



National & International Standardisation Activities in Malaysia

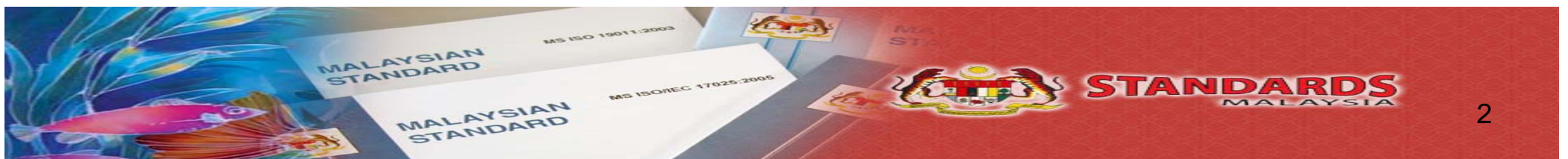
By
Department of Standards Malaysia
Overview on National Standards, Conformity Assessment and Metrology
(SCAM) Infrastructure



Department of Standards Malaysia

- *Content*

- Introduction to Department of Standards Malaysia
- National Standardisation activities
- Way Forward
- Conclusion






Department of Standards Malaysia

- *Background*

1. A Department Under the purview of the Ministry of Science, Technology & Innovation (MOSTI).

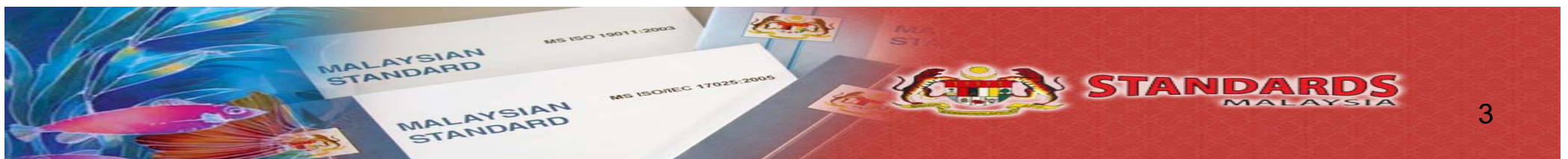


2. Governed by the Standards of Malaysia Act 1996 (Act 549).
3. The National Standards Body (NSB) as well as the National Accreditation Body.

4. 2006 - Re-branding of  to be known as

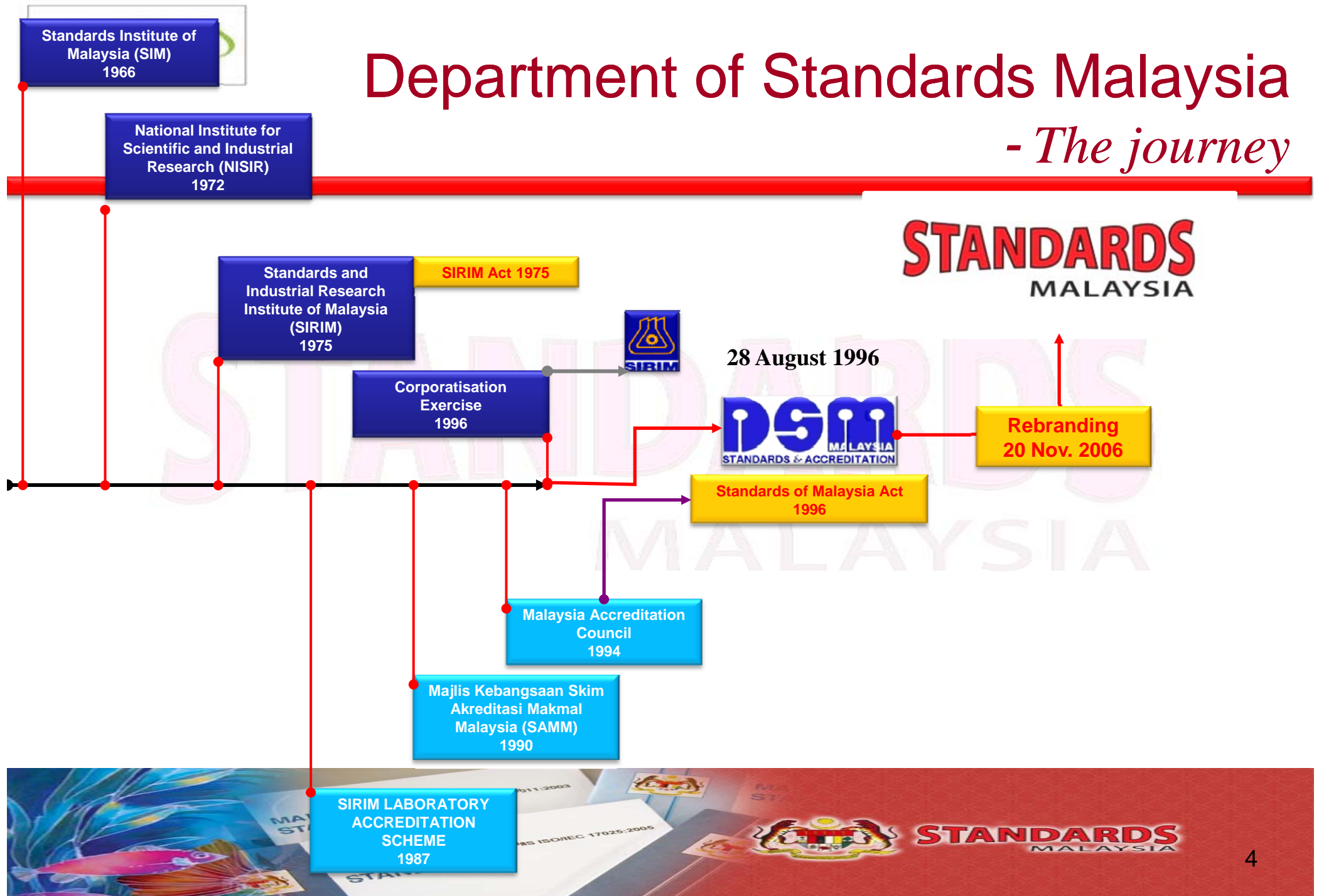


5. Two main functions:
 - a. Development and promotion of Malaysian Standards (MS)
 - b. Accreditation of conformity assessment bodies (CABs)



