



الإمارات العربية المتحدة  
وزارة الاقتصاد

# INVESTING IN THE MANUFACTURING SECTOR IN UAE



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❖ Growth Outlook for Manufacturing in UAE

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# THE MANUFACTURING SECTOR CONSISTS OF A WIDE RANGE OF SEGMENTS

<b>Machinery &amp; Equipment</b>	<b>Chemicals, rubber &amp; plastics</b>	<b>F&amp;B and Agritech</b>
Machinery and equipment manufacturing creates machinery and equipment used by a manufacturer. This includes any mechanical, electrical, or electronic device designed and used to perform some function and to produce a certain effect or result. Equipment is any tangible personal property used in an operation or activity.	Chemical manufacturing creates products by transforming organic and inorganic raw materials with chemical processes. Rubber and plastics manufacturing includes the processes that involve the production of rubber, or latex, and plastics.	The food and drink manufacturing industry comprises of sectors such as slaughterhouses, meat, poultry and fish processing, grain mills, fruit and vegetable processing, oils and fats, margarine and edible oils, and pasta.
<b>Pharma</b>	<b>Hydrogen</b>	<b>Electrical Equipment</b>
Pharmaceutical manufacturing is the process of industrial-scale synthesis of pharmaceutical drugs. The process of drug manufacturing can be broken down into a series of unit operations, such as milling, granulation, coating, tablet pressing, and others.	This sector involves the manufacturing of Hydrogen through complex methods such as Natural Gas Reforming/Gasification, Electrolysis, etc.	Electrical Equipment Manufacturing establishments make goods, such as electric motors, generators, transformers, and switchgear apparatus.

