

# LA GESTION DE PATRIMOINE ROUTIER ET LES TECHNIQUES DE CHAUSSÉES

## Les travaux du comité Gestion de Patrimoine de l'AIPCR

### Pascal ROSSIGNY



29 novembre 2018 – Marne La Vallée



# ➤ **Les membres du comité D1**

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# **Les Manuels Electroniques de l'AIPCR**

# Le Manuel sur la Sécurité Routière

The image is a screenshot of the World Road Association (WRA) website. At the top left is the WRA logo, which includes the text 'WORLD ROAD ASSOCIATION', 'MONDIALE DE LA ROUTE', and 'AIPCR PIARC'. To the right of the logo, there are navigation links: '>> World Road Association website', 'Log in', and 'English'. The main heading is 'ROAD SAFETY MANUAL' with the subtitle 'A MANUAL FOR PRACTITIONERS AND DECISION MAKERS ON IMPLEMENTING SAFE SYSTEM INFRASTRUCTURE!'. Below this is a green navigation bar with five menu items: 'INTRODUCTION', 'STRATEGIC GLOBAL PERSPECTIVE', 'ROAD SAFETY MANAGEMENT', 'PLANNING, DESIGN & OPERATION', and 'TOOLS'. A search bar is located to the right of the 'TOOLS' menu. The main content area features a large green heading: 'WELCOME TO THIS WORLD ROAD ASSOCIATION GUIDE'. Below this is a paragraph: 'THE NEW ROAD SAFETY MANUAL (RSM) IS DESIGNED TO HELP COUNTRIES AT EVERY STAGE OF INFRASTRUCTURE DEVELOPMENT TO FULFILL ROAD SAFETY OBJECTIVES.' This is followed by a sub-heading: 'It is aligned with key pillars for the United Nations Decade of Action for Road Safety 2011-2020:' and a bulleted list of three pillars: 'Pillar 1: Road Safety Management;', 'Pillar 2: Safer Roads and Mobility;', and 'Pillar 4: Safer Road Users.' Below the list is a paragraph: 'This comprehensive resource builds on the broad range of knowledge and experience provided by PIARC in the first edition. It includes new thinking on road safety and offers a clear argument on why adopting a Safe System approach is crucial for your country.' Another paragraph follows: 'The Safe System approach aims for a more forgiving road system that takes human fallibility and vulnerability into account. Under the Safe System approach, everyone (public agencies, automobile manufacturers, road users, enforcement officials, and others) must share the responsibility for road safety outcomes.' On the right side of the page, there is a green box with the text: 'ARE YOU A RESEARCHER, A STUDENT OR A PROFESSIONAL? CREATE YOUR FREE ACCOUNT TO ACCESS THE ADDITIONAL MEDIA MATERIALS AND RECEIVE ALERTS WHEN NEW CONTENTS ARE PUBLISHED.' Below this is a long-exposure photograph of a city street at night with light trails. Underneath the photo is a 'REGISTER' button. Below that is a grey box with a right-pointing arrow and the text: 'ACCESS TO THE KEY MESSAGES FOR THE MANAGERS'. At the bottom right is another green box with the text: 'GIVE US YOUR FEEDBACK! DO YOU WANT TO SEND'.

>> World Road Association website   Log in   English

**WORLD ROAD ASSOCIATION**  
MONDIALE DE LA ROUTE  
AIPCR PIARC

**ROAD SAFETY MANUAL**  
A MANUAL FOR PRACTITIONERS AND DECISION MAKERS  
ON IMPLEMENTING SAFE SYSTEM INFRASTRUCTURE!

INTRODUCTION   STRATEGIC GLOBAL PERSPECTIVE   ROAD SAFETY MANAGEMENT   PLANNING, DESIGN & OPERATION   TOOLS

**WELCOME TO THIS WORLD ROAD ASSOCIATION GUIDE**

**THE NEW ROAD SAFETY MANUAL (RSM) IS DESIGNED TO HELP COUNTRIES AT EVERY STAGE OF INFRASTRUCTURE DEVELOPMENT TO FULFILL ROAD SAFETY OBJECTIVES.**

It is aligned with key pillars for the United Nations Decade of Action for Road Safety 2011-2020:

- **Pillar 1:** Road Safety Management;
- **Pillar 2:** Safer Roads and Mobility;
- **Pillar 4:** Safer Road Users.

