

10th Regional EST Forum in Asia, 14-16 March 2017, Vientiane, Lao PDR

Intergovernmental Tenth Regional Environmentally Sustainable Transport (EST) Forum in Asia

2030 Road Map for Sustainable Transport ~Aligning with Sustainable Transport Development Goals (SDGs)~

Country Report

(Draft)

<Pakistan>

This country report was prepared by the Government of Pakistan as an input for the Tenth Regional EST Forum in Asia. The views expressed herein do not necessarily reflect the views of the United Nations.

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Country EST Report (covering from Nepal EST Forum 2015 to Lao EST Forum 2017)

a) Name of the Country: Pakistan

b) Name, Designation and Line Ministry/Agency Respondent:

Muhammad Ali Shahzada, Additional Secretary, M/o Communication

Muhammad Farooq, Joint Secretary, M/o Climate Change

c) List other Line Ministries/Agencies contributing to preparation of the Country Report: Environmental Protection Agency Pakistan

Provincial Transport Department, Government of Punjab

Provincial Transport Department, Government of KPK

Provincial Transport Department, Government of Sindh

Provincial Transport Department, Government of Balochistan

d) Reporting period: 2015-2017

With the objective of demonstrating the renewed interest and commitment of Asian countries towards realizing a promising decade (2010-2020) of sustainable actions and measures for achieving safe, secure, affordable, efficient, and people and environment-friendly transport in rapidly urbanizing Asia, the participating countries of the Fifth Regional EST Forum in Asia discussed and agreed on a goodwill and voluntary declaration - “**Bangkok Declaration for 2020 – Sustainable Transport Goals for 2010-2020.**” At the Seventh Regional EST Forum held in Bali in 2013, the participating countries adopted the “**Bali Declaration on Vision Three Zeros- Zero Congestion, Zero Pollution and Zero Accidents towards Next Generation Transport Systems in Asia**” reinforcing the implementation of Bangkok 2020 Declaration (2010-2020) with emphasis to zero tolerance towards congestion, pollution and road accidents in the transport policy, planning and development. Bali Vision Three Zeros calls for a paradigm shift in thinking on the role of motorization and mobility in realizing sustainable development in Asia. Subsequently, EST member countries adopted the “**Colombo Declaration**” for the promotion of next generation low-carbon transport solutions in Asia.

*Each member country of the Forum is kindly requested to prepare a consolidated country report (by **10/02/2017**) reflecting how EST trends and developments have taken place in the country from Nepal EST Forum 2015 to Lao PDR EST Forum 2017 around the Goals of the Bangkok 2020 Declaration as an interim assessment following the below format. You are most welcome to add extra pages or sections to share any major on-going initiatives or future plans, including mega transport projects, transport master plans, special transport corridor development, expansion of railways and*

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rail route developments, etc.

The objective of the Country Reporting is to share among international community the voluntary progress/achievements/initiatives include various challenges faced by countries in implementing each of the underlined goals of the Bangkok 2020 Declaration to realize the Bali Vision Three Zeros - Zero Congestion, Zero Pollution, and Zero Accidents towards Next Generation Transport Systems in Asia. This would help development agencies, donors, development banks in assessing the sustainable transport needs and challenges to better devise their existing as well as future capacity building programs and operations in sustainable transport areas.

Timeline for submission by 10 February 2017.

by email to: est@uncrd.or.jp

| Goal No. | Goal Description | Voluntary Progress/Achievements/Major Initiatives, including any transport master plans, development of special transport corridors, in Implementing the Bangkok 2020 Declaration from Nepal EST Forum 2015 to Lao EST Forum 2017. | |
|---|------------------|--|---|
| I. Strategies to <u>Avoid</u> unnecessary travel and reduce trip distances | | | |
| “Avoid” Strategy | 1 | Formally integrate land-use and transport planning processes and related institutional arrangements at the local, regional, and national levels | Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box) |
| | | Barriers/Challenges faced in implementation: | |
| | | <ul style="list-style-type: none"> - Limited scope in already developed cities - Strong stakeholders - Weak institutions. | |

