City of Almaty Sustainable Transport

UNDP-GEF Project
2011-2016
Almaty

Population: 1 mln 434,7 thousand inhabitants

Territory: 339,4 thousand square km

Motorized vehicles: more than 500,000 units

Almaty will be capital of 28th World Student Games in 2017
Transport of Almaty

Motorized vehicles registered in Almaty in 2012

- cars - 459,686 units
- trucks - 30,372 units
- buses - 11,428 units
- motorcycle - 3,596 units

Emissions from different types of vehicles

- electric transport - 1%
- cars - 77%
- buses - 22%

Length of cycle track is 2.5 km (2010)
Main problems

80% of air pollutions are transport emissions

City administration takes some measures to improve transport situation, but inhabitants still suffer from disadvantages of transport system.

There is not holistic integrated transport strategy.

The mobility management and travel demand management aren’t developed.

Rows of cars and traffic jams have captivated the city and lead to negative consequences, including air pollution.

Poor quality of public transport.
# Almaty – Public transport

<table>
<thead>
<tr>
<th>Trolleybuses:</th>
<th>Buses:</th>
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<tbody>
<tr>
<td>• 11 directions</td>
<td>• 113 directions</td>
</tr>
<tr>
<td>• 127 trolleybuses</td>
<td>• 1,144 buses</td>
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<tr>
<td>• 2 parks</td>
<td>• 21 private companies</td>
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<td></td>
<td>• municipal park</td>
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<tr>
<td>Trams:</td>
<td></td>
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<tr>
<td>• 2 directions</td>
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<tr>
<td>• 24 trams</td>
<td></td>
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<tr>
<td>• 1 tram depot</td>
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<tr>
<td>Operator – “Almatyelectrotrans”</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Metro</th>
<th>Taxi services:</th>
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</thead>
<tbody>
<tr>
<td>• 1 line</td>
<td>• 12 companies</td>
</tr>
<tr>
<td>• 3 trains</td>
<td>• 567 cars</td>
</tr>
<tr>
<td>• Operator – “Metropoliten”</td>
<td>• 30 taxi stands</td>
</tr>
</tbody>
</table>
Almaty – Public Transport

- Center Almatygortrans - the system of traffic control and public transport management based on satellite navigation was introduced to monitor and improve the quality of operators service. GPRS navigation system equipped with % of vehicles
- Sale of monthly public transport passes
- Turning area
- Software for passengers
- Equipment for bus-stops
Project objective

The objective of the CAST-project is to reduce the growth of the transport-related Greenhouse Gas (GHG) emissions in the City of Almaty, while simultaneously improving urban environmental conditions by

1) improving the management of public transportation and air quality in Almaty;

2) building capacity in Almaty to holistically plan and implement improvements in the efficiency and quality of public transport;

3) building capacity to holistically plan and implement integrated traffic management measures in Almaty City; and

4) implementing a demonstration project that raises awareness and increases knowledge of sustainable transport.
Main partners

- Akimat of Almaty
- European Bank for Reconstruction and Development (EBRD)
- USA Department of Energy
- International Finance Corporation

Finance

Total budget

- Global Environment Facility 4 886 000 USD
- EBRD 45 726 000 USD
- IFC 700 000 USD
- UNDP 50 000 USD
- Almaty Akimat 30 050 000 USD

81 412 000 USD
General approaches to GHG emission reduction

Modeling of public transport demand by

(1) Rational planning and allocation of urban infrastructure (reducing the need for moving and reducing the traveled distance)

(2) Increasing the proportion of more effective or “ecological” modes of transportation (not motorized transport or transport with lower fuel consumption or bigger loading coefficient)

(3) Increasing the efficiency of motorized vehicles (switch to transport fuel with lower emission, for example, from diesel to natural gas) and transportation system as a whole (optimization of flow, automatic control).
Anticipated results of project

1. Strengthening institutional and regulatory framework to improve public transport services and air quality management;

2. Development of integrated planning and improving the efficiency and quality of public transport in Almaty;

3. Capacity building for integrated planning and implementation of integrated traffic management in Almaty;

4. Demonstration and awareness of sustainable transport:
Challenges

Some problems can be solved on local level – some problems can be solved at national level

Partners – it’s necessary to improve the communication and cooperation with several departments of Akimat (ecology, automobile roads and parking) and link the deadlines and procedures with financial organizations

Majority of Almaty inhabitants, representatives of transport companies and Akimat are poorly informed about principles of sustainable transport

It’s necessary to change the management system – system of financing – increase public awareness
Work plan 2012-2013:

- Development of Almaty Transport Demand and holistic Transport Strategy
- Clarification of transport GHG emissions baseline and discussion of transport GHG emissions monitoring plan
- Cooperation and assistance to Akimat in developing of LRT project
- Cooperation with Akimat in developing new parking policy
- Improvement of CNG compressed gas buses services
- Launch of information campaign and raise public awareness of sustainable transport. Promotion of public transport
- Promotion of cycling movements