This comprehensive resource builds on the broad range of knowledge and experience provided by PIARC in the first edition. It includes new thinking on road safety and offers a clear argument on why adopting a Safe System approach is crucial for your country.

The Safe System approach aims for a more forgiving road system that takes human fallibility and vulnerability into account. Under the Safe System approach, everyone (public agencies, automobile manufacturers, road users, enforcement officials, and others) must share the responsibility for road safety outcomes.

**ARE YOU A RESEARCHER, A STUDENT OR A PROFESSIONAL?**  
CREATE YOUR FREE ACCOUNT TO ACCESS THE ADDITIONAL MEDIA MATERIALS AND RECEIVE ALERTS WHEN NEW CONTENTS ARE PUBLISHED.

REGISTER

» ACCESS TO THE KEY MESSAGES FOR THE MANAGERS

**GIVE US YOUR FEEDBACK!**  
DO YOU WANT TO SEND

# Le manuel sur la gestion de trafic

The screenshot shows the top portion of a website. At the top right, there are navigation links: '>> World Road Association website', 'Log in', and 'EN'. On the left is the logo for the World Road Association (AIPCR PIARC). The main title is 'ROAD NETWORK OPERATIONS & INTELLIGENT TRANSPORT SYSTEMS' with the subtitle 'A GUIDE FOR PRACTITIONERS!'. Below this is a dark navigation bar with menu items: 'THE BASICS', 'ROAD NETWORK OPERATIONS', 'BUILDING BLOCKS', 'EMERGING ECONOMIES', and 'TOOLS'. A search bar is located to the right of the 'TOOLS' menu. The main content area features a large heading 'WELCOME TO THIS WORLD ROAD ASSOCIATION GUIDE' followed by introductory text and several paragraphs. On the right side, there is a blue call-to-action box with the text 'ARE YOU A RESEARCHER, A STUDENT OR A PROFESSIONAL?' and 'CREATE YOUR FREE ACCOUNT TO ACCESS THE ADDITIONAL MEDIA MATERIALS AND RECEIVE ALERTS WHEN NEW CONTENTS ARE PUBLISHED.' Below this box is an image of a 'PLUG-IN HYBRID' car charging station and a 'REGISTER' button. At the bottom left, there is a small text snippet: 'Établissement d'une liaison TLS avec stats.g.doubleclick.net...'

>> World Road Association website | Log in | EN

**WORLD ROAD ASSOCIATION**  
**ASSOCIATION MONDIALE DE LA ROUTE**  
AIPCR PIARC

**ROAD NETWORK OPERATIONS & INTELLIGENT TRANSPORT SYSTEMS**  
A GUIDE FOR PRACTITIONERS!

THE BASICS | ROAD NETWORK OPERATIONS | BUILDING BLOCKS | EMERGING ECONOMIES | TOOLS

## WELCOME TO THIS WORLD ROAD ASSOCIATION GUIDE

Most transport modes are experiencing rising congestion and this directly affects the economies of many nations. Relief for road congestion is an issue all over the world.

**Road Network Operations (RNO)** concern the methods at the disposal of road authorities and highway infrastructure operators that contribute to safer and more efficient travel for road users and for society as a whole. This includes techniques such as traffic incident detection, incident management, traffic control (urban and inter-urban), traveller information (pre-trip and on-trip), public transport priorities, electronic payment and travel demand management techniques.

**Intelligent Transport Systems (ITS)** concern a wide range of services that use information and communications technology that can improve transportation and mobility.

The range of ITS tools and services for road transport are explained here, together with the ways they can be deployed. There are also case studies of practical examples of ITS good practice from around the world.