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|----------|------------------|---|
| | | <p>Please add few specific examples of initiatives, pilot projects, major policies or programs developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p style="text-align: center;">BRT in five major populated cities with integrated land use and transport planning. Three completed, one is underway & for fifth, designing and planning completed.</p> <p style="text-align: center;">New townships are developed on the basis of land use and transport planning like Bahria town, Defence housing scheme, Capital Development Authority etc.</p> |
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p style="text-align: center;">Federal government has now taken a policy decision that every new township is required to have land use and transport planning. Provincial government is to follow suit.</p> <p style="text-align: center;">Comprehensive urban transport studies have been conducted in major cities notably Karachi, Lahore, Peshawar, Faisalabad etc.</p> |
| | | <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">High priority area</p> |

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|------------------|--|--|--|
| “Avoid” Strategy | 2 Achieve mixed-use development and medium-to-high densities along key corridors within cities through appropriate land - use policies and provide people - oriented local access, and actively promote transit-oriented development (TOD) when introducing new public transport infrastructure | Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box) | Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> - Corridors are in congested cities - Population Pressure - Public friction against Land use change which is required for mixed use development |
| | | Please add few specific examples of initiatives, pilot projects, major policies or programs developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. <p style="text-align: center;">Existing corridors are in congested areas of the cities, largely have local access, however, feeder system is being developed for enhancing access.</p> | |
| | | Examples of important actions that you plan to carry out in next year (2017~2018) <p style="text-align: center;">New China Pakistan economic corridor (CPEC) is being constructed, having mixed-use development that is through land use policies, new cities and industrial estates are being established i.e. TOD. Similarly new motorways are being constructed on the principle of mixed-use and TOD. Orange line project at Lahore –the country’s first rail based mass transit system in the construction phase. Green line at Karachi</p> | |

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| | | <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">This is priority number one of the present government, to make Sustainable motorways, express ways and corridor. China Pak economic corridor is one example. China Pakistan Economic Corridor has regional significance as well therefore it is being given the top priority.</p> <p>Karachi Lahore Motorway will provide an efficient link for north south connectivity. For Pakistan, the North –South connectivity has great importance as the sea ports of Pakistan are in south whereas most of the densely populated areas along-with cultivable land are in south</p> | |
| “Avoid” Strategy | <p>3 Institute policies, programs, and projects supporting Information and Communications Technologies (ICT), such as internet access, teleconferencing, and telecommuting, as a means to reduce unneeded travel</p> | <p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input checked="" type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p> | <p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> - Bureaucratic hurdles. - Security and safety concerns - Lack of legal regime |

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| | | <p>Please add few specific examples of initiatives, pilot projects, major policies or programs developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p style="text-align: center;">E-government project initiated 10 years ago with highly successful results. All the government departments and organization have adopted e-governance, i.e. ICT.</p> <p style="text-align: center;">Traffic synchronized signals at most of the intersections in major urban areas of Pakistan.</p> <p style="text-align: center;">Web based taxi services in some of the cities in Pakistan</p> |
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p style="text-align: center;">Moving towards paperless environment and continuous digital connectivity.</p> <p style="text-align: center;">Developing legal regime for modern day technology based transport</p> |

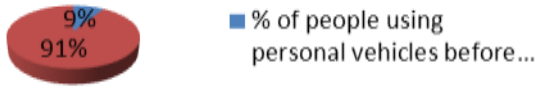

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| | | <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">Top most important area of the government.</p> <p>Through enforcement of up to date legal regime, the country is expected to ensure greater security. Moreover the Federal Revenues are also likely to increase due to these measures. It is anticipated that through these measures the Government will be able to achieve a well regulated transport system capable to address the contemporary mobility needs.</p> | |
| II. Strategies to <u>Shift</u> towards more sustainable modes | | | |
| "Shift" Strategy | 4 Require Non-Motorized Transport (NMT) components in transport master plans in all major cities and prioritize transport infrastructure investments to NMT, including wide-scale improvements to | Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box) | Barriers/Challenges faced in implementation: <ul style="list-style-type: none"> - Extreme weather - Undulating topography. - Absence or inadequacy of required infrastructure |

