

UL Standards for Non-Tariff Measures and Sustainable Development Goals

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2019-03-14, Bangkok, UN Conference Center



OUR MISSION

Working for A Safer World

Since 1894



UL COMPRISES TWO DISTINCT ORGANIZATIONS WITH ONE COMMON MISSION

UL Not For Profit (NFP)



Standards

Research
Education
Outreach

UL For Profit



Testing, Inspection & Certification
Software as a Service
Advisory Services

UL Standards - Development & Harmonization



International Public-Private
Partnership Consensus
Building Platform



Research &
Science-based
Standards



Free Online
Previews of full
UL Standards



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



UL Standards by the numbers

NEARLY

1,700 

CURRENT STANDARDS

On safety, security and sustainability

65 

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



30+

COUNTRIES

REPRESENTED ON STPs
AND COMMITTEES



450

**ACTIVE STPs
AND COMMITTEES**

DEVELOPING AND MAINTAINING STANDARDS

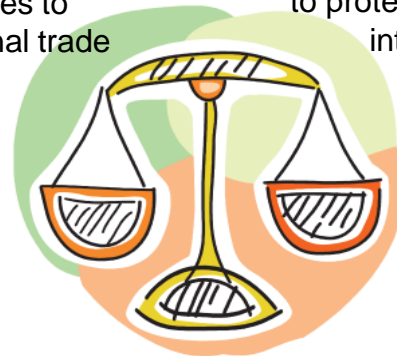


UL Standards Supporting International Trade

- **UL standards** adhere to WTO definition of international standards
 - Attested by ANSI and SCC accreditations
- Effective tool to help regulators avoid:
 - Over-regulation - that obstruct international trade and innovative development
 - Under-regulation - that jeopardize public safety

Avoiding unnecessary obstacles to international trade

Allowing for regulatory autonomy to protect legitimate interests



Use of International Standards





**Case Study:
A Mini Energy System - Hoverboard**

Self-balancing Scooter - Hoverboard

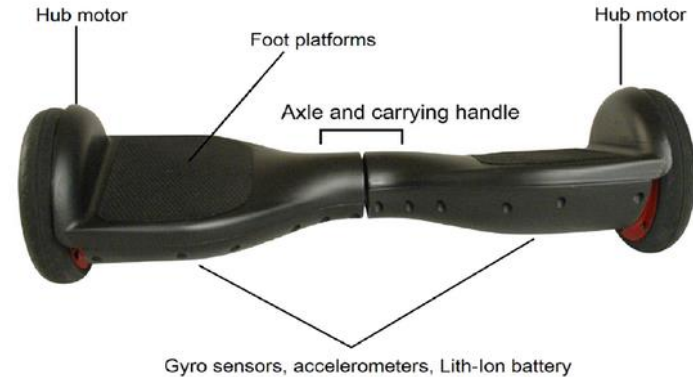
“Fantasy Comes True, Just As ‘Back to the Future’ Predicted” – Smithsonian.com, May 2015

*“Between 2017 and 2022, the recreational activities segment is set to reflect a robust **CAGR of 6.5%**, and surpass a market valuation in excess of **US\$ 1,300 Mn**” – Fact.MR, Aug 2017*

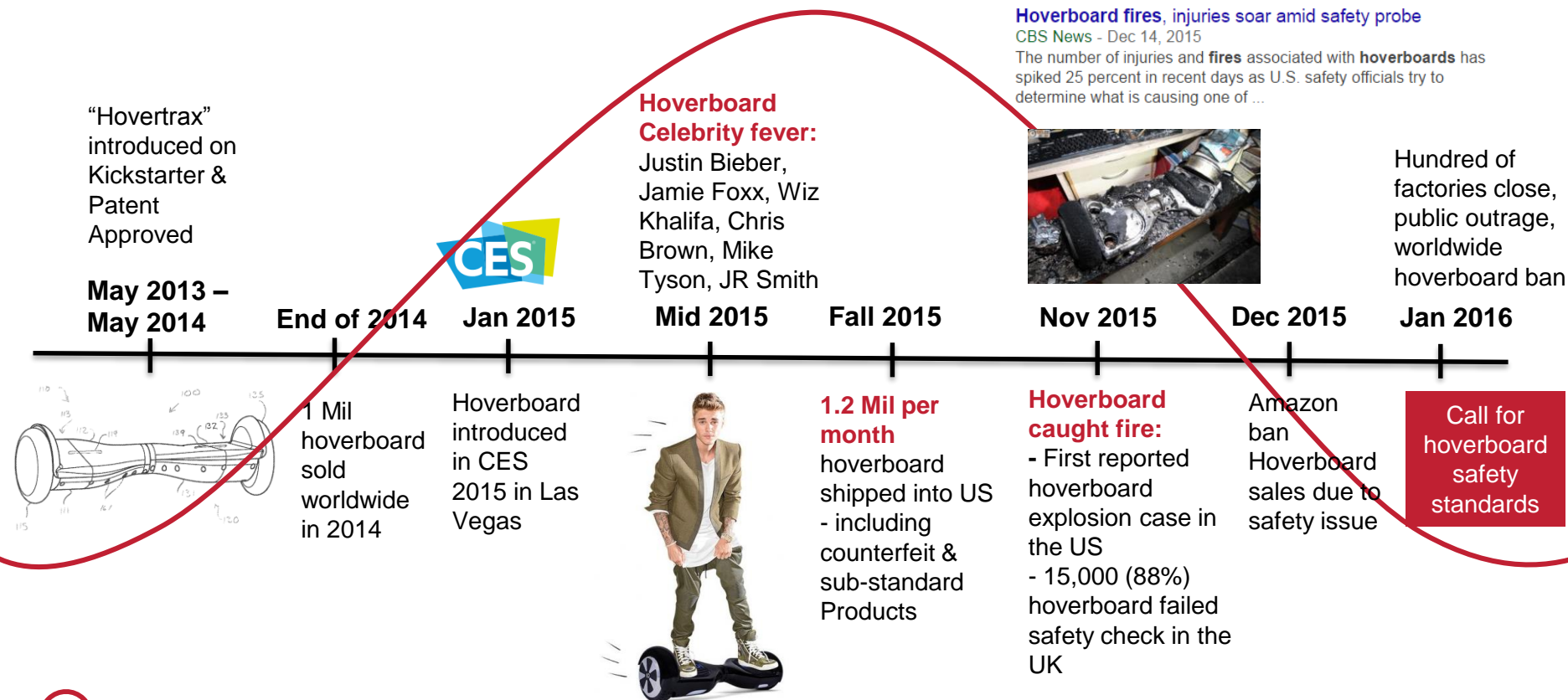
- Great Mobility Solution
- “Cool” Product with health benefits
- Promising Market Potential

