatory frameworks and capacities to support a safe, secure and sustainable ASAM in 2015 and beyond. The AATIP project was launched on 30 November 2012 for four (4) years.

13. On the efforts to expand air connectivity with ASEAN Dialogue Partners, the landmark ASEAN-China Air Transport Agreement (AC-ATA) and its Protocol 1 on 'Unlimited Third and Fourth Freedom Traffic Rights Between Any Points in Contracting Parties' have entered into force on 9 August 2011 among those States that have ratified them. Since ASEAN-China opened the third and fourth freedom traffic rights, trade exchanges and people movements have grown considerably. The

AC-ATA Protocol 2 on 'Fifth Freedom Traffic Rights between Contracting Parties' was concluded in November 2014 and has entered into force on 8 September 2015 among China, Malaysia, Myanmar, Thailand and Singapore which have ratified the said Protocol. Air services negotiations with the European Union, India, Japan and the Republic of Korea (ROK) are ongoing or in the pipeline.

14. To promote environmental friendly aviation, the ASEAN and Japan Transport Ministers endorsed the "ASEAN-Japan Eco-Airport Guidelines" in November 2008 in Manila, the Philippines. These Guidelines were implemented thereafter and a survey conducted amongst 18 ASEAN airports from February 2013 to March 2014 to ascertain and share progress in the implementation of eco-airport measures and identify future direction for the establishment of sustainable eco-airports. The survey, which was based on 3 aspect categories, i.e. organisational structure, operation and management and building/facility/equipment, showed that the implementation of the Guidelines varies among the airports. Noting the importance of sustainable Eco-Airports, ASEAN and Japan have agreed to cooperate to share new technologies and airport's challenges and solutions.

Land Transport

15. The priority of land transport work has been given to the completion of the ASEAN Highway Network (AHN) and the Singapore-Kunming Rail Link (SKRL) project. Currently, there are 2 (two) ongoing constructions of SKRL missing link sections, i.e. Poipet-Sisophon and Aranyaprathet-Klongluk.

16. The construction of Aranyaprathet-Klongluk Section including the railway bridge connection between Cambodia and Thailand with funding from the Government of Thailand, was completed in August 2015. The completion of Poipet-Sisophon section (48 km) has been delayed from its original target date. 42 km of the missing link had been completed and the Government of Cambodia has released USD 6 million for the construction of the remaining 6 km near Cambodia-Thailand Border which is scheduled to be implemented by the end of 2016.

17. The construction of SKRL section from Phnom Penh to Tra Peang Sre (Cambodia/Viet Nam border) is behind schedule and still seeking fund for the project implementation. On SKRL sections from Lao PDR (Vientiane-Thakek-Mu Gia) to Viet Nam (Mu Gia-Tan Ap-Vung Ang), ROK confirmed that the feasibility study on development of said railway lines had been approved by its National Assembly and would be announced soon. On

the proposed construction of SKRL network between Myanmar (Thanbyuzayat-Three Pagoda Pass) and Thailand (Three Pagoda Pass-Nam Tok), both Member States agreed to replace it with the railway line linking Dawei Port (Myanmar) to Kanchanaburi (Thailand).

18. The supplementary upgradation work in Cambodia, Malaysia and Thailand to support SKRL has made good progress. Cambodia completed the Phase I rehabilitation project from Phnom Penh to Bat Deoung in March 2014 and will start the work on strengthening all railway bridges for Bat Deoung-Sisophon (306 km) section in 2016. Thailand completed the track rehabilitation of Kaeng Khoi-Kaeng Suaten, Suranarai-Bua Yai section/Phase 5 (318 km), Jira-Bua Yai and Bua Yai-Nong Khai section/Phase 6 (278 km) in May 2014, while Malaysia completed the double track construction of Ipoh-Padang Besar section (329 km) in November 2014.

19. On ASEAN Highway Network (AHN), there are no more AHN missing links in the region and the total length of roads below Class III reduced by 46.2%, from 5,311.2 km in 2010 to 2,454 km in 2015, which include 1,200 km on the priority Transit Transport Routes (TTR). Indonesia has made good progress in upgrading the below Class III roads in AH-25 and AH-150 and the upgrading of the remaining 273.28 km below Class III roads in AH-150 is targeted to be completed in 2017. Lao PDR and Myanmar have put up efforts to upgrade their below class III roads on TTR by 2019 and 2021, respectively. The upgrading of AH-112 road sections from Thanbyuzayat to Lehnya (719 km) and AH-123 connects DAWEI Special Economic Zone and the border town Htiki/Ban Phu Nam Ron (132 km) is expected to be completed by 2020. On the missing link of 'East West Economic Corridor' in Myanmar, it was completed as Myanmar confirmed that there is no missing link in the said corridor.

20. Upgradation work of "Class II or III" sections with high traffic volume to "Class I" in Cambodia (AH-1 and AH-11) is ongoing. The "Tsubasa" (or Neak Loeung) Bridge construction was completed in April 2015. The bridge potentially contributes to the development of Cambodia and regional economies because it links the ASEAN Highway and the Great Mekong Sub-region Highway (Southern Economic Corridor). In Thailand, the construction of Chiang Khong/Houayxay Bridge was completed in December 2013, while road widening projects at AH-1, AH-3 and AH-123 are ongoing and expected to be completed by 2019.

21. Installation of common road signs and the route numbering system in all designated routes with a specific priority on Transit Transport Routes (TTR) is in various stages. Brunei Darussalam, Cambodia, Myanmar, the Philippines, Thailand and Viet Nam have completed this undertaking.

22. As to road safety, ASEAN Member States have made good progress towards increasing the level of road safety in the region. Most ASEAN Member States have developed or revised their respective national road safety action plans to be aligned with the United Nations Decade of Action for Road Safety 2011-2020 that aims at stabilising and then reducing the forecasted level of global road fatalities and serious injuries by increasing activities conducted at national, regional and global levels. As to the framework for road safety strategies at regional level, ASEAN has come up with the ASEAN Regional Road Safety Strategy which was adopted by the 40th STOM and 21st ATM in November 2015 in Kuala Lumpur. ASEAN Member States have also appointed the Malaysian Institute of Road Safety Research (MIROS) as an ASEAN Regional Road Safety Centre which aims to provide knowledge on road safety situation in ASEAN Member States which include information on the following: traffic laws and regulations, road accident data, road transport data, vehicle regulations concerning standard and inspections, driver training and driver testing, traffic police activities, road safety training in schools, road safety information/campaigns to the community.

23. Under the BAP, ASEAN is committed to formulate Intelligent Transport Systems (ITS) Master Plans for ASEAN and respective Member States. ASEAN Member States recognised that ITS plays an important role in shaping the future ways of mobility and the transport sector. In this regard, ASEAN Member States underscored the need to update and refresh the first version of the ITS Policy Framework and come up with the second version of the ASEAN ITS Policy Framework. The review and update of ASEAN Intelligent Transport System (ITS) Policy Framework is in progress and expected to be completed by 2016.

Maritime Transport

24. The work on developing ASEAN single voice in international maritime through the development of an ASEAN Single Shipping Market (ASSM) is imperative and supportive of the ASEAN Leaders' commitment to develop ASEAN as a single market and production base. There has been good progress towards achieving an integrated, efficient, and competitive maritime transport system. The Implementation Framework of the ASSM was endorsed by the 20th ATM Meeting held in November 2014 in Mandalay, Myanmar. The Implementation Framework provides strategic guidance to coordinate policy and harmonise rules and regulation to further liberalise shipping services in the region. ASEAN Member States have agreed to establish the ASSM Coordinating Board which would consist of senior maritime transport officials, and may involve necessary coordination with the relevant ASEAN bodies/authorities, such as customs, trade facilitation and port authority.

25. ASEAN Member States have also worked towards ensuring the 47 designated ports meet the acceptable performance and capacity level. The template for calculating port performance indicators is being developed.

26. There are ongoing efforts to implement the programme of port management system as to health and environment which was developed with the technical assistance from GIZ. 12 ASEAN ports from 7 ASEAN States were participated in the Project on Sustainable Port Development (SPD) in ASEAN.

27. The Master Plan Study and Feasibility Study on the Establishment of an ASEAN RO-RO Shipping Network and Short Sea Shipping was completed in March 2013. Currently, Indonesia, Malaysia, the Philippines and Thailand were exploring possible avenues to operationalise the 3 recommended priority routes, namely: General Santos-Bitung route, Melaka-Dumai route, and Belawan-Phuket route.

28. With respect to the key actions related to the review of ASEAN Near Coastal Voyage (NCV) limits and current arrangements for the Standards of Training, Certification and Watchkeeping for Seafarers (STCW) in ASEAN NCV limits, ASEAN Member States shared the view on the need for maritime administrations in ASEAN to mutually recognise NCV certificates issued by ASEAN Member States. The deliberation of an ASEAN-wide MOU on the mutual recognition of NCV certificates issued by ASEAN Member States is underway and expected to be finalised by 2017.

29. On the establishment and enhancement of cruise corridor, the “ASEAN-Japan Cruise Promotion Strategy” (AJCPS) had been adopted by the 12th ASEAN and Japan Transport Ministers Meeting in November 2014. The policy pillars of the AJCPS include planning cruise promotion policies, developing cruise tourism attraction and on-shore itinerary, improving cruise infrastructure, enhancing quality of cruise tourism, data collection and common methodology and marketing promotion.

30. Pertaining to Search and Rescue (SAR) cooperation in the region, an ASEAN Transport SAR Forum (ATSF) has been established to serve as a technical and policy forum for dialogues among transport SAR agencies within ASEAN framework. The ATSF had conducted the joint SAR Tabletop Exercises (TTX) and Command Post Exercise (CPX) in August 2014 in Jakarta. Currently, there are ongoing discussion on the draft of ASEAN Agreement on Aeronautical and Maritime SAR Cooperation.

31. On the effort to support formulation and implementation of ASEAN Oil Spill Response Action Plan (OSRAP), ASEAN Transport Ministers signed the MOU on ASEAN Cooperation Mechanism for Joint Oil Spill Preparedness and Response in November 2014. Through the MOU, ASEAN has put in place a regional collaborative mechanism to build capacities and capabilities and promote mutual assistance in preparing for, controlling and combating oil spill incidents in ASEAN region.

32. Another key achievement with regard to the support in implementation of IMO Conventions, ASEAN Member States have adopted the ASEAN Regional Strategic Action Plan to minimise the transfer of harmful aquatic organisms and pathogens in ships' ballast water and sediments, including its work plan. The Action Plan aims to facilitate consideration for the ratification and implementation of the Ballast Water Management (BWM) Convention by ASEAN Member States; to provide a platform for dialogue, consultation and exchange of information amongst national and regional stakeholders; and to establish a framework of regional cooperation.

Transport Facilitation

33. The ASEAN Framework Agreement on the Facilitation of Goods in Transit (AFAFGIT) has been in force since 2000 however its full implementation relies on the operationalisation of its protocols. The ASEAN Framework Agreement on the Facilitation of Inter-State Transport (AFAFIST) is ratified by and in force in Cambodia, Lao PDR, the Philippines, Thailand and Viet Nam; while the ASEAN Framework Agreement on Multimodal Transport (AFAMT) is ratified by and in force in Cambodia, Myanmar, Lao PDR, the Philippines, Thailand and Viet Nam. ASEAN Member States are exerting their efforts to enact their domestic laws to fully operationalise AFAMT.

