

TELECOMMUNICATION EQUIPMENT STANDARDIZATION AND CONFORMITY ASSESSMENT IN INDONESIA

Nur Akbar Said

Deputy Director of Quality of Service and Standards Harmonization, Directorate of Standardization of Posts and ICT Equipment Ministry of Communication and Information Technology of the Republic of Indonesia

Shenzhen, 10 September



Strategic Location

- Crossroads two oceans
- Bridges two continents

Largest Archipelago

- 17,508 islands
- 5 main islands, 6,000 inhabited islands
- Sea area: 4 times land area
- Stretching from east to west: 5,150 kms
- Population: 262 M, 500 ethnics, 700 languages & dialects. Bahasa Indonesia is the official language



LEGAL FRAMEWORK FOR TELECOM EQUIPMENT STANDARDIZATION

Every telecommunications equipment traded, made, assembled, imported and/or used in Indonesia territory required to comply with technical regulation and based on license in line with prevailing laws and legislation – Article 32 clause 1 of Telecommunication Law

> Source: Law Number 36 Year 1999 concerning Telecommunication

LEGAL FRAMEWORK FOR TELECOM EQUIPMENT STANDARDIZATION

•To ensure telecommunication network interoperability

Objectives of technical regulation.

•To avoid interference among telecommunication equipment

•To ensure public safety

•To support national telecommunication industry, innovation and engineering

Source.

Article 72. Government Regulation Number 52 Year 2000 concerning

Telecommunication Provision

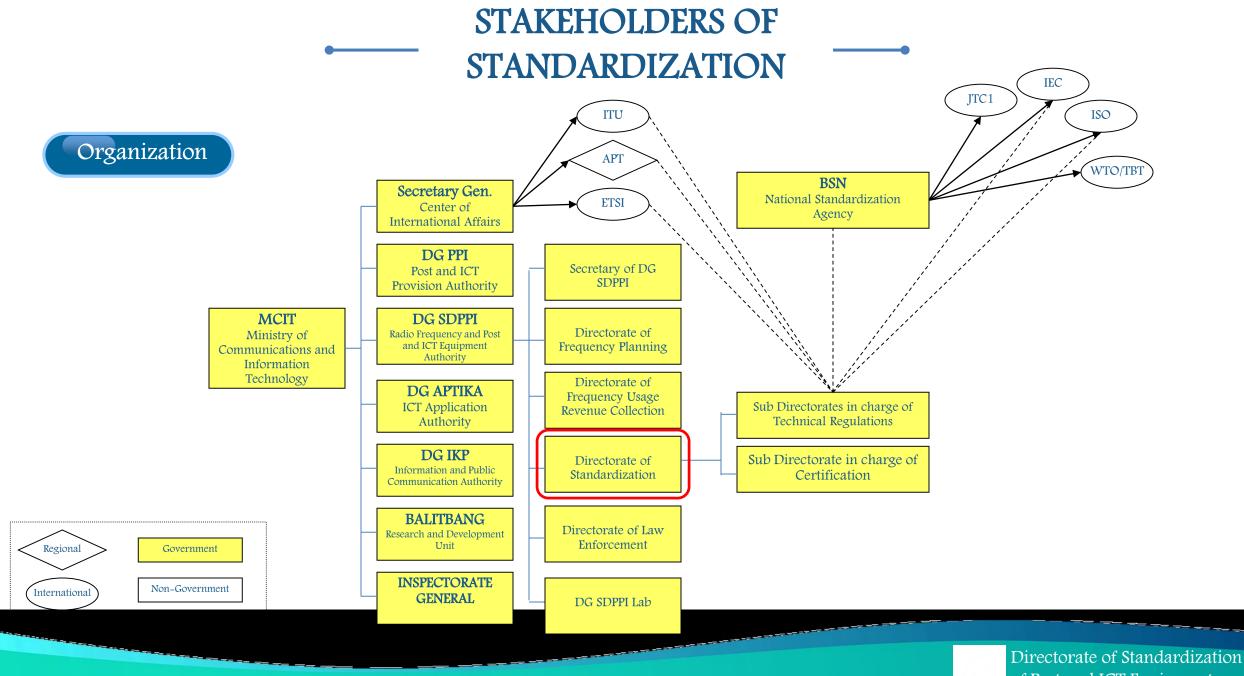
LEGAL FRAMEWORK FOR TELECOM EQUIPMENT STANDARDIZATION

► Technical regulation establishment.

