

TPMS Importance – Benefit-Driven Legislation

- ▶ **Safety & Emissions** benefits of TPMS have resulted in legislation in the U.S., Europe and South Korea mandating TPMS in all new vehicles. China, Japan, and India are expected to follow.
- ▶ Certain U.S. states and European countries also mandate a working TPMS system as part of their vehicle inspection testing.

TPMS Legislation Overview

United States



- ▶ **TREAD Act**
- ▶ Passed by Congress in 2000 in response to fatal accidents caused by defective Firestone tires
- ▶ Primary purpose: **Safety**
- ▶ Phase-in 20/70/100% (100% since September 2007)
- ▶ Notification whenever pressure drops **25%** below the recommended **cold** inflation pressure
- ▶ Detection time: **20 minutes**

Europe



- ▶ **UNECE 64**
- ▶ Implementation will start Nov 1, 2012 for vehicles “Type approved” after this date, and Nov. 1, 2014 for all new vehicles
- ▶ Primary purpose: **Environmental**
- ▶ Notification whenever pressure drops **20%** below the recommended **warm** inflation pressure
- ▶ Detection time: **10 minutes** (one wheel) / 60 minutes (more than one wheel)
- ▶ Winter wheel legislation also passed in several European countries

South Korea



- ▶ In March 2011, the South Korean Ministry of Land, Transport and Maritime Affairs revised the South Korea Motor Vehicle Safety Standards to mandate TPMS on all vehicles with a gross vehicle weight of 4.5 metric tons (9,921 lbs) or less
- ▶ Timing two months behind that of Europe, with the phase-in beginning in January 2013 and completed by January 2015
- ▶ Expected to mirror UNECE 64