

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

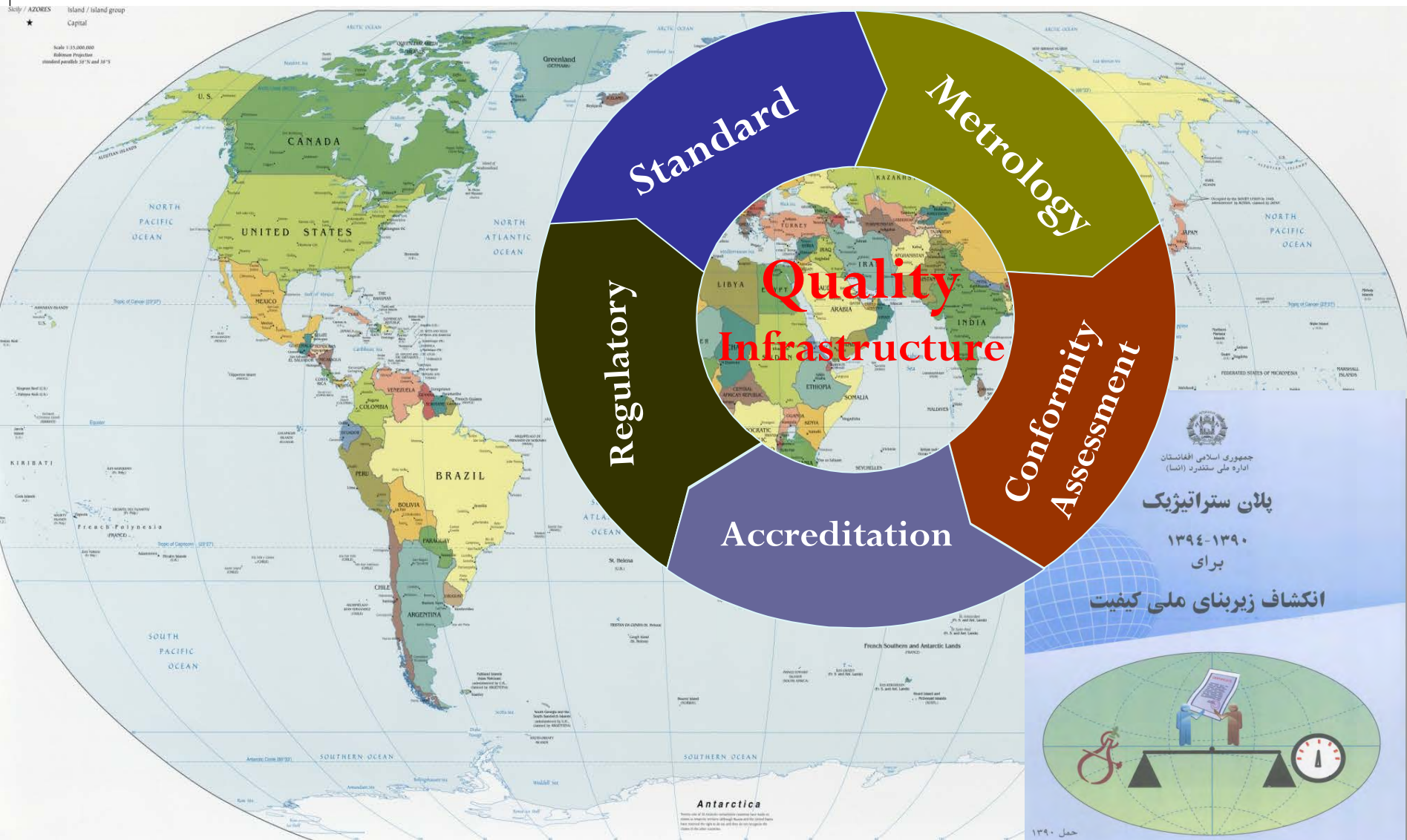


AFGHAN NATIONAL STANDARDS AUTHORITY (ANSA)

DEVELOPMENT & IMPLEMENTATION OF STANDARDS (QC/QA OF WATER TESTING LABS)