Or

- A fast moving energy system and disaster waiting to happen?



Rise and Fall of Hoverboard



UL STEPS IN - A CRISIS & RESPONSE UNFOLD...



UL drafting
hoverboards
standard



UL announces
new UL 2272

CPSC
announces
10-firm recall

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

Mid-Nov –
Dec 1, 2015

Dec 2015-
Jan. 2016

Jan 2016

Feb 2

Feb 18

July 6

Nov 21

Late
2016/2017

2018

- 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 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



UL STANDARDS REFERENCED IN PUBLIC POLICIES

United States



United States
CONSUMER PRODUCT SAFETY COMMISSION

CPSC recommends that consumers who own or use hoverboards take these steps to reduce the risk of fire

- Hoverboards should be compliant with the UL2272 safety standard. However, even UL2272 compliance cannot guarantee that a hoverboard will not overheat or catch on fire.

Singapore



UL2272 Standard for Motorised PMDs

7. To improve public safety and minimise the risk of fire incidents, retailers will be prohibited from selling non-UL2272 certified devices from 1 July 2019. All motorised PMDs⁶ used on public paths must be certified to the UL2272 standard from 1 January 2021.

8. Owners of existing non-UL2272 certified e-scooters can register them with LTA if they were purchased before 1 July 2019. These e-scooters can be used on public paths until 31 December 2020 and will automatically be deregistered on 1 January 2021 when non-UL2272 certified PMDs cannot be used on public paths.

9. For the safety of device owners and those around them, LTA strongly encourages all owners to use UL2272 certified devices only. Please refer to LTA's website (bit.ly/ul2272sg) for an indicative list of UL2272 certified devices available in Singapore⁷.

UL Standard as effective tool:

