

# **Simplification of the UN Lighting and Light-signalling Regulations**

**Progress report on the Stage 1 and Stage 2  
and harmonization with  
Chinese simplification of GB standards**

# Workload and meeting pace

## 23 meetings held until now:

- |       |   |        |                                      |
|-------|---|--------|--------------------------------------|
| I.    | 11 September 2014 in Brussels (BE)          | XII.   | 5-7 September 2016 in Brussels (BE)  |
| II.   | 23 October 2014 in Geneva (CH)              | XIII.  | 5-7 October 2016 in Brussels (BE)    |
| III.  | 14 January 2015 in Brussels (BE)            | XIV.   | 5-7 December 2016 in Brussels (BE)   |
| IV.   | 13 April 2015 in Geneva (CH)                | XV.    | 21-23 February 2017 in Brussels (BE) |
| V.    | 13 October 2015 in Brussels (BE)            | XVI.   | 22-24 March 2017 in Brussels (BE)    |
| VI.   | 5-6 November 2015 in Brussels (BE)          | XVII.  | 16-18 May 2017 in Tokyo (JP)         |
| VII.  | 15-16 December 2015 in Brussels (BE)        | XVIII. | 13-15 June 2017 in Brussels (BE)     |
| VIII. | 13-14 January 2016 in Brussels (BE)         | XIX.   | 12-14 July 2017 in Brussels (BE)     |
| IX.   | 29 February & 1 March 2016 in Brussels (BE) | XX.    | 4-6 October 2017 in Brussels (BE)    |
| X.    | 14-15 April 2016 in Brussels (BE)           | XXI.   | 18-21 December 2017 in Brussels (BE) |
| XI.   | 9-10 June 2016 in Brussels (BE)             | XXII.  | 29 Jan / 1 Feb 2018 in Shenzhen (CN) |
|       |   | XXIII. | 4-6 April 2018 in Brussels (BE)      |

## Next meetings:

- SLR-24** on 30 May / 1 June 2018 in Brussels (BE)  
**SLR-25** on 24-26 September 2018 in Brussels (BE)

# Simplification to be delivered in two stages

## STAGE 1

“Editorial simplification”

**REDUCE 41 UN REGULATIONS TO  
14 + 1 RESOLUTION**



**Provide a structure that limits to a minimum the number of parallel amendments** necessary to achieve a regulatory change

**Reduce the number of active/non-frozen regulations**

**Reduce the administrative burden (caused by maintenance of Regulations)** on the Contracting Parties, the UNECE secretariat (and associated UN services) and the affected industrial sector

## STAGE 2

“Performance based / Technology neutral”

**REWRITE THE NEW REGULATIONS WITH UPDATED PERFORMANCE BASED TECHNICAL REQUIREMENTS SUITABLE FOR THE FUTURE**



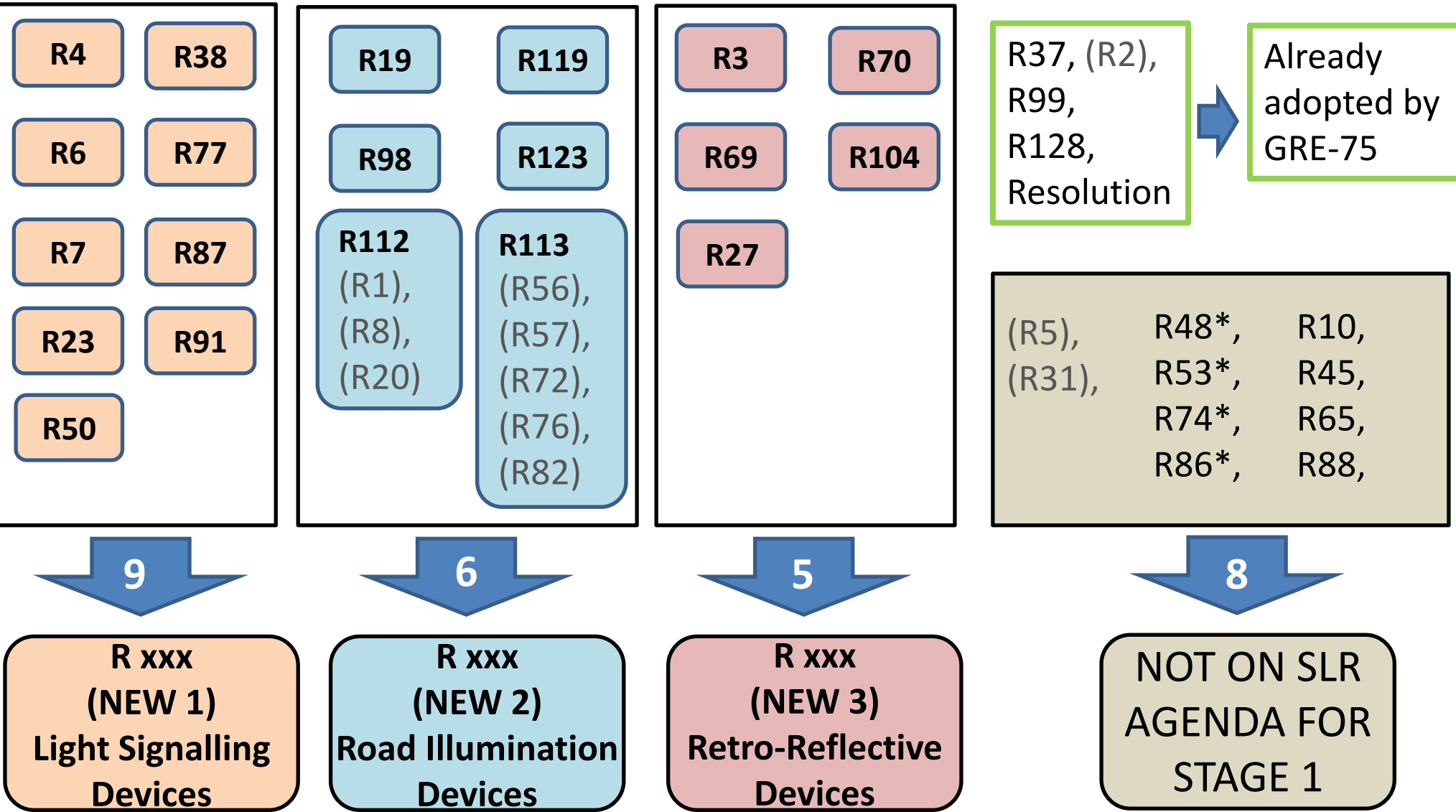
Reduce ambiguity in the provisions to provide **consistent interpretation**

