



Standarisasi

Sinergi Standarisasi Nasional Untuk perguruan tinggi berdampak

Zul Amri

Sinergi Standardisasi Nasional Untuk perguruan tinggi berdampak

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Standardisasi

TEMPO

Menu

Harian

Mingguan

Tempo Plus

Ekonomi

Ekonomi

Sinyal Pasar

Bisnis

Kelestarian

84 Kasus Tabung Elpiji Meledak Hingga Kini

Penyebab ledakan selain aksesori elpiji tidak berstandar, juga karena keterbatasan pengetahuan masyarakat, dan pihak tertentu mencari keuntungan.

26 Agustus 2010 | 13.00 WIB



Kecelakaan parah tanpa helm sangat berisiko fatal karena 8 dari 10 cedera kepala parah terjadi akibat tidak menggunakan pelindung ini. Dampak benturan langsung disorot oleh kepala yang mengakibatkan trauma kepala, pendarahan otak, hingga

Standar

- Proteksi
 - Keselamatan, Kesehatan, lingkungan, mutu dll
- Daya saing
 - Meningkatkan kepercayaan terhadap produk
 - Promosi produk
 - Mempermudah akses pasar dalam dan LN
- Fasilitasi Perdagangan
- Efisiensi dan produktifitas
- Jaminan mutu
- Cost savings
- Akses pasar dan perdagangan
- Innovation dan Pengembangan
- Kepuasan pelanggan
- Pemenuhan legal dan regulasi
- Environmental benefit



- Perjanjian WTO

2.2 Members shall ensure that technical regulations are not prepared, adopted or applied with a view to or with the effect of creating unnecessary obstacles to international trade. For this purpose, technical regulations shall not be more trade-

- Hak negara

- Keselamatan, Kesehatan, Sustainability dll

- Standardisasi dan Penilaian Kesesuaian

2.4 Where technical regulations are required and relevant international standards exist or their completion is imminent, Members shall use them, or the relevant parts of them, as a basis for their technical regulations except when such international standards or relevant parts would be an ineffective or inappropriate means for the

- Konsensus internasional



The Six Principles of Standardization

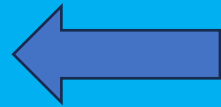
To ensure international standards are globally relevant and accepted, the TBT Committee established **Six Principles** for standards

development:  World Trade Organization

1. **Transparency:** All stages of standards development must be open and accessible.
2. **Openness:** Participation must be open to all relevant stakeholders.
3. **Impartiality and Consensus:** Standards should not favor any specific interest, and their creation must be driven by consensus.
4. **Effectiveness and Relevance:** Standards must address market needs and global challenges without hindering innovation.
5. **Coherence:** To avoid conflicts and duplication, standards should be aligned with other regional and international benchmarks.
6. **Development Dimension:** Special consideration must be given to the specific needs of developing countries. 

