

Outcome SLR-22

Shenzhen (CN), 29 Jan – 1 Feb 2018

Installation of Functions

All functions shall not be detrimental for road safety (although they may not necessarily improve road safety, e.g. logo lights)

List of functions for road safety:

- **Mandatory functions** (including Autonomous mode ON/OFF and AV's intention)
- **Optional functions**
 - **Could improve safety** (FFL, cornering, AFS, etc.)
 - **Comfort lamp** (exterior courtesy lamp, logo, signature lamps, etc.)

Every technical solution is allowed, provided that it fulfils certain requirements: switching conditions, colour, look, performance requirements / boundaries, etc.

STAGE 2 = SIMPLIFIED REGULATIONS

with technology neutral and performance based requirements

STEP 1

What realistically
can be achieved by the
end of 2019



Improve the simplified UN **device Regulations** resulting from Stage 1 (i.e. LSD, RID and RRD) with regards to:

- technology neutral
- performance based requirements
- objectively testable provisions

Align all changes with the progress of the corresponding simplified Chinese GB Standards

Minor amendments to installation will be necessary

STEP 2

What will be delivered afterwards (not because less important but because requiring more time!)

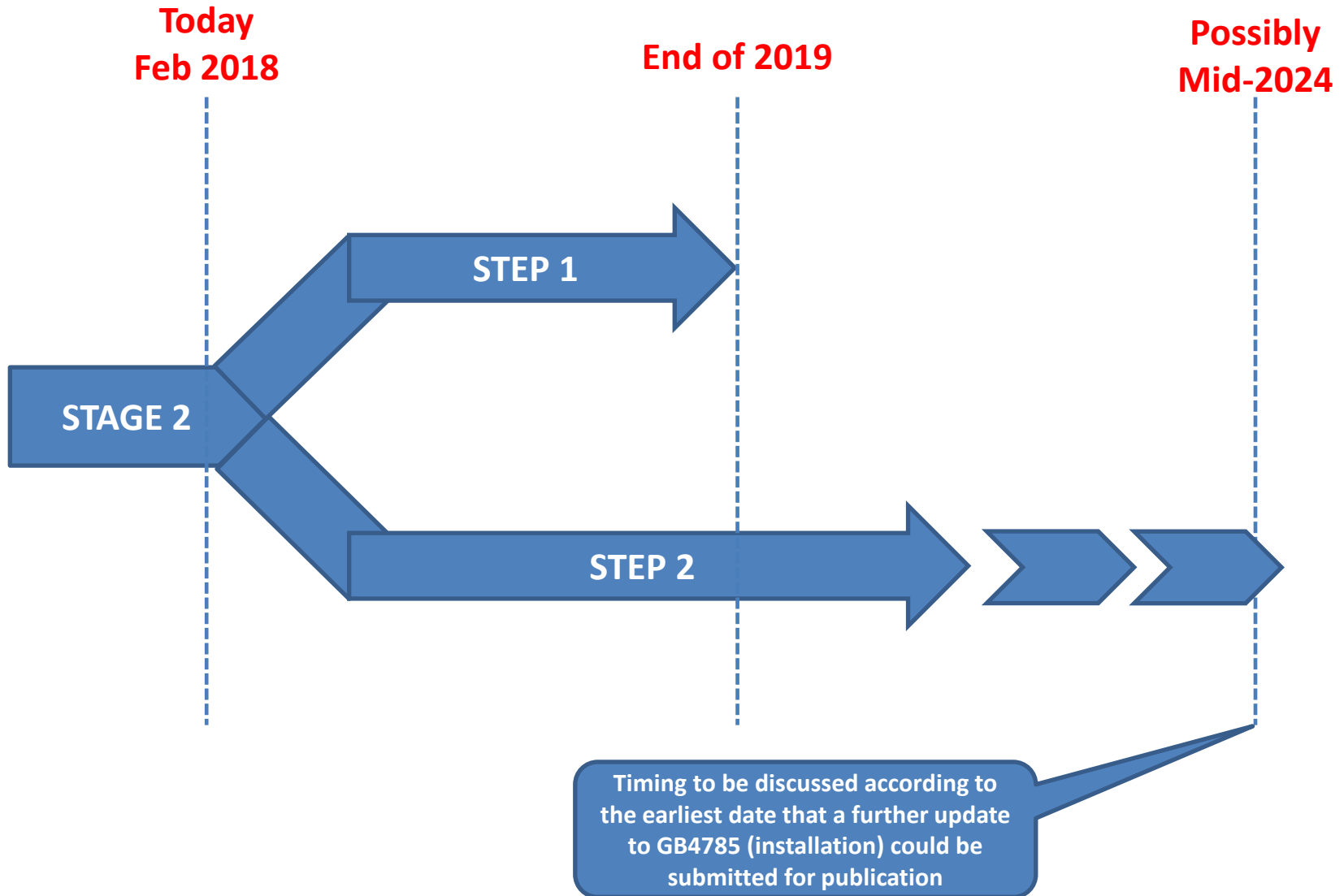


Simplify UN **installation Regulations** (48, 53, 74, 86) and harmonise with corresponding Chinese GB Standards.

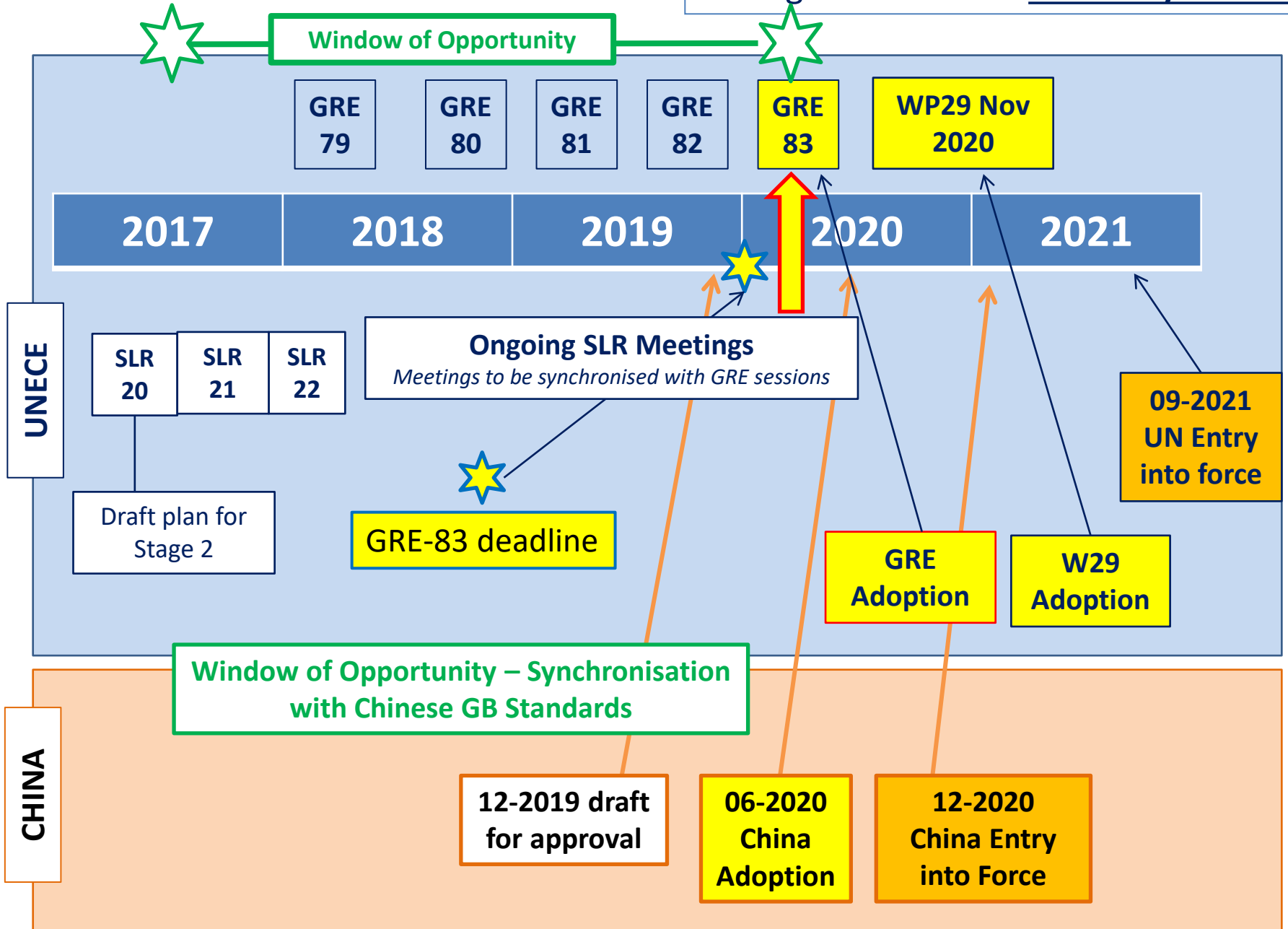
Need to update SLR Terms of References!

