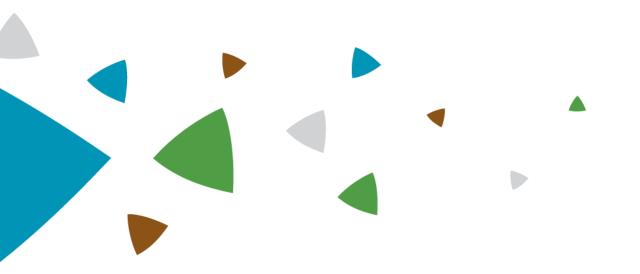
National Quality infrastructure of the Kingdom of Saudi Arabia

COMCEC







QI consists of four core components complemented by technical regulation and market surveillance

QI Chain Component Definitions

Core QI Components

Standardization

Accreditation

Metrology

Conformity Assessment

Complementary QI Components

Technical Regulation Market Surveillance

Developing and documenting detailed product or service characteristics or their related processes and production methods, with which compliance is voluntary

Granting official recognition to conformity assessment bodies (CABs), including testing laboratories, and other relevant bodies

Establishing measurement units for traceability of calibration and testing labs

Ensuring suitability of measurement systems

Includes scientific and industrial metrology

Testing for conformity to pre-defined standards and technical regulations, and conducting inspection prior to market launch

Granting certificates of conformity to products, services, personnel, and systems

Includes production control and followup on products in the market for voluntary conformity Developing and documenting detailed product characteristics or their related processes and production methods, with which compliance is mandatory — typically applicable when consumer health, safety, or wellbeing are involved

Includes legal metrology

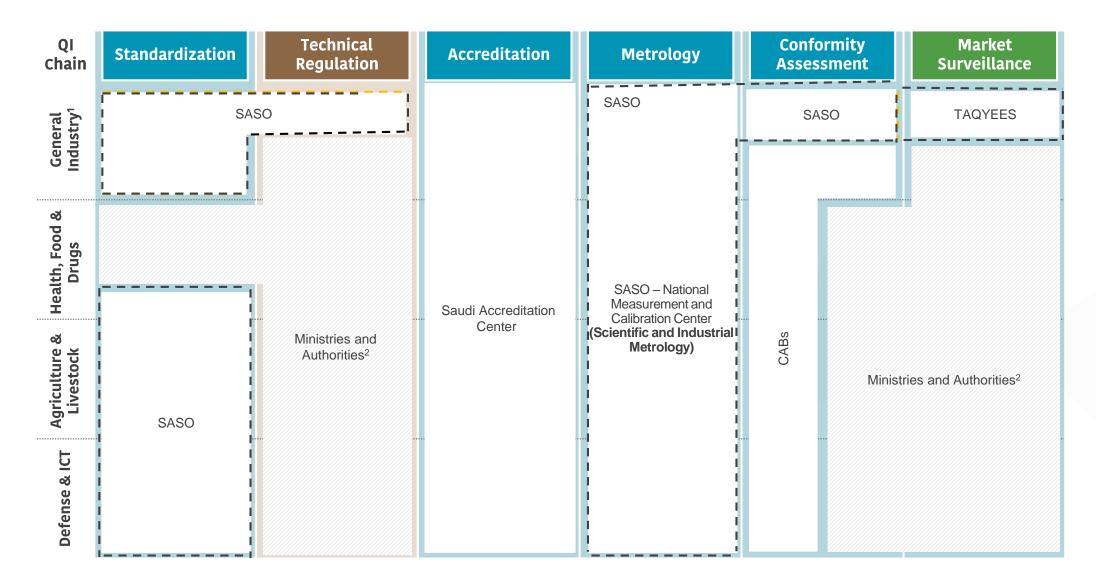
Conducting inspections to verify compliance with laws, regulations (including technical regulations), legal metrology, and consumer safety requirements after products have undergone conformity assessment and have been launched to market

