

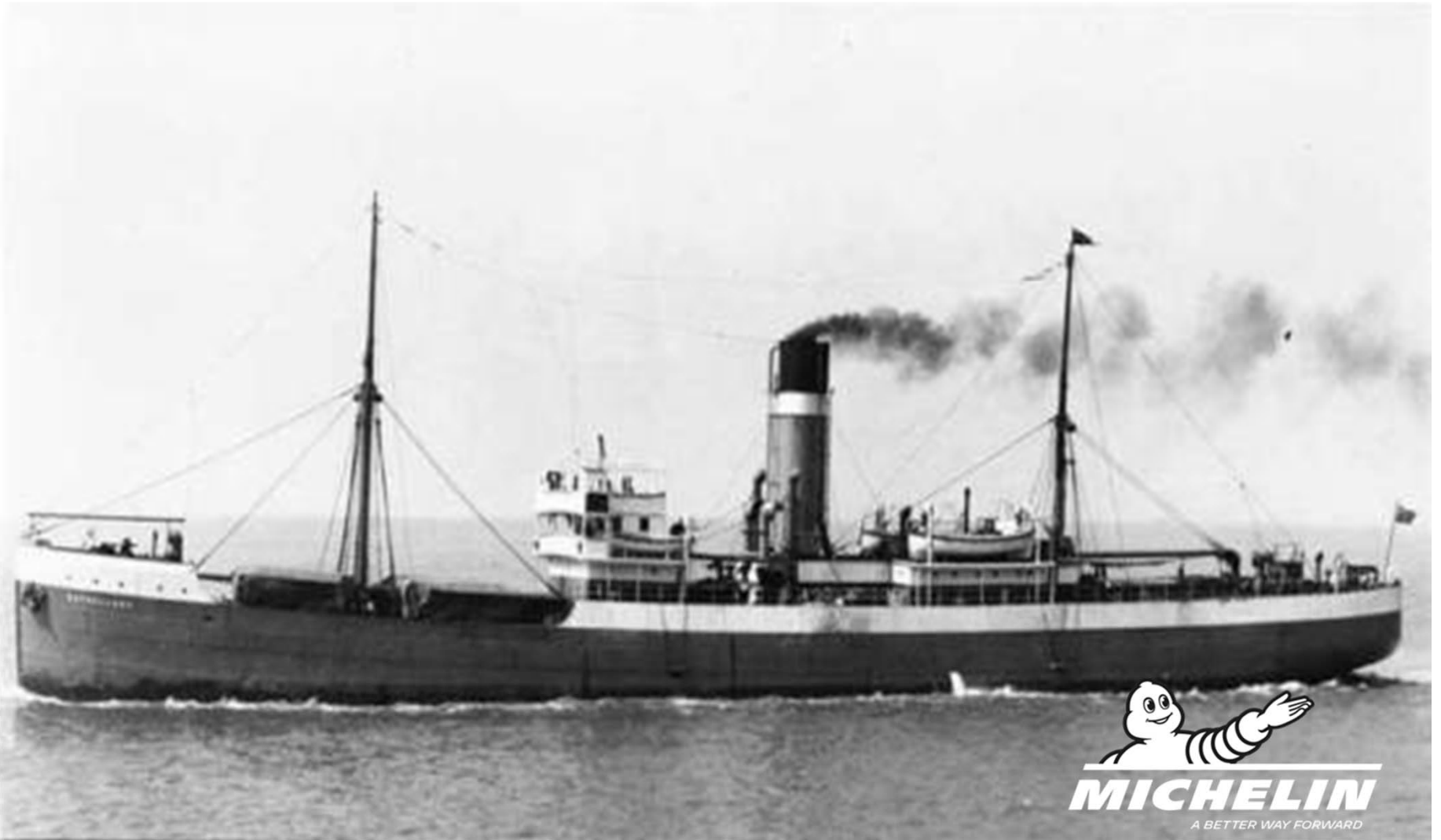
***New Generation Wide Base Single Tires  
in Canada***

***Presentation to Task Force on Vehicle Weights and  
Dimensions Policy***

*November 29, 2017*



*PLANES, TRAINS, SHIPS AND TRUCKS  
YESTERDAY - TODAY : PROGRESS IS HAPPENING!*



**MICHELIN**  
A BETTER WAY FORWARD











  
**MICHELIN**  
A BETTER WAY FORWARD





  
**MICHELIN**  
A BETTER WAY FORWARD





LONDON-BARKING

**MICHELIN**  
**TYRE C<sup>o</sup> Ltd**

*50, Sussex Place W-K.*



**MICHELIN**

A BETTER WAY FORWARD



**WHERE ARE WE HEADED?**



hyperloop | one

**BE ANYWHERE, MOVE EVERYTHING. CONNECT EVERYONE.**

Tomorrow?





