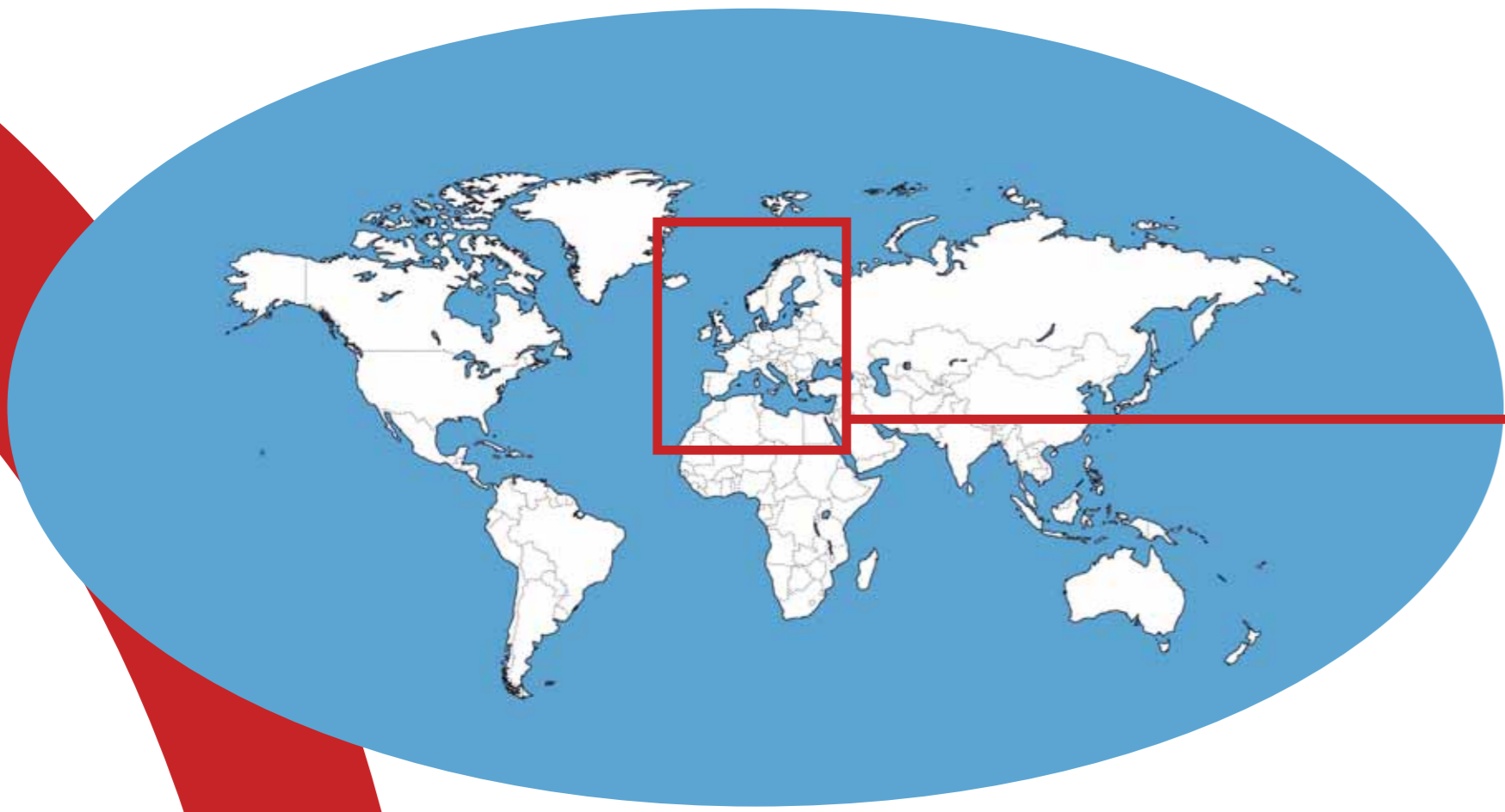


# SPAIN



## asociación técnica de carreteras

comité español de la asociación mundial de carreteras

## NC PIARC SPAIN [www.atc-piarc.com](http://www.atc-piarc.com)

The Spanish National Committee was created in 1934 and actively cooperates with the Spanish experts in the national and international Technical Committees as well as through its participation in World Road Congresses.

*El Comité Español de la AIPCR fue creado en 1934 y ha venido colaborando con la cooperación de los técnicos españoles en los Comités Técnicos Nacionales e Internacionales así como con la presencia española en los Congresos Mundiales de Carreteras.*

### THE SPANISH TRANSPORT SYSTEM

INHABITANTS	46.157.822
TOTAL AREA	504,750 km <sup>2</sup>
DENSITY	91,4 hab/km <sup>2</sup>
TOTAL ROADS	165.466 km; 52,9% veh-km
TOTAL HIGHWAYS	15.621 km
Nº VEH	30.318.457
Nº VEHÍCULOS/1.000 HAB.	685
	392.450 mill de passenger/km
	352.515 mill de ton./km
INTERIOR TRAVELER TRAFFIC	89,5% BY ROAD
INTERIOR FREIGHT TRAFFIC	83,9% BY ROAD

## RECENT ACTIVITIES

The Spanish National Committee regularly organizes Technical Seminars of considerable scope with the participation of technicians from different fields representing Road Authorities, Private Enterprises and Universities.

In addition the Spanish National Committee regularly organizes one-day Technical Seminars where highly technical topics are presented, discussed, and where the work of the National Technical Committees are presented and published.

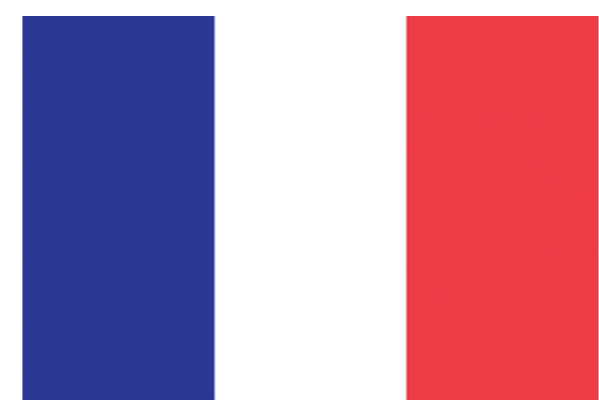
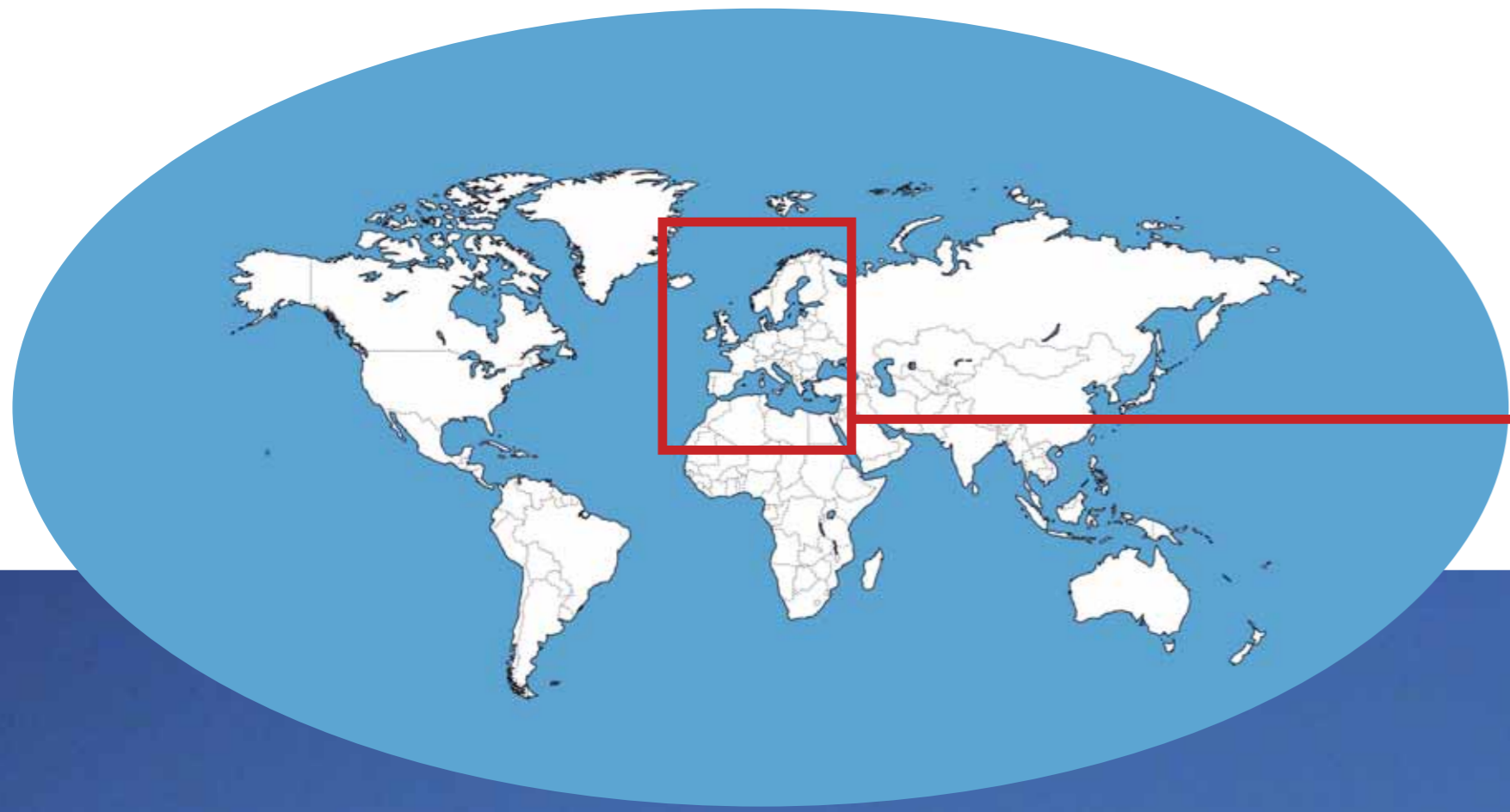
## RUTAS MAGAZINE