Department of Standards Malaysia

- The journey





Department of Standards Malaysia

- *Main Functions*

Standardisation



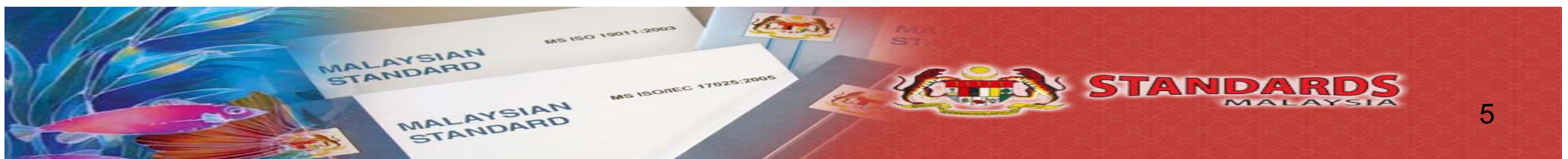
1. **Implement** policies and strategies for national standardisation;
2. **Recommend** Malaysian Standards for approval;
3. **Promote** the usage of Malaysian and international standard
4. **Represent** Malaysia in regional and international standardisation activities
5. **Promote co-operation** in standardisation activities within the country as well as with

STANDARDS
MALAYSIA

Accreditation



1. **Accredit** organisations engaged in conformity assessment activities: testing, calibration, inspection and certification of products and systems;
2. **Maintain** a register of accredited organisations and their marks of conformity;
3. **Represent** Malaysia in international and regional accreditation activities; and
4. **Facilitate** international and regional **recognition** of accredited organisations and

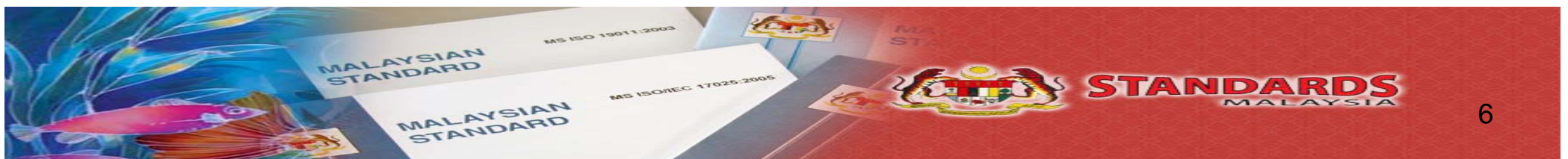




Department of Standards Malaysia

- *Definition*

- **Standardization (or standardisation)** is the process of developing and agreeing upon technical standards. A standard is a document that establishes uniform engineering or technical specifications, criteria, methods, processes, or practices.



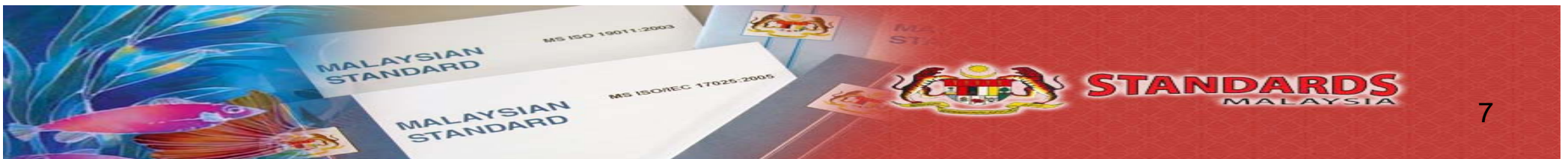


Department of Standards Malaysia

- *Definition*

ACCREDITATION - A procedure by which an authoritative body gives formal recognition that a conformity assessment body is **competent** to carry specific tasks

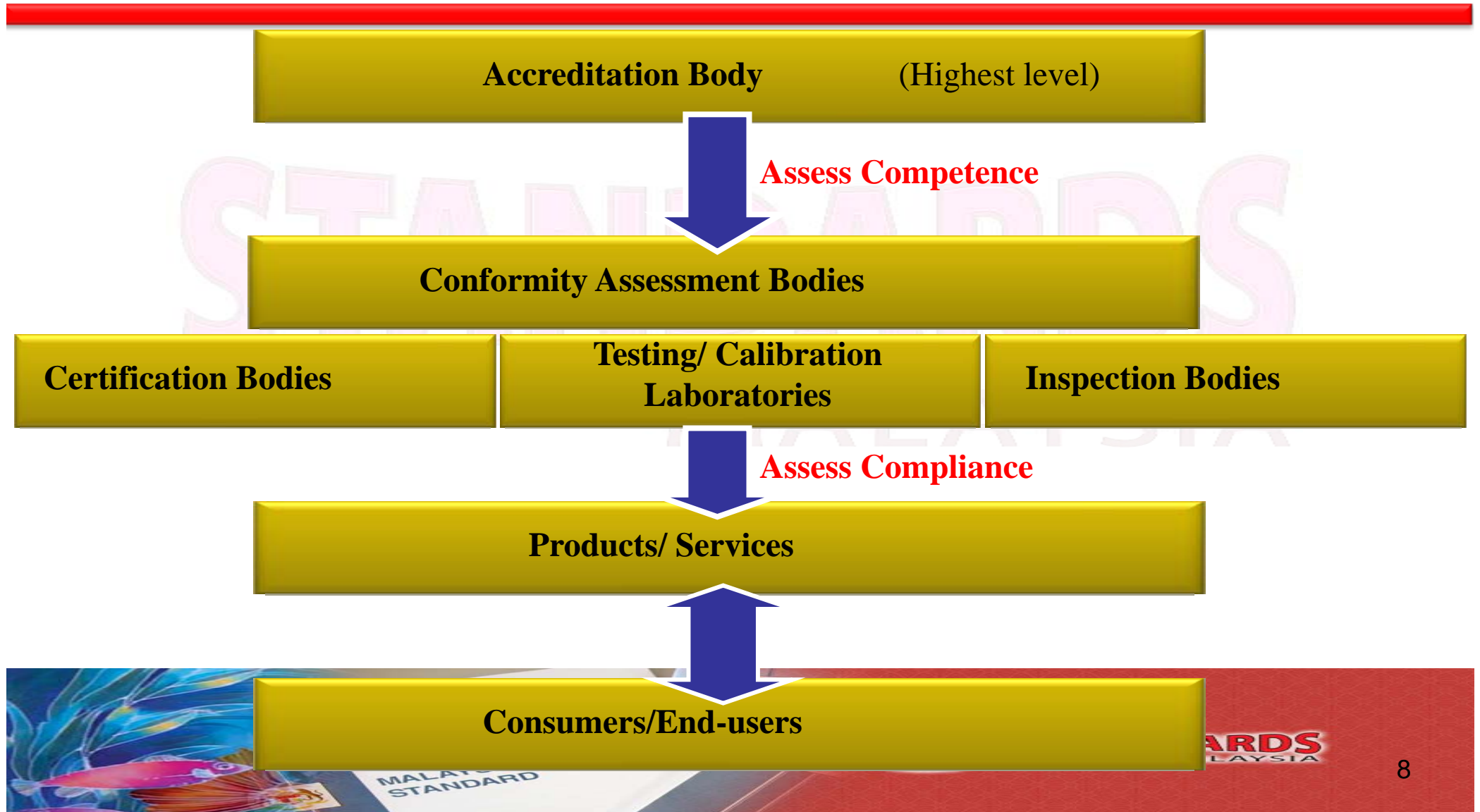
CERTIFICATION - A procedure by which a third party gives written assurance that a process, system, service or person **conforms** to specified requirements





