

HOST REPORT- PHILIPPINES

06 -09 Nov. 2012

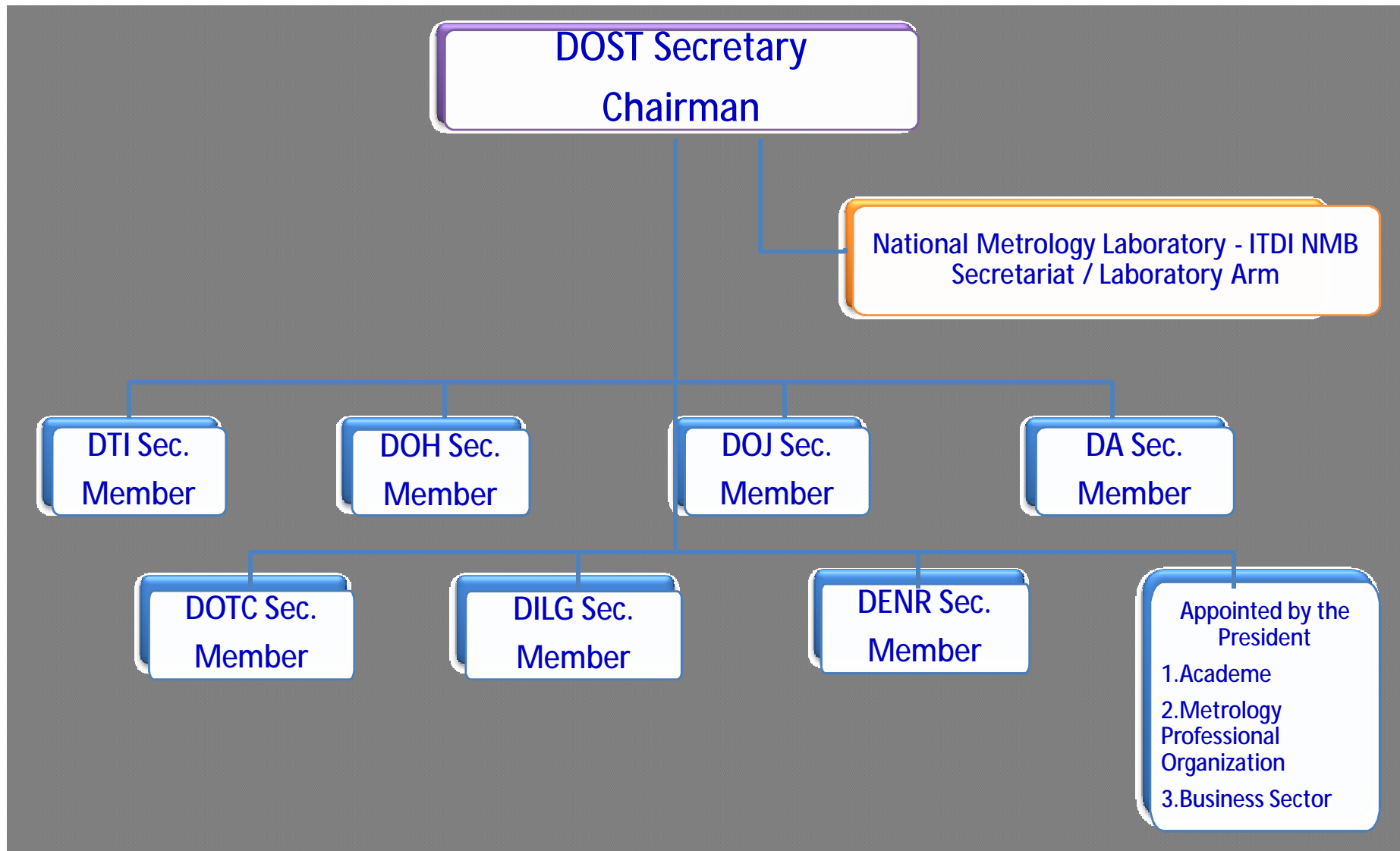
19th APLMF Meeting Forum

Shangri-la Hotel, Mactan City, Cebu

The National Metrology Board

Created under the “National
Metrology Act of 2003 (R.A. No.
9236)

The NMB Organizational Structure



The National Metrology Act of 2003

Section 4. National Measurement Infrastructure

System (NMIS) (*internationally traceable and consistent with the Metre Convention*).

