

# IWG for Wet Grip on Worn Tyres (WGWT)

Status report to 70<sup>th</sup> GRBP  
(September 2019)

# Background and roles

- Background
  - During last GRBP (69th), France proposed a wet adhesion requirement for C1 tyres in worn state
  - GRBP agreed to create an IWG on Wet Grip of Worn Tyres
  - March-2019 WP29 approved the WGWT IWG Terms of Reference
- Roles
  - Chair: France (E. Collot)
  - Co-chair: European Commission (A. Vosinis)
  - Secretary: ETRTO (N. de Mahieu)
- IWG WGWT webpage:  
<https://wiki.unece.org/pages/viewpage.action?pageId=80380967>

# Schedule and time constraints

- Purpose is to have
  - An Informal document for GRBP 72<sup>nd</sup> session (September 2020)
  - A Working Document for adoption in GRBP 73<sup>rd</sup> session (January 2021)
- Regional requirement
  - European Union: European Global Safety Regulation 2 (estimated to be published in November 2019)

*“[...] the Commission will support the development of appropriate testing protocols [for tyre in worn condition] in the context of the United Nations world forum for the harmonization of vehicle regulations. If this process is however not finalised by July 2023, the Commission intends to propose EU legislation that specifically covers testing of tyres in worn condition.”*

# Meetings

- The group met already on:
  - 2-3 May 2019 in Brussels
  - 17 July 2019 web conference
  - 10-11 September 2019 in Geneva
- Planned next meetings:
  - October 18th, 2019 (Brussels and webconference)
  - January 27th and 28th , 2020 in Geneva.

# Mandate: Wet Grip on Worn Tyre IWG

- Terms of reference: GRB-69-23
- To guarantee an adequate safety level up to the minimum legal tread depth of the tyre
  - Assessment of wet grip performance of tyres in worn state is proposed
  - Additionally it will increase the environmental protection
- Aim is to follow the current UN R117 and to add new requirements on wet grip for worn tyres according to the results of the IWG work.
  - UN Regulation N° 117
  - for pneumatic tyres of class C1

# Status and next step of the IWG WGWT

- Ongoing discussion on the
  - Definition of worn tyres in terms of
    - Tread depth → Agreement
    - Wear profile → Agreement on the concept, additional comments to be considered
    - Ageing → Agreement on the natural worn tyre age to be investigated in the test campaign
    - Roughness → verification of the IWG WGWT defined roughness during the test campaign
  - Wet grip test procedure
    - The IWG agreed to use the future wet grip test procedure for Passenger car tyres (ISO DIS 23671)
    - Parameters to be assessed:
      - water depth tolerance and test dispersion
      - SRTT new/worn
      - Vehicle / Trailer
    - The open points will be defined in the IWG WGWT workplan.  
Workplan will be defined in the dedicated IWG meeting of 18 October
  - Limits: → to be considered in a further step. It will be based on the test campaign outcome

Thank you for your attention!