## Halifax to Vancouver:

Car: 53 hours, 29 minutes

Rail: 26 hours, 42 minutes

Plane: 8 hours, 18 minutes

**Hyperloop: 5 hours , 1 minute**





**WHAT ARE OUR NEXT STEPS IN  
TRANSPORT?**





  
**MICHELIN**  
A BETTER WAY FORWARD

*LET'S TALK ABOUT NEW GENERATION WIDE BASE SINGLE  
(NGWBS)*



## *MICHELIN NORTH AMERICA (CANADA) INC.*

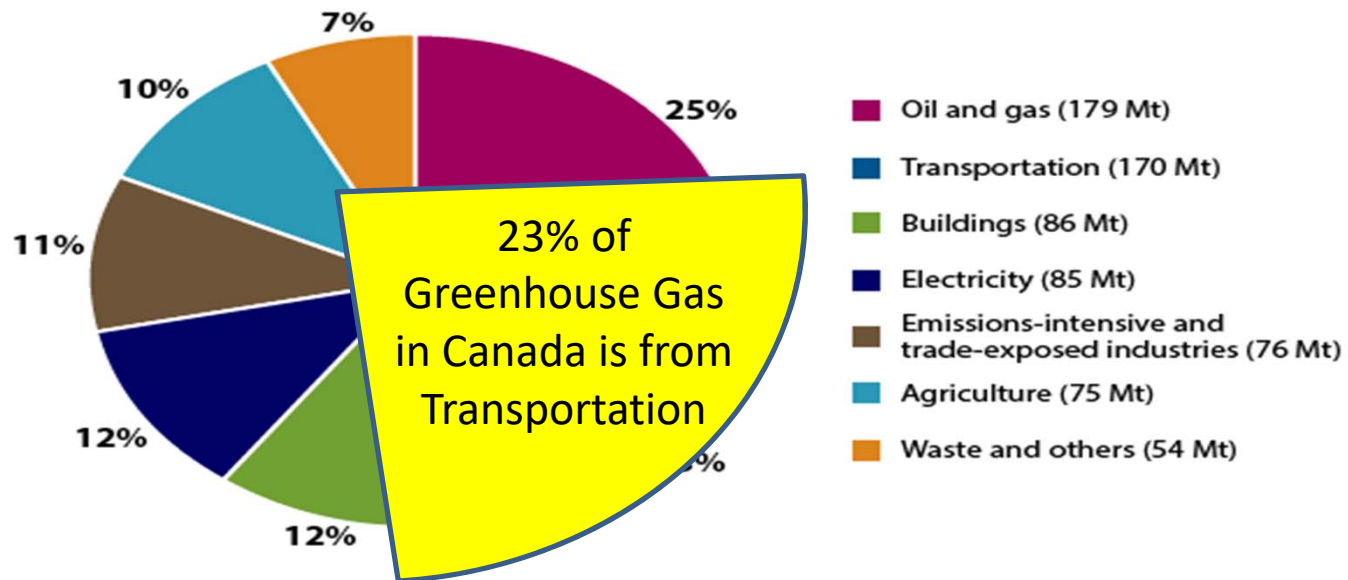
- Approximately **3,450 Michelin employees** in Canada
- Michelin established commercial sales force in **1940**
- Michelin established production facilities in Nova Scotia in 1969; First tire produced in 1971
- Michelin Canadian Headquarters in Laval, QC with **150 employees** including field sales force
- New Generation Wide Base Tires are **manufactured in Waterville, NS.**





