

Didier Giloppé Chairman of Piarc TC B2 Winter Service committee

www.vialidadinvernal.org.ar

ORGANIZAN













Strategic plan and terms of reference to organize the activity

22 committees and task force



Strategic Plan 2016-2019 Terms of reference for the Technical Committees and Task Forces







The **<u>Strategic Plan for 2016-2019</u>** sets the organization structure of the Technical Committees according to five Strategic Themes:

- Strategic Theme A Management and Finance
- Strategic Theme B Access and Mobility
- <u>Strategic Theme C Safety</u>
- <u>Strategic Theme D Infrastructure</u>
- Strategic Theme E Climate Change, Environment and Disasters

Technical Committees are tasked with producing reports on best practice and recommendations in their respective fields thereby assisting decision makers, road engineers and research engineers. They play an active role in the preparation of the World Road Congresses. Technical Committees consist of distinguished engineers and experts appointed by member countries. They meet on average twice a year between Congresses allowing them to discuss and report on their work programme.





Activités du comité durant le nouveau cycle

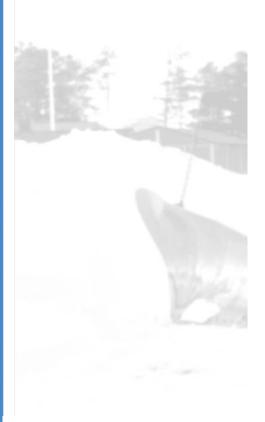
Management and Finance	Access and Mobility	Safety	Infrastructure	Climate Change, Environment and Disasters
		Technical Committees	5	
		Terminology*		
Performance of Road Administrations	Road Network Operations/ITS* Winter Service* Sustainable Multimodality in Urban Areas	National Road Safety Policies and Programs * Design and Operations of safer Road Infrastructure	Road Tunnel Operations* Asset Management* Pavements Bridges	Adaptation Strategies/Resiliency
Road Transport System Economics and Social Development Risk Management	Freight		Rural Roads and Earthworks	Environment Considerations in Roa Projects & Ops Disaster Management
		Task Forces		
Innovative Financing Coordination between National and Sub- National Authorities	Road Design & Infrastructure for Innovative Transport Solutions	Infrastructure Security		

*Indicates a multi-cycle Technical Committee.





Terms of référence



Cerema

Issue B.2.1				
Transportation management during winter events				
Strategies	Outputs			
Identify and document best practices on winter	Case studies-based report on successful practices			
service management and road user information	taking into account potential input form TC E.2.			
systems that mitigate the effects of winter events on				
performance of the system and add to network	Training materials and presentations to support			
resiliency.	dissemination and implementation.			
	Action plan for promoting these practices through			
	implementation focus activities and events.			
Tssue	B.2.2			
	ts, interventions and best practices			
Strategies	Outputs			
Investigate and document best practices associated	Guidance report.			
with the use of technology in de-icing treatments,	1			
including mitigation the impacts on the				
environment.				
	B.2.3 w and Ice Data Book			
Strategies	Outputs			
To establish the Snow and Ice Data Book as a	Updated version of the Data Book			
current resource for knowledge transfer globally.	-1			
	Inclusion of an interactive format to facilitate use			
	by members.			
	-			
	B.2.4			
Preparation of the 2018 Winter Road Congress				
Strategies	Outputs			
Identify the priority themes and prepare the	Definition of the technical programme			
scientific program for the Congress taking into	incorporating session(s) on the various criteria of			
consideration the concerns and possible	winter operations for decision makers and			
contributions from other Technical Committees.	acceptable levels of service.			
	Production of the proceedings.			



TC B2 activities

- Publication of reports
- Publication of the snow and ice data book
- Organisation of the international winter Road Congress
- Organisation of workshops
- Organisation of conferences or seminars
- Terminology work





Piarc TC B2 activities Publication of reports :

(To upload for free on the PiarC website)

Crisis management of unusually severe and/or sustained snow event

Sustainability and Climate Change Considerations in Winter Operations

Advanced technology for data collection and information to users and operators





Snow and ice data book

Snow and Ice Data Book is available at the PIARC web site. http://www.piarc.org/ Free of charge for downloading

(French, Spanish, English versions)

- Each report contains 4 main themes
- **Demographics and roads**
- Climate
- Winter road management
- On-going research and studies



