

### SPREADING LIGHT ON REGULATIONS SINCE 1952

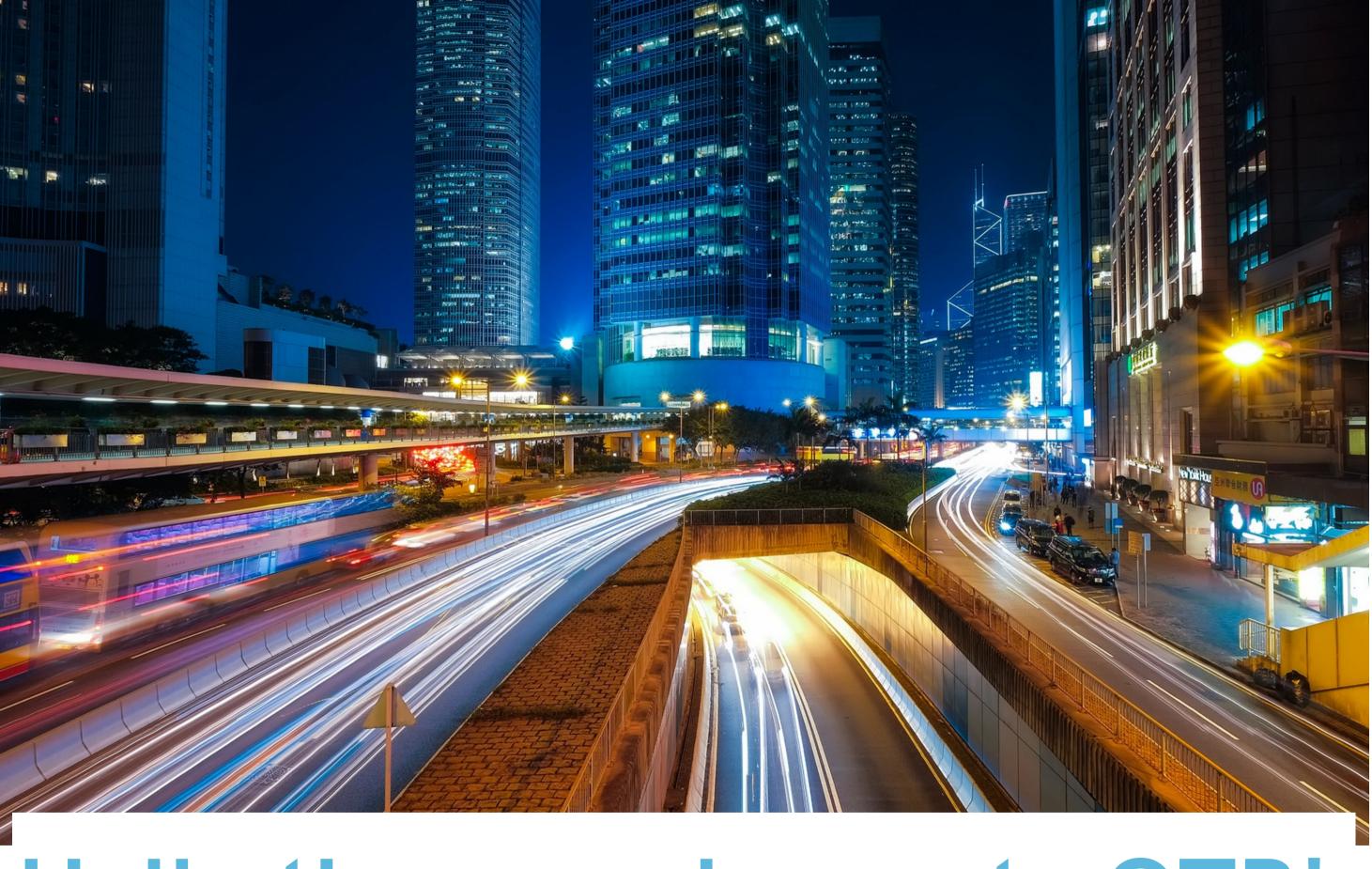


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### THE INTERNATIONAL AUTOMOTIVE LIGHTING AND LIGHT SIGNALLING EXPERT GROUP



### Hello there, welcome to GTB!

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In the field of automotive lighting, technology develops rapidly. These innovations need a legal regulatory framework to ensure traffic safety and sustainability.