ITS has become a core discipline in Road Network Operations, varying from country to country in levels of take-up and local applicability. This website offers guidance on the effective use of ITS in Road Network Operations based on practical experience in many countries.

ARE YOU A RESEARCHER, A STUDENT OR A PROFESSIONAL?  
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PLUG-IN HYBRID

REGISTER

Établissement d'une liaison TLS avec stats.g.doubleclick.net...

# Le manuel sur les tunnels

>> Site de l'Association mondiale de la Route    Se connecter    Français

**WORLD ROAD ASSOCIATION MONDIALE DE LA ROUTE**  
AIPCR PIARC

## MANUEL DES TUNNELS ROUTIERS

INTRODUCTION    ASPECTS TRANSVERSAUX    EXIGENCES OPÉRATIONNELLES ET SÉCURITAIRES    **OUTILS**   

### BIENVENUE DANS LE "MANUEL AIPCR DES TUNNELS ROUTIERS" !

- 1. Le manuel des tunnels routiers
- 2. Si c'est votre première visite
- 3. Copyright
- 4. Disclaimer
- 5. Dernières mises à jour de la version française

#### 1. LE MANUEL DES TUNNELS ROUTIERS

L'Association mondiale de la Route (AIPCR) est une organisation gouvernementale qui vise à encourager et faciliter la discussion à l'échelle mondiale et à partager les connaissances sur les routes et le transport routier. Elle s'appuie pour cela sur des Comités techniques qu'elle crée et qu'elle coordonne.

Le besoin de mise en commun des expériences acquises dans le domaine de l'exploitation des tunnels date de plusieurs décennies déjà et c'est pourquoi, en 1957, l'AIPCR a créé le "Comité des Tunnels routiers" qui traite de tous les aspects liés à l'utilisation des tunnels routiers tels la géométrie, les équipements et leur maintenance, l'exploitation, la sécurité et l'environnement. Ce comité produit depuis cette date des recommandations techniques dans ces différents domaines.

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[POUSUIVRE MA NAVIGATION](#)    [EN SAVOIR PLUS](#)

**ÊTES-VOUS UN ÉTUDIANT, UN CHERCHEUR OU UN PROFESSIONNEL ?**

CRÉEZ GRATUITEMENT VOTRE COMPTE POUR ACCÉDER AUX DOCUMENTS ADDITIONNELS DES KITS MULTIMÉDIAS ET RECEVOIR LES ALERTES LORSQUE DE NOUVEAUX CONTENUS SONT DISPONIBLES.

[S'ENREGISTRER](#)

# Le manuel de gestion de patrimoine



## ASSET MANAGEMENT MANUAL A GUIDE FOR PRACTITIONERS!

MANAGEMENT DATA AND MODELING PLANNING APPLICATION

TOOLS



## WELCOME TO THE PIARC ASSET MANAGEMENT MANUAL

Road infrastructure asset is the most valuable asset owned by the public sector in most countries and it supports a nation's economy. Traditional management methods will no longer be sufficient to meet 21st century business and political demands.

Asset management is a well-established discipline successfully implemented in several countries, for management of highways as well as other physical asset, addressing demands of a nation's citizens and industry for greater accountability and transparency, more efficient use of funds, greater focus on customer expectations and more sustainable solutions.

It is recognized that all road organizations manage their assets, but they do not necessarily all apply an asset management framework in order to achieve their desired outcomes from the delivery of their service to the traveling public and other stakeholders.

**This manual has been developed by the World Road Association (PIARC) and it provides advice: on how asset management principles may be used to support a more efficient approach to maintain road infrastructure assets - road organizations' most valuable assets, and on the implementation and continuous development of road infrastructure asset management.**

The manual builds on the progress made with asset management, as matter of fact manuals from several countries, documents, websites and materials are referenced. The manual also contains case studies of successful practices to document the lesson learned and experience gained in implementing asset management.