The technical and informative bimonthly magazine of the Spanish National Committee, RUTAS Magazine, is distributed in Spain and in Latin America. Issues are sent and distributed to different subscribers from all Spanish speaking countries.

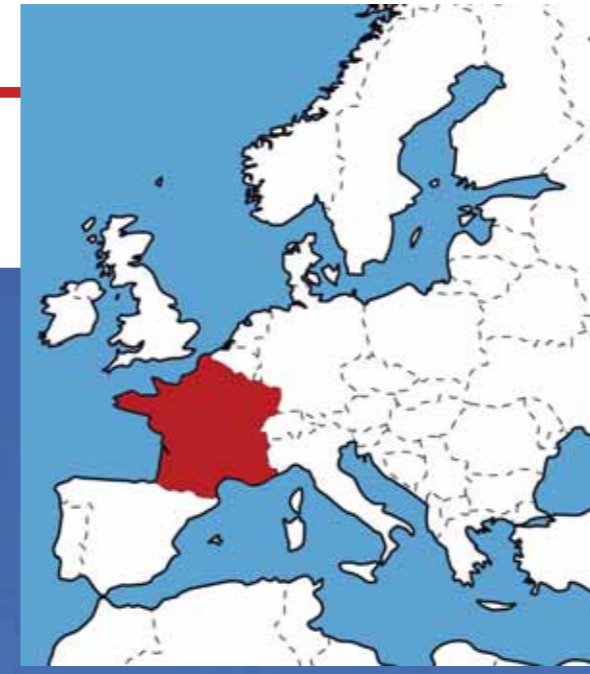
RUTAS Magazine is distributed digitally through RUTAS Magazine ONLINE: The complete download of the magazine which ensures its worldwide Distribution. This option is only available for our members.

Digital RUTAS Magazine: DATABASE CONTAINING ALL PUBLISHED ARTICLES FROM NUMBER 1 AND MUCH OF THE PUBLICATIONS OF THE Technical ROAD ASSOCIATION





# FRANCE



## COMITÉ NATIONAL FRANÇAIS

Créé il y a plus de 50 ans, le CF-AIPCR compte aujourd'hui 240 membres, individuels ou collectifs, publics ou privés.

Son conseil d'administration de 22 membres représente tous les acteurs du secteur routier en France. La présidence alterne tous les 4 ans entre secteur public et secteur privé.

Le CF-AIPCR est membre de l'IDRRIM (Institut des Routes, des Rues et des Infrastructures pour la Mobilité).

**POUR PLUS DE RENSEIGNEMENTS, N'HÉSITEZ PAS À NOUS RENDRE VISITE SUR LE PAVILLON FRANÇAIS !**

**WWW.CF-AIPCR.ORG**

## FRENCH NATIONAL COMMITTEE

Created more than 50 years ago, CF-AIPCR has 240 members, either individuals or organizations, public or private.

Its board of 22 members represents all stakeholders of the French road sector. The presidency rotates every four years between the public and private sector.

CF-AIPCR is a member of IDRRIM (Institute of Roads, Streets and Mobility Infrastructures).

**FOR MORE INFORMATION, PLEASE VISIT US ON THE FRENCH PAVILION!**

### TRANSPORT IN FRANCE

Population (including French overseas territories) as of January 1st, 2011	65 027 000
Area	543 965 km <sup>2</sup>
GDP per capita	US\$ 33 434 in 2009
Transport and related industries: total added value of transport	274 billion €, i.e. 14% of GDP in 2009
Road system	<ul style="list-style-type: none"> <li>Tolled motorways 8 629 km</li> <li>Non-tolled motorways 2 614 km</li> <li>other National Roads 9 018 km</li> <li>Department Roads 378 000 km</li> <li>Rural Roads 630 000 km</li> </ul>
Large structures (viaducts and tunnels)	60 km
Vehicles	31.400.000 individual vehicles 6.000.000 trucks
Driving license holders as of January 1 <sup>st</sup> , 2008	40 321 800
Injured people (per year); (from June 2010 to May 2011)	84631
Fatalities (per year)	4117

### LES TRANSPORTS EN FRANCE

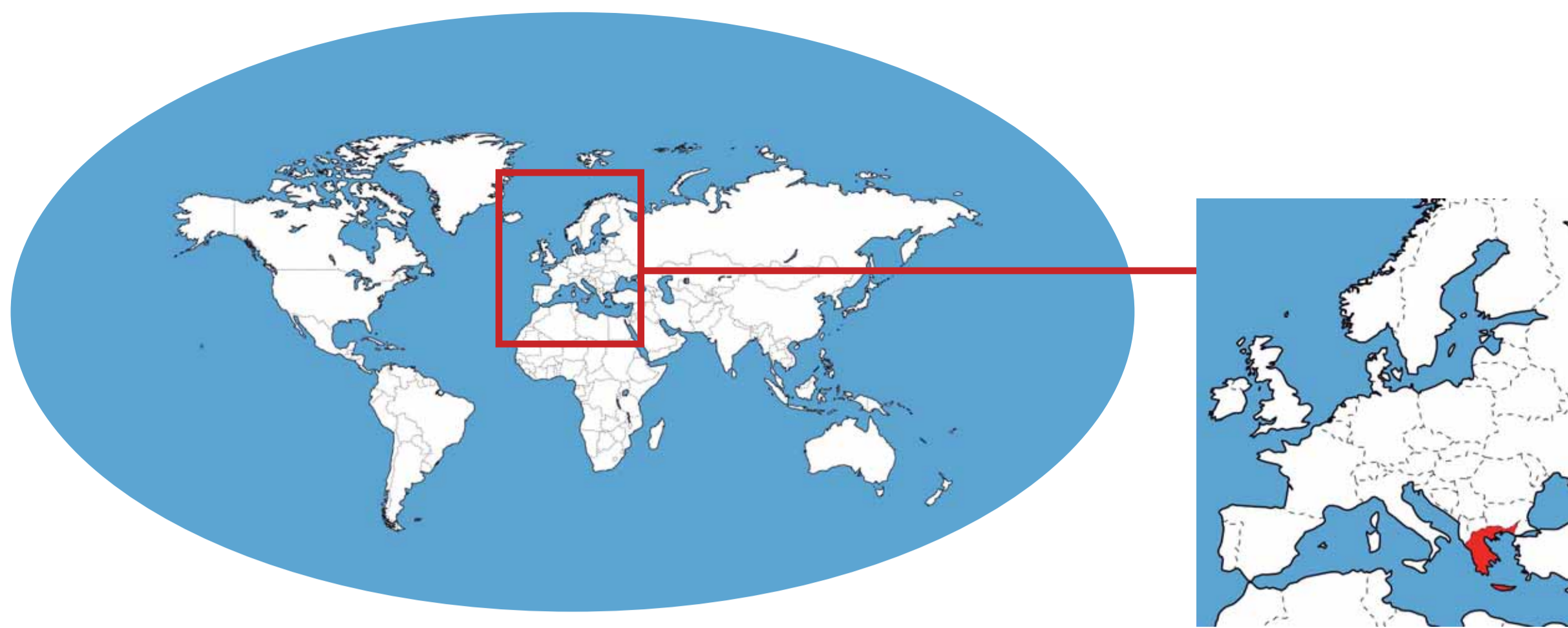
Population (métropole et territoires outre mer au 1 janvier 2011)	65 027 000
Superficie	543 965 km <sup>2</sup>
PIB par habitant	33 434 dollars en 2009
Transport et industries connexes : valeur ajoutée totale du transport	274 milliards d'euros courant soit 14 % du PIB en 2009
Kilomètres de route	<ul style="list-style-type: none"> <li>Autoroutes concédées 8 629 km</li> <li>Autoroutes non concédées 2 614 km</li> <li>Routes nationales 9 018 km</li> <li>Routes départementales 378 000 km</li> <li>Routes communales 630 000 km</li> </ul>
Ouvrages d'art (y compris les tunnels)	60 kms
Véhicules	31.400.000 véhicules particuliers 6.000.000 poids lourds
Titulaires d'un permis de conduire au 1 <sup>er</sup> janvier 2008	40 321 800
Blessés par an (sur 12 mois glissant de juin 2010 à mai 2011)	84631
Décès par année	4117