Department of Standards Malaysia

- Conformity Assessment Value Chain





Department of Standards Malaysia

- Accreditation Schemes in STANDARDS MALAYSIA



Skim Akreditasi Makmal Malaysia (SAMM) – Laboratory

- Testing laboratories (non-medical)
- Calibration laboratories
- Medical testing laboratories



Accreditation of Certification Bodies (ACB) Scheme

- Quality management systems (QMS)
- Environment management systems (EMS)
- Product certification (PC)
- Occupational safety & health (OSH)
- Food safety system based on hazard analysis and critical control point (HACCP)
- Information security management system (ISMS)
- Halal
- Forest management certification (FMC)
- Personnel
- Chain of custody certification (CoCC)
- Food safety management system (FSMS)
- Roundtable sustainable palm oil (RSPO)



Malaysia Inspection Bodies Accreditation Scheme (MIBAS)

- Agriculture and agricultural products
- Industrial equipment and machinery
- Industrial and commercial construction and maintenance
- Process inspection
- Building construction and maintenance
- Manufactured goods
- Natural resources and refined products





Standardisation Activities



National Standardisation Activities

- SCAM Infrastructure

STANDARDS, CONFORMITY ASSESSEMENT AND METROLOGY (SCAM) INFRASTRUCTURE

METROLOGY

- Physical/Primary Standards
- Calibration
- Legal Weights & Measures

Metrology is defined by the [International Bureau of Weights and Measures \(BIPM\)](#) as "the science of measurement, embracing both [experimental](#) and [theoretical](#) determinations at any level of [uncertainty](#) in any field of science and technology."

STANDARDS

- Documentary standards
- Voluntary and mandatory

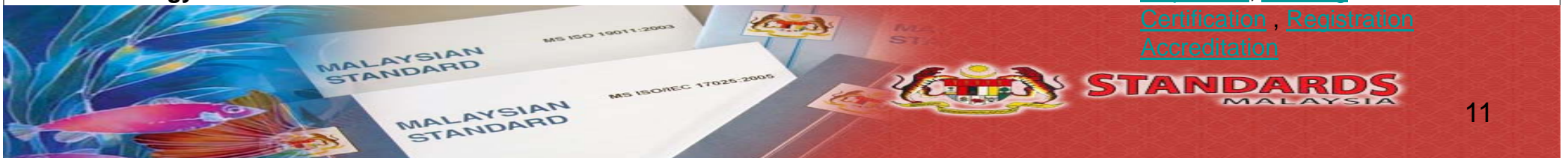
Standardization (or **standardisation**) is the process of developing and agreeing upon [technical standards](#). A standard is a document that establishes uniform engineering or technical specifications, criteria, methods, processes, or practices.

CONFORMANCE

- Accreditation
- Certification
- Testing & inspection

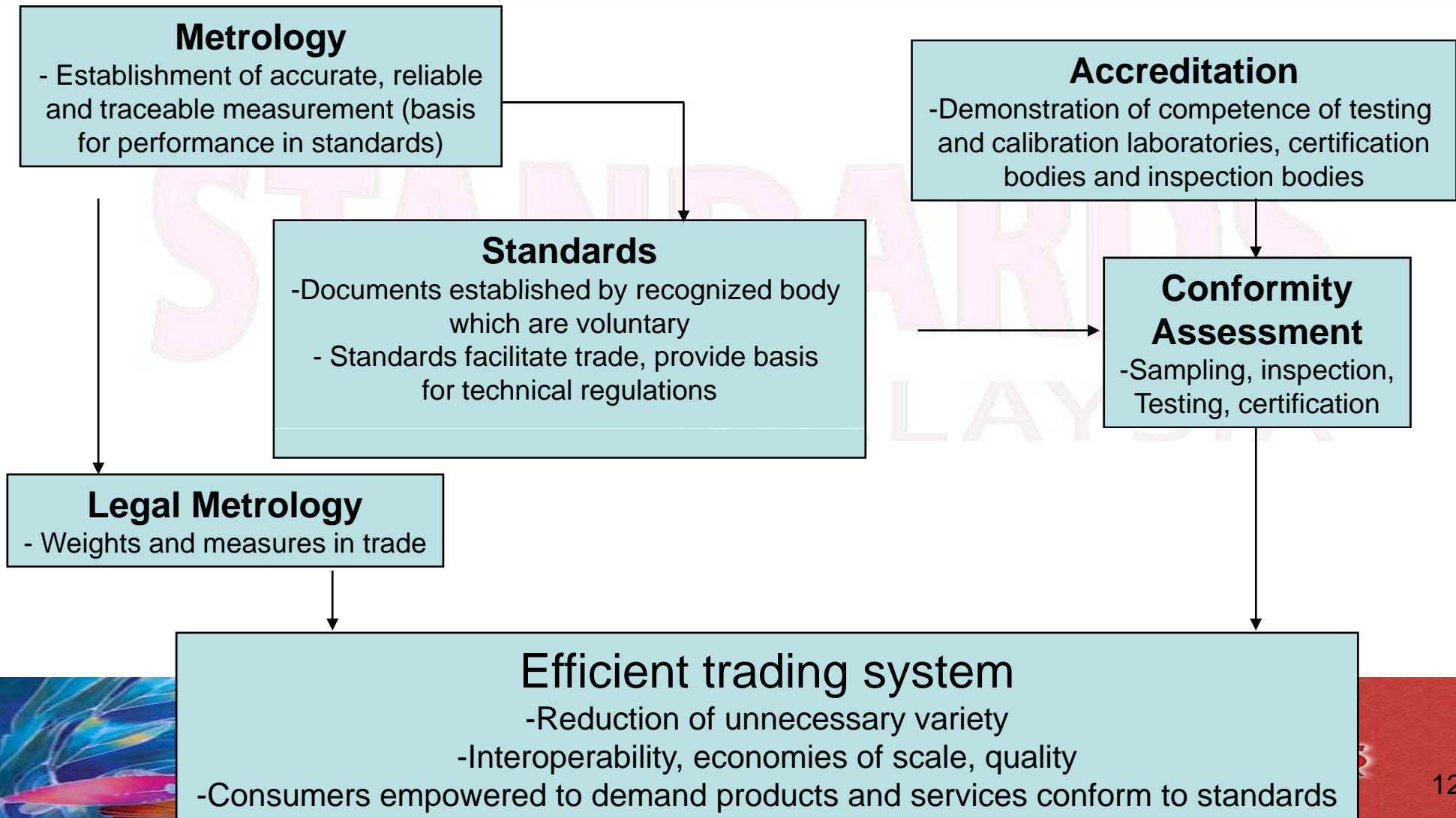
Conformity assessment is any activity to determine, directly or indirectly, that a process, product, or service meets relevant [standards](#) and fulfills relevant requirements. Conformity assessment activities may include:

