

# Introduction of UL Standards and Standards Development Process

Yangon, 16 Oct 2019

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# UL, a Global Safety Science Organization



**OUR MISSION**

# Working for A Safer World

Since 1894



**#ULis125**

# TWO DISTINCT ORGANIZATIONS WITH ONE COMMON MISSION

Underwriters Laboratories Inc  
(Nonprofit)



**Standards**

Research  
Education  
Outreach

UL LLC



Testing, Inspection & Certification  
Software as a Service  
Advisory Services

**One of the biggest CABs in the world**

# UL Standards by the numbers

NEARLY

**1,700** 

**CURRENT STANDARDS**

On safety, security and sustainability

**70+** 

**DEDICATED**

Standards Professionals  
In 8 countries

Over

**4,000** 

**VOLUNTEERS**

ACTIVELY PARTICIPATING IN  
STANDARDS DEVELOPMENT

APPROXIMATELY



**50,000**

**REGISTERED CSDS USERS**

COLLABORATIVE STANDARDS DEVELOPMENT SYSTEM



**35+**

**COUNTRIES**

REPRESENTED ON STPs  
AND COMMITTEES



**450**

**ACTIVE STPs  
AND COMMITTEES**

DEVELOPING AND MAINTAINING STANDARDS

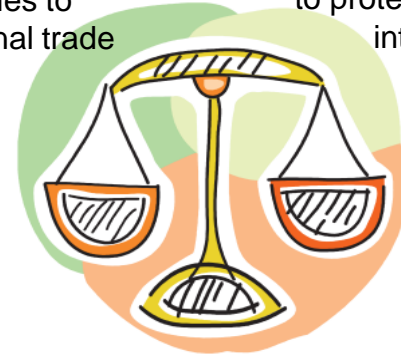


# UL Standards supporting global trade

- **UL standards** adhere to WTO TBT agreement definition of international standards
  - 6 principles and Good Standardization Practices

Avoiding unnecessary obstacles to international trade

Allowing for regulatory autonomy to protect legitimate interests



Use of International Standards

# UL Standards and IEC/ISO



## UL Leadership Roles in IEC:

**Jim Shannon**, Board Chair UL  
IEC President

**Sonya Bird**  
Member IEC SMB, USNC Vice-President

**Steve Margis**  
US Alternate to IEC CAG



**90+**

**EXPERTS  
IN ISO**

Technical Committee

**150+**

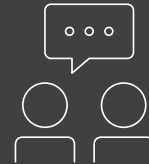
**EXPERTS  
IN IEC**

Technical Committee



**IEC TC  
Secretariat**

TC 61, TC 72,  
TC 108



# UL Standards Dual Accreditation in the USA and Canada



**UL Standards – developing the common National Standards for the US and Canada**

# UL Global Standards Managers



**Phil Piquiera**  
Vice President  
Global Standards



**Sonya Bird**  
Director  
International Standards



**Maria Iafano**  
Americas



**Claudia Sama**  
Mexico  
Latin America



**Mohamed Amer**  
MENA



**Eric Zhang**  
China



**Jessie Guo**  
China



**Kolin Low**  
ASEAN

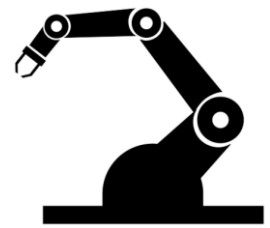
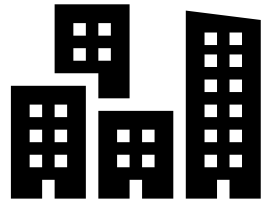
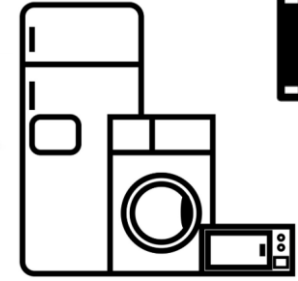
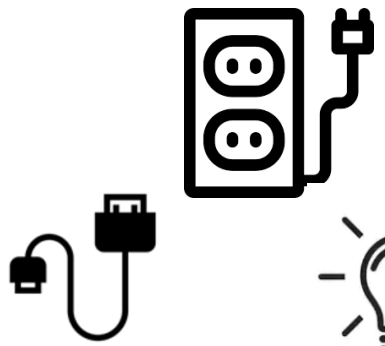
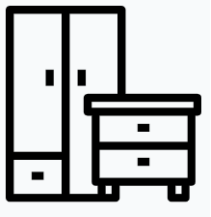
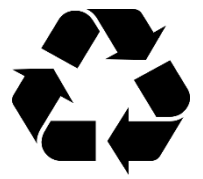


