GTB Working Group
Signal Lighting

Status Report to GRE-71
(April 2014)
Demands and Trends for Signal Lighting

**Value**
- Increased Safety and Convenience
- Improved Lighting Performance
- Added Functionality
- Styling Enhancement
- Brand Differentiation

**Year of Availability**
- 1996
- 1998
- 2002
- 2006
- 2010
- 2015+

**Improved Regulations**
- DRLs mandatory
- Emergency Stop Signal
- planar light guides
- apparent surface
- Y-lamps

**Improved Performance/Safety**
- light guide design
- variable intensity control
- full LED rear lighting

**Improved Appearance**
- multi color lens
- faceted reflectors

**Reduced Weight**
- Reduced Package

**Improved Styling, Performance, Functionality**
- Car2Car
- Cameras
- Sensors
- adaptive lighting

**added functionality, full light signalling systems**
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„The Magic Design Triangle“
Tension of Interests
Status Report for Signal Lighting
LED Application

Are there special needs for the application of LED, either

- standardized LED (Reg. 128) or

- Retrofit Lightsources (Reg. 37?) ----- WGLS
Status Report for Signal Lighting
Adaptive DRL

What is an Adaptive DRL?

It is a daytime running lamp which adapts its intensity to the ambient light.

Why a Smart DRL?

Some DRLs are regarded as too bright in low ambient light conditions.
Some DRLs are regarded as too dim in bright ambient light conditions.

Smart DRL might generate a broader public acceptance.

Smart DRL may reduce fuel consumption due to a delayed headlighting use.
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Thank you for your attention