Security is the new Safety

US-German Standards Panel 2018

"Working for a Safer World"



- UL Standards is part of Underwriter's Laboratories Inc., a not-for-profit entity with a public safety mission.
- UL has been developing standards for **over 110 years** (since 1903).
- UL has published nearly 1,700 current and active standards and Outlines of Investigation across the UL Family of Companies.







Standards Council of Canada Conseil canadien des normes

UL Procedures for accreditation published as *Regulations Governing* ANSI/UL STPs

- <u>http://ulstandards.ul.com/develop-standards/stps/stp-</u> <u>regulations/</u>
- Procedures align with WTO/TBT International Standards Principles



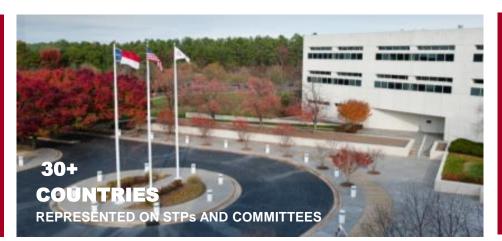


- ANSI Essential Requirements
- Consensus Body = Standards Technical Panel (STP)
- Key concepts
 - Balance
 - Openness
 - Transparency
 - Collaborative Standards Development System (CSDS)



UL Standards: By the Numbers

Nearly 1,700 CURRENT STANDARDS PUBLISHED BY THE UL FAMILY OF COMPANIES



OVER 4,000 Volunteers ACTIVELY PARTICIPATING IN STANDARDS

DEVELOPMENT

62 DEDICATED STANDARDS PROFESSIONALS

Approximately 50,000 Registered CSDS USERS

COLLABORATIVE STANDARDS DEVELOPMENT SYSTEM





New Challenges – New Risks – New Sciences



NEW CHALLENGES. NEW RISKS. NEW SCIENCE.

Widespread deployment of high-performance data networks initiated 4th Industrial Revolution

IoT is advancing into all areas of life and economy

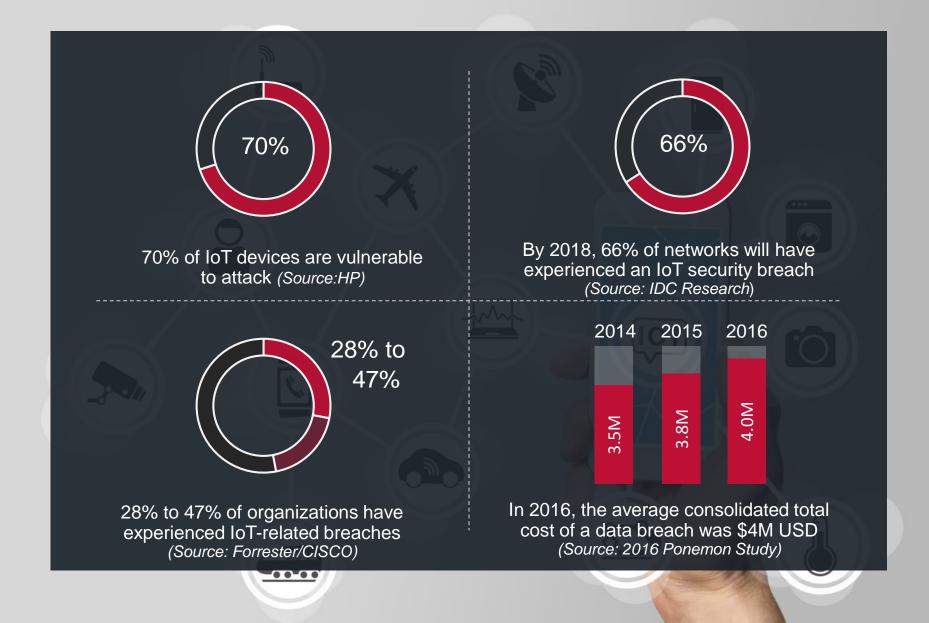
Realtime Communication and permanent exchange of large volumes of data enable new manufacturing and value creation processes

Definition of products and product safety are changing

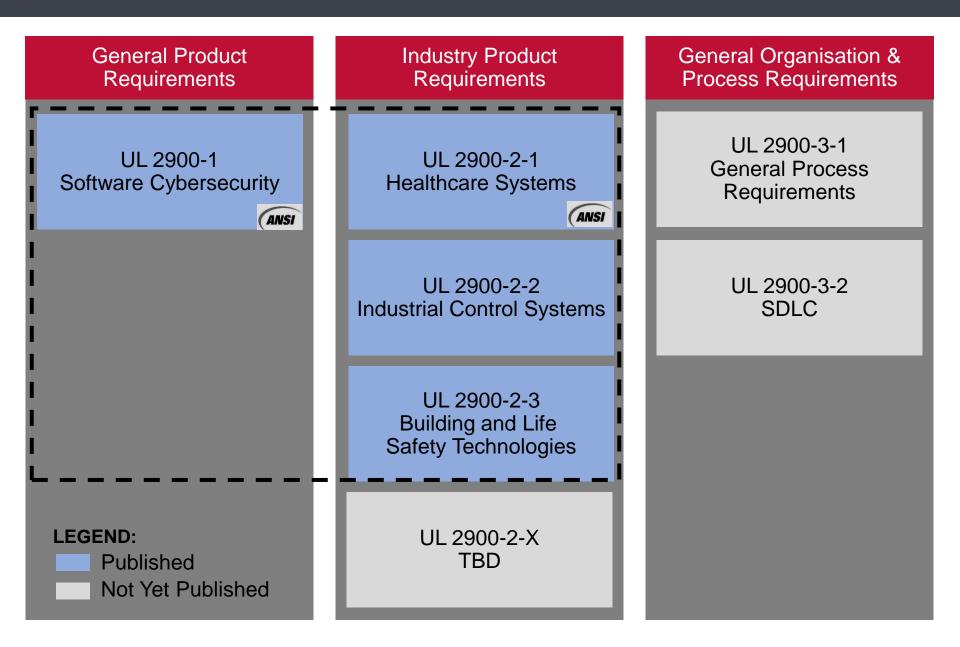


Security of internet-based products over the entire product lifecycle and ecosystem **Functional safety** is increasingly contingent on its information security.