Ø units of measurements

Ø measuring instruments

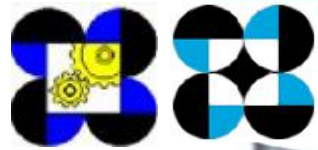
Ø measurement standards

Ø metrological application and controls

Ø laboratory accreditation system

Ø system of appropriate penalties

The National Metrology Act of 2003



The ITDI of DOST is the NMB's Secretariat and the National Metrology Laboratory (NML) serve as the laboratory arm of the ITDI on metrology shall lead public and private laboratories in carrying out the calibration, verification, type approval, testing and other metrological controls to effectively implement the provisions of the Act.”

The National Metrology Act of 2003

The ITDI, as the Secretariat of the NMB shall recommend to the Board, the delegation of specific authority and functions of the NMB to other departments and agencies of the government and private institutions as deputized entities to assist in the implementation of the Act.

ITDI shall call on the personnel of these deputized entities to assist in the implementation of the Act.

The National Metrology Act of 2003

Sec. 7- REGISTRATION of measuring equipment to the NMB.

Sec. 8- SYSTEM OF UNITS - The SI units shall be mandatory throughout the country in regulated areas of application. In addition, the use of other units on meritorious cases may be allowed by the Board.

Sec. 9- TRACEABILITY OF MEASUREMENTS- All weights, measures and measuring equipment shall be internationally traceable through the national metrology laboratories or other laboratories recognized by the NMB.

The National Metrology Act of 2003



Section 10. LABELING. -The Consumer Act of the Phil. (RA # 7394) provides that the products, commodities, goods or merchandise must contain contents and quantities of substances, nutritional and health value and relevant other information in units expressed in terms of SI or other Board-authorized Units (BAU).

