

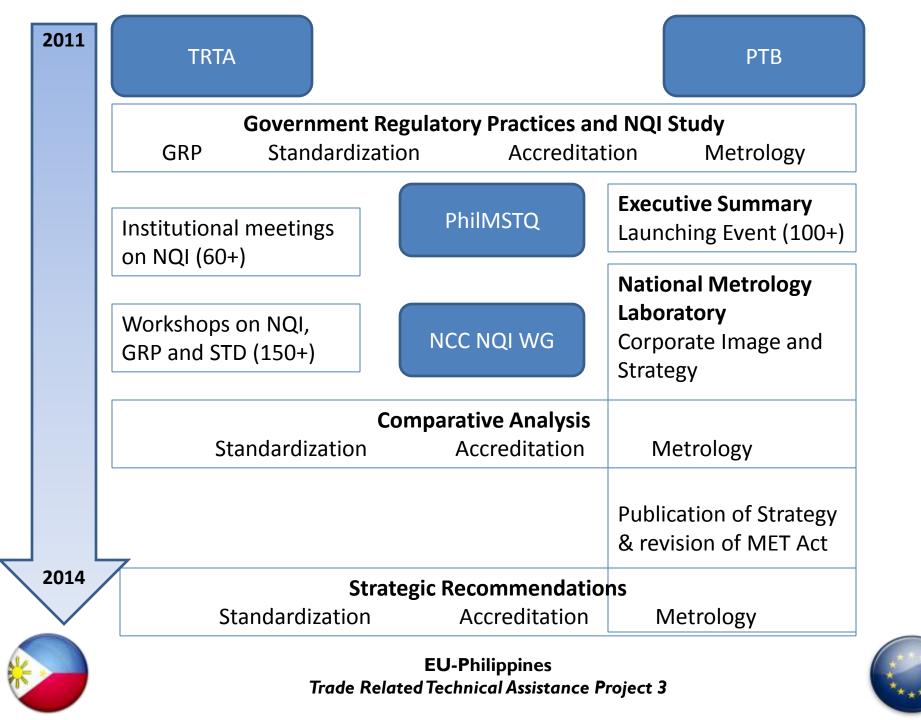
#### **TRADE RELATED TECHNICAL ASSISTANCE PROJECT 3**

A project supported by the European Union

### **Challenges of the NQI Institutions**

NQI Forum & Workshop 28 Oct. 2014 – AIM, Makati Jon Echanove





#### WORLD ECONOMIC FORUM

#### **Global Competitiveness Report 2014-2015**

Country	Rank	Score	GCI 2013–2014
Singapore	2	5.65	2
Malaysia	20	5.16	24
Thailand	31	4.66	37
Indonesia	34	4.57	38
Philippines	52	4.40	59
Vietnam	68	4.23	70

# How the NQI institutions of the most competitive economies looks like?







### **On Standardization**

Country	NSB	Policy Orientation	Balanced Governance	Management & Financial Autonomy	Functions
Indonesia	National Standardization Agency of Indonesia (Badan Standardisasi Nasional -BSN)	Competitiveness and Trade Facilitation	STD Council	Agency reporting to President Office	STD & ACC
Malaysia	Department of Standards Malaysia (DSM) & SIRIM Berhad	Competitiveness and Trade Facilitation	Private/Public STD Council	Attached Agency	STD & ACC
Philippines	Bureau of PhilippinesStandards (BPS)	Consumer Protection	No council	Gov. Bureau	STD, CERT, INS, TEST & REG
Singapore	Standards, Productivity and Innovation Board (Spring SG)	Productivity and Innovation	Board of Directors and Standardization Council	Attached Agency	STD, ACC & SMEs
Thailand	Thai Industrial Standards Institute (TISI)	Competitiveness and Trade Facilitation	Public/Private STD Council	Institute	STD & ACC
Viet Nam	Directorate for Standards, Metrology & Quality (STAMEQ)	Consumer Protection	No Council	Gov. Department	STD, CERT, ACC, MET, QUALITY, INS, TEST, SMEs

### **On Standardization**

Country	NSB	STD. Activities	National Stakeholders	Int. Presence
Indonesia	National Standardization Agency of Indonesia (Badan Standardisasi Nasional -BSN)	1 NSB. 2 SDOs. No evidence for formal delegation process	Good	Active in governance and technical bodies
Malaysia	Department of Standards Malaysia (DSM) & SIRIM Berhad	1 NSB. 2 SDOs. Formal delegation process	Strong	Active in governance and technical bodies
Philippines	Bureau of Philippine Standards (BPS)	5 Depart./agencies mandated No formal coordination	Weak	Inactive in technical bodies Inactive in ISO gov. Active in IEC gov.
Singapore	Standards, Productivity and Innovation Board (Spring SG)	1 NSB. 2 SDOs formally reporting to STD Council	Strong	Active in governance and technical bodies
Thailand	Thai Industrial Standards Institute (TISI)	1 NSB	Good	Active in governance and technical bodies
Viet Nam	Directorate for Standards, Metrology & Quality (STAMEQ)	1 NSB? 22 SDOs. No evidence of formal delegation process	Weak	Active in governance?

