

Introduction to Homologation

22nd July 2020





Vehicle regulations focused on....

Product Oriented....

To improve vehicle safety

- Braking
- Steering effort
- Light signaling, reflective markings
- Cab strength, seat strength, wiping system, safety glass

To reduce environmental pollution

- Exhaust emission
- Noise emission

People oriented....

Road & traffic management

- Vehicle loading dimensions: length, width, height etc.,
- Vehicle weights: axle loads, combination weights
- Drive of vehicle (RHD)
- Vehicle markings: registration mark, NP colour
- PUC
- Traffic rules...

✚ In India, the Automotive Rules and Regulations are governed by

- **Motor Vehicles Act 1988 (MVA)**
- **Central Motor Vehicles rules 1989 (CMVR)**





Scope & Objective

Representing AL in SIAM, Ministry & BIS Meetings

- Preparation of comments on regulations in discussion with stakeholders in the organization.
- Preparation of New Regulations & amendment documents

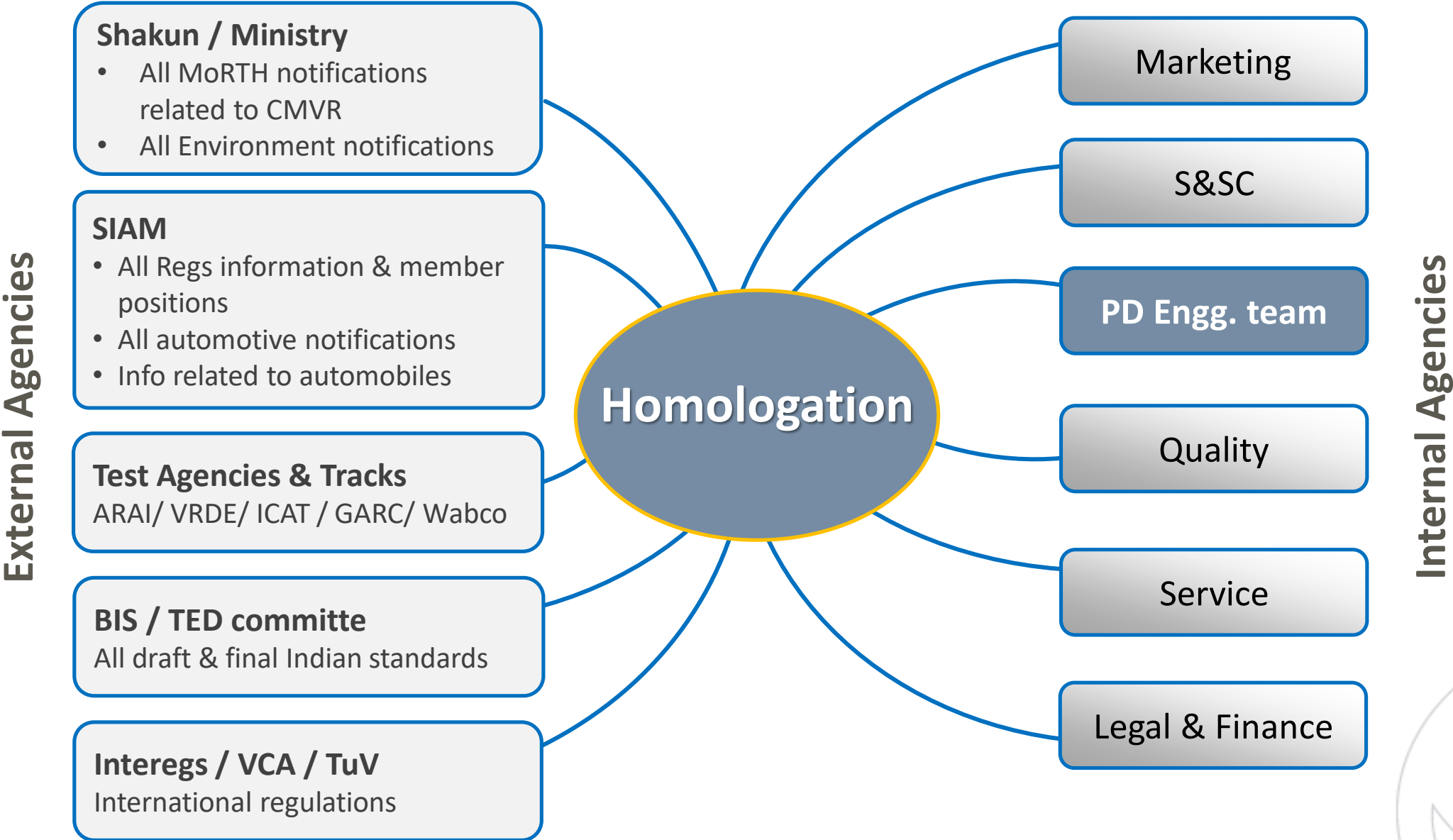
Impact assessment & Obtaining compliance certification for new regulations