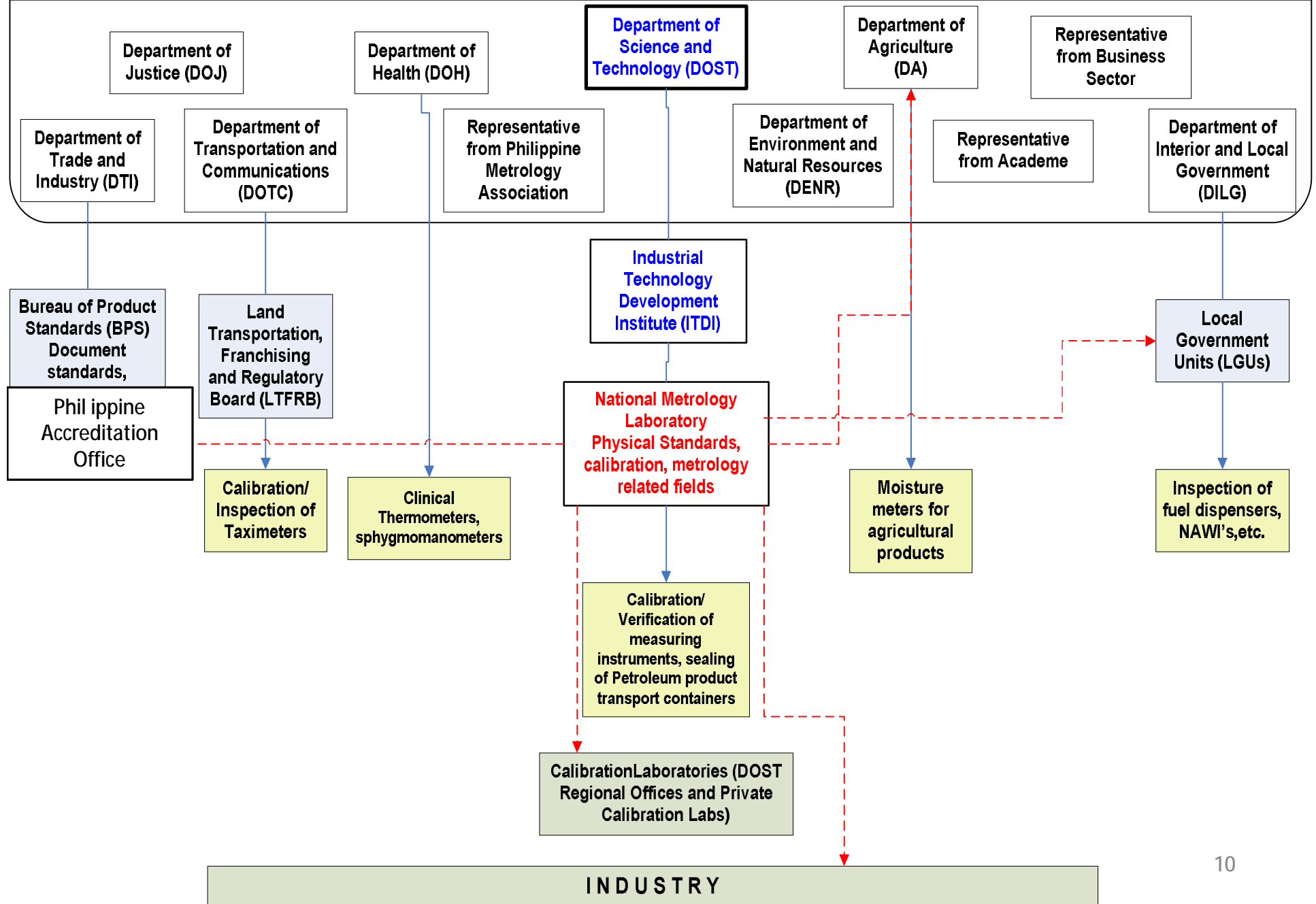
The National Metrology Act of 2003

Section 13. ACCREDITING BODY. - The laboratory accrediting body attached to the Department of Trade and Industry (DTI) is hereby strengthened and recognized under the Act as the national laboratory accreditation body.

The members of the national laboratory accreditation body:

- 1) DTI
- 2) DOST
- 3) FDA-DOH
- 4) FPA-DA
- 5) EMB-DENR
- 6) NTC- DOTC
- 7) DOE
- 8) BHDT- DOH
- 9) DND

National Metrology Board



Current Situation-Legal Metrology

- a) Type Approval of Test and Measuring Instruments (TMI)
- b) Conflict of Interest in providing services to its customers while providing meters for customer use. (e.g. water meters, electricity meters)
- c) LGU Weights and Measures Office (security of tenure, lack of appropriate facilities and technical know how)

Current Situation

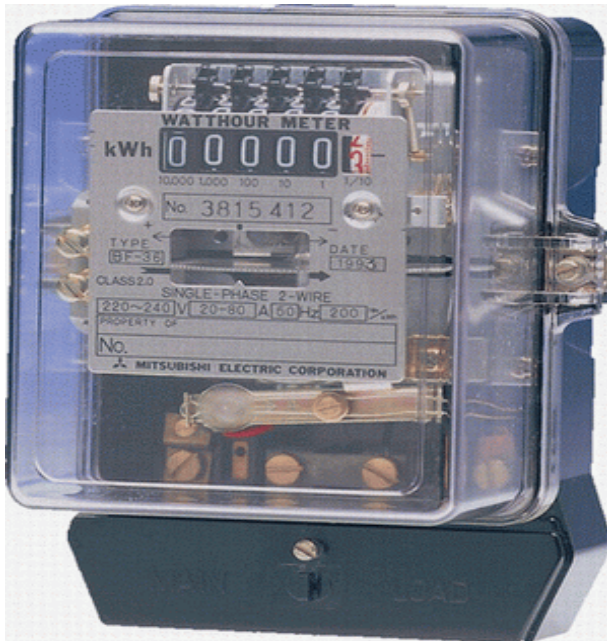
Continuation ...

- d) The NML is a multifunction laboratory, it provides
 - Scientific
 - Industrial
 - Legal metrology
- e) The Regional Standards and Testing Laboratory (RSTL) serve as a secondary laboratory and provides legal metrology.

Type/Pattern Approval of Measuring Instruments

- The NMB/NML and other laboratories do not have the necessary facilities to perform the tests.
- The NMB formed the TWG on “Test Weight and Weighing Instrument (NAWI)” and formulating the necessary guidelines based on ACCSQ harmonized procedures covering NAWI which requires type approval.

Utility Metering: Electricity Meters



Regulatory Body: Energy Regulatory Commission

Distribution Utilities: a) Meralco b) National Grid Corp of the Philippines

UTILITY METERS: Electricity Meters

- Due to the limited calibration and testing capabilities of government measurement or regulatory bodies, meters used by companies providing basic utilities to the public such as water, electric power and transportation are calibrated by same utilities.
- National Grid Corporation of the Philippines (NGCP) and MERALCO calibrate their own metering instrument. The ERC ensures that their calibration activities comply with the International Standards.