## MAIN ACTIVITIES

- Organizing and monitoring 8 mirror-committees;
- Organizing CF's "Annual Meeting" (with the participation of the French experts in the Technical Committees);
  - Technical seminars;
  - CF-AIPCR Prize (every other year);
- CF-AIPCR Newsletter (3 or 4 issues per year) and Website.

## PRINCIPALES ACTIVITÉS

- L'organisation et l'animation des 8 comités-miroirs ;
- Les « Rencontres annuelles » (avec la participation des experts français des comités techniques) ;
- Les journées d'études ;
- Le prix du CF-AIPCR (tous les 2 ans) ;
- La lettre (3 ou 4 numéros par an) et le site Web du CF-AIPCR.



# GREECE



## HELLENIC NATIONAL COMMITTEE

[www.piarc.gr/en](http://www.piarc.gr/en)

The year 1987. It has a close relation to the Hellenic Ministry of Infrastructure, Transport and Networks and to the Hellenic Road and Transport related research sector. The General Secretariat of Public Works (Hellenic Ministry of Infrastructure, Transport and Networks) provides the secretariat for the Hellenic National Committee of the World Road Association (PIARC).

### THE HELLENIC TRANSPORT SYSTEM

INHABITANTS	11 Mio
TOTAL AREA	131.957 km <sup>2</sup>
GNP PER PERSON	30.200 USD
TOTAL RAILWAYS	2.548 km
TOTAL ROADS	117.533 km
TRANS - EUROPEAN NETWORK	4.094 km
THE "RIO-ANTIRRIO" BRIDGE	2,3 km
ANNUAL TOLL REVENUE	0,5 bn Euro
VEHICLES PER INHABITANT	0,5
ANNUAL CAR - KILOMETERS	12.000 km
SERIOUSLY INJURED PER YEAR	1.743
FATALITIES PER YEAR	1.265
MODAL SPLIT CAR TRANSPORT	80,8%
MODAL SPLIT PUBLIC TRANSPORT	19,2 %

## RECENT ACTIVITIES

### Knowledge Transfer – National Working Groups

The board of the Hellenic National Committee consists of members of the administration, universities and the private sector. Most of the representatives of Greece in the World Road Association's Technical Committees are heading respective national working groups in order to facilitate the information flow between the national and international level.



### Training Courses

The General Secretariat of Public Works (G.G.D.E.), providing the secretariat for the National Committee is offering various study and training courses in the field of Road Safety Inspection, Road Safety Audit, Bridge Inspection, Road Tunnel Maintenance, Community Road Issues and Road Operation.

[www.ggde.gr](http://www.ggde.gr)

### TRANSPORT RESEARCH ARENA (Apr. 2012)



The Hellenic Ministry of Infrastructure, Transport and Networks provides the support for the organization of the Transport Research Arena (TRA) 2012 Conference in Greece.

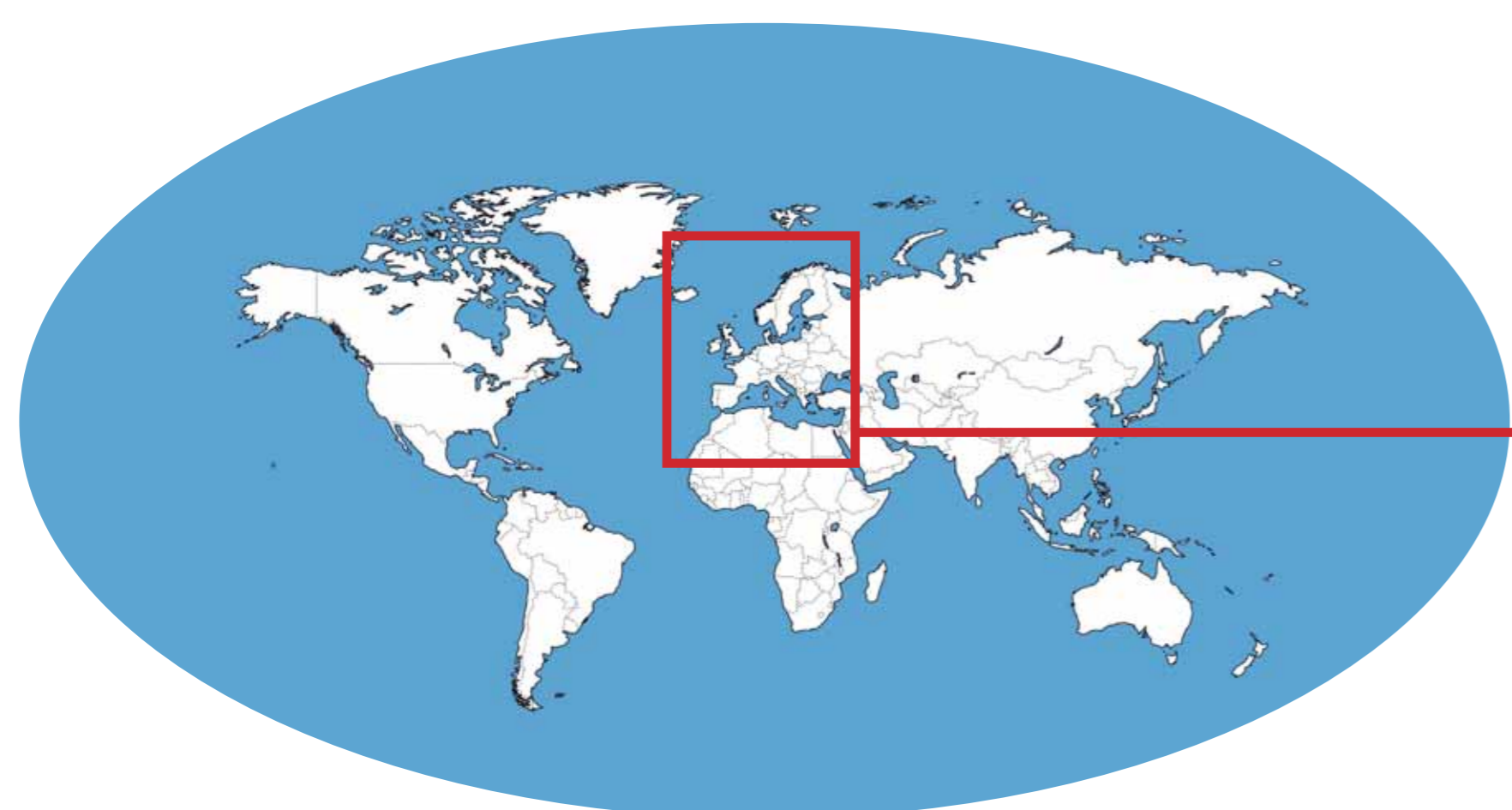
Greece will be the meeting point which will bring together once again academia and industry from Europe and the rest of the world to present research (theoretical and applied) on pressing problems of the transport sector and, in a broader sense, of everyday life and society in general.

