ANNUAL REPORT
HIS HIGHNESS
SHEIKH KHALIFA BIN ZAYED AL NAHYAN
PRESIDENT OF THE
UNITED ARAB EMIRATES

HIS HIGHNESS
SHEIKH MOHAMMED BIN RASHID AL MAKTOUM
UAE VICE PRESIDENT
PRIME MINISTER AND RULER OF DUBAI
CHAIRMAN’S MESSAGE

The achievement of the targets of the national agenda 2021 to strengthen the global stature of our country and ensures compatibility and harmony with our future directions, is extremely important and rigorous in achieving it and reaching it before its scheduled date. As part of our business strategy, we are keen in the Emirates Standardization and metrology authority ESMA not only to achieve the targets but also to achieve them based on the highest standards of quality, efficiency and excellence.

In general, many positive ideas about the growing global confidence in the United Arab Emirates and the continuous rise in our economic, investment and trade reputation that indicates for our ability to make further progress in the process of our economy and its development. The trust and reliability of producers and consumers in the global regulatory policies and standards we adopt and apply is not limited to the current time. It’s looking forward.

We are pleased for being part of the federal government system, which seeks to achieve the goals of the UAE national agenda, at different levels and multiple indicators. The most notable is the competitive knowledge economy and associated sub-indicators, similar to the growth rate of non-oil Gross Domestic Product (GDP), and the person share of Gross National Income (GNI) and Global Competitiveness Index, in which the UAE ranks 17th globally. We look forward to spending more efforts to achieve new developmental leaps in the coming years.

The ambitious government plans to contribute to goals achievement of sustainable development do not stop at the adoption of accelerators to accelerate growth in the domestic sectors alone. It has become involved in formulating of a global vision to unite international efforts and launch initiatives that contribute to the advancement of communities and achieve the aspirations of new generations for a more stable and justice future’s. This is what we are blessed in with our young country and our wise leadership.

In all of our steps we are always guided by the quote of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice-President, Prime Ministers, ruler of Dubai: “In our quest for the future, we are aware that our success level in securing a prominent and leading place for our country in this future depends on our competence of looking to it and on the efficiency of all our governmental and private sectors in keeping abreast with future variables and adapting to their requirements in the right time.”

We at the Emirates Authority for Standardization and Metrology “ESMA” are keen to provide our users with distinctive services, in easy ways and all the time. We want to ensure that the authority’s services meet our wise leadership expectations, to bring happiness to the people of the UAE, and to regional and international institutions that deal with us, in a way that reflects the positive spirit of society.

Now, “ESMA” has come a long way in the area of innovation and excellence, the continued pursuit for regional and international leadership, the creation of infrastructure and the development of markets and business. We continue to do so to contribute to the improvement of the quality of life in the country and to further progress and growth and to achieve sustainable development at all levels.

During the year of 2017, the authority completed a number of projects and programs to achieve the highest health and safety rates in society, preserve the environment and the rights of consumers. It also enhanced consumer’s confidence in the products traded in the country’s markets, in addition to implementing several programs and projects aimed to facilitate and promote trade between the UAE and other countries.
DIRECTOR GENERAL MESSAGE

We are moving forward in a way that is not short, and not free of challenges, in order to contribute seriously in elevating the quality of life in the country, achieving good growth opportunities for the national economy, facilitating the trade exchange between UAE and the world, and strengthening the legislative structure of the UAE. Whenever an achievement already accomplished, we look at what followed, in a spirit of enthusiasm and confidence in the capabilities of our beloved country.

The Emirates Authority for Standardization and Metrology (ESMA), is a prominent axis at the federal level, has a vision that aspires to global leadership in building confidence in products and quality systems. It has an ambitious message aimed at strengthening the national economy through the issuance of technical regulations, standards in areas of safety, health and environmental protection of products and services and control over its implementation.

Our ambition limits do not stop at certain geography or a specific timeline. (ESMA) - as our country- has no limits to ambition and excellence, as we keep in mind the first place in the promotion of quality’s infrastructure and in the provision of services based on all possible programs and systems, artificial intelligence and innovation to ensure that the UAE’s indicators of excellence and leadership move forward.

We work at (ESMA) In the spirit of the federal government team under the umbrella of our wise leadership and for the achieving of this vision we have strategic partners from the governmental and private sectors. We look at them with great appreciation as our partners in providing a sustainable environment and integrated infrastructure, as well as our counterparts in raising the limit of Institutional ambition, that always seeking the number one, developed, trendy, intelligent, and innovative.

ESMA works in the light of UAE Vision 2021, to achieve the highest rates of excellence in indicators and targets of the national agenda. We always keep in mind the words of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice president, Prime minister, ruler of Dubai when he said that “ we have our national agenda targets to achieve and promote progress in its indicators.” Calling for a new accomplishment to be recorded every day and to deal with the impediments of progress in a maximum speed and efficiency, whatever and where are found.”

On this basis, ESMA has developed its strategic plan, which includes several strategic projects under implementation, which ensure that external, social, economic, environmental and technical changes are kept up. We also establish the culture of innovation and excellence to ensure Continuous improvement in the level of service quality and maximizing the convenience of customers.

We now show you our annual report 2017, a year that witnessed issuing a number of legislation and regulations of promoting the concepts of quality in society by ESMA in the sectors of electricity, electronics, mechanics, vehicles, food, agriculture, cosmetics, metrology, plastics, Chemistry and many more.

In parallel, we aim to accomplish the highest standards of customer service. We focus on their satisfaction and happiness and seek to raise consumer confidence indicators for domestically manufactured products, and achieve external consumer confidence in the quality of products re-exported from the UAE to his country.. and strengthening of our national economy and the UAE leading position.
Develop and issue UAE national standards.

Ensure consumers safety and environmental protection while supporting the UAE economy through the implementation of UAE standards.

Develop and implement the national scheme for measurement and calibration and monitor its application.

Monitor the implementation of approved UAE standards, grant the Emirates Quality Mark (EQM) to national products, and issuing certificates of conformity.

Grant certification to inspection and calibration labs, inspection authorities and conformity-certificate granting authorities.

Issue, provide, distribute and sell UAE standards, related publications other media activities.

Represent UAE in conferences and assemblies on the GCC, MENA and international levels.

Provide up-to-date information on standardization and relevant activities and stakeholders at the national, regional and international levels through the Information Center.

ESMA is a liaison point of technical barriers to TBT trade with countries all over the world related to specifications and technical regulations and conformity programs.
BOARD OF DIRECTORS
of Emirates Authority for Standardization and Metrology

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H.E. Matar Hamed Al Neyadi
Undersecretary of the Ministry of Energy and Industry

H.E. Sultan Abdullah Alwan
Assistant Undersecretary for Regions Sector, Ministry of Climate Change and Environment

Representative of Chamber of Commerce and industry - Abu Dhabi
OUR MISSION
Enhance the national economy and attain improvement of quality of life through issuing technical regulations and standards in the fields of safety, health and environment protection with monitoring the implementation of these regulations.

OUR VISION
Global Leader in building trust in Products and Quality Systems

COMPETITIVENESS
To Improve UAE competitiveness, develop and empower the national capabilities working in the field of standardization and raise awareness of its importance.

SUSTAINABILITY
To improve the quality of the products and services to support sustainable development and enhance the quality of life and the position of UAE as a global economic center.

SUPPORTIVE WORK ENVIRONMENT
To ensure quality, efficiency and transparency in the provision of all administrative services.

INNOVATIVE ENVIRONMENT
To build a culture of innovation within the organizational environment.

