



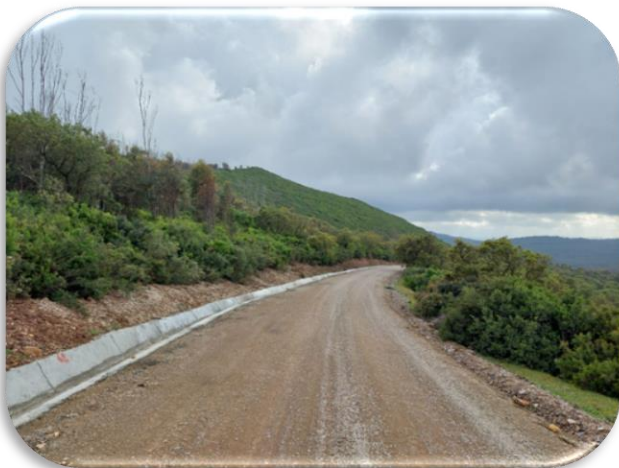
## 1 st Announcement

**“Resilient, sustainable and safe rural roads  
& earth structures for a better future »**

3, 4 &5 May 2023

Hotel: El Mouradi Gammarth, Tunis

- Tunisia-



## Organized by:

- World road association (PIARC) <https://www.piarc.org/en/>
- Tunisian road association (ATR) <https://atr-tunisie.org/>
- Ministry of Equipment and Housing of Tunisia <http://www.mehat.gov.tn/index.php?id=2&L=2>

## The PIARC Program and international seminars

PIARC (the World Road Association) is a non-profit, non-political organization whose mission includes organizing forums, disseminating good practices, and promoting efficient tools for decision support in road and road transport.

As part of its work, and since 1999, the Association has been organizing a program of international seminars which strengthens its presence in the world, its consideration of the needs of developing countries and countries in transition, and makes the results of the Association's work more widely known in these countries.

This Seminar is co-organized by two PIARC technical committees TC2.2 and TC4.3.

### • Technical Committee TC2.2

Rural areas provide goods, industries, and workforce for all communities, and roads are the most important way to exchange goods and services. Technical Committee 2.2 "Accessibility and Mobility in Rural Areas" focuses on accessibility in rural areas and on mobility needs.

Road networks in rural areas are very extensive compared to the low density of population, and as a result it is difficult to finance the construction and the maintenance of those networks and the safety conditions are generally poor. Therefore, this Technical Committee focuses on:

- Accessibility and mobility in rural areas,
- Improving road safety in rural areas,
- Technical solutions for paved and unpaved roads.

### • Technical Committee TC4.3

Technical Committee 4.3 "Earthworks" focuses in particular on the identification of technologies and innovations in their construction and maintenance. The knowledge gained within the framework of this work will then also be incorporated into the further development of the Earth Work Manual, which will be made available in an updated and expanded version. Therefore, this Technical Committee focuses on:

- Measures for increasing resilience of earthworks,
- Techniques and innovation for construction and maintenance of earthworks,
- Update Earthworks Manual "Design and Construction of earth-structures".

## Objectives of the seminar

This international seminar brings together road professionals from government, academia, private sector, universities to:

- Improve understanding of rural roads and earth structures,
- Apprehend the challenges of rural roads and earth structures,
- Learn about best practices and models of implementation which could be used as examples,
- Exchange ideas between the participants and propose solutions,
- Network and connect road professionals to one another.

## Target audience

- Road administrations,
- Professionals from road sector,
- Engineers,
- Technical designers and design offices,
- Road network managers,
- Suppliers of road construction and maintenance,
- Technical assistance offices, universities,
- Engineering students.

## Seminar venue and dates

The seminar will take place on **3, 4 & 5 May 2023 in Tunis, Tunisia.**

Tunisia is located in the Maghreb region of North Africa. It is bordered by Algeria to the west and southwest, Libya to the southeast, and the Mediterranean Sea to the north and east. The country also shares maritime borders with Italy. It has an area of about 164,000 km<sup>2</sup> and a population of 12 million. Its coastline is approximately 1,150 km long. The capital of Tunisia is the city of Tunis. Tunisia is a tourist destination full of fascinating attractions.