**Manjunath V**  
India  
Sub-Saharan Africa





# Can you name some UL standards?



Proprietary & Confidential.

~1,700 UL Standards for Safety, Security and Sustainability

# Free Digital View of UL Standards

- Facilitate public viewing of UL standards reference in public policies
- Raises the awareness to wider group of stakeholders such as academia, consumers, product designers, and innovators of what is required in the standard
- Can be accessed by anyone around the world

**Furtheres UL's mission and commitment to public safety.**

Register and access the standards at [www.shopulstandards.com](http://www.shopulstandards.com)



Proprietary & Confidential.



Standard for Industrial Control Panels

UL Standard

[Scope](#)

[Summary of Topics](#)

Standard 508A, Edition 3

Edition Date: April 24, 2018

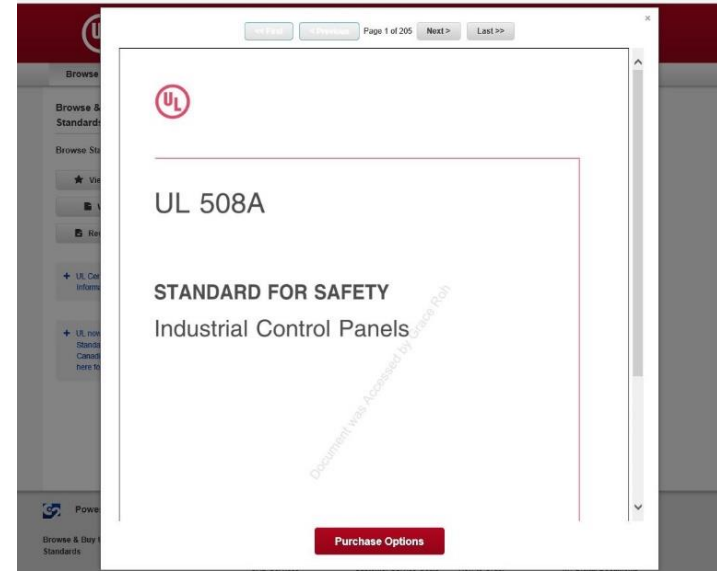
\$716.00-\$1,567.00 ?

**Purchase Options**

[Get Update Alerts](#)

[Digital View](#)

A red arrow points to the 'Digital View' button.