- CMVR certificates
- Test reports

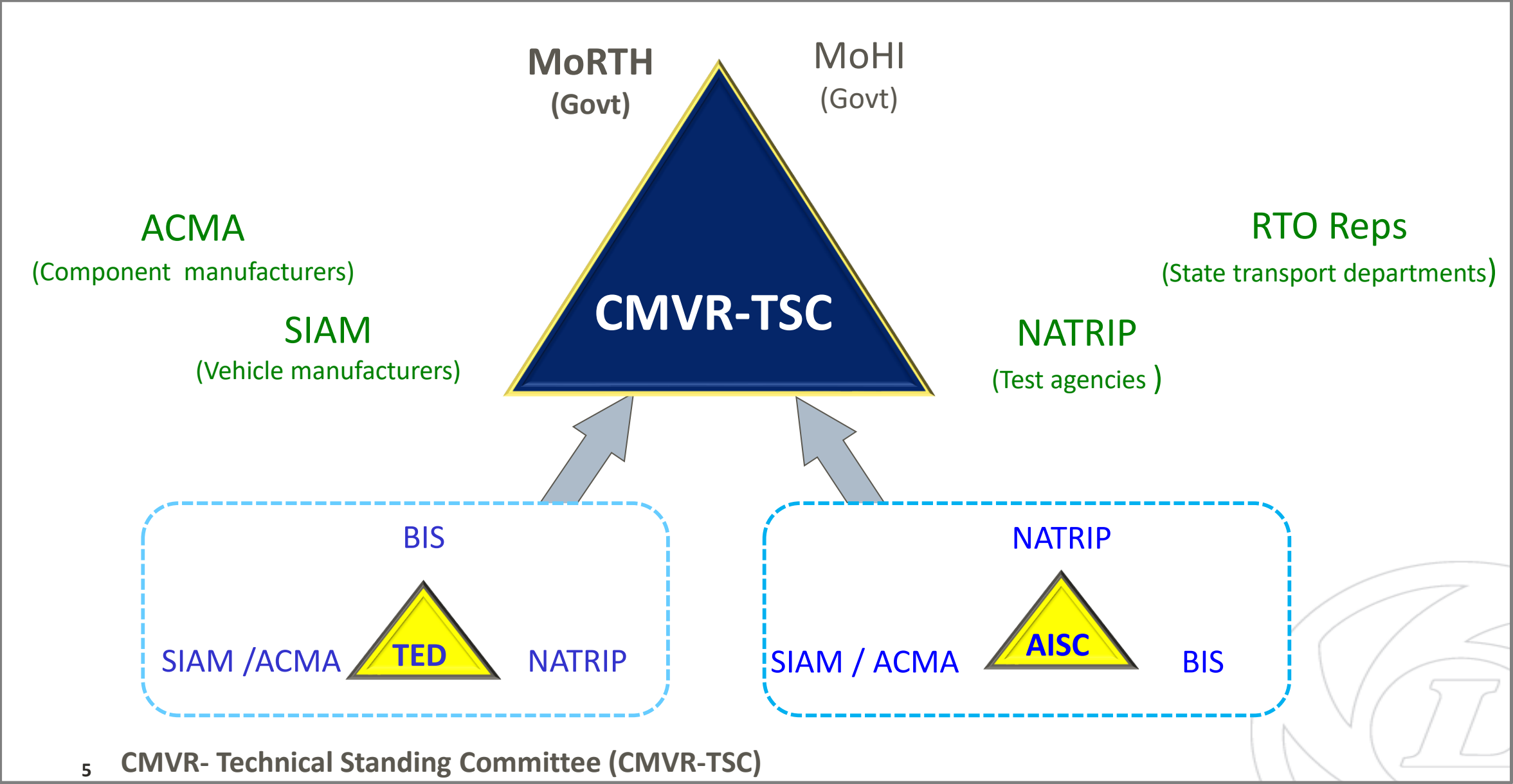
Regulation Information dissemination

- Regulation Information Note (RIN)
- Regs Mantra
- Indian Regulations Roadmap (IRRM)