Standar

Regional/International

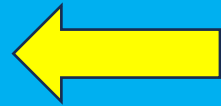


Market leader



International trade

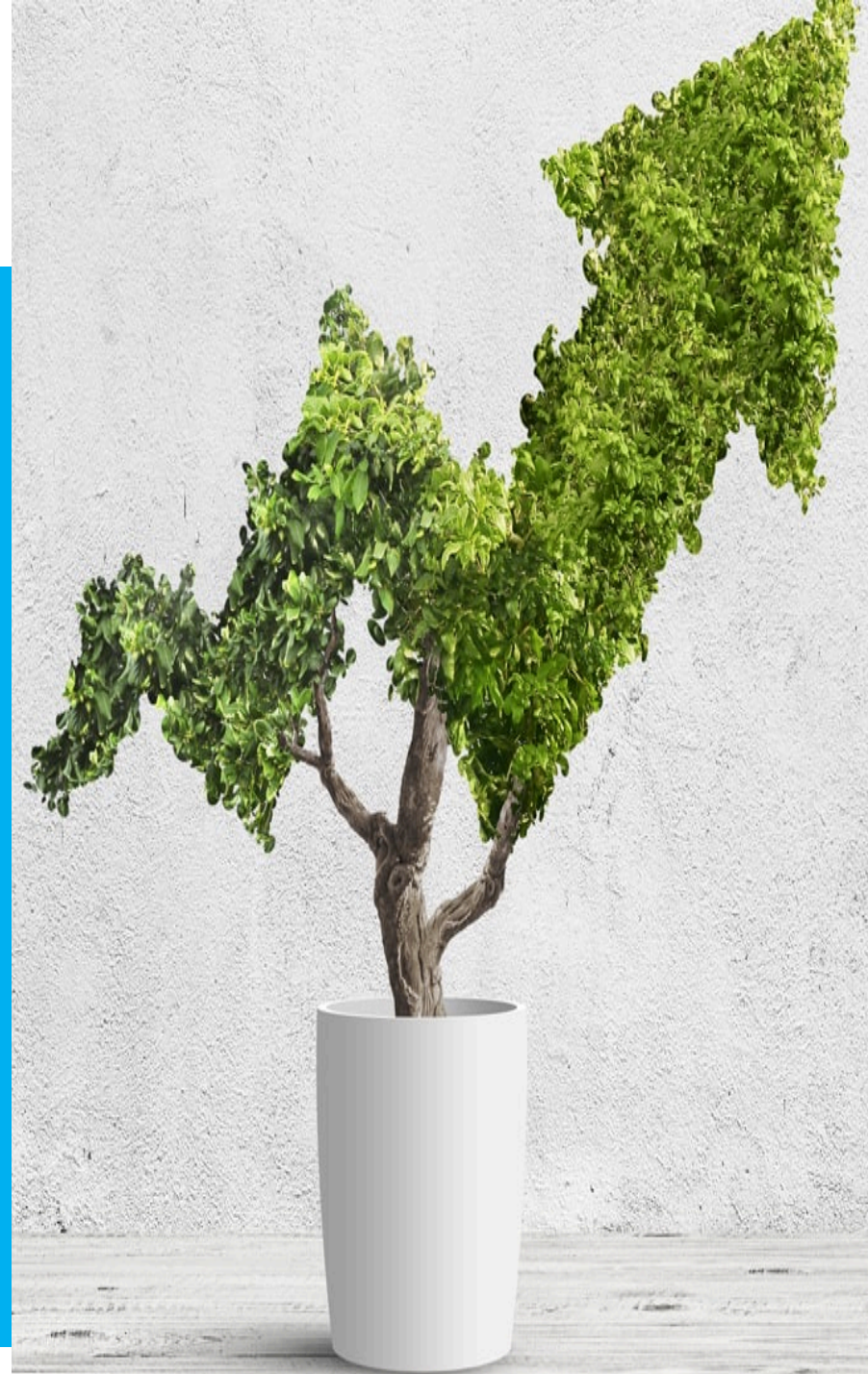
Nasional



compliance



buruk

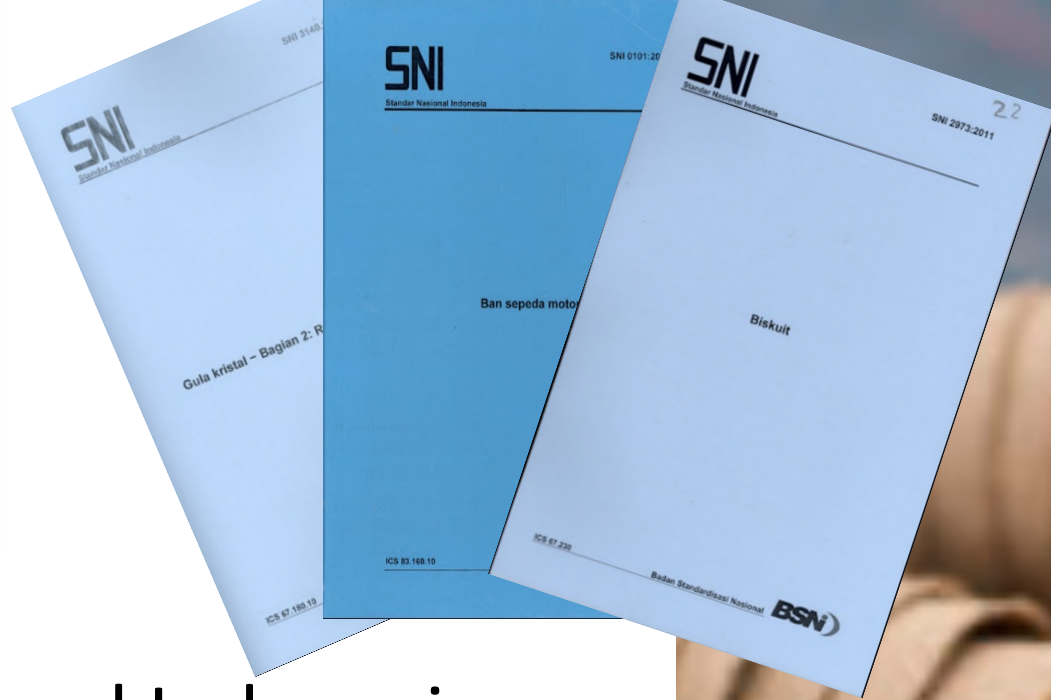


Infrastruktur mutu

- A Quality Infrastructure System (QIS) is a combination of initiatives, institutions, organizations, activities and people. It includes a