UL 508A

STANDARD FOR SAFETY

Industrial Control Panels

Document was prepared by Denise Rich

**Purchase Options**

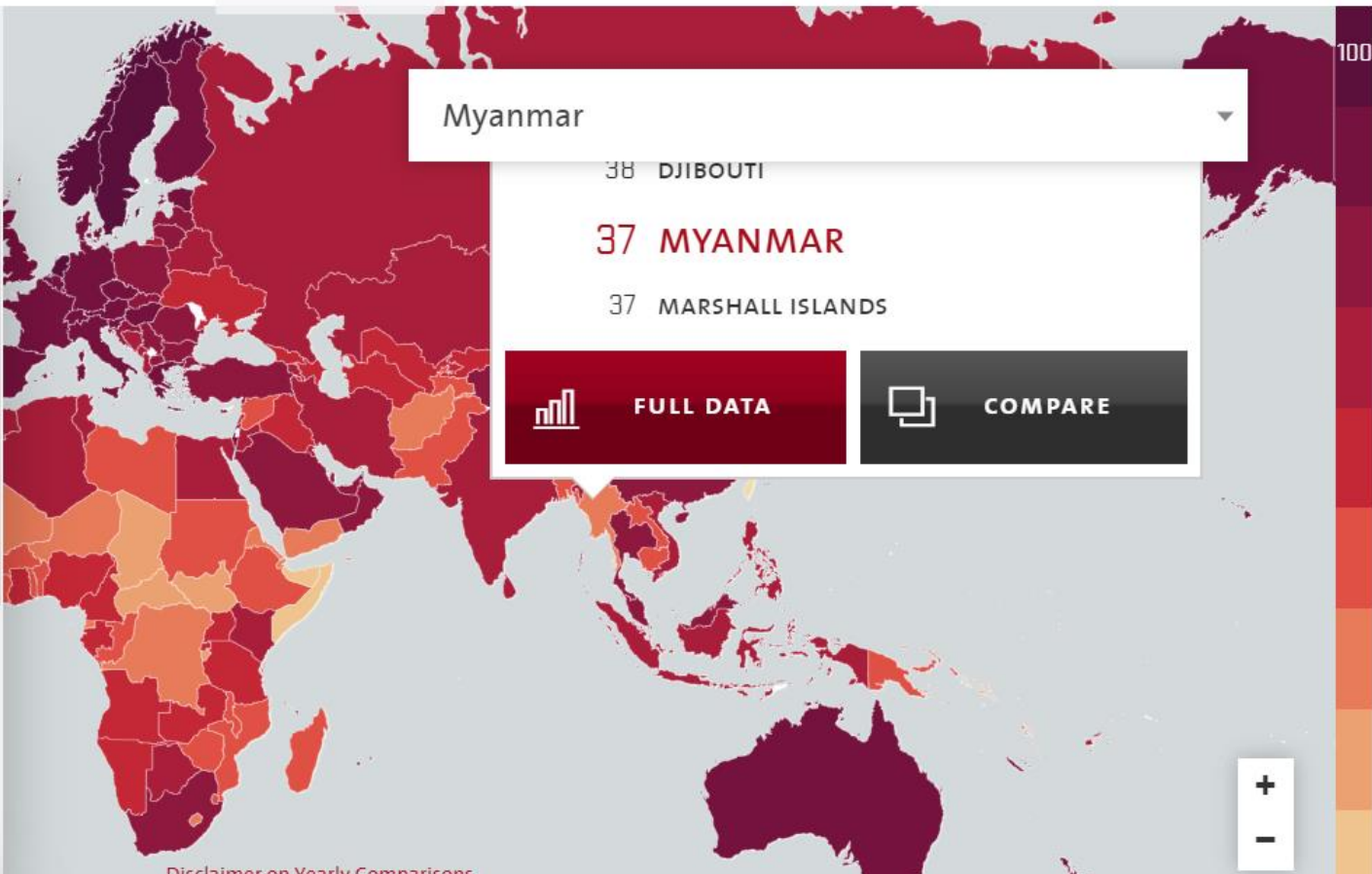


FILTER BY ?  
Peer Group

UL SAFETY INDEX



The UL Safety Index quantifies the safety environment through three main drivers: Institutions and Resources, Safety Frameworks, and Safety Outcomes. This combination of indicators accounts for socio-economic forces and estimates of injury, disability and death.



Myanmar

38 DJIBOUTI

**37 MYANMAR**

37 MARSHALL ISLANDS

FULL DATA

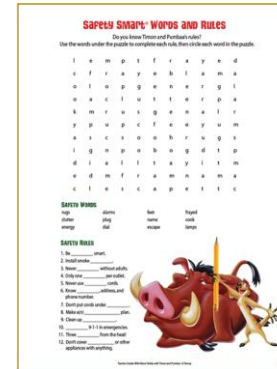
COMPARE



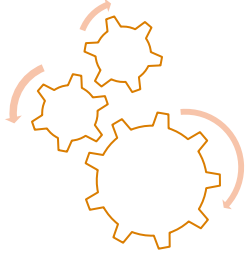
# Safety Smart

Childhood injuries are a global health problem. Every year, over half a million children die from unintentional injuries. The vast majority of these injuries are preventable through safer behaviors. Focusing on preparedness and prevention through education can help mitigate loss and suffering.