34. Given the importance of efficient cross border operations in the region to support the realisation of AEC, significant efforts are required to minimise and eventually remove the barriers at national borders. To this end, the European Union (EU) through the ASEAN Regional Integration Supported by EU (ARISE) has extended technical assistance to ASEAN Member States which aims to progress in removing barriers related to transport including preparation for and implementation of ASEAN transport facilitation agreements and other relevant initiative to facilitate movement of goods and passenger vehicles as well as implementation of connectivity initiatives. The activities under ARISE also include ASEAN Customs Transit System (ACTS) pilot project which is targeted to be implemented in 2016.

35. To support greater people mobility within the region, as mandated by the BAP and Master Plan on ASEAN Connectivity, ASEAN Member States is finalising the ASEAN Framework Agreement on the Facilitation of Cross Border Transport of Passengers by Road Vehicles (ASEAN CBTP). The Agreement will facilitate cross border transport of people between and among the Contracting Parties through road vehicles and to simplify and harmonise transport, customs, immigration, quarantine procedures and requirements.

36. With regard to logistics industry, ASEAN Member States recognised the need to enhance the competitiveness of the industry through capacity building. In this context, the project on “Sustainable Human Resources Development in Logistics Services for ASEAN Member States” had been carried out by the ASEAN Federation of Forwarders Association (AFFA) with the technical assistance from Japan. The output of the project is Train-for-Trainer Manuals which form Core Curriculum for Logistics and Supply Chain Management.



**ASEAN Transport
Strategic Plan for 2016-2025
(Kuala Lumpur Transport
Strategic Plan)**

III. ASEAN TRANSPORT STRATEGIC PLAN FOR 2016-2025 (Kuala Lumpur Transport Strategic Plan)

37. ASEAN Member States have agreed on the following strategic goals of respective area for 2016-2025:

AREAS	STRATEGIC GOALS
Air Transport	Strengthen the ASEAN Single Aviation Market for a more competitive and resilient ASEAN
Land Transport	Establish an efficient, safe and integrated regional land transport network within ASEAN and with the neighbouring countries to support the development of trade and tourism
Maritime Transport	Establish an ASEAN Single Shipping Market and promote maritime safety, security and strategic economic corridors within ASEAN
Sustainable Transport	Formulate a regional policy framework to support sustainable transport which includes low carbon modes of transport, energy efficiency and user-friendly transport initiatives, integration of transport and land use planning
Transport Facilitation	Establish an integrated, efficient and globally competitive logistics and multimodal transportation system, for seamless movement of passengers by road vehicles and cargos within and beyond ASEAN

Air Transport

38. In order to achieve air transport goal, it is significant for ASEAN Member States to work towards advancing safer and more secure skies in ASEAN, enhancing air traffic management efficiency and capacity through a seamless ASEAN sky, and fostering greater connectivity, including the conclusion of aviation agreements with Dialogue Partners.

39. In the above context and taking into account the current status of air transport measures, ASEAN Member States need to undertake continued discussion on the way forward and identify concrete steps to establish ASAM. Efforts in some areas such as full ratification and implementation of the RIATS agreements and MAFLPAS under ASAM

Roadmap need to be redoubled. Air connectivity expansion with EU, Japan, India and ROK shall be pursued and enhanced. Other initiatives under ASAM Roadmap, such as air traffic management and aviation safety and security co-operation need to be strengthened. In this regard, the specific goals and actions for air transport sector for the period 2016-2025 are:

AT-1 Work towards a more efficient and competitive air transport market and strengthen engagement with Dialogue Partners, thereby contributing to the economic growth, competitiveness and shared prosperity of ASEAN, while maintaining ASEAN Centrality

AT-1.1 Review the MAAS, MAFLAFS, MAFLPAS, and their respective protocols and implementation as well as discuss further liberalisation of key economic elements, where necessary, under the ASEAN Single Aviation Market (ASAM) Implementation Framework

AT-1.1.1 Complete the review

AT-1.1.2 Establish the mechanism, where necessary, to implement the agreed recommendations of the review

AT-1.1.3 Implement the approved recommendations

AT-1.2 Pursue further liberalisation of air transport ancillary services

AT-1.2.1 Conclude the packages of commitments covering all 13 subsectors to be phased-in

AT-1.3 Continue to engage Dialogue Partners and other partners to conclude more liberal and mutually beneficial air transport agreements, including 3rd, 4th and 5th freedom traffic rights

AT-1.3.1 Conclude and expand exchange of 5th freedom traffic rights with China through conclusion of protocols

AT-1.3.2 Conclude a Comprehensive Air Transport Agreement with the EU

AT-1.3.3 Conclude Air Transport Agreement with India

AT-1.3.4 Conclude Air Transport Agreement with Japan

AT-1.3.5 Conclude Air Transport Agreement with ROK

AT-1.3.6 Consider concluding Air Transport Agreements with other partners

AT-2 Advance safe skies in ASEAN

- AT-2.1 Continue with initiatives to improve regulatory capability and safety standards
 - AT-2.1.1 Continue with implementation of ASEAN Aviation Regulatory Monitoring System
 - AT-2.1.2 Establish a framework to share (foreign operators) ramp inspection information among ASEAN Member States (i.e., ASEAN Foreign Operator Safety Assessment)
 - AT-2.1.3 Implement ASEAN Foreign Operator Safety Assessment initiative

- AT-2.2 Establish a mechanism to facilitate mutual recognition of approvals, certificates and licenses
 - AT-2.2.1 Conclude a framework agreement to support future mutual recognition of approvals, certificates and licenses
 - AT-2.2.2 Establish procedures to achieve mutual recognition for air operator certification, aircraft airworthiness (approved maintenance organisation certification), and flight crew / engineer licensing
 - AT-2.2.3 Identify other areas such as approved trainings organisation and establish procedures to achieve mutual recognition

AT-3 Enhance Aviation Security in ASEAN in accordance to ICAO Standards and Recommended Practices (SARPs)

- AT-3.1 Promote capacity building and align aviation security measures with ICAO Standards and Recommended Practices
 - AT-3.1.1 Conduct the Points of Contact (POC) network exercise on yearly basis
 - AT-3.1.2 Leverage existing capacity building mechanisms such as those offered by the ICAO Asia and Pacific Regional Office, as well as other mechanisms to promote capacity building with a view towards increasing compliance with ICAO SARPs
 - AT-3.1.3 Develop practical, harmonised and cost effective measures in key areas of aviation security such as in screening technologies and processes for liquids, aerosols and gels, passenger pre-board screening and air cargo and supply chain security

- AT-3.1.4 Share information on latest trends on aviation security
- AT-3.1.5 Conduct ASEAN Joint Assessment on Aviation Security to work towards compliance with ICAO SARPs

AT-4 Enhance air traffic management efficiency and capacity through a seamless ASEAN sky

AT-4.1 Continue to support ICAO's efforts and implementation plan for air traffic management in the Asia Pacific Region

- AT-4.1.1 Support ICAO's efforts and implementation plan for air traffic management in the Asia Pacific Region

AT-4.2 Develop and implement the ASEAN Air Traffic Management (ATM) Master Plan in accordance with ICAO's Asia Pacific Seamless ATM Plan and the Global Air Navigation Plan's ASBU Framework

- AT-4.2.1 Adopt the ASEAN Air Traffic Management Master Plan
- AT-4.2.2 Implement the ASEAN Air Traffic Management Master Plan
- AT-4.2.3 Develop and implement performance measurement framework

AT-4.3 Exchange information on ASEAN air navigation infrastructure and services

- AT-4.3.1 Establish database and information sharing system of ASEAN air navigation infrastructure and services

AT-4.4 Strengthen the region's modelling and simulation capability to analyse air traffic flows in support of the ASEAN ATM Masterplan

- AT-4.4.1 Establish capability to provide annual ASEAN air traffic baseline to support air traffic flow analysis

AT-5 Strengthen ASEAN Search and Rescue (SAR) cooperation to ensure effective and coordinated aeronautical and maritime SAR operations in the region.

AT-5.1 Improve capacity and capability on SAR

- AT-5.1.1 Develop the ASEAN SAR Standard Operating Procedures
- AT-5.1.2 Familiarise ASEAN Member States with ASEAN SAR Standard Operating Procedures
- AT-5.1.3 Improve skill and knowledge of SAR Personnel

Land Transport

40. Recognising that transport infrastructure is a key determinant of performance in the transport sector, ASEAN Member States shall continue to achieve land transport infrastructure (road and railway) integration and inter-modal interconnectivity, with principal airports, ports, and inland waterway and ferry links. ASEAN Member States shall also promote concerted and coordinated efforts at policy and operation level to develop ASEAN land transport trade corridors.

41. With regard to road safety, considering that the 2013 World Health Organization Global Status Report on Road Safety, which describes that 1.24 million people are killed on the roads a year, of which 53,537 are from ASEAN Member States, causing major threats to public health and development around the globe and taking into account the rapid growth of motorisation in the region, ASEAN Member States underscored the need to undertake collective effort to reduce the risk of road crash especially among the vulnerable road users.

42. Considering the above, the specific goals and actions for land transport for the period of 2016-2025 are:

LT-1 Accomplish the implementation of the SKRL main lines and detailed designs for the spur lines

LT-1.1 Complete construction the missing link sections of SKRL main lines

LT-1.1.1 Cambodia: Phnom Penh-Tra Peang Sre (Cambodia/Viet Nam border) (255 km)

LT-1.1.2 Viet Nam: Loc Ninh (Cambodia/Viet Nam border)-Ho Chi Minh City (129 km)

LT-1.2 Complete the Feasibility Study and/or detailed designs for the spur lines of SKRL

LT-1.2.1 Viet Nam: Mu Gia - Tan Ap - Vung Ang (119 km)

LT-1.2.2 Lao PDR: Vientiane - Thakhaek - Mu Gia (466 km)

LT-1.2.3 Myanmar: Dawei-Htiki/Ban Phu Nam Ron

LT-1.2.4 Thailand: Htiki/Ban Phu Nam Ron - Kanchanaburi

LT-1.3 Complete supplementary upgradation work in ASEAN Member States to support SKRL

LT-1.3.1 Cambodia: Bat Deoung - Sisophon (306 km)

LT-1.3.2 Cambodia: Track reconstruction Bat Deoung to km 9 (22.6 km)

- LT-1.3.3 Cambodia: Track reconstruction of Phnom Penh to Green Trade Warehouse (6 km)
- LT-1.3.4 Lao PDR: Savannakhet - Laobao (220 km)
- LT-1.3.5 Malaysia: Double track construction of Gemas-Johor Bahru section (197 km)
- LT-1.3.6 Thailand: Double track construction of northeastern line, Mab Kabao - Thanon Jira Junction (132 km)
- LT-1.3.7 Thailand: Double track construction of northeastern line, Thanon Jira Junction - Khon Kae (185 km)
- LT-1.3.8 Thailand: Double track construction of northeastern line, Khon Kae - Nong Khai (174 km)
- LT-1.3.9 Thailand: Double track construction of southern line, Nakhon Phathom - Huahin (165 km)
- LT-1.3.10 Thailand: Double track construction of southern line, Huahin - Prachuab Khiri Khan (90 km)
- LT-1.3.11 Thailand: Double track construction of southern line, Prachuab Khiri Khan - Chumphon (167 km)
- LT-1.3.12 Thailand: Double track construction of southern line, Chumphon - Surat Thani (167 km)
- LT-1.3.13 Thailand: Double track construction of southern line, Surat Thani - Hat Yai (295 km)
- LT-1.3.14 Thailand: Double track construction of southern line, Hat Yai - Padang Besar (45 km)
- LT-1.3.15 Viet Nam: Ha Noi - Lao Cai (connected to China)
- LT-1.3.16 Viet Nam: Ha Noi - Ho Chi Minh City (Ha Noi - Vinh section 319 km, Nha Trang - Ho Chi Minh City section 412 km, Hai Van tunnel and Khe Net tunnel)
- LT-1.3.17 Track gauge conversion works between Lao Kao Border Station (Viet Nam) and Ha Khau Border Station (China)