national quality policy and institutions to implement it, a regulatory framework, quality service providers, enterprises, customers and consumers (who include citizens as “consumers” of government services).

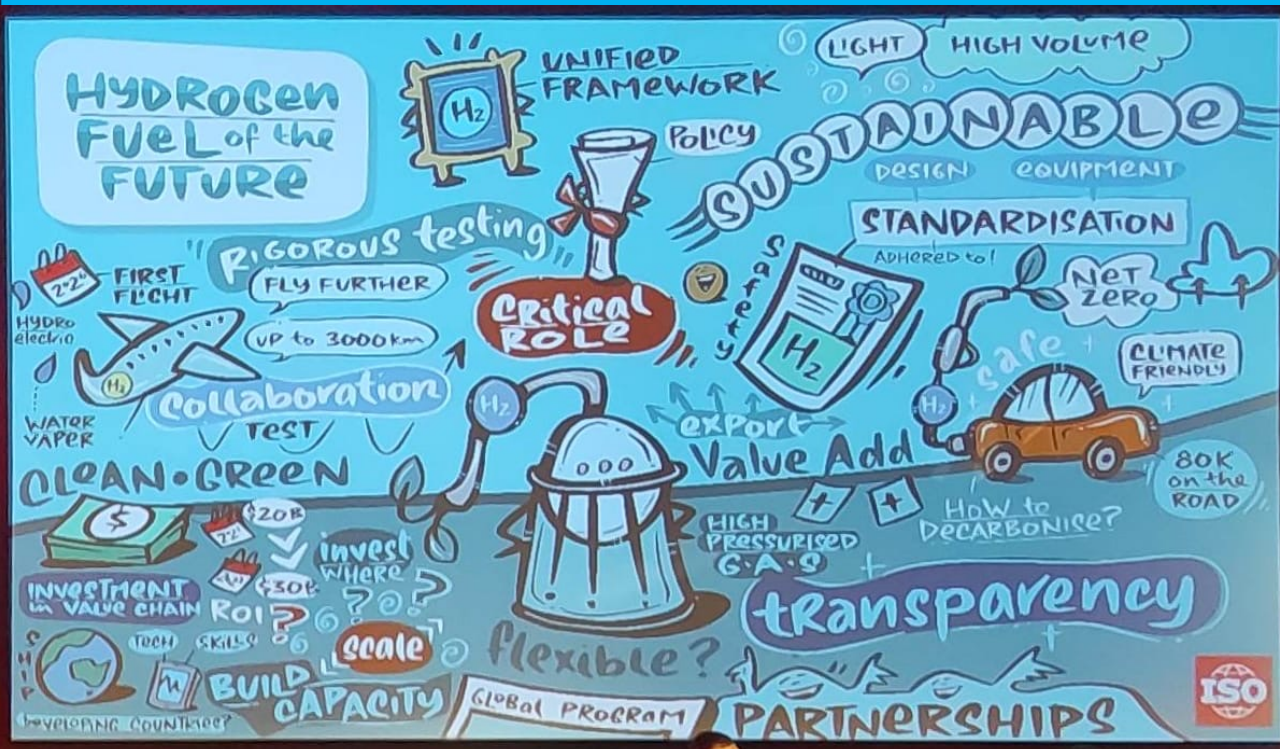
National Quality Infrastructure

- Standardisation
- Metrology
- Accreditation
- conformity assessment services,
- market surveillance.