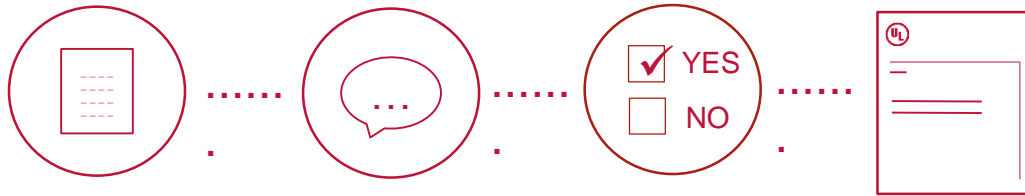
UL believe that childhood injuries are predictable and preventable. Through this unique commitment, the collaboration for Safety Smart was developed with Disney Parks, Experiences and Products – a global educational program designed to improve children’s awareness and understanding of **fire and water safety, human health and wellbeing, the environment as well as cyber security, and road safety.**



Activity sheets are translated in 34 languages



# Standards Development Process



# UL Standards Technical Panel

- **Consensus body** that votes and approves UL standards
- Committee with a balance of interests (no categories greater than 1/3 of total)
- Open to anyone

UL Staff  
(No voting right)



Chair



Project  
Manager

Volunteers (9 categories)



Producer



Supply  
Chain



Commercial /  
Industrial  
User



General



AHJ /  
Regulator



Government



Testing &  
Standards



Consumer



International  
Delegate

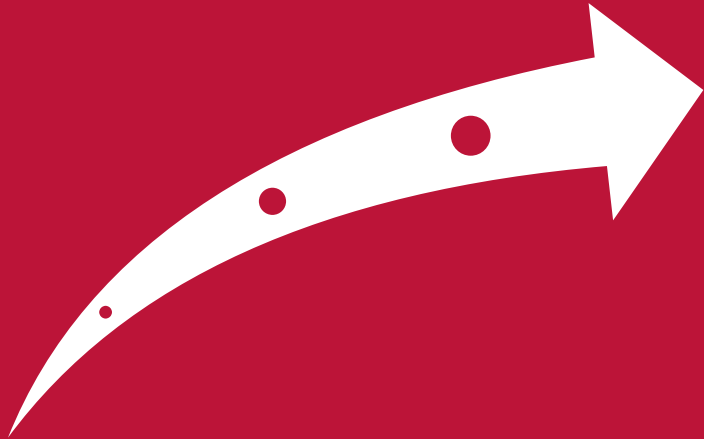
## Example: UL STP 2272 - Electrical Systems for Personal E-Mobility Devices

Interest Category	Number of STP members	%
Producer	10 – Incl. Segway, Razor and other large to small producers from US and China	32.26%
Testing & Stds Org	6 – Incl. UL and other international testing bodies from US, China, Canada	19.35%
Supply Chain	6 – Retailers and PMD parts suppliers from US, Canada, Japan and Korea	19.35%
General	4 – Industry association and consulting firms from US and China	12.90%
Government	3 – From Canada and Netherlands	9.68%
Commercial & Ind Users	1 – Spin, dockless e-scooter sharing co owned by Ford	3.23%
Int'l Delegate	1 – Rep from Chinese national TC	3.23%
Non-voting member	2 – US CPSC, ASTM	-

- STP voting members approves UL 2272 -> UL only has 1 vote
  - Provide comments, provide inputs to comment resolutions, help develop proposals to the standard.
- Balanced representation - no category with 1/3 of total representation
- International interested experts