UTILITY METERS

- Energy Regulatory Commission (Section 41 of R.A. 9136 Electric Power Industry Reform Act of 2001) ensures that all meters, including instrument transformers, shall be installed or placed in service unless it has been tested, certified and sealed by the ERC.



A typical residential water meter

Stakeholders: National Water Resources and Regulatory Board, Manila Water, Maynilad, Local Water Utilities Administration

Utility Meter: Water Meter

The Utility Company provides meters to its customers, yet, they do the calibration/verification of their meters. There seems to be conflict of interest, there should be an independent third party to do the metrological controls.

Example:

- ✓ Water meters – the water concessionaires (Manila Water, Maynilad in Metro Manila) provide the water meters to its customers and they calibrate/verify the meters.

LGU Weights and Measures Office (WMO)

- a) No appropriate laboratory and standards
- b) The vendors complained that the weighing scales confiscated by WMO Inspectors are returned to them without recalibration. They assume that after paying the penalty they will get back the scales as already verified which is not the case.
- c) No security of tenure. Every time there is a change in administration, most of the Inspectors are also changed with new ones who have no technical experience and background.
- d) Lack of awareness of Local Government Officials on the importance of legal metrology.

LGU Weights and Measures Office (WMO)

Continuation

e) For retail of liquid petroleum products—
Some of the LGUs hire private contractors in checking the fuel dispensers. They witness the checking of fuel dispensers by the private contractors.

Pre-packaged Products

(National Metrology Act of 2003, R.A. No. 7394)

- Rule XI, Section 39. Labeling. -In addition to the requirements for the labeling of products, commodities, goods and merchandise pursuant to Republic Act No. 7394, otherwise known as “The Consumer Act of the Philippines,” the products, commodities, goods or merchandise must contain contents and quantities of substances, nutritional and health value and relevant other information in units prescribed in this Act.
- Contents and quantities must be expressed in terms of SI or other Board-Authorized Units (BAU).

Pre-packaged Products

(R.A. No.7394-Consumer Act of the Philippines)

Art. 74. Declaration of Policy- The State shall enforce compulsory labeling, and fair packaging to enable the consumer to obtain accurate information as to the nature, quality and quantity of the contents of consumer products and to facilitate his comparison of the value of such products.

Art. 75. Implementing Agency – The Department of Trade and Industry shall enforce the provisions of this Chapter and its implementing rules and regulations: That with respect to food, drugs, cosmetics, devices, and hazardous substances, it shall be enforced by the concerned department.

Pre-packaged products

Stakeholders:

- The Department of Health (DOH) with respect to food, drugs, cosmetics, devices and substances.
- The Department of Agriculture (DOA) with respect to products related agriculture
- The Department of Trade and Industry (DTI) with respect to consumer products not specified above.
- The NMB/NML-ITDI