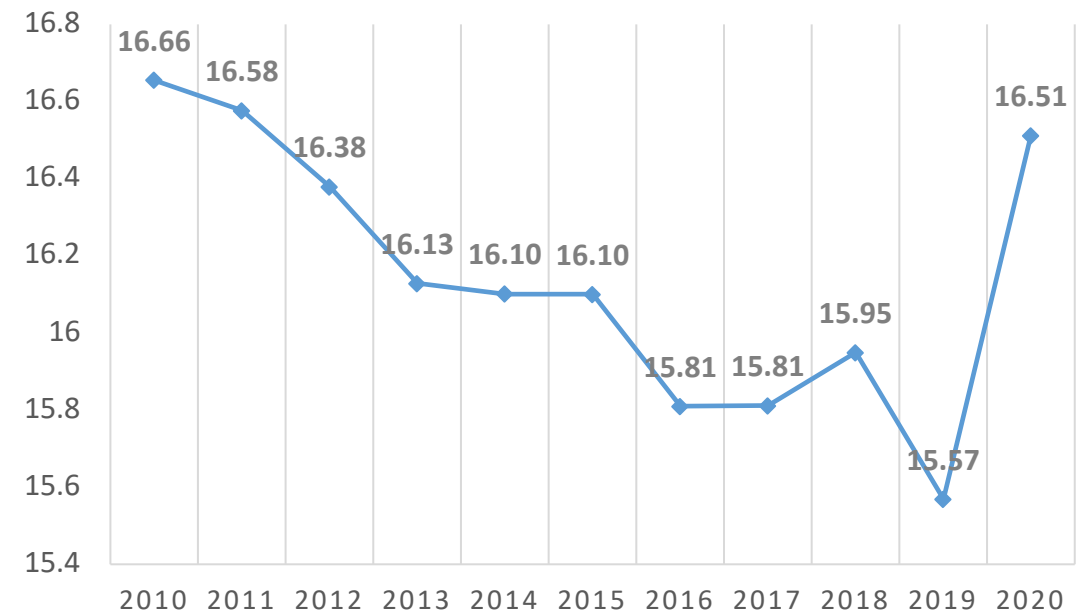
# THE MANUFACTURING SECTOR CONSISTS OF A WIDE RANGE OF SEGMENTS

<b>Advanced Tech</b>	<b>Metals</b>
Advanced manufacturing is the use of innovative technology to improve products or processes, with the relevant technology being described as "advanced," or "cutting edge." Advanced manufacturing industries "increasingly integrate new innovative technologies in both products and processes.	Metal manufacturing refers to all of the processes involved in the conversion of a raw material, such as a metallic ore, to a final form in which the metal can be used for some commercial or industrial purpose. Such is the case with gold, silver, platinum, and other so-called noble metals.
<b>Space Tech</b>	<b>Medtech</b>
Space manufacturing involves the production of manufactured goods in an environment outside a planetary atmosphere. Typically, it includes conditions of microgravity and hard vacuum.	Medical manufacturing underpins the production of medical devices and the processes involved in the manufacturing of such devices.

# GLOBAL MANUFACTURING INDUSTRY OVERVIEW

- Manufacturing output has risen nearly 80% over the last ten years to reach over USD 39.6 trillion in 2019.
- The global General Manufacturing market declined from USD 846.1 billion in 2019 to USD 649.8 billion in 2020 mainly due to economic slowdown across countries owing to the COVID-19 outbreak and the measures to contain it.
- Amid the COVID-19 crisis, the global market for General Manufacturing estimated at USD 649.8 Billion in the year 2020,
- The General Manufacturing Market is projected to reach a revised size of USD 732.2 Billion by 2027, growing at a CAGR of 1.7% over the period 2020-2027.
- By 2025, all manufacturing sectors will be expected to have recovered to 2019 levels, and some segments, such as the metallurgy machinery market, will reach the 2019 mark this year.
- The manufacturing machinery segments are predicted to achieve a CAGR of 3 to 4% between 2021 and 2025, of which the mining and farming machinery markets are predicted achieve the highest growth of 5.3% and 5.1% respectively.
- From a growth perspective, the fastest growing sectors are those aligned with the most basic of human needs: food and beverage, aggregates (shelter) and textiles (clothing).