OUR VALUES
Loyalty and Belonging Initiative and Creativity Teamwork | Customer-centric Transparency and Efficiency Learning and growth
<table>
<thead>
<tr>
<th><strong>EXPERTS</strong></th>
<th><strong>SUPPORTIVE GOVERNMENT AUTHORITIES</strong></th>
<th><strong>PRIVATE SECTOR</strong></th>
<th><strong>INTERNATIONAL ORGANIZATIONS</strong></th>
<th><strong>ACREDITED BODIES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>They are people specializing in various sectors who have extensive experience to benefit in:</td>
<td>ESMA national partners in implementation of its various projects and they are authorized entities under agreements and memoranda of understanding to:</td>
<td>Representatives from the industrial and commercial sector as to technical regulations in various sectors to take part in national committees to develop technical regulations and standards to utilize their expertise and capabilities at employers in this field</td>
<td>A source to ESMA to access unified technical standards and benefit from research and memberships in international committees, and to participate in international meetings</td>
<td>Bodies that grant conformity certificates to products, service providers and accreditation bodies</td>
</tr>
<tr>
<td>Developing standards and regulations</td>
<td>Represent the UAE in international meetings related to Standardization activities</td>
<td>Facilitating trade exchanged and eliminating technical barriers</td>
<td>Implementation of accreditation procedures</td>
<td></td>
</tr>
<tr>
<td>Applying assessments to conformity bodies</td>
<td>Develop control systems and technical regulations</td>
<td>Enhancing consumer confidence in products</td>
<td>Participating in expert or assessor base, assessing counterparties and mutual recognition</td>
<td></td>
</tr>
</tbody>
</table>
STANDARDS-
IN EVERYDAY LIFE
INCREASE IN INTERNATIONAL RELATIONS AND MUTUAL RECOGNITIONS OF CONFORMITY CERTIFICATES.

PREPARING & ISSUING STANDARDS AND TECHNICAL REGULATIONS IN LINE WITH GLOBAL DEVELOPMENTS

STRENGTHENING NATIONAL COOPERATION AND INTEGRATION

ENHANCE THE EFFICIENCY OF CONFORMITY ASSESSMENT ACTIVITIES

IMPLEMENTATION OF LEGISLATION AND TECHNICAL REGULATIONS AND THE PROMOTION OF PRODUCT CONFORMITY

ENHANCING THE EFFICIENCY OF MEASUREMENTS IN THE COUNTRY

ACHIEVEMENTS 2017

1. INCREASE IN INTERNATIONAL RELATIONS AND MUTUAL RECOGNITIONS OF CONFORMITY CERTIFICATES.
2. PREPARING & ISSUING STANDARDS AND TECHNICAL REGULATIONS IN LINE WITH GLOBAL DEVELOPMENTS.
3. STRENGTHENING NATIONAL COOPERATION AND INTEGRATION.
4. ENHANCE THE EFFICIENCY OF CONFORMITY ASSESSMENT ACTIVITIES.
5. IMPLEMENTATION OF LEGISLATION AND TECHNICAL REGULATIONS AND THE PROMOTION OF PRODUCT CONFORMITY.
6. ENHANCING THE EFFICIENCY OF MEASUREMENTS IN THE COUNTRY.
7. ENHANCEMENT OF CONSUMER CONFIDENCE AND SAFETY IN PRODUCTS.
ACHIEVEMENTS 2017
 Increase in international relations and Mutual recognitions of conformity certificates.

60% increase in the mutual recognitions between UAE and international authorities related to standardization

22% increase in the rate of MOUs and agreements held with international bodies

93 Number of Regional and international committees the Authority participates in.

Mutual Recognitions
Facilitate commercial exchange between UAE and other countries, so that the conformity certificates issued by the authority and other countries receive recognition among one another in terms of the relevant areas.

ESMA obtained 8 International Recognitions from the international organizations.

<table>
<thead>
<tr>
<th>Gulf Accreditations</th>
<th>International Electrotechnical Commission (IEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 GAC-TOY</td>
<td>5 IECEx</td>
</tr>
<tr>
<td>ESMA is an accredited body that issues certificates in the sector of children's toys.</td>
<td>ESMA is an accredited body that issues certificates in the field of electrical equipment for use in Explosive Atmospheres</td>
</tr>
<tr>
<td>2 GAC-LVE</td>
<td>6 IECEx</td>
</tr>
<tr>
<td>ESMA is an accredited body that issues certificates in the field of low-voltage electrical equipment and appliances</td>
<td>ESMA is an accredited body that issues certificates in assessing conformity of electrotechnical equipment and Components</td>
</tr>
<tr>
<td>3 GAC-HALAL</td>
<td>7 IECEx</td>
</tr>
<tr>
<td>ESMA is an accredited body that issues HALAL certificates</td>
<td>ESMA is an accredited body that issues certificates in the field of renewable energy products</td>
</tr>
<tr>
<td>4 BIPM</td>
<td>8 ISO 17065</td>
</tr>
<tr>
<td>Meter Agreement</td>
<td>ESMA is an accredited body that issues certificates according to requirement from the International Organization for Standardization and the International Electrotechnical Commission</td>
</tr>
</tbody>
</table>
Emirates Authority for Standardization and Metrology is an active member in many international and regional authorities and organizations related to the fields of standardization, metrology, conformity and accreditation.

### Regional and International Memberships

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Gulf Association for Metrology “GULF MET”</td>
<td>Asia-Pacific for Lab Accreditation Cooperation (APLAC)</td>
<td>Standards and Metrology Institute of Islamic Countries (SMIIC)</td>
</tr>
<tr>
<td>International Organization for Legal Metrology (OIML)</td>
<td>GCC Standardization Organization “GSO”</td>
<td>GCC Accreditation Center</td>
</tr>
<tr>
<td>International Halal Accreditation Forum (IHAF)</td>
<td>International Laboratory Accreditation Cooperation (ILAC)</td>
<td>Arab Accreditation Authority (ARAC)</td>
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<tr>
<td>World Trade Organization (WTO)</td>
<td>Arab Industrial Development and Mining Organization (AIDMO)</td>
<td>CODEX</td>
</tr>
</tbody>
</table>
ACHIEVEMENTS 2017
Strengthening national cooperation and integration

Rate of increase in MoUs and agreements concluded with national authorities

20%
ESMA enhances the economic, environmental, and social sustainability in the country through developing and implementing a number of projects and programs.

These projects aim to ensure the health and safety of the community and to reduce negative environmental impacts of products, buildings, and vehicles.

They include standards, regulations, and controlled schemes to reduce environmental pollutants and energy consumption, to then achieve leadership in green practice in the country.

To ensure the application of best practice and achieve UAE Vision 2021, ESMA ensures the integration of all relevant fields by coordinating with the public and private sectors both in and outside the country.

Four new projects were prepared and issued in 2017.

### ACHIEVEMENTS 2017

#### Preparing & issuing Standards and Technical regulations in line with global developments

1. **Preparation and development of the UAE’s mandatory standard for tobacco and its products, Dokha, as first technical regulation of its kind in the world.**

   **The regulation includes:**
   - The technical requirements to be met in the Dokha tobacco product
   - Import requirements
   - Manufacturing requirements
   - Packing | display | trading |
   - Weights | descriptions on the product label

   **It aims to:**
   - Prohibition of the production, import, manufacture, packaging, display or trading of the product except in facilities licensed for this purpose, and the prohibition of adding any materials or components to the product.