There are many reasons why the appropriate level of asset management practice varies among road organizations, or within a road organization, as road AM, practices consolidate. Therefore, **this manual is aimed at national and local road organizations, regardless to organization asset management competency (maturity level)**, and at all of those involved in managing highway infrastructure, including senior decision makers, asset managers and practitioners. The manual is...

## ARE YOU A RESEARCHER, A STUDENT OR A PROFESSIONAL?

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REGISTER

## GIVE US YOUR FEEDBACK!

DO YOU WANT TO SEND US A REVIEW?

SEND

# ➤ Le manuel de gestion de patrimoine



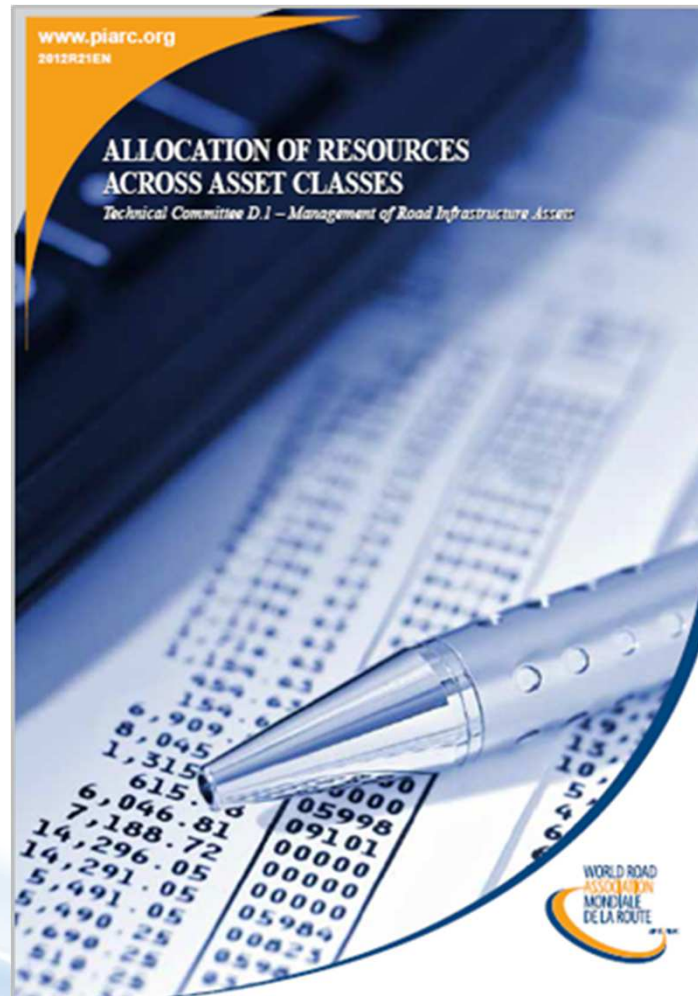


# ➤ La gestion globale du patrimoine

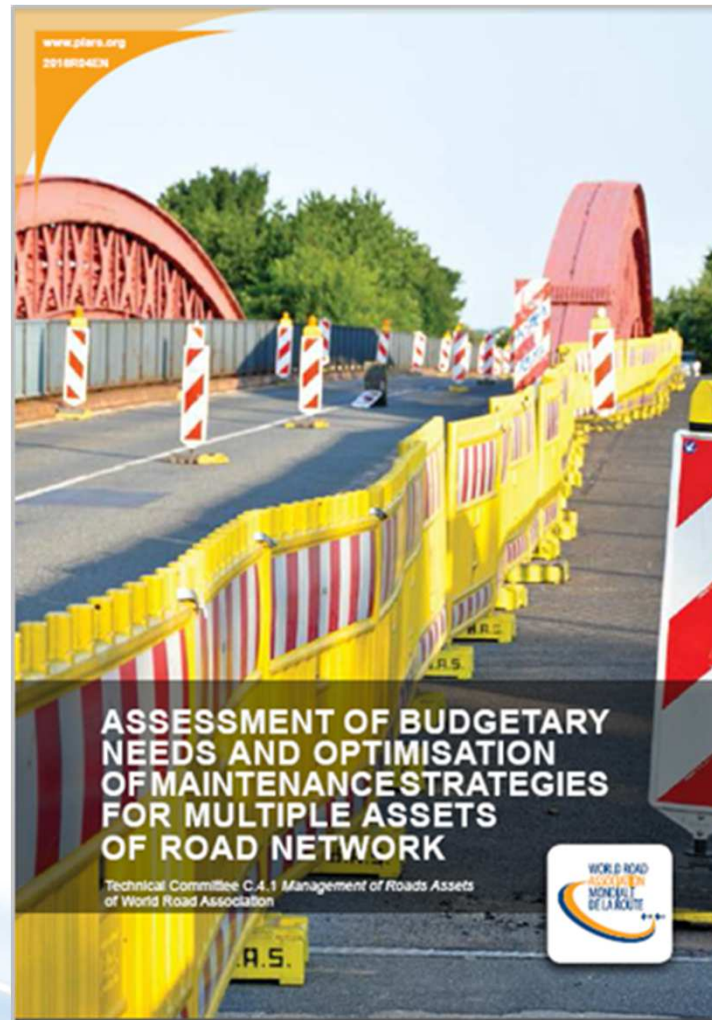
Déterminer la répartition des budgets d'entretien entre les différents types d'ouvrages (chaussées, ouvrages d'art, équipements, assainissement, environnement,...)

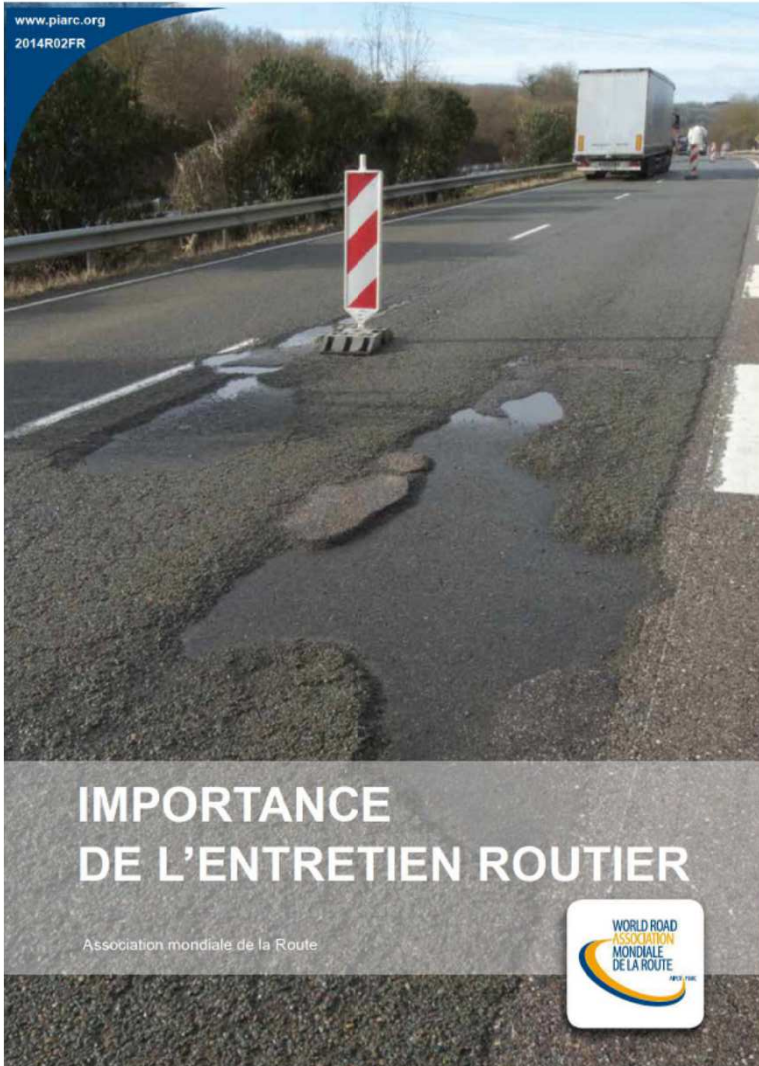
Gestion patrimoniale intégrée

# ➤ Rapports utiles (précédent cycle)



# ➤ Rapports utiles (précédent cycle)





www.piarc.org  
2014R02FR

# IMPORTANCE DE L'ENTRETIEN ROUTIER

Association mondiale de la Route



## **Travail en cours**

Mise à jour du Manuel

Traduction en Français et Espagnol

Insertion d'études de cas (GEPUR,...)

