ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

Working Party on Transport Trends and Economics

Twentieth session
Geneva, 13-14 September 2007
Item 2 (a) of the provisional agenda

PAN-EUROPEAN TRANSPORT CORRIDOR X

EVOLUTIONS ON CORRIDOR X IN THE PERIOD 2006-2007
Pan-European Corridor X

Evolutions 2006 – 2007

Chairman: G. Patsiavos, Head of International Affairs Division, Greek Ministry of Transport and Communications

Secretary: Ch. Taxiltaris, Professor

Members: G. Mintsis, Professor
         S. Basbas, Assistant Professor
         M. Miltiadou, Transport Engineer

Thessaloniki, August 2007
Cross border cooperation along Corridor X

- Signing of the Protocol on cross-border cooperation along Pan-European Corridor X by the authorized Ministers (Corfu, 16 June 2006)
- Bilateral cooperation between Serbia and Bulgaria: New joint railway cross border station in operation since 4th December 2006 at Dimitrovgrad on Branch C
- Organization of the 4th meeting of the Working Group for the improvement of border crossings along Corridor X (Athens, 20 Dec 2006)
- Questionnaire-based survey and Data analysis (Jan – June 2007)
- Organization of the 5th meeting of the Working Group for the improvement of border crossings along Corridor X (Graz, 14 June 2007)
- Approval of the Rules of Procedure of the Working Group and the medium term Action Plan by the Steering Committee at its 9th meeting (Graz, 15 June 2007)
Progress on border crossing stations

- **Railway cross border stations**
  - **Dobova** *(X, Slovenia)*: Construction of new station (2005)
  - **Kelebia** *(Xb, Hungary)*: Improvements (2002)
  - **Dimitrovgrad** *(Xc, Serbia/Bulgaria)*: Construction of joint station (2006)
  - **Messonission** *(Xd, Greece)*: Renewal (2005)

- **Road cross border stations**
  - **Gruskovje** *(Xa, Slovenia)*: Construction of new station (2005)
  - **Bajakovo** *(X, Croatia)*: Improvements (2006)
  - **Macelj** *(Xa, Croatia)*: Reconstruction (2007)
  - **Kalotina** *(Xc, Bulgaria)*: Improvements (2005)
  - **Medzitlija** *(Xd, F.Y.R.O.M.)*: Improvements (2007)
  - **Evzoni** *(X, Greece)*: Improvements (2004)
  - **Niki** *(Xd, Greece)*: Improvements (2004)
State of play of Road Corridor X (1/3)

Progress on problematic links defined in 2001

- **Main axis**
  - Velika Kopanica – Zupanja – Lipovac (Croatia) 53,58km (2006)
  - Bic – Obrezje (Slovenia) 75,5km
    - 54,4km constructed (72%) – 150mo€ (86% of foreseen investments) secured for remaining works
  - Belgrade bypass (Serbia: Dobanovci – Bubanj Potok) 35,5km
    - 16,8km constructed (some works pending for completion)
  - Leskovac (Serbia) – Kumanovo (F.Y.R.O.M.) 127km
    - 17,6km (Leskovac – Grabovnica) constructed (2005)
    - 7,4km (Tabanovce – Kumanovo) secured WB financing (construction in 2008)
    - 102km (Grabovnica – Presevo) approved Hi.P.E.R.B. grant (100mo€) and national funds
  - Gevgelija – Axios Canyon (F.Y.R.O.M.) 44,4km
    - 11,2km (Gevgelija – Smokvica) constructed (2005)
    - 33,2km under negotiation for financing by Hi.P.E.R.B. (50mo€), IPA and EIB
State of play of Road Corridor X (2/3)

Progress on problematic links defined in 2001

- **Branch A**
  - ✔ Macelj – Krapina (Croatia) 19,4km (2007)
  - ❑ Maribor – Gruskovje (Slovenia) 38,8km
    - 3km constructed – 413mo€ (83% of foreseen investments) secured for remaining works