# **NEW GENERATION WIDE BASE SINGLE TIRES: BENEFITS**

# GREENHOUSE GAS EMISSIONS IN CANADA

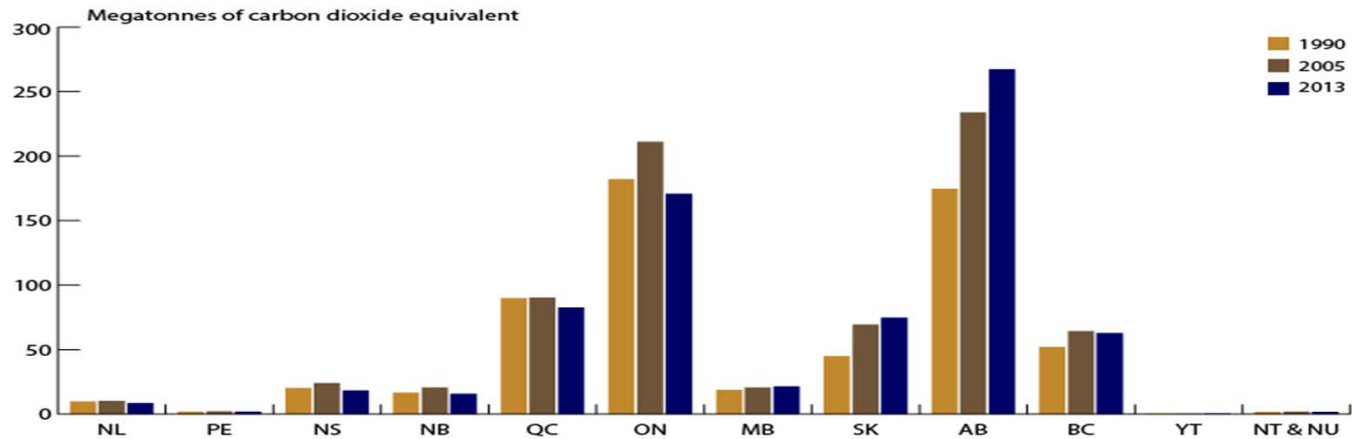


www.ec.gc.ca/indicateurs-indicators



## *GHG EMISSIONS AND THE TRUCKING INDUSTRY*

- Transportation is key to the success of the Canadian economy
- Motorized transportation is a GHG intensive industry
- In spite of a downward trend in air pollution emissions since 1990, it continues to be a major emitter



www.ec.gc.ca/indicateurs-indicators





## *ENVIRONMENT CANADA RECOGNIZED BENEFITS OF NGWBS TIRES*

- GHG emissions reductions of 8.5 tonnes per truck per year (the equivalent of taking 1.8 passenger vehicles per truck off the road each year)
- Fuel savings up to 10% compared to dual tires
- Aligns with federal and provincial commitments to reduce emissions from the transportation sector

*NGWBS tires have the potential to reduce GHG emissions from the transportation sector by up to 2.2 million tonnes. (The equivalent of 23,000 passenger vehicles per year.)*