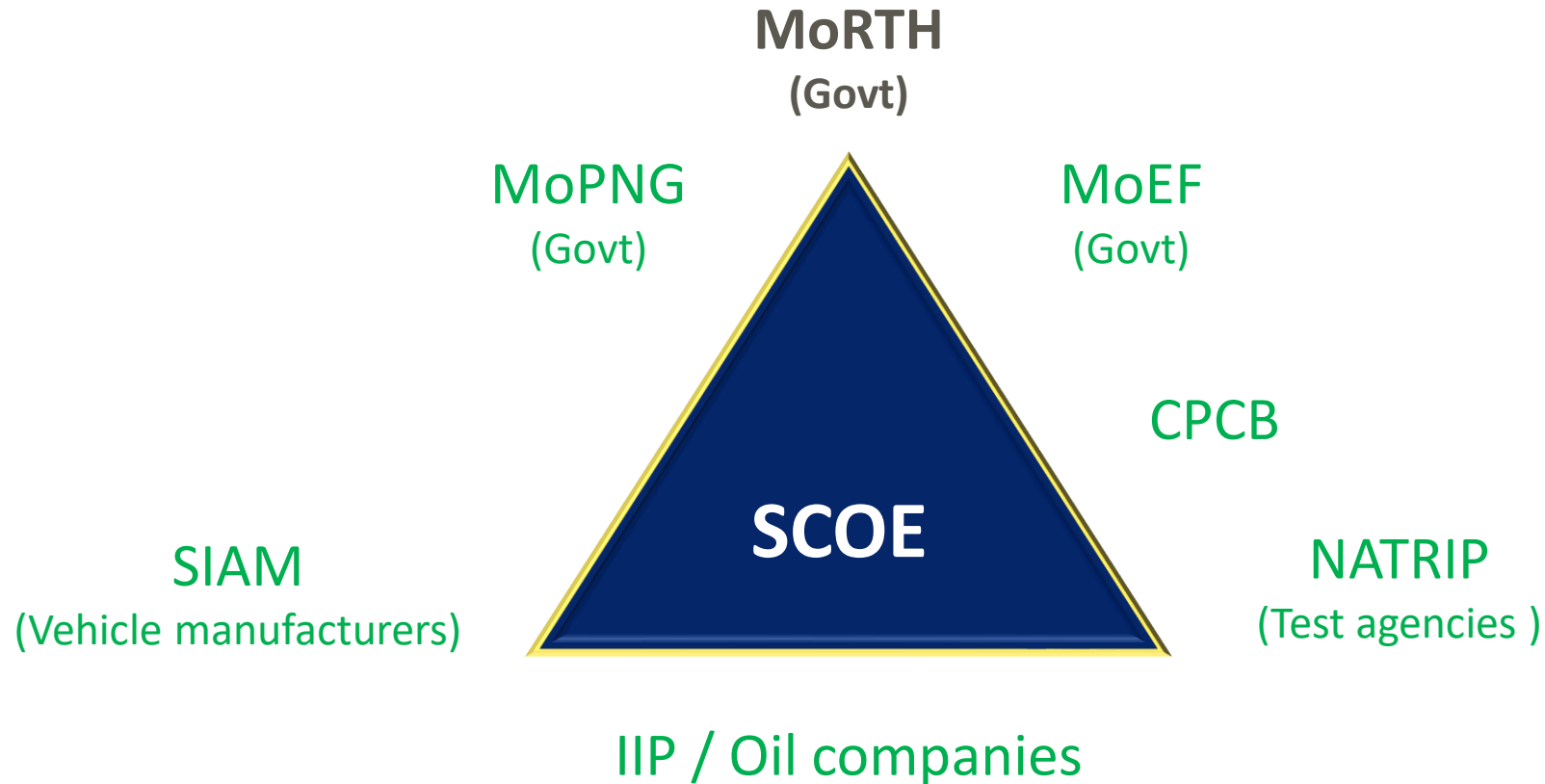




Rule making Committee - Safety Regulations



Rule making Committee - Emission Regulations

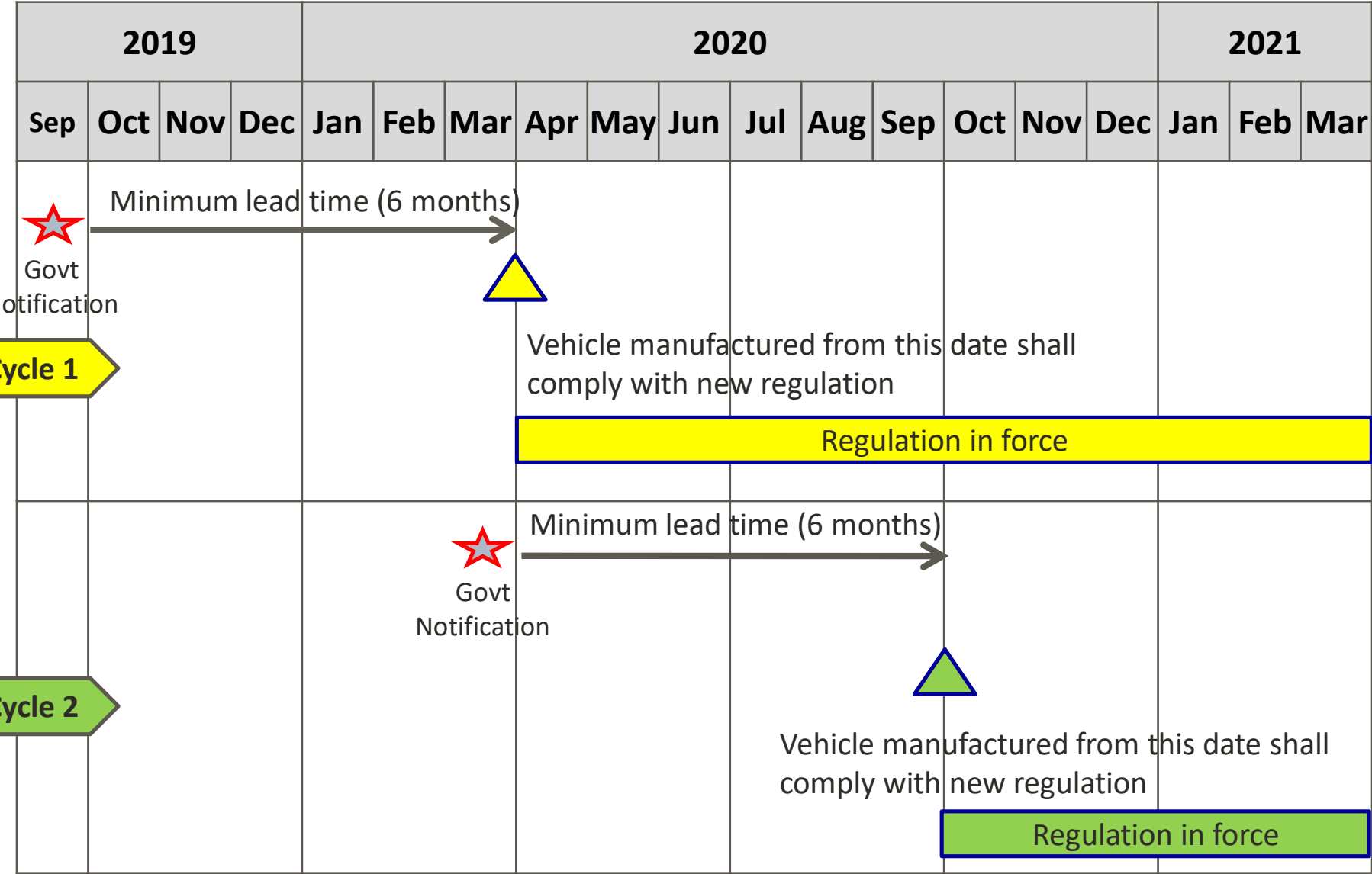


Standing Committee on Implementation of Emission Legislation (SCOPE)