## MANUFACTURING INDUSTRY, VALUE ADDED (% OF GDP)

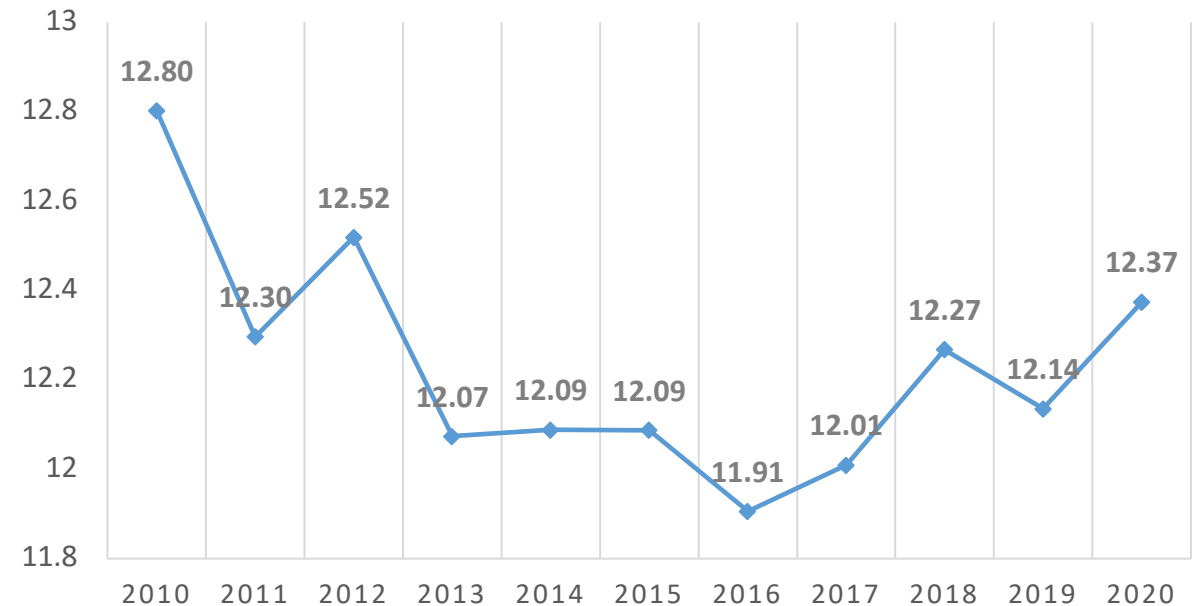


Source: Business Wire, Deloitte, Smart Industry, Interact Analysis, World Bank

# MANUFACTURING INDUSTRY IN THE MENA REGION OVERVIEW

- According to the World Bank, manufacturing added 14% to GDP across the Middle East and North Africa in 2018, up from 12.6% in 2016.
- Today, in line with various 2030 economic visions and the disruption of technologies, governments across the region are seeking to further promote manufacturing as part of their diversification strategies.
- The region has several fundamental advantages for manufacturers, mainly it is a natural trade hub, a maritime crossroads between Europe, Asia, and Africa.
- The GCC has a USD 1.5 trillion manufacturing market.
- The Middle East has a young, underemployed citizen labour force; the Gulf states a significant number of young people are well educated, highly skilled and tech-savvy.
- A PwC report estimates that AI could contribute USD 320bn to the Middle East's GDP by 2030, with the most significant gains in absolute terms expected in the construction and manufacturing sector.

## MANUFACTURING INDUSTRY, VALUE ADDED (% OF GDP) - MIDDLE EAST & NORTH AFRICA



Source: Aerospace-Technology, World Bank

# MANUFACTURING INDUSTRY FUTURE TRENDS

## Increased investment in data-driven business tools

- Digital transformation will continue to be a priority in 2022, with manufacturers adopting a more cost-conscious mindset and constantly seeking to do more with less.
- Tools and technology that enable agility will be critical.
- Many companies are shifting towards spending on digital solutions that support increased agility and better risk management, making them more resilient in the wake of tough times.

## Adoption of mobile solutions

- More than 96% of younger workers already have smartphones, so mobile Connected Worker applications are a seamless way to engage this generation.
- The right digital tools lead to increased engagement, and the ability to capture critical data and best practices from the most knowledgeable workers.

## Concerted efforts to address the generational skills gap

- The manufacturing industry is facing a critical skills gap in the wake of the pandemic.
- By 2030, the skills gap could lead to 2.1 million unfilled manufacturing jobs and a USD 1 trillion negative impact on the economy.
- One of the biggest challenges for manufacturers today is attracting and retaining new talent, especially among Millennials and Gen-Z.
- Organisations that implement applications that enable worker productivity and engage workers in safety and quality will emerge as leading employers and retain and recruit the best talent

## Ecosystem Partnerships

- Global organizations can utilize ecosystem partnerships as an opportunity to grow not only in mature markets, but in developing markets as well.
- In manufacturing, ecosystem partnerships can enable all types of initiatives, such as earth-friendly packaging, enablement of underdeveloped/underserved communities and emission reduction through remote work capability.
- According to Gartner, by 2024, 75% of the top 20 global consumer goods companies will engage in an ecosystem partnership contributing to growth and sustainability goals.