Includes product inspection at customs





QI institutional setup

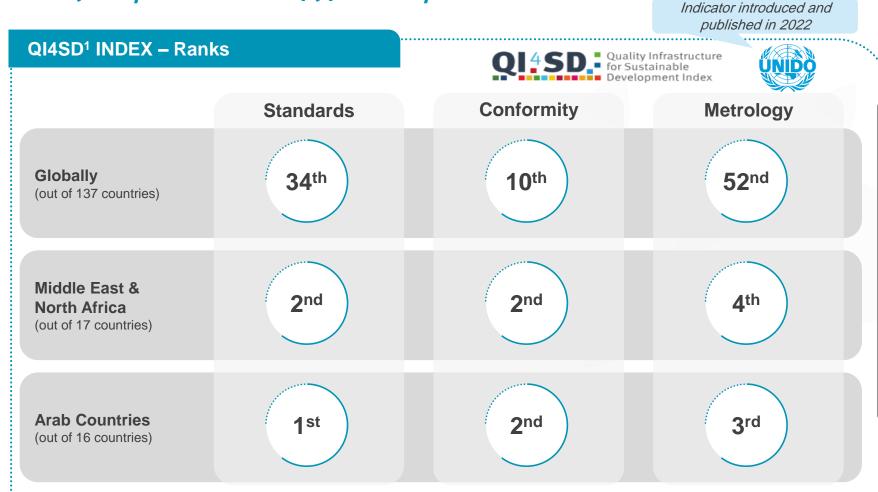






SASO worked hard towards the advancement of QI in KSA across standards, conformity, and metrology

KSA Quality Infrastructure (QI) Maturity



SASO Achievements



Active Int'l Network of Partner. & Memberships



QI CAPABILITIES

ADVANCED

Regional Leadership in QI



Advanced QI Tools & Infrastructure



Advanced Expertise & Technical Knowledge



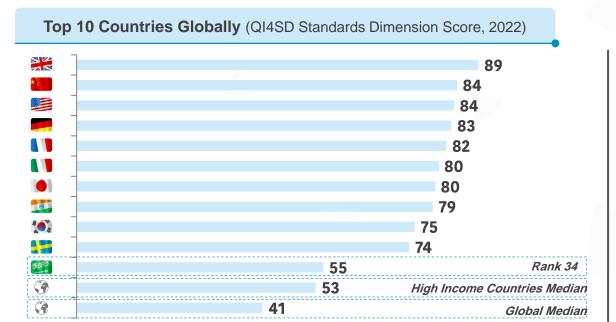


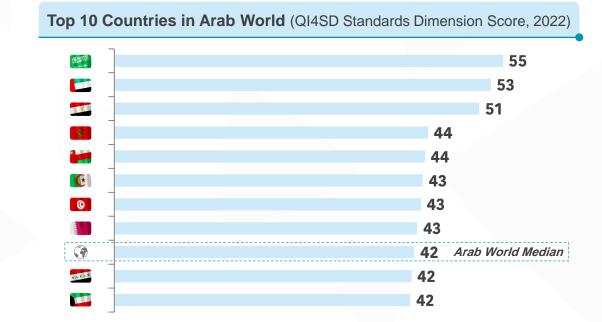
KSA has achieved a strong global ranking and regional leadership in standardization under UNIDO's QI4SD index

KSA Standardization Index Rankings



The **standardization dimension** of the QI4SD assesses a country standardization activities through **indicators** such as **adoption** of standards, international **memberships**, and participation in **technical committees** of **ISO and IEC**







- In terms of standardization, KSA ranks 34th globally, positioning it above both the global median and the median for high-income countries
- KSA is the top ranked country in the Arab World