The Transport Research Arena (TRA) Conference is an excellent initiative of its organizing stakeholders, (CEDR, ERTRAC, ERRAC, WATERBORNE and EU) for the promotion of research in the Transport Sector in Europe. Transport is one of the pillars of economic and social development and research is certainly the vehicle to improve the international competitiveness of Europe. Therefore, research in transport is both a necessity and a target per se.

In the current period of uncertainty, resulting from the international financial crisis, the successful implementation of this Conference in Greece will prove that challenges can be met even under such difficulties.

[www.traconference.eu](http://www.traconference.eu)

# HUNGARY



## HUNGARIAN NATIONAL COMMITTEE

[www.maut.hu](http://www.maut.hu)

The Hungarian National Committee was founded in Budapest in the year 2001. It has a close relation to the Hungarian Ministry of National Development and to the Hungarian road and transport related research sector, mainly to the Hungarian Road Society (MAÚT) and the Coordination Center for Transport Development. The best experts of various organizations such as highway administrative agencies, research institutes, design and consulting companies, construction enterprises and local governments are participating in the activity of the Hungarian National Committee, reflecting the wide scope of technical regulation problems and common interests. The Hungarian National Committee consists of members of the administration, universities and the private sector. Most of the Hungarian representatives in the World Road Associations Technical Committees are in general heading respective national working groups.



## RECENT ACTIVITIES

### The Hungarian National Days for Transport

A success story - every year this event is organized by the Hungarian Road Society and the National Committee of PIARC in co-operation with other professional civil organisations in various cities of the country.

### International meetings and events

We will redesign and publish our presentational brochure and other promotional material of the National Committee to make ourselves even more recognizable to the general public.

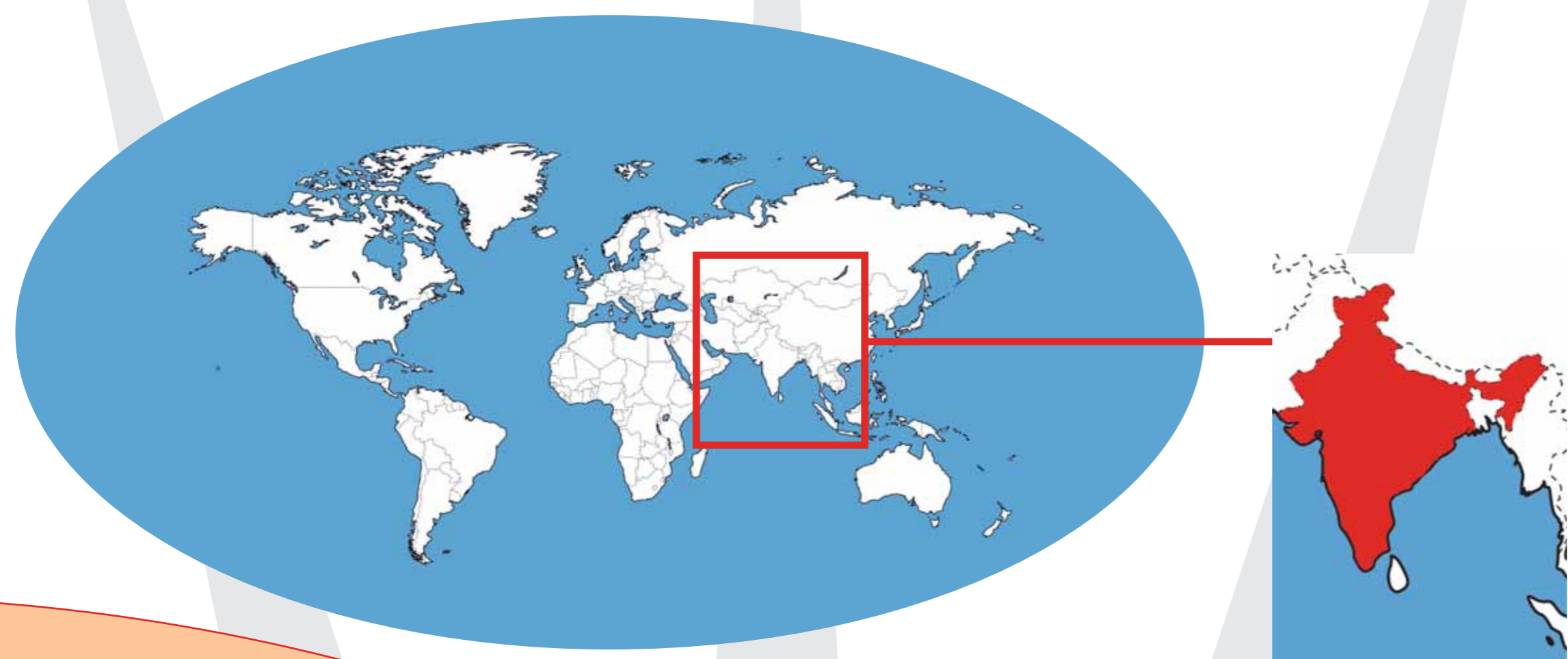
## THE HUNGARIAN ROAD TRANSPORT SYSTEM

Hungary has an extensive road system, centred in Budapest, and a highly developed highway network among new EU member states. 70 % of the road traffic is passing through the motorways and main roads of the country. The length of the country's expressway network is 1,500 km. 4 vital European transport corridors pass through Hungary, providing unparalleled access to all parts of Europe, including major European ports.



Inhabitants	9,9 million
Total area	93,011 km <sup>2</sup>
GNP per person	18,600 USD
Export-partners	Germany 25.5%, Italy 5.5%, UK 5.4%, Romania 5.3%, Slovakia 5.1%, France 4.9%, Austria 4.7%
Import-partners	Germany 26.1%, Russia 7.7%, China 6.8%, Austria 5.9%, Netherlands 4.4%, Poland 4.3%, Italy 4.2%
Member of the European Union	Since 2004
National public roads	Total 35,500 km
Local roads	Total 166,000 km
Toll highways	1500 km
Number of road bridges	7500 pcs
Persons injured in traffic accidents	20000
Fatalities per year	750

# INDIA



## IRC - INDIAN NATIONAL COMMITTEE

[www.irc.org.in](http://www.irc.org.in)

The Indian Roads Congress (IRC) was set up in December, 1934 on the recommendations of the Indian Road Development Committee best known as Jayakar Committee set up by the Govt. of India with the objective of Road Development in India. As the activities of the IRC expanded, it was formally registered as a Society in 1937 and has fulfilled the role of National Committee.

The objectives of the IRC are:

- to promote and encourage the science and practice of building, operation and maintenance of roads.
- to provide a channel for the expression of collective opinion of its members regarding roads.
- to promote the use of standard specifications and to propose specifications.
- to advise regarding education, experiment and research connected with roads.
- to hold periodical meetings to discuss technical questions regarding roads and thus disseminate technical knowledge of experiences amongst highway engineers
- to suggest legislation for the development, improvement and protections of roads.
- to suggest improved methods of administration, planning, design, construction, operation, use and maintenance of roads.
- to establish, furnish and maintain libraries and museums for furthering the science of road making.
- to publish, or arrange for the publication of proceedings, journals and periodicals.

POPULATION	1 210 193 422 (2011)
SUPERFICIE - TOTAL AREA	3 287 263 km <sup>2</sup>
PIB/HABITANT - GDP PER CAPITA	3,105 USD (2009)
<b>ROAD NETWORK (IN KM)</b>	
ROAD NETWORK	3.3 million
EXPRESSWAYS	200
NATIONAL HIGHWAYS	70934
OTHER PWD ROADS	863241
RURAL ROADS	2577396
URBAN ROADS	574516

Modal Shift

- About 65% of freight and 80% passenger traffic is carried by the roads.
- National Highways constitute only about 2% of the road network but carry about 40% of the total road traffic.
- Number of vehicles has been growing at an average pace of 10.16% per annum over the last five years.

