

# IWG for Wet Grip on Worn Tyres (WGWT)

## Status report to 73<sup>rd</sup> GRBP (January 2021)

# Background and roles

- Roles

- Chair: France
- Co-chair: European Commission
- Secretary: ETRTO

- IWG WGWT webpage:

<https://wiki.unece.org/pages/viewpage.action?pageId=80380967>

# Meetings and participants

- Meetings:

- 9<sup>th</sup> WGWT: 5-6 March (Webconference)
- 10<sup>th</sup> WGWT: 27 April (Webconference)
- 11<sup>th</sup> WGWT: 26 May (Webconference)
- 12<sup>th</sup> WGWT: 22 June (Webconference)
- 13<sup>th</sup> WGWT: 20 July (Webconference)
- 14<sup>th</sup> WGWT: 10 September (Webconference)
- 15<sup>th</sup> WGWT: 22 October (Webconference)
- 16<sup>th</sup> WGWT: 19 November (Webconference)
- 17<sup>th</sup> WGWT: 19 January 2021 (Webconference)

- Participants:

- CP: China, European Commission, France, Germany, Netherlands, Japan, Spain, India, United Kingdom.
- NGOs: ETRTO, ITMA, JATMA, OICA, ITTAC

# Schedule and time constraints (1/2)

- Regional requirement:
  - European Union: European Global Safety Regulation (EU 2019/2144)

| Subject                                       | Regulatory acts  | Additional specific technical provisions  | M | M | M | N | N | N | O | O | O | S | Component |
|---|--|---|---|---|---|---|---|---|---|---|---|---|-----------|
|   |  |   | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 4 |           |
| C10 Tyre safety and environmental performance | UN Regulation No 30<br>UN Regulation No 54<br>UN Regulation No 117 | A test procedure for worn tyres shall also be ensured; the dates in note C apply. | X | X | X | X | X | X | X | X | X | X | A         |

- Note “C”:
- Date for refusal to grant EU type-approval: 7 July 2024
- Date for the prohibition of the registration of vehicles, as well as the placing on the market and entry into service of components and separate technical units: 7 July 2026

# Schedule and time constraints (2/2)

- Target is to have
  - A Working Document for adoption in GRBP 74<sup>th</sup> session (September 2021)\*
- \* Note: to match this target, the Working Document should be submitted by June 2021 when the test plan and analysis could be not fully completed. The Working Document could be then submitted in a 'draft' version to be amended in the same September 2021 GRBP session by an Informal Document.
- ECE/TRANS/WP.29/GRBP/2020/11 is the request from the IWG WGWT to extend the IWG mandate until September 2021.

# Objective: Wet Grip on Worn Tyre IWG

- Terms of reference:
  - GRB-69-23
  - Amendment agreed based on GRBP-70-03
  - Extension of mandate by ECE/TRANS/WP.29/GRBP/2020/11
- To consider:
  - Evaluation of the method for preparing a tyre to be tested in worn state
  - Definition of test conditions
  - Description of the test method
  - Data analysis and measurement system analysis
  - Threshold definition
- 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

- Definition of worn tyres and buffing procedure (proposal agreed)
  - Parameters (remaining tread depth, roughness, wear profile) to be assessed by the test campaign.
- Wet grip test procedure
  - IWG agreed to refer to the future Wet Grip test procedure (ECE/TRANS/WP.29/GRBP/2020/16)
  - Parameters (reference tyre, test conditions, tyre sizes, ...) to be assessed by the test campaign.
- Test campaign
  - agreed and shared within the IWG
  - Around 900 tyres to be tested representing the C1 market.

# Status and next step of the IWG WGWT

- Work progress since last GRBP
  - Logistics are completed
  - Buffing process is completed
  - Testing in ongoing and in line with the workplan  
Completion expected beginning Q2
  - Drafting sub-group created
    - On behalf of the IWG
    - start in February
    - Members:
      - NGOs: ETRTO, ITMA, JATMA
      - FR, EC, China



# Target timeline

|  | 2019 |   |   | 2020 |   |   |   |   |   |   |   |   |   |   |   | 2021 |   |   |   |   |   |   |   |   |   |   |   | 2022 |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
|--|------|---|---|------|---|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
|  | O    | N | D | J    | F | M | A | M | J | J | A | S | O | N | D | J    | F | M | A | M | J | J | A | S | O | N | D | J    | F | M | A | M | J | J | A | S | O | N | D |  |  |  |  |
| 1.a) Define candidates list for screening test plan                  |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 1.b) Define candidates list for analytical test plans                |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 1.c) Built a test plan matrix: candidate x test method x participant |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 2.a) Buy tires - and deliver them to buffing centers                 |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 2.b) Deliver SRTTs them to participants                              |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 2.c) Deliver SRTTs to buffing centers                                |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 3) Buff tires  |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 4) Test tires  |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 5) Share results & analyze   |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 6) Drafting the proposal   |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Status report for Jan-2021 GRBP                                      |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Working document submittal for Sept-2021 GRBP                        |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Informal document supplementing the working document                 |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| WP29 adoption  |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Entry into force   |      |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |

Thank you for your attention!