Define the essential requirements in **performance (technology neutral) terms** to provide opportunities for innovation

Determine **whether the current regulatory text presents barriers to innovation and whether safety considerations are addressed**

Develop, as far as possible, **performance-based and technology-neutral requirements** to ensure freedom for technical innovation within a framework of safety principles

# GRE Regulations after Stage 1 of simplification



\* Definitions and other minor editorial adjustments / synchronisation will be addressed  
 Regulations in parenthesis are frozen already.

# SLR "Stage 1"

## The complete package

### NEW SIMPLIFIED UN REGULATIONS

- Light Signalling Devices (LSD) → (GRE/2018/02)
  - Road Illumination Devices (RID) → (GRE/2018/03)
  - Retro-Reflective Devices (RRD) → (GRE/2018/04)
- + GRE-79-10  
GRE-79-14

### Transitional Provisions

Coll. Amd. for Regs Nos. 3, 4, 6, 7, 19, 23, 27, 38, 50, 69, 70, 77, 87, 91, 98, 104, 112, 113, 119 and 123  
(GRE/2018/11)

### UPDATED REFERENCES TO DEVICE REGS.

- R48, series 03, 04, 05 and 06 of amendments  
(GRE/2018/30, .../08, .../07, .../06)
  - R53, series 01 and 02 of amendments  
(GRE/2018/17, GRE/2018/15)
  - R74, series 01 of amendments  
(GRE/2018/14)
  - R86, series 00 and 01 of amendments  
(GRE/2018/10, GRE/2018/09)
- + GRE-79-13

### Reorganized and grouped definitions

R48-06, R53-02, R74-01, R86-01  
(GRE/2018/13, GRE-79-08, GRE-79-09, GRE/2018/12)

Use of "**Change Index**" and its definition

- R48-06 + Coll. Amd. for R53-02, R74-01 and R86-01  
(GRE/2018/16, GRE/2018/18, GRE-79-11, GRE-79-12)

**SLR “Stage 2”  
and harmonization with  
Chinese simplification of GB standards**

# CHINESE SIMPLIFICATION OF GB STANDARDS

- **GB 4599-2007** 汽车用灯丝灯泡前照灯  
Headlamp with filament lamps
  - **GB 21259-2007** 汽车用气体放电光源前照灯  
Headlamp with gas-discharge light sources
  - **GB 25991-2010** 汽车用LED前照灯  
Headlamp with LED/LED module(s)
  - **GB 4660-2016** 机动车用前雾灯配光性能  
Front fog lamps
- +
- **GB/T 30036-2013** 汽车用自适应前照明系统  
Adaptive Front-Lighting System for Motor Vehicle
  - **GB/T 30511-2014** 汽车用角灯配光性能  
Cornering lamps

## SIGNAL LIGHTING

- GB 11564-2008 机动车回复反射器 ( 对应于 ECE R3 )  
"Retro reflector device for motor vehicles"
- GB 19151-2003 机动车用三角警告牌 ( 对应于ECE R27 )  
"Warning triangles for motor vehicle"
- GB 23254-2009 货车及挂车 车身反光标识 ( 技术内容类似ECE R104 )  
"Retro-reflective markings for trucks and trailers"
- GB 25990-2010 车辆尾部标志板 ( 对应于ECE R69和ECE R70 )  
"Rear-marking plates for vehicles and their trailers"

