

# **Eighth Regional EST Forum in Asia**

(Integrated Conference of BAQ2014 and Intergovernmental Eighth Regional EST Forum in Asia)

“Next Generation Solutions for Clean Air and Sustainable Transport -Towards a Livable Society in Asia”  
19-21 November 2014, Colombo, Sri Lanka

## **Country Report**

**(Draft)**

**<Pakistan>**

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This country report was prepared by Pakistan as an input for the Eighth 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

a) **Name of the Country:** Islamic Republic of Pakistan

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

Saif Ullah Awan Deputy Director Pak-EPA, Climate Change Division

c) **List other Line Ministries/Agencies contributing to preparation of the Country Report:** M/o Communication, Road Transport Research Centre Govt of Pakistan√

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.**” Subsequently, 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.

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.

It would be also very useful to share any major initiatives, including mega transport projects, transport master plans, special transport corridor development, expansion of railways and rail route developments, etc. which attach due importance to *Bali Vision Three Zeros – Zero Congestion, Zero Pollution, and Zero Accidents.*

**Timeline for submission by 1 October 2014**

by email to: [est@uncrd.or.jp](mailto:est@uncrd.or.jp)

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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		
<b>I. Strategies to <u>Avoid</u> unnecessary travel and reduce trip distances</b>				
“Avoid” Strategy	1	Formally integrate <b>land-use and transport planning</b> 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 checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: The existing cities have limited scope for change in land use. <ul style="list-style-type: none"> <li>• In new developments/housing societies the concept is being incorporated.</li> </ul>
			Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> <li>• Every new development project whether residential or commercial must have traffic impact study prior to execution of the project.</li> </ul>	
			Important actions you will carry out in 2014~2015	

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“Avoid” Strategy	<p>2</p> <p>Achieve <b>mixed-use development</b> and medium-to-high densities along key corridors within cities through appropriate land - use policies and provide people - oriented local access,</p> <p>and actively promote transit-oriented development (TOD) when introducing new public transport infrastructure</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (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>Challenges faced in implementation:</p> <ul style="list-style-type: none"> <li>• Existing cities have high densities so scope is limited.</li> <li>• Only one mass transit in operation in Lahore. Whereas in Islamabad BRT corridor is under constructed.</li> </ul>
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> <li>• BRT is in operation in Lahore.</li> <li>• Islamabad Metro is under construction.</li> </ul>	
		<p>Important actions you will carry out in 2014~2015</p> <ul style="list-style-type: none"> <li>• Complete Islamabad Metro</li> </ul>	
“Avoid” Strategy	<p>3</p> <p>Institute policies, programmes, and projects supporting <b>Information and Communications Technologies</b> (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 (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>Challenges faced in implementation:</p> <ul style="list-style-type: none"> <li>• Virtual University , AIOU delivering lectures using teleconferencing /internet.</li> <li>• High growth of mobile phones to curtail the trips.</li> <li>• Rapidly growing inter net access.</li> <li>• Low literacy rate.</li> </ul>

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		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> <li>• Broad band subscribers 3.439 M</li> <li>• Cell phones: 136.5 M</li> </ul>		
		Important actions you will carry out in 2014~2015 <ul style="list-style-type: none"> <li>- Recent introduction of 3G/4G and fiber optics will contribute immensely</li> </ul>		
<b>II. Strategies to <u>Shift</u> towards more sustainable modes</b>				
“Shift” Strategy	4	Require <b>Non-Motorized Transport</b> (NMT) components in transport master plans in all major cities and prioritize transport infrastructure investments to NMT, including wide-scale improvements to pedestrian and bicycle facilities, development of facilities for intermodal connectivity, and adoption of complete street design standards, wherever feasible	Any action had been taken so far? <ul style="list-style-type: none"> <li><input type="checkbox"/> Not yet</li> <li><input checked="" type="checkbox"/> Some (design – piloting)</li> <li><input type="checkbox"/> Largely in Place</li> <li><input type="checkbox"/> Fully Completed</li> </ul> (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> <li>• Extreme temp limit the scope of NMT.</li> <li>• Walkways exist in planned developments.</li> </ul>
			Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> <li>• All planned housing schemes have forth paths network.</li> </ul>	
			Important actions you will carry out in 2014~2015 <ul style="list-style-type: none"> <li>- Improvement/repair/ maintenance of roads, highways, motorway is the top priority</li> </ul>	

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“Shift” Strategy	5 Improve <b>public transport</b> 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	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> <li>• Dedicated infrastructures require huge initial capital investment.</li> <li>• Operating subsidy.</li> </ul>
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> <li>• BRT in Lahore (In operation)</li> <li>• BRT Islamabad (under construction)</li> </ul>	
		Important actions you will carry out in 2014~2015 Islamabad Metro Bus service will be operative, Karachi and Peshawar is in pipe line.	