اداره مستقل ملی ستندرد





Standard

Product



+



Requirement

Conformity
Assessment
Laboratories



Certification

Accreditation

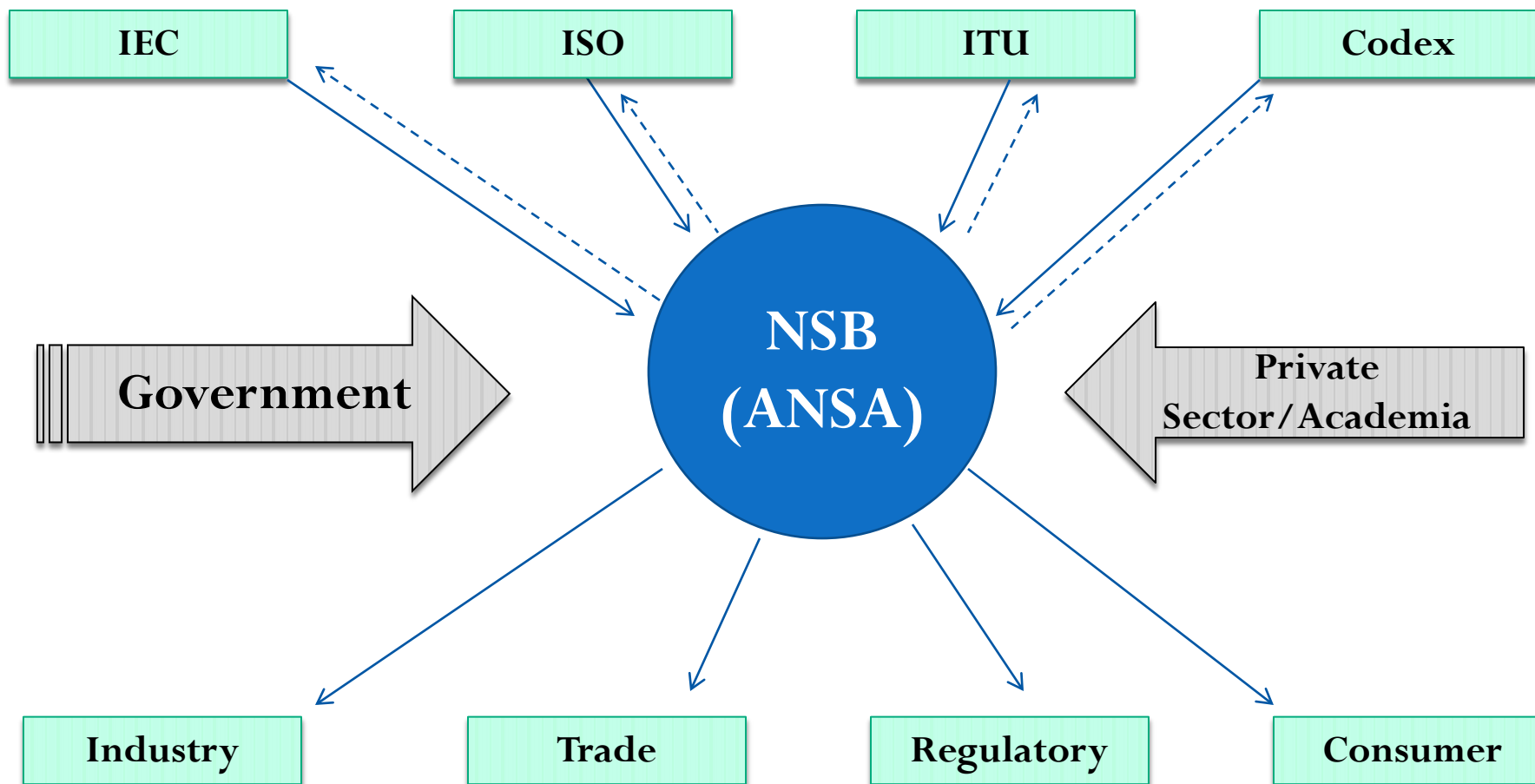


Recognized



Accepted

Metrology – Calibration





Demonstrable and Systematic QA and QC laboratory practices are critical to:

- ❖ Obtaining accurate and precise analytical test results
- ❖ providing management, customers, regulators and community with confidence about test results
- ❖ obtaining independent laboratory accreditation

Accuracy = How close to the real result you are

Precision = How reproducible your results are



Quality Assurance

- ❖ A broad band plan for maintaining quality in all aspects of operations

Quality Control

- ❖ Consists of the steps taken to verify the validity of analytical procedures

Laboratory Quality Manual



Report Result – you are sure?

