



**Asia-Pacific
Economic Cooperation**

2017/SOM3/SCSC/JRAC/015

Agenda Item: 8a

**ASEAN Sectoral Mutual Recognition Arrangement
on Electrical and Electronic Equipment
(ASEAN EE MRA)**

Purpose: Information
Submitted by: ASEAN



**22nd Joint Regulatory Advisory Committee on
Electrical and Electronic Equipment Meeting
Ho Chi Minh City, Viet Nam
20 August 2017**



ASEAN Sectoral MRA on Electrical and Electronic Equipment (ASEAN EE MRA)

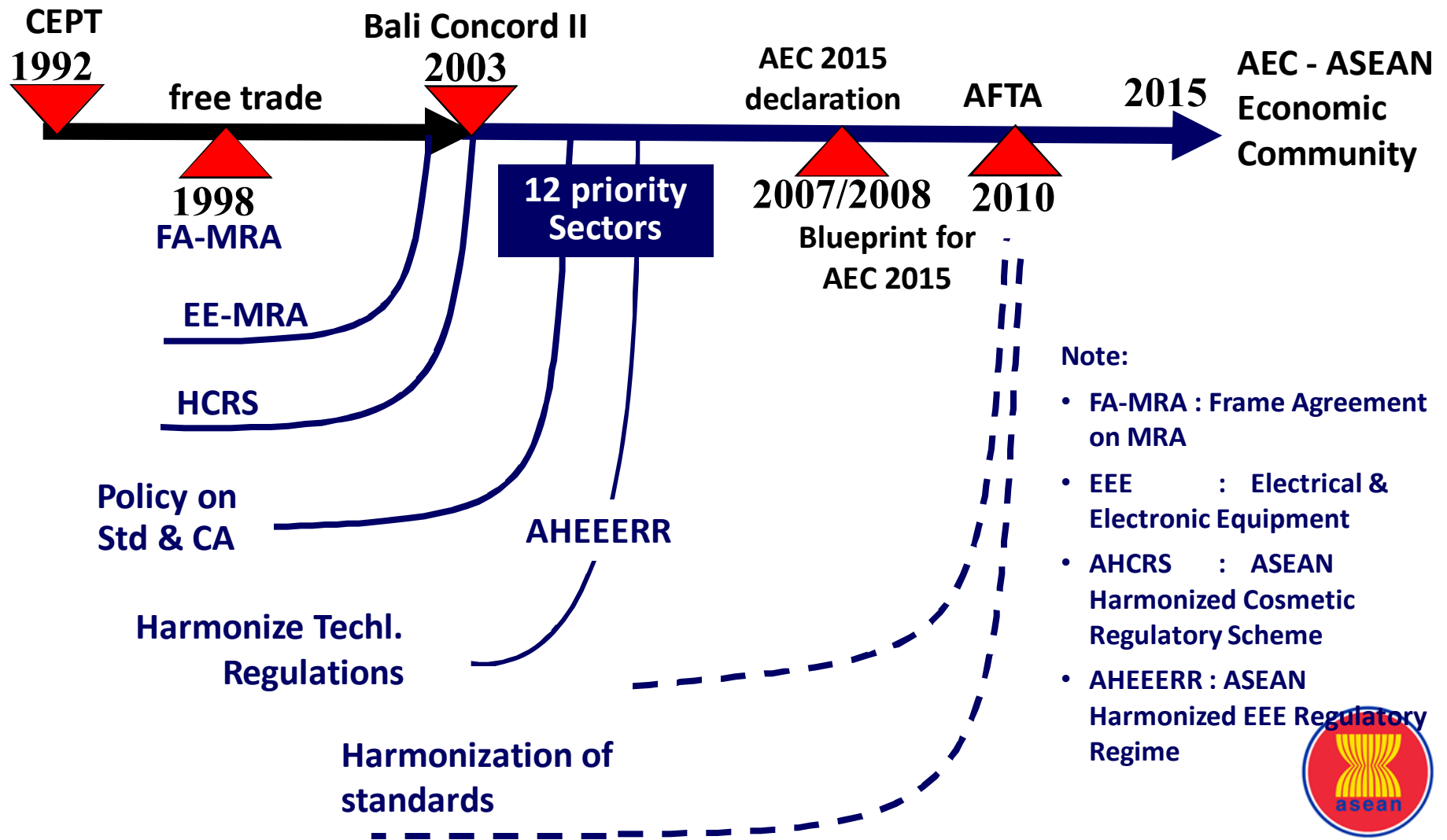


Association of South East Asian Nations (ASEAN) :-

- Established on 8 August 1967
- 10 member states : Brunei, Cambodia, Indonesia, Lao, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam
- Asean member states have committed to harmonise regulatory regimes on regulated EEE by 2015 to realise a common ASEAN market for EEE
- The agreement on ASEAN harmonised EEE regulatory regime (known as AHEEERR) was signed on 9 Dec 2005 by economic Minister
- It aims to :
 - protect life, health and property of ASEAN consumer while facilitating intra ASEAN trade.
 - eliminate restriction to trade of electrical equipment through harmonization of technical requirement
 - facilitate the negotiation for MRA on conformity Assessment between ASEAN country.



Roadmap of ASEAN to AEC 2015



ASEAN Economic Community

Strategic Schedule of the AEC Blueprint (2008-2015)

AEC Pillar 1

Single Market &
Production Base

- **Free flow of goods**
- Free flow of services
- Free flow of investment
- Freer flow of capital
- Free flow of skilled labor
- Priority Integration Sectors
- Food, agriculture and forestry