Road map of Regulations & Implementation



Typical Illustration

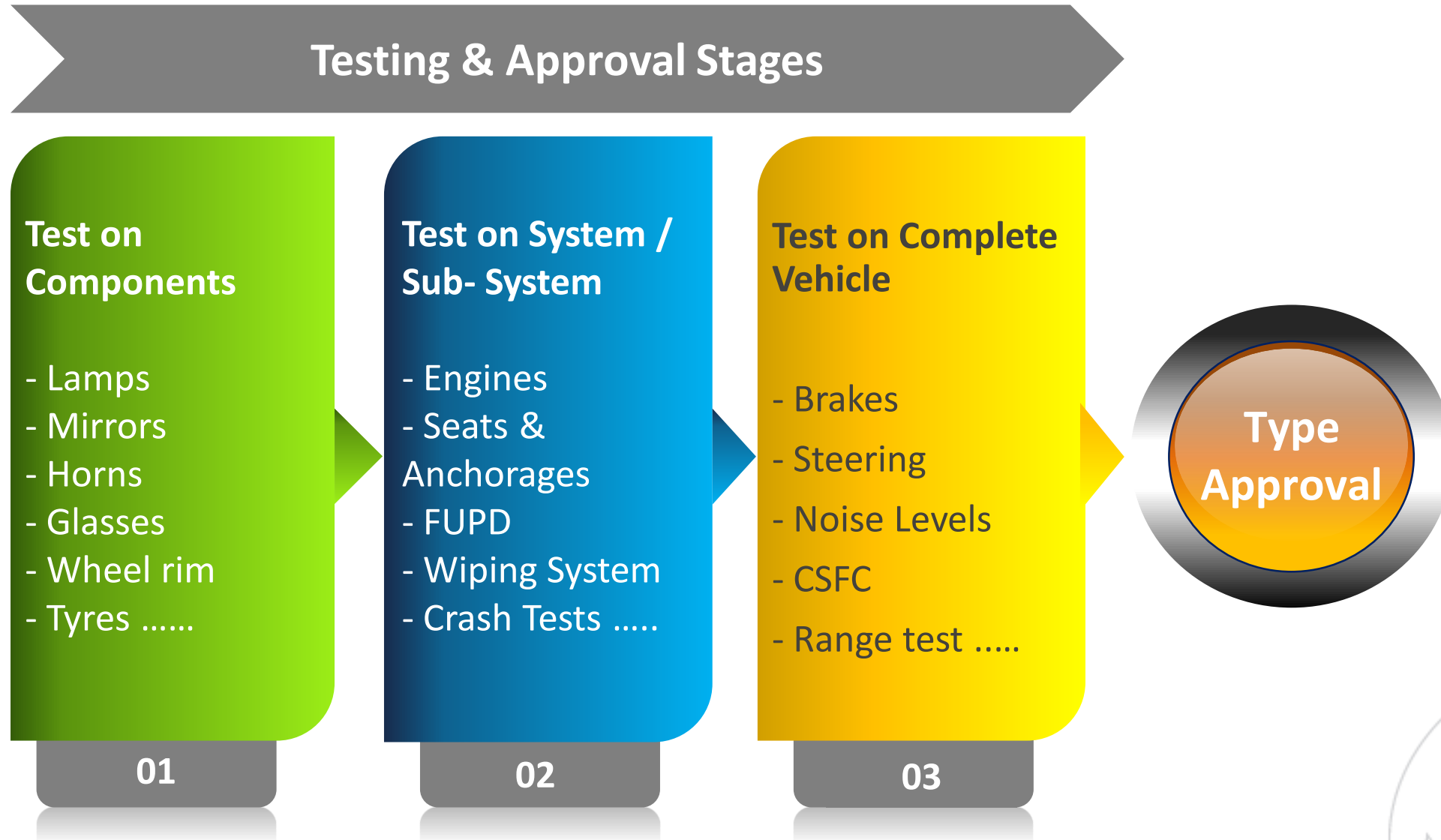


- Govt policy decision to align our vehicle regulations with that of Europe
- This alignment
 - To improve the safety levels in vehicles
 - Modernize the auto industry
 - To generate avenues for exports
- We have aligned to an extent of 85% of European regulations