- LT-1.4 Develop implementation framework for seamless operation of SKRL
 - LT-1.4.1 Identify and collect data for seamless operations of SKRL
 - LT-1.4.2 Adopt the Implementation Framework for seamless operation of SKRL

- LT-1.5 Conduct study on the possibility of extending the SKRL to Surabaya, Indonesia
 - LT-1.5.1 Develop an Action Plan on the Implementation of the Project, where possible

LT-2 Completion of ASEAN Highway Network project

- LT-2.1 Upgrade “below Class III” roads on Transit Transport Routes (TTRs)
 - LT-2.1.1 Lao PDR: AH12 Nateuy - Oudomxai - Luang Prabang - Vientiane (293 of 682 km)
 - LT-2.1.2 Lao PDR: AH15 Banlao - Nam Phao (98 km of 132 km)
 - LT-2.1.3 Myanmar: AH1 Tamu - Mandalay - Meiktila - Yangon - Bago - Payagyi - Thaton - Myawadi (229 of 1,656 km)
 - LT-2.1.4 Myanmar: AH2 Meiktila - Loilem - Kyaing Tong - Tachilek (307 of 807 km)
 - LT-2.1.5 Indonesia: AH150 Pontianak - Entikong (273.28 km)

- LT-2.2 Upgrade other “below Class III” roads
 - LT-2.2.1 Lao PDR: AH 13 Oudomxai - Pakbeng (133 km)
 - LT-2.2.2 Lao PDR: AH131 Thakhek - Na Phao (96 km of 146 km)
 - LT-2.2.3 Lao PDR: AH 132 Phia Fay - Phoukeua/Bo Y (109 of 221 km)
 - LT-2.2.4 Myanmar: AH111 Thibaw-Loilem (223 of 239 km)
 - LT-2.2.5 Myanmar: AH112 Mawlamyaing - Ye - Mahwal Taung (44.06 km)
 - LT-2.2.6 Myanmar: AH112 Dawei - Myeik (145 km)
 - LT-2.2.7 Myanmar: AH112 Myeik - Tanintharyi (64 km)
 - LT-2.2.8 Myanmar: AH112 Tanintharyi - Bokepyin (156 km)
 - LT-2.2.9 Myanmar: AH112 Bokepyin - Kau Thaug (87.94 km)
 - LT-2.2.10 Myanmar: AH112 Lanya - Khlongloi (60 km)
 - LT-2.2.11 Myanmar: AH123 Myittar - Thai Border (85 km)
 - LT-2.2.12 Myanmar: AH123 Dawei - Myittar (56 km)
 - LT-2.2.13 Viet Nam: AH13 Dien Bien - Tay Trang (18 km)
 - LT-2.2.14 Viet Nam: AH132 Bo Y - Kon Tum (73 km)

- LT-2.3 Upgrade “Class II or III” sections with high traffic volume
 - LT-2.3.1 Cambodia: AH1 Battambang-Serei Sophorn (84.74 km) into four lanes, including: one bypass in Battambang (23.1 km) and one bypass in Serei Sophorn (13.4 km)
 - LT-2.3.2 Cambodia: AH1 Poipet - Aranyaprathet New Road with Cross - Border Facilities (Cambodia Part)
 - LT-2.3.3 Cambodia: AH1 four lane expansion, Thlea Ma’am-Battambang and Serei Sophorn - Poipet City including Pursat bypass (157.5 km)
 - LT-2.3.4 Cambodia: AH1 four lane expansion, Prek Kdam - Thlea Ma’am (135.4 km) including 2 bypasses

- LT-2.3.5 Cambodia: AH1 four lane expansion, Phnom Penh - Prek Kdam (30 km)
- LT-2.3.6 Cambodia: AH11 four lane expansion, Phnom Penh - Skun district (75 km) including 2 bypasses
- LT-2.3.7 Cambodia: AH1 four lane expansion, (National Road 1) Phnom Penh-Kdei Ta Koy (4 km)
- LT-2.3.8 Cambodia: AH1 four lane expansion, (National Road 1) Kdey Ta Koy to Bavet (Cambodia - Viet Nam border) (161 km)
- LT-2.3.9 Cambodia: AH11 four lane expansion, (National Road 4) Phnom Penh - Kampong Speu Province (60 km)
- LT-2.3.10 Cambodia: AH11 four lane expansion, (National Road 4) Kampong Speu - Sihanoukville Province (166 km)
- LT-2.3.11 Cambodia: AH123 Sre Ambel - Cham Yeam/Hatlek (Cambodia - Thailand) (161 km)
- LT-2.3.12 Indonesia: AH150 Tayan-Sanggau - Entikong Border (300.34 km)
- LT-2.3.13 Lao PDR: AH11 four lane highway project Vientiane - Ban Hay section (63 km)
- LT-2.3.14 Lao PDR: AH12 four lane highway project from Vientiane - Phon Hong section (73 km)
- LT-2.3.15 Thailand: AH1 four lane highway widening project Tak Mae Sot (52 km)
- LT-2.3.16 Thailand: AH1 second Thailand-Myanmar Friendship Bridge crossing Moei/Thaungyin River and approaching roads (21.4 km)
- LT-2.3.17 Thailand: AH3 four lane highway widening project, Chiang Rai - Khun Tan (48 km)
- LT-2.3.18 Thailand: AH16 New alignment road project, Kalasin - Ban Na Kai (80 km)
- LT-2.3.19 Thailand: AH19 Motorway Pattaya - Map Ta Phut project (32 km)
- LT-2.3.20 Thailand: AH123 four lane highway widening project, Trat-Hat Lek (70 km)

- LT-2.4 Build the highway between Kanchanaburi and Dawei
 - LT-2.4.1 Myanmar: Dawei/Htiki - Ban Phu Nam Ron (141 km)
 - LT-2.4.2 Thailand: Htiki/Ban Phu Nam Ron - Kanchanaburi (78 km)

- LT-2.5 Complete stocktaking of AHN inventory data
 - LT-2.5.1 Update on AHN inventory data

- LT-2.6 Improve the quality of transportation on TTRs
 - LT-2.6.1 Compile technical standards, manuals and best practices of road paving for large-sized vehicle transportation
 - LT-2.6.2 Promote the enforcement of vehicle weight regulations including establish a regional platform for discussion

- LT-2.7 Complete the installation of common road signs and the route numbering system on all TTRs
 - LT-2.7.1 Indonesia: AH 25 Dumai - Pekanbaru - Jambi - Palembang - Lampung - Bakauheni
 - LT-2.7.2 Indonesia: AH 25 Dumai - Medan - Banda Aceh
 - LT-2.7.3 Indonesia: AH2 Semarang - Cikampek - Jakarta - Merak
 - LT-2.7.4 Indonesia: AH 2 Gilimanuk - Tabanan - Denpasar - Tuban
 - LT-2.7.5 Indonesia: AH2 Semarang - Surabaya - Banyuwangi
 - LT-2.7.6 Indonesia: AH150 Pontianak - Sosok - Tayan - Entikong
 - LT-2.7.7 Lao PDR: AH11 and AH12
 - LT-2.7.8 Malaysia: AH2 Bukit Kayuhitam - Butterworth - Kuala Lumpur - Seremban - Senai Utara
 - LT-2.7.9 Malaysia: AH150 Sematan - Kuching - Sibul - Miri - Kota Kinabalu - Sandakan - Lahad Datu - Tawau

LT-3 Enhance the use of “Intelligent Transport System” (ITS)

- LT-3.1 Formulate and Implement the “ITS Master Plan”
 - LT-3.1.1 Formulate the “ITS Master Plan for ASEAN”, addressing the goals, design of ITS architecture, determination of standards for ASEAN and developing implementation and monitoring mechanism
 - LT-3.1.2 Formulate the national ITS policy and master plans for AMSs addressing the policy, standards, ITS development, operation & maintenance, and monitoring mechanism
 - LT-3.1.3 Implement the “ITS Master Plan for ASEAN” and the national ITS policy and master plans

- LT-3.2 Implement the ITS Capacity Building Programmes
 - LT-3.2.1 Identify and conduct necessary seminars and trainings on ITS

LT-4 Develop an effective network of ASEAN dry ports in accordance with existing ASEAN initiatives such as the AHN and SKRL

- LT-4.1 Conduct study and formulate regional network plan for the development of dry port
 - LT-4.1.1 Formulate a Regional network plan

- LT-4.2 Finalise the list of dry port in ASEAN and identify key measures to improve the effectiveness of the agreed ASEAN dry port network
 - LT-4.2.1 Identify feasible list of dry ports in ASEAN
 - LT-4.2.2 Adopt the list of dry port in ASEAN and agree on the key measures to improve the effectiveness of the network
 - LT-4.2.3 Implement the agreed key measures

LT-5 Reduce the road fatalities by 50% in ASEAN Member States by 2020 and work towards further decreasing the forecast level of road fatalities in ASEAN by 2030

- LT-5.1 Align and implement road safety initiatives in accordance with the 5 strategic pillars (Road Safety Management, Safer Roads and Mobility, Safer Vehicles, Safer Road Users & Post Crash Response) of UN's Decade of Action for Road Safety
 - LT-5.1.1 Develop guidelines for improving the standard procedure for reporting road crashes based on UN standards
 - LT-5.1.2 Adopt data collection template on road crashes in accordance to global standards
 - LT-5.1.3 Share knowledge and experiences on the implementation of safer roads and mobility pillar
 - LT-5.1.4 Exchange of information, experiences and best practices with regard to the implementation of safety standard of all vehicles on the road
 - LT-5.1.5 Sharing of knowledge and best practices on road safety, which include awareness, education and law enforcement programmes
 - LT-5.1.6 Compile best practices on post-crash responses

LT-5.2 Strengthen institutional capacity for enhanced cooperation in road safety

LT-5.2.1 Convene seminars/workshops/training programmes on road safety

LT-5.3 Continued improvement of road safety policy and programme to further enhance the road safety in ASEAN region

LT-5.3.1 Reduce road traffic injuries and fatalities by another 25% from 2021 to 2030

LT-5.4 Harmonise safety regulation with the UN regulation based on accident analysis in ASEAN and work towards mutual recognition to improve safety

LT-5.4.1 Conduct study on existing measures and policies regarding the road safety

LT-6 Develop a database of ASEAN land transport network

LT-6.1 Develop a map of ASEAN land transport network including all relevant information on the AHN, SKRL, and dry ports

LT-6.1.1 Publish a map of ASEAN land transport network

LT-7 Intensify regional cooperation in improving transport safety

LT-7.1 Review existing statistics, policies and programmes at regional and national level