### **On Standardization**

Country	NSB	National STD Strategy	STD & Associated Services	Corporate Image
			PH has	
Indonesia	National Standardization Agency of Indonesia (Badan Standardisasi Nasional -BSN)	NSS published	137% stds No industry support services	Logo and independent webpage Corporate Image somehow developed
Malaysia	Department of Standards Malaysia (DSM) & SIRIM Berhad	NSS published and implemented thru Business Objectives	65% stds Industry support services	Well developed corporate image
Philippines	Bureau of PhilippinesStandards	No NSS	500 Stds	No agency logo
	(BPS)		No industry support services	STD&CA Portal?
Singapore	Standards, Productivity and Innovation Board (Spring SG)	NSS published and implemented thru Strategic Outcomes	641% stds Industry support services	Well developed corporate image
Thailand	Thai Industrial Standards Institute (TISI)	NSS Published	323% stds No industry services	Logo and independent webpage
Viet Nam	Directorate for Standards, Metrology	No NSS	74% stds	No agency logo
	& Quality (STAMEQ)		No industry services	No independent webpage

### **On Accreditation**

Country	NAB	Policy Orientation	Balanced Governance	Management & Financial Autonomy	Functions
Indonesia	National Accreditation Committee (KAN)	Competitiveness and Trade Facilitation	ACC Council Private/Public	Agency reporting to President Office	STD & ACC
Malaysia	Department of Standards Malaysia (DSM) & SIRIM Berhad	Competitiveness and Trade Facilitation	Private/Public STD Council	Attached Agency	STD & ACC
Philippines	Philippine Accreditation Bureau (PAB)	Consumer Protection	Advisory Council	Gov. Bureau	ACC
Singapore	Standards, Productivity and Innovation Board (Spring SG)	Productivity and Innovation	Board of Directors and Standardization Council	Attached Agency	STD, ACC & SMEs
Thailand	Thai Industrial Standards Institute (TISI)	Competitiveness and Trade Facilitation	Public/Private STD Council	Institute	STD & ACC
Viet Nam	Directorate for Standards, Metrology & Quality (STAMEQ)	Consumer Protection	No Council	Gov. Department	STD, CERT, ACC, MET, QUALITY, INS, TEST, SMEs

### **On Accreditation**

Country	NAB	ACC. Activities	National Stakeholders	Int. Presence
Indonesia	National Standardization Agency of Indonesia (Badan Standardisasi Nasional -BSN)	1 NAB	Good	Active in governance
Malaysia	Department of Standards Malaysia (DSM) & SIRIM Berhad	1 NAB	Strong	Active in governance and technical bodies
Philippines	Philippine Accreditation Bureau (PAB)	4 Depart./agencies mandated No formal coordination	Weak	Inactive in technical bodies Active in Regional governance bodies Inactive in Int. bodies
Singapore	Standards, Productivity and Innovation Board (Spring SG)	1 NAB	Strong	Active in governance and technical bodies
Thailand	Thai Industrial Standards Institute (TISI)	4 NAB reporting to the National Accreditation Council	Good	Active in governance
Viet Nam	Directorate for Standards, Metrology & Quality (STAMEQ)	1 NAB	Weak	Active in governance?

### **On Accreditation**

Country	NAB	National ACC Strategy	ACC & Associated Services	Corporate Image
			PH has	
Indonesia	National Standardization Agency of Indonesia (Badan Standardisasi Nasional -BSN)	NAS published	TL: 33%,CL:18%, QMS:25%, P:0% (28)	Logo and independent webpage
Malaysia	Department of Standards Malaysia (DSM) & SIRIM Berhad	NAS published and implemented thru Business Objectives	TL: 51%,CL:38%, QMS:43%, P:0% (5)	Well developed corporate image
Philippines	Philippine Accreditation Bureau	No NAS	500 Stds	Agency Logo
	(PAB)		No industry support services	Not independent webpage
Singapore	Standards, Productivity and Innovation Board (Spring SG)	NAS published and implemented thru Strategic Outcomes	TL: 74%, CL:38%, QMS:55%, P: 0%(11).	Well developed corporate image
Thailand	Thai Industrial Standards Institute (TISI)	NAS Published	TL: 48%,CL:13%, QMS:67%, P:0% (2)	Logo and independent webpage
Viet Nam	Directorate for Standards, Metrology & Quality (STAMEQ)	No evidence of NAS	TL: 37%,CL:45%, QMS:86%, P:0% (8)	No agency logo No independent webpage