Timeline for Stage 2

- Step 1 and Step 2 -



Timing Deadlines for **STAGE 2 / STEP 1**



GRE IWG “SLR”

Stage 2 / Step 1 – Alignment of Regulations (RID)

UN Regulations

- RID performance in the context of speed
- requirements to AFS classes / ADB
- new glare requirements
- Aligned headlight photometry for all light sources

Source: SLR-22-01

DEADLINE 12/19 (04/20)

GB Standards

- introduce minimum requirements for RID
- integrate AFS / ADB as beam variants
- independant of light source used
- a new photometry for headlights
- delete front fog lamp class B
- align cornering lamp with new RID Regulation
- install two classes of low beam (speed)

Source: SLR-22-03

DEADLINE 12/19 (06/20)

GRE IWG “SLR”

Stage 2 / Step 1 – Alignment of Regulations (LSD)

UN Regulations

- review photometric requirements
- review cat 5 and 6 direction indicators
- apparent surface of DRL

Source: SLR-22-01

DEADLINE 12/19 (04/20)

GB Standards

- remove DI cat 3 and 4
- remove SM2 (SM1 only)
- unify Position Lamp geometric and photometric requirements
- redefine position of measuring points of license plate illuminating devices
- align vertical photometry requirements of cat. 5 and 6 DI
- reduce minimum value for RFL to 100 cd
- redefine light distribution of Reversing Lamp
- align photometry of DRL / DI / Position Lamp and Stop Lamp
- address glare of SL (minimum area or luminance)
- define requirements for decorative lamps

Source: SLR-22-03

DEADLINE 12/19 (06/20)

GRE IWG “SLR”

Stage 2 / Step 1 – Alignment of Regulations (RRD)

UN Regulations

- unify test methods and test equipment environment: harmonize test methods, [but different requirements]
- Modification of photometric performance requirements to be considered
- Adjust some of the physical tests for all devices

Source: SLR-22-01

DEADLINE 12/19 (04/20)

GB Standards

- unify test methods and test equipment environment: harmonize test methods, but different requirements
- Adapt photometric performance requirements of IVA Class RR to the retro reflective marker
- add marker for explosive substance and chemical toxic substance
- increase the photometric performance requirements of Class II (to be adjusted to Class C of the new RRD Regulation)
- reduce options for rear marking plates
- Adjust some of the physical tests for all devices

Source: SLR-22-03

DEADLINE 12/19 (06/20)

GRE IWG “SLR”

Stage 2 / Step 2 – Harmonisation of Regulations (Installation)

UN Regulations

- Size of apparent surface of DRL
- single lamp definition
- definition of apparent surface
- red light to the front (white light rear)
- reconsider installation requirements
- vertical inclination of the cut-off
- „standard“ vehicle definition

Source: SLR-22-01

NO DEADLINE

GB Standards

SAC/TC 114/SC 21 plans to start an “ad-hoc” activity in cooperation with GTB to develop text for the next release of GB4785. This will also be synchronized with the Stage 2 Step 2 activity of GRE IWG-SLR.

This activity will be started immediately within GTB to develop initial proposals that will be subsequently elaborated by IWG-SLR.

NOT CURRENTLY IN SCOPE

GRE IWG “SLR”

Stage 2 / Step 2 – Harmonisation of Regulations (Special items)

UN Regulations

- Autonomous driving needs
- projection systems on the road
- functions, not devices (system approach)

Source: SLR-22-01

NO DEADLINE

GB Standards

NOT CURRENTLY IN SCOPE