



## Additional prescriptions to regulation UN 117

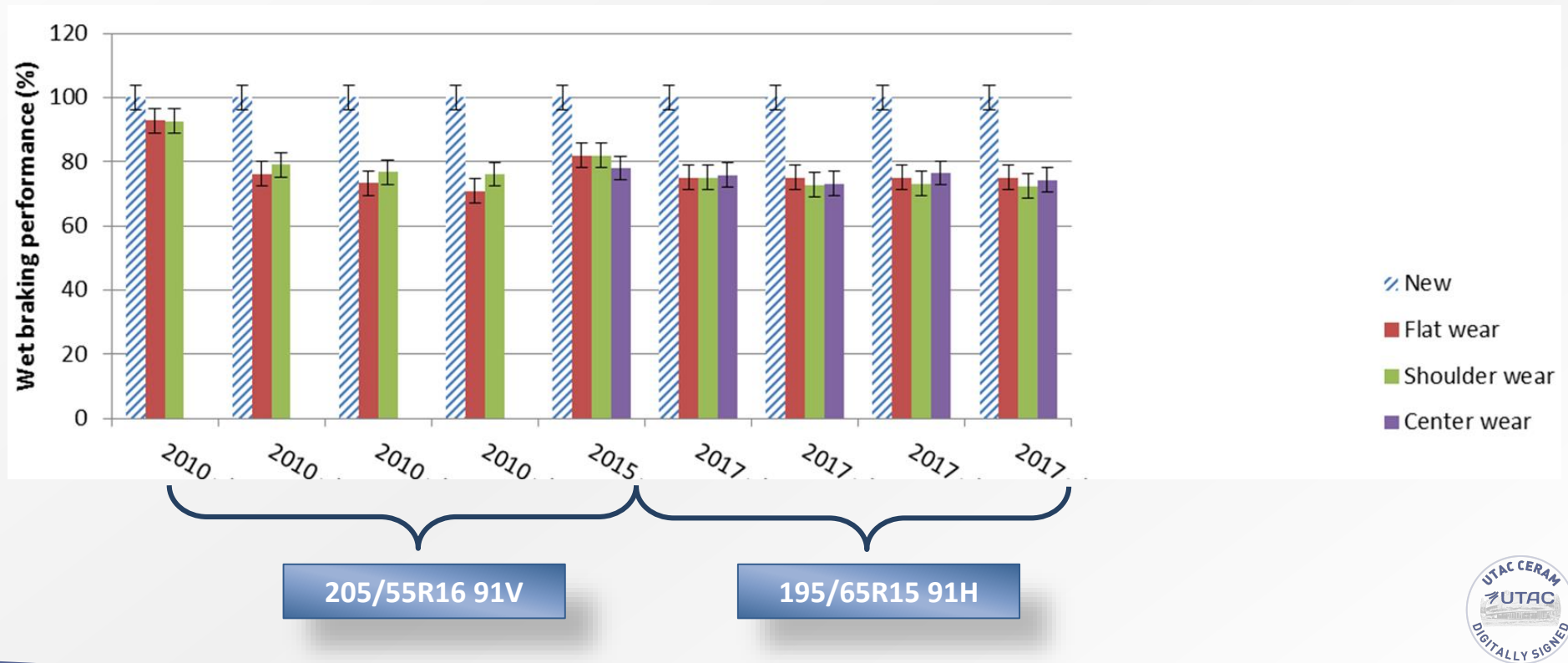
worn tyre for wet-grip performances  
Ongoing tests - FRANCE



# Impact of the Buffing profiles

## 9 tyres tested

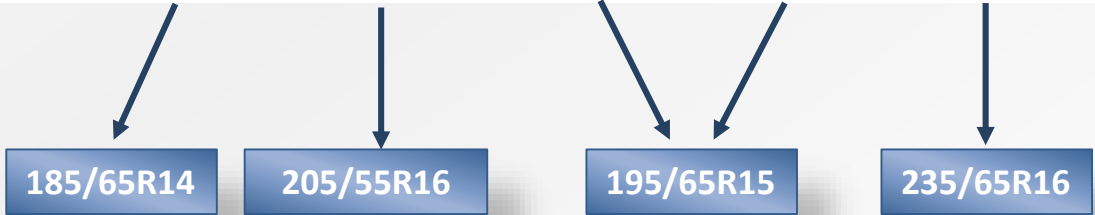
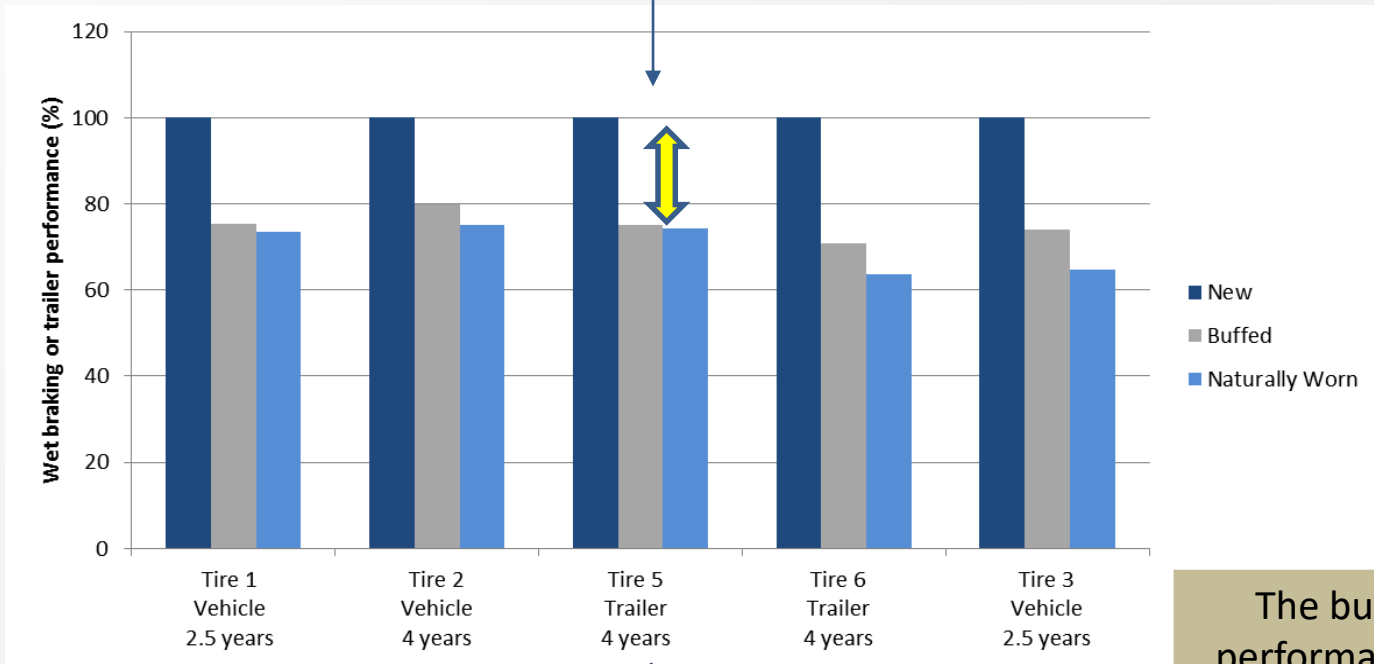
New tyres state VS wear tyres profiles under 2 sizes.