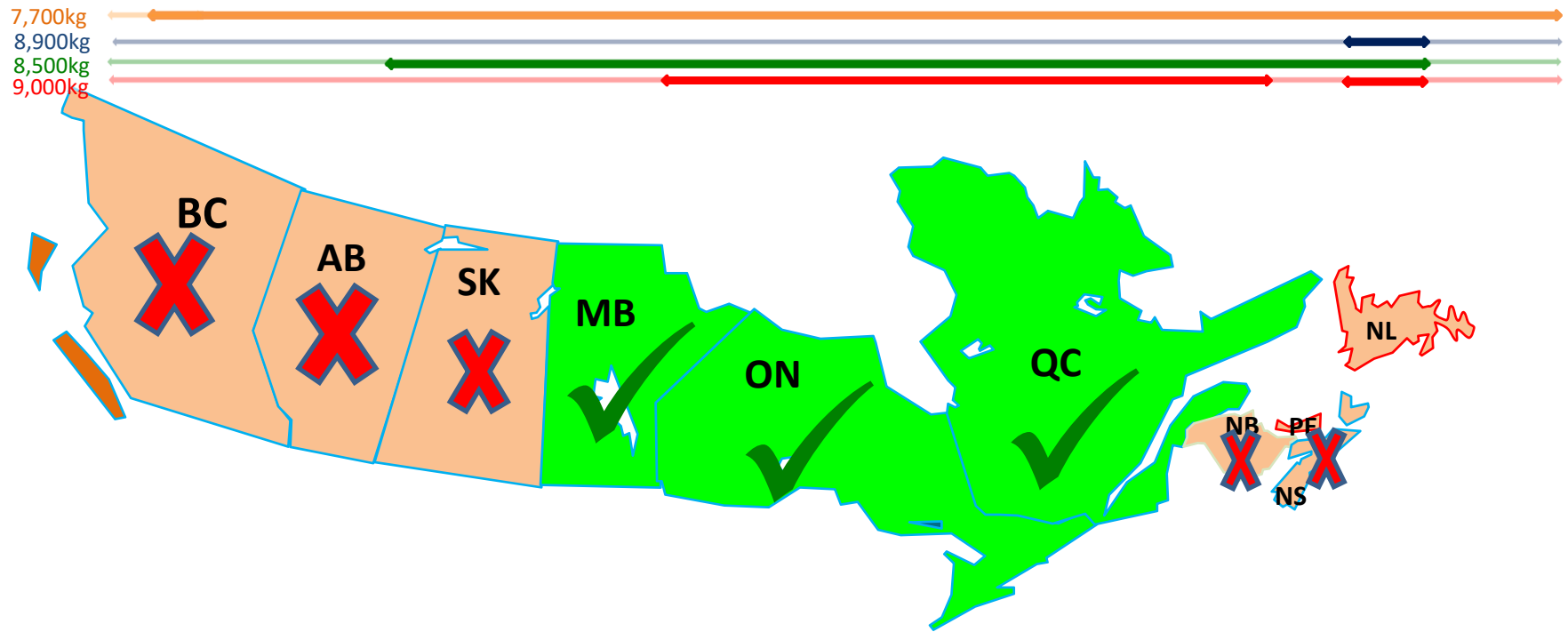
## *SAFETY AND COMPETITIVENESS*

- Reductions in the numbers of both injury and fatality accidents on provincial highways
- Substantial cost savings in the trucking industry in terms of maintenance and other operating costs
- Increased productivity of truck, movements across Canada
- Increased competitiveness for the Canadian trucking industry with US counterparts