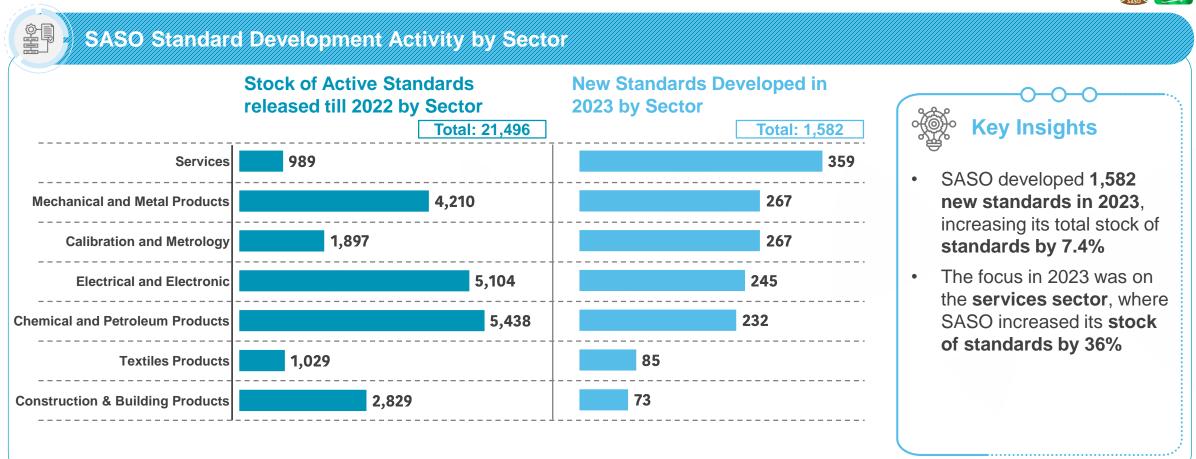


KSA's advanced ranking links to SASO's ongoing efforts to expand and enhance its stock of standards across sectors

SASO Standardization Efforts











Standards priorities are determined through SASO's comprehensive analysis of national strategies

SASO Standard Issuing Strategy





Integration of National Priorities

SASO Standards Issuing Strategy



KINGDOM OF SAUDI ARABIA

STANDARDS ISSUING STRATEGY (SIS)

2022 – 2024

Empowering the national and regional economic



SASO analyzed and studied 50+ National Development Strategies



As a result of the analysis, SASO identified standards' needs



SASO consulted 150+ stakeholders around gap areas for standards



KSA Vision 2030



National Industry and Logistics Program strategy



National transport strategy وزارة النقل والدوات اللووستية



National Environment strategy



Ministry of Commerce Strategic
Plan 2019-2021



NEOM strategy



Sample Strategic Documents Reviewed by SASO in the SIS¹

ICT sector strategy 2023 -



Council of Saudi Chambers



National Strategy for Data & Al



National Export strategy



Saudi Exports Development Authority strategy



Saudi Industrial Development Fund (SIDF) strategy





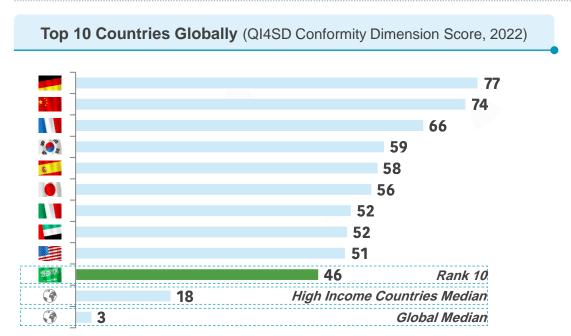


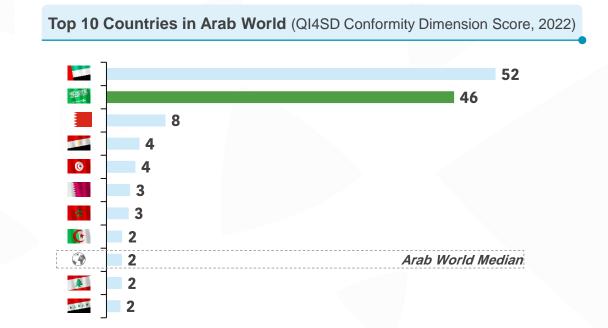
KSA ranks among the top 10 internationally and second regionally on the conformity assessment dimension of the UNIDO's QI4SD index

QI4SD Conformity Assessment Index Rankings



The **conformity dimension** of the QI4SD assesses a country's conformity assessment activities through indicators such as **recognized certificates** and **memberships in IQNet, ISO,** and **IEC**







- KSA ranks 10th globally, surpassing both the global median and the median for high-income countries
- KSA has achieved **regional leadership by ranking 2nd** among Arab countries



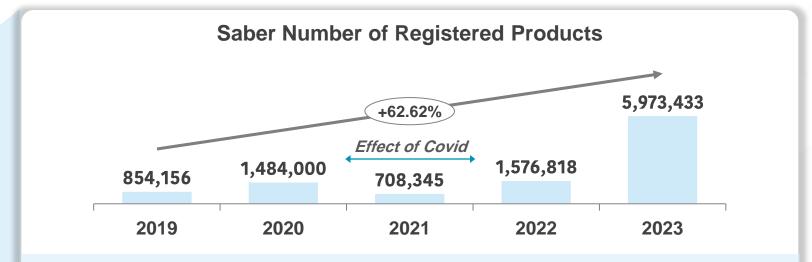
SABER, a notable success in conformity efforts, facilitated and streamlined products' registration process, thereby reducing private sector costs