- Minister endorses technical regulations taking into consideration all inputs from technical committee consisting of stakeholders (industry, telecommunication network operators/service providers, society, research institution, consumer organization and universities)
- ► Technical regulation is formulated based on.
 - a. Adoption of international or regional standards;
 - b. Adaptation of international or regional standards; or
 - c. Adoption of Standards developed by national telecommunication industry (Indonesia National Standard)

Source:

Article 73, Government Regulation Number 52 Year 2000 concerning Telecommunication Provision



of Post and ICT Equipment

TECHNICAL REGULATION SCOPE

Technical Regulations (TR) has been issued by Minister to make voluntary standards mandatory.



Netwok Equipment

- Switch/node
- IP
- Transport/transmission



Access Equipment
– Wireline

- Wireless
 - > Terrestrial
 - Satellite
 - Broadcasting
 - Specific use (repeater, radar)





- Wireline
- Wireless

Listed in:

http://www.postel.go.id/regulasi-peraturan-menteri-40

http://www.postel.go.id/regulasi-keputusan-direktur-jenderal-41

http://www.postel.go.id/regulasi-peraturan-direktur-jenderal-42



- Government Regulation Number 50 Year 2000 concerning Telecommunication Provision
 - Article74:
 - Minister issues certificate of type approval for telecommunication equipment fulfilling technical requirement based on test report.
 - Telecommunication equipment testing conducted by accredited test house designated by Minister.
 - Article 75.
 - Minister may enter into mutual recognitions of technical requirement implementation aspect of telecommunication equipment with other country.
 - The mutual recognitions follow prevailing provisions.

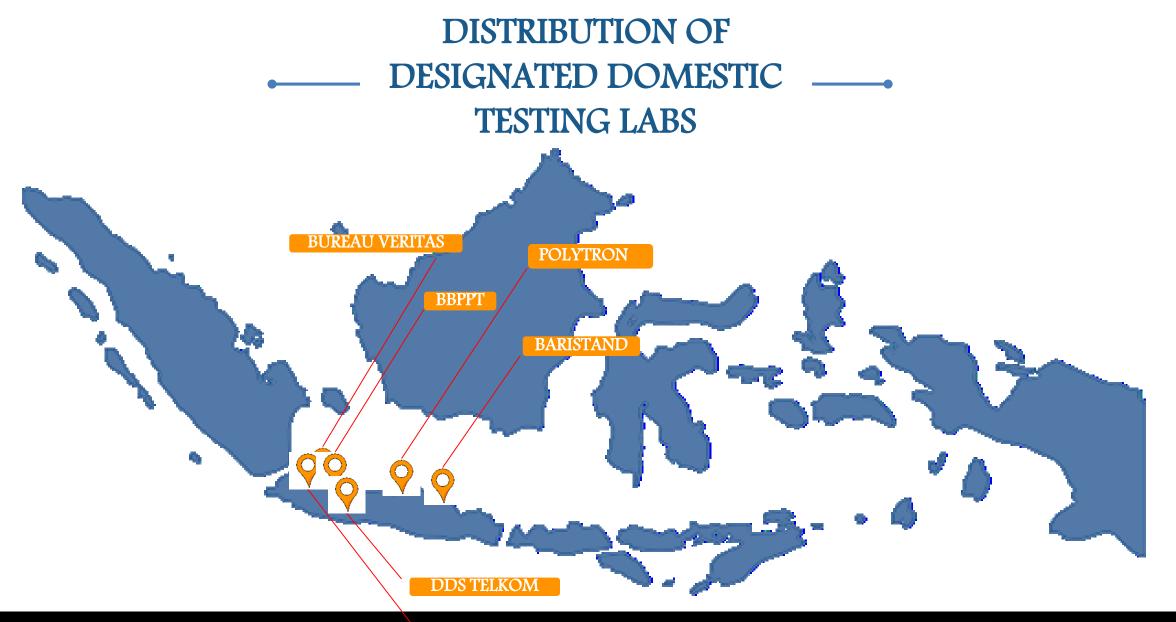
CONFORMITY ASSESSMENT BODIES

CAB for Certification

• Through Ministerial Regulation Number 29 Year 2009 (revised by Number 18 Year 2014) concerning Certification of Telecommunication Equipment, Minister delegates the certification function to Director of Standardization of Directorate General of SDPPI