# **PROVINCIAL REGULATORY LANDSCAPE**

# NGWBST: PROVINCIAL REGULATORY LANDSCAPE - 2015

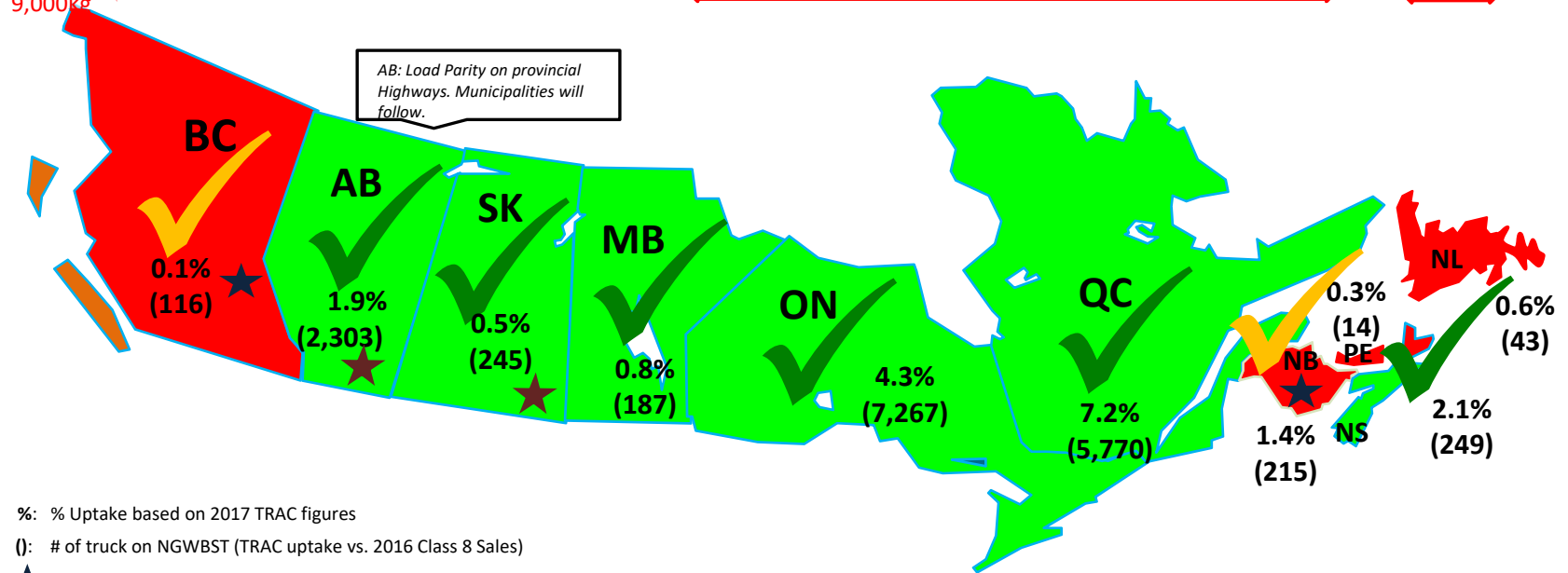


- Provinces at 9,000kg per axle, CA Load (ON, QC, MB, NS (9,000 kg on 455))
- Provinces at 8,500kg per axle, Coalition Load request (ON, QC, MB, SK, AB (provincial highways 455 mm), NS 8,900 kg on 445)
- Provinces at 7,700kg per axle, US Load (All Canada), AB: 7,700 on 445 mm





# CANADA NGWBST PROVINCIAL STATUS - NOVEMBER 2017



⌘: % Uptake based on 2017 TRAC figures

( ): # of truck on NGWBST (TRAC uptake vs. 2016 Class 8 Sales)

★ Pilot or Parity to come

★ Pilot running

✓ Pilot approved or running at load parity

✓ In process to the load parity

→ Provinces at 9,000kg per axle, CA Load (ON, QC, MB, NS (9,000 kg on 455))

→ Provinces at 8,500kg per axle, Coalition Load request (ON, QC, MB, SK, AB (provincial highways 455 mm), NS 8,900 kg on 445)

→ 8,900kg per axle on 445 mm

→ Provinces at 7,700kg per axle, US Load (All Canada), AB: 7,700 on 445 mm



## NGWBS TIRES: PROVINCIAL REGULATORY STATUS

PROVINCE	NGWBS Tire STATUS	COMMENTS
BC	7,700 kg per axle	Seeking load parity at 8,500 kg
AB	8,500 kg per axle on 455 & 445; on Provincial Highways	Resolving concerns with municipal governments
SASK	8,500 kg per on 455 mm on Mx X One only	N/A
MB	9,000kg per axle	Provincial RTAC roads
ON	9,000 kg per axle	Load parity since 2009
QC	9,000 kg per axle	Load Parity since 2008
NB	7,700 kg per axle	Seeking load parity at 8,500 kg
NS	455mm will allow 9,000kg / 445mm will allow 8,900kg	Permanent Pilot
PEI	7,700 kg per axle	Permit of \$25 for the fleet
NFL	7,700 kg per axle	N/A



**NEXT STEPS**

## *NEXT STEPS*

### **British Columbia**

- BC is looking at approving a pilot project?

### **Alberta**

- Provincial pilot approved for highways.
- Michelin and the Alberta Motor Transport Association are working with municipalities to resolve concerns related to infrastructure stress.

### **New Brunswick**

- Transportation department in the process of looking at Pilot project for the province.



*THANK YOU!*

- On behalf of Michelin Canada Inc., thank you to the Task Force membership for the significant regulatory changes to allow load parity for NGWBS tires.
- Michelin would like to continue to work in partnership with the provinces to resolve any outstanding issues
- **Our goals:**
  - A national corridor for NGWBS tires
  - Adding 8,500kg to the MOU







Jeff MacLean  
President

Michelin North America (Canada) Inc.  
Telephone: (902)-753-1279  
e-mail: [Jeff.MacLean@michelin.com](mailto:Jeff.MacLean@michelin.com)

Thank you!  
Merci!