[Testing](#) , [Surveillance Inspection](#) , [Auditing Certification](#) , [Registration Accreditation](#)



National Standardisation Activities

- *SCAM Linkages*



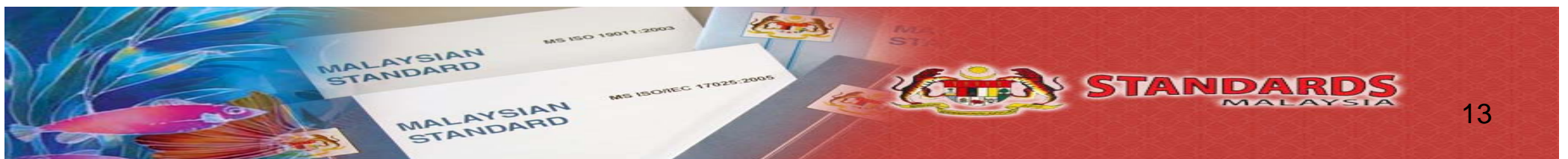


National Standardisation Activities

- Legislative and Regulatory Underpinnings of Malaysia

SCAM Activities

- Standards of Malaysia Act 1996 (Act 549)
- Weight and Measures Act 1972 (Act 71)
- National Measurements System Act 2007 (Act 675)
- Other Relevant Acts and Regulations

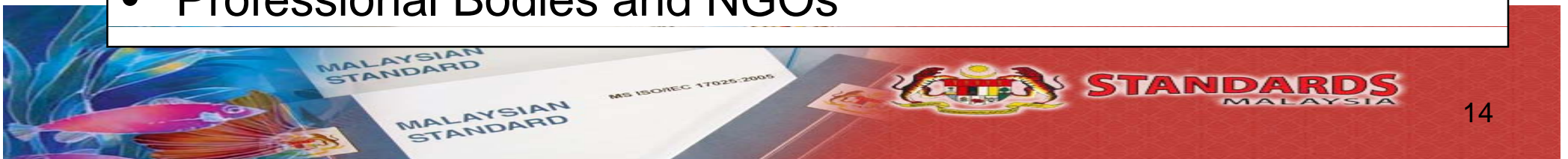




National Standardisation Activities

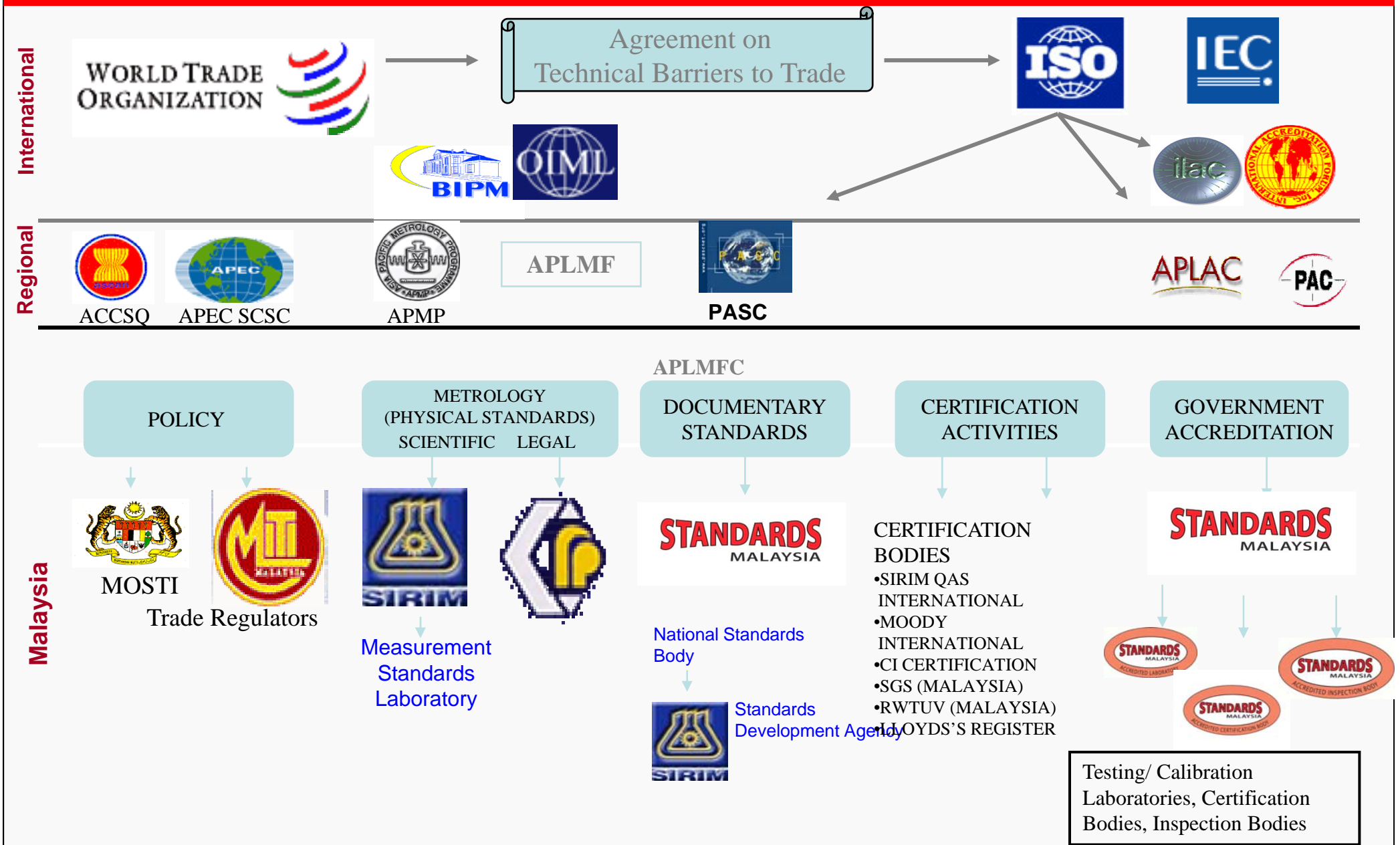
- Organisation involved in SCAM

- DEPARTMENT OF STANDARDS MALAYSIA
 - National Standards Body (NSB)
 - National Accreditation Body (NAB)
- SIRIM BERHAD
 - National Standards Development Agency
 - National Metrology Laboratory
 - Conformity Assessment Body (SIRIM QAS Int.)
- Other Conformity Assessment Bodies (CABs)
- Government Policy Makers and Regulators
- Industry Players
- Professional Bodies and NGOs