## Languages of the seminar

The languages used in the seminar will be **French and English with simultaneous translation.**

## Program

<b>Day1: 03rd of May</b>	
Opening session	
Welcoming words	Imen Makhlouf -TC2.2 & Kamel Zaghouani TC4.3
ATR Tunisian road association presentation	Aida Bergaoui - President ATR
PIARC Presentation	Nazir Ali - President PIARC
TC2.2 Rural Accesibility and mobility	Souleman Oussiman, Chair of PIARC TC2.2
TC4.3 Earthworks	Patrick Boisson, Chair of PIARC TC 4.3
Opening words	Minister of Equipement and housing
Keynote lecture Needs for a more resilient roads in a frame of a climate change	Mr Slah Zouari first delegate of PIARC, Tunisie
Session 1: Challenges for rural roads and earthworks	
Session 2: Best practices for rural roads and earthworks: Current practices in LMIC's	
Session3: Low-cost maintenance and innovative solutions for sustainable rural roads and earthworks	
<b>Day2: 04 th of May</b>	
Parallel session- TC2.2: Accessibility and mobility in rural areas (room1)	Parallel session -TC4.3 : Sustainable Earthworks and CO2 reduction ( room2)
Session 4-1: Safe rural roads for all road users (VRU, how to improve rural mobility, countermeasures,... ) :	Session 4-2: Sustainable Earthworks, platforms design and CO2 reduction – Comparisons of different approaches: European, American, and British standards- Part 1
Session 5-1: Improving accessibility and mobility in rural areas ( Rural areas needs, social impacts of rural roads, Efficient transport, public transport , ...)	Session 5-2: Sustainable Earthworks, platforms design and CO2 reduction – Comparisons of different approaches: European American, and British standards - Part 2
Session 6: Technical solutions for paved and unpaved roads and interaction with slopes stability	
Session 7: Climate change and resilience of rural roads and earthworks	
Round table: future for rural roads and earthworks	
Closing session	
Dinner	
<b>Day3: 05 of May</b>	
Technical visit	
Lunch	

## Organisation Committee

<b>PIARC</b>	Miguel CASO FLOREZ
	Jeayoun Kim
<b>Seminar chairs</b>	Imen Makhoulf
	Kamel Zaghouni
<b>ATR</b>	Aida Bergaoui, Kaouther Machta, Saloua Triki, Ahmed Ksontini, Mohamed Zmerli, Eya Souab and Imen Ben Hessine

## Scientific committee

<b>TC2.2</b>	Souleman Oussman
	Imen Makhoulf
	Izak vander lande
	Francois Chaignon
	Paula Claytonsmith
<b>TC4.3</b>	Patrick Boisson
	Kamel Zaghouni
	Yassmina Boussafir

## Location of the Seminar

Hotel El Mouradi Gammarth : Les côtes de Carthage, La Marsa, Tunis, BP 597-2070, Gammarth, Tunisia - Telephone: +216 71 27 43 00 - <https://goo.gl/maps/UbhBmpJRH6PE3SaQ9> -

Website : [www.elmouradi.com](http://www.elmouradi.com) Email : [sales1.gammarth@elmouradi.com](mailto:sales1.gammarth@elmouradi.com)

## Accommodation

El Mouradi Gammarth offers Superior" rooms for single use at the rate of 198 TND (incl. taxes) per day including breakfast.

Contacts details: Les côtes de Carthage, La Marsa, Tunis, BP 597-2070, Gammarth - +216 71 27 43 00 - W7CQ+G8 Marsa Email : [sales1.gammarth@elmouradi.com](mailto:sales1.gammarth@elmouradi.com)

## Registration and fees

Registration fees				Payment method
<i>The seminar</i>	<b>Before April 15th</b>	High-income countries	350 €	By direct bank deposit to the account of the Tunisian Roads Association (see <b>ATR Bank</b> )
		Middle- and low-income countries	350 TND	
	<b>After April 15th</b>	High-income countries	400 €	
		Middle- and low-income countries	400 TND	
<i>Gala Dinner</i>		High-income countries	60 €	By direct bank deposit or cash during the

	Middle- and low-income countries	120 TND	registration on the first day of seminar
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**ATR Bank** : Banque Internationale Arabe de Tunisie « BIAT » - AGENCE LES BERGES DU LAC

Account owner: Tunisian Road Association

IBAN International TN59 0860 3000 1520 0905 8019

Code BIC: BIATTNTT

The registration will be validated upon receipt of the proof of payment to:

ATR : [imenmakh@gmail.com](mailto:imenmakh@gmail.com)

## Registration Link

<https://forms.gle/ZnAyNdrjZ4QrDPCw7>

## Travel and transportation

The capital Tunis is well linked to the rest of the world through the international airport Tunis - Carthage and the cab service in the capital is very affordable, the online cab order service is very common.

## Climate

In Tunisia, May is known as a warm month. The average maximum daytime temperature in Tunis in May lies at 27.0°C (80.6°F). The average minimum temperature goes down to around 16.0°C (60.8°F) (often the minimum temperature is noted at night).