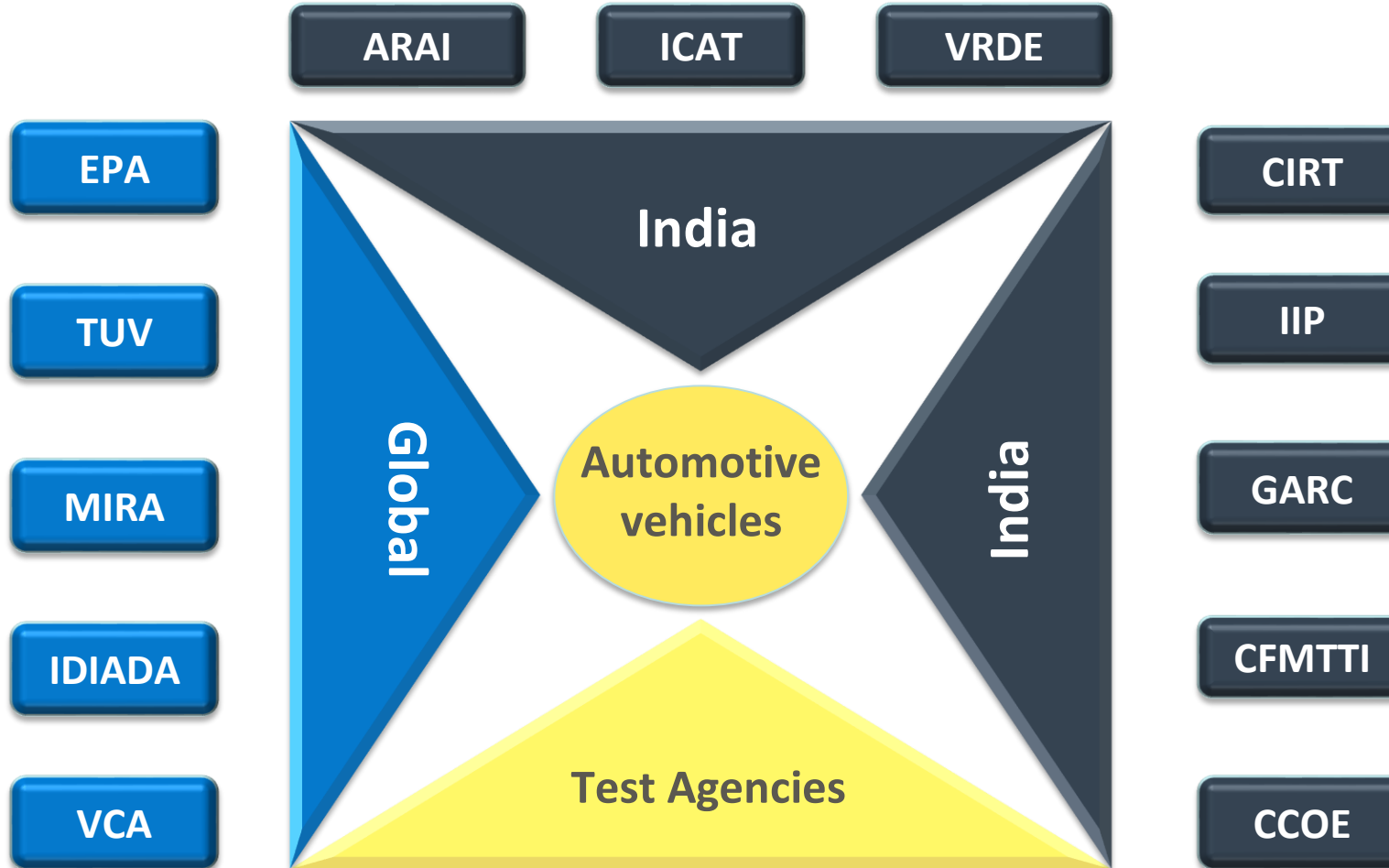




Stages of type approval



Test Agencies involved in type approval



ARAI
Progress through Research

The Automotive Research Association of India
(Research Institute of the Automotive Industry with Ministry of Heavy Industries & Public Enterprises, Govt. of India)

A A P A 0370 **Date: 15th July 2020**

CERTIFICATE

FOR COMPLIANCE TO THE CENTRAL MOTOR VEHICLES RULES.

1. In order to establish compliance to the provisions of CMVR, 1989, applicable as on date, documentary verification/ necessary testing was carried out, on the following dedicated CNG OE base model, submitted by the vehicle manufacturer referred below:

Documental Reference	Vehicle Manufacturer				
Current Certificate	M/s. Ashok Leyland Limited, North, Gandar Patel, Road, Galsdy, Chennai - 600 032. Plant: Housar Factory Unit II 77, Electronic Complex, Parandapalli, Hosur - 635 109				
Base Model	Type	Category	Seating Capacity (Including Driver)	GVW (kg)	Load Carrying Capacity (kg)
DOST CNG RLE	Good Chassis, fully built & manual steering with 60 + 60L CNG Cylinder Capacity	N1	2 Persons	2545	1077
1 DOST CNG RRE	Good chassis, fully built and Manual Steering with 60 + 60 + 28L CNG Cylinder Capacity		2 Persons	2545	1009
2 DOST CNG RLS	Good Chassis, fully built & power steering with 60 + 60L CNG Cylinder Capacity		2 Persons	2545	1072
3 DOST CNG RES	Good Chassis, fully built & Power steering with 60 + 60 + 28L CNG Cylinder Capacity		2 Persons	2545	1004
Dedicated CNG Engine		Engine Manufacturer			
Model	Power	cc	Plant : Hosur		
ALP153545	33 kW @ 5300 rpm	1478			

2. Brief technical specifications (No. ALICMVR/19-20/85 - Rev 00 DOST CNG) of the base model and its variant, as declared by the vehicle manufacturer, are enclosed with this certificate. Detailed specifications (No. ALICMVR/19-20/85 - Rev 00 DOST CNG) of the base model and its variant, are also separately issued to the vehicle manufacturer.