2. **UAE Milk and Dairy Products Control Scheme:**

   **It aims to:**
   - Ensures the provision of healthy, safe and high quality standards for food.
   - Contributes to minimizing waste and loss of perishable products in order to preserve the environment.
   - Increases confidence in local products to enhance the competitiveness of these products abroad.
   - Protects consumers by ensuring product safety throughout the supply chain.

3. **UAE Juices and Beverage Control Scheme:**

   **It aims to:**
   - Unifies standards, legislations, and compliance with the requirements set forth in the explanatory statements on juices and beverage products, which reduces the financial costs of the food industry.
   - Improves the quality of life and contributes to healthier lifestyles by reducing sugar content in drinks.

4. **The UAE Energy Drink and Food Control Scheme:**

   **It aims to:**
   - Reduces the health implications related to these products, as there have been cases of death due to the consumption of energy drinks and products with a high content of stimulants (caffeine, taurine, glucuronolactone ...).
   - Ensures the health and safety of the consumer.
   - Supports health authorities and tightens the control on energy products and foods.

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**Increasing the number of Standard developed across different sectors:**

9.7%

**Increasing number of issued UAE Standards compared to the previous year:**

9%
ESMA contributes to enhancing the national economy in the industrial and commercial sectors. It enhances the quality of products traded in the country to maintain the rights of the consumer and the investor. In 2017, ESMA completed a number of projects and programs related to conducting accurate measurements to enhance confidence in the products of the country along with supporting projects which are intended to enhance the quality of products and the efficiency of the processes related to the approval of the competent authorities to verify the products through the following:

**Achievements 2017**

Enhancing the efficiency of measurements in the country

- **94%** Percentage of legal measuring instruments confirmed

ESMA will provide the following programs to be controlled in the country:

- Electricity, water and gas meters in the country
- Heat meters and dimensions
- Radiation measurements in the medical field
- Measurements in the field of radiation
- Measurements in the field of environment
- Accurate measurements in the fields of chemistry and space sciences

1. **Verification of the measurement instruments in the country**

ESMA verifies the measurement instruments tools within the framework of the measurement programs that are controlled by in the country and include:

- Gold and Jewellery scales
- Commercial balances
- Truck scales
- Fuel meters
- Medical measuring devices
- Pre-packages

It aims to:

- Adjust measurements in measuring instruments used for commercial transactions.
- Protect the rights of consumers and customers.
- Contribute to giving confidence in the measurements in the markets of the country, which enhances the customers’ confidence.
- Improve the country’s reputation as a global trading center.
- Support economic sustainability programs by reducing losses resulting from measurement errors.
- Raise awareness among traders and consumers of the importance of measurement and the role of relevant parties in maintaining, properly using and periodically calibrating the used scales.
2. Verification of pre-packages

It aims to:

- Protect the consumer’s rights through ensuring the accuracy of quantities in Pre-packages.
- Producers / manufacturers are required to use the approved measurement units in accordance with the International System of Measurement Units.
- Provide confidence between consumers / producers.

85% percentage of the conforming pre-packages with the standards and technical regulations

3. Verification of medical measuring devices

It aims to:

- Verify the measurement accuracy of the medical measuring devices such as medical thermometers, sphygmomanometers and medical syringes.
- Enhance the level of individual health care.
- Ensure the accuracy of the medical measurement devices in the country.
- Contribute to achieving the objectives of the health authorities in the country which seek to maintain the people’s health and provide public welfare.

91% percentage of conformity for the medical measuring devices verified by the country with the standards and technical regulations

4. Verify oil meters at filling stations

It aims to:

- Verify fuel meters in the country and ensure accuracy of their readings
- Reduce economic waste

99% Percentage of conforming meters is 99%

5. Verify taximeters in the country

It aims to:

- Ensure accuracy of the results of the meter readings
- Protect the rights of passengers and taxi companies
- Make fair calculation of the fare to guarantee the right of the passenger and taxi companies
- Ensure that the meter reading is not affected by maintenance works

88% Percentage of taximeters in the country subject to verification in conformity with the specifications and regulations
6. Authorization of the National Institute of Measurement

In order to achieve government-to-government partnerships in the UAE and unify efforts to provide public welfare in the United Arab Emirates, ESMA approved the Emirates Metrology Institute as a national Metrology Institute in the country on 9 May 2017. ESMA signed an authorization agreement under which such institute shall perform observation and supervision of national measurement standards. This shall include 11 fields of measurement:

- Mass
- Pressure
- thermometry
- Force
- Torque
- Dimensions
- Frequency
- Flow
- Electrical measurements
- Volumes
- Time

In 2017, the country participated in:

- 4 International committees of the International Bureau of Weights and Measures and meetings of the technical committees
- 8 Programs for international inter-comparisons of calibration laboratories

The National Institute of Measurement aims to:

- Observe and supervise national measurement standards.
- Achieve leadership in the field of scientific metrology through direct communication and comparisons with the best national Metrology institutes and participation in the scientific research of measurement units, which are supervised by the joint committee of regional meteorology organizations (JCRB).
- Cooperate with the academic institutions in the country for the purposes of scientific research and participate in forward-looking programs in line with UAE Centennial Plan 2071.
Implementation of the National System for the Control of Conformity Assessment Bodies

ACHIEVEMENTS 2017

Registration

It is the approval granted to conduct the conformity assessment activity after verifying that the conformity assessment body complies with the relevant technical requirements.

The implementation of the registration system for conformity assessment bodies covers all emirates since enforcement date the decree (35) in March 2016, according to action plans and partnership projects with the relevant local authorities.

Accreditation

It is the formal attestation by the National Accreditation System that the conformity assessment body complies with specific requirements and it is competent to carry out the specific activities specified in the Accreditation scope.

Accreditation Schemes

<table>
<thead>
<tr>
<th>1</th>
<th>Testing Laboratories</th>
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<tbody>
<tr>
<td>2</td>
<td>Calibration Laboratories</td>
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<tr>
<td>3</td>
<td>Inspection Bodies</td>
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<tr>
<td>4</td>
<td>Product certification Bodies</td>
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</tbody>
</table>

Notification

Following Government’s vision to engage the private sector in service provision and to ensure an increase in the number of service provision channels, ESMA has launched the “Notification System”, the first of its kind in the MENA Region that is based on a comprehensive evaluation by a recognized accreditation body of competence and capabilities of the conformity assessment bodies provided services. This contributed to the increase the number of the issued certificates and improving the customers’ satisfaction.

National accreditation is an element of the quality infrastructure that supports the implementation of technical regulations and legislations issued by various regulatory bodies and decision-makers in the UAE.
2. Building technical capacity in the fields of conformity assessment

The National Accreditation System manages a database of assessors and technical experts approved in accordance with the international practices in different specialized sectors to carry out the assessment and prepare technical requirements within the accreditation procedures according to the practices and standards related to the accreditation of conformity assessment bodies.

3. Initiative of Communication with ENAS

"TAWSUL with ENAS" is a new channel introduced by the National Accreditation System for direct communication with its customers, partners and interested parties to address and discuss any updates and requirements of the Emirates National Accreditation System (ENAS) and the control system of conformity assessment bodies.

The first forum of the initiative was held with the conformity assessment bodies accredited in the mandatory scopes - soil testing and investigation laboratories and lifting equipment inspection bodies - to discuss the challenges facing all parties within this system.
Increase the number of cooperation agreements with the halal accreditation bodies in order to determine halal certificates – granting bodies in accordance with the requirements of Halal in the UAE.