National Standardisation Activities

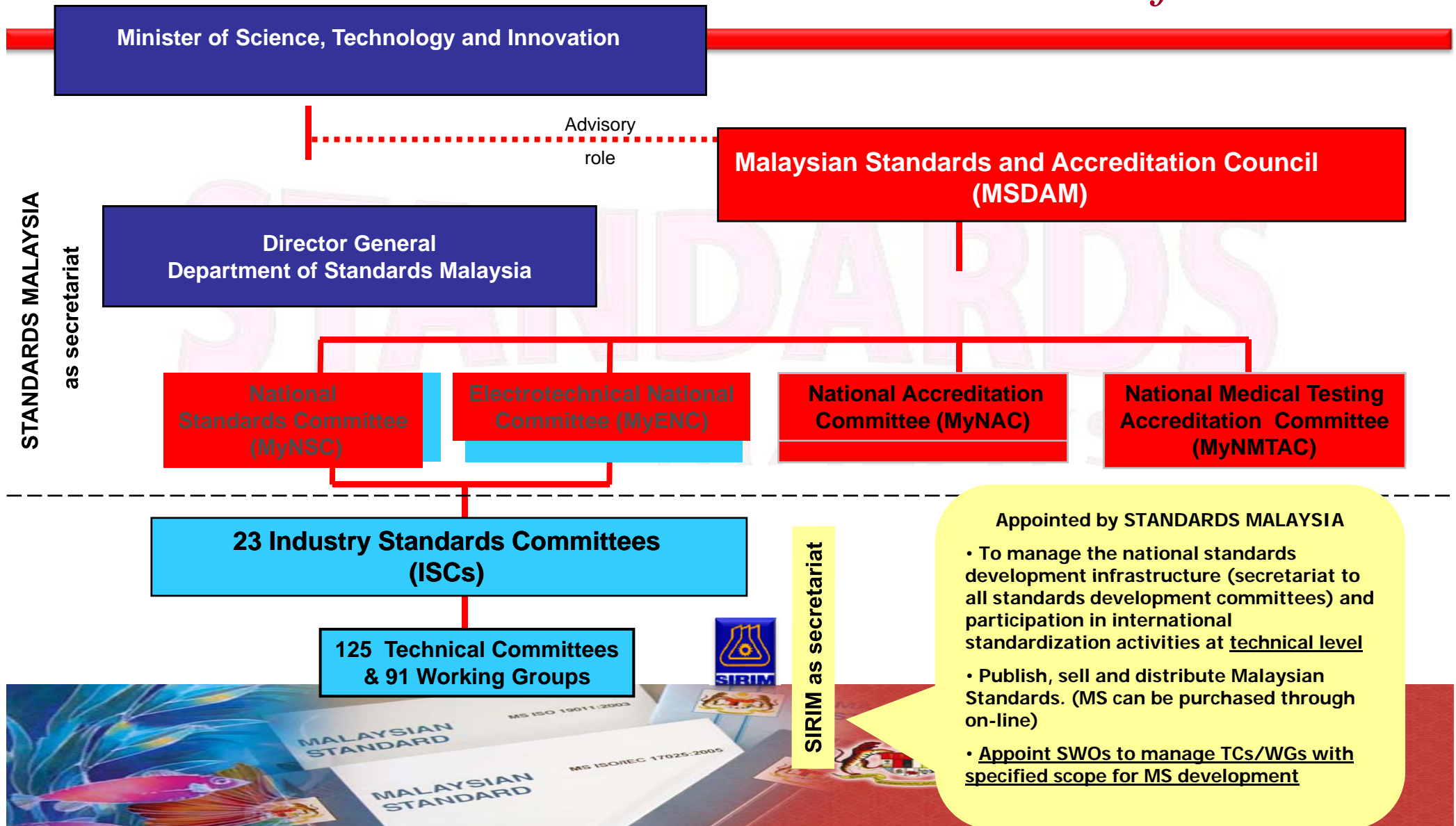
- Standardization and Conformity Assessment Technical Infrastructure Value Chain





National Standardisation Activities

- *National Standardisation Infrastructure*





National Standardisation Activities

- National Standardisation Infrastructure (Con't)

- MSDAM (Malaysian Standard and Accreditation Council)
 - 15 members appointed by the Minister
 - Director General of STANDARDS MALAYSIA acts as the ex-officio
- National Standards Committee (MyNSC)
- Established by MSDAM
 - Recommend to MSDAM strategies, programmes and activities to promote standardisation
 - Establish ISC with its specified scope to oversee MS development and participation at international standardisation

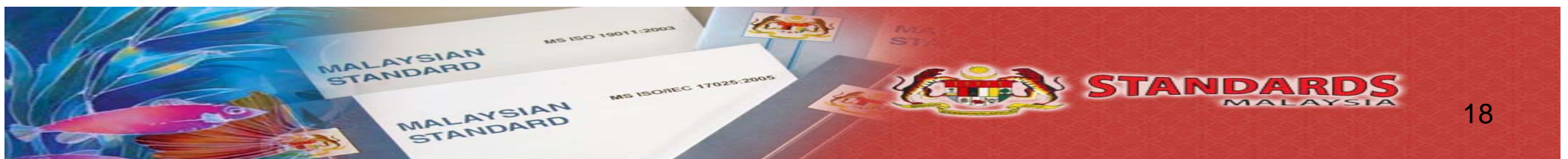




National Standardisation Activities

- National Standardisation Infrastructure (Con't)

- Electrotechnical National Committee (MyENC)
 - Established by MSDAM
 - Recommend to MSDAM strategies, programmes and activities to promote standardisation in electrotechnical field
 - Establish ISC with its specified scope to oversee MS development and participation at international standardisation
 - Represent Malaysia in the International Electrotechnical Commission (IEC)
- ISC (Industry Standards Committee)
 - Established by MyNSC/MyENC
 - Approve NWIP
 - Approve DMS as FDMS
 - Establish Technical Committees and Working Groups for the purpose of MS development
 - Approve work programme for MS development within its scope





National Standardisation Activities

- National Standardisation Infrastructure (Con't)

Industry Standards Committees (ISC)