Country	NMIs	Metre Convention	APMP	APLMF	OIML
Indonesia	Research Center for Calibration, Instrumentation and Metrology – Indonesian Institute of Sciences (Puslit KIM-LIPI)	Member State 1960	Full Member 1980	Full Member 1999	Member State 1962
Malaysia	National Metrology Lab – SIRIM Berhad	Member State 2001	Full Member 1977	Full Member 1999	Member State 1999
Philippines	National Metrology Laboratory of the Industrial Technology Development Institute	Associate State 2002	Full Member 1980	Full Member 1999	No Membership (Corresponding Member from1995 – 1998)
Singapore	National Metrology Centre (NMC) of the Agency for Science, Technology and Research (A*STAR)	Member State 1994	Full Member 1977	Full Member 2000	Corresponding Member 2000
Thailand	National Institute of Metrology (Thailand)	Member State 1912	Full Member 1979	Full Member 1999	Corresponding Member 1994
Viet Nam	Vietnam Metrology Institute, Directorate for Standards and Quality	Associate State 2003	Full Member 1992	Full Member 1999	Member State 2003

Country	National Metrology Institute	Annual Budget (in US\$, 2014)	Technical Staff	Support Staff	Total Number of Staff
Indonesia	Research Center for Calibration, Instrumentation and Metrology – Indonesian Institute of Sciences (Puslit KIM-LIPI)	2.4 million	135	50	185
Malaysia	National Metrology Lab – SIRIM Berhad	7 million	76	29	105
Philippines	National Metrology Laboratory of the Industrial Technology Development Institute	< 0.5 million	24	2	26
Singapore	National Metrology Centre (NMC) of the Agency for Science, Technology and Research (A*STAR)	Undisclosed	66	9	75
Thailand	National Institute of Metrology (Thailand)	7.83 million	127	68	195
Viet Nam	Vietnam Metrology Institute, Directorate for Standards and Quality	3.8 million	90	46	136

Country	National Metrology Institute	Number of Calibration Measurement Capabilities (CMCs)	Number of Metrology Areas Covered by the CMCs	Key Comparisons	Supplementary Comparisons	Number of Accredited Calibration Laboratories
ID	Research Center for Calibration, Instrumentation and Metrology – Indonesian Institute of Sciences (Puslit KIM-LIPI)	107	5	53	18	155
MY	National Metrology Lab – SIRIM Berhad	155	8	57	21	90
PH	National Metrology Laboratory of the Industrial Technology Development Institute	21	1	11	5	27
SG	National Metrology Centre (NMC) of the Agency for Science, Technology and Research (A*STAR)	355	7	101	33	318
TH	National Institute of Metrology (Thailand)	473	8	86	37	131
VT	Vietnam Metrology Institute, Directorate for Standards and Quality	31	4	14	2	75

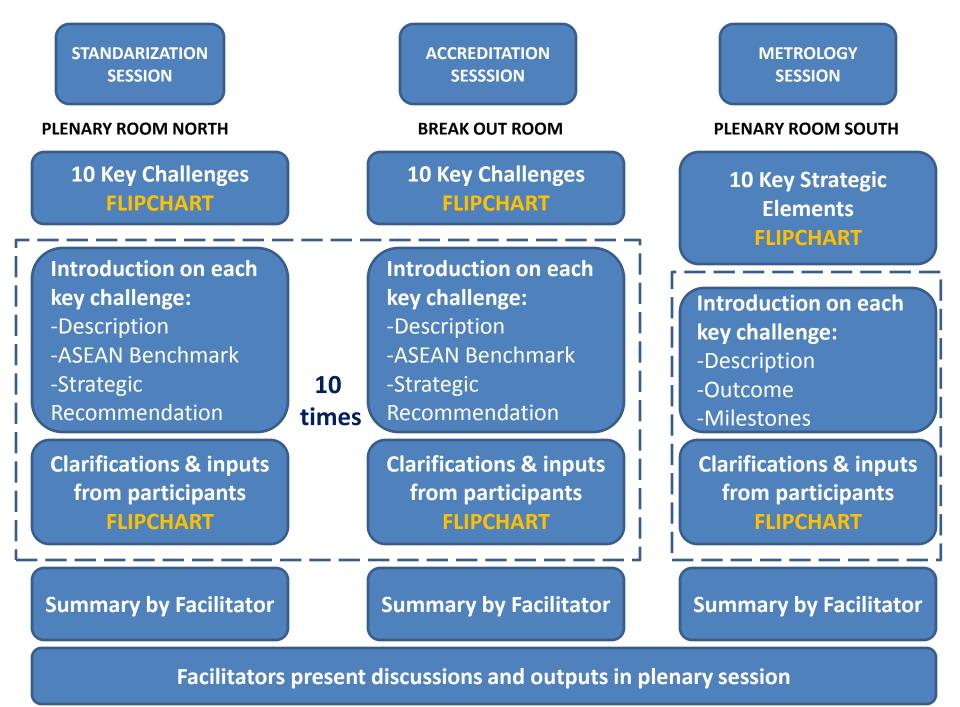
#### 10 key strategic elements

- 1. A national metrology policy
- 2. Relationship with Designated Institutes
- The NML's regional and international relations
- 4. Institution building of the NML
- 5. Technical competence of the NML and DIs

- 6. Relations between NML and accredited calibration laboratories
- 7. Relations between NML and the regulators
- 8. Relations between the NML and industry
- 9. Relations between the NML and the other components of the NQI
- 10. A metrology culture







### Thanks a lot for listening!!!

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EU-Philippines Trade Related Technical Assistance Project 3