The automotive lighting world is truly global, and this is clearly evident from the current developments in the UN World Forum (WP29) as well as from the widening membership of GTB. Thanks to this, GTB is able to represent the interests of the whole value chain of automotive lighting. System suppliers, light source manufacturers, vehicle manufacturers, testing laboratories, research organisations and academia are all part of the GTB Family.

### WE LOOK FORWARD TO FURTHER INCREASE THIS SUCCESS AND THE INTERNATIONAL AWARENESS AROUND GTB.

- The GTB Administrative Committee -

### Introduction



# What is GTB?

A *Non-Governmental Organization* operative since 1952 and in special consultative status with ECOSOC (the UN Economic and Social Council) since 2014.

*A non-profit Association* totally funded and managed by its membership: the operating costs are shared, and this allows us to provide a high-quality service at low cost for the benefit of all members.

The only global group of vehicle lighting experts supporting the international regulatory process through the combination of their experience and skills as:



Vehicle manufacturers

Test laboratories

Lighting systems manufacturers

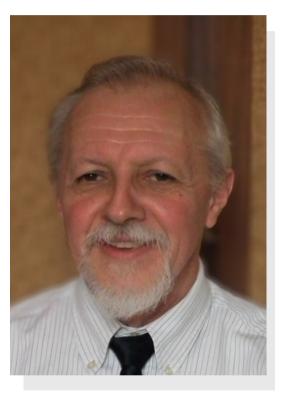
Light source manufacturers

**Regulatory agencies** 

Academia



# WE PROVIDE A UNIQUE OPPORTUNITY FOR MEMBERS TO BE INVOLVED IN THE UN REGULATORY PROCESS.







### Valter GENONE

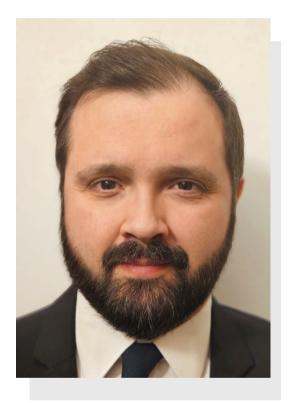
President

### **Bart TERBURG**

Vice-President

### **Davide PUGLISI** Secretary-General

## The Team



### Federico MATARAZZO

Technical Officer



# Our Members

### **17 MEMBERS**





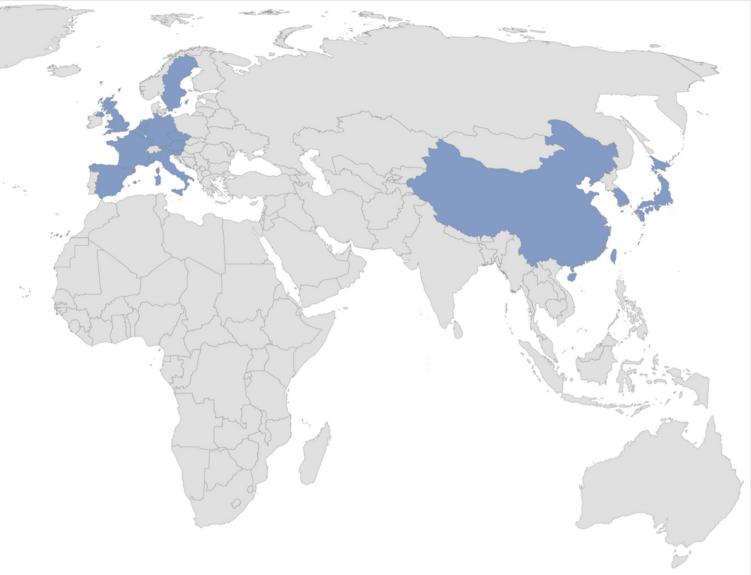






Korea Transportation Safety Authority Korea Automobile Testing & Research Institute