- Facilitate international trade
- Enable innovation

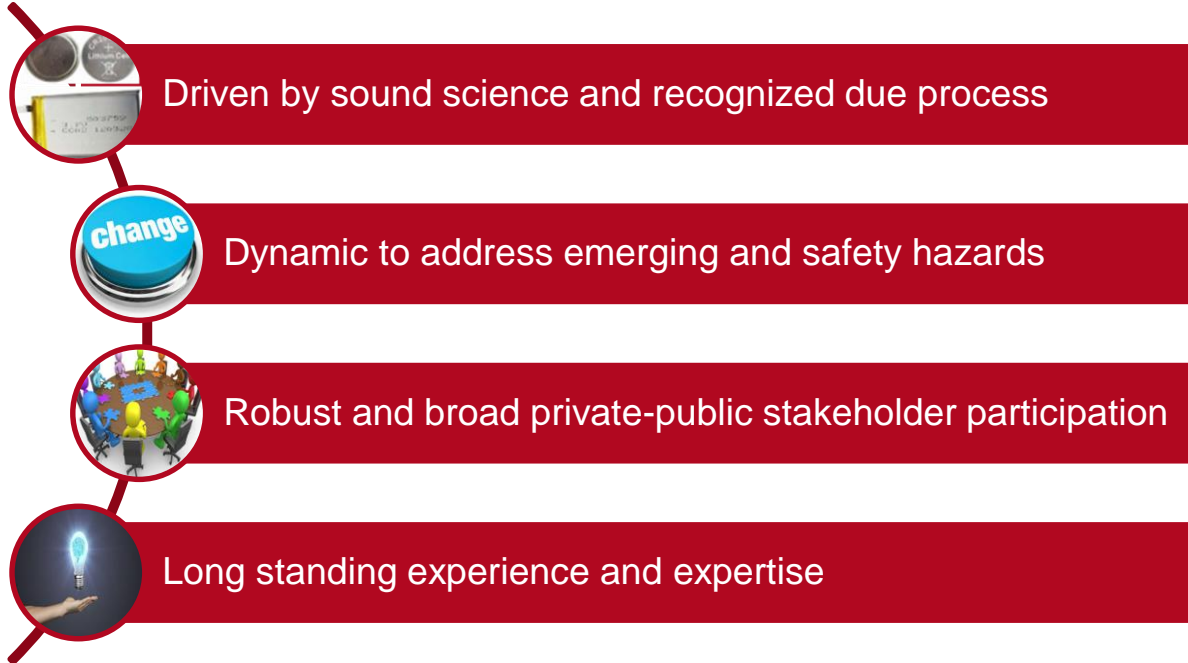


- Allow for regulatory autonomy
- Restore consumer confidence

Just another  *success story*

#ULis125

NAVIGATING THE CRISIS THRU UL





UL Standards for safer and more sustainable world



**SUSTAINABLE
DEVELOPMENT
GOALS**
17 GOALS TO TRANSFORM OUR WORLD

SDG 7 – AFFORDABLE AND CLEAN ENERGY

Safer and more affordable energy

Cleaner and more renewable energy (e.g. Solar and Wind)

Energy Storage System and Equipment



SDG 11 – SUSTAINABLE CITIES AND COMMUNITIES

Better Mobility & Transportation

Safer Building & Furniture

- Fire safety and chemical emission

Cleaner Water & Air



SDG 12 – RESPONSIBLE CONSUMPTION AND PRODUCTION

Corporate Social Responsibilities & Sustainability Reporting

Circular Economy

Resource Efficient Home Appliances (e.g. energy and water consumption, manufacturing and operation, End-of-Life, etc)



UL Total Solution for Sustainability for Manufacturers

Pure Platform/SPOT

Digital Platform

Corporate Operation & Management

Building Facility

Product

Pillars

Sustainability for Manufacturing Organization (UL 880)

Circular Economy (UL 3600)

Zero Waste to Landfill (UL 2799)

Building Indoor Air Quality (UL 2891)

Sustainability for Energy Efficiency Heating/Cooling System for Buildings (UL 2766)

Volatile Organic Emissions from Bldg Products & Interior Furnishing (UL 440)

GreenGuard –Chemical & Particle Emission (UL2818, UL2819, UL2820, UL2821, UL2822, UL2823, UL2824)

Ecology (UL 2778)

Building blocks

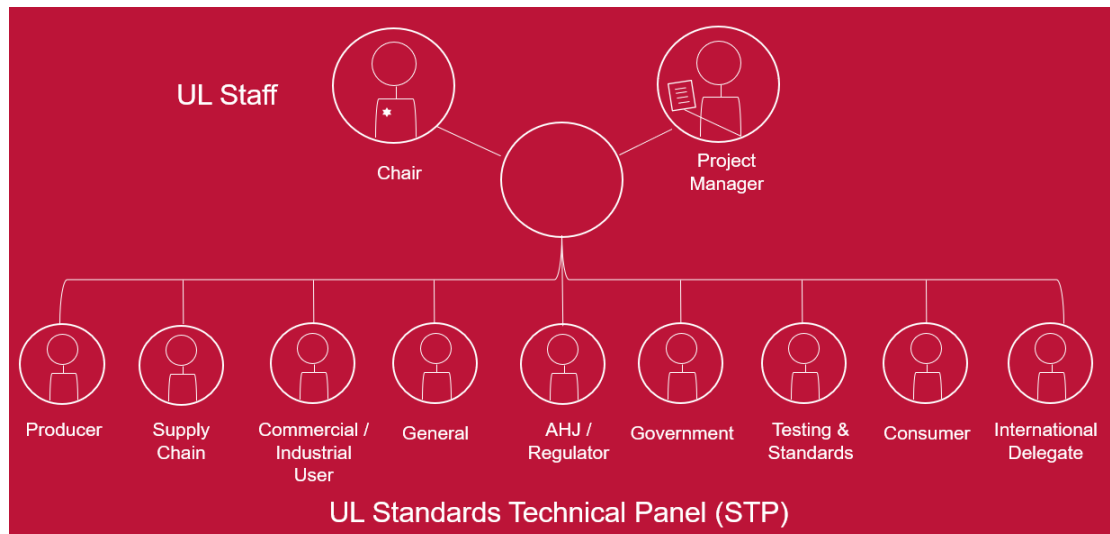


SDG 17 – PARTNERSHIP FOR THE GOAL

Join us to co-create the future!

UL Standards Development Platform opens to anyone:

- Standards Technical Panel (STP)
- Collaborative Standards Development System (CSDS)



Thank you

Empowering Trust™

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