Gulf Accreditation Center
Hungarian Accreditation System
Emirates International Accreditation Centre
Australian-New Zealand Joint Accreditation Authority
Italian Accreditation Authority
Spanish Accreditation Authority
American Association for Laboratory Accreditation

Arranging the process of entering halal products into UAE market so that enable local market to provide halal products that are trustworthy to the consumer and create a solid ground to facilitate the process of global trade of halal products.
ACHIEVEMENTS 2017
Implementation of legislation and technical regulations and the promotion of product conformity

The Authority implements regulations and legislations issued for products and services and certify conformity to the standards and regulations along with supervision applied, so as to achieve the expected benefits and effects. These include maintaining health and safety and striving to achieve social happiness and well-being, in addition to promoting a sustainable environment and an integrated infrastructure. The Authority implemented the following projects:

1. MyDrones Platform – Registration of Unmanned Aerial Systems (UAS) – 1st Phase (the first of its kind in the world)

The platform been developed in cooperation with the authority, the General Civil Aviation Authority (GCAA), Ministry of Interior, Telecommunications Regulatory Authority (TRA), Federal customs authority and Dubai Police General Command.

- Reduce the risk of consequences such as AED350 thousand losses per minute of air traffic delays
- It aims to:
  - Keep abreast of modern technological developments in recreational, commercial and industrial sectors
  - Regulate the trade of UAV products and unmanned aerial vehicles used for recreational, commercial and service purposes
  - Ensure public and air navigation safety and protect the community and passengers traveling through airports
  - Reduce obstruction of radar operations and other system devices in airport control towers

2. Prepare and apply GCC technical regulations for low-voltage electrical appliances and equipment

It aims to:
- Regulate Gulf standards and measurements in the Member States to promote economic integration and economic development.
- Develop controls to ensure the safety and quality of goods which enter GCC markets
- Ensure consumer protection and public health as well as protection of the environment to contribute to the Gulf economy
- Eliminate technical barriers challenging trade in the Gulf market.

The Authority takes top rank in the field of issuing certificates of conformity for 1594 products assigned by the GCC Accreditation Center, from a total of 35 different destinations.
3. Applying the UAE system for controlling varnish and paint products

Paint and varnish products are classified using the green card system based on awarding stars for efficient environmental performance (this is the first system of its kind globally).

It aims to:
- Improve the efficiency of housing and buildings in terms of environment and provide a healthy environment for all - free from the impact of harmful materials such as VOCs and heavy metals involved in the manufacture of these products.
- Reduce the negative effects caused by non-conforming products on health, public safety and the environment.

4. Application of the UAE system for controlling personal protective equipment (PPE) and equipment for professionals

Equipment and products include protective helmets, safety shoes, gloves and safety glasses for industrial use, including professional garments, masks and other equipment.

It aims to:
- Protect professionals from various work related risks.
- Reduce accidents that may result from the use of protective equipment and supplies that do not conform to technical requirements.
- Improve and raise quality and health standards for safety products.

5. Applying the UAE system for controlling elevators and escalators

Elevators and escalators are considered the most important equipment used by the public in every category and age and which are usually available and installed in buildings and public facilities.

It aims to:
- Identify the risks in the use of this equipment as well as controls needed to avoid accidents resulting from their use in addition to verifying compliance with appropriate engineering designs.

6. UAE System for controlling the safety requirements of mechanical (automatic) doors and windows

It aims to:
- Set standards for the power rating of motors used in closing and opening doors in a manner that does not pose a risk to users.
- Reduce the risk of potential accidents that users of these products and fittings may encounter.
- Ensure that the equipment used is appropriate and fit for the specific task as well as subjecting it to comprehensive periodic examination.

7. Implementation of the UAE system for controlling listed hazardous substances in electrical and electronic devices

It aims to:
- Reduce risks in human health and the environment through replacing and restricting hazardous chemicals in electrical and mechanical equipment.
- Improve the waste recycling potential of such equipment with regard to cost and sustainability.
1. National surveillance of the UAE markets

The Authority is harnessing resource and capabilities to strengthen consumer confidence in products in the country and guarantee safe consumption of products, meeting health and safety standards through controlling markets and applying standards and specifications to regulated products.

The Authority cooperates with controlling authorities on the state-level regulators to strengthen the national economy and support the economic and commercial sector as well as to raise the quality of products traded in the country. This is in addition to limiting accidents which may result from products which do not conform to technical standards and regulations.

Which aims to:

- Consolidate a unified national control plan at the state level for the confirmed products by ESMA.
- Ensure the integration effort for controlling the regulated products between all regulatory bodies on UAE.
- Provide a unified mechanism for the various parties to verify the conformity of products.
- Facilitate coordination between federal and local entities in the implementation of legislation.

Results relating to conformity of regulated products in terms of specifications and standards in the national surveillance for the UAE markets:

- Cosmetics: 100%
- Potable water: 50%
- Oil derivatives: 75%
- Paint and varnishes: 100%
- Materials in contact with food products: 100%
- Cigarettes: 100%
- Water fixture: 57%
- Electrical home appliances: 52%
- Energy products: 100%
- Plastic products: 57%
- Detergents: 100%
2. Authority marks and labels that enhance consumer trust in products which used in products conformed with standards and regulations

<table>
<thead>
<tr>
<th>Mark</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td><img src="image1" alt="Mark" /></td>
<td>A mark used on products that have obtained UAE Quality certification</td>
</tr>
<tr>
<td><img src="image2" alt="Mark" /></td>
<td>A mark on regulated biodegradable plastic objects</td>
</tr>
<tr>
<td><img src="image3" alt="Mark" /></td>
<td>A mark on electrical appliances and toys to indicate conformity with GCC standards</td>
</tr>
<tr>
<td><img src="image4" alt="Mark" /></td>
<td>A label identifying vehicle tires tracked electronically</td>
</tr>
<tr>
<td><img src="image5" alt="Mark" /></td>
<td>A label on the paint and varnish products classified according to environmental efficiency</td>
</tr>
<tr>
<td><img src="image6" alt="Mark" /></td>
<td>A label specifying fuel consumption in vehicles</td>
</tr>
<tr>
<td><img src="image7" alt="Mark" /></td>
<td>A mark signifying HALAL certification on products</td>
</tr>
<tr>
<td><img src="image8" alt="Mark" /></td>
<td>A mark identifying products that conform to accredited regulations and systems</td>
</tr>
<tr>
<td><img src="image9" alt="Mark" /></td>
<td>A mark identifying Organic products certificates</td>
</tr>
<tr>
<td><img src="image10" alt="Mark" /></td>
<td>A label identifying electrical appliances categorized by efficient energy consumption</td>
</tr>
<tr>
<td><img src="image11" alt="Mark" /></td>
<td>A label classifying equipment based on water consumption</td>
</tr>
<tr>
<td><img src="image12" alt="Mark" /></td>
<td>A label classifying vehicles tires based on energy efficiency and performance on wet surfaces</td>
</tr>
<tr>
<td><img src="image13" alt="Mark" /></td>
<td>A mark identifying a measurement instruments provide correct readings</td>
</tr>
<tr>
<td><img src="image14" alt="Mark" /></td>
<td>Accredited conformity authorities</td>
</tr>
</tbody>
</table>
INNOVATION AND TECHNOLOGICAL DEVELOPMENTS

In accordance with the national strategy for innovation and in order to achieve the vision of His Highness Sheikh Mohammed bin Rashid for UAE to maintain high rankings in global innovations, the authority started working on several innovative projects in the field of standardization. These include:

1. Industrial measurement system

   It is the first system in the world to regulate all stages of measurement in factories from production up to the final product. The program was introduced for adoption by Member States in the Gulf Standardization Organization.