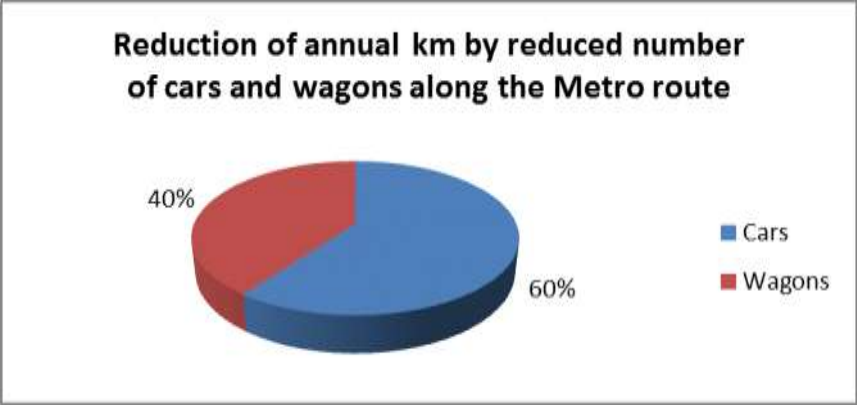
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|------------------|--|--|--|
| | pedestrian and bicycle facilities, development of facilities for intermodal connectivity, and adoption of complete street design standards, wherever feasible | <p>Please add few specific examples of initiatives, pilot projects, major policies or programs developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> - Provision of continuous walk ways along major roads and intersections for safe crossing - Cycle lane provided in Islamabad <hr/> <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <ul style="list-style-type: none"> - Adoption of policy decision for pedestrian facilities along all urban road <hr/> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">Not yet priority area.</p> | |
| "Shift" Strategy | 5 Improve public transport services including high quality and affordable services on dedicated infrastructure along major arterial corridors in the city and connect with feeder services into residential communities | <p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input checked="" type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p> | <p>Barriers/Challenges faced in implementation:</p> <ul style="list-style-type: none"> - Funds availability - Lack of Professionals. - Land acquisition in already developed urban areas |

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|---|------------------|--|----------|------------|---|-----|-------------------|----|----------|------------|-----------------|-----|-----------------|----|
| | | <p>Please add few specific examples of initiatives, pilot projects, major policies or programs developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>Three BRT completed, fourth underway & fifth one in design stage. Completely new public transport system is being given on all these corridors.</p> <p>Construction of country's First Rail based mass transit system (orange line) is underway</p> <p>Result of BRT Islamabad:</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center;">Status of commuters in Metro Buses</p>  <table border="1"> <caption>Status of commuters in Metro Buses</caption> <thead> <tr> <th>Category</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>% of people using personal vehicles before...</td> <td>91%</td> </tr> <tr> <td>Using Metro Buses</td> <td>9%</td> </tr> </tbody> </table> </div> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center;">Change in status of noise along the Metro route</p>  <table border="1"> <caption>Change in status of noise along the Metro route</caption> <thead> <tr> <th>Category</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Noise decreased</td> <td>93%</td> </tr> <tr> <td>Noise increased</td> <td>7%</td> </tr> </tbody> </table> </div> | Category | Percentage | % of people using personal vehicles before... | 91% | Using Metro Buses | 9% | Category | Percentage | Noise decreased | 93% | Noise increased | 7% |
| Category | Percentage | | | | | | | | | | | | | |
| % of people using personal vehicles before... | 91% | | | | | | | | | | | | | |
| Using Metro Buses | 9% | | | | | | | | | | | | | |
| Category | Percentage | | | | | | | | | | | | | |
| Noise decreased | 93% | | | | | | | | | | | | | |
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|----------|------------------|--|------|------------|------|-----|--------|-----|
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p style="text-align: center;">Completion of fifth BRT along-with Karachi circular railways. Provision of feeder systems to all BRT. Provision of new mass transport system to all Metropolitan cities.</p> <div style="text-align: center; border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p>Reduction of annual km by reduced number of cars and wagons along the Metro route</p>  <table border="1" style="margin: 0 auto; border-collapse: collapse;"> <thead> <tr> <th>Mode</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Cars</td> <td>60%</td> </tr> <tr> <td>Wagons</td> <td>40%</td> </tr> </tbody> </table> </div> <p>What importance does this particular EST Goal attach in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">High Priority area.</p> | Mode | Percentage | Cars | 60% | Wagons | 40% |
| Mode | Percentage | | | | | | | |
| Cars | 60% | | | | | | | |
| Wagons | 40% | | | | | | | |