Source: Manufacturing Global, Gartner



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# GROWTH OUTLOOK FOR MANUFACTURING INVESTMENTS IN UAE

**9.68%**  
Value added (% of GDP) in UAE (2020)

**AED 220 billion (US\$ 65.34 billion)**  
Exports (2019)

**AED 300 billion (USD 81.64 billion)**  
Expected Industrial Value-Added  
(2031)

**Manufacturing related R&D  
Expenditure in 2021 : USD 5.71  
billion(1.3% of GDP)**

**33,000**  
SMEs Established (2021)

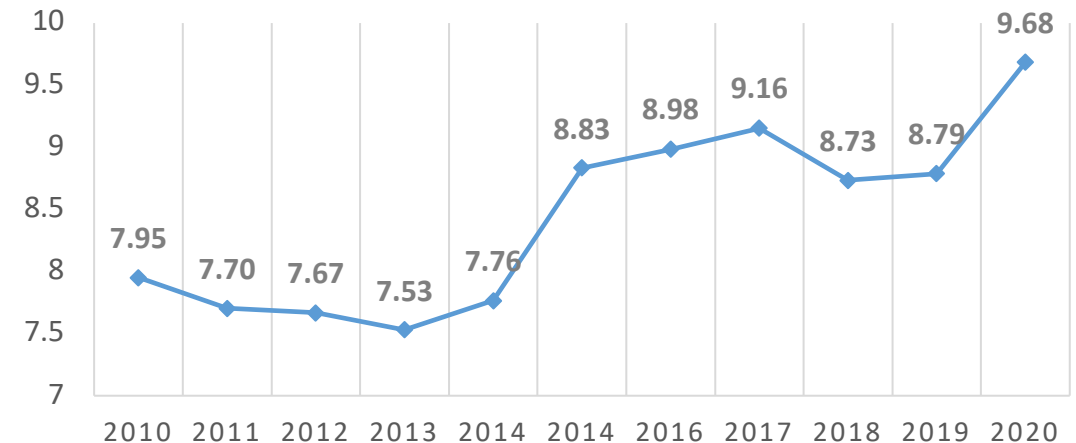
**AED 50 Billion (USD 13.61)**  
Expected Output of high-tech  
companies (2031)

# MANUFACTURING INDUSTRY GROWTH ENVIRONMENT IN UAE

**Overall, UAE's manufacturing sector has been growing moderately and is heavy on low tech-intensity sectors**

- The value added to GDP in 2020 for the manufacturing industry was USD 34.75 billion.
- UAE ranked 35th in the Competitive Industrial Performance Index in 2018, 30th in 2021, and is expected to rank 25th in 2031.
- In 2018, the productivity of the industry was AED 180,000 (USD 49,000) per FTE. By 2031, it is expected to increase 1.2x to AED 215,000 (USD 58,535) per FTE.
- UAE's manufacturing sector has been growing moderately and is heavy on low tech-intensity sectors which has experienced a growth of 3% CAGR between 2013 and 2018.
- At the same time, medium and high-tech industries have experienced a growth of 6.2% and 6% CAGR respectively.
- In 2018, manufacturing reportedly contributed to 25% of Sharjah's GDP.
- Total of AED 3.9bn (USD 1.06bn) investment made in new industrial facilities in 2020 as sector contributes over 10% to non-oil GDP of Abu Dhabi.
- 2020 saw 35 facilities launching in Abu Dhabi, 11 in Al Ain, and five in Al Dhafra.
- In 2021, the manufacturing industry contributed 8.9% to Dubai's GDP.

**MANUFACTURING INDUSTRY , VALUE ADDED (% OF GDP) - UNITED ARAB EMIRATES**



Source: Ministry of Industry and Advanced Technology, Arabian Business, World Bank, U.S-UAE Business Council

# IMPORTANCE OF THE MACHINERY & EQUIPMENT MANUFACTURING MARKET IN UAE

- Today, UAE's machinery and equipment sector contributes ~10% of the national MVA in 2018.
- The machinery and equipment sector accounted for 7% of total UAE production in 2018.
- In 2018, total production for this sector was valued at AED 31 billion (USD 8.45 billion).
- In 2019, net imports amounted to AED 37 billion (USD 10.07 billion) and net exports amounted to AED 7 billion (USD 1.91 billion).
- UAE Construction Equipment Market size is projected to grow at a CAGR of 7.3% during 2021-2027.
- The demand for cost-effective machines with lower emissions is dominating the construction equipment market persuading manufacturers to opt for electric and hydraulic machines.
- As of 2015, according to Global Cement Magazine, the country had 12 integrated cement plants, 8 cement grinding plants, and 17 cement producing companies. Together, the integrated cement plants alone had a capacity of 29 million metric tons per year.
- UAE shows strength in the cement, ceramics, glass, and gypsum manufacturing markets.