   The first phase of the system relates to the implementation in bottled drink water and gas cylinders, in addition to future sectors such as paints and detergents, energy and soft drinks.

   **Aims to:**
   - Ensure that measuring instruments are adjusted and that the available resources are appropriately used in a matter that increases efficiency - whether human, material or advanced technology.
   - Reduce waste due to manufacturing measurement errors.
   - Minimize subsequent product control processes for product verification of measurement used (as these products have been subjected to an integrated control process during the manufacturing process).
   - Raise confidence levels in products on the part of both external and internal customers.

2. Launching the electronic national accreditation system ENJAZ using Block Chain

   The national electronic accreditation system depends on the BLOCKCHAIN technique in web design.

   **Aims to:**
   - Become the official platform for customers, beneficiaries, traders and concerned government agencies aiming to identify the list of registered, accredited and nonfied entities.
   - Facilitate trade and economic development in the country.
   - Facilitate access to information and data for decision-makers - and the extraction of data for analytical purposes.
   - Create reports for beneficiaries.
   - Achieve transparency and ensure fast access to information between the Authority and customers/beneficiaries.

3. Electronical integration with Customs

   Abu Dhabi Clearance System has been linked to products within the customs zones of the Emirate of Abu Dhabi through the ECAS certification database so that products will be cleared automatically based on ECAS conformity Certificates issued by the authority.

   **Aims to:**
   - Facilitate product disclosure
   - Restrict access to the country for regulated products without conformity certificates
   - Streamline procedures for customers to save time and effort
   - Speed up customs clearance on products - contributing to raising the competitiveness of UAE as a global commercial center in the region.
   - Reduce the number of the customer service centers and enhance services.

4. UAE System for controlling information and telecommunication cables

   Aims to:
   - Ensure quality and sustainability of networks and efficient technical performance
   - Control cables used in telecommunication networks and local and imported information networks
5. Unified platform for registering drones and related products using Block Chain (#MY_DRONE)

The first platform of its kind in the world to develop a comprehensive system for the registration of drones and unmanned aircraft systems to secure the approval of all UAE regulatory authorities. The platform has been developed in cooperation with the General Authority of Civil Aviation, the Telecommunications Regulatory Authority, Ministry of Interior and the Authority of Federal Customs.

The first phase of the project has been launched and includes the provision of services regulating products and Unmanned Aerial Vehicle (UAV) systems in conjunction with the TRA and the General Authority of Civil Aviation.

**Aims to:**
- Provide a unified mechanism and a central channel for the registration of all entities involved in UAV activities
- Provide an coherent and easy service to the public
- Ensure that products and users of UAVs comply with legislation
- Provide the country’s public and the community at large with safe and reliable products
- Emphasize the leading role the State plays in supporting innovative products and technology

**Features of the platform**
- The system operates continuously (24/7)
- Payments are processed in a single step through the electronic payment gateway E-DIRHAM
- linked to the federal network (FEDNET)
- Relies on Microsoft features to manage customer relationships and easy to update
- Cancellation/transfer of ownership of a UAV

6. Smart browser for checking used and imported vehicles in UAE using Artificial Intelligence

**Aims to:**
- Protect consumers and reduce traffic accidents and financial losses resulting from vehicles that do not meet safety requirements in terms of technical requirements.
- Reduce the environmental impact of imported vehicles that do not meet environmental requirements and standards.

HTTPS://VEHICLEVERIFICATION.ESMA.GOV.AE/HOME/INDEX

7. Automation of the Halal Shipment Certificate

An electronic system that enables Halal certification bodies access to issue certificates for Halal shipment based on accreditation. The system is operational 24 hours a day.

**Aims to:**
- Provide an integrated and easy service for Halal certification bodies, regulators and customs zones.
- Ensure that the shipments imported into the UAE are not manipulated and confirmed to the standards through using unified data and certification form.
8. “Manaa” Federal System

Aims to:
- Control potentially unsafe products throughout state markets
- Consolidate national control efforts, in a way that is easy to use and to implement preventive and corrective measures for products at UAE level
- Ensure the safety and quality of the products during distribution in the country’s markets in line with the goals of sustainable development
- Provide a centralized database to reference withdrawn products
- Facilitate reporting of non-conforming products by customers
- Ensure that no products withdrawn from other emirates markets are traded
- Providing a comprehensive mechanism for manufacturers and businesses to implement the mandatory standards for products being traded in the country markets

9. Strategic model for the regulation of Impact Analysis

REGULATORY IMPACT ANALYSIS (RIA)
A systematic method for analyzing the potential impact of new legislation or for amending issued ones, and for the evaluation of the desired outcome of the legislation.

Aims to:
- Provide a clear methodology for measuring the impact of regulation before and after its issuing.
- Provide a practical model with which to measure the impact of the regulation.
- Provide a mechanism to ensure high accuracy in decision-making
- Implement and evaluate multiple options for drafting and enacting regulation.
- Predictions for the impact the regulation will have on the economy, society, political and legal to implement the regulation

10. Electronic Platform for Halal products

A unified portal for all regulators and zones assist in the process of releasing Halal shipments imported to the country.

11. Application of the UAE system for monitoring electrical equipment intended for use in volatile environments

ESMA will prepare the legislative basis for conformity assessment and issue of certification in accordance with the International IECEx system for electrical equipment, which is recognized by the International Electrotechnical Commission (IEC).

Aims to:
- Enhance levels of safety and protection from explosions and fires in dangerous or volatile areas through developing strict standards and preventative procedures for the use of electrical equipment.
- Strengthen the country’s reputation and competitiveness at the international level as it will be the first country at the Gulf and Arabic level to receive international recognition from the International Electrotechnical Commission for product conformity certification.
SERVICES OF THE AUTHORITY

26,095
Number of calls received:
Percentage of answers to calls within 3 seconds
86.15%

Integration between the public and private sectors.
System for classifying customers happiness centers for the notified body to provide services in ESMA

Its vision is to enhance the role of the private sector as an efficient partner to the public sector, in order to support the journey towards economic development.

The private sector has an outstanding presence and conspicuous impact on specific project of high added value.

Involving the private sector in provision of services through a system based on global best practices.

Achievement of government services criteria as per the requirements of the UAE excellence program of government services.

Implementation of the global star rating system, which is approved by the UAE excellence program of government services, to classify the services of customers happiness centers affiliated to the relevant entities which provide the authority’s services.

Improving the efficiency of government services provided by competent entities at the Authority, and ensuring high quality services to be the leaders in customers’ happiness

Percentage of customers visiting customers happiness centers classified based on services.

- Certificates collection: 7%
- Approval services: 1.5%
- Certificates Attestation Services (Tires): 23.5%
- Sale of Standards: 0.7%
- Customs clearance: 46.5%
- Fees payment: 2.8%
- Inquiries: 18%

Decrease in number of customers visiting happiness center as a result of automated services and initiatives of electronic and smart transformation of services.
SERVICES OF THE AUTHORITY

1. Products subject to technical regulation
   A service whereby the Authority grants a certificate of conformity to products subject to the technical regulations according to the UAE Conformity Assessment Program (ECAS) to confirm its conformity with the technical requirements included in the approved standards.

2. UAE quality Mark of products EQM
   A service whereby the Authority grants the license of using the UAE Quality Mark badge to indicate the product’s conformity with UAE standards (technical regulations) or any standards adopted/approved by the Authority, and the commitment of the establishment in the requirements specified in the EQM regulation.