3. It is certified that the above base model and its variant comply with the provisions of the Central Motor Vehicles Rules, 1989, as amended up-to-date, including following requirements, (as detailed at ANNEXURE-I, II & III):

Emission Standards	Notification	Date	Effective From	Applicable CMVR	
CNG (with OE Fitment)	GSR 863 (E)	18.11.2001	19.04.2002	115B (B.8)	
	GSR 869 (E)	18.09.2005	18.09.2005		
Bharat Stage-VI	with OBD I	GSR 869 (E)	16.09.2016	01.04.2020	115 (16)(i)
Idle CO & NMHC	File Emission	GSR 881 (E)	26.11.2019	26.11.2019	115(2)(ii)

Other Standards	Notification	Date	Notification	Date	Effective From	Applicable CMVR
Passby Noise/ Brakes /Lamps/ Reflex Reflectors/ Category of vehicle/ Tyres/VIN Number/ Seats, Anchorages, Head Restraints and other Safety Components/ Safety Checks for use of CNG Fuels in internal combustion engines vehicles (as per AIS 028) and Indian Gas Cylinder Rules, 2016.	GSR 111(E)	16.02.2004	GSR 225(E)	26.03.2016	As per the dates notified	ANNEXURE- I / ANNEXURE- II / ANNEXURE- III
	SO 1385(E)	13.12.2004	GSR 230(E)	16.04.2016		
	GSR 689(E)	16.09.2005	SO 411(E)	26.02.2016		
	SO 1129(E)	12.07.2007	GSR 1463(E)	27.11.2017		
	GSR 784(E)	12.11.2008	GSR 493(E)	24.08.2016		
	SO 2714(E)	04.11.2010	SO 815(E)	05.12.2015		
	SO 436(E)	18.03.2012	GSR 1162(E)	16.12.2016		
	GSR 291(E)	24.04.2014	GSR 1226(E)	26.12.2016		
	GSR 634(E)	24.07.2014	GSR 414(E)	26.06.2020		
	SO 3467(E)	16.07.2016				
Maximum Safe Axle Weight			(As amended by SO 3881(E) dt. 06.06.2018)		16.07.2016	---

3. This Certificate is issued as per CMV Rule 125, to establish compliance with the Central Motor Vehicles Rules, 1989, and shall not be construed as a certificate of compliance to any rules other than those listed in ANNEXURE-I, II & III. Compliance to these rules has been verified based on the use of specific components/parts/assemblies etc. details of which are given in the detailed specifications duly endorsed by ARAI as mentioned at para. 1a above. It is the vehicle manufacturer's responsibility to ensure fitment of same components/parts/assemblies etc. before submission of the vehicle for registration.

4. This Certificate is issued for the above base model and its variants, subject to the conditions given at ANNEXURE-IV.

AUTHORISED SIGNATORY

(Signature)
A. A. BADUSHA
SR. DEPUTY DIRECTOR & HEAD
HOMOLOGATION MANAGEMENT, REGULATION &
VEHICLE EVALUATION, ARAI, PUNE.
Place of Issue: Pune

(Signature)
NEELKANTH V. MARATHE
OFFICIATING DIRECTOR

Page 1 of 5

An ISO 9001, ISO 14001, ISO 45001, ISO / IEC 27001 Certified and ISO/IEC17025 Accredited Organization

Regd. Office: S. No. 102, Vaidhatri, Off. Road, Kothrud, Tel.: +91-20-6762 1111, Fax: +91-20-6762 1104 | ARAI Homologation & Technology Centre (ARAI-HTC), Chennai



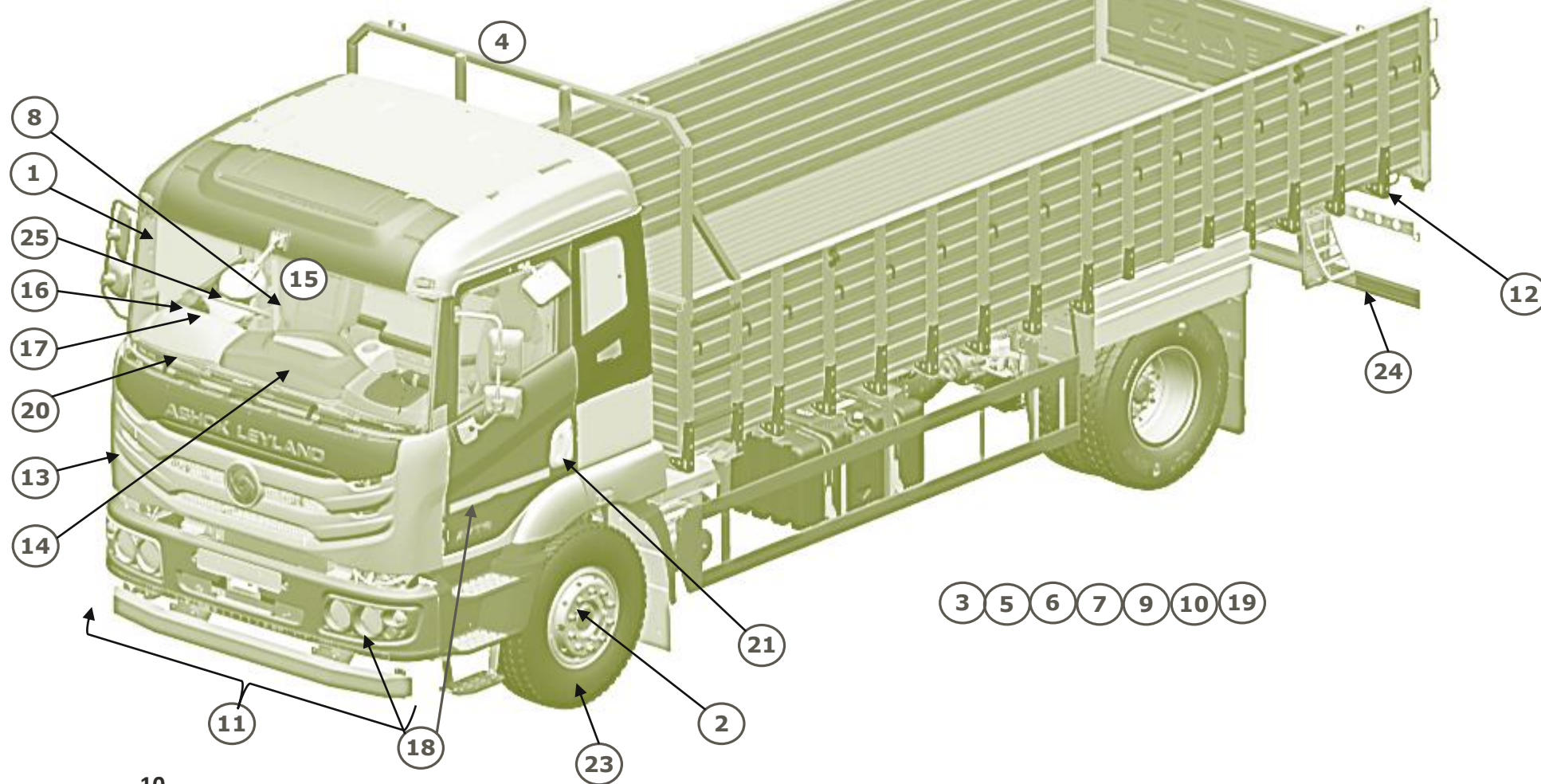
Truck - Regulatory Outlook 2030 (Domestic)