- ISC A Agriculture
- ISC B Chemicals
- ISC D Building & Civil Engineering
- ISC E Electrical Power Generation, Transmission & Distribution
- ISC F Mechanical Engineering
- ISC G IT, Telecommunication & Multimedia
- ISC H Petroleum & Gas
- ISC I *Halal* Standards
- ISC J Plastics & Plastic Products
- ISC K Packaging
- ISC L Road Transport
- ISC M Fire Safety & Protection
- ISC N Rubber & Rubber Products
- ISC O Organisation Management
- ISC P Iron & Steel
- ISC Q Textiles & Apparels
- ISC R Medical Devices
- ISC S Electrical Tools & Accessories
- ISC T Tourism, Exhibition & Hospitality Services
- ISC U Food & Food Products
- ISC W Occupational Safety & Health
- ISC Y Quality Management & Quality Assurance
- ISC Z Environment Management

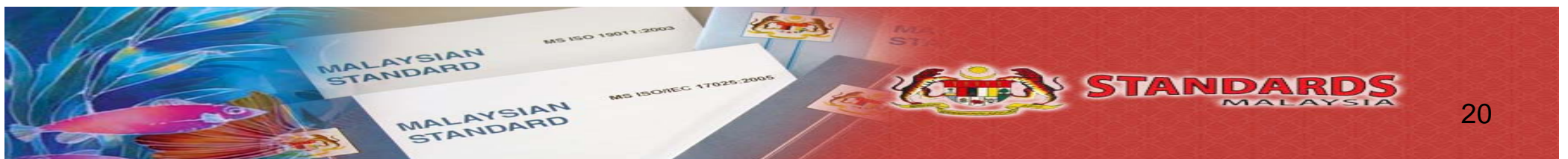




National Standardisation Activities

- National Standardisation Infrastructure (Con't)

- TC (Technical Committee)
 - Established by ISC
 - Responsible for developing and reviewing MS
 - Approve release of DMS for public comment
 - Review comments received
 - Study and comment and/or vote on relevant draft international standards
 - Establish Working Group to undertake a specific task
- WG (Working Group)
 - Established by ISC/TC
 - Responsible for the work on specific projects determined by ISC/TC





National Standardisation Activities

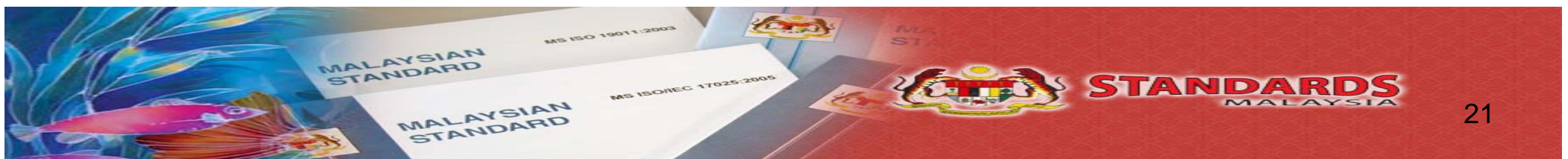
- Membership and participation in ISO and IEC

ISO

- **P member:** 112 TCs/SCs (Including 4 TC/SCs as the secretariat), CASCO, COPOLCO, DEVCO, TMB/WGSR
- **O Member:** 125 TCs/SCs
- **Council :** 1991-1993, 1995-1996, 1999-2000, 2002-2003, 2006-2008
- **TMB :** 1996-1998, 2000-2002, 2003-2005

IEC

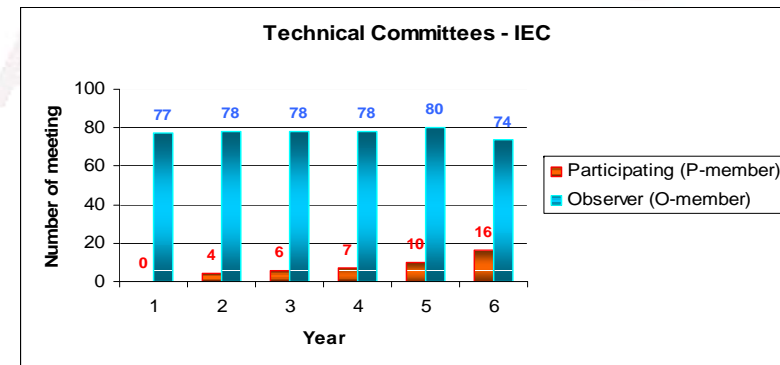
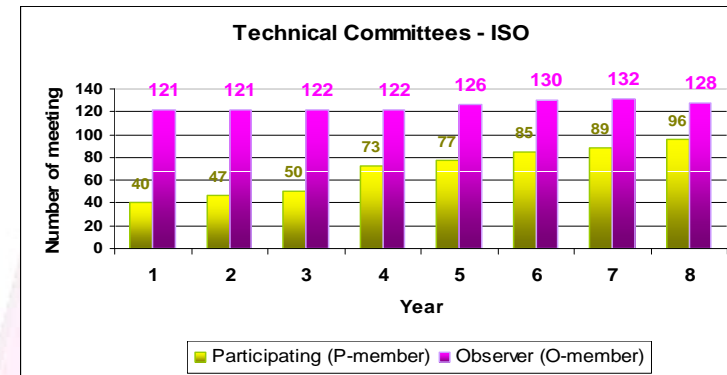
- **P member:** 17 TCs/SCs
- **O Member:** 76 TCs/SCs
- **IEC Conformity Assessment Schemes – IECEE, IECEx**



National Standardisation Activities

- Major Achievements

1. Wide coverage of national Standards (>5,000 in 23 sectors)
2. Established standards development infrastructure (~400 committees in various sectors)
3. Significant participation and influence in international standards (both at policy and technical levels)
4. Good involvement of broad sectors of government and industry in standardisation
5. Enhancement of National Standardisation Efforts – 24 July 02
6. National Standards Strategy and Action Plan (NSSAP) - 13 Oct 04