AEC Pillar 2

Competitive
Economic Region

AEC Pillar 3

Equitable
Economic
Development

AEC Pillar 4

Integration into
the Global Economy

Free flow of goods by
eliminating TBT

➤ **Standards & Conformance
(through ACCSQ)**

HUMAN RESOURCE DEVELOPMENT

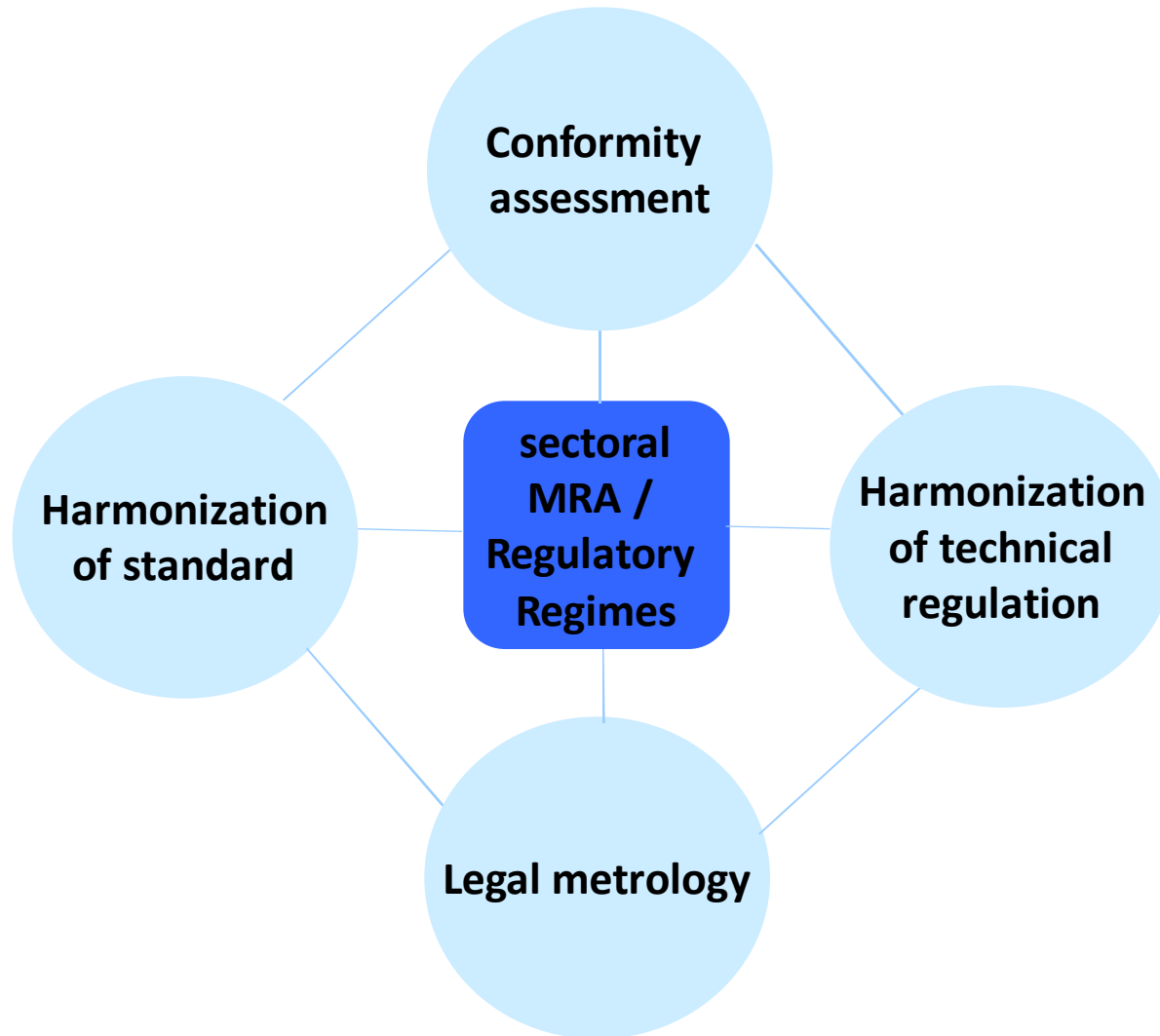
RESEARCH AND DEVELOPMENT

ASEAN CONSULTATIVE COMMITTEE FOR STANDARDS AND QUALITY (ACCSQ)