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| “Shift” Strategy | <p>6 Reduce the urban transport mode share of private motorized vehicles through Transportation Demand Management (TDM) measures, including pricing measures that integrate congestion, safety, and pollution costs, aimed at gradually reducing price distortions that directly or indirectly encourage driving, motorization, and sprawl</p> | <p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p> | <p>Barriers/Challenges faced in implementation:</p> <p>The Transport demand management involves life style changes of masses</p> <p style="text-align: center;">_____</p> |
| | | <p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <ul style="list-style-type: none"> - Linking of fuel prices with international oil prices - Animal driven vehicles replaced with auto-rickshaws. - Provision of dedicated buses for institutions - Staggering of school timings | |
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Development of urban transport policy for major cities of Pakistan in line with the policies contained in national transport policy.</p> <p>Currently government of Pakistan is in the process of development of national transport policy which will continue for the year 2017-18.</p> | |

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| | | What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development? Low priority area | |
| “Shift” Strategy | 7 Achieve significant shifts to more sustainable modes of inter-city passenger and goods transport , including priority for high-quality long distance bus, inland water transport, high-speed rail over car and air passenger travel, and priority for train and barge freight over truck and air freight by building supporting | Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box) | Barriers/Challenges faced in implementation: Lack of quality buses for intercity public transport. Operation is entirely in the hands of private sector and Regulations are limited for buses and trucks Rail has limited share of both passenger and freight transport Funds availability |

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| | infrastructure such as dry inland ports | <p>Please add few specific examples of initiatives, pilot projects, major policies or programs developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p style="text-align: center;">Motorways, expressways & highways are being constructed as a way for sustainable intercity passengers & good transport.</p> <p style="text-align: center;">For freight transport, railways track & operation have been over hauled to replace trucking freight.</p> <p style="text-align: center;">Trucking Policy has been approved and the task of modernizing the existing old and unregulated fleet is being undertaken in line with the provisions of Trucking Policy</p> <p style="text-align: center;">Government of Pakistan has recently launched a project ‘ improving fuel efficiency in the trucking sector’ details of the project can be seen at the website www.pakstran.pk</p> <p style="text-align: center;">Private sector has provided state of the art</p> |
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p style="text-align: center;">Completion of Dual rail track from North to South.</p> <p style="text-align: center;">Strategy will be developed to increase the share of Rail in Passenger and Freight Transport</p> |

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| | | <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">High Priority area</p> | |
| III. Strategies to <u>Improve</u> transport practices and technologies | | | |
| "Improve" Strategy | <p>8 Diversify towards more sustainable transport fuels and technologies, including greater market penetration of options such as vehicles operating on electricity generated from renewable sources, hybrid technology, and natural gas</p> | <p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input checked="" type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p> | <p>Barriers/Challenges faced in implementation:</p> <p>availability of EURO-II and beyond compliant fuels</p> <p>Financial barriers</p> <p>Capacity of the private sector to adopt to modern fuels and technologies</p> |
| | | <p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p style="text-align: center;">Government encourages conversion of vehicle from fuel to natural gas. Around _ vehicles are running on CNG.</p> | |