3. Control of Conformity assessment bodies
   A service whereby the authority grants an official recognition by the National Accreditation System (ENAS) to the Conformity assessment Authority and declare that it has become an accepted party for the conduct of the conformity assessment activity in the field specified in the accreditation certificate.

4. Awareness of standardization activities
   A service that disseminates awareness of the activities and services of the Authority.

5. Selling of Standards
   A service provided by the Authority enables dealers to obtain UAE and Gulf standard.

6. Issuing of energy and water Efficiency programs cards and certificates for green products
   Registration and issuance of energy and water efficiency cards for products to determine energy and water efficiency level for a particular product.

7. Registration of legal measurement instruments
   A service whereby ESMA grants a certificate of type approval and conformity to the measurement instruments as per the UAE Conformity Assessment Program (ECAS) ensuring its conformity to the technical requirements mentioned in the standards.

8. Halal National mark
   A service whereby ESMA grants a license to use the national halal mark logo to indicate that the product confirms to the UAE standards of halal scheme or any standards adopted by ESMA in this field, in addition to the establishment’s compliance with the requirements in the UAE Halal mark regulation.

9. Registration workshops of maintenance, repair, and calibration of legal measurement instruments
   A service whereby ESMA grants a certificate of registration for workshops of maintenance, repair, and calibration of legal measurement instruments ensuring its conformity to the technical requirements mentioned in the standards.

10. Registration of Halal certification Bodies
    A service whereby ESMA grants an official recognition by the National Accreditation System (ENAS) to the registration body of halal certification bodies and declare that it has become an accepted authority for the conduct of registration activity of halal certification parties in the field specified in the registration certificate.

11. Products are not subject to technical regulation
    A service whereby ESMA grants a certificate of conformity to products that are not subject to technical regulations according to the UAE Conformity Assessment Program (ECAS) ensuring its conformity to the technical requirements mentioned in the standards, both nationally and internationally.
THE AUTHORITY’S PLATFORM FOR EXCHANGING KNOWLEDGE

The conference is important in order to:

1. Achieve sustainable development in economic, social and environmental fields according to clear and explicit goals in line with national agenda for UAE Vision 2021 as well as to line up with UN goals for sustainable development.

2. Facilitate dissemination of prominent international experiences.

With attendance of more than 35 international speakers and almost 350 international and regional specialists.

The conference aims to participate in:

- Reducing environmental pollution by raising the efficiency of the transport sector by 20%.

FUTURE MOBILITY CONFERENCE

INTERNATIONAL PLATFORM FOR THE HALAL INDUSTRY

2. Propelling the future of the Halal cosmetics industry towards globalization

- In conjunction with hundreds of local, regional and international exhibitors from more than 60 countries.

It aims to:

- Achieve economic growth and sustainable development
- Prepare and implement an integrated system for the adoption of international specifications in line with the best practices in this area.
- Provide channels of communication between parties involved in the Halal industry

| Government Agencies | Certification Authorities | Accreditation Bodies | Traders | Manufacturers | Service Providers |

3. Shape the Future of the Halal Food and Beverage Industry

- In conjunction of more than 800 authorized manufacturing companies

It includes the following aspects

- Smart Shift to Halal Industry
- Role of accreditation in the Halal system
- Development of Halal specifications and certificates

Participations of:

- Officials
- Decision makers
- Experts in the Halal food and beverages industry
ESMA PLATFORMS FOR AWARENESS AND MARKETING

Exhibit of the World Future Energy Summit

The tremendous achievements and effort-filled strides made in the past compels us continue in the work and the performance of our duty in all industrial arenas and production so as to improve the success that we achieved together.

Sheikh Khalifa bin Zayed Al Nahyan

1

Gulf Food Exhibition

The Exhibit aims to:

- Conduct awareness about National Halal System
- Enhance UAE position as a leading halal for international manufacturers
- Discuss future cooperation methods, the development of Islamic economy and an increased international Halal trade

2

Dubai International Government Achievements Exhibition

The Exhibit aims to:

- Presents the achievements, initiatives, projects and services provided by the authority
- Exchange knowledge and review the best practices and government experiences

3

City Walk Campaign

The campaign aims to:

- Introduce the activities and services of the Authority to the community and aware them of the importance of UAE standards and their implications for the environment.
- Enable citizens and residents to be discriminating in selecting products offered in local markets and to improve the overall quality of these products
- Communicate knowledge among the community regarding quality standards and specifications required for products across all consumer sectors.

5

Beauty World Exhibition

The exhibition plays a vital role in the growth and development of this industry, with strong representation of international brands and products.

The exhibition attracts visitors, buyers, manufacturers, retailers, importers, exporters, distributors, spa and hotel developers, and beauty professionals.

The Exhibit aims to:

- Show the exciting new opportunities for business.
Gitex Exhibition

The exhibition aims to:
- Present the most important and innovative projects and technological initiatives with which to serve the business community.
- To explore innovative technology that will be used and applied to transform institutions into highly productive entities.

The Big 5 Exhibition

The exhibition aims to:
- Explore the ongoing day to day developments in this growing sector and share ideas with innovators in both East and West.
- Improve the quality of products being traded in the country’s markets.

Longer Distance - Less Fuel

The campaign aims to:
- Assist consumers in selecting the most appropriate vehicle and model in a manner that guarantees saving in fuel consumption.
- Reduce negative environmental burdens, in line with the National Agenda 2021 and its sustainable objectives.

Child restraint seat campaign

The campaign aims to:
- Raise awareness of the rules and regulations relating to children’s car seats.

0-13kg 9-18kg 15-25kg

SIAL Exhibition

The exhibition aims to:
- Raise the capabilities of factories and companies to enter new local and regional markets
- Support development plans in the national economy.
- Ensure the provision of the best services, goods and commodities to consumers.

Back to School campaign

The campaign aims to:
- Raise awareness of the regulations and laws relating to school bags, buses and school canteens.

Maintaining leadership and sustaining growth and prosperity requires a transition to an era of a Knowledge Economy - and as fast as possible!

H.H Sheikh Mohammed bin Rashid Al Maktoum
DEVELOPING AND EMPOWERING HUMAN CAPABILITIES

Number of employees

35 Females
29 males

The average number of training hours per employee is 35 hours

The Emiratization rate is 63.9%

Number of training courses and workshops

47

ESMA applies the National charter of Happiness and positivity in the work environment, which aims to:

1. Consolidating the concept of happiness and positivity from the perspective of UAE
2. Defines UAE commitment to society in terms of achieving happiness and positivity and to be a global center and destination for it.