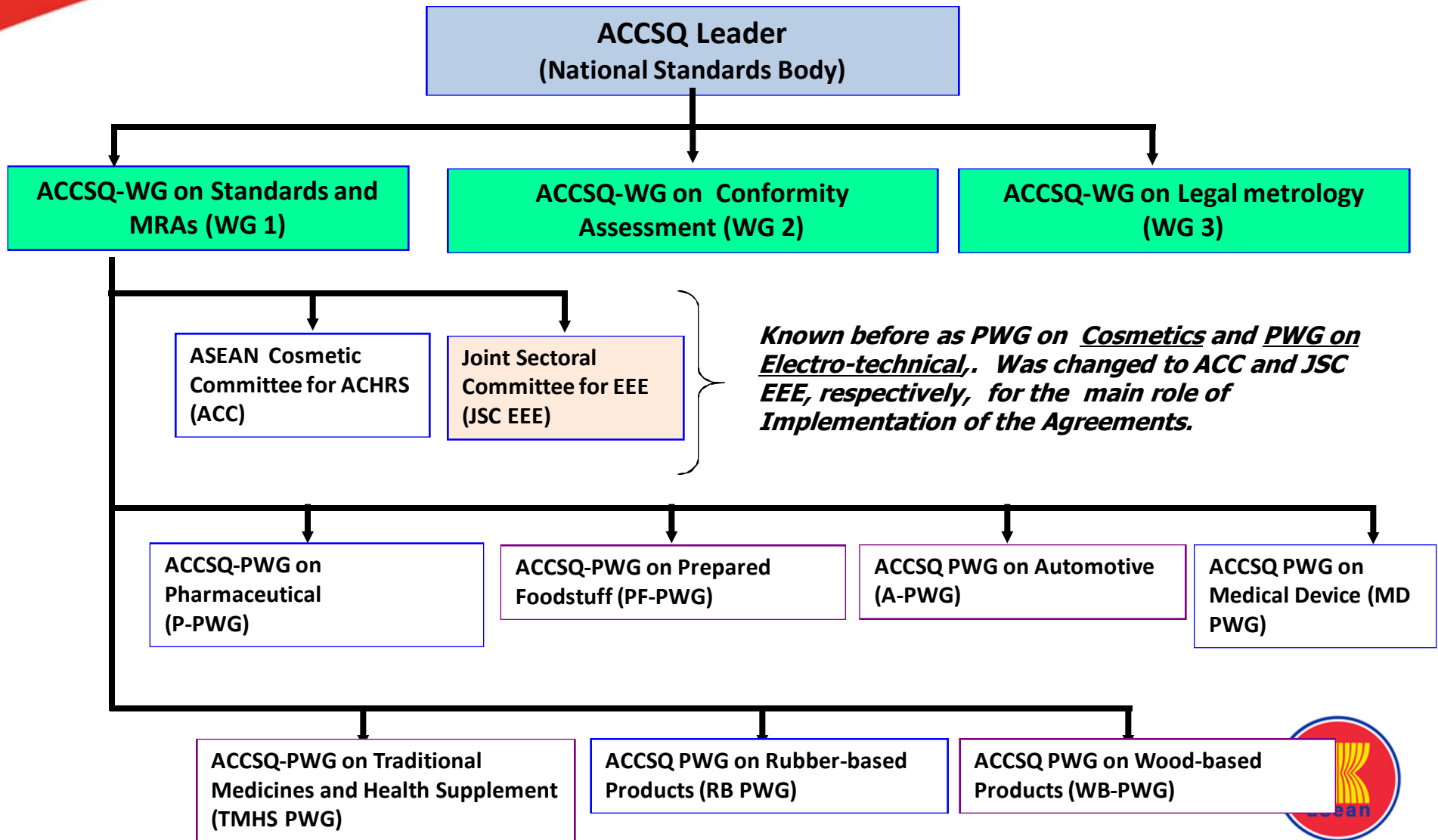
- ✚ Established in 1992 as a forum for ASEAN addressing the issue on MSTQ (*Measurement, Standards, Testing and Quality*) and elimination of TBT.
- ✚ Membership is by *National Standards Bodies* (NSBs) and Regulatory bodies of ASEAN Member States.
- ✚ Focused on priority product sectors:
 - Agro-based products (prepared foodstuff)
 - Automotive
 - Healthcare products (*Cosmetics, Medical Device, Pharmaceutical, Traditional Medicines and Health Supplements*)
 - Rubber-based
 - Electrical and Electronic Equipment
 - Wood based products
 - Building and Construction materials



SCOPE OF ACCSQ (Horizontal)



ACCSQ STRUCTURE



Slide 7

ICES

I changed "DALAM" to "IN"

Isagani Creencia Erna, 10/30/2014



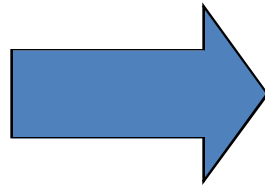
***ASEAN Single Market and
Production Base for Electrical
and Electronic Equipment (EEE)***





JSC EEE

*Joint Sectoral
Committee for
Electrical and
Electronic
Equipment*



Monitors the
implementation of :

- ✓ ASEAN Sectoral MRA on Electrical and Electronic Equipment (**ASEAN EE MRA**), and;
- ✓ ASEAN Harmonized Electrical and Electronic Equipment Regulatory Regime (**AHEEERR**)