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|---|---------------------------------|--|------------------|---------------------------------|--|--|------------------|---------|---------|------------------|---|---------|---------|---------|-----------|
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p style="text-align: center;">Complete conversion of vehicles to gas.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2" style="width: 25%;">Name of sector</th> <th colspan="3" style="width: 50%;">Physical Targets of MTFD Period</th> <th rowspan="2" style="width: 25%;">Achievement 2010</th> </tr> <tr> <th style="width: 16.6%;">2004-05</th> <th style="width: 16.6%;">2009-10</th> <th style="width: 16.6%;">MDG Targets 2015</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">No. of Petrol & Diesel vehicles using CNG</td> <td>380,000</td> <td>800,000</td> <td>920,000</td> <td>2,400,000</td> </tr> </tbody> </table> <p>Government is planning to prepare and execute an action plan for capacity building of private sector</p> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">High Priority area.</p> | Name of sector | Physical Targets of MTFD Period | | | Achievement 2010 | 2004-05 | 2009-10 | MDG Targets 2015 | No. of Petrol & Diesel vehicles using CNG | 380,000 | 800,000 | 920,000 | 2,400,000 |
| Name of sector | Physical Targets of MTFD Period | | | Achievement 2010 | | | | | | | | | | | |
| | 2004-05 | 2009-10 | MDG Targets 2015 | | | | | | | | | | | | |
| No. of Petrol & Diesel vehicles using CNG | 380,000 | 800,000 | 920,000 | 2,400,000 | | | | | | | | | | | |

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| “Improve” Strategy | 9 Set progressive, appropriate, and affordable standards for fuel quality, fuel efficiency, and tailpipe emissions for all vehicle types, including new and in-use vehicles | Any action had been taken so far? <input checked="" type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box) | Barriers/Challenges faced in implementation: |
| | | Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. | |
| | | Examples of important actions that you plan to carry out in next year (2017~2018) | |
| | | What importance does this particular EST Goal attach in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development? | |

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|--------------------|---|---|---|
| “Improve” Strategy | 10 Establish effective vehicle testing and compliance regimes, including formal vehicle registration systems and appropriate periodic vehicle inspection and maintenance (I/M) requirements, with particular emphasis on commercial vehicles, to | Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box) | Barriers/Challenges faced in implementation: The subject is being dealt with by the provincial governments for which the capacity has been an issue. The practice is also needs harmonization / standardization for various provinces - Funds availability. |

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| | enforce progressive emission and safety standards, resulting in older polluting commercial vehicles being gradually phased-out from the vehicle fleet, as well as testing and compliance regimes for vessels | <p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>Government of Punjab has recently a project for computerized vehicle inspection for which state of art facility has been developed. Many bus companies are using this facility for their vehicle inspection.</p> <p>Federal government has taken following policy decisions</p> <ul style="list-style-type: none"> - demonstrated and commercialized the use of digitized tune-up stations as a means to improve the efficiency of fuel in motor vehicles; - advanced policy research on transport related issues to increase fuel efficiency; - Setup a revolving loan fund to finance tune-up stations for small medium entrepreneurs. <p style="text-align: center;">Emission testing centres in Federal Capital & all the four Provincial Capitals with help of GIZ.</p> |

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|--------------------|---|---|---|
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p style="text-align: center;">To set up emission testing centres in all major cities.</p> | |
| | | <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">2nd high priority area.</p> | |
| “Improve” Strategy | <p>11 Adopt Intelligent Transportation Systems (ITS), such as electronic fare and road user charging systems, transport control centres, and real-time user information, when applicable</p> | <p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p> | <p>Barriers/Challenges faced in implementation:</p> <p style="text-align: center;">Funds availability.</p> |
| | | <p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p style="text-align: center;">Electronic fare system in all five BRT. Also introduction of electronic fare system in Railways, Electronic user charging system on all motorways, expressways & highways.</p> | |

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|--------------------|---|--|---|
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p style="text-align: center;">Completion of 10 new intercity motorways & 5 express ways with electronic user charging system.</p> | |
| | | <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">High Priority area.</p> | |
| “Improve” Strategy | <p>12 Achieve improved freight transport efficiency, including road, rail, air, and water, through policies, programmes, and projects that modernize the freight vehicle technology, implement fleet control and management systems, and</p> | <p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p> | <p>Barriers/Challenges faced in implementation:</p> <p>Old truck fleets incompatible with the modern day needs being operated by private sector.</p> <p>Lack of investment initiatives from private Sector.</p> <p>Overloading due to cut throat competition</p> |