National Standardisation Activities

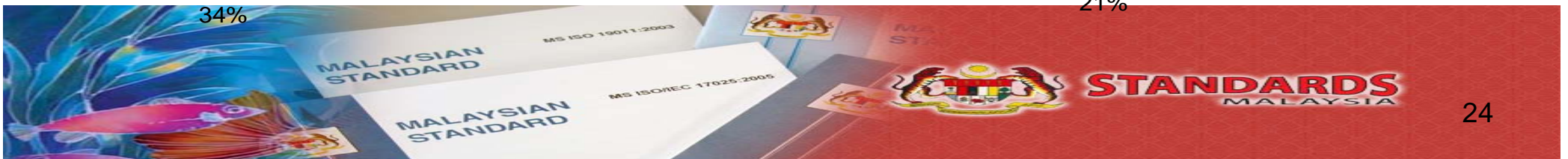
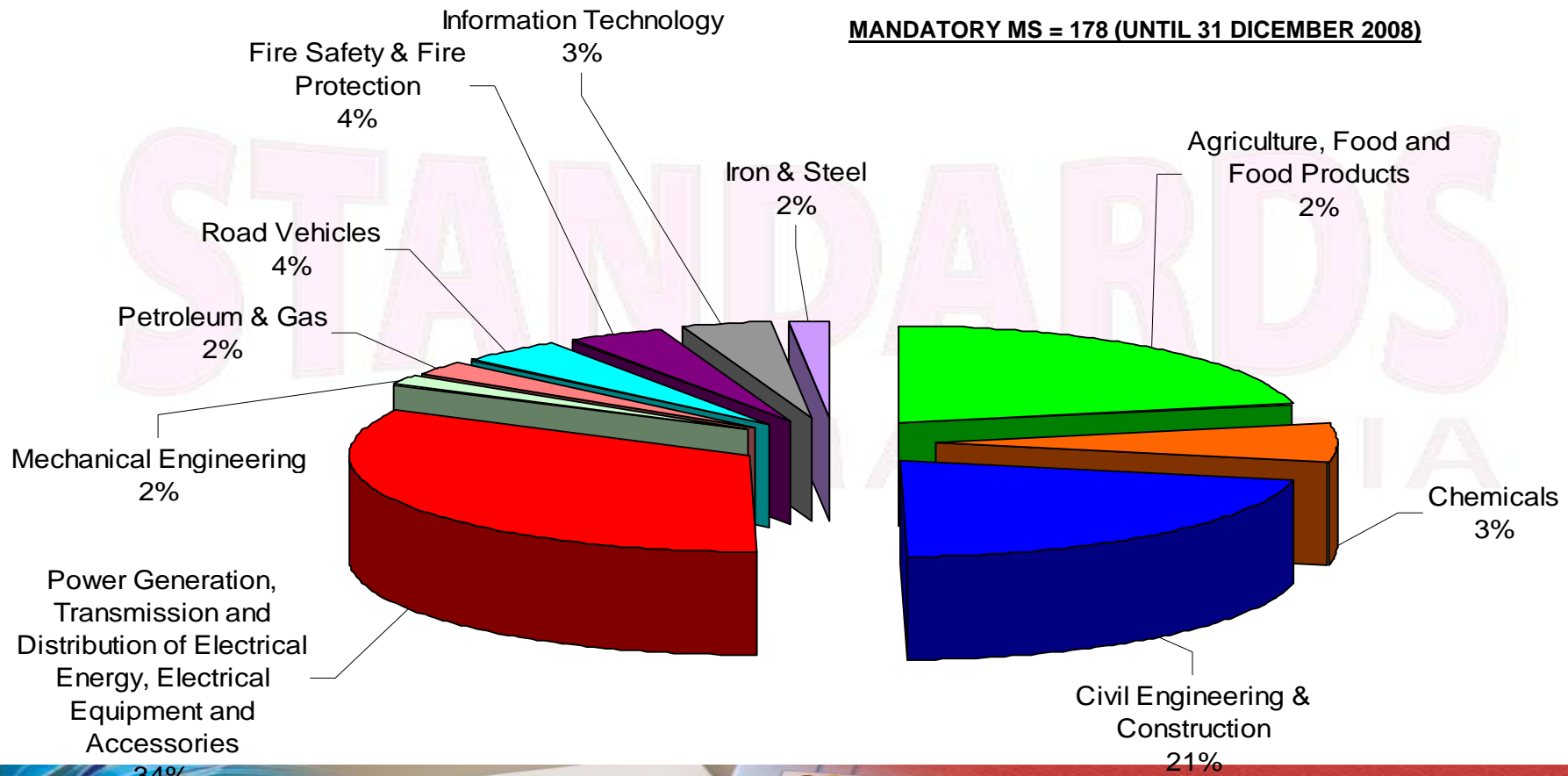
- Malaysian Standards Developed as at 31 Dec 2008

Field	Total MS
Food & Agriculture	578
Chemicals	713
Organizational Management	71
Civil Engineering & Construction	262
Power Generation, Transmission and Distributio	776
Mechanical Engineering	304
Information Technology	653
Petroleum & Gas	205
Halal	4
Plastics	365
Packaging	99
Road Vehicles	181
Fire Safety & Fire Protection	87
Rubber	189
Organizational Management	2
Iron & Steel	103
Textiles	258
Medical Devices	183
Electrical Equipment & Accessories	93
Food & Food Product	50
Tourism, Exhibition & Hospitality Services	6
Occupational Health & Safety	148
Quality Management & Quality Assurance	123
Environment Management	65
TOTAL	5518



National Standardisation Activities

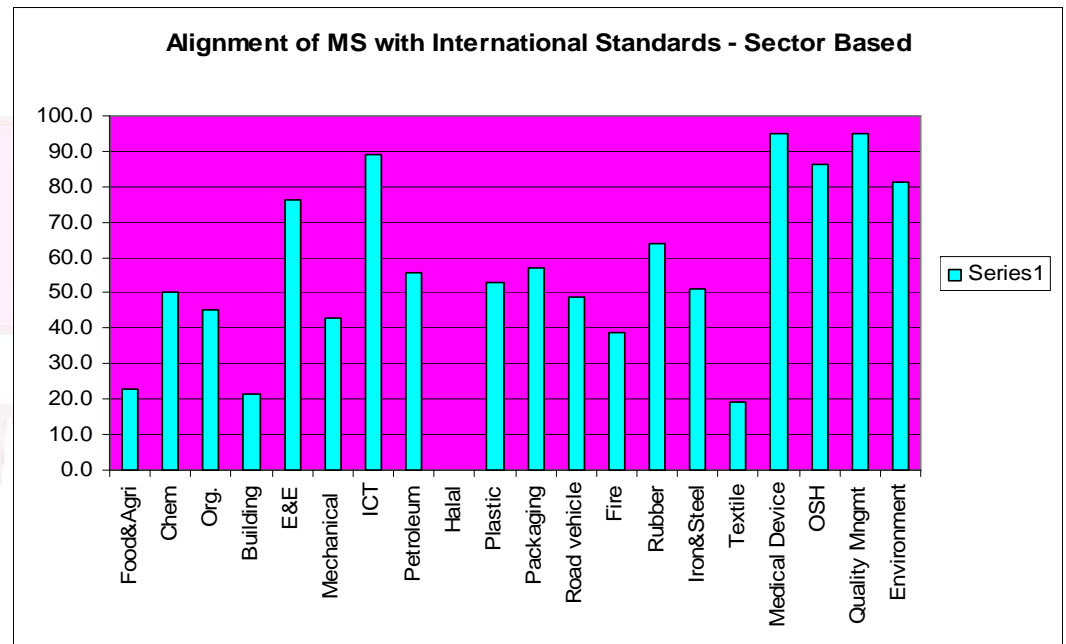
- Total Mandatory Standards as at 31 Dec 2008