Proposition de programme d'enseignement dans les universités

Rapport d'enquête sur les approches innovantes de gestion de patrimoine

Mise à jour de HDM4



2<sup>e</sup> trimestre 2015 2<sup>nd</sup> Quarter

www.piarc.org

Routes Roads n° 366

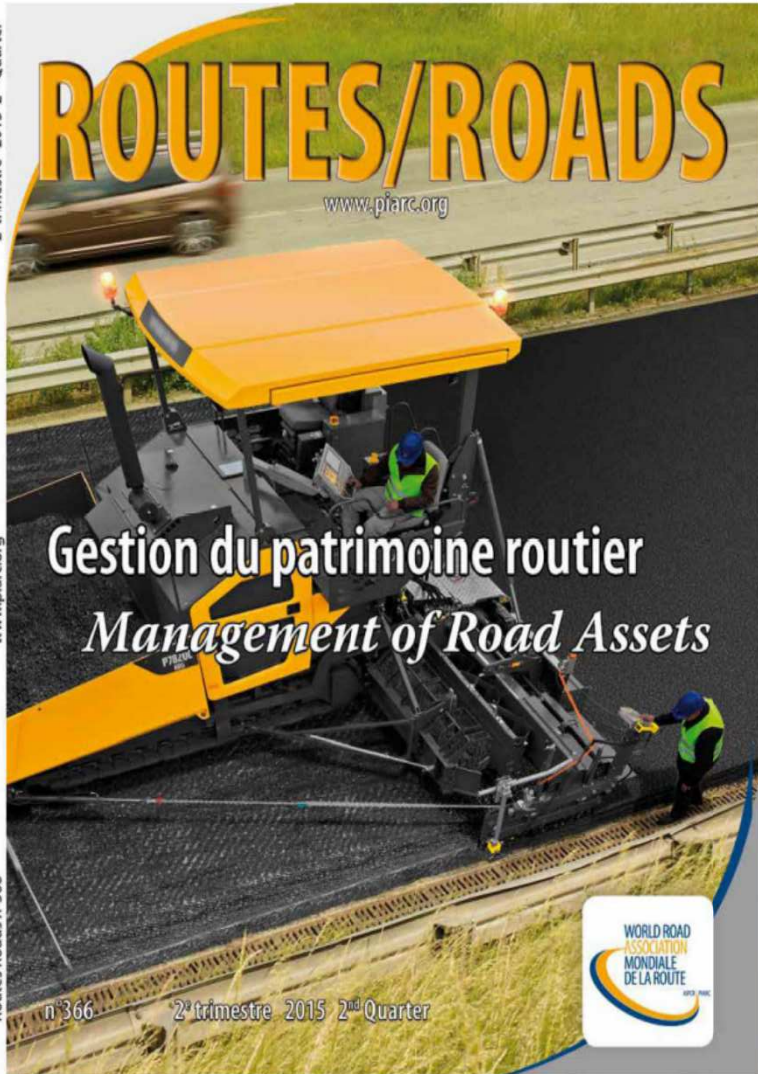
# ROUTES/ROADS

www.piarc.org

Gestion du patrimoine routier  
*Management of Road Assets*

n° 366

2<sup>e</sup> trimestre 2015 2<sup>nd</sup> Quarter



# Le prochain congrès mondial de la route



**RAPPROCHER LES CULTURES  
RENFORCER LES ÉCONOMIES**

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6 au 10 Octobre 2019

**Merci de votre attention**