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|-------------------------------------|--|--|
| | support better logistics and supply chain management | <p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p style="text-align: center;">Old trucking system is being replaced. Also complete renovation of railways track, engine & blocks near completion.</p> <p style="text-align: center;">Regulations are being developed and enforced regarding vehicle dimensions, and other standards.</p> |
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p style="text-align: center;">Completion of railways & truck renovation/replacement programme.</p> |
| | | <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">High Priority.</p> |
| IV. <u>Cross-cutting</u> strategies | | |

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|-----------------------|---|--|---|
| “Cross-Cutting” 13 | Adopt a zero-fatality policy with respect to road, rail, and waterway safety and implement appropriate speed control, traffic calming strategies, strict driver licensing, motor vehicle registration, insurance | Any action had been taken so far? <input checked="" type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box | Barriers/Challenges faced in implementation: Weak institutional mechanism for motor vehicle examination. Driving licensing system needs improvement. Road asset management/ maintenance is highly capital intensive |

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|----------|--|--|
| | requirements, and better post-accident care oriented to significant reductions in accidents and injuries | <p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>Road safety is included in the draft National Transport Policy in Pakistan. Road Safety is also made part of every road development project. National Steering Committee with representatives from all stakeholders at the Federal and Provincial Governments Levels has also been notified. National Road Safety Council at the Ministers Level exist and will start functioning. National Road Safety Plan for National Highways and Motorways has been prepared by Ministry of Communications with consultation of all stakeholders at the Federal and Provincial Levels. This Plan has been based on the following five pillars of the Global Plan of the United Nations Decade of Action:</p> <ul style="list-style-type: none"> i). Road Safety Management ii). Make roads and roadsides safer iii). Safer Vehicles iv). Safer Road Users (Drivers, Motorcycles, Pedestrians etc) v). Post-Crash Care |

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|-----------------|--|--|---|
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Government is planning to launch a comprehensive road safety plan in collaboration with ADB. The T.A has been approved and ADB consultant has started work</p> | |
| | | <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> | |
| “Cross-Cutting” | <p>14 Promote monitoring of the health impacts from transport emissions and noise, especially with regard to incidences of asthma, other pulmonary diseases, and heart disease in major cities, assess the economic</p> | <p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p> | <p>Barriers/Challenges faced in implementation:</p> <p style="text-align: center;">Funds shortage.</p> |

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|----------|--|--|
| | impacts of air pollution and noise, and devise mitigation strategies, especially aiding sensitive populations near high traffic concentrations | <p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p style="text-align: center;">Mitigation Plan, strategies & programme are being developed. It has been estimated that a significant emission reduction has occurred due to introduction of Metro Bus project. The net greenhouse gases reduction due to metro bus are as under:</p> <p>Net Reduction in CH₄=8582.459 Kg Annually. Net Reduction in N₂O=13892.028 Kg Annually. Net Reduction in CO₂=4486.76 Tons Annually.</p> <p>The reduction has been attributed to avoidance of using the personal vehicles by 9% of the current commuters of Metro bus and reduction of another 668 number of small sized public transport vehicles.</p> |
| | | Examples of important actions that you plan to carry out in next year (2017~2018) |

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|-----------------|---|---|---|
| | | What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development? | |
| “Cross-Cutting” | 15 Establish country-specific, progressive, health-based, cost-effective, and enforceable air quality and noise standards, also taking into account the WHO guidelines, and mandate monitoring | Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box) | Barriers/Challenges faced in implementation: <p style="text-align: center;">Funds shortage.</p> |