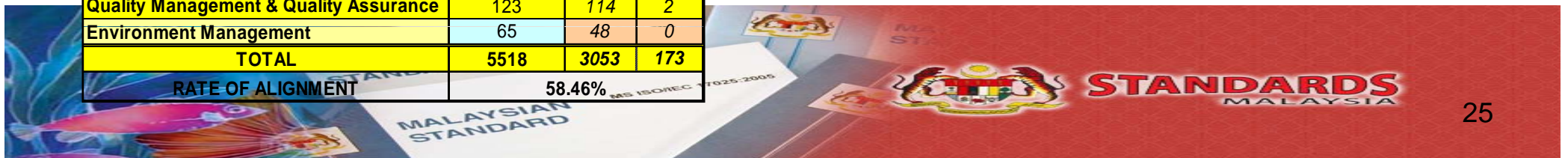
National Standardisation Activities

- Standards Alignment to International Standards

Field	Cumulative MS developed	Aligned MS	
		IDT	MOD
Food & Agriculture	578	123	6
Chemicals	713	337	51
Organizational Management	71	31	1
Civil Engineering & Construction	262	61	4
Power Generation, Transmission and Distr	776	592	32
Mechanical Engineering	304	130	5
Information Technology	653	597	3
Petroleum & Gas	205	105	2
Halal	4	0	0
Plastics	365	180	13
Packaging	99	55	0
Road Vehicles	181	95	12
Fire Safety & Fire Protection	87	28	2
Rubber	189	106	19
Organizational Management	2	2	0
Iron & Steel	103	39	12
Textiles	258	58	0
Medical Devices	183	165	2
Electrical Equipment & Accessories	93	28	0
Food & Food Product	50	26	3
Tourism, Exhibition & Hospitality Services	6	6	0
Occupational Health & Safety	148	127	4
Quality Management & Quality Assurance	123	114	2
Environment Management	65	48	0
TOTAL	5518	3053	173
RATE OF ALIGNMENT		58.46%	



UNTIL 31 DICEMBER 2008





National Standardisation Activities

- Success Factors

Commitment of the Government

- **1991 – Government Approved SIRIM’s Strategy to Enhance Malaysian Standards (MS) Development and the Usage of SIRIM’s Certification Marks**
- **2002 – Cabinet Decision on the Measures for Enhancing Standardisation Activities**
 - Tax Incentive for Private Sector:
 - i) Attending International Standardisation Meetings
 - ii) Acquiring STANDARDS MALAYSIA’s Accreditation Services and Using Certification Services Provided by STANDARDS MALAYSIA’s Accredited CBs
 - Allocation for Government Agencies to participate in International Standardisation Activities
 - Enhanced Usage of Malaysian Standards in Regulations
- **2004 – Government Approved the National Standards Strategy and Action Plan (NSSAP)**
 - Strategic Involvement in international Standardisation Activities
- **2004 – Cabinet Decision for Recognition of Accreditation Services Provided by STANDARDS MALAYSIA**

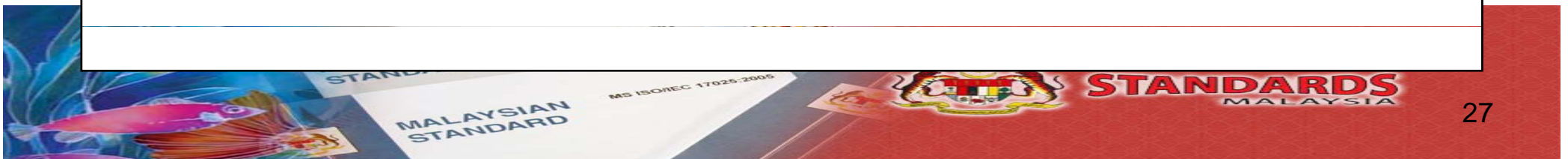


National Standardisation Activities

- Success Factors (Con't)

Support from Other Stakeholders (Industry, NGOs and Professional Bodies)

- Active Participation in Standardisation Activities
 - 3000 people involved in standards development work
- Strategic Alliances with relevant bodies including NGOs and Professional Bodies
 - Awareness campaign carried out collaboratively with Industries, NGOs and Professional Bodies





Way Forward



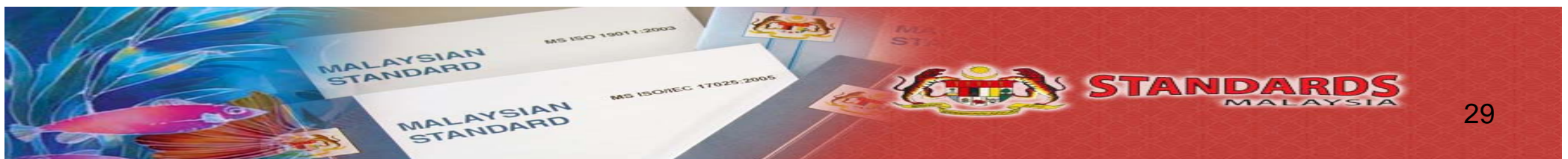
Way Forward

- To Realize and review the National Standards Strategy and Action Plan (NSSAP)

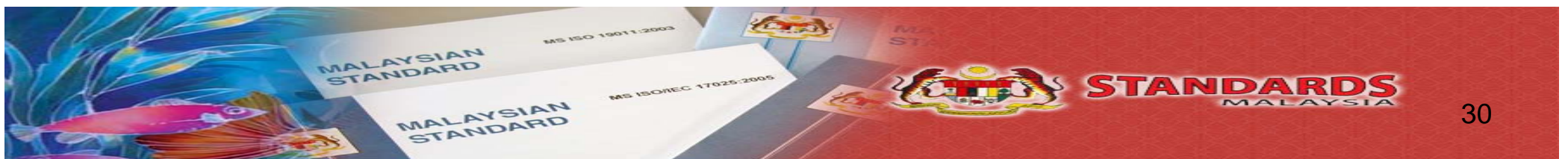
1. Wider adoption of MS in technical regulations
2. Ensuring stakeholder participation and support for standardisation at regional and international levels
3. Strategic involvement in regional and international standardisation activities
4. Timely delivery of MS that meet the current and future needs of stakeholders
5. Greater awareness and usage of MS by the Government, private sector and the consumers in procurement, trade, production, manufacturing and provision of services



Note: Each Strategy is supported by detailed Action Plans which can be referred in the document



- The Government is committed to enhancing the SCAM infrastructure:
 - in support of Malaysia's Vision to be a developed nation by Year 2020.
 - to enhanced its position as a global player in the international market
- The rising awareness of all stakeholders on the importance of SCAM has contributed to Malaysia's socio-economic well being





THANK YOU

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