Publication sheet

Snow and Ice Databook 2014

SNOW AND IC

DATABOOK 201

Date 2015 Author(s) Comité technique 2,4 - Viabilité hivernale Technical Committee 2,4 - Winter Service Domain(s) Winter service PIARC Ref. Snow and Ice DataBook - SIDB 2014EN ISBN 978-2-84060-355-9

Download for free Pages 223 22925, SIDB-EN-Winter-Service Norld-Road-Association.pdf

French version: Base de données sur la neig et le verglas 2014

English Version:

inow and Ice Databook 2014



(31.8MB)

Spanish version: Base de datos de la vialidad vernal 2014

Download for fr

22924. SIDB-ES-Viabilidad Invernal-Asociacion-Mundial Carretera.pdf (29.6MB)

This fourth edition of the Snow and Ice Databook was produced to accompany the 14th International Winter Road Congress held in Andorra. It compiles in a homogeneous and consistent format descriptions of practices for managing wint road conditions from nearly 30 countries. The four country-specific headings consist of: description based on geography, demographics and road network characteristics; potential climatological and meteorological phenomena; road management methods; and recent developments and current research addressin winter service conditions.

Winter conditions are always difficult to forecast. Climate change has influenced winter weather variations and each year brings its share of surprises. Winter servic has become a difficult activity to plan for and schedule, especially in these times of continuously increasing demands and despite ever-tighter budget constraints Experience from elsewhere is thus most instructive.

The Snow and Ice Databook is perfectly suited to handle such pressure. The objective here is to upload contributions benefiting both user safety, across all travel modes (automobile, walking, bicycle, public transit trips), and economic imperatives often relying on just-in-time management and dependent on the road network. The ultimate challenge is to accommodate environmental concerns and





- Demographics and roads
- Population
- Geographic location
- Economy
- Road network and traffic

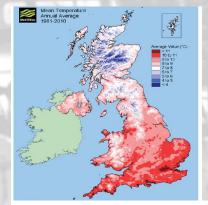
Area		356,700 km ²		
Latitude		47°16' to 55°03'N		
Population		82.0 million		
Length of road 2002-12-31	Federal trunk roads	Federal motorways (Autobahnen; 4- and 6- lane divided highways)	12,800 km	
		Federal highways	40,600 km	
	Other federal-aid roads	State highways	86,600 km	
		County roads	91,500 km	
		Community / urban roads	413,000 km	
	Total		644,500 km	
Capital		Berlin		
Latitude		52°30'N		
Inhabitants		3.5 million		





Climate

- Statistics on temperature and precipitation
- Winter indexes



	Max Temp [deg C]	Min Temp [deg C]	Days of Frost [days]	Rainfall [mm]
England	13.5	5.9	49.1	855
N. Ireland	12.4	5.4	42.8	1136
Scotland	10.7	4.2	67.4	1570
Wales	12.6	5.7	49.3	1460





Winter s lb maintenance class Normal 0.30 0.28 0.25 Friction spot sanding road surface road surface requirement 0.25 line below -6 °C below -4 °C treatment 0.25 0.25 0.22 salt 3 h Cycle time 2 h 2 h sand 4 h

- Winter road management
- Standards and rules
 Level of service
 Equipments
 Materials

Labors

erema



Level 2



Level 3





Theme 3 (cont'd)

- Winter road management
- Organization and operation of winter maintenance
- Assessment of snow and ice control measures
- Traffic safety and information











 On-going research and studies to improve winter management
 New technology
 New management and organization approaches

Wind power generator

Transformer

Nakayama Tunnel

Road heating system

Road heating system







Piarc TC B2 activities Andorra congress

In the conference center.....

Congress members	s 905
Drivers	25
Guest	24
Exhibitors	534
Exhibition visitors	2910
Vips	120
Journalist	48