LT-7.1.1 Gap analysis

LT-7.2 Identify training needs to further improve transport safety in the region

LT-7.2.1 Conduct training on transport safety at regional and national level

Maritime Transport

43. Around 80 per cent of global merchandise trade by volume carried by sea and handled by ports worldwide, it is constituting commitment of ASEAN Member States to continue strengthening maritime connectivity through the establishment of ASEAN Single Shipping Market (ASSM), regional maritime transport cooperation and effective implementation of the International Maritime Organization (IMO) conventions towards realising an integrated, efficient and competitive maritime transport including fostering

a culture of maritime safety within ASEAN. Another new initiative to be pursued in the post-2015 is to look into the development of strategic maritime logistic corridors. The specific goals and actions for maritime transport for 2016-2025 are:

MT-1 Realise the ASEAN Single Shipping Market through the implementation of the agreed strategies and measures

MT-1.1 Develop and monitor Key Performance Indicator on port efficiency
e.g. cargo handling and ship turnaround time

MT-1.1.1 Monitor and, when necessary, review the KPIs to improve efficiency of ASEAN ports

MT-1.2 Conduct a pilot project on the operationalisation of ASSM including in-depth cost and benefit studies

MT-1.2.1 Complete and adopt the recommendations of the pilot project

MT-1.3 Identify a mechanism to mutually recognise the certificates of competency for Near Coastal Voyages issued by ASEAN Member States

MT-1.3.1 Adopt the mechanism to mutually recognise the certificates of competency for NCV issued by ASEAN Member States

MT-1.4 Enhance the implementation of Electronic Data Interchange (EDI) in ASEAN ports

MT-1.4.1 Support and enhance EDI in ASEAN, and study the possibility for harmonisation

MT-1.5 Establish a national coordinating body, where applicable, to oversee the port and land transport infrastructure development which will work on a national master plan for port and land transport development for better port access

MT-1.5.1 Include projects to improve accessibility of ASEAN's ports into relevant master plans developed by ASEAN Member States

MT-1.6 Enhance the capacity of the 47 designated ports

MT-1.6.1 Review designated ports and implement projects to enhance their capacities

MT-1.7 Improve reliability of technical standards of ASEAN Ports
MT-1.7.1 Exchange information on technical standards through seminars

MT-1.8 Establish cruise corridors

MT-1.8.1 Develop cruise promotion policies and institutional policies

MT-1.8.2 Develop cruise tourist attractions and cruise and on-shore itinerary

MT-1.8.3 Improve cruise infrastructure

MT-1.8.4 Enhance quality of cruise tourism through training and education programmes and better coordination with tourism agencies

MT-1.8.5 Establish data collation and common methodology of cruise

MT-1.8.6 Conduct cruise marketing promotion

MT-2 Realise the RO-RO shipping network operation in ASEAN

MT-2.1 Conduct dialogue among the concerned ASEAN Member States for the preparation of RO-RO routes operation

MT-2.1.1 Improve institutional arrangements (e.g. CIQ, road administrations) to enable smooth operationalisation of the RO-RO route

MT-2.1.2 Improve port infrastructure and facilities at the implementing countries to increase efficiency in serving the RO-RO routes

MT-2.2 Operationalisation of RO-RO shipping network operation in ASEAN

MT-2.2.1 Facilitate trade and tourist movements among the concerned countries

MT-2.2.2 Initial run of the ASEAN-RO RO

MT-3 Develop an efficient and integrated inland waterway transport (IWT) network

MT-3.1 Conduct a study and formulate a regional plan for developing IWT in ASEAN

MT-3.1.1 Complete the Development Study for Inland Improvement project in Thailand and CLMV Countries

- MT-3.2 Further improve linkage among countries in the Mekong region
 - MT-3.2.1 Conduct relevant researches and workshops

- MT-3.3 Implement the suggestions/projects proposed by the above Development Study
 - MT-3.3.1 Implement the priority infrastructure improvement projects

MT-4 Enhance navigation system and security measures in line with international standards

- MT-4.1 Strengthen human resource base for port and shipping operations including navigation safety and maritime security
 - MT-4.1.1 Convene regional workshops / seminars to support implementation or ratification of IMO Conventions by ASEAN Member States
 - MT-4.1.2 Develop Guidelines for ASEAN Member States on maritime navigational and passenger safety
 - MT-4.1.3 Improve port security in ASEAN Member States through implementation of programmes of the Port Security Group

- MT-4.2 Development of VTS operators capacity
 - MT-4.2.1 Establish ASEAN regional training centers for VTS operators
 - MT-4.2.2 Conduct trainings for VTS operators

- MT-4.3 Improve the quality and efficiency of the Safety, Health and Environmental management for selected ports
 - MT-4.3.1 Compile the Best Practices on the improvement of the quality and efficiency of the Safety, Health and Environmental management for selected ports
 - MT-4.3.2 Improve the quality and efficiency of the Safety, Health and Environmental management for selected ports

MT-5 Formulate necessary policy initiatives and recommendations to develop strategic maritime transport logistics between ASEAN and Dialogue Partners

- MT-5.1 Conduct development studies and collaborative practical researches to develop strategic maritime transport logistics between ASEAN and Dialogue Partners
 - MT-5.1.1 Conduct studies with ASEAN Dialogue Partners on maritime transport logistics

- MT-5.2 Promote the development of port technology through Port Technology Group
 - MT-5.2.1 Compile guidelines to develop port technology

- MT-5.3 Continue to engage Dialogue Partners and other partners to conclude maritime transport agreements
 - MT-5.3.1 Implement ASEAN-China Maritime Transport Agreement
 - MT-5.3.2 Explore the possibilities of concluding maritime transport agreements with other ASEAN Dialogue Partners

MT-6 Intensify regional cooperation in improving transport safety

- MT-6.1 Review existing statistics, policies and programmes at regional and national level
 - MT-6.1.1 Gap Analysis

- MT-6.2 Identify training needs to further improve transport safety in the region
 - MT-6.2.1 Conduct training on transport safety at regional and national level

MT-7 Strengthen ASEAN Search and Rescue (SAR) cooperation to ensure effective and coordinated aeronautical and maritime SAR operations in the region

- MT-7.1 Improve capacity and capability on SAR
 - MT-7.1.1 Develop the ASEAN SAR Standard Operating Procedures
 - MT-7.1.2 Familiarise ASEAN Member States with ASEAN SAR Standard Operating Procedures
 - MT-7.1.3 Improve skill and knowledge of SAR Personnel

Sustainable Transport

44. As the international community is paying increasing attention to the transport sector as one of the crucial components for sustainability of development patterns, ASEAN Member States agreed to actively pursue sustainable transport and include this issue as part of regional transport strategic plan. The approach for increasing transport sustainability will focus on formulating a regional policy framework to support sustainable transport which includes low carbon modes of transport, energy efficiency and user-friendly transport initiatives, integration of transport and land use planning. The specific goals and actions for sustainable transport are:

ST-1 Intensify regional cooperation in the development of sustainable transport-related policies and strategies

- ST-1.1 Institute coordinated approach to further promote non-motorised and public transport in ASEAN cities
 - ST-1.1.1 Develop “Avoid”, “Shift” and “Improve” (ASI) strategies at the regional and Member States level
 - ST-1.1.2 Improve road infrastructure in all ASEAN Member States that accommodate non-motorised transport modes

- ST-1.2 Enhance sharing and adoption of experiences, projects and knowledge related to sustainable transport
 - ST-1.2.1 Publish an ASEAN database of sustainable transport initiatives
 - ST-1.2.2 Exchange information and capacity building through expert group meetings for safe, secure, green and user friendly transport
 - ST-1.2.3 Share knowledge and experiences related to finance and tax incentives for green transport

- ST-1.3 Initiate and support to the development and implementation of fuel economy policies and standard as well as policies towards cleaner fuels and vehicles and vessels
 - ST-1.3.1 Establish a platform to discuss matters related to fuel economy for the transport sector
 - ST-1.3.2 Formulate a fuel economy roadmap for the transport sector in ASEAN including policy guidelines
 - ST-1.3.3 Support to the development and adoption of nationally appropriate policies for cleaner fuels and vehicles

- ST-1.3.4 Convene seminars to share knowledge and experiences on environmental friendly ships including LNG fueled ships
 - ST-1.3.5 Conduct fact finding research/feasibility study to encourage use of environmental friendly ships in ASEAN
 - ST-1.3.6 Develop strategy to encourage use of environmental friendly ships in ASEAN
 - ST-1.3.7 Implement the strategy including the start the operation of environmental friendly ships
 - ST-1.3.8 Conduct information sharing of Eco-Airports in ASEAN region
 - ST-1.3.9 Implement the improvement projects for capacity building on Eco-Airports
- ST-1.4 Develop a regional framework towards green and efficient freight and logistics in order to support ASEAN Member States in implementing respective policies
- ST-1.4.1 Develop Green Freight and Logistics database
 - ST-1.4.2 Develop Green Freight and Logistics Strategy
 - ST-1.4.3 Develop and implement Green Logistics Measures that would encourage private sectors and individual consumers to promote Green Logistics
 - ST-1.4.4 Share and create the best practices summary report on Green Logistics of ASEAN Member States
 - ST-1.4.5 Create a Checklist Guide on Green Logistics to provide guidance and instruction toward the private sectors initiatives and operations to promote Green Logistics.

ST-2 Identify and implement the key measures on sustainable transport

- ST-2.1 Ensure government support and commitment for the implementation of sustainable transport
 - ST-2.1.1 Develop and adopt policies related to the identified measures for the implementation of sustainable transport
 - ST-2.1.2 Review the implementation of the policies and, where necessary, adopt new policies
- ST-2.2 Diffuse best PPP practices for developing transport infrastructure needed for sustainable transport
 - ST-2.2.1 Exchange information and capacity building for PPP through seminars

- ST-2.3 Develop monitoring framework and harmonised approach for indicators on energy and GHG emissions in the transport sector
 - ST-2.3.1 Carry out workshop and study on potential indicators and monitoring
 - ST-2.3.2 Adopt an action plan to develop and operationalize indicators (and/or) Guidelines on monitoring and indicators
 - ST-2.3.3 Compile data on transport indicators

- ST-2.4 Implement effective measures to accommodate international standards and execute them in cooperation with international transport organisations
 - ST-2.4.1 Initiate cooperation for exploring regional requirements on ballast water management (BWM) technology for coastal ships, including risk assessment, emergency measures and port biological baseline surveys
 - ST-2.4.2 Establish a framework of regional cooperation for the implementation of IMO BWM Convention

- ST-2.5 Promote the integration of transport and land use planning
 - ST-2.5.1 Convene seminars/workshops to enhance the capacity in the integration of transport and land use planning
 - ST-2.5.2 Develop guidelines on integration of transport and land use planning

ST-3 Enhance human resource activities and institutions for sustainable transport system

- ST-3.1 Strengthen sustainable transport education and training through greater networking with training centres, educational institutions and expert institutions
 - ST-3.1.1 Create a sustainable transport knowledge exchange platform within the ASEAN
 - ST-3.1.2 Carry out trainings in the field of sustainable transport for representatives of transport related agencies and ministries