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“Shift” Strategy	<p>6 Reduce the urban transport mode share of private motorized vehicles through <b>Transportation Demand Management</b> (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 (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>Challenges faced in implementation:</p> <ul style="list-style-type: none"> <li>• Limited availability of public Transport.</li> <li>• Parking problems.</li> </ul>
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> <li>• Staggering of working hours particularly for schools.</li> </ul>	
		<p>Important actions you will carry out in 2014~2015</p> <p>_ construction of parking in major cities is underconsideration.</p>	

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“Shift” Strategy	7 Achieve significant shifts to more sustainable modes of <b>inter-city passenger and goods transport</b> , 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 infrastructure such as dry inland ports	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> <li>• Rail infrastructure is almost obsolete.</li> <li>• Financial constraints of Pakistan Railways.</li> </ul>
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> <li>• Revival of railway has started under current political regime.</li> </ul>	
		Important actions you will carry out in 2014~2015 _ Lahore -Karachi motorway has been decided, preparatory work will be completed.	
<b>III. Strategies to <u>Improve</u> transport practices and technologies;</b> Improved Licensing procedures, digital signals and awareness campaigns through electronic media for real time information.			



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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	
“Improve” Strategy	8 Diversify towards more sustainable <b>transport fuels and technologies</b> , including greater market penetration of options such as vehicles operating on electricity generated from renewable sources, hybrid technology, and natural gas	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> <li>• Availability of CNG</li> <li>• Technology for other fuels for transport.</li> </ul>
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> <li>• Use of CNG (We are the highest in the world).</li> <li>• Hybrid vehicles are penetrating into the market.</li> </ul>	
		Important actions you will carry out in 2014~2015	
“Improve” Strategy	9 Set progressive, appropriate, and affordable <b>standards</b> 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 type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> <li>• Irarian smuggled diesel/petrol with high sulphur contents.</li> <li>• Ignorance to tuning of vehicles.</li> <li>• Age of vehicles.</li> </ul>

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		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> <li>• NEQS in place.</li> <li>• We have achieved lead free petrol.</li> </ul>	
		Important actions you will carry out in 2014~2015	
‘Improve’ Strategy	10 Establish effective vehicle testing and compliance regimes, including formal vehicle registration systems and appropriate periodic vehicle <b>inspection and maintenance</b> (I/M) requirements, with particular emphasis on commercial vehicles, to 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	Any action had been taken so far? <ul style="list-style-type: none"> <li><input type="checkbox"/> Not yet</li> <li><input checked="" type="checkbox"/> Some (design – piloting)</li> <li><input type="checkbox"/> Largely in Place</li> <li><input type="checkbox"/> Fully Completed</li> </ul> (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> <li>• Manpower shortage.</li> <li>• Equipment not existing</li> <li>• System not evolved appropriately.</li> </ul>
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> <li>• The department of Motor vehicle Examination exists under provincial Govts. of respective provinces. However due to lack of manpower &amp; infrastructure it is ineffective.</li> </ul>	

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		Important actions you will carry out in 2014~2015	
“Improve” Strategy	11 Adopt <b>Intelligent Transportation Systems</b> (ITS), such as electronic fare and road user charging systems, transport control centres, and real-time user information, when applicable	Any action had been taken so far?	Challenges faced in implementation:
		<input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	<ul style="list-style-type: none"> <li>• Very few mass transit systems.</li> <li>• Operation of public transport under private operators.</li> </ul>
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> <li>• Lahore metro collects fares electronically.</li> <li>• Real time user information is provided.</li> <li>• Islamabad metro will replace the same.</li> </ul>	
		Important actions you will carry out in 2014~2015: Electronic fare and road user charging will be expanded to private operators.	

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“Improve” Strategy	12 Achieve improved <b>freight transport</b> 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 support better logistics and supply chain management	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> <li>• Although system of irrigation canals exists however there is shortage of water so scope is limited.</li> <li>• Truck fleets do not exist so hurdle in Modernization.</li> </ul>
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> <li>• Incentives for multi axle trucks.</li> <li>• Rail is being promoted for long haul.</li> </ul>	
		Important actions you will carry out in 2014~2015 - Railway tracks and roads will be repaired	
<b>IV. <u>Cross-cutting</u> strategies</b>			

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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	
“Cross-Cutting” Strategy	13 Adopt a zero-fatality policy with respect to road, rail, and waterway <b>safety</b> and implement appropriate speed control, traffic calming strategies, strict driver licensing, motor vehicle registration, insurance requirements, and better post-accident care oriented to significant reductions in accidents and injuries	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> <li>• Motor vehicle examination system is not effective.</li> <li>• Licensing under provincial control with no uniform testing standards.</li> </ul>
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		Important actions you will carry out in 2014~2015 <ul style="list-style-type: none"> <li>• Air Quality Monitoring</li> </ul>	