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|----------|--|---|---------------|--|--|------|-----------|---------------------------------------|--|------------------|---|-------|--|--|--|---|-----------------|--------------------|--|--|--------------|---------------|--|--|------|----|--|---|-------|-----------|--|--|
| | and reporting in order to reduce the occurrence of days in which pollutant levels of particulate matter, nitrogen oxides, sulphur oxides, carbon monoxide, and ground-level ozone exceed the national standards or zones where noise levels exceed the national standards, especially with regard to environments near high traffic concentrations | <p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p style="text-align: center;">National Air & Water quality standards have already been promulgates. National Environmental Quality Standard Limits for vehicles</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Parameter</th> <th colspan="2">Standards (maximum permissible limit)</th> <th>Measuring method</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Smoke</td> <td colspan="2">40% or 2 on the Ring Lemann Scale during engine acceleration mode.</td> <td>To be compared with Ring Lemann Chart at a distance of 6 meters or more.</td> </tr> <tr> <td rowspan="2">2</td> <td rowspan="2">Carbon Monoxide</td> <td colspan="2">Emission Standards</td> <td rowspan="2">Under idling conditions: Non dispersive infrared detection through gas analyzer.</td> </tr> <tr> <td>New Vehicles</td> <td>Used Vehicles</td> </tr> <tr> <td></td> <td></td> <td>4.5%</td> <td>6%</td> <td></td> </tr> <tr> <td>3</td> <td>Noise</td> <td colspan="2">85 db (A)</td> <td>Sound meter at 7.5 meters from the source.</td> </tr> </tbody> </table> | | | | S.No | Parameter | Standards (maximum permissible limit) | | Measuring method | 1 | Smoke | 40% or 2 on the Ring Lemann Scale during engine acceleration mode. | | To be compared with Ring Lemann Chart at a distance of 6 meters or more. | 2 | Carbon Monoxide | Emission Standards | | Under idling conditions: Non dispersive infrared detection through gas analyzer. | New Vehicles | Used Vehicles | | | 4.5% | 6% | | 3 | Noise | 85 db (A) | | Sound meter at 7.5 meters from the source. |
| S.No | Parameter | Standards (maximum permissible limit) | | Measuring method | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Smoke | 40% or 2 on the Ring Lemann Scale during engine acceleration mode. | | To be compared with Ring Lemann Chart at a distance of 6 meters or more. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Carbon Monoxide | Emission Standards | | Under idling conditions: Non dispersive infrared detection through gas analyzer. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | New Vehicles | Used Vehicles | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 4.5% | 6% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Noise | 85 db (A) | | Sound meter at 7.5 meters from the source. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|--------------------------|--|---|--|
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>CLEAN.</p> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">Top Priority area.</p> | |
| “Cross-Cutting” Strategy | <p>16 Implement sustainable low-carbon transport initiatives to mitigate the causes of global climate change and to fortify national energy security, and to report the inventory of all greenhouse gases emitted from the transport sector in the National Communication to the UNFCCC</p> | <p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input checked="" type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p> | <p>Barriers/Challenges faced in implementation:</p> <p style="text-align: center;">Funds availability</p> |
| | <p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p style="text-align: center;">Conversion of vehicle from fuel to CNG. Establishment of BRT, renovation of railways.</p> | | |

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|--------------------------|---|--|---|
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p style="text-align: center;">More BRT, rail based mass transit & new transport system.</p> <hr/> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">High Priority area.</p> | |
| “Cross-Cutting” Strategy | <p>17 Adopt social equity as a planning and design criteria in the development and implementation of transport initiatives, leading to improved quality, safety and security for all and especially for women, universal accessibility of streets and public transport systems for persons with disabilities and elderly, affordability of transport systems for low-income groups, and up-gradation, modernization and integration of intermediate public transport</p> | <p>Any action had been taken so far?</p> <p><input checked="" type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p> | <p>Barriers/Challenges faced in implementation:</p> <p style="text-align: center;">Lack of regulations particularly by the provinces</p> |
| | | <p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p style="text-align: center;">Special provisions for senior citizens and women in the newly developed mass transit systems</p> | |

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|-----------------|---|--|---|
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Universalization of laws relating to inclusion of all segments of society particularly the elderly, children and women.</p> | |
| | | <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> | |
| “Cross-Cutting” | <p>18 Encourage innovative financing mechanisms for sustainable transport infrastructure and operations through measures, such as parking levies, fuel pricing, time-of-day automated road user charging, and public-private</p> | <p>Any action had been taken so far?</p> <p><input checked="" type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some progress (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p> | <p>Barriers/Challenges faced in implementation:</p> |