Transport Facilitation

45. Considering that transport costs and high-quality services are increasingly significant for trade and production patterns, for the period of 2016-2025, ASEAN Member States shall continue to exert their effort to operationalise transport facilitation agreements that directly impact the logistics sector in the future. The operationalisation of the ASEAN Framework Agreement on Facilitation of Cross-Border Transport of Passengers by Road Vehicles (CBTP) shall also be worked on. In addition, ASEAN Member States shall undertake various programmes or activities to enhance capacity and skills development to further progress regional transport facilitation cooperation as well as transport facilitation beyond ASEAN. In this context, the specific goals and actions for transport facilitation are:

TF-1 Accomplish the implementation of AFAFGIT and AFAFIST

TF-1.1 Develop and implement necessary ASEAN transport facilitation-related procedures for the operationalisation of AFAFGIT and AFAFIST

TF-1.1.1 Develop necessary ASEAN transport facilitation-related procedures

TF-1.1.2 Operationalise the AFAFGIT and AFAFIST

TF-1.2 Support the operationalisation of the National Transit Transport Coordinating Committee (NTTCC) to monitor the implementation of AFAFGIT and AFAFIST

TF-1.2.1 Improve coordination of relevant stakeholders under NTTCC in the implementation of AFAFGIT and AFAFIST

TF-2 Support the operationalisation of the National Transit Transport Coordinating Committee (NTTCC) to monitor the implementation of AFAFGIT in pilot project

TF-2.1 Develop and implement necessary ASEAN transport facilitation-related procedures for the operationalisation of AFAFGIT in ACTS Pilot Testing, which include AFAFGIT Protocols 1 (Designation of TTR and Facilities), 3 (Type and Quantity of Road Vehicles), and 4 (Technical Requirements of Vehicles)

TF-2.1.1 Fully ratify the AFAFGIT Protocol 1 and approve the Transit Transport Routes in all ASEAN Member States

TF-2.1.2 Operationalise the AFAFGIT Protocol 3: operationalisation of ASEAN standardised Transit Permit

TF-2.1.3 Operationalise the AFAFGIT Protocol 4: Operationalisation of cross-border goods vehicles in conformance with the agreed technical specifications

TF-2.1.4 AFAFGIT Protocol 4: Comply with the standard documents (in English or in English translation) to be held on the road transport vehicle

TF-2.2 Conduct time release studies to measure time required for the goods vehicles crossing the borders

TF-2.2.1 Complete the analysis on the result of time release studies during pre-and post-Pilot test and recommendations for improvement

TF-2.2.2 Monitoring of the reduction time for the goods vehicles crossing the borders in the roll-out and operational phases

TF-3 Assessment on the implementation of AFAMT

TF-3.1 Develop an implementation framework for AFAMT by reviewing and streamlining different procedures of mode of transport, in line with the development of global multimodal transport regime, to include the legal, regulatory and procedural aspects and Facilities), 3 (Type and Quantity of Road Vehicles), and 4 (Technical Requirements of Vehicles)

TF-3.1.1 Develop the Implementation Framework for AFAMT

TF-3.1.2 Develop and adopt the Action Plan and implementation mechanism for AFAMT

TF-3.1.3 Streamline multi-modal logistics and supply chain is implemented through the implementation of AFAMT, leading to reduced end-to-end handling of multi-modal cargo

TF-4 Strengthen coordination with sub-regional initiatives in the implementation of AFAFGIT, AFAFIST and AFAMT for a more convergence cross-border transport operation in the region

TF-4.1 Establish a mechanism between ASEAN and sub-regional initiatives to cooperate/exchange information on the implementation of cross-border transport operations in the region

- TF-4.1.1 Establish a formal platform/cooperation mechanism and exchange of information on implementation of regional cross-border operations

TF-5 Implement ASEAN Framework Agreement on Facilitation of Cross-Border Transport of Passengers by Road Vehicles (CBTP)

- TF-5.1 Develop Implementing Guidelines for ASEAN CBTP and operationalise the ASEAN CBTP
 - TF-5.1.1 Adopt the Implementing Guidelines of ASEAN CBTP
 - TF-5.1.2 Operationalise the ASEAN CBTP, subject to ratifications from ASEAN Member States

- TF-5.2 Support the operationalisation of the National Transit Transport Coordinating Committee (NTTCC) to monitor the implementation of ASEAN CBTP
 - TF-5.2.1 Improve coordination of relevant stakeholders under NTTCC in the implementation of ASEAN CBTP

TF-6 Enhance the level of skills and expertise of ASEAN transport officials in implementing effective, simplified ASEAN transport facilitation procedures

- TF-6.1 Develop Core Competencies required for ASEAN transport officials in implementing ASEAN transport facilitation-related procedures
 - TF-6.1.1 Develop the List of Core Competencies
 - TF-6.1.2 Develop Capacity Building Plan for ASEAN transport officials in implementing ASEAN transport facilitation procedures

TF-7 Promote logistics regional cooperation within ASEAN and with Dialogue Partners

- TF-7.1 Develop ASEAN logistics network and cooperation with Dialogue Partners
 - TF-7.1.1 Develop a platform for regional cooperation on logistics within ASEAN Member States and with Dialogue Partners
 - TF-7.1.2 Implement Policy Dialogue between ASEAN Member States and Dialogue Partners
 - TF-7.1.3 Implement Experts Group Meeting on Logistics with Dialogue Partners

TF-8 Development of skills and capacity on Logistics and Supply Chain Management for Logistics Service Providers (LSPs)

TF-8.1 Adopt and implement Regional Core Curriculum for Logistics and Supply Chain Management

TF-8.1.1 Adopt and implement Regional Core Curriculum for Logistics and Supply Chain Management

TF-8.1.2 Develop Core Competencies for Logistics Service Providers (LSPs) professionals

TF-8.1.3 Develop Capacity Building Plan for LSPs

TF-8.2 Implement Logistics HRD programs in collaboration with educational institutions

TF-8.2.1 Conduct Logistics HRD trainings in ASEAN Member States in cooperation with educational institutions and Dialogue Partners



Implementation Arrangements

IV. IMPLEMENTATION ARRANGEMENTS

Transport Organs

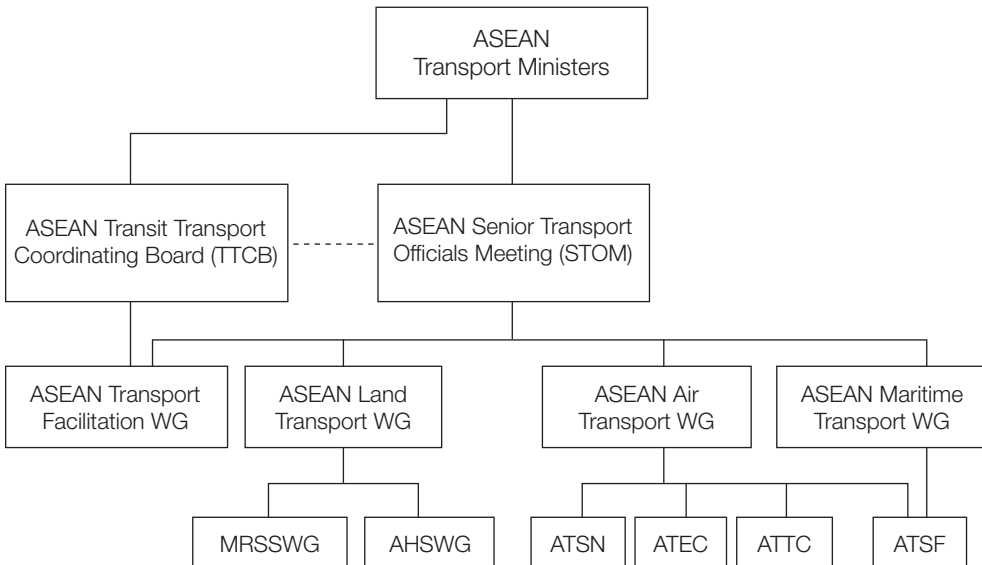
46. ASEAN Transport Ministers (ATM) Meeting, as the highest ASEAN transport body, shall set policy directions in the transport sector and discuss issues of common interest. The ASEAN Senior Transport Officials Meeting, as the executive body, shall supervise, coordinate, and review programmes as well as directions set by ASEAN Transport Ministers.

47. The existing working groups, namely: ASEAN Air Transport Working Group, ASEAN Land Transport Working Group, ASEAN Maritime Transport Working Group, and ASEAN Transport Facilitation Working Group shall be continued as the principal coordinating and implementing arms of the ASEAN Senior Transport Officials Meeting (STOM) in carrying out the various programmes, projects and activities of the sectoral areas as specified in the ASEAN Transport Strategic Action Plan 2016-2025. Transport bodies which have been established or designed for specific activity under specific agreements shall also continue their work. The transport organs and the organizational structure are as follows:

<ul style="list-style-type: none"> ■ ASEAN Transport Ministers (ATM) Meeting ■ ASEAN Senior Transport Officials Meeting (STOM) ■ ASEAN Air Transport Working Group (ATWG) ■ ASEAN Land Transport Working Group (LTWG) ■ ASEAN Maritime Transport Working Group (MTWG) ■ ASEAN Transport Facilitation Working Group (TFWG) ■ ASEAN Multisector Road Safety Special Working Group (MRSSWG) ■ ASEAN Transport SAR Forum (ATSF) 	
<p><i>Transport bodies established or designed for specific activity under specific agreements:</i></p>	
<p>Air Transport</p>	<ul style="list-style-type: none"> ■ ASEAN Air Transport Economic Cooperation Sub-Working Group (ATEC SWG) ■ ASEAN Air Transport Technical Cooperation Sub-Working Group Meeting (ATTC SWG) ■ ASEAN Air Transport Sectoral Negotiations (ATSN)

Land Transport	■ ASEAN Highways Sub Working Group (AHSWG)
Maritime Transport	■ ASEAN Single Shipping Market Coordinating Boarding
Transport Facilitation	■ ASEAN Transit Transport Coordinating Board (TTCB)

Organisational Structure of ASEAN Transport Cooperation



Chairmanship and Vice-Chairmanship

48. Chairmanship and Vice-Chairmanship of ATM-STOM, Working Groups and Sub-Working Groups, unless otherwise agreed by the concerned body, shall be on rotation basis or alphabetical order.

49. Chairmanship of ATM and STOM shall be for a period of 1 year and chairmanship of Working Group shall be for a period of 2 years. Vice-Chairman shall assume chairmanship of the respective meetings thereafter.

50. The Member States assuming the chairmanship of the ATM-STOM, Working Group and Sub-Working Group shall be the host of the meetings, unless otherwise agreed by the concerned body.