Source: IRC - \*Source: Wikipedia

### SEMINARS.

In order to pool latest knowledge on various topics relevant to planning, design, construction, operation and maintenance of roads and bridges in the country and to disseminate knowledge to the highway professionals, the IRC organizes national and international seminars as *Reducing the Carbon Footprint in Road Construction* (February 2011) - *Roads in High Precipitation Areas* (February 2010) - *Public Private Partnership in Highway Sector* (August 2009).

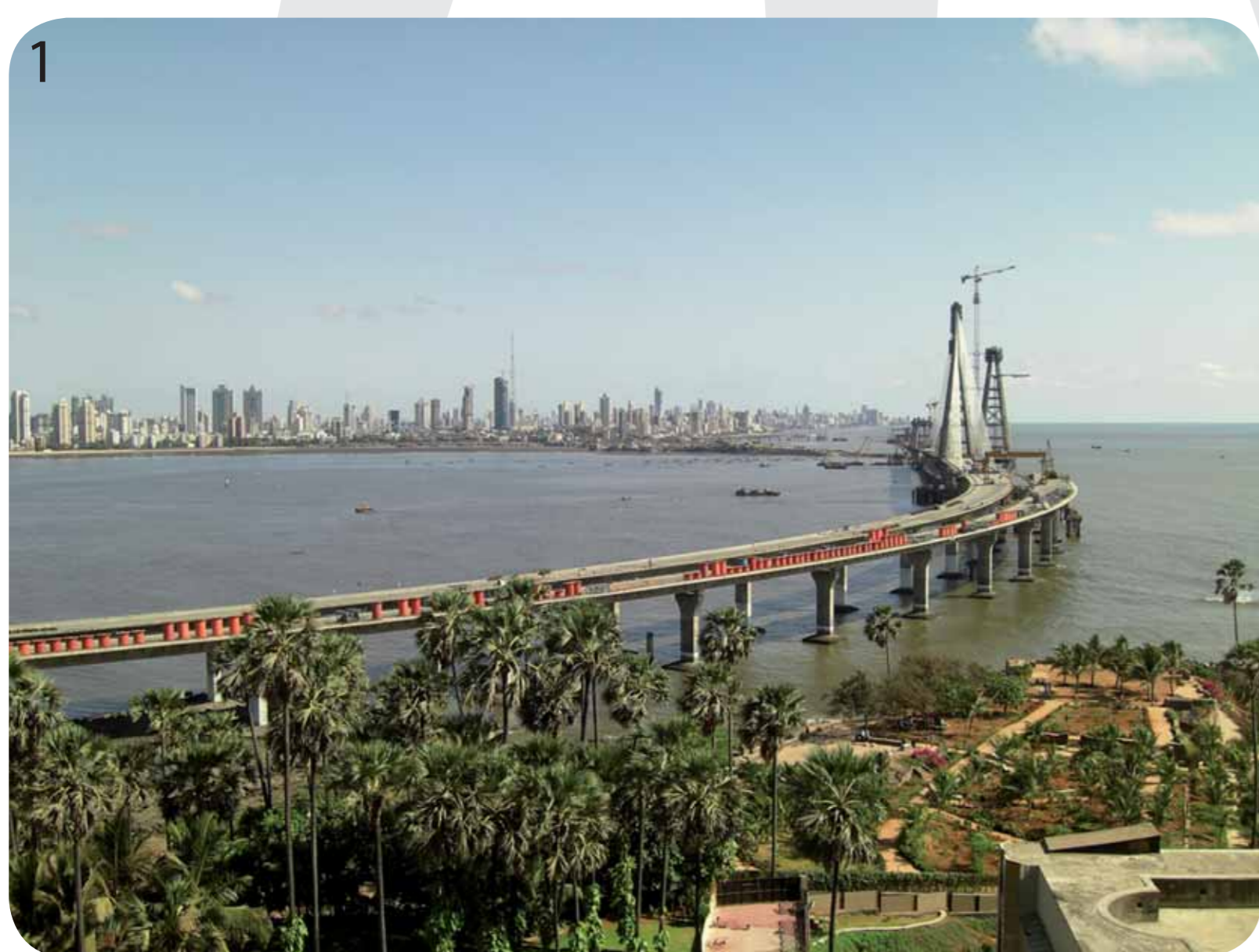
### WORKSHOPS.

Regional Workshops are organized on various topics in different regions of the Country for the benefits of highway engineers of that particular region. These Workshops are hosted by various State Governments on the request of the IRC. *Promoting Usage of New Materials/Technologies/Equipment* (October 2010) - *Quality Assurance and Quality Control in Road & Bridge Projects* (April 2010).

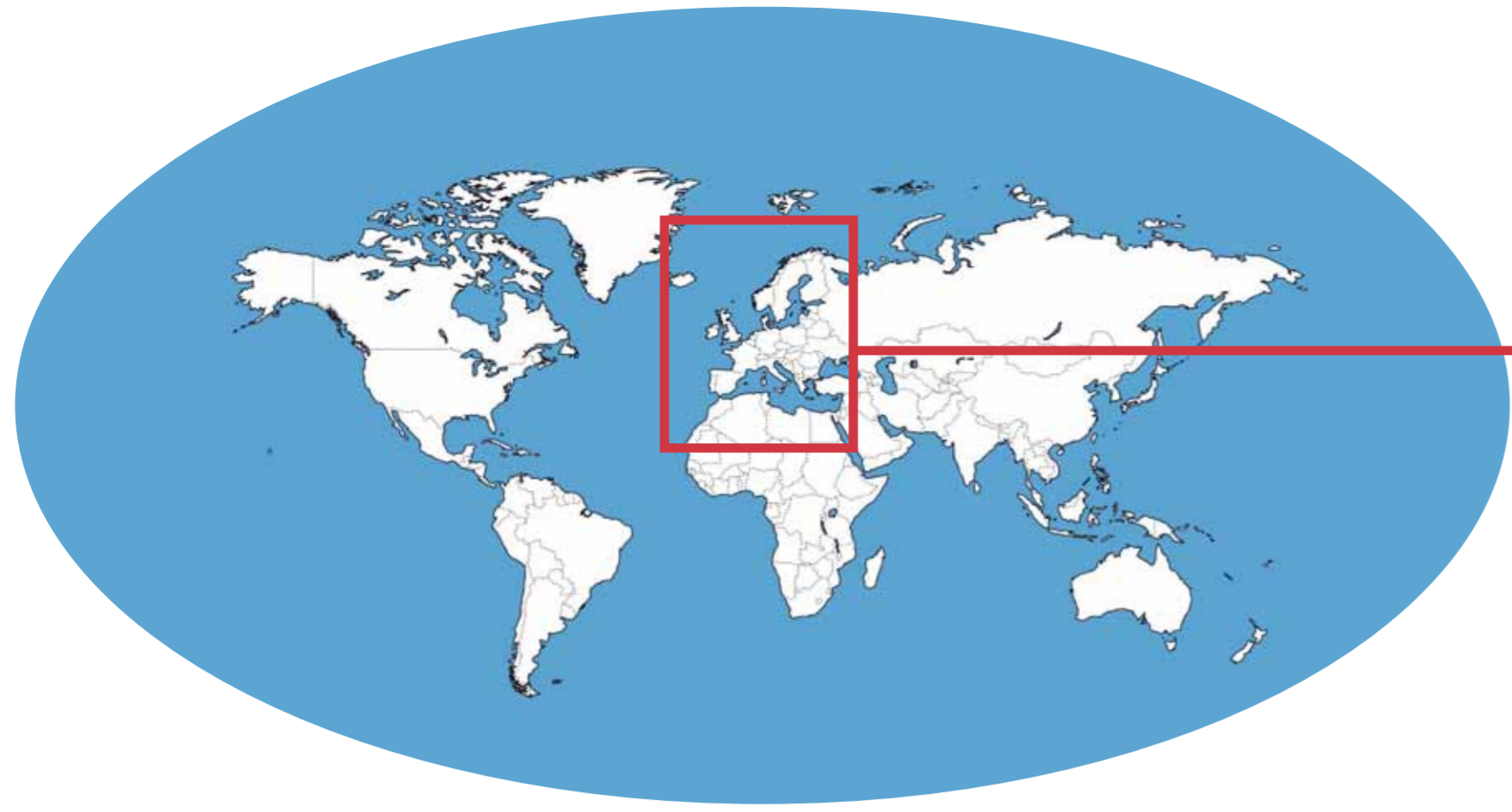
### PUBLICATION OF THE IRC JOURNAL.