3M DEUTSCHLAND GMBH AB SCAND MOTORCENTER AGORIA AMEYE AML - SYSTEMS AMS AMS OSRAM GROUP ASPÖCK SYSTEMS GMBH ASTON MARTIN ATC BEIJIGN AUDI AG AUTO LONG ELECTRIC INDUSTRIES CO., LTD. AUTOLED BEE LIGHTING BENTLEY MOTORS BMW AG VERITAS CALITRONIC SYSTEMS LTD. CAT EYE CATARC CEVT CHANGZHOU T&D INTERNATIONAL TRADING CO., LTD CHANGZHOU XINGYU AUTOMOTIVE LIGHTING SYSTEMS CO., LTD. CNH INDUSTRIAL COVESTRO DEUTSCHLAND GMBH CSVW CUNA DAIHATSU DAIMLER AG DANYANG DEKRA DKI INTERNATIONAL COMPANY LIMITED. DR. ING. H.C. F. PORSCHE AG EAGLE EYES TRAFFIC IND. CO., LTD. ELECTRÒNICA I AUTOMATISMES SL ESUSE AUTO PARTS MFG. CO., LTD. EVONIK PERFORMANCE MATERIALS GMBH FAKT S.R.L. FAYMONVILLE FEDERAL SIGNAL CORP FEDERAL SIGNAL VAMA S.A. FICOSA INTERNATIONAL S.A FLEX N GATE FORD MOTOR COMPANY FORVIA - HELLA GMBH & CO. KGAA GENERAL MOTORS CORPORATION GENTEX GMBH GIANTLIGHT TRAFFIC SUPPLIES INSTRUMENT CO., LTD. GOLDEGN CATTLE DESIGN INTEGRATED SOURCE (D., LTD. OROTE INDUSTRIES LIC HÄNSCY OMBH HASCO VISION TECHNOLOGY CO., LTD HELLA SATURNUS SLOVENIJA D.O.O. HINO MOTORS, LTD. HONDA MOTOR CO., LTD. HONDA R&D EUROPE (DEUTSCHLAND) GMBH HUAWEI HYUNDAI KIA MOTORS HYUNDAI MOBIS CO., LTD HYUNDAI MOTOR EUROPE TECHNICAL CENTER GMBH ICHIKOH IDIADA IL-HEUNG IMMA INSTRUMENT SYSTEMS GMBH ISOQA TECHNICAL SERVICE CO., LTD. ISUZU J. W. SPEAKER JAGUAR LAND ROVER JBDL JNP CO., LTD. JUN YAN AUTO INDUSTRIAL CO., LTD. JUST AUTO LIGHTING TECHIOLOGY OD., LTD. JUSTAR TRAFFIC INDUSTRY CO., LTD. JUTE INDUSTRIAL CO.,LTD. KATRI KAWASAKI KIT KO CHOU ENTRY PROSE COLATO MOMUFARTURING CO., LTD. LCOE - FUNDACIÓN PARA EL FOMENTO DE LA INNOVACIÓN INDUSTRIAL LEDBEAM TECH CO., LTD. LIAN-HWAU MOLEING ENTERPRISE CO., LTD. LIFEELEX LMT LICHTMESSTECHNIK GMBH LUMILEDS MAGNA LIGHTING MAN TRUCK & BUS SE MARELLI AUTOMOTIVE LIGHTING MASERATI MAZDA MERCEDES-BENZ AG MICROLIGHT AUTO PARTS MFG. CO., LTD. MIND OPTOELECTRONICS MITSUBA MITSUBISHI FUSO MYCARR LIGHTING TECHNOLOGY CO., LTD. NAST NEIN SUNERING ENTERPRISE CO., LTD. NICH A NISSAN NISSEI NLSIC NORMENSTELLE ELEKTROTECHNIK (NE) NORTH AMERICAN LIGHTING NSVV NTSEL ODELO GMBH ORAFOL EDROPE CMBH OWL LIGHT AUTOMOTIVE PRODUCTS MFG. CORP. PANASONIC PETERSON MANUFACTURING PININFARINA PLASTIC OMNIUM LIGHTING SYSTEMS PORSCHE AG POWER LAI CO., LTD. PUNCH TORINO S.P.A. RDW RENAULT GROUP RISE RIVIAN SAE INTERNATIONAL SAIC SAKAE RIKEN SAPPHIRE TECHICAL SOLUTIONS SCANIA CV AB SEAT TECHNICAL CENTRE SEOUL SEMICONDUCTOR SHIN CHIN INDUSTRIAL CO., LTD. SIS SL CORPORATION SMMT SMVIC STANLEY ELECTRIC CO., LTD STELLANTIS SUBARU SUPER LEE ENTERPRISE CO., LTD. SUZUKI SYS TOKAIDENSO TOSHIBA TOYODA GOSEI TOYOTA TRUCK-LITE UK TÜV RHEINLAND LICHTTECHNIK GMBH TYC. BROTHER INDUSTRIAL CO., LTD. UD TRUCKS UNE UNIVERSITY OF MICHIGAN VALEO VISION VAN HOOL VARROC ITALIA VDA VOLKSWAGEN AG VOLVO CAR CORPORATION VOLVO TRUCKS WEIDPLAS WENEEDS ENTERPRISE CO., LTD. WIPAC WKO YAR TON ENTERPRISE CO., LTD. YEEGENG ENTERPRISE CO., LTD. YEONG HORNG SHING INDUSTRY CO., LTD. ENTERPRISE COMPANY LIMITED YUAN JEOU INDUSTRIAL CO., LTD. ZANINI AUTO GROUP ZKW GROUP