Retail of Liquid Petroleum Products



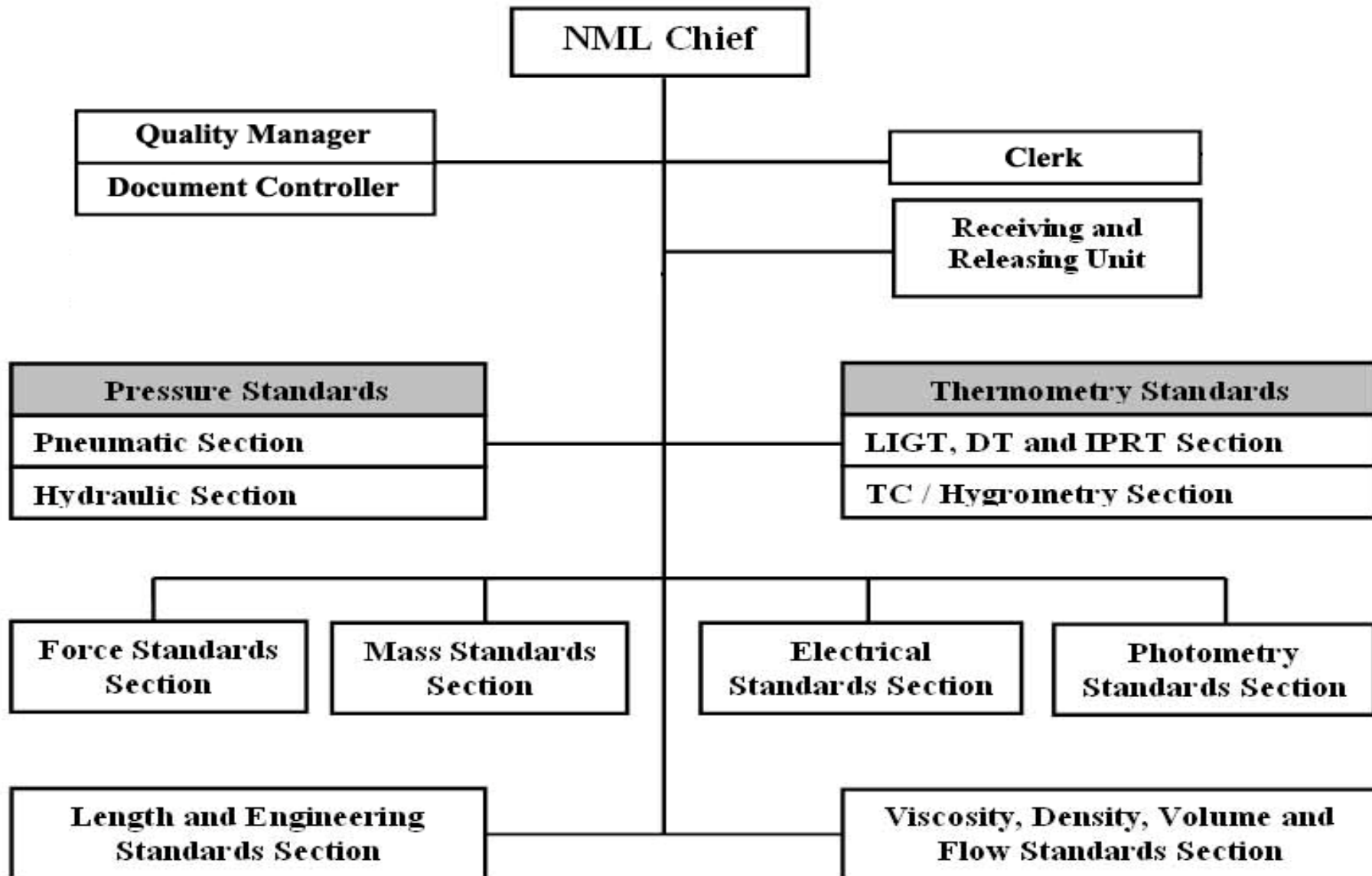
Calibrating Bucket



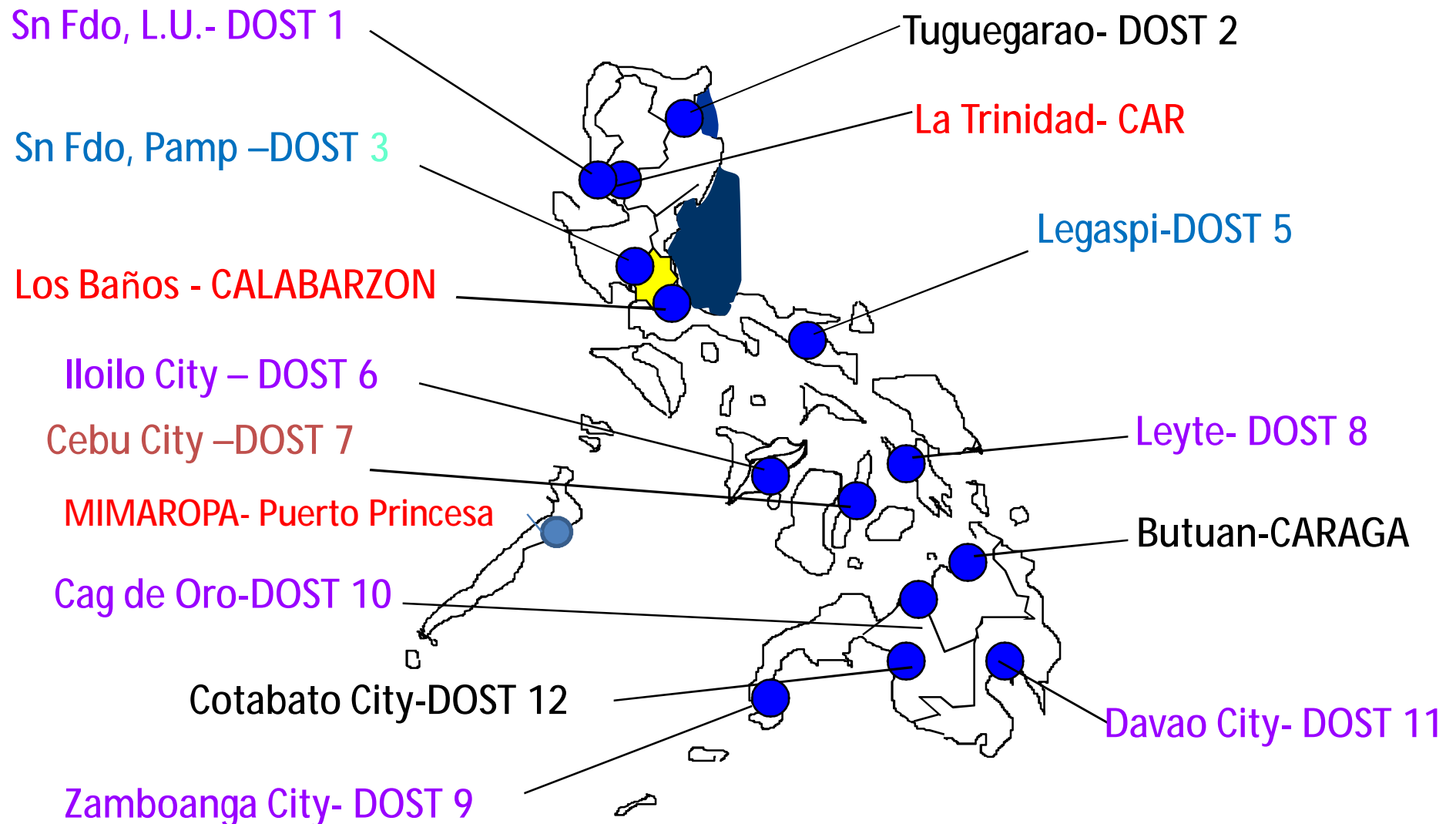
Fuel Dispensers

Stakeholders: NMB-NML- ITDI, Local Government Units, Oil Industry Management Bureau (OIMB)-Department of Energy (DOE)

NATIONAL METROLOGY LABORATORY



DOST REGIONAL CALIBRATION & TESTING LABORATORIES