- **Branch B**
  - ✔ Kiskunfelegyhaza – Szeged – Rozske (Hungary) 60km (2006)
  - ❑ Horgos – Batajnica (Serbia) 176km
    - Concession signed for the construction of “Horgos – Pozega” motorway
  - ❑ Belgrade bypass (Serbia: Batajnica – Dobanovci) 10 Km
    - No progress
Branch C
- Nis – Dimitrovgrad (Serbia) 104km
  - Recent decision of Serbian government for construction with own funds
- Kalotina – Sofia (Bulgaria) 49km (except Sofia ring-road)
  - No progress

Branch D
- Veles – Prilep – Bitola (F.Y.R.O.M.) 104,6km
  - No progress
## Progress of motorway construction on Road Corridor X since 2001

<table>
<thead>
<tr>
<th>Part of Corridor X</th>
<th>Country</th>
<th>Section</th>
<th>Total Length (km)</th>
<th>Constructed Length (km)</th>
<th>Planned Completion of Construction in 2007 (km)</th>
<th>Planned Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Axis</td>
<td>Slovenia</td>
<td>Bic – Obrezje*</td>
<td>75,5</td>
<td>54,4</td>
<td>5,5</td>
<td>2008</td>
</tr>
<tr>
<td></td>
<td>Slovenia</td>
<td>Vrba – Naklo</td>
<td>20,9</td>
<td>4,3</td>
<td>2,4</td>
<td>2008</td>
</tr>
<tr>
<td></td>
<td>Croatia</td>
<td>Velika Kopanica – Lipovac</td>
<td>53,56</td>
<td>53,56</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Croatia</td>
<td>Zagreb – Bregana</td>
<td>13,0</td>
<td>13,0</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Serbia</td>
<td>Belgrade bypass**</td>
<td>45,33</td>
<td>16,8</td>
<td>-</td>
<td>After 2012</td>
</tr>
<tr>
<td></td>
<td>FYROM</td>
<td>Gradsko – D. Kapija – Gevgelija</td>
<td>75,5</td>
<td>42,5</td>
<td>-</td>
<td>2012</td>
</tr>
<tr>
<td>Branch A</td>
<td>Slovenia</td>
<td>Maribor – Gruskovje</td>
<td>38,8</td>
<td>2,4</td>
<td>0,6</td>
<td>2012</td>
</tr>
<tr>
<td></td>
<td>Croatia</td>
<td>Macelj – Krapina</td>
<td>19,4</td>
<td>19,4 (2007)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Branch B</td>
<td>Hungary</td>
<td>Kiskunfelegyhaza – Roszke</td>
<td>60,0</td>
<td>60,0</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Total</strong> 401,99</td>
<td><strong>266,36</strong></td>
<td><strong>8,5</strong></td>
<td></td>
</tr>
</tbody>
</table>

* “Problematic” sections

** No progress made on the additional 10km of Belgrade bypass on Branch B

⇒ 266,36km (66,3%) constructed in the period 2001-2006

⇒ 68,4 by the end of 2007
2. ROAD CATEGORY (ACTUAL)

- Motorway
- Highway
- Other main road
- Not applicable

**Legend**
- CAPITAL
- MAIN CITY
- START / END OF SECTION

**Network Connections:**
- 1: 4,3km constructed
- 2: 2,4km constructed
- 3: 19,4km constructed
- 4: 53,6km constructed
- 5: 54,4km constructed
- 6: 11,2km constructed
- 7: 60km constructed
- 8: 31,5km constructed

- Agreement for co-financing of Grabovnica (Leskovac) – Presevo (F.Y.R.O.M. border) motorway (96,5km) in Serbia
  - Budget: € 550 million
  - Greek contribution: € 100 million
  - Construction period: 2007 – end of 2011

- Negotiation for co-financing of Demir Kapija – Udovo – Smokvica motorway (33km) in F.Y.R.O.M.
  - Budget: € 150 million (2000 prices)
  - Greek contribution: up to € 50 million
  - Feasibility study, alternative alignment preliminary design, Environmental Impact Assessment study completed in April 2007
  - Envisaged construction period: 2008 – end of 2011
# Serbian national plan for motorways