With a positive outlook, you will see challenges as opportunities, the future full of success, and people packed with potential, abilities, talent, and goodness

H. H. Sheikh Mohammed bin Rashid
### ESMA in Numbers

**Standards and Technical Regulations**

<table>
<thead>
<tr>
<th>Sector</th>
<th>Standards</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical and vehicles</td>
<td>5,995</td>
<td>26.3%</td>
</tr>
<tr>
<td>Electrical and electronics</td>
<td>4,916</td>
<td>21.6%</td>
</tr>
<tr>
<td>Chemical and plastic</td>
<td>3,783</td>
<td>16.6%</td>
</tr>
<tr>
<td>Information technology</td>
<td>1,742</td>
<td>7.6%</td>
</tr>
<tr>
<td>Construction and building</td>
<td>1,497</td>
<td>6.6%</td>
</tr>
<tr>
<td>Metrology</td>
<td>1,164</td>
<td>5.1%</td>
</tr>
<tr>
<td>Oil and gas</td>
<td>956</td>
<td>4.2%</td>
</tr>
<tr>
<td>Food and agriculture</td>
<td>829</td>
<td>3.6%</td>
</tr>
<tr>
<td>Medical Devices</td>
<td>969</td>
<td>4.3%</td>
</tr>
<tr>
<td>Electric power generation and transmission equipment</td>
<td>345</td>
<td>1.5%</td>
</tr>
<tr>
<td>Cosmetics</td>
<td>78</td>
<td>0.3%</td>
</tr>
</tbody>
</table>

### Technical and Control Regulations

<table>
<thead>
<tr>
<th>Sector</th>
<th>Standards</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical and vehicles</td>
<td>55</td>
<td>1.4%</td>
</tr>
<tr>
<td>Food and agriculture</td>
<td>116</td>
<td>4.2%</td>
</tr>
<tr>
<td>Electrical and electronics</td>
<td>12</td>
<td>0.3%</td>
</tr>
<tr>
<td>Metrology</td>
<td>5</td>
<td>0.2%</td>
</tr>
<tr>
<td>Oil and gas</td>
<td>2</td>
<td>0.1%</td>
</tr>
<tr>
<td>Administrative</td>
<td>3</td>
<td>0.1%</td>
</tr>
<tr>
<td>Other</td>
<td>2</td>
<td>0.1%</td>
</tr>
</tbody>
</table>

**Total**: 2014 - 218, 2015 - 224, 2016 - 227, 2017 - 228

Standards numbers are distributed according to sectors.
## ESMA IN NUMBERS
### NATIONAL ACCREDITATION

#### REGISTERED CONFORMITY ASSESSMENT BODIES

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>System Certification Bodies</th>
<th>Product Certification Bodies</th>
<th>Testing Labs</th>
<th>Calibration Labs</th>
<th>Inspection Bodies</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>258</td>
<td>3</td>
<td>8</td>
<td>207</td>
<td>10</td>
<td>30</td>
</tr>
<tr>
<td>2016</td>
<td>186</td>
<td>-</td>
<td>3</td>
<td>169</td>
<td>3</td>
<td>11</td>
</tr>
<tr>
<td>2015</td>
<td>143</td>
<td>-</td>
<td>-</td>
<td>141</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

With an increase at a rate of 38% since 2016

### Accredited Conformity Assessment Bodies

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Testing Labs</th>
<th>Inspection Bodies</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>182</td>
<td>97</td>
<td>57</td>
</tr>
<tr>
<td>2016</td>
<td>124</td>
<td>65</td>
<td>40</td>
</tr>
<tr>
<td>2015</td>
<td>111</td>
<td>61</td>
<td>38</td>
</tr>
</tbody>
</table>

With a total of 34 bodies in 2017

#### Number of accredited and registered certification bodies in the field of HALAL certificates for food products, cosmetic and slaughterhouses

- **Gulf accreditation center (GAC)**: 22 bodies in 2017
- **Dubai Center for Accreditation of Conformity (ElAC)**: 11 bodies in 2017
- **American Labs Accreditation Association (AZLZ)**: 1 body in 2017

Total: 34 bodies

With an increase of 84% since 2016
## ESMA in Numbers

### Products Conformity and Issuing Certificates

#### Number of issued Halal logos:
- **50**
  - 5 stars: 5
  - 4 stars: 42
  - 3 stars: 3

#### Number of products registered in the UAE system for controlling Halal products:
- **7,487**
  - 2015: 1,617
  - 2016: 3,264

#### Conformity certificates issued by the authority:
- **48% increase since 2016**

<table>
<thead>
<tr>
<th>Product Type</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical products</td>
<td>4,195</td>
<td>5,927</td>
<td>4,874</td>
<td>6,768</td>
</tr>
<tr>
<td>Consuming products</td>
<td>728</td>
<td>2,206</td>
<td>2,503</td>
<td>7,548</td>
</tr>
<tr>
<td>Total</td>
<td>4,923</td>
<td>8,133</td>
<td>7,377</td>
<td>14,316</td>
</tr>
</tbody>
</table>

#### Number of Labels issued by ESMA on products, according to the star rating system:
- **178,231** (5 stars)
- **344,599** (4 stars)

#### The increase since 2016:
- **11.6%**

#### Number of international factories which its products have UAE conformity certificates and marks:
- **844**
- **521**
- **323**

#### National factories which its products have UAE conformity certificates and marks:
- **6,768**
- **7,548**

---

There has been a 63% decrease in the effort expended by the authority from 2016 on, through enabling the assigned entities within the authority to issue conformity certificates. The rate of effort expended by such entities in turn revealed an increased of 78% since 2016.

Increase in the three, four and five star rating labels at a rate of **59%** for the same period.

There has been a decrease in the number of labels with one- to two-star ratings at a rate of **12%** since 2016.
### Conformity Certificates for Electrical Products

**Total in 2017**: 6,768

<table>
<thead>
<tr>
<th>Category</th>
<th>2017</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Care Appliances</td>
<td>9.6%</td>
<td>9.2%</td>
</tr>
<tr>
<td>Electromechanical kitchen Appliances</td>
<td>9.2%</td>
<td>9.0%</td>
</tr>
<tr>
<td>Unregulated electrical products (optional)</td>
<td>7.8%</td>
<td>7.5%</td>
</tr>
<tr>
<td>Heating Liquid Appliances</td>
<td>8.8%</td>
<td>8.6%</td>
</tr>
<tr>
<td>Refrigerators &amp; Freezers</td>
<td>6.8%</td>
<td>6.6%</td>
</tr>
<tr>
<td>Room Air Conditioners</td>
<td>6.8%</td>
<td>6.6%</td>
</tr>
<tr>
<td>Fans and humidifiers</td>
<td>6.6%</td>
<td>6.6%</td>
</tr>
<tr>
<td>Cooking Appliances</td>
<td>6.5%</td>
<td>6.5%</td>
</tr>
<tr>
<td>Power Tools</td>
<td>5.0%</td>
<td>5.0%</td>
</tr>
<tr>
<td>Washing and Dryers machines</td>
<td>4.8%</td>
<td>4.8%</td>
</tr>
<tr>
<td>Electric Irons</td>
<td>4.8%</td>
<td>4.8%</td>
</tr>
<tr>
<td>Television panels</td>
<td>4.6%</td>
<td>4.6%</td>
</tr>
<tr>
<td>Currency equipment</td>
<td>3.3%</td>
<td>3.3%</td>
</tr>
<tr>
<td>Electrical cables</td>
<td>3.3%</td>
<td>3.3%</td>
</tr>
<tr>
<td>Water dispensers</td>
<td>3.3%</td>
<td>3.3%</td>
</tr>
<tr>
<td>Dishwashers</td>
<td>3.3%</td>
<td>3.3%</td>
</tr>
<tr>
<td>Multiple electrical connectors</td>
<td>3.3%</td>
<td>3.3%</td>
</tr>
<tr>
<td>Marine Boat Engines</td>
<td>3.3%</td>
<td>3.3%</td>
</tr>
<tr>
<td>Laser Products</td>
<td>3.3%</td>
<td>3.3%</td>
</tr>
<tr>
<td>Microwave</td>
<td>2.1%</td>
<td>2.1%</td>
</tr>
<tr>
<td>Plugs and switches</td>
<td>2.1%</td>
<td>2.1%</td>
</tr>
<tr>
<td>Lighting products</td>
<td>2.8%</td>
<td>2.8%</td>
</tr>
<tr>
<td>Vacuum cleaners</td>
<td>3.5%</td>
<td>3.5%</td>
</tr>
<tr>
<td>Gas cooking equipment</td>
<td>4.3%</td>
<td>4.3%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>3,434,471</td>
<td>3,730,046</td>
</tr>
</tbody>
</table>

### Number of tires registered in UAE tire control system

- **2017**: 3,434,471
- **2016**: 3,730,046

Science and history walk side by side. Using science, man can record his history and preserve it for generations to come, so others may learn from it and come to know what their ancestors achieved.