- Standar Nasional Indonesia
- Konsensus
- Di kembangkan komtek
- Komtek tersebar di KL terkait
- Keterlibatan stakeholder
- Transparan
- Di koordinasikan BSN





No.	Jenis Uji	Satuan	Persyaratan
1.	Kadar air (b/b)	%	Maks. 10
2.	Biji berkapang (b/b)	%	Maks. 8
3.	Serangga utuh mati	ekor	Maks. 4
4.	Kotoran mamalia	Mg/lbs	Maks. 0
5.	Kotoran binatang lain	Mg/lbs	Maks. 0,0
6.	Benda asing (b/b)	%	Maks. 0,00

Keamanan - Pala

4.7 Ketahanan ban pada berbagai kecepatan (*high speed*)

Keamanan - Ban

4.7.1 Setelah pengujian selesai, ban yang diuji harus terbebas dari kerusakan-kerusakan pemisahan (*separation*), pengelupasan (*chunking*), sambungan terbuka (*open splice*), retak (*cracking*) pada telapak, dinding samping, *ply cord*, *inner liner*, *belt/breaker* dan *bead*, dan benang putus (*broken cord*).^[1]

4.7.2 Ban yang diuji pada kecepatan 300 km/jam (simbol kecepatan "Y") atau lebih, timbulnya *blister* pada permukaan *tread* akibat peningkatan panas setempat pada alat uji dapat diterima.^[1]

7 Daya lampu

Kinerja - Lampu LED

Daya yang dipakai oleh lampu-LED tidak boleh melampaui di atas 15 % dari nilai daya pengenal.

8 Kuat cahaya

kuat cahaya awal lampu-LED yang diukur tidak boleh kurang dari 90 % nilai kuat cahaya pengenal.

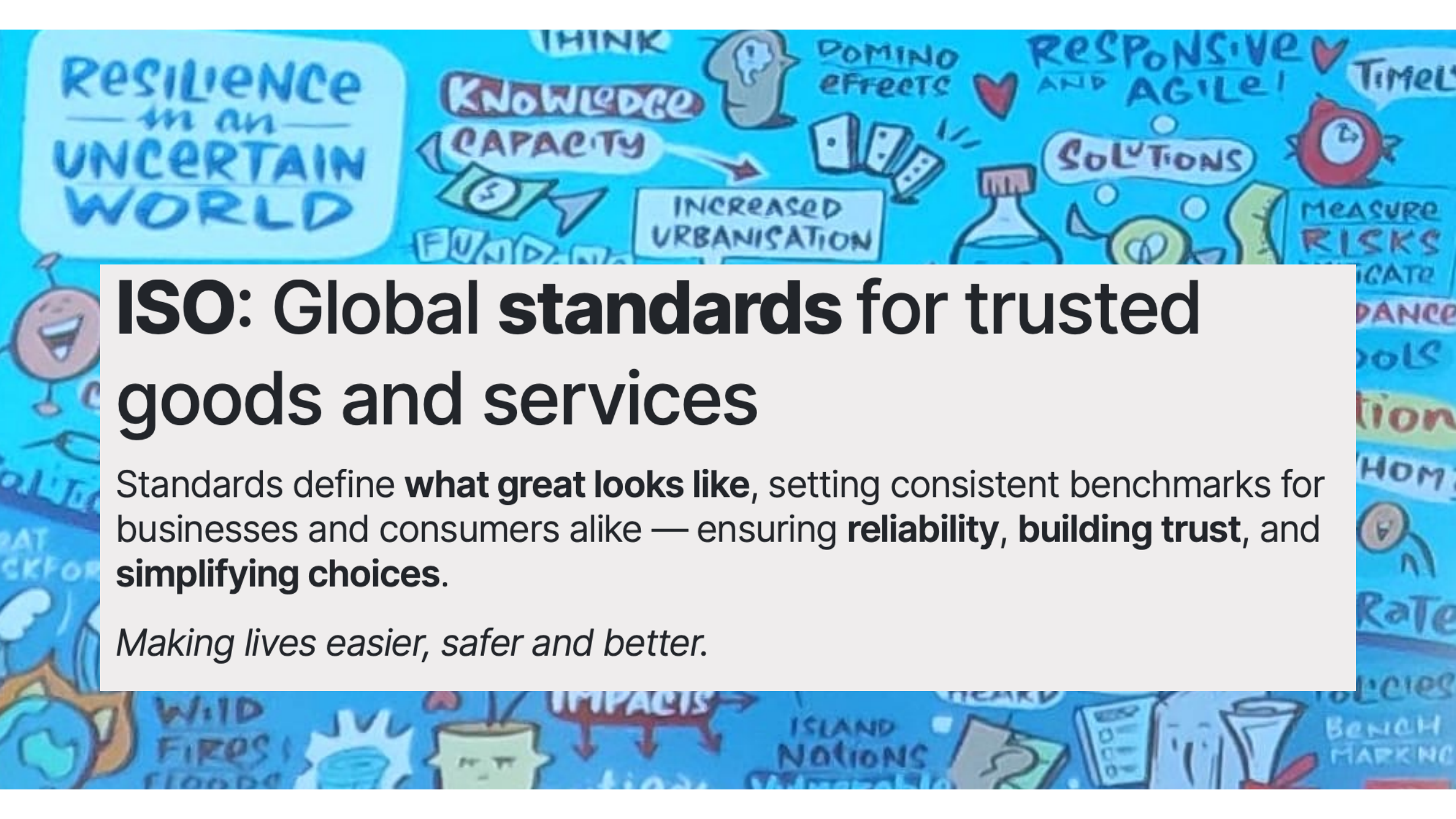
4	Pemakaian air dan energi	Air : tidak lebih dari 20 m ³ /ton kertas
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Lingkungan –
Ekolabel kertas