<table>
<thead>
<tr>
<th>Section</th>
<th>Length (km)</th>
<th>Period of construction</th>
<th>Cost (m€)</th>
<th>Co-financing to the national contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grabovnica – Levosoje</td>
<td>74,5</td>
<td>2007-2011</td>
<td>467</td>
<td>€ 100milion by Hi.P.E.R.B.</td>
</tr>
<tr>
<td>Levosoje - FYROM border</td>
<td>22,1</td>
<td>2007-2009</td>
<td>57</td>
<td>-</td>
</tr>
<tr>
<td>Horgos – Novi Sad</td>
<td>108,0</td>
<td>2007-2010</td>
<td>97,2</td>
<td>Concession contract signed</td>
</tr>
<tr>
<td>Prosek – Dimitrovgrad*</td>
<td>84,0</td>
<td>2007-2011</td>
<td>450</td>
<td>-</td>
</tr>
</tbody>
</table>

* Phase I – one new carriageway construction
F.Y.R.O.M. national plan for motorways

<table>
<thead>
<tr>
<th>Section</th>
<th>Length (km)</th>
<th>Period of construction</th>
<th>Cost (mo€)</th>
<th>Financing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tabanovce – Kumanovo</td>
<td>7,4</td>
<td>2008</td>
<td>14,7</td>
<td>World Bank (secured)</td>
</tr>
</tbody>
</table>
| Demir Kapija – Udovo – Smokvica               | 33          | 2008-2011              | 150        | National budget IPA  
Hi.P.E.R.B. up to 50 mo€  
Potential for EIB, EBRD involvement |
State of play of Rail Corridor X (1/2)

Progress on problematic links defined in 2001

- Main axis
  - Zagreb (Croatia) – Belgrade (Serbia) 421km
    - Secured financing (75,7mo€) for rehabilitation and upgrade of Vinkovci – Tovarnik track
    - Master plan for the modernization of Croatian parts of Corridor X to be completed by the end of year 2007
    - Part of an approved EIB loan of 80mo€ foreseen for the reconstruction of Batanjica – Golubnici line, the overhaul of Batanjica – Nova Pazova line, the reconstruction of Nova Pazova and Stara Pazova stations and the completion of works of doubling Stara Pazova – Golubnici line
  
  - Tabanovce – Skopje – Gevgelija (F.Y.R.O.M.) 215km
    - Reconstruction of Smokvica – Gevgelija line (10km) in final stage

  - Idomeni – Thessaloniki (Greece) 76,6km
    - Line electrification and modernization completed (2006)
    - Contract for construction of new Polykastro – Idomeni line signed in December 2006
State of play of Rail Corridor X (2/2)

Progress on problematic links defined in 2001

- **Branch B**
  - Budapest – Kelebia (Hungary) 156km
    - No progress
  - Subotica – Novi Sad – Belgrade (Serbia) 149.6km
    - No progress