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|-----------------|--|---|--|
| | partnerships such as land value capture, including consideration of carbon markets, wherever feasible | <p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>National Highway Authority under Ministry of Communications has developed regulations for mechanism for innovative financing in the form of BOT and BOO. Both local and international investors are looking at the opportunity as highly attractive.</p> <hr/> <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Measures will be taken for more organizations to adopt the regulations for financing of projects.</p> <hr/> <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p>Financing has great significance for implementation of projects in Pakistan.</p> | |
| "Cross-Cutting" | 19 Encourage widespread distribution of information and awareness on sustainable transport to all levels of government and to the public through outreach, promotional campaigns, timely reporting of monitored | Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box) | Barriers/Challenges faced in implementation: |

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|----------|---|---|
| | indicators, and participatory processes | <p>Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant.</p> <p>Government of Pakistan has recently launched PAKSTRAN project which has a dedicated component for raising awareness about the sustainable transport. The project was implemented in collaboration with GEF and ADB</p> |
| | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Awareness campaign on road safety will be launched.</p> <p>The awareness campaigns will be launched for all upcoming mass transit projects.</p> |
| | | <p>What importance does this particular EST Goal attach in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> |

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|--------------------------|--|---|---|
| “Cross-Cutting” Strategy | 20 Develop dedicated and funded institutions that address sustainable transport-land use policies and implementation, including research and development on environmentally-sustainable transport, and promote good governance through implementation of environmental impact assessments for major transport projects | Any action had been taken so far? <input checked="" type="checkbox"/> Not yet <input type="checkbox"/> Some progress (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box) | Barriers/Challenges faced in implementation: Human resource. Financial resources |
| | | Please add few specific examples of initiatives, pilot projects, major policies or programmes developed or under development (or) any major investment decisions. Please attach reports or include websites where relevant. Road Safety Secretariat was established in the Ministry of Communications | |
| | | Examples of important actions that you plan to carry out in next year (2017~2018) | |
| | | What importance does this particular EST Goal attach in your country’s on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development? The road safety Secretariat will be reactivated in the coming years. | |

Major policy initiatives/projects/action plan to improve rural access:

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| | | | |
|--------------------------|---|---|--|
| “Cross-Cutting” Strategy | <p>Take policy initiatives to improve rural access leading, leading to improved quality, safety and security for all and especially for women, disadvantaged groups persons with disabilities and elderly, low-income groups, access to farms, agriculture centers, education and health</p> | <p>List some of actions taken to improve rural access in your country so far? With introduction of local government system, access to rural area improved. One of the main function of local government system.</p> | <p>Barriers/Challenges faced in improving rural connectivity:</p> <p>Funds availability.</p> |
| | | <p>Please add few specific examples of initiatives, pilot projects, major policies or programs developed or under development (or) any major investment decisions to improve rural access. Please attach reports or include websites where relevant.</p> <p style="text-align: center;">Policy initiative of construction of Farms to markets road.</p> <p>Government of Punjab has taken up a major initiative for improving rural connectivity.</p> <p>The area development projects under the Narcotics Control Division (NCD) aim to eliminate the poppy cultivation and other illicit trades in the remote areas by making these areas accessible to the local administration and introducing high-value crops. The scope of these projects includes construction of the rural roads, irrigation channels, hydel and drinking water supply schemes, distribution of agricultural inputs and electrification of villages. These projects help to overcome challenges of poppy eradication and improvement in the living standard of people.</p> | |

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|--|--|--|--|
| | | | <p>Examples of important actions that you plan to carry out in next year (2017~2018)</p> <p>Setting up Provincial Finance Commission is a big boost to local government empowerment. Rural area access programme will be implemented without any hindrance by the local government.</p> |
| | | | <p>Importance of improving rural access in your country's on-going efforts in achieving the Sustainable Development Goals (SDGs) under the 2030 Agenda for Sustainable Development?</p> <p style="text-align: center;">High Priority.</p> |