# **Our Services**

PROMOTE

Safety

#### Avoiding regulatory barriers

**Removing unnecessary** administrative burden to innovation and international trade



the safety, economic and environmental implications of the technical developments with a view to their practical application

**FACILITATE COOPERATION** 

of both technical and administrative experts coming from all disciplines involved in road vehicles lighting, considering operational and cultural aspects of the different countries

new technical developments regarding all aspects of automotive lighting, light sources, lighting functions and their installation in the vehicle: this includes sponsoring independent research carried out by globally acknowledged institutes





# PREPARE PROPOSALS

for new or amended **UN Regulations and** standards for testing, approval and certification of vehicle lighting, light signalling systems and light sources

# **PROVIDE**

### **AN EFFECTIVE CHANNEL**

for contributing to the UN regulatory process



### UP-TO-DATE CONSOLIDATIONS

of UN Lighting Regulations as a tool to support the homologation process



### A COMMON GOAL

to facilitate traffic safety and economic advantage



### UP-TO-DATE INFORMATION on regulatory trends in the various world regions





### THE STRUCTURE

Administrative Committee **(AC)** 

General Assembly (**GA**)

**WG Strategy** (WG S)



### **Working Groups**

Front Lighting (WG FL) Signal Lighting (WG SL) Light Sources (WG LS) Installation (WG I) Safety and Visual Performance (WG SVP) Photometry (WG P)

### **ADMINISTRATIVE TECHNICAL**



### **Technical Steering Committee (TSC)**

#### **Task Forces**

Vehicle-Level Laboratory Testing Procedure (TF VLLTP) Lighting and Visibility for Sensors (TF LVS)













International Electrotechnical Commission

International Organization for Standardization



International Commission on Illumination Commission Internationale de l'Eclairage Internationale Beleuchtungskommission



## OUR VISION

Be the partner of choice for governmental regulatory bodies and the worldwide centre of competence for all automotive lighting-related innovation makers



Bring together the expertise of our global membership to promote safety, avoidance of regulatory barriers and the removal of unnecessary administrative burden to innovation and international trade

# OUR MISSION



# OUR TARGETS

Actively support GRE to:

- Develop safety regulations to enable the international use of new technologies;
- Improve and simplify the existing lighting and lightsignalling UN Regulations.

development of Regulations.

Sponsor independent international research to provide a scientific base as supporting rationale for the ongoing





and Light Signalling Expert Group

If you already belong to one of the GTB member delegations, ensure that you derive full benefits from being part of the global lighting expert group.

If your company or organization is not yet represented in GTB, consider joining an existing GTB member, or applying for GTB membership through a suitable national association in your country.

For further information please contact:

### **GTB Secretariat**

secretariat@gtb-lighting.org www.gtb-lighting.org