Some available articles regard: *Shock Transmission units for earthquake load distribution - Development of pavement management system (pms) for national highways ... - Capacity Estimation Procedure for Two-Lane Roads Under Mixed Traffic Conditions.*

## ACTIVITIES



Picture 1: Sealink Bridge (Mumbai)  
Picture 2: Cycle-rickshaws  
Picture 3: Golden quadrilateral-NHDP



# ITALY



## ITALIAN NATIONAL COMMITTEE (INC)

[www.aipcr.it](http://www.aipcr.it)



1913: the Italian Government joins PIARC

1945: creation of the Italian National Committee (INC)

At a national level, INC coordinates the activity of the Association by means of its Technical Committees that carry out their study and research activity in strict cooperation with the General Secretariat in Paris.

INC organizes Seminars, Workshops, Congresses and monitors the publications edition and dissemination. It undertakes specific studies that are particularly relevant for the competent Ministry, Anas, Regional Authorities, Collective Members.

### THE ITALIAN TRANSPORT SYSTEM

INHABITANTS	60,5 millions
TOTAL AREA	301.336 km <sup>2</sup>
NATIONAL AND REGIONAL ROADS	183.704 Km
TOTAL HIGHWAYS	5.724 Km
ANNUAL TOLL REVENUE	5.811 million € (Year 2009)
NUMBER OF VEHICLES	52.600 millions (0,8 per inhab.)
DRIVING LICENCES	35.600 millions
FREIGHT ROAD TRANSPORT	1.500 million tons (year 2007)
FATALITIES IN 2009	4.237
INJURED IN 2009 (- 40% from 2000)	307.258

## RECENT ACTIVITIES

### XXVI CONVEGNO NAZIONALE STRADALE AIPCR



Held every four years, the most recent Road National Congress in Rome, saw the participation of about 280 professionals.

In preparation of the World Road Congress, it therefore focused on

the same Strategic Themes.

For such event INC published 11 technical reports drafted by the Committees as well as a volume collecting numerous papers concerning the four Strategic Themes.

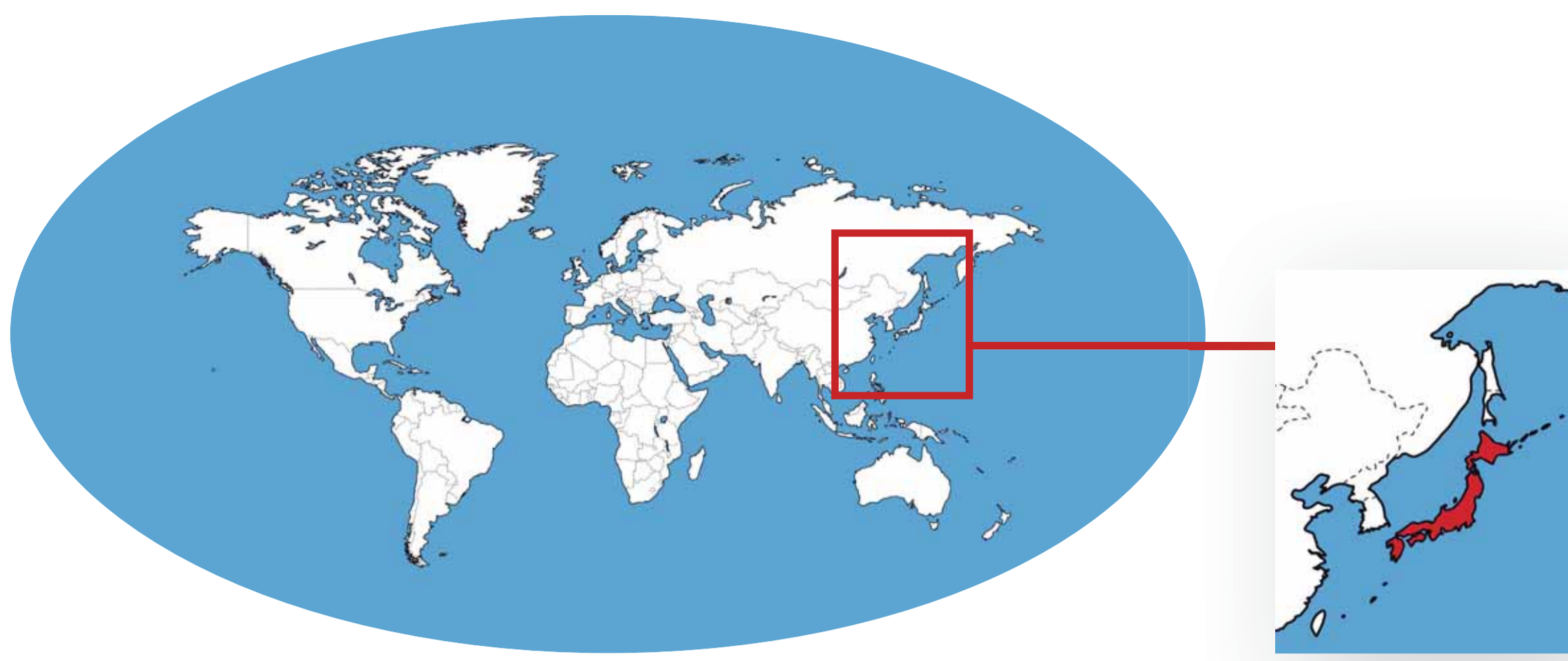
### WORKSHOP SINA/PIARC Managing operational risk in road operation, Rome, May 2010

The workshop focused on a correct understanding and a suitable management of risks related to the road operation, having a key importance both for the safety of the transit and for the safeguard of infrastructures and the environment.

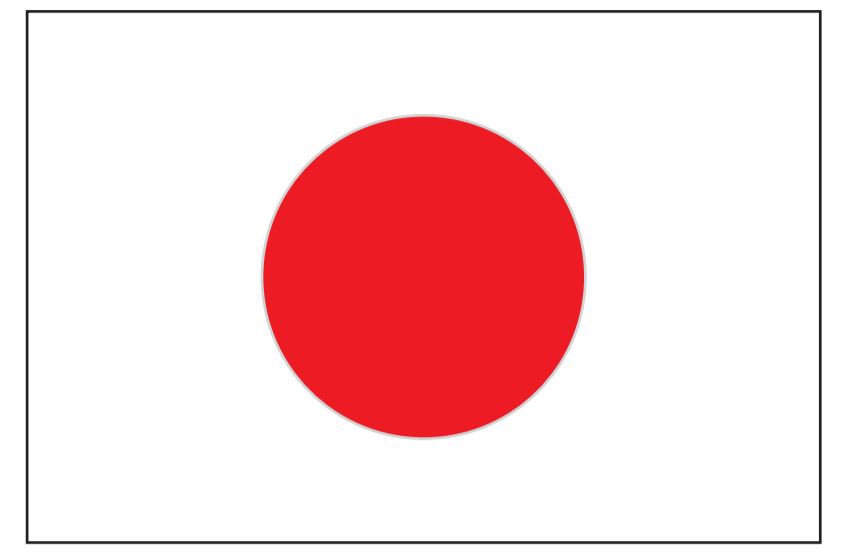
The assessment of the road related risks demand Authorities, road Administrations and road operators to make choices and investments assessing facts in a scientific and realistic way.

### WORKSHOP ANAS/PIARC Guidelines for planning safety in road tunnels according to the rules in force Rome, December 2010

ANAS drafted the "Guidelines for planning safety in road tunnels according to the rules in force" and "Road Tunnels and Functional Geometric Standards" in order to uniform safety planning in road tunnels to the technical orientations of the EU Directive 54-2004/EC.