KSA SABER Platform

SABER Platform

Launched by SASO المابار في 01/01/2019

The SABER platform is an electronic system for registering and certifying products to ensure they meet Saudi market safety and quality standards





The launch of the SABER platform ensured product conformity is achieved in the country of origin, streamlined the registration process, and significantly increased the number of registered products







BENEFITS

- Reduced private sector costs (e.g., shipment returns)
- Accelerated shipment release time
- Enhanced KSA's global competitiveness scoring







The conformity assessment landscape in KSA is growing rapidly, facilitated by SASO's efforts to encourage private sector participation

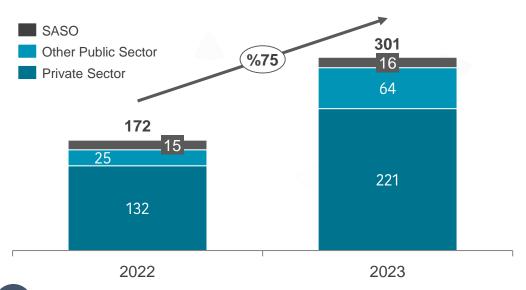
SASO



KSA CAB Landscape Growth

The Conformity Assessment landscape in KSA is undergoing expansion, driven by growth in private sector CABs

Number of Conformity Assessment Bodies (CABs) in KSA (by category, 2022-23)



The number of CABs in KSA **grew by 75%** from 2022 to 2023, driven by private sector, which saw the **largest increase of 89 CABs** among categories

This growth has been facilitated by SASO's efforts in encouraging private sector participation

SASO Initiatives to Enhance Private Sector Participation (PSP)

World Bank

© WARE Recommended

Mechanisms



SASO Efforts

Facilitating
Approval of
Private Sector
CABs

The rapidly expansion of private sector CABs underscores the effectiveness of the robust accreditation and acceptance framework established by SASO and the SAC1

Encouraging use of private CABs

SASO's is encouraging use of private sector, demonstrated by reduced testing conducted by SASO labs, despite increase in total number of tests performed





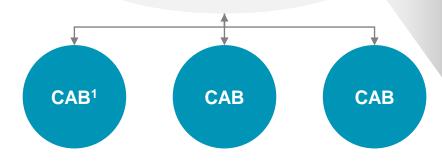
KSA's scientific metrology is led by the NMCC, a dedicated center with 30 labs and key activities in measurement standards, units, and calibrations

SASO Scientific Metrology

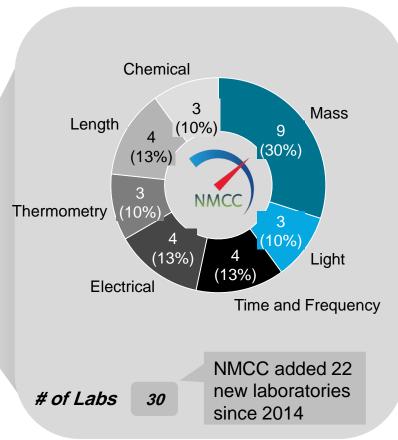
National Measurement and Calibration Center (NMCC) Integration



National Reference Labs
(NMCC Labs)



NMCC National Labs (2024)



NMCC Activities





Establishment and maintenance of measurement standards



Definition of basic measurement units



Calibration and quality control services



Technical consultancy, research and educational activities



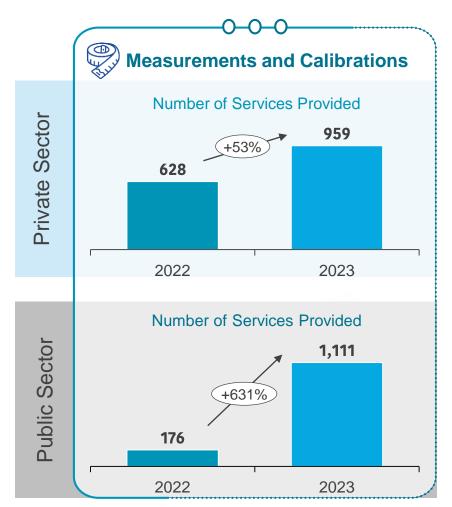
International representation and participation