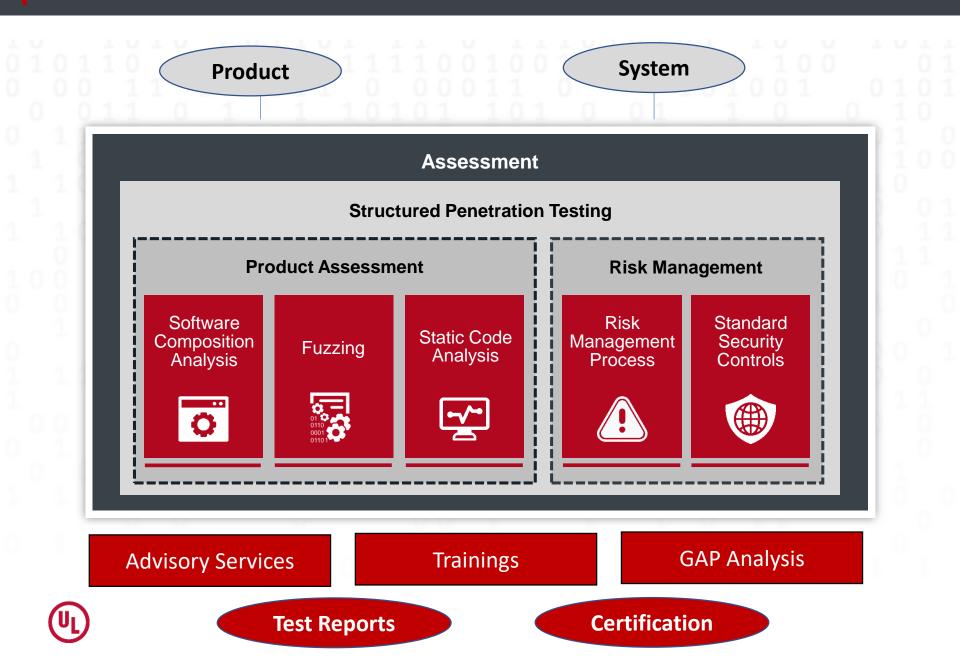
The IoT Cyber Threat



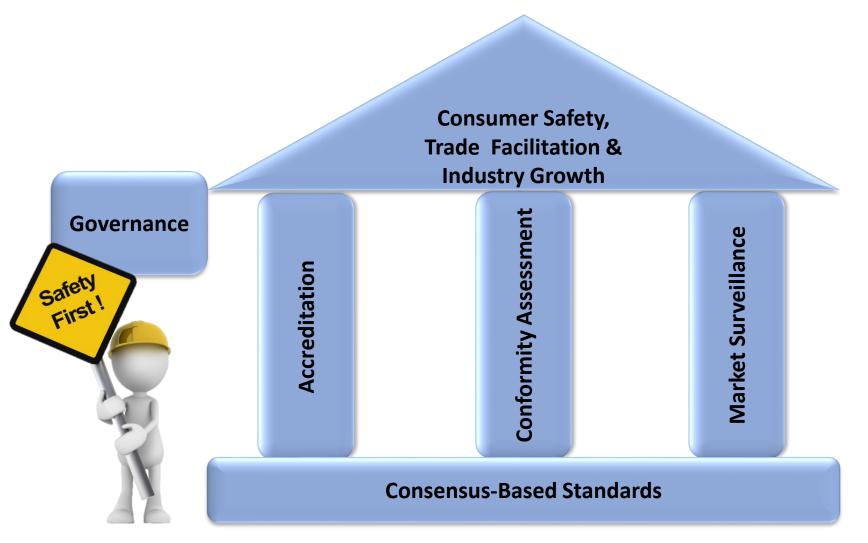
UL 2900 Standards



Cybersecurity Assurance Program (CAP)



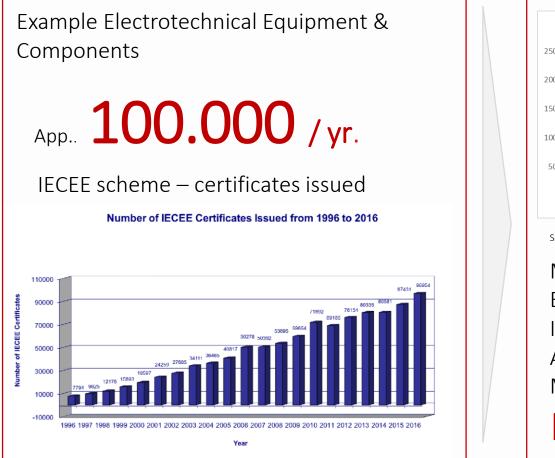
Building Blocks of a Conformity Assessment System

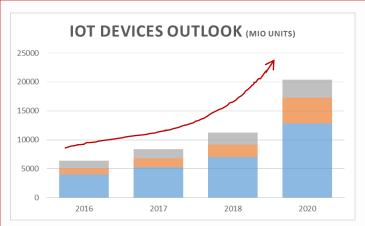




Areas of consideration for Cybersecurity Conformity Assessment







Source: Gartner 1/2017

Machinery Industry, Electrotechnical Equipment, IoT, Industry 4.0, Automotive, Medical Devices will require MillionS of CAs



Thank you!

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