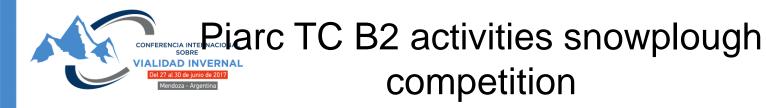
.....and in the street



eren

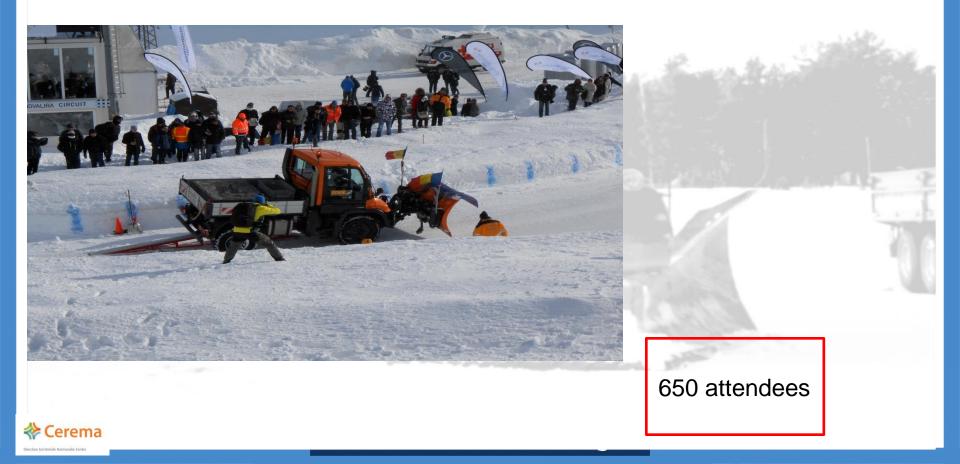








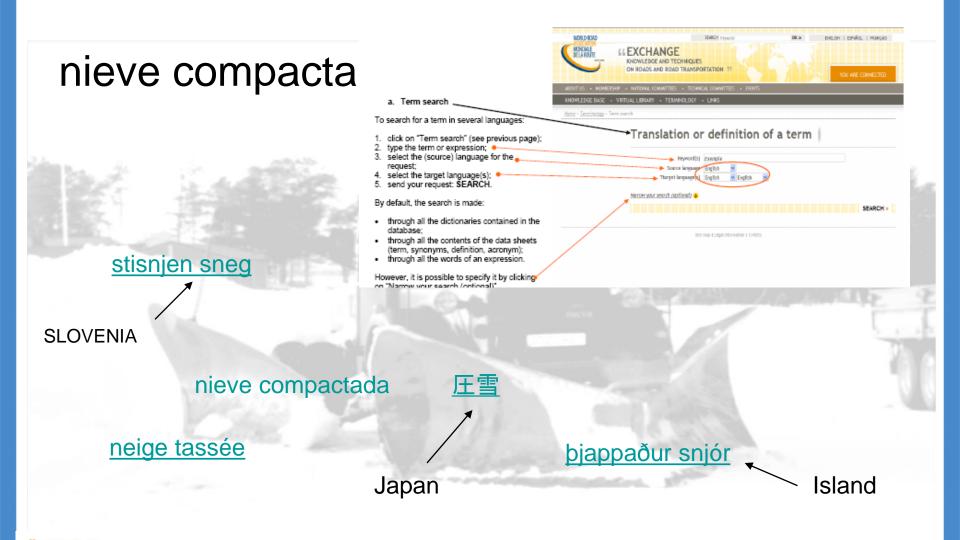
A total of 25 drivers take part on the 2nd International Snow Plough Drivers Championship





erema

Piarc TC B2 activities





Workshop Helsinki

"Mobile road surface condition measurements in winter"



The main questions in the workshop

How to measure friction, road temperature etc. mobile?

How to test potential meter, censor and maintenance technologies?

How to determine the correct use of antiicing chemicals?

What are the strengths and weaknesses of new mobile meters?

How to disseminate the road condition information gathered? How to exchange the information and experiences of new systems and solutions?







Winter service seminar Santiago Chile "Winter operation at high altitude and extreme zones"











World road congress in Korea









A congress every four years 1969 – 1st Congress in Berchtesgaden, Germany Tromsø 1990 Seefeld 1994 Luleå 1998 Sapporo 2002 **Turin-Sestrières 2006** Québec 2010 Andorra 2014







Partnerships and links with other organizations

CEDR (Congress of European Directors of Roads)

BRA (Baltic Road Association) Association of the Baltic Roads

SIRWEC (Standing International Road Weather Commission)

AASHTO (American Association of State Highway and Transportation Officials),

TRB (Transportation Research Board)

TRA (Transport Research Arena)

Cen TC 337 European Committee of Standardization Etc...





International Winter Road Congress Andorra 2014.....

Gdansk 20 23 february 2018



XVth International Winter Road Congress 20-23 February 2018

Cerema



Thank you for your attention !