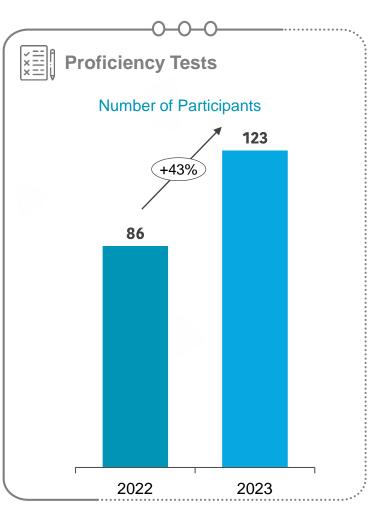


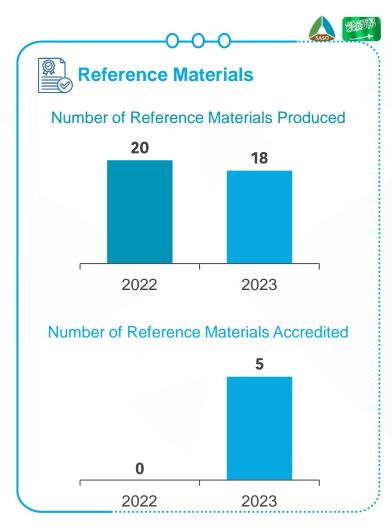


In fact, the NMCC increased its activities across calibration, proficiency tests and accreditation of reference materials in 2023

NMCC¹ Activities











SASO launched Taqyees in 2018 as the legal metrology authority with functions around type approvals, verifications, and market surveillance

Taqyees Program Overview







Overview

- The Tagyees program was **launched in 2018** as a **dedicated centre** for legal metrology
- The program currently covers four measuring instruments (electricity meters, fuel pumps, water meters and trade balances) and its functions include type approvals, initial and periodic verifications, and market surveillance







Type approvals: granting national certificate to measuring devices for market entry based on a model certificate from OIML¹ accredited laboratories to demonstrate compliance with Saudi regulations



Initial verification: technical inspection to ensure that measuring devices are manufactured according to the approved model







Periodic verification: technical inspection to ensure that measuring devices are working properly, carried out either based on a request from the manufacturer/ service provider or after maintenance work is carried out on the device





meters from 3 entities in 2022 to 12 entities in 2023

Tagyees qualifies private sector verification bodies who

then provide the initial and

periodic verification services, e.g., Taqyees increased

number of qualified verification bodies for water



Market surveillance: unannounced checks (either random or based on a consumer report) to ensure that measuring devices operate properly throughout period of use

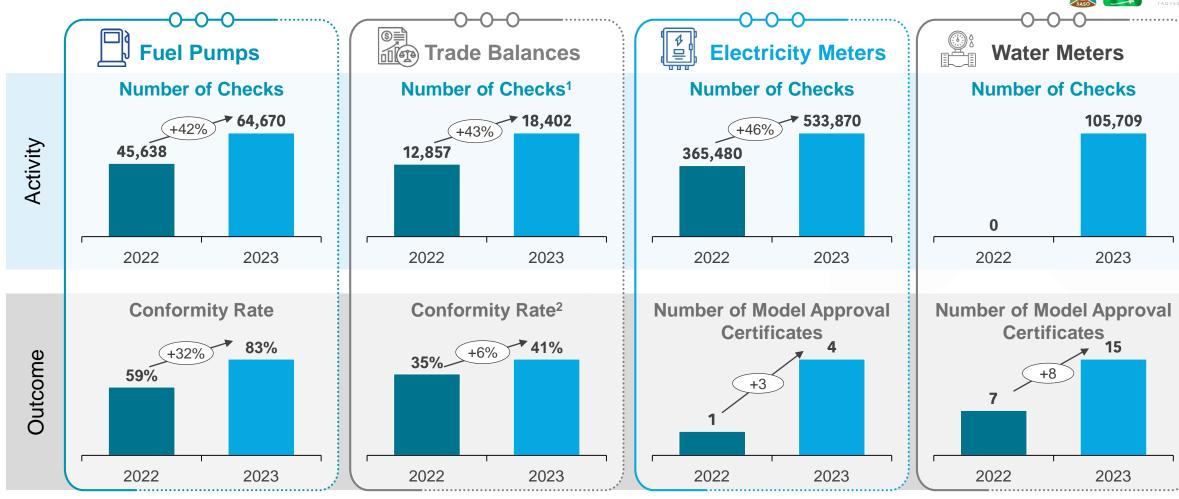


Source: SASO, Strategy& Analysis



Taqyees' efforts to expand activities across the four instruments have improved conformity and certification outcomes

Taqyees Expanded Activities







Thank You