51. The chairmanship and vice-chairmanship for transport meeting will be, as follows:

CHAIRMANSHIP OF STOM-ATM

YEAR	CHAIRMAN
2016	Philippines
2017	Singapore
2018	Thailand
2019	Viet Nam
2020	Brunei Darussalam

YEAR	CHAIRMAN
2021	Cambodia
2022	Indonesia
2023	Lao PDR
2024	Malaysia
2025	Myanmar

CHAIRMANSHIP OF ATWG

YEAR	CHAIRMAN
2016	Lao PDR
2017	Lao PDR
2018	Malaysia
2019	Malaysia
2020	Philippines

YEAR	CHAIRMAN
2021	Philippines
2022	Singapore
2023	Singapore
2024	Thailand
2025	Thailand

CHAIRMANSHIP OF LTWG

YEAR	CHAIRMAN
2016	Singapore
2017	Singapore
2018	Thailand
2019	Thailand
2020	Viet Nam

YEAR	CHAIRMAN
2021	Viet Nam
2022	Brunei Darussalam
2023	Brunei Darussalam
2024	Cambodia
2025	Cambodia

CHAIRMANSHIP OF MTWG

YEAR	CHAIRMAN
2016	Philippines
2017	Philippines
2018	Singapore
2019	Singapore
2020	Thailand

YEAR	CHAIRMAN
2021	Thailand
2022	Viet Nam
2023	Viet Nam
2024	Brunei Darussalam
2025	Brunei Darussalam

CHAIRMANSHIP OF TFWG

YEAR	CHAIRMAN
2016	Viet Nam
2017	Viet Nam
2018	Brunei Darussalam
2019	Brunei Darussalam
2020	Cambodia

YEAR	CHAIRMAN
2021	Cambodia
2022	Indonesia
2023	Indonesia
2024	Lao PDR
2025	Lao PDR



APPENDIX
Schedule of Actions

SCHEDULE OF ACTIONS

AIR TRANSPORT

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
1. Work towards a more efficient and competitive air transport market and strengthen engagement with Dialogue Partners, thereby contributing to the economic growth, competitiveness and shared prosperity of ASEAN, while maintaining ASEAN Centrality	1.1 Review the MAAS, MAFLAFS, MAFLPAS, and their respective protocols and implementation as well as discuss further liberalization of key economic elements, where necessary, under the ASEAN Single Aviation Market (ASAM) Implementation Framework	1.1.1 Complete the review										
		1.1.2 Establish the mechanism, where necessary, to implement the agreed recommendations of the review										
		1.1.3 Implement the approved recommendations										
	1.2 Pursue further liberalisation of air transport ancillary services	1.2.1 Conclude the packages of commitments covering all 13 subsectors to be phased-in										
	1.3 Continue to engage Dialogue Partners and other partners to conclude more liberal and mutually beneficial air transport agreements, including 3 rd , 4 th and 5 th freedom traffic rights	1.3.1 Conclude and expand exchange of 5 th freedom traffic rights with China through conclusion of protocols										
		1.3.2 Conclude a Comprehensive Air Transport Agreement with the EU										
		1.3.3 Conclude Air Transport Agreement with India										
		1.3.4 Conclude Air Transport Agreement with Japan										
		1.3.5 Conclude Air Transport Agreement with ROK										
		1.3.6 Consider concluding Air Transport Agreements with other partners										

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
2. Advance safe skies in ASEAN	2.1 Continue with initiatives to improve regulatory capability and safety standards	2.1.1 Continue with implementation of ASEAN Aviation Regulatory Monitoring System											
		2.1.2 Establish a framework to share (foreign operators) ramp inspection information among ASEAN Member States (i.e., ASEAN Foreign Operator Safety Assessment)											
		2.1.3 Implement ASEAN Foreign Operator Safety Assessment initiative											
	2.2 Establish a mechanism to facilitate mutual recognition of approvals, certificates and licenses	2.2.1 Conclude a framework agreement to support future mutual recognition of approvals, certificates and licenses											
		2.2.2. Establish procedures to achieve mutual recognition for air operator certification, aircraft airworthiness (approved maintenance organisation certification), and flight crew / engineer licensing											
		2.2.3 Identify other areas such as approved training organisation and establish procedures to achieve mutual recognition											

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
3. Enhance Aviation Security in ASEAN in accordance to ICAO Standards and Recommended Practices (SARPs)	3.1 Promote capacity building and align aviation security measures with ICAO Standards and Recommended Practices	3.1.1 Conduct the POC network exercise on yearly basis										
		3.1.2 Leverage existing capacity building mechanisms such as those offered by the ICAO Asia and Pacific Regional Office, as well as other mechanisms to promote capacity building with a view towards increasing compliance with ICAO SARPs										
		3.1.3 Develop practical, harmonised and cost effective measures in key areas of aviation security such as in screening technologies and processes for liquids, aerosols and gels, passenger pre-board screening and air cargo and supply chain security										
		3.1.4 Share information on latest trends on aviation security										
		3.1.5 Conduct ASEAN Joint Assessment on Aviation Security to work towards compliance with ICAO SARPs										

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
4. Enhance air traffic management efficiency and capacity through a seamless ASEAN sky	4.1 Continue to support ICAO's efforts and implementation plan for air traffic management in the Asia Pacific Region	4.1.1 Support ICAO's efforts and implementation plan for air traffic management in the Asia Pacific Region											
	4.2 Develop and implement the ASEAN Air Traffic Management Master Plan in accordance with ICAO's Asia Pacific Seamless ATM Plan and the Global Air Navigation Plan's ASBU Framework.	4.2.1 Adopt the ASEAN Air Traffic Management Master Plan											
		4.2.2 Implement the ASEAN Air Traffic Management Master Plan											
		4.2.3 Develop and implement performance measurement framework											
	4.3 Exchange information on ASEAN air navigation infrastructure and services	4.3.1 Establish database and information sharing system of ASEAN air navigation infrastructure and services											
	4.4 Strengthen the region's modelling and simulation capability to analyse air traffic flows in support of the ASEAN ATM Masterplan	4.4.1 Establish capability to provide annual ASEAN air traffic baseline to support air traffic flow analysis											
5. Strengthen ASEAN SAR cooperation to ensure effective and coordinated aeronautical and maritime SAR operations in the region	5.1 Improve capacity and capability on SAR	5.1.1 Develop the ASEAN SAR Standard Operating Procedures											
		5.1.2 Familiarise ASEAN Member States with ASEAN SAR Standard Operating Procedures											
		5.1.3 Improve skill and knowledge of SAR Personnel											

LAND TRANSPORT

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
1. Accomplish the implementation of the SKRL main lines and detailed designs for the spur lines.	1.1 Complete construction the missing link sections of SKRL main lines	1.1.1 Cambodia: Phnom Penh-Tra Peang Sre (Cambodia/Viet Nam border) (255 km)											
		1.1.2 Viet Nam: Loc Ninh (Cambodia/Viet Nam border)-Ho Chi Minh City (129 km)											
	1.2 Complete the Feasibility Study and/or detailed designs for the spur lines of SKRL	1.2.1 Viet Nam: Mu Gia-Tan Ap-Vung Ang (119 km)											
		1.2.2 Lao PDR: Vientiane - Thakhaek-Mu Gia (466 km)											
		1.2.3 Myanmar: Dawei - Htiki/ Ban Phu Nam Ron											
		1.2.4 Thailand: Htiki/Ban Phu Nam Ron-Kanchanaburi											
	1.3 Complete supplementary upgradation work in ASEAN Member States to support SKRL	1.3.1 Cambodia: Bat Deoung - Sisophon (306 km)											
		1.3.2 Cambodia: Track reconstruction Bat Deoung to km9 (22.6 km)											
		1.3.3 Cambodia: Track reconstruction of Phnom Penh to Green Trade Warehouse (6 km)											
		1.3.4 Lao PDR: Savannakhet-Laobao (220 km)											
		1.3.5 Malaysia: Double track construction of Gemas-Johor Bahru section (197 km)											
		1.3.6 Thailand: Double track construction of northeastern line Mab Kabao – Thanon Jira Junction (132 km)											
		1.3.7 Thailand: Double track construction of northeastern line Thanon Jira Junction – Khon Kae (185 km)											
		1.3.8 Thailand: Double track construction of north - eastern line Khon Kae - Nong Khai (174 km)											
		1.3.9 Thailand: Double track construction of southern line Nakhon Phathom-Huahin (165 km)											

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
		1.3.10 Thailand: Double track construction of southern line Huahin - Prachuab Khiri Khan (90 km)										
		1.3.11 Thailand: Double track construction of southern line Prachuab Khiri Khan-Chumphon (167 km)										
		1.3.12 Thailand : Double track construction of southern line Chumphon-Surat Thani (167 km)										
		1.3.13 Thailand: Double track construction of southern line Surat Thani –Hat Yai (295 km)										
		1.3.14 Thailand: Double track construction of southern line Hat Yai-Padang Besar (45 km)										
		1.3.15 Viet Nam: Ha Noi-Lao Cai (connected to China)										
		1.3.16 Viet Nam: Ha Noi-Ho Chi Minh City (Ha Noi-Vinh section 319 km, Nha Trang-Ho Chi Minh City section 412 km, Hai Van tunnel and Khe Net tunnel)										
		1.3.17 Track gauge conversion works between Lao Kao Border Station (Viet Nam) and Ha Khau Border Station (China)										
	1.4 Develop implementation framework for seamless operation of SKRL	1.4.1 Identify and collect data for seamless operations of SKRL										
		1.4.2 Adopt the Implementation Framework for seamless operation of SKRL										
	1.5 Conduct study on the possibility of extending the SKRL to Surabaya, Indonesia	1.5.1 Develop an Action Plan on the Implementation of the Project, where possible										
2. Completion of ASEAN Highway Network project	2.1 Upgrade “below Class III” roads on TTR	2.1.1 Lao PDR: AH12 Nateuy - Oudomxai - Luang Prabang - Vientiane (293 of 682 km)										

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
		2.1.2 Lao PDR: AH15 Banlao - Nam Phao (98 km of 132 km)											
		2.1.3 Myanmar: AH1 Tamu - Mandalay - Meiktila - Yangon - Bago - Payagyi - Thaton - Myawadi (229 of 1,656 km)											
		2.1.4 Myanmar: AH2 Meiktila - Loilem - Kyaing Tong - Tachilek (307 of 807 km)											
		2.1.5 Indonesia: AH150 Pontianak-Entikong (273.28 km)											
	2.2 Upgrade other "below Class III" roads	2.2.1 Lao PDR: AH 13 Oudomxai – Pakbeng (133 km)											
		2.2.2 Lao PDR: AH131 Thakhek-Na Phao (96 km of 146 km)											
		2.2.3 Lao PDR: AH 132 Phia Fay– Phoukeua/Bo Y (109 of 221 km)											
		2.2.4 Myanmar: AH111 Thibaw -Loilem (223 of 239 km)											
		2.2.5 Myanmar: AH112 Mawlamyaing - Ye - Mahwal Taung (44.06 km)											
		2.2.6 Myanmar: AH112 Dawei - Myeik (145 km)											
		2.2.7 Myanmar: AH112 Myeik - Tanintharyi (64 km)											
		2.2.8 Myanmar: AH112 Tanintharyi - Bokepyin (156 km)											
		2.2.9 Myanmar: AH112 Bokepyin - KauThaung (87.94 km)											
		2.2.10 Myanmar: AH112 Lanya - Khlongloi (60 km)											
		2.2.11 Myanmar:AH123 Myittar - Thai Border (85 km)											
		2.2.12 Myanmar:AH123 Dawei - Myittar (56 km)											
		2.2.13 Viet Nam: AH13 Dien Bien - Tay Trang (18 km)											
		2.2.14 Viet Nam: AH132 Bo Y - Kon Tum (73 km)											