# JAPAN



**JAPANESE NATIONAL COMMITTEE**  
<http://www.road.or.jp/>

37 Individual members - 32 Collective members -  
 1 Regional Authority

## ORGANIZATION AND STRUCTURE

Japan Road Association (JRA) provides the secretariat for the Japanese National Committee of PIARC

## MAJOR SEMINARS AND WORKSHOPS ORGANIZED BY NC

- PIARC national Seminar was held in Tokyo on 21 May 2010. (15TC gave presentations in order to share latest information.)
- International Workshop on PPP was held in Osaka on 13-14 Oct.2009.

## NATIONAL NEWSLETTER OR MAGAZINE OF NCS

"Doro" is published monthly and circulated among members of the Japan Road Association. On average 10,500 copies are published each month.

## OUR CONTRIBUTION TO TC ACTIVITIES

35 experts from Japan are represented in 15 Technical Committees out of 17 Technical Committees and one Commission.

BASIC DATA FOR JAPAN	
LAND AREA	377,947 km <sup>2</sup> (At the end of October 1, 2009)
POPULATION	127,767,994 (FY2009)
GROSS DOMESTIC PRODUCT	Approximately 474 trillion yen (FY2009)
DATA ON ROAD TRAFFIC	
LENGTH OF ORDINARY HIGHWAYS	54,789.7km (At the end of April 1, 2009)
PERCENTAGE OF PAVED NATIONAL HIGHWAY	91.2% (At the end of April 1, 2009)
NUMBER OF REGISTERED VEHICLES *Excluding compact automobiles for specific use, trailers and two-wheeled vehicles	75,143,677 vehicles (At the end of March 31, 2009)
ARTERIAL HIGH-STANDARD HIGHWAYS	Total length 14 000 km
	Length of sections in service at the end of FY2010 9 855 km



## RECENT ACTIVITIES

### International Workshop on Public-Private Partnerships in the Road Sector

The Japan Road Association and PIARC Technical Committee A.2 on "Financing, Managing and Contracting of Road System Investment" held a Workshop on Public-Private Partnerships in the Road Sector (IWPPP) in Osaka, Japan, 13-14 October 2009.

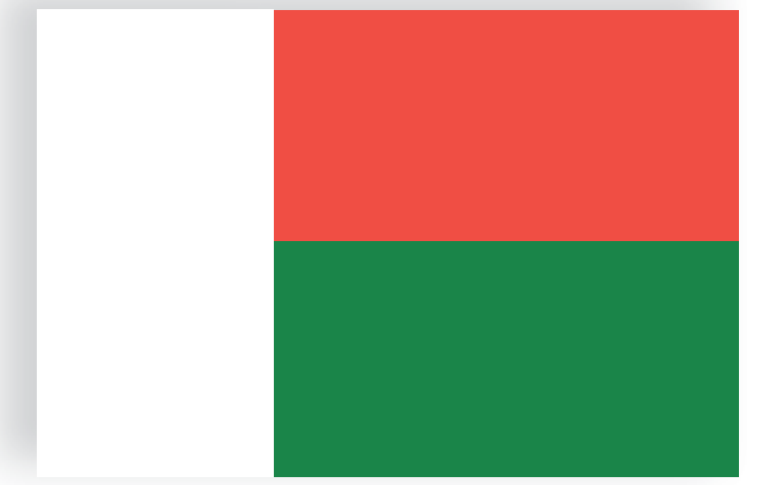
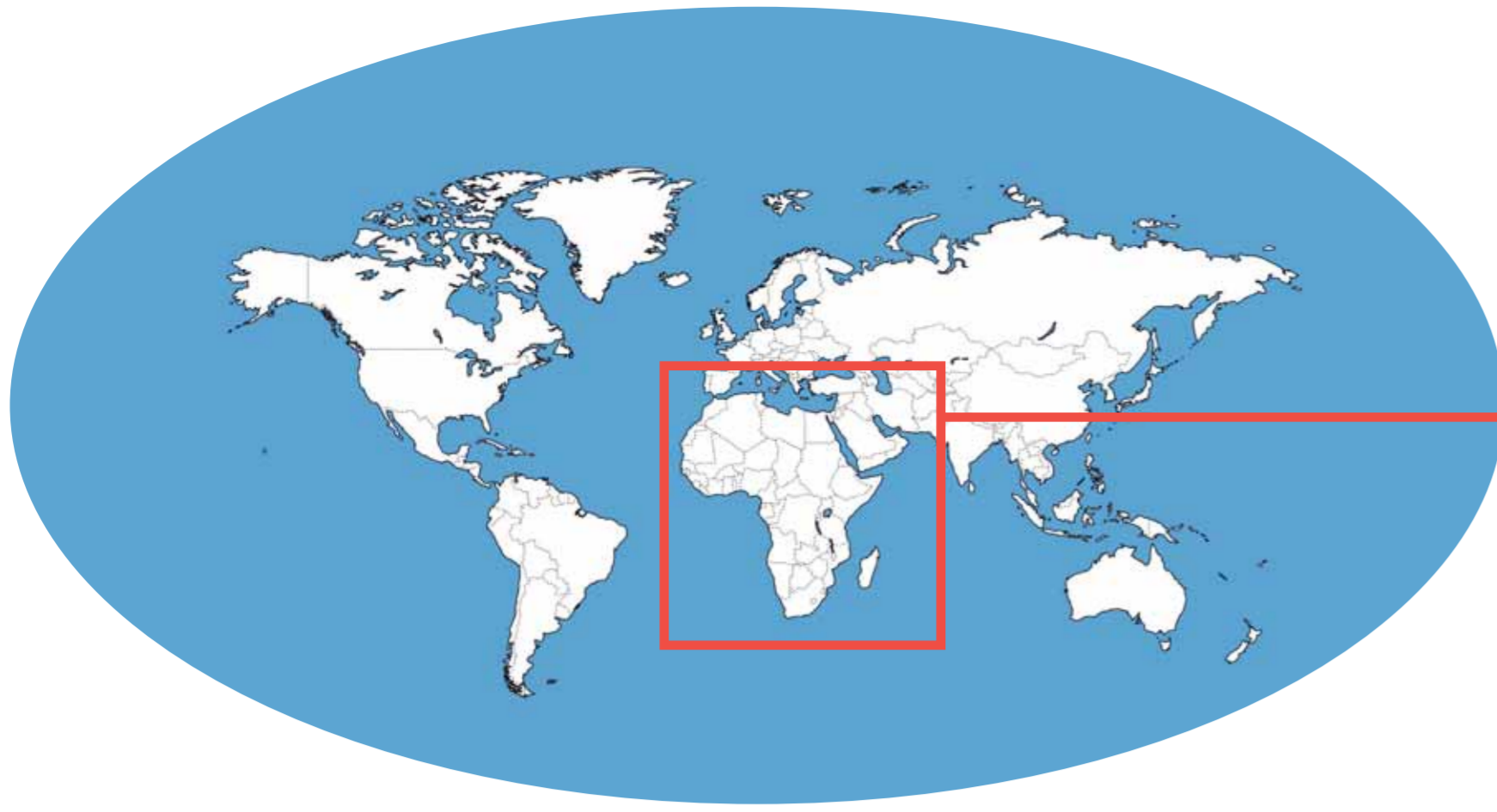
The Japan Road Association organized this workshop in partnership with Hanshin Expressway Co., Ltd. and in co-operation with REAAA (the Road Engineering Association of Asia and Australasia).

In this workshop, international information on the current experiences and future

applications of public-private partnership in the road sector has been exchanged and disseminated. The workshop was aimed at not only PPP professionals but also wider public who has interest in the application of private sector participation and partnership with public sector to deliver better road services for sustainable development.

About 200 participants gathered from 23 countries including developing countries to developed countries, and 19 presentations were introduced by 13 countries of Europe, Africa, Asia, Oceania and America. This workshop was concluded with great success.