# IMPORTANCE OF THE CHEMICALS MARKET IN UAE

- In 2016, UAE had 13.7 million tons of petrochemical capacity, according to a report by the Gulf Petrochemical and Chemical Association.
- UAE's chemicals sector contributed 20% to local MVA in 2018.
- In the same year, production was valued at AED 52 billion (USD 14.16 billion).
- The chemicals sector saw 52% of retained MVA from production.
- In 2018, UAE exports of chemical and petrochemical products reached its highest level of AED27 billion (USD 7.35 billion), a 29% growth with respect to the previous year
- According to Federal Competitiveness and Statistics Authority (FCSA), in 2018 polymers of ethylene (HS3901) had the largest share of 31%, AED 8.2 billion (USD 2.23 billion) in global UAE exports of chemical and petrochemical products.
- Gulf Petrochemical and Chemical Association reports that total petrochemical capacity of UAE was 13.7 million tons per annum (tpa) in 2016, and the country plans to increase this capacity to 14.4 million tpa by 2025.

Top 10 Exported Chemical and Petrochemical Products of UAE to the world, Export Value (AED bn) and % share, 2018

Product names	Value AED bn	Share
3901 - Polymers of ethylene	8.2	31%
3902 - Polymers of propylene	2.5	9%
3303 - Perfumes and toilet waters	1.2	4%
3920 - Plastic plate, sheet, film not cellular	1.1	4%
3305 - Hair preparations	0.9	3%
3208 - Polymer based paints	0.9	3%
3923 - Plastic containers, bobbins and packages	0.8	3%
3401 - Soaps	0.8	3%
3304 - Beauty, make-up and skin care preparations	0.7	3%
3307 - Shaving and toilet preparations n.e.s.	0.6	2%
Others	9.0	34%
<b>Total</b>	<b>27.7</b>	<b>100%</b>

Source: Ministry of Industry and Advanced Technology, U.S-UAE Business Council

# IMPORTANCE OF THE RUBBER & PLASTICS MANUFACTURING MARKET IN UAE

- As of 2018, UAE. is the second-largest producer of plastic products in the GCC after Saudi Arabia.
- In 2018, total production in this sector was AED 14 billion (USD 3.81 billion).
- The sector saw 32% of retained MVA from production.
- Polymers of ethylene in primary forms (HS 3901) was the 6th largest exported product group in UAE exports to the world in 2018.
- Net imports totalled AED 8 billion (USD 2.18 billion) while net exports totalled AED 4 billion (USD 1.1 billion) in 2019.
- UAE has over 260 plastic manufacturing plants, 100 of which are in Dubai.
- Notable plastic manufacturers include Fujairah Plastic Factories, which is a leading producer of plastic sheets and bags; RMD Board, which makes composite polypropylene boards; and Sabin Plastic Industries, which supplies acrylics and polycarbonates.
- The Plastic Packaging Market is expected to grow at a CAGR of 5.0% between 2022 and 2027.