# Phases of the process



Each phase is processed in UL's standards development system, CSDS



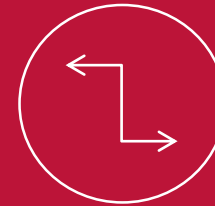
Proposal Submission



Preliminary Review



Proposal Review



Recirculation



# UL Collaborative Standards Development System (CSDS)

Search Type: Standard Number Search Text:

KOLIN LOW - UNDERWRITERS LABORATORIES INC 2019-05-05 09:05:25 AM (CDT)

**Proposals** STP Info General Info UL Canada Links Help Admin

View Proposals Available  
Procedures for Developing Rationales and Proposals for UL Standards  
Submit Proposal Request  
Proposal Cut-Off Dates  
Request New Standard to be Developed  
Request for a New Standard for Canada

		<a href="#">Close Date</a>
UL 85 Ed. 10	UL 85 Ed. 10 - Preliminary Review-Modification of Requirements for Conductor Stranding - Opened 2019-05-03	2019-05-17
UL 87 Ed. 12	UL 87 Ed. 12 - Proposal Review - Opened 2019-05-03	2019-06-17
UL 87A Ed. 1	UL 87A Ed. 1 - Proposal Review - Opened 2019-04-05	2019-05-06
UL 87B Ed. 1	UL 87B Ed. 1 - Proposal Review - Opened 2019-04-05	2019-05-06
UL 207 Ed. 8	UL 207 Ed. 8 - Preliminary Review - Opened 2019-04-26	2019-05-10
UL 252A Ed. 4	UL 252A Ed. 4 - Proposal Review- Recirculation - Opened 2019-05-03	2019-06-03
UL 295 Ed. 2	UL 295 Ed. 2 - Preliminary Review - Opened 2019-05-03	2019-05-17

## UL's web-based standards development system

✓ Proposals, Voting, Commenting, Meetings

CSDS subscription is free and open to anyone



# Access to Standards Content

Free access to UL standards, revisions, and proposals for certification clients only (with active listings). Access to standards documents through the dedicated website: [www.ULstandards.com](http://www.ULstandards.com).

Non-UL customers purchase standards through [sales site](#).

Educational video series on accessing UL Standards documents that may be helpful for participants:

- ✓ [Accessing UL Standards Documents: Standards Certification Customer Library \(SCCL\)](#)
- ✓ [Accessing UL Standards Documents: UL Standards Sales Site](#)
- ✓ [Accessing UL Standards Documents: CSDS](#)

Playlist

[https://www.youtube.com/playlist?list=PL19IE6OEt6UdgyXHW0XojPbj30cAr\\_eFI](https://www.youtube.com/playlist?list=PL19IE6OEt6UdgyXHW0XojPbj30cAr_eFI)

# How to become involved in the Development Process

Sign up as UL CSDS member:

<https://csds.ul.com/Home/Default.aspx>

Attend STP Meetings either as an STP Member or a Guest:

<http://csds.ul.com/Home/MeetingsDefault.aspx>

Join an STP (online application)

<https://csds.ul.com/STPInfo/ApplicationHomePage.aspx>

“Call for Members” indicates which STPs are seeking members:

<https://ulstandards.ul.com/develop-standards/stps/stp-charts/>

Additional information on STP Participation:

<https://ulstandards.ul.com/develop-standards/>

# CRISIS RESPONSE – UL 2272 IN ACTION

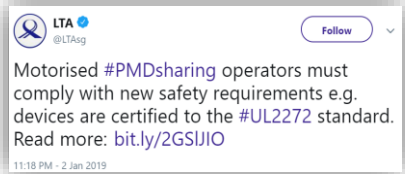


UL Announces Availability of UL Certification for Hoverboards  
New UL 2272 provides framework to evaluate, test, and certify self-balancing scooters, also known as hoverboards.