## FRONT LIGHTING

标准号NO.	标准名称Name	UN ECE
GB 5920-XXXX	汽车及挂车前位灯、后位灯、示廓灯和制动灯配光性能	R7
GB 15235-2007	汽车及挂车倒车灯配光性能	R23
GB 11554-2008	机动车和挂车用后雾灯配光性能	R38
GB 17509-2008	汽车及挂车转向信号灯配光性能	R6
GB 18408-2015	汽车及挂车后牌照板照明装置配光性能	R4
GB 18409-2013	汽车驻车灯配光性能	R77
GB 18099-2013	机动车及挂车侧标志灯配光性能	R91
GB 23255-XXXX	汽车昼间行驶灯配光性能	R87
GB 13594-2009	特种车辆标志灯	----


## RETRO-REFLECTIVE DEVICES

# 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.



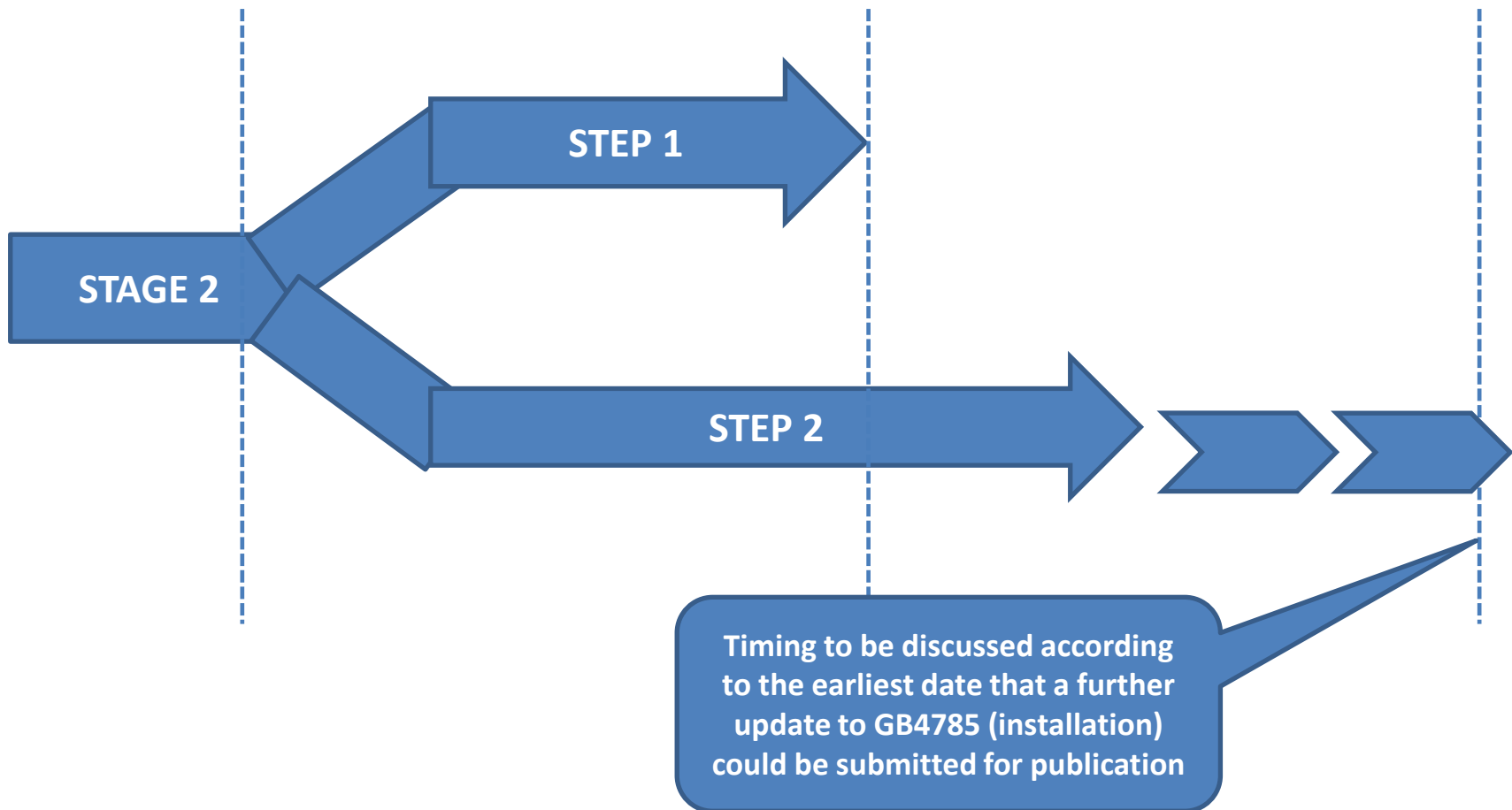
# Timeline for Stage 2

## - Step 1 and Step 2 -

Today  
March 2018

End of 2019

Possibly  
Mid-2024



# Synchronisation with Chinese GB Standards