JSEEEE Meeting Time Table

Number of JSC EEE Meeting	Venue/ Host	Date	Remarks
1 st JSC EEE	Manila, Philippines	5-7 July 2006	Completed
2 nd JSC EEE	Singapore	23 – 24 Nov 2006	Completed
3 rd JSC EEE	Ha Noi, Viet Nam	20 – 22 April 2007	Completed
4 th JSC EEE	Kuala Lumpur, Malaysia	21- 22 Nov 2007	Completed
5 th JSC EEE	Bandar Seri Begawan, Brunei Darussalam	14-16 May 2008	Completed
6 th JSC EEE	Bali, Indonesia	4 – 5 Nov 2008	Completed
7 th JSC EEE	Vientiane, Lao PDR	29-30 April 2009	Completed
8 th JSC EEE	Kuala Lumpur, Malaysia	11-12 Nov2009	Completed
9 th JSC EEE	Thailand	11-12 May 2010	Completed
10 th JSC EEE	ASEAN Sec	26-27 Oct 2010	Completed
11 th JSC EEE	ASEAN Sec	11-13 May 2011	Completed
12 th JSC EEE	Brunei Darussalam	22-24 Nov 2011	Completed
13 th JSC EEE	Phnom Penh , Cambodia	30-31May 2012	Completed
14 th JSC EEE	Yogyakarta, Indonesia	20-22 Nov 2012	Completed
15 th JSC EEE	Vientiane, Lao PDR	28-30 May 2013	Completed
16 th JSC EEE	Kuala Lumpur, Malaysia	19-21 November 2013	Completed
17 th JSC EEE	Yangon, Myanmar	20-22 May 2014	Completed
18 th JSC EEE	Philippines	2-4 Dec 2014	Completed
19 th JSC EEE	Singapore	9-12 June 2015	Completed
20 th JSC EEE	Bangkok, Thailand	10-12 Nov 2015	Completed
21 st JSC EEE	Hanoi, Viet Nam	24-27 May 2016	Completed
22 nd JSC EEE	Brunei Darussalam	14 November 2016	Completed
23 rd JSC EEE	Cambodia	1 st week of April 2017	Completed
24 th JSC EEE	Indonesia	2 nd half of 2017	Confirmed
25 th JSC EEE	Lao PDR	1 st half of 2018	
26 th JSC EEE	Malaysia	2 nd half of 2018	



SCOPE ASEAN EE MRA / AHEEERR

- ***Covers all new electrical and electronic equipment (new means not second hand, refurbished or reconditioned)***
- ***Low Voltage Power supply (EEE intended to directly connected or plugged-in to LV or battery powered):***
 - ***50-1000V for AC***
 - ***75-1500V for DC***
- ***Not included products covered by the Telecommunication MRA***
- ***Not applicable to Medical equipment***



Check list for Participation in ASEAN EE MRA

TECHNICAL INFRASTRUCTURE

- ***Standards and Mandatory Requirements***
- ***Testing Laboratories***
- ***Certification system***
- ***National Accreditation Scheme***

PREPARATION FOR APPLICATION

- ***Designating body***
- ***Contact Point***



Testing Laboratory

- General requirements for the competence of testing and calibration laboratories
 - Accredited to ISO/IEC 17025
 - Accreditation process conducted in compliance with ISO/IEC 17011 : 2004 – Conformity assessment -- General requirements for accreditation bodies accrediting conformity assessment bodies
- Accreditation body:
 - Signatory Member of the Asia-Pacific Laboratory Accreditation Cooperation (APLAC MRA)
 - Membership to IEC EE CB Scheme



Certification Body

General requirements for bodies operating product certification systems :

- *Accreditation to ISO/IEC 17065*
- *Accreditation process conducted in compliance with ISO/IEC 17011 - Conformity assessment -- General requirements for accreditation bodies accrediting conformity assessment bodies*

Accreditation body:

- Member of the Pacific Accreditation Cooperation (PAC)
- Signatory to the PAC MRA
- Membership of IEC EE FCS Scheme



AHEEERR Principle

Based on regulated EEE complying with an “Essential Requirements” which means complying with :-

- Specified harmonised Std & conformity assessment regime
- Harmonized regulatory requirement

Importers,
Manufacturers

Essential Requirements:
SAFETY, ENVIRONMENT, EMC.