Statistik SNI

Data per Juni 2026

No.	Sektor	SNI
1	Pertanian dan teknologi pangan	1,990
2	Konstruksi	732
3	Elektronik, teknologi informasi dan komunikasi	548
4	Teknologi perekayasaan	1,651
5	Umum, infrastruktur dan ilmu pengetahuan	673
6	Kesehatan, keselamatan dan lingkungan	1,046
7	Teknologi bahan	2,525
8	Teknologi khusus	239
9	Transportasi dan distribusi pangan	541
Jumlah		9,945



ISO: Global standards for trusted goods and services

Standards define **what great looks like**, setting consistent benchmarks for businesses and consumers alike — ensuring **reliability**, **building trust**, and **simplifying choices**.

Making lives easier, safer and better.

Badan standar internasional



International SDO

We are ISO,
the International Organization
for Standardization



We are an independent,
non-governmental organization.



We are a global network of
national standards bodies with
one member per country.



Our job is to make International
Standards.

161*
members

22 000*
International Standards

100
new standards each month

245*
technical committees



that help to support the technology's safe and
ISO/IEC 42001 (management system), ISO/IEC 2505

In a bid to ensure that standards and conformity
continue to meet the needs of its users, the IEC Smart
pilots with a number of national committees and con
Smart Standards will enable seamless machine-ap
so that they can be integrated into systems and pr
interoperability and agility.

The IEC Global Impact Fund signed its first project,
in Africa – turning battery e-waste into e-resource
an international provider of solar energy services i
promoting sustainable battery e-waste management

The new environment-focused services by IECQ, ec
product claim verification and hazardous substance |
as horizontal services in and beyond the electrotec
industries.

IECEE has been developing a concept for a new type of
direct market access without issuing certificates. ⁷
bodies but might handle other conformity assessm
approvals or registrations. This allows a broader acc

Most Popular ISO Standards



ISO 9000 FAMILY – QUALITY MANAGEMENT

The ISO 9000 family is the world's best-known quality management standard for companies and organizations of any size.



ISO/IEC 27001 – INFORMATION SECURITY MANAGEMENT

Providing security for any kind of digital information, the ISO/IEC 27000 family of standards is designed for any size of organization.

ISO 13485 MEDICAL DEVICES

Manage quality throughout the life cycle of a medical device with ISO 13485.