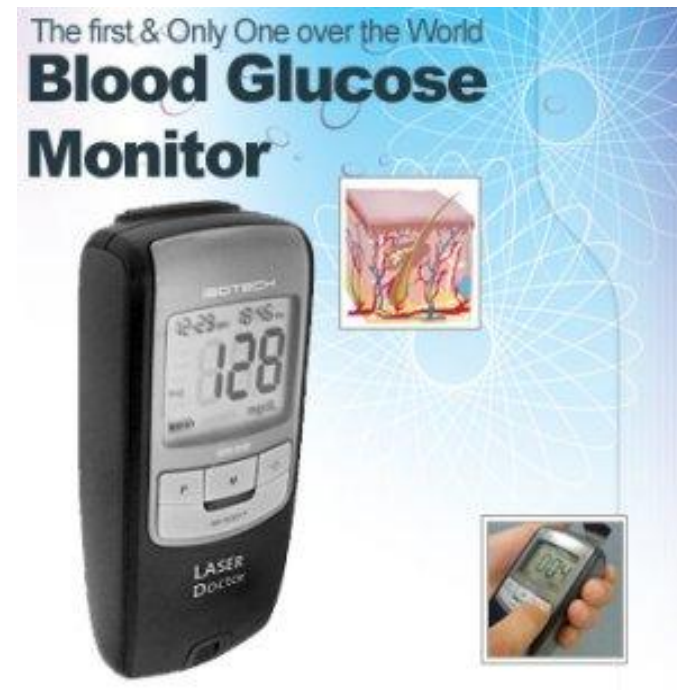
Coriolis Mass Flowmeter





Coriolis Mass Flowmeter

Medical Instrument for health diagnosis and therapy



Regulatory body:
Bureau Of Health Devices And Technology- DOH

FAIR TRADING AND CONSUMER PROTECTION



Lev. 19:35 – 36 - Do not cheat anyone by using false measures of length, weight or quality. Use honest scales, honest weights and honest measures.