Align to IEC Standards
Common conformity
assessment regime

Designated
Testing Labs

Designated
Certification Bodies

CABs Listing by JSC EEE

- Designating authority of each member country make proposal to JSCEEE for their CAB to be listed
- Table at JSCEEE for consideration
- Contestation period of 60 days
- Listed on Asean Sec website

Registration

Market

Registration by individual
AMS (regulator)





Certification System

• **Low Risk EEEs** → **System 1**

[Type Testing]

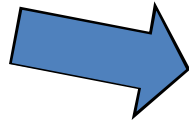
• **High Risk EEEs** → **System 5**

[Type Testing + Quality System Assessment + Surveillance]



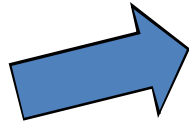
How to realize the AHEEERR

1. Review



- **Laws**
- **Technical Regulations / Mandatory Standards**
- **Administrative Provisions**

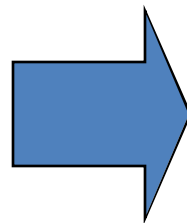
2. Amend



3. Develop

or

4. Establish



- **Post Market Surveillance System**
- **Safety Alert of unsafe EEEs**



Progress of AHEEERR as of May 2016

ASEAN EE MRA

- All AMS participate in the recognition of Test reports
- All AMS participate in recognition of Certificates
- Listed **22 Testing Laboratories and 9 Certification Bodies (as of April 2017)**



Listing of Conformity Assessment Body (CAB) Under ASEAN EEMRA

AMS	Testing Labs	Certification Bodies
Inonesia	1. PT HIT, Indonesia	1. Sucofindo International Certification Services (SICS)
	2. PT. Panasonic Manufacturing Indonesia	2. TUV Rheinland Indonesia
	3. Balai Pengujian Mutu Barang – Ministry of Trade Indonesia	3. Balai Sertifikasi Industri (BSI)
	4. Balai Besar Bahan dan Barang Teknik (B4T)	4. TUV NORD Indonesia
	5. PT Qualis Indonesia	5. Balai Pengujian Mutu Barang – Ministry of Trade Indonesia
	6. PT Sucofindo Laboratory	
Malaysia	1. SIRIM QAS International Sdn.Bhd	1. SIRIM QAS International Sdn.Bhd
Singapore	1. SETS Singapore	1. TUV SUD PSB Pte Ltd
	2. TUV SUD PSB Pte Ltd	
	3. Intertek Testing Services (S) Pte Ltd (Commercial & Electrical Div)	
	4. UL International-Singapore Pte Ltd	
Philippines	1. Omni Solid Services Inc – Solid Test Laboratory	
	2. TUV Rheinland Philippines, Inc. Philippine Laboratory	
Thailand	1. Electrical and Electronics Institute, Foundation for Industrial Development (EEI Thailand)	1. Electrical and Electronics Institute, Foundation for Industrial Development (EEI Thailand)
	2. Intertek Testing Services (Thailand) Ltd. (ITS Thailand-1)	
	3. Intertek Testing Services (Thailand) Ltd. (ITS Thailand-2)	
	4. TUV SUD PSB (Thailand) Limited	
	5. Electrical and Electronic Products Testing Center (National Science and Technology Development Agency) (PTEC)	
	6. TUV Rheinland Thailand	
	7. Japan Electrical Testing Laboratory (Thailand) Co., Ltd.	
Viet Nam	1. QUATEST 1, Vietnam	1. Vietnam Certification Centre (QUACERT)
	2. QUATEST 3, Vietnam	
	Total Testing Labs: 22 Total Certification Body: 9	



Progress of AHEEERR as of May 2016

AHEEERR

- **Ratification by all AMS** – completed
- **Transposition into national legislation/regulation**– CB, ID, MY, PH, SG, TH, VN - completed. No Regulation – BD, LA, MM hence no obligation to transpose
- **Listed Standards** – agreed on 121 IEC Standard
- **Risk Assessment Guidelines** – completed
- **Risk Assessment Scoring** – 9 products have been agreed to have common conformity assessment regime (CAR). Continuous scoring other EE products
- **Post market Surveillance Guide** – completed
- **Information Booklet** – on-going



23rd JSCEEE meeting in Siem Reap, Cambodia (3-6 April 2017)



Thank you