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“Cross-Cutting” Strategy	14 Promote monitoring of the <b>health</b> 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 impacts of air pollution and noise, and devise mitigation strategies, especially aiding sensitive populations near high traffic concentrations	Any action had been taken so far? <input checked="" type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		Important actions you will carry out in 2014~2015	

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“Cross-Cutting”	<p>15 Establish country-specific, progressive, health-based, cost-effective, and enforceable <b>air quality and noise</b> standards, also taking into account the WHO guidelines, and mandate monitoring 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>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some (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>Challenges faced in implementation:</p> <ul style="list-style-type: none"> <li>• Old vehicle fleet.</li> <li>• Technology constraints</li> <li>• Financial constraints for purchasing monitoring equipments.</li> <li>• Trained manpower</li> </ul>
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> <li>• CLEAN (Central Laboratories for environmental Analysis and Network), Islamabad</li> </ul>	
		<p>Important actions you will carry out in 2014~2015: Establishment of Vehicle Emission Testing stations, and up gradation of Environmental laboratories. Locating the noise polluting points in cities and continuous monitoring.</p>	

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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	
“Cross-Cutting” Strategy	16 Implement sustainable low-carbon transport initiatives to mitigate the causes of <b>global climate change</b> and to fortify national <b>energy security</b> , and to report the inventory of all greenhouse gases emitted from the transport sector in the National Communication to the UNFCCC	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"><li>• Promotion of CNG in transport sector.</li></ul>	
		Important actions you will carry out in 2014~2015	
“Cross-Cutting” Strategy	17 Adopt <b>social equity</b> 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	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"><li>• Cultural Norms.</li></ul>



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	disabilities and elderly, affordability of transport systems for low-income groups, and up-gradation, modernization and integration of intermediate public transport	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> <li>• Exclusive Transport for woman in Punjab &amp; KPK.</li> <li>• Project of societies fro female university student.</li> </ul> <p>Important actions you will carry out in 2014~2015</p> <ul style="list-style-type: none"> <li>• Induction of lady police.</li> <li>• Scope and objective of the project will be expanded to other regimes also.</li> </ul>	
“Cross-Cutting” Strategy	18 Encourage innovative <b>financing</b> 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 partnerships such as land value capture, including consideration of carbon markets, wherever feasible	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some (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>Challenges faced in implementation:</p> <ul style="list-style-type: none"> <li>• Financial constraints in the country.</li> <li>• Parking area is strongly resisted and becomes political issue.</li> </ul>
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> <li>• Parking enforcement in place in Lahore and Lahore Transport Company (LTC)</li> </ul> <p>Important actions you will carry out in 2014~2015</p> <ul style="list-style-type: none"> <li>• Parking regulation will be extended to other cities.</li> </ul>	

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“Cross-Cutting” Strategy	19 Encourage widespread distribution of <b>information and awareness</b> on sustainable transport to all levels of government and to the public through outreach, promotional campaigns, timely reporting of monitored indicators, and participatory processes	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> <li>• Mass transit systems are not common.</li> </ul>
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> <li>• PAKSTRAN Project is going on which has one component for awareness.</li> </ul>	
		Important actions you will carry out in 2014~2015 <ul style="list-style-type: none"> <li>• The PAKSTRAN Project will be continued and completed in 2017.</li> </ul>	

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20	Develop dedicated and funded <b>institutions</b> that address sustainable transport-land use policies and implementation, including research and development on environmentally-sustainable transport, and promote good <b>governance</b> through implementation of environmental impact assessments for major transport projects	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> <li>• Operation of transport in private sector.</li> <li>• Private sector is highly fragmented.</li> </ul>
“Cross-Cutting” Strategy		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> <li>• LTC (Lahore Transport Company) in Lahore . <a href="http://www.ltc.gop.pk">www.ltc.gop.pk</a>, and Pakstran company <a href="http://www.pakstran.pk">www.pakstran.pk</a></li> </ul>	

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		<p>Important actions you will carry out in 2014~2015</p> <ul style="list-style-type: none"> <li>• Implementation of notified Euro-II (Pak-II) emission standards</li> <li>• Establishment of desulphurization units in refineries for provision of Euro-II fuel.</li> <li>• JICA funded Karachi Circular Railways initiative</li> <li>• Development of Metro Bus System in Lahore –Rawalpindi and plan for Multan and Peshawar.</li> <li>• Lahore/Islamabad projects</li> <li>• Pak-China Economic Corridor EIA under review currently</li> <li>• Karachi to Lahore Motorway Project Environmental Studies underway</li> </ul>