- **Branch C**
  - Kalotina – Sofia (Bulgaria) 57km

- **Branch D**
  - Veles – Prilep – Bitola – Kremenica (F.Y.R.O.M.) 146km
    - No progress
  - Mesonision – Florina (Greece) 19km
    - Line reconstruction and modernization completed (2006)
<table>
<thead>
<tr>
<th>No</th>
<th>Mode</th>
<th>Ranked</th>
<th>Project</th>
<th>Country</th>
<th>km</th>
<th>Cost (mo€)</th>
<th>Implementation period</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Road</td>
<td>1</td>
<td>Belgrade bypass, Sector 1-3: Dobanovci –Ostrusnica</td>
<td>Serbia</td>
<td>17</td>
<td>7,5</td>
<td>2007</td>
</tr>
<tr>
<td>1</td>
<td>Road</td>
<td>3</td>
<td>Belgrade bypass, Sector 4: Ostrusnica – Orlovaca</td>
<td>Serbia</td>
<td>8</td>
<td>24</td>
<td>2008 - 2010</td>
</tr>
<tr>
<td>1</td>
<td>Road</td>
<td>6</td>
<td>Belgrade bypass, Sector 5-6: Orlovaca-Bubanj Potok</td>
<td>Serbia</td>
<td>14</td>
<td>136</td>
<td>2008 - 2012</td>
</tr>
<tr>
<td>2</td>
<td>Road</td>
<td>13</td>
<td>Upgrading of road section Demir Kapija-Udovo-Smokvica</td>
<td>FYROM</td>
<td>33</td>
<td>150</td>
<td>2007 - 2010</td>
</tr>
<tr>
<td>13</td>
<td>Rail</td>
<td>9</td>
<td>Upgrading rail signaling and telecommunications along Corridor X</td>
<td>FYROM</td>
<td>37</td>
<td>6</td>
<td>2008 - 2012</td>
</tr>
<tr>
<td>13</td>
<td>Rail</td>
<td>10</td>
<td>Rehabilitation of the rail line Tabanovci -Gevgelija (Corridor X) Sections: Veles-Zgropolci and Zgropolci-Demir Kapija</td>
<td>FYROM</td>
<td>69</td>
<td>150</td>
<td>2007 - 2009</td>
</tr>
<tr>
<td>14</td>
<td>Rail</td>
<td>15</td>
<td>Reconstruction and modernization of the line Nis-Presevo-FYROM border</td>
<td>Serbia</td>
<td>87</td>
<td>71</td>
<td>2008 - 2011</td>
</tr>
<tr>
<td>15</td>
<td>Rail</td>
<td>17</td>
<td>Rail track overhaul Savski Marof-Zagreb section</td>
<td>Croatia</td>
<td>27</td>
<td>23,3</td>
<td>2009 - 2011</td>
</tr>
<tr>
<td>15</td>
<td>Rail</td>
<td>25</td>
<td>Remote rail control traffic system Savski Marof-Zagreb-Tovarnik</td>
<td>Croatia</td>
<td>329</td>
<td>23,4</td>
<td>2009 - 2011</td>
</tr>
</tbody>
</table>
Coordination and monitoring approach:
- Annual questionnaire based surveys in all countries of Corridor X
- Extended on-site visits for expertise and meetings with members of the road and rail authorities and organizations in each country
- Inventory of existing studies and evaluation and exploitation of their results
- Collection of reports from various sources (international and national organizations) about Corridor X

Data analysis – Development and maintenance of a Database and a relevant Geographic Information System (GIS)

Dissemination of results: Reports, papers, conferences, Website

Suggestions for the terms of references for new studies

Examination of conditions providing interoperability and promoting intermodality
Permanent activities of the Technical Secretariat of Corridor X (2/2)

- **International cooperation**
  - European Commission – DG TREN
  - Other Corridors in the area
  - UN/ECE Transport Division
  - European Investment Bank
  - Infrastructure Steering Group of the Joint office for SEE of EC and World Bank
  - Exchange of information with South East Europe Transport Observatory (SEETO) – Technical Secretariat for the implementation of the SEE Core Network
  - South East Europe High Performance Railway Network (SEECP)

- **Assistance to participating countries for the involvement of the private sector and International Financial Institutions**

- **Contribution to the optimization of border crossing operations and procedures** (Support to the Working Group for the improvement of border crossings along Corridor X)
Following activities

- For the next year basic duty the implementation of the Action Plan of the Working Group for the improvement of border crossings

- In the framework of their permanent activities the Chair and the Technical Secretariat will:
  - Contribute to the works of the four workshops of DG TREN for the extension of the major trans-European networks, and in priority to the one chaired by the Chairman of the SC of Corridor X;
  - Follow closely and participate in the process of implementation of Hi.P.E.R.B. in south Serbia and in the former Yugoslav Republic of Macedonia;
  - Continue to participate and contribute to the SEECP High Performance Railway Network cooperation.