CAB for Testing

• Director of Standardization accept interconnectivity/interoperability test report from 6 domestic testing laboratories. Full information please access: https://sertifikasi.postel.go.id/elab



BPPT







DESIGNATED TESTING LABS

BBPPT Kemkominfo

ab EMC BPPT

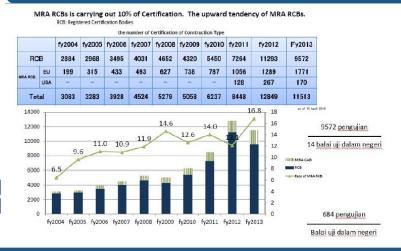
Lab RF Bureau

BBPPT testing load in 2013: 3358 testing

5 times of the testing load in Japan

7 times of the testing load in Taiwan

Current Condition. Benchmark to Japan



Current Condition. Benchmark to Taiwan

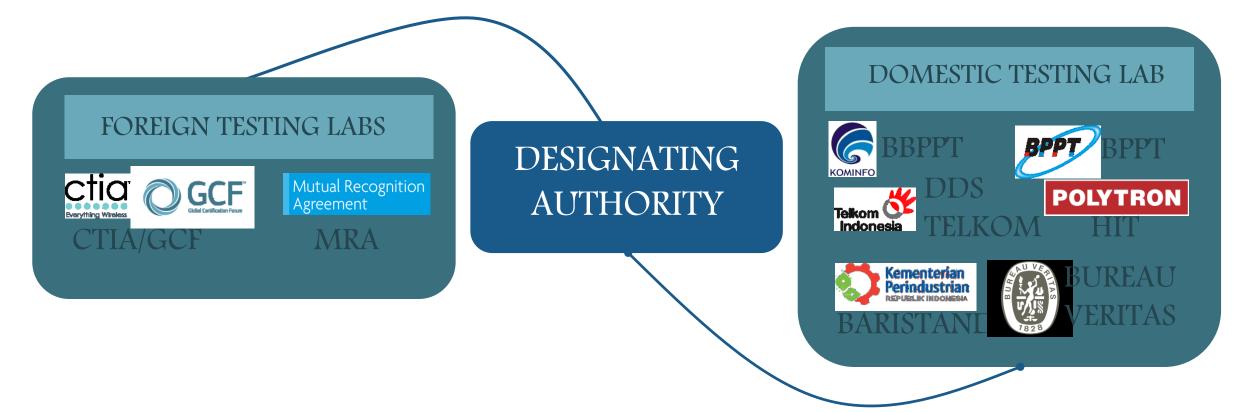
- In 2013, telecommunication equipment was tested by 8 local test labs.
- Number of certificates and post market surveillance.

Туре	# of Certificate	# of Sample	Sample Rate	Failed
LP CTRFD	2774	154	5.55%	1
TTE	967	55	5.69%	0