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	2.3 Upgrade "Class II or III" sections with high traffic volume	2.3.1 Cambodia: AH1 Battambang - Serei Sophorn (84.74 km) into four lanes, including: - 1 bypass in Battambang (23.1 km) - 1 bypass in Serei Sophorn (13.4 km)										
		2.3.2 Cambodia: AH1 Poipet - Aranyaprathet New Road with Cross - Border Facilities (Cambodia Part)										
		2.3.3 Cambodia: AH1 Four lane expansion, Thlea Ma'am - Battambang and Serei Sophorn - Poipet City including Pursat bypass (157.5 km)										
		2.3.4 Cambodia: AH1 Four lane expansion, Prek Kdam -Thlea Ma'am (135.4 km) including 2 bypasses										
		2.3.5 Cambodia: AH1 Four lane expansion, Phnom Penh - Prek Kdam (30 km)										
		2.3.6 Cambodia: AH 11 Four lanes expansion, Phnom Penh - Skun district (75 km) including 2 bypass										
		2.3.7 Cambodia: AH 1 Four lane expansion, (National Road 1) Phnom Penh - Kdei Ta Koy (4 km)										
		2.3.8 Cambodia: AH 1 Four lane expansion, (National Road 1) Kdei Ta Koy to Bavet (Cambodia - Viet Nam border) (161 km)										
		2.3.9 Cambodia: AH 11 Four lane expansion, (National Road 4) Phnom Penh - Kampong Speu Province (60 km)										
		2.3.10 Cambodia: AH 11 Four lane expansion, (National Road 4) Kampong Speu - Sihanouville Province (166 km)										

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
		2.3.11 Cambodia: AH123 Sre Ambel - Cham Yeam / Hatlek (Cambodia -Thailand) (161 km)											
		2.3.12 Indonesia: AH150 Tayan - Sanggau - Entikong Border (300,34 km)											
		2.3.13 Lao PDR: AH 11 Four lane highway project Vientiane - Ban Hay section (63 km)											
		2.3.14 Lao PDR: AH 12 Four lane highway project from Vientiane-Phon Hong section (73 km)											
		2.3.15 Thailand: AH1 Four lane highway widening project, Tak - Mae Sot (52 km)											
		2.3.16 Thailand: AH1 Second Thailand - Myanmar Friendship Bridge crossing Moei/Thaungyin River and approaching roads (21.4 km)											
		2.3.17 Thailand: AH3 Four lane highway widening project, Chiang Rai - Khun Tan (48 km)											
		2.3.18 Thailand: AH16 New alignment road project, Kalasin-Ban NaKai (80 km)											
		2.3.19 Thailand: AH19 Motorway Project, Pattaya - Map Ta Phut (32 km)											
		2.3.20 Thailand: AH123 Four lane highway widening project, Trat-Hat Lek (70 km)											
2.4 Build the highway between Kanchanaburi and Dawei	2.4.1 Myanmar: Dawei- Htiki / Ban Phu Nam Ron (141 km)												
	2.4.2 Thailand: Htiki/Ban Phu Nam Ron - Kanchanaburi (78 km)												
2.5 Complete stocktaking of AHN inventory data	2.5.1 Update on AHN inventory data												
2.6 Improve the quality of transportation on TTRs	2.6.1 Compile technical standards, manuals and best practices of road paving for large-sized vehicle transportation												

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
					2.6.2 Promote the enforcement of vehicle weight regulations including establish a regional platform for discussion							
	2.7 Complete the installation of common road signs and the route numbering system on all TTRs	2.7.1 Indonesia: AH 25 Dumai - Pekanbaru - Jambi - Palembang - Lampung - Bakauheni										
		2.7.2 Indonesia: AH 25 Dumai - Medan - Banda Aceh										
		2.7.3 Indonesia: AH2 Semarang - Cikampek - Jakarta - Merak										
		2.7.4 Indonesia: AH 2 Gilimanuk - Tabanan - Denpasar - Tuban										
		2.7.5 Indonesia: AH2 Semarang - Surabaya - Banyuwangi										
		2.7.6 Indonesia: AH150 Pontianak - Sosok - Tayan - Entikong										
		2.7.7 Lao PDR: AH11 and AH12										
		2.7.8 Malaysia: AH2 Bukit Kayuhitam - Butterworth - Kuala Lumpur - Seremban - Senai Utara										
		2.7.9 Malaysia: AH 150 Sematan - Kuching - Sibul - Miri - Kota Kinabalu - Sandakan - Lahad Datu - Tawau										
3. Enhance the use of "Intelligent Transport System" (ITS)	3.1 Formulate and Implement the "ITS Master Plan"	3.1.1 Formulate the "ITS Master Plan for ASEAN", addressing the goals, design of ITS architecture, determination of standards for ASEAN and developing implementation and monitoring mechanism										
		3.1.2 Formulate the national ITS policy and master plans for AMSs addressing the policy, standards, ITS development, operation & maintenance, and monitoring mechanism										
		3.1.3 Implement the "ITS Master Plan for ASEAN" and the national ITS policy and master plans										

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	3.2 Implement the ITS Capacity Building Programmes”	3.2.1 Identify and conduct necessary seminars and trainings on ITS										
4. Develop an effective network of ASEAN dry ports in accordance with existing ASEAN initiatives such as the AHN and SKRL	4.1 Conduct study and formulate regional network plan for the development of dry port	4.1.1 Formulate a Regional network plan										
	4.2 Finalise the list of dry port in ASEAN and identify key measures to improve the effectiveness of the agreed ASEAN dry port network	4.2.1 Identify feasible list of dry ports in ASEAN										
		4.2.2 Adopt the list of dry port in ASEAN and agree on the key measures to improve the effectiveness of the network										
		4.2.3 Implement the agreed key measures										
5. Reduce the road fatalities by 50% in ASEAN Member States by 2020 and work towards further decreasing the forecast level of road fatalities in ASEAN by 2030	5.1 Align and implement road safety initiatives in accordance with the 5 strategic pillars (Road Safety Management, Safer Roads and Mobility, Safer Vehicles, Safer Road Users & Post Crash Response) of UN's Decade of Action for Road Safety	5.1.1 Road Safety Management Pillar: Develop guidelines for improving the standard procedure for reporting road crashes based on UN standards										
		5.1.2 Road Safety Management Pillar: Adopt data collection template on road crashes in accordance to global standards										
		5.1.3 Safer Roads and Mobility Pillar: Share knowledge and experiences on the implementation of safer roads and mobility pillar										
		5.1.4 Safer Vehicles Pillar: Exchange of information, experiences and best practices with regard to the implementation of safety standard of all vehicles on the road										
		5.1.5 Safer Road Users Pillar: Sharing of knowledge and best practices on road safety, which include awareness, education and law enforcement programmes										

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
		5.1.6 Post-Crash Response Pillar: Compile best practices on post - crash responses										
	5.2 Strengthen institutional capacity for enhanced cooperation in road safety	5.2.1 Convene seminars/ workshops/ training programmes on road safety										
	5.3 Continued improvement of road safety policy and programme to further enhance the road safety in ASEAN region	5.3.1 Reduce road traffic injuries and fatalities by another 25% from 2021 to 2030										
	5.4 Harmonise safety regulation with the UN regulation based on accident analysis in ASEAN and work towards mutual recognition to improve safety	5.4.1 Conduct study on existing measures and policies regarding the road safety										
6. Develop a database of ASEAN land transport network	6.1 Develop a map of ASEAN land transport network including all relevant information on the AHN, SKRL, and dry ports	6.1.1 Publish a map of ASEAN land transport network										
7. Intensify regional cooperation in improving transport safety	7.1 Review existing statistics, policies and programmes at regional and national level	7.1.1 Gap analysis										
	7.2 Identify training needs to further improve transport safety in the region	7.2.1 Conduct training on transport safety at regional and national level										

MARITIME TRANSPORT

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
1. Realise the ASEAN Single Shipping Market through the implementation of the agreed strategies and measures	1.1 Develop and monitor Key Performance Indicator on port efficiency e.g. cargo handling and ship turnaround time	1.1.1 Monitor and, when necessary, review the KPIs to improve efficiency of ASEAN ports										
	1.2 Conduct a pilot project on the operationalisation of ASSM including in-depth cost and benefit studies	1.2.1 Complete and adopt the recommendations of the pilot project										
	1.3 Identify a mechanism to mutually recognise the certificates of competency for Near Coastal Voyages issued by ASEAN Member States	1.3.1 Adopt the mechanism to mutually recognise the certificates of competency for NCV issued by ASEAN Member States										
	1.4 Enhance the implementation of Electronic Data Interchange (EDI) in ASEAN ports	1.4.1 Support and enhance EDI in ASEAN, and study the possibility for harmonisation										
	1.5 Establish a national coordinating body, where applicable, to oversee the port and land transport infrastructure development which will work on a national master plan for port and land transport development for better port access	1.5.1 Include projects to improve accessibility of ASEAN's ports into relevant master plans developed by AMS										
	1.6 Enhance the capacity of the 47 designated ports	1.6.1 Review designated ports and implement projects to enhance their capacities										
	1.7 Improve reliability of technical standards of ASEAN Ports	1.7.1 Exchange information on technical standards through seminars										

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	1.8 Establish cruise corridors	1.8.1 Develop cruise promotion polices and institutional policies										
		1.8.2 Develop cruise tourist attractions and cruise and on-shore itinerary										
		1.8.3 Improve cruise infrastructure										
		1.8.4 Enhance quality of cruise tourism through training and education programmes and better coordination with tourism agencies										
		1.8.5 Establish data collation and common methodology of cruise										
		1.8.6 Conduct cruise marketing promotion										
2. Realise the RO-RO shipping network operation in ASEAN	2.1 Conduct dialogue among the concerned ASEAN Member States for the preparation of RO-RO routes operation	2.1.1 Improve institutional arrangements (e.g. CIQ, road administrations) to enable smooth operationalisation of the RO-RO route										
		2.1.2 Improve port infrastructure and facilities at the implementing countries to increase efficiency in serving the RO-RO routes										
	2.2 Operationalisation of RO-RO shipping network operation in ASEAN	2.2.1 Facilitate trade and tourist movements among the concerned countries										
		2.2.2 Initial run of the ASEAN-RO RO										
3. Develop an efficient and integrated inland waterway transport (IWT) network	3.1 Conduct a study and formulate a regional plan for developing IWT in ASEAN	3.1.1 Complete the Development Study for Inland Improvement project in Thailand and CLMV Countries										
	3.2 Further improve linkage among countries in the Mekong region	3.2.1 Conduct relevant researches and workshops										
	3.3 Implement the suggestions/ projects proposed by the above Development Study	3.3.1 Implement the priority infrastructure improvement projects										

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
4. Enhance navigation system and security measures in line with international standards	4.1 Strengthen human resource base for port and shipping operations including navigation safety and maritime security	4.1.1 Convene regional workshops / seminars to support implementation or ratification of IMO Conventions by ASEAN Member States										
		4.1.2 Develop Guidelines for ASEAN Member States on maritime navigational and passenger safety										
		4.1.3 Improve port security in ASEAN Member States through implementation of programmes of the Port Security Group										
	4.2 Development of VTS operators capacity	4.2.1 Establish ASEAN regional training centers for VTS operators										
		4.2.2 Conduct trainings for VTS operators										
	4.3 Improve the quality and efficiency of the Safety, Health and Environmental management for selected ports	4.3.1 Compile the Best Practices on the improvement of the quality and efficiency of the Safety, Health and Environmental management for selected ports										
		4.3.2 Improve the quality and efficiency of the Safety, Health and Environmental management for selected ports										
	5. Formulate necessary policy initiatives and recommendations to develop strategic maritime transport logistics between ASEAN and Dialogue Partners	5.1 Conduct development studies and collaborative practical researches to develop strategic maritime transport logistics between ASEAN and Dialogue Partners	5.1.1 Conduct studies with ASEAN Dialogue Partners on maritime transport logistics									
5.2 Promote the development of port technology through Port Technology Group		5.2.1 Compile guidelines to develop port technology										