H.H Sheikh Zayed bin Sultan Al Nahyan, may Allah have mercy on his soul.

Number of conformity Gulf certificates for Electrical products
The application of technical regulations issued is outlined in the number of Certificates of Conformity issued for products conforming to technical regulations in the following sectors:

- **Cosmetics sector**: 2,161 certificates, 11% increase since 2016
- **Mechanical and vehicles sector**: 2,568 certificates, 13% increase since 2016
- **Food And Agriculture sector**: 267 certificates, 1% increase since 2016
- **Chemical and plastics sector**: 2,502 certificates, 13% increase since 2016
- **Construction and building Sector**: 7 certificates, 0.05% increase since 2016
- **Oil & Gas Sector**: 42 certificates, 0.29% increase since 2016

**Total**: 14,316 certificates, 44% increase since 2016

### Conformity Certificates for Consuming Products

<table>
<thead>
<tr>
<th>Product Category</th>
<th>2017</th>
<th>2016</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modified Vehicles</td>
<td>2,568</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cosmetics</td>
<td>2,161</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perfume</td>
<td>792</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other products</td>
<td>474</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food contact materials</td>
<td>401</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cigarettes (products)</td>
<td>224</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cigarette (Labeling)</td>
<td>162</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastic products</td>
<td>148</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drinking water</td>
<td>96</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tobacco (product)</td>
<td>71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dawkwah (Labeling)</td>
<td>69</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Retreaded tires</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diesel</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dawkwah (Product)</td>
<td>47</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Halal products</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paints and varnish</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detergents</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubricating oil</td>
<td>53</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organic products</td>
<td>55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy Drinks</td>
<td>67</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>7,548</td>
<td>2,503</td>
<td>2,206</td>
</tr>
</tbody>
</table>

Conformity certificates for trailers and semi trailers:

- **2017**: 13,862 certificates
- **2016**: 7,754 certificates
- **Increase since 2016**: 11%
## ESMA in Numbers

### Metrology

#### Confirmed Commercial Scales

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Confirmed</th>
<th>Confirmed %</th>
<th>Non-confirmed</th>
<th>Non-confirmed %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>6,211</td>
<td>4,835</td>
<td>94.6%</td>
<td>1,376</td>
<td>22.1%</td>
</tr>
<tr>
<td>2015</td>
<td>6,211</td>
<td>5,873</td>
<td>92.7%</td>
<td>338</td>
<td>5.5%</td>
</tr>
<tr>
<td>2016</td>
<td>6,085</td>
<td>5,645</td>
<td>93%</td>
<td>440</td>
<td>7.3%</td>
</tr>
</tbody>
</table>

#### Confirmed Jewelry Scales

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Confirmed</th>
<th>Confirmed %</th>
<th>Non-confirmed</th>
<th>Non-confirmed %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>366</td>
<td>322</td>
<td>90%</td>
<td>44</td>
<td>12%</td>
</tr>
<tr>
<td>2015</td>
<td>783</td>
<td>636</td>
<td>81.2%</td>
<td>147</td>
<td>18%</td>
</tr>
<tr>
<td>2016</td>
<td>2,206</td>
<td>2,117</td>
<td>96%</td>
<td>89</td>
<td>4%</td>
</tr>
<tr>
<td>2017</td>
<td>3,136</td>
<td>2,811</td>
<td>90%</td>
<td>325</td>
<td>10%</td>
</tr>
</tbody>
</table>

#### Confirmed Truck Scales

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Confirmed</th>
<th>Confirmed %</th>
<th>Non-confirmed</th>
<th>Non-confirmed %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>36</td>
<td>23</td>
<td>63.9%</td>
<td>13</td>
<td>36.1%</td>
</tr>
<tr>
<td>2015</td>
<td>99</td>
<td>69</td>
<td>69.9%</td>
<td>30</td>
<td>30.1%</td>
</tr>
<tr>
<td>2016</td>
<td>88</td>
<td>69</td>
<td>77.3%</td>
<td>19</td>
<td>22.7%</td>
</tr>
</tbody>
</table>

#### Confirmed and Non-Confirmed Taxi Meters

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Confirmed</th>
<th>Confirmed %</th>
<th>Non-confirmed</th>
<th>Non-confirmed %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>1,896</td>
<td>1,675</td>
<td>88%</td>
<td>221</td>
<td>12%</td>
</tr>
<tr>
<td>2015</td>
<td>1,896</td>
<td>1,675</td>
<td>88%</td>
<td>221</td>
<td>12%</td>
</tr>
<tr>
<td>2016</td>
<td>1,896</td>
<td>1,675</td>
<td>88%</td>
<td>221</td>
<td>12%</td>
</tr>
<tr>
<td>2017</td>
<td>1,896</td>
<td>1,675</td>
<td>88%</td>
<td>221</td>
<td>12%</td>
</tr>
</tbody>
</table>

#### Confirmed and Non-Confirmed Fuel Meters

<table>
<thead>
<tr>
<th>Total</th>
<th>Confirmed</th>
<th>Confirmed %</th>
<th>Non-confirmed</th>
<th>Non-confirmed %</th>
</tr>
</thead>
<tbody>
<tr>
<td>7,738</td>
<td>7,641</td>
<td>99%</td>
<td>97</td>
<td></td>
</tr>
</tbody>
</table>

#### Confirmed and Non-Confirmed Medical Measuring and Laboratory Instruments

<table>
<thead>
<tr>
<th>Total</th>
<th>Confirmed</th>
<th>Confirmed %</th>
<th>Non-confirmed</th>
<th>Non-confirmed %</th>
</tr>
</thead>
<tbody>
<tr>
<td>230</td>
<td>210</td>
<td>91%</td>
<td>9%</td>
<td></td>
</tr>
</tbody>
</table>

#### Confirmed and Non-Confirmed Fuel Meters

<table>
<thead>
<tr>
<th>Total</th>
<th>Confirmed</th>
<th>Confirmed %</th>
<th>Non-confirmed</th>
<th>Non-confirmed %</th>
</tr>
</thead>
<tbody>
<tr>
<td>13,057</td>
<td>11,078</td>
<td>91%</td>
<td>1,978</td>
<td>15%</td>
</tr>
</tbody>
</table>

#### Confirmed and Non-Confirmed Medical Measuring and Laboratory Instruments

<table>
<thead>
<tr>
<th>Total</th>
<th>Confirmed</th>
<th>Confirmed %</th>
<th>Non-confirmed</th>
<th>Non-confirmed %</th>
</tr>
</thead>
<tbody>
<tr>
<td>13,057</td>
<td>11,078</td>
<td>91%</td>
<td>1,978</td>
<td>15%</td>
</tr>
</tbody>
</table>

### Total Samples

- **Confirmed:** 13,057
- **Non-Confirmed:** 0

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*Note: The above data represents a summary of confirmed and non-confirmed samples across various categories managed by ESMA.*