Firm:

- 1. Safety glazing → 16th Sep 2020
- 2. Brakes – New req. → Apr 21 / Apr 22
- 3. Emission – ISC & OBD II → Apr 23

Draft:

- 4. Overall dimension
- 5. HDPE / LMDPE
- 6. Recall Code
- 7. Trailer code
- 8. Seatbelt provisions
- 9. Pass by Noise
- 10. EV revisions
- 11. External Projection
- 12. Rear Camera
- 13. Cab survival space
- 14. HVAC
- 15. AEBS / ADAS
- 16. Tell-tale
- 17. Speedometer
- 18. Lighting & Refl. Tape
- 19. ELV
- 20. Demister
- 21. Door locks & Hinges
- 22. Microdot
- 23. Tyres & Rims
- 24. RUPD
- 25. Airbag

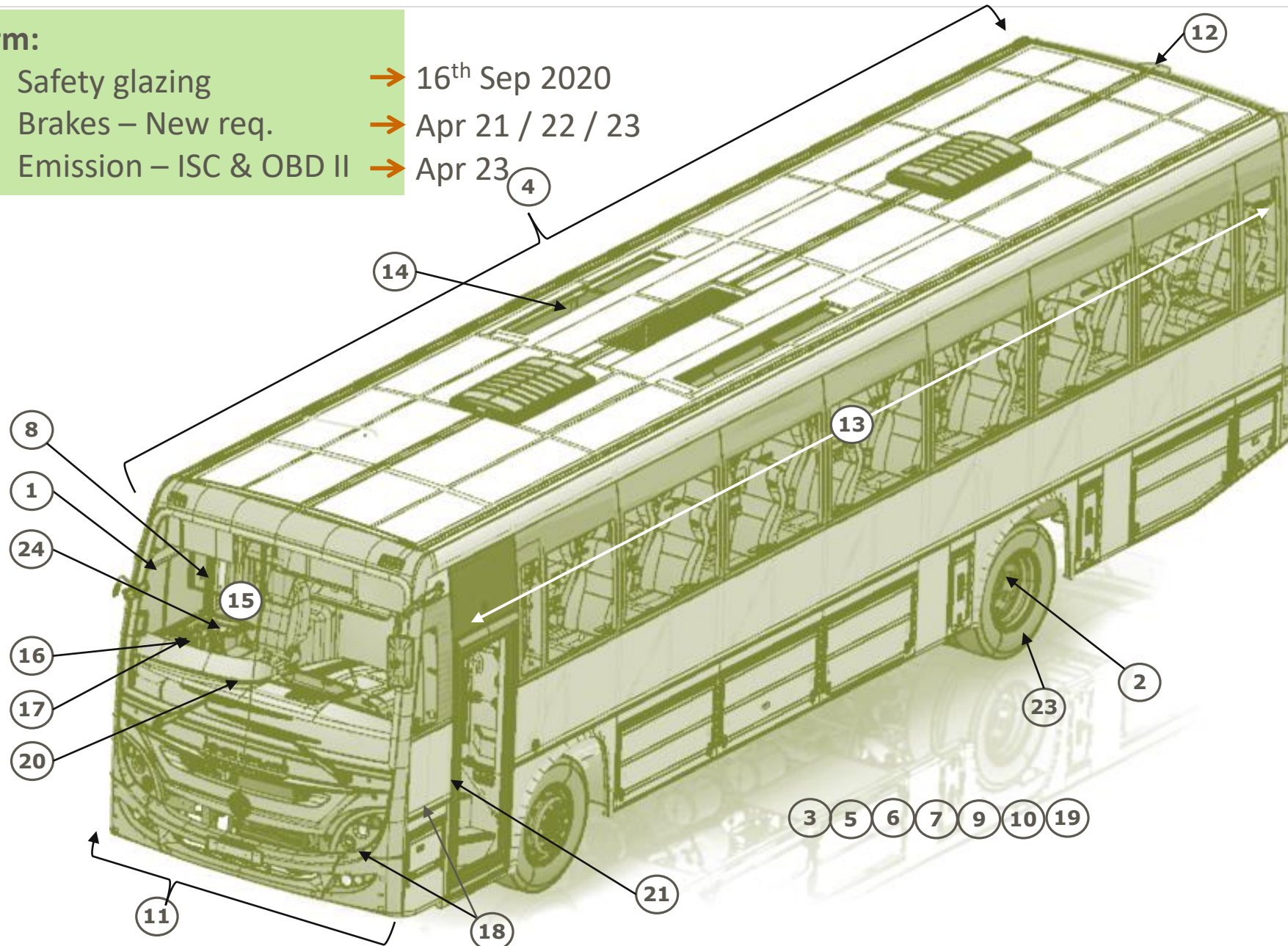




Bus - Regulatory Outlook 2030 (Domestic)

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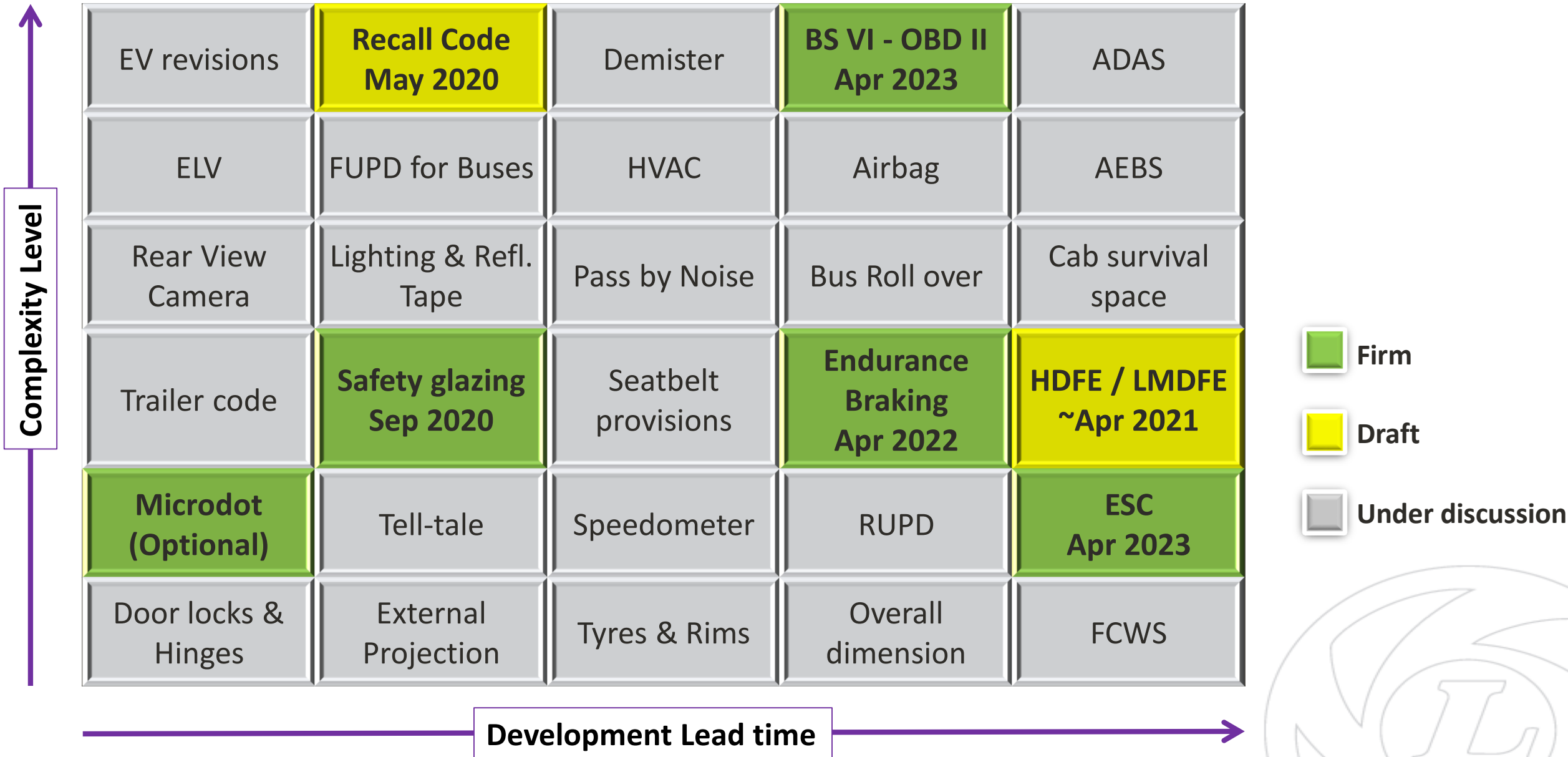


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- 11. External Projection
- 12. Rear Camera
- 13. Rollover
- 14. HVAC
- 15. AEBS / ADAS
- 16. Tell-tale
- 17. Speedometer
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Upcoming Regulations overview





Thank you!!!