# MADAGASCAR



**COMITÉ MALGACHE DE L'AIPCR**  
**Intpb@moov.mg**



Le Comité National Malgache de l'Association Mondiale de la Route (CMGAIPCR) a été créé en 2001 avec divers représentants (Administration – Privés – Forces de l'ordre - Syndicat des BTP – Université)

## DONNÉES GÉNÉRALES

SUPERFICIE	587 040 km <sup>2</sup>
POPULATION	21 281 844 millions
DENSITÉ	36,25 hab./km <sup>2</sup>
RÉSEAU ROUTIER	environ 49 250 km dont 1 724 km revêtues (3,5%)

Source Wikipedia

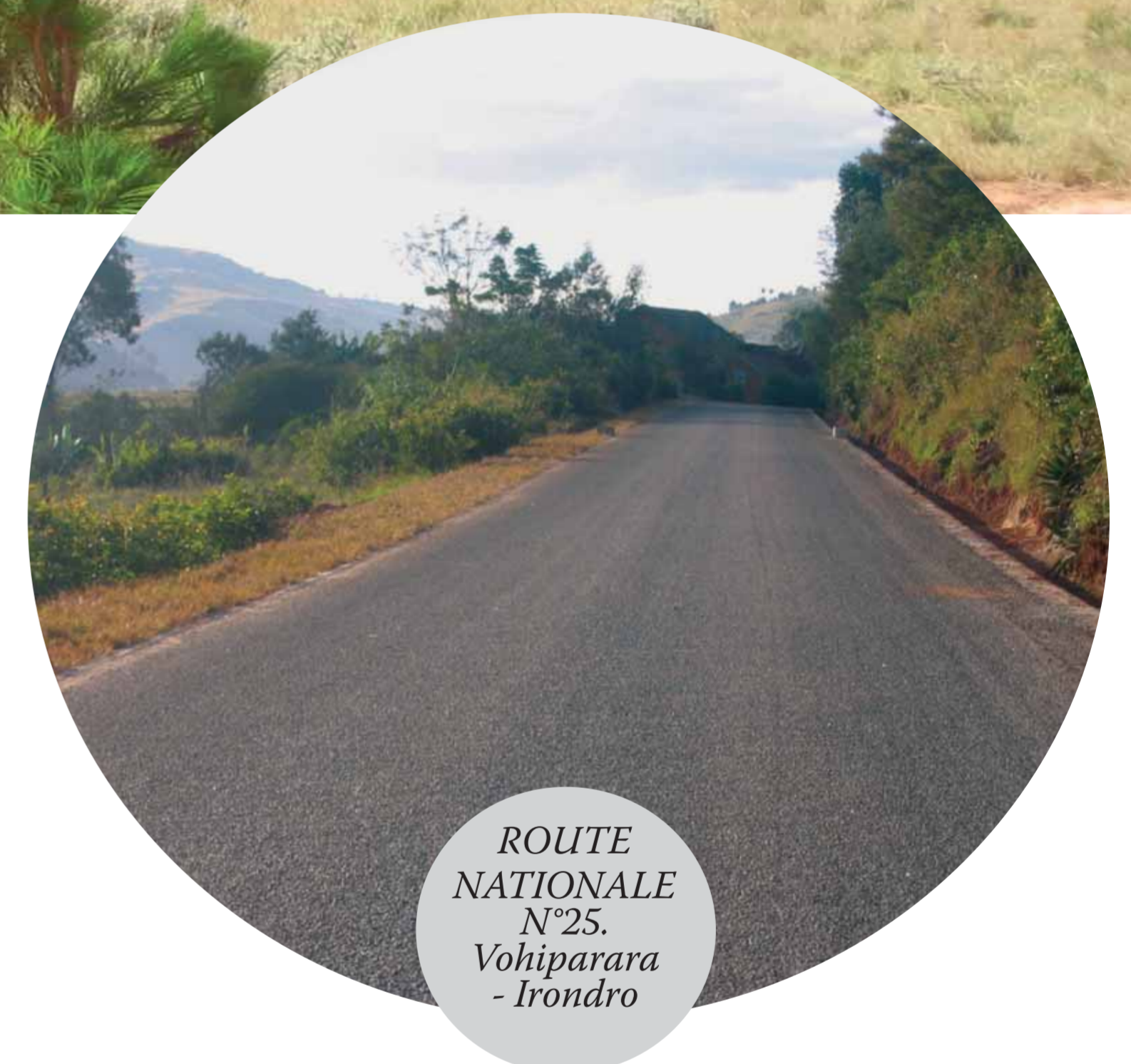


Revêtement traité en enrobé à froid 0/14 avec huile lourde de Tsimiroro

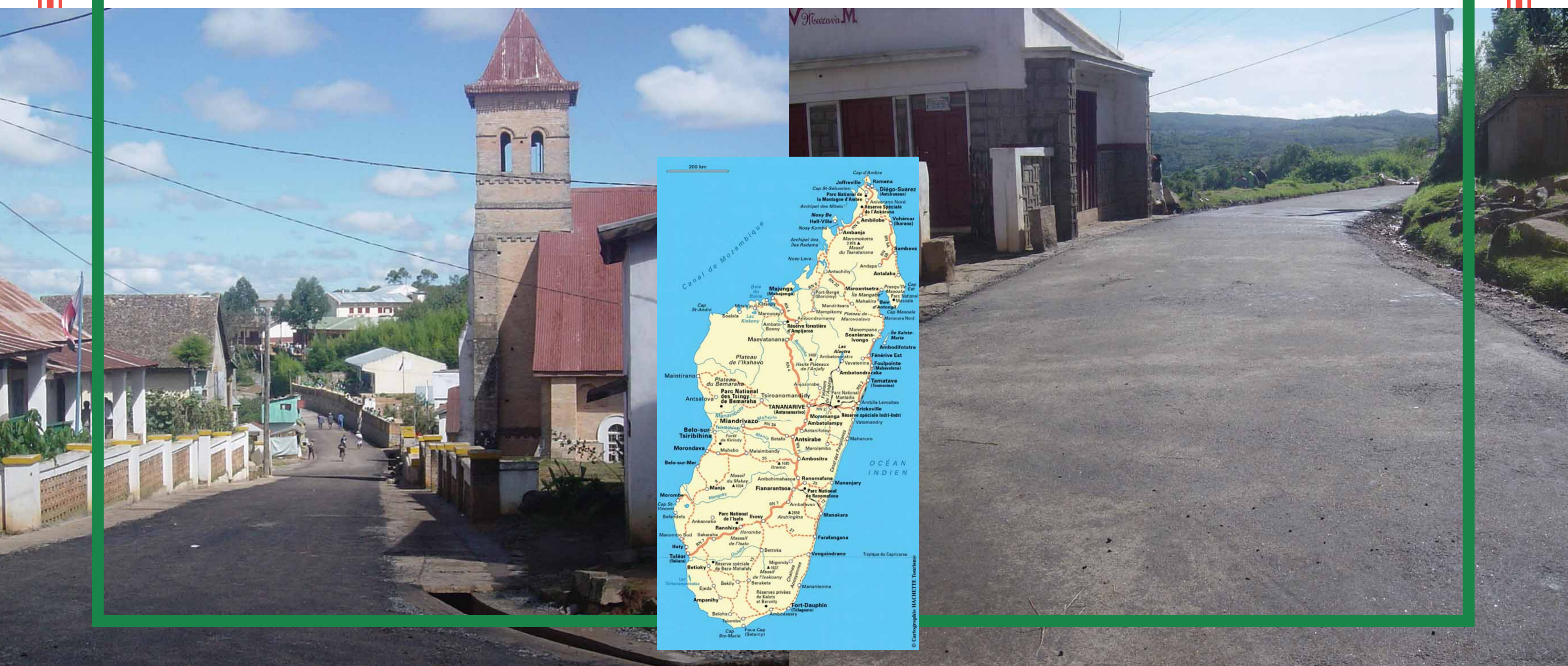


## ACTIVITÉS DU COMITÉ JUSQU'À CE JOUR

- Gestion du Centre de Transfert de Technologie
- Création du Réseau Mondial d'échange
- Organisation avec le Congrès Malgache de la Route du 4<sup>e</sup> Congrès Malgache de la Route et des Transports (CMRT) en juin 2006
- Participation aux travaux des commissions techniques pour le 24<sup>e</sup> Congrès Mondial de la Route à Mexico en 2011
- Préparation avec le CMRT du V<sup>e</sup> Congrès Malgache de La Route et des Transports et du 3<sup>e</sup> Congrès Africain de la Route à Madagascar en 2012



ROUTE NATIONALE N°25. Vohiparara - Iroandro



Revêtement en CARBONCOR

Revêtement traité en enrobé à froid 0/14 avec huile lourde de Tsimiroro