Chapter 8. Promotion of IT Revolution

(Support of construction of high-speed information and communication network etc.)

MLIT has been promoting formation and opening of accommodation space for the formation of optical fiber for administration of facilities such as roads, rivers, ports etc., which include building a nationwide network of information boxes installed under directly administered national roads. MLIT also promotes installation of IT facilities in the field of housing, including IT use in rental housing constructed by the Urban Development Corporation.

107. Promoting spread of smart card tickets

108. (Development of Advanced Safety Vehicle (ASV) )

Promotion of ITS (Intelligent Transport Systems)
In order to construct a unified system of man, road and vehicle as one body using various kinds of IT, the following are being worked on:
(1) Promotion of spread of ETC,
(2) development effective means of providing road traffic information,
(3) use of ITS in road transportation business,
(4) promotion of ITS to support pedestrians, and
(5) introduction of ITS to each region.

In addition, MLIT is promoting technology development concerning ITS such as development and spread of Smart Cruise Systems and Advanced Safety Vehicle and introduction of electronic number plates etc.
Use of IT in disaster prevention
In order to realize advanced administration of public facilities and crisis management by using IT, MLIT is promoting building of an optical fiber network, which is the foundation of high-speed information and communication for disaster prevention-related organization. Suitable maintenance management and efficient use of each facility is promoted in connection with various kinds of information communication systems.

Realizing the electronic national land
MLIT is promoting electronization of nationwide basic geographical information in the form of GIS (geographical information system). Next-generation land management network is also being developed, connecting fiberoptics for the use of public facility administration.

Realization of electronic government
Electronic forms (electronic application) will be promoted so that citizens can go through formalities such as application and notification via the Internet. MLIT is also working on IT utilization of the procedures of bidding and contract for public works including promotion of CALS / EC (united information system for support of public works).

Development of on-line application and electronic certification systems of MLIT

<table>
<thead>
<tr>
<th>Year</th>
<th>Cases</th>
<th>Rate</th>
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</thead>
<tbody>
<tr>
<td>2001</td>
<td>244 (14%)</td>
<td></td>
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<tr>
<td>2002</td>
<td>459 (32%)</td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>100 (58%)</td>
<td></td>
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</tbody>
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This is designed to solve and ease congestion at the tollgate, which accounts for 30% of expressway traffic jams, by paying toll without stopping cars.

Driving support system
Supporting safe and comfortable driving by providing information, warning of danger lying ahead where drivers cannot see and supporting operation.

ETC (Electronic Toll Collection System)

On-board unit (OBU)
Smart card
Roadside antenna
Interactive radiocommunications

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