ISO 14000 FAMILY ENVIRONMENTAL MANAGEMENT

Improve your environmental performance with this family of standards.

ISO/IEC 17025 TESTING AND CALIBRATION LABORATORIES

Testing and calibration performed using standard methods, non-standard methods, and laboratory-developed methods

ISO 20121 SUSTAINABLE EVENTS

Manage the social, economic and environmental impacts of your event with this standard.

ISO 22000 FOOD SAFETY MANAGEMENT

Inspire confidence in your food products with this family of standards.

ISO 26000 SOCIAL RESPONSIBILITY

Help your organization to operate in a socially responsible way with this standard.

ISO 31000 RISK MANAGEMENT

Manage the risks that could jeopardize your company's performance with this ISO standard.

ISO 37001 ANTI-BRIBERY MANAGEMENT SYSTEMS

Prevent, detect and address bribery.

ISO 45001 OCCUPATIONAL HEALTH AND SAFETY

Reduce workplace risks and make sure that everyone gets home safely with ISO 45001.

ISO 50001 ENERGY MANAGEMENT

ISO's standard for helping organizations manage their energy performance.

www.iso.org

Fokus

- UMK
- SDGs
- Climate action
 - Publish > 500
 - Under development : 376
 - Kenaikan suhu kurang 1,5 derajat
 - Pengurangan emisi
 - Net zero
 - Pasar karbon
- circular economy
 - sustainable consumption of materials
 - durability, reusability, upgradability and repairability, recyclability
 - Kebutuhan conformity assessment

Pengantar SPK 2022

Sustainability programme - Regional forums (1).pdf (page 1 of 16)



Sustainability programme



Why a Sustainability Programme?

- Further outline the Organization's strategic vision
- Deliver on ISO's public commitment to supporting the Paris Agreement and the United Nations Sustainable Development Goals (SDGs)
- Significantly enhance and make visible ISO contribution to sustainability
- Ensure a holistic and coordinated approach to multiple initiatives



Fokus

- digital transformation
- Sustainability dan SEG
- Energy
 - Sumber
 - EV
- Smart manufacturing





**Environmental
management**



**Communicating
on environmental
performance**



**Quantifying
GHG emissions**



**Opening world markets
to clean energy**



**Mitigation
and adaptation**



**Monitoring
climate change**



**Financing climate
change activities**



and many more...



Resilience



Disaster prevention



Sensor



Alarm systems



Emergency lighting



Disaster recovery



Risk management



Environmental condition
classification



Sustainability



Smart cities



Smart energy



Smart transportation



Smart manufacturing

Environmental sustainability

Environmental management Circular economy Air quality Climate change Smart cities Soil quality

Water quality Other

Top standards

Standard
ISO 14064-1:2018
Greenhouse gases
Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals

Published

Standard
ISO 14067:2018
Greenhouse gases
Carbon footprint of products
Requirements and guidelines for quantification

Published

Standard
ISO 14001:2015
Environmental management systems
Requirements with guidance for use

Published

← TC

Standards by ISO/TC 207

Environmental management

Subcommittee ↑	Subcommittee Title	Published standards	Standards under development
ISO/TC 207/SC 1	Environmental management systems	13	5
ISO/TC 207/SC 2	Environmental auditing and related practices	3	3
ISO/TC 207/SC 3	Environmental labelling	8	3
ISO/TC 207/SC 4	Environmental performance evaluation	9	1
ISO/TC 207/SC 5	Life cycle assessment	18	2
ISO/TC 207/SC 7	Greenhouse gas and climate change management and related activities	17	11



CA Internasional - Regional



APAC



AB



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akreditasi



- Laboratorium : Uji – Kalibrasi – Medik
- Lembaga Inspeksi
- Lembaga Validasi/ Verifikasi
- Penyelenggara uji profisiensi
- Produsen bahan acuan
- Sistem manajemen : Mutu, Lingkungan, Energi, Keamanan Informasi, Keamanan pangan, HACCP, Alkes, Keamanan rantai pasok, K3, Biorisiko Lab, Anti penyuapan, organisasi Pendidikan
- Person
- Produk, Organik, Ekolabel, Halal, Usaha pariwisata
- Penilai dan Verifikasi Independen, ISPO, PUHK, SFM

Terima kasih