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Annex 6 Test procedure for measuring rolling resistance



- Basically, 4 measurement variants can be considered:
 - Force
 - Torque
 - Deceleration
 - Power
 - Historical measurements needed by manufacturers to keep a reference.
 - Theoritically, technically equivalent

Alignment



- UNECE Regulation process: Use of Technical Services
 - Technical service shall comply with ISO/IEC 17025 standard.
 - ISO/IEC 17025 standard requests:
 - « 5.9 Assuring the quality of test and calibration results

. . .

• b) participation in interlaboratory comparison or proficiency-testing programmes;

. . .

 Definition of a virtual reference as a result of a combination of different sources instead of one unique reference



- Need for homogeneous results
 - => need to control the dispersion in each laboratory (intra lab requirement)
 - ⇒need to control the dispersion between the different laboratories (inter lab requirement)
- Tool : Proficiency testing schemes (PTS)
- Reference: ISO/DIS 17043
 (FDIS publication expected by end of 2009)



PTS benefits:

- Continuous improvement of labs performance :
 - Reduction of within labs dispersion
 - Reduction of inter labs dispersion
- Definition of assigned (reference) values
- Correction when necessary



- One PTS per year (or every two years) with participation of :
 - Technical services
 - Other participants (tyre manufacturers, etc.)
- Establishement of the assigned values from the results of the technical services
- Calculation of a correction factor for every participant



Example who tests what?

	M1	/	M10	
TS1	X	X	X	Defintion of
/	X	X	X	assigned values
TS10	X	X	X	
M1	X			Alignment for
/		X		each manufacturer
M10			X	

TS: Technical Service M: Manufacturer X: « tyre number and type »