DTI, LGU-DILG

Traffic Enforcement



Handheld Instrument for speed measurement

Northern Luzon Expressway (NLEX) & Southern Luzon Expressway (SLEX) deputized by LTO



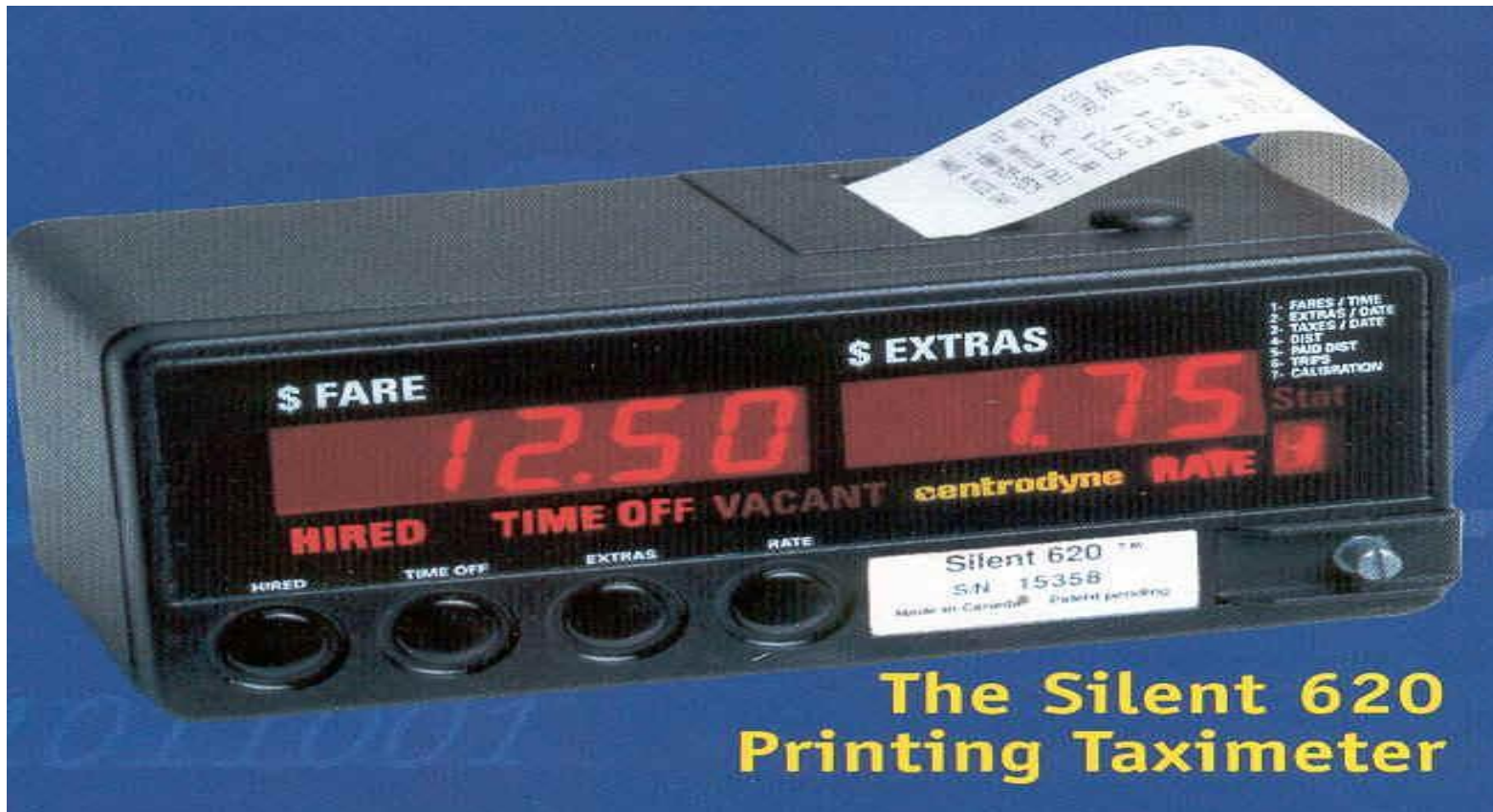
Breath analyzer

Food Safety and Security



Rice Moisture meter

Stakeholders: Philrice, National Food Authority, Farmers' Cooperative, Rice Traders and Millers, etc.



Stakeholders: Land Transportation Franchising & Regulatory Board & Land Transportation Office

THE END

THANK YOU