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	5.3 Continue to engage Dialogue Partners and other partners to conclude maritime transport agreements	5.3.1 Implement ASEAN-China Maritime Transport Agreement										
		5.3.2 Explore the possibilities of concluding maritime transport agreements with other ASEAN Dialogue Partners										
6. Intensify regional cooperation in improving transport safety	6.1 Review existing statistics, policies and programmes at regional and national level	6.1.1 Gap analysis										
	6.2 Identify training needs to further improve transport safety in the region	6.2.1 Conduct training on transport safety at regional and national level										
7. Strengthen ASEAN SAR cooperation to ensure effective and coordinated aeronautical and maritime SAR operations in the region	7.1 Improve capacity and capability on SAR	7.1.1 Develop the ASEAN SAR Standard Operating Procedures										
		7.1.2 Familiarise ASEAN Member States with ASEAN SAR Standard Operating Procedures										
		7.1.3 Improve skill and knowledge of SAR personnel										

SUSTAINABLE TRANSPORT

SPECIFIC GOALS	ACTIONS	MILESTONES	WG INVOLVED	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
1. Intensify regional cooperation in the development of sustainable transport-related policies and strategies	1.1 Institute coordinated approach to further promote non-motorised and public transport in ASEAN cities	1.1.1 Develop “Avoid”, “Shift” and “Improve” (ASI) strategies at the regional and Member State level	LTWG											
		1.1.2 Improve road infrastructure in all ASEAN Member States that accommodate non-motorised transport modes												
	1.2 Enhance sharing and adoption of experiences, projects and knowledge related to sustainable transport	1.2.1 Publish an ASEAN database of sustainable transport initiatives	LTWG TFWG MTWG											
		1.2.2 Exchange information and capacity building through expert group meetings for safe, secure, green and user friendly transport	LTWG											
		1.2.3 Share knowledge and experiences related to financing and tax incentives for sustainable transport	LTWG TFWG MTWG											
	1.3 Initiate and support to the development and implementation of fuel economy policies and standard as well as policies towards cleaner fuels and vehicles and vessels	1.3.1 Establish a platform to discuss matters related to fuel economy for the transport sector	LTWG TFWG											
		1.3.2 Formulate a fuel economy roadmap for the transport sector in ASEAN including policy guidelines	LTWG TFWG											

SPECIFIC GOALS	ACTIONS	MILESTONES	WG INVOLVED	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
		1.3.3 Support to the development and adoption of nationally appropriate policies for cleaner fuels and vehicles	LTWG TFWG										
		1.3.4 Convene seminars to share knowledge and experiences on environmental-friendly ships including LNG fueled ships	MTWG										
		1.3.5 Conduct fact finding research/ feasibility study to encourage use of environmental - friendly ships in ASEAN	MTWG										
		1.3.6 Develop strategy to encourage use of environmental - friendly ships in ASEAN	MTWG										
		1.3.7 Implement the strategy including the start the operation of environmental-friendly ships	MTWG										
		1.3.8 Conduct information sharing of Eco-Airports in ASEAN region	ATWG										
		1.3.9 Implement the improvement projects for capacity building on Eco-Airports	ATWG										

SPECIFIC GOALS	ACTIONS	MILESTONES	WG INVOLVED	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	1.4 Develop a regional framework towards green and efficient freight and logistics in order to support ASEAN Member States in implementing respective policies	1.4.1 Develop Green Freight and Logistics database	LTWG TFWG										
		1.4.2 Develop Green Freight and Logistics Strategy	LTWG TFWG										
		1.4.3 Develop and implement Green Logistics Measures that would encourage the private sectors and individual consumers to promote Green Logistics	LTWG TFWG										
		1.4.4 Share and create the best practices summary report on Green Logistics of ASEAN Member States	LTWG TFWG MTWG										
		1.4.5 Create a Checklist Guide on Green Logistics to provide guidance and instruction toward the private sectors initiatives and operations to promote Green Logistics.	LTWG TFWG										
2. Identify and implement the key measures on sustainable transport	2.1 Ensure government support and commitment for the implementation of sustainable transport	2.1.1 Develop and adopt policies related to the identified measures for the implementation of sustainable transport	LTWG TFWG MTWG										
		2.1.2 Review the implementation of the policies and, where necessary, adopt new policies	LTWG TFWG MTWG										

SPECIFIC GOALS	ACTIONS	MILESTONES	WG INVOLVED	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	2.2 Diffuse best PPP practices for developing transport infrastructure needed for sustainable transport	2.2.1 Exchange information and capacity building for PPP through seminars	LTWG TFWG MTWG										
	2.3 Develop monitoring framework and harmonised approach for indicators on energy and GHG emissions in the transport sector	2.3.1 Carry out workshop and study on potential indicators and monitoring	LTWG TFWG MTWG										
		2.3.2 Adopt an action plan to develop and operationalize indicators (and/or) Guidelines on monitoring and indicators	LTWG TFWG MTWG										
		2.3.3 Compile data on transport indicators	LTWG TFWG MTWG										
	2.4 Implement effective measures to accommodate international standards and execute them in cooperation with international transport organisations	2.4.1 Initiate cooperation for exploring regional requirements on ballast water management (BWM) technology for coastal ships, including risk assessment, emergency measures and port biological baseline surveys	MTWG										
		2.4.2 Establish a framework of regional cooperation for the implementation of IMO BWM Convention	MTWG										

SPECIFIC GOALS	ACTIONS	MILESTONES	WG INVOLVED	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	2.5 Promote the integration of transport and land use planning	2.5.1 Convene seminars / workshops to enhance capacity on the integration of transport and land use planning	LTWG										
		2.5.2 Develop guidelines on integration of transport and land use planning	LTWG										
3. Enhance human resource activities and institutions for sustainable transport system	3.1 Strengthen sustainable transport education and training through greater networking with training centres , educational institutions and expert institutions	3.1.1 Create a sustainable transport knowledge exchange platform within ASEAN	LTWG TFWG MTWG										
		3.1.2 Carry out trainings in the field of sustainable transport for representatives of transport related agencies and ministries	LTWG TFWG MTWG										

TRANSPORT FACILITATION

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
1. Accomplish the implementation of AFAFGIT and AFAFIST	1.1 Develop and implement necessary ASEAN transport facilitation-related procedures for the operationalisation of AFAFGIT and AFAFIST	1.1.1 Develop necessary ASEAN transport facilitation-related procedures										
		1.1.2 Operationalise the AFAFGIT and AFAFIST										
	1.2 Support the operationalisation of the National Transit Transport Coordinating Committee (NTTCC) to monitor the implementation of AFAFGIT and AFAFIST	1.2.1 Improve coordination of relevant stakeholders under NTTCC in the implementation of AFAFGIT and AFAFIST										
2. Support the operationalisation of the National Transit Transport Coordinating Committee (NTTCC) to monitor the implementation of AFAFGIT in pilot project	2.1 Develop and implement necessary ASEAN transport facilitation-related procedures for the operationalisation of AFAFGIT in ACTS Pilot Testing, which include AFAFGIT Protocols 1 (Designation of TTR and Facilities), 3 (Type and Quantity of Road Vehicles), and 4 (Technical Requirements of Vehicles)	2.1.1 Fully ratify the AFAFGIT Protocol 1 and approve the Transit Transport Routes in all ASEAN Member States										
		2.1.2 Operationalise the AFAFGIT Protocol 3: operationalisation of ASEAN standardised Transit Permit										
		2.1.3 Operationalise the AFAFGIT Protocol 4: Operationalisation of cross-border goods vehicles in conformance with the agreed technical specifications										
		2.1.4 AFAFGIT Protocol 4: Comply with the standard documents (in English or in English translation) to be held on the road transport vehicle										
	2.2 Conduct time release studies to measure time required for the goods vehicles crossing the borders	2.2.1 Complete the analysis on the result of time release studies during pre- and post-Pilot test and recommendations for improvement										

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
		2.2.2 Monitoring of the reduction time for the goods vehicles crossing the borders in the roll-out and operational phases										
3. Assessment on the implementation of AFAMT	3.1 Develop an implementation framework for AFAMT by reviewing and streamlining different procedures of mode of transport, in line with the development of global multimodal transport regime, to include the legal, regulatory and procedural aspects	3.1.1 Develop the Implementation Framework for AFAMT										
		3.1.2 Develop and adopt the Action Plan and implementation mechanism for AFAMT										
		3.1.3 Streamline multi-modal logistics and supply chain is implemented through the implementation of AFAMT, leading to reduced end - to - end handling of multi - modal cargo										
4. Strengthen coordination with sub-regional initiatives in the implementation of AFAFGIT, AFAFIST and AFAMT for a more convergence cross-border transport operation in the region	4.1 Establish a mechanism between ASEAN and sub-regional initiatives to cooperate/ exchange information on the implementation of cross-border transport operations in the region	4.1.1 Establish a formal platform/cooperation mechanism and exchange of information on implementation of regional cross-border operations										
5. Implement ASEAN Framework Agreement on Facilitation of Cross-Border Transport Passengers by Road Vehicles (CBTP)	5.1 Develop Implementing Guidelines for ASEAN CBTP and operationalise the ASEAN CBTP	5.1.1 Adopt the Implementing Guidelines of ASEAN CBTP										
		5.1.2 Operationalise the ASEAN CBTP, subject to ratifications from ASEAN Member States										

SPECIFIC GOALS	ACTIONS	MILESTONES	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	5.2 Support the operationalisation of the National Transit Transport Coordinating Committee (NTTCC) to monitor the implementation of ASEAN CBTP	5.2.1 Improve coordination of relevant stakeholders under NTTCC in the implementation of ASEAN CBTP										
6. Enhance the level of skills and expertise of ASEAN transport officials in implementing effective, simplified ASEAN transport facilitation procedures	6.1 Develop Core Competencies required for ASEAN transport officials in implementing ASEAN transport facilitation-related procedures	6.1.1 Develop the List of Core Competencies										
		6.1.2 Develop Capacity Building Plan for ASEAN transport officials in implementing ASEAN transport facilitation procedures										
7. Promote logistics regional cooperation within ASEAN and with Dialogue Partners	7.1 Develop ASEAN logistics network and cooperation with Dialogue Partners	7.1.1 Develop a platform for regional cooperation on logistics within ASEAN Member States and with Dialogue Partners										
		7.1.2 Implement Policy Dialogue between ASEAN Member States and Dialogue Partners										
		7.1.3 Implement Experts Group Meeting on Logistics with Dialogue Partners										
8. Development of skills and capacity on Logistics and Supply Chain Management for Logistics Service Providers (LSPs)	8.1 Adopt and implement Regional Core Curriculum for Logistics and Supply Chain Management	8.1.1 Adopt and implement Regional Core Curriculum for Logistics and Supply Chain Management										
		8.1.2 Develop Core Competencies for Logistics Service Providers (LSPs) professionals										
		8.1.3 Develop Capacity Building Plan for LSPs										
	8.2 Implement Logistics HRD programs in collaboration with educational institutions	8.2.1 Conduct Logistics HRD trainings in ASEAN Member States in cooperation with educational institutions and Dialogue Partners										



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