# Is this method representative of a natural wear ?

➤ Detailed with tyre size:

Loss of braking performance of worn tyre (buffed or naturally worn) versus new tyre (%)



The buffed tyre performance is very close to the naturally worn tyre



# Life test Study: New tyres VS Worn tyres (France)

## Program:

- 2 tyres sizes (2 vehicles),
- for each vehicles 2 tyres references (Premium & Quality)

## 3 steps :

- Tests according to R117 as New states (trailer method)
- Wear on vehicle for up to 20 000 km per tyres (total of 4 Tyres references)
- Tests according to R117 as « Worn states ». For WG 2 tests proceed:
  - Brand New ASTM16 & test with a worn ASTM16 according to candidates states. (trailer method)

## Study Schedule 2019



# Life test Study: New tyres VS Worn tyres (France)

## Tyres Selection:

- Vehicle A: 195/55R20 95H - Tall & narrow (1 Premium tyre & 1 Quality tyre)
- Vehicle B: 235/50R18 101V - SUV & Allroad (1 Premium tyre & 1 Quality tyre)

## Status:

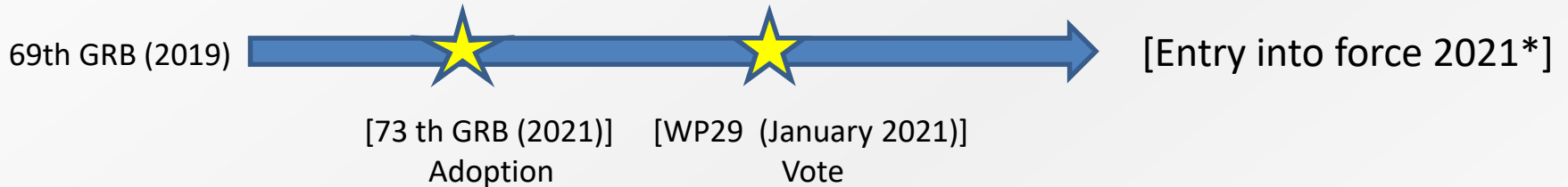
Study Schedule march 2019 to january 2020		Tread-depth measurements (New)	WG test "as new" (Trailer Method)	Wear life 20 000km (on vehicle)	WG test "as worn 20 000km" (Trailer Method)	Tread-depth measurements (Worn)
Vehicle A <b>Tall &amp; Narrow</b>	Candidate #1 195/55R20 - 95H	x	x	x	October 2019	December 2019
	Candidate #2  195/55R20 - 95H	x	x	From mid-Sept.	December 2019	December 2019
Vehicle B <b>SUV &amp; All Road</b>	Candidate #3 235/50R18 - 101V	x	x	x	October 2019	December 2019
	Candidate #4 235/50R18 - 101V	x	x	From mid-Sept.	December 2019	December 2019
SRTT16"	New	x	x	N/A		
	Worn (Buffed)			N/A	From October 2019	December 2019
Done						
In progress						
Next step						



# When could we apply the new amendment of regulation UN 117?

1. From the date of entry into force of the new amendment:

Voluntary application (upon the wish of the tire manufacturer):



2. Mandatory date for **new type of tyre (GSR2)** upon the request of CP's :

[ 1<sup>st</sup> September 2026\*] – **European Safety Regulation : mid 2024**

3. Mandatory date for **new tyre** upon the request of CP's :

[ 1<sup>st</sup> September 2029\*] – **European Safety Regulation : mid 2026**

\* ECE/trans/wp29/grb/2019/6



THANK YOU FOR YOUR ATTENTION