UL drafting hoverboards standard

CPSC announces 10-firm recall

- UL 2272 electrical requirements proposed to be added to ASTM standard
- UL 2272 shared with IEC



- **Referenced in LTA Active Mobility Act 2019**



- UL technical team is alerted to issue
- News of hoverboards fires gains media attention

- First draft of UL 2272 written
- Meetings w/key retailers
- Meeting w/US CPSC

**CPSC issues guidance w/ expectation of compliance to UL 2272**



**UL 2272 achieves consensus**, recognized as a US-Canada standard (ANSI/CAN) & broadened to cover other types of e-mobility products

Joint Working Group with China Technical Committee to harmonize standards

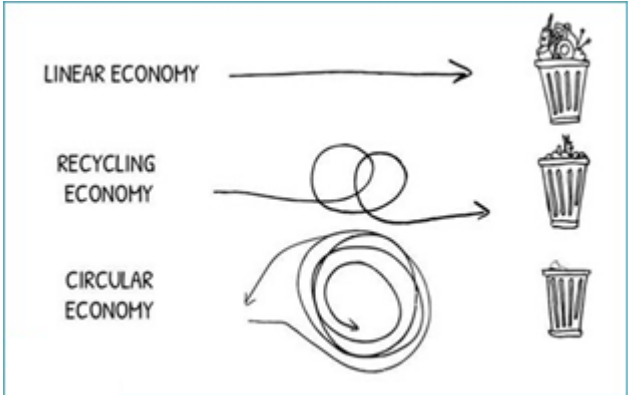
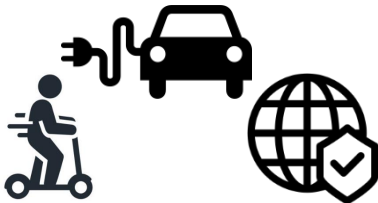


**Internationally recognized full standard in < 12 months**



# UL Standards for SDGs

Examples of UL standards supporting UN Sustainable Development Goals



Credit: Plan C



# UL Cooperation Program



# UL Standards MoU Program

- Support harmonization and avoid duplication of standards development
  - Adoption of UL Standards with **NO** royalty and fee (charitable activities)
  - Online access of UL standards library
- Promote communication, foster collaboration and learnings
- Facilitate participation in each other's standards development activities
- Use of UL's resources to strengthen developing countries' national standards infrastructure
  - Capacity building for NQI and Standardization
  - Joint events, seminars and workshops



# UL MoU Partners



Signed with BSN Indonesia in Oct 2017 in Vladivostok, Russia

**Asia:** China, Indonesia, Singapore, Thailand, Viet Nam, India



Signed with TISI Thailand on 26 Jun 2018 in Bangkok, Thailand

## Other regions:

North America:

Canada

Africa:

ARSO, Senegal

Middle East:

Israel, Saudi Arabia

Latin America:

CROSQ, Mexico, Bolivia, Colombia, Costa Rica, Ecuador, El Salvador, Guyana, Jamaica, Peru



Signed with ESG Singapore on 9 Apr 2019 in Wellington, NZ





# UL Standards Supporting Policies in ASEAN



**Singapore** SCDF Product Listing Scheme for Fire Safety Products recognizes UL 448 (Fire pump), UL 300 (Fire Extinguishing System for Kitchen Hood), UL 924 (Self-luminous Sign).



**Philippines** BPS Mandatory Product Certification Scheme, Snap Switches - Household switch with AC/DC marking, shall be certified to PNS 57 (based on UL 20)



**Thailand** Ministerial Regulation on Fuel Service Station 2009 calls out UL standards for Underground Storage Tanks: UL 58, UL 1746 and UL 971.



**Indonesia** Public Work Minister Regulation No 26 of 2008 requires UL 1479, Standard for Fire Test of Through Penetration Fire Stop



**Malaysia** Fire & Rescue Department recognizes at least 5 UL standards in the regulation of fire equipment



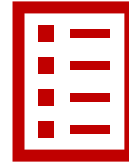
# UL Standards – Empowering TRUST since 1894



Recognized international standards consensus platform open to anyone



Unbiased Research & Science-based Standards



Fully transparent standards and CSDS records



Quick response to market need and short development time



International harmonization and collaboration with IEC and ISO



Support national/regional development & adoption of UL standards globally



# Thank you

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Confidential