3741 pengujian 8 balai uji dalam negeri

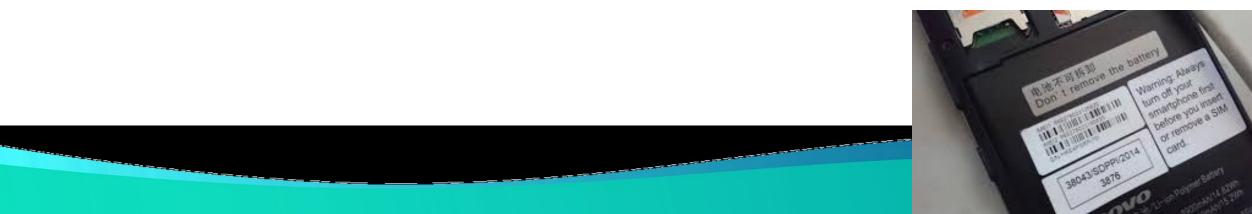
balai uji dalam negeri

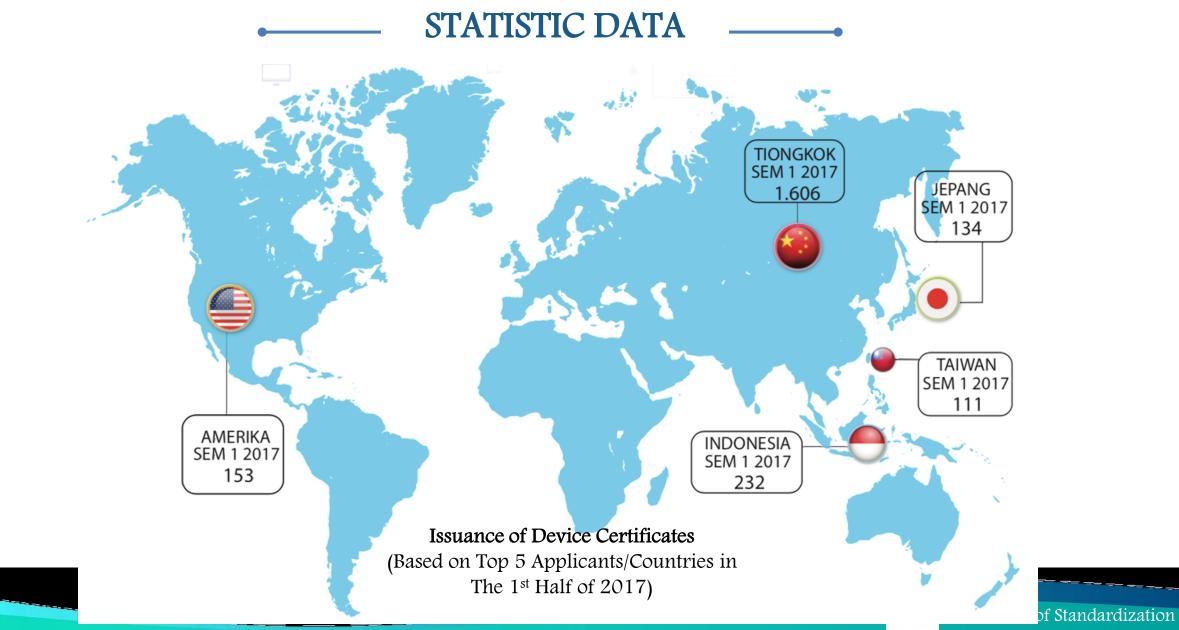
468 pengujian



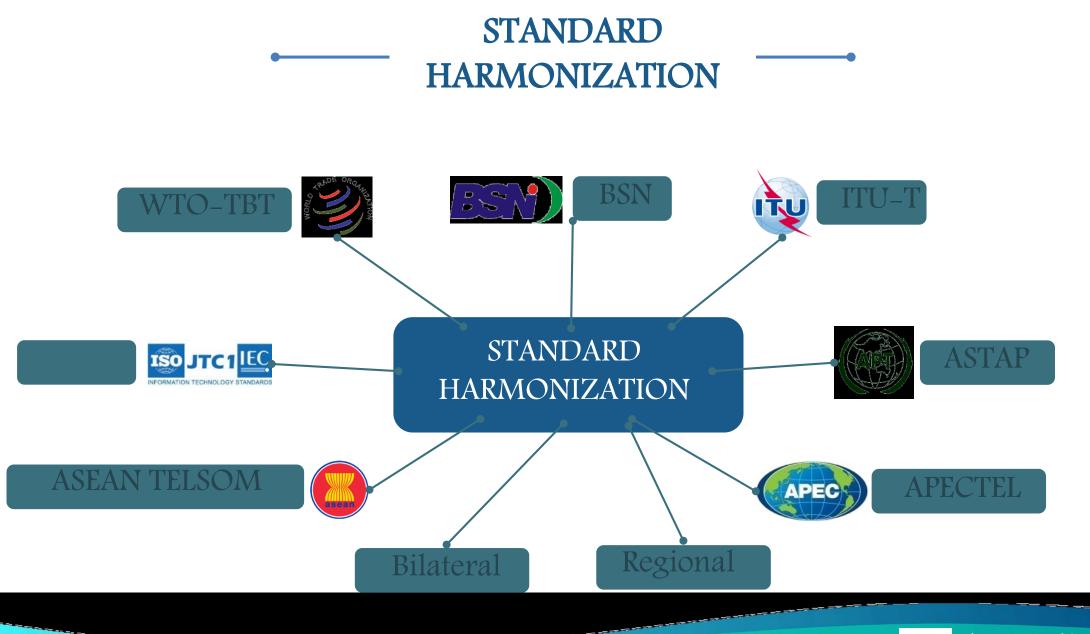


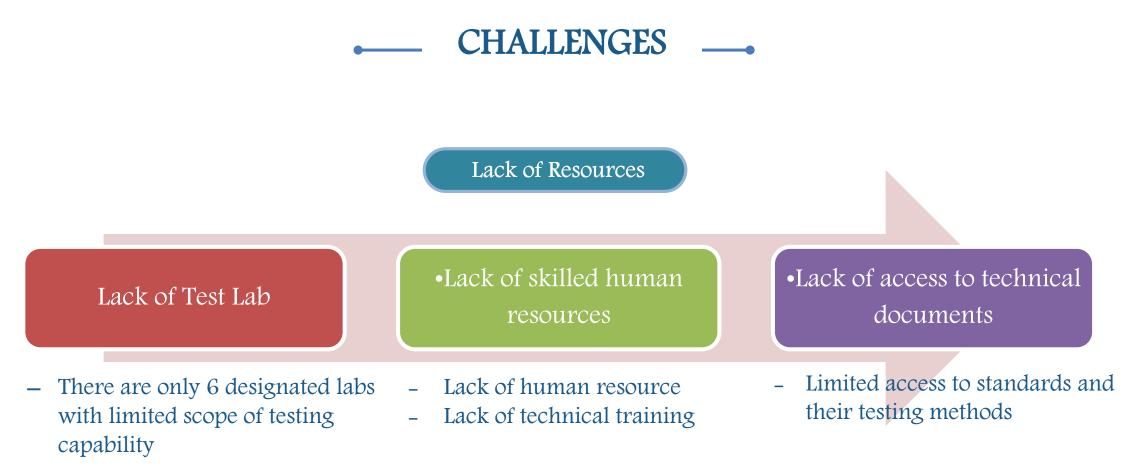
- Certification labels are required for every single equipment marketed in Indonesia.
- Manufacturer is responsible to produce the label and affixed it into the equipment.
- Label must prominently display two components of information. number of certificate and PLG.ID number (application identity number) which can be obtained from the certificate.
- Size of label is depending on the size of the equipment and it shall be visible by bare eyes.
 - In any case that the equipment is not possible to affix the label, the appearance of label in manual book and product packaging is allowable.
- Markings and lettering can be of any size or color.





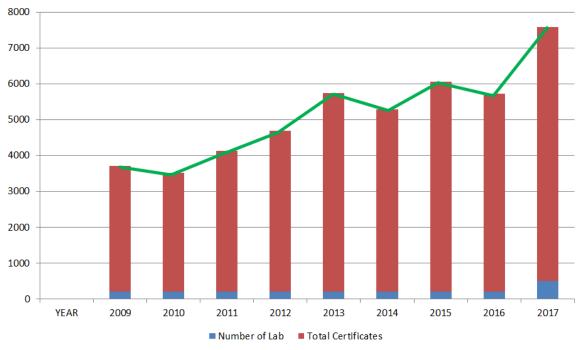
of Post and ICT Equipment





- Lack of testing facilities
- The test labs concentrated in Java

MRA OPPORTUNITY –





YEAR	Number of Test Lab	Total Certificates
2009	2	3505
2010	2	3312
2011	2	3923
2012	2	4491
2013	2	5536
2014	2	5089
2015	2	5864
2016	2	5520
2017	5	7087

- Average testing load in 2017 : 1417 test / lab.
- IN REALITY: Test mostly done by gov't-own lab (BBPPPT), which increased their load to ± 3300 / year
- Additional labs are needed to lower the load of existing labs.
 - New labs can be obtained through MRA.

VISION OF THE FUTURE _____

5G/IoT Initiatives

- National Road Map of IoT (2019 2023)
- Development of IoT Maker Space and IoT Labs for product development, product testing, training programs among multi stakeholders: government, academia, industry, and community

C&I Initiatives

- Harmonization of regulations in complying with international standards
- Capacity buildings in human resources, testing infrastructures
- Cooperation with foreign testing labs through MRA