Observation – verified?

+ve/-ve control used?

Analytical Condition?

Correct Volumes? Verifiable

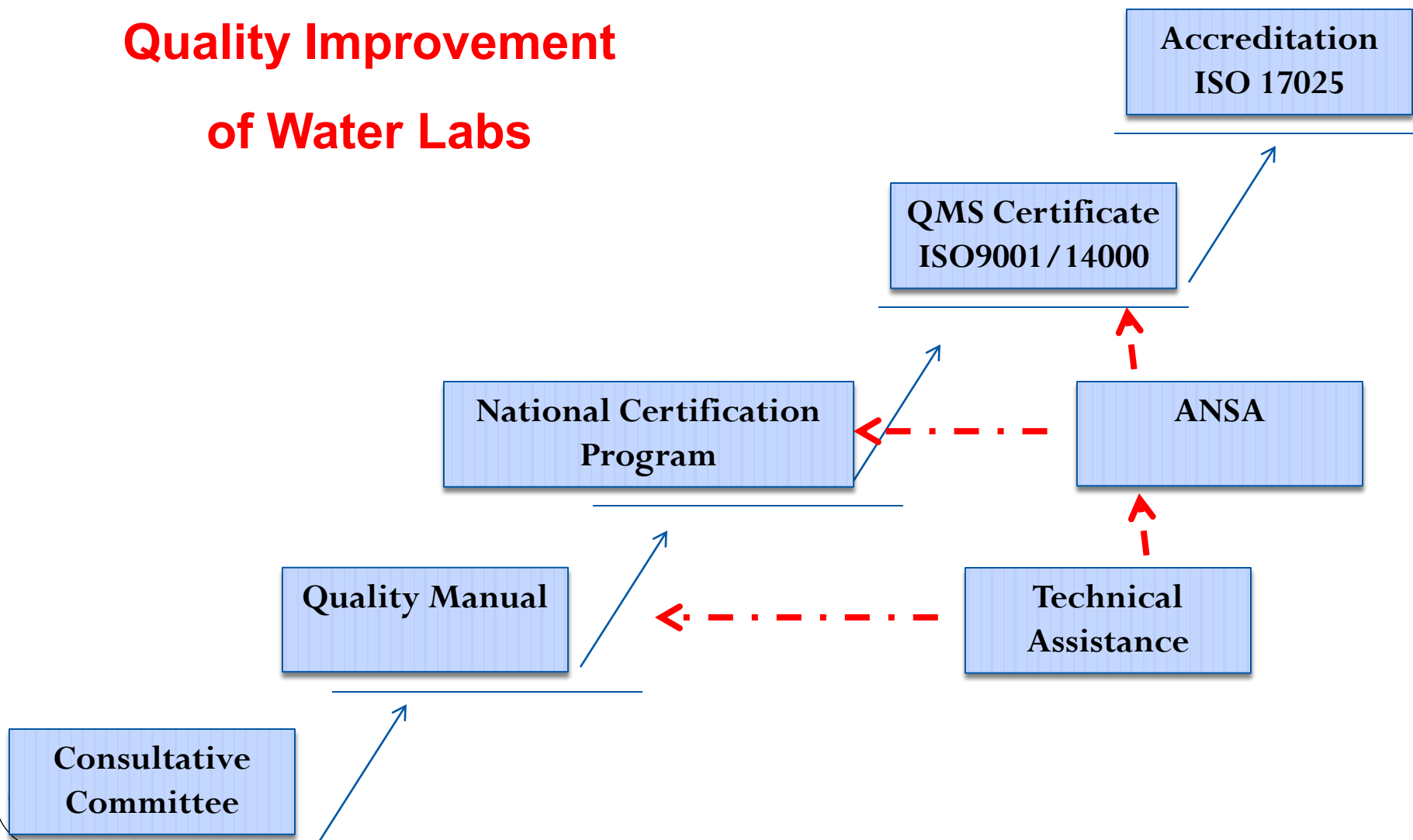
Overall QA System

Equipment calibrated?

Proper Chemicals/ Reagents used?



Quality Improvement of Water Labs



Thanks!