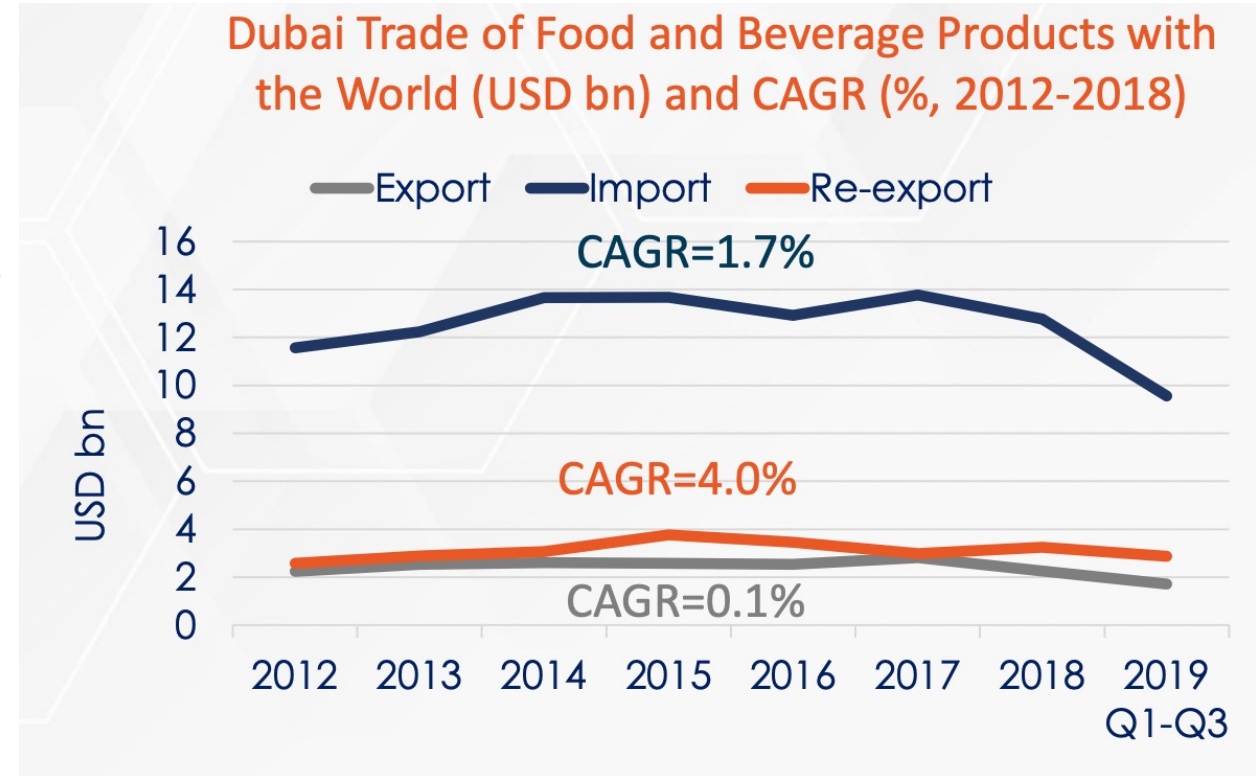
UAE Exports of Polymers of Ethylene (HS 3901) to the World (2012-2018) and Top 5 Export Partners (% share, 2018)



Source: Ministry of Industry and Advanced Technology,  
Dubai Chamber, U.S-UAE Business Council, Mordor  
Intelligence

# IMPORTANCE OF THE F&B AND AGRITECH MANUFACTURING MARKET IN UAE

- UAE hosts a large and growing number of food and beverage product manufacturers, particularly in Dubai.
- UAE's F&B sector contributed ~8% of the national 2018 MVA.
- In the same year, the market accounted for AED 10.4 billion (USD 2.83 billion) of the larger AED 133 billion (USD 36.2 billion) manufacturing market.
- In 2018, production within this sector was at AED 35 billion (USD 9.53 billion).
- Net imports stood at AED 35 billion (USD 9.53 billion) while net exports stood at AED 14 billion (USD 3.81 billion) in 2019.
- UAE accounts for a large number of food and beverage manufacturing units, totalling around 575 units with a total investment of AED 39.5 billion (USD 10.75 billion) in 2021.
- In recent years, UAE has shifted focus towards local food security strategies and doubled down on corresponding initiatives.



Source: Ministry of Industry and Advanced Technology, Dubai Chamber, BusinessWire, U.S-UAE Business Council

# IMPORTANCE OF THE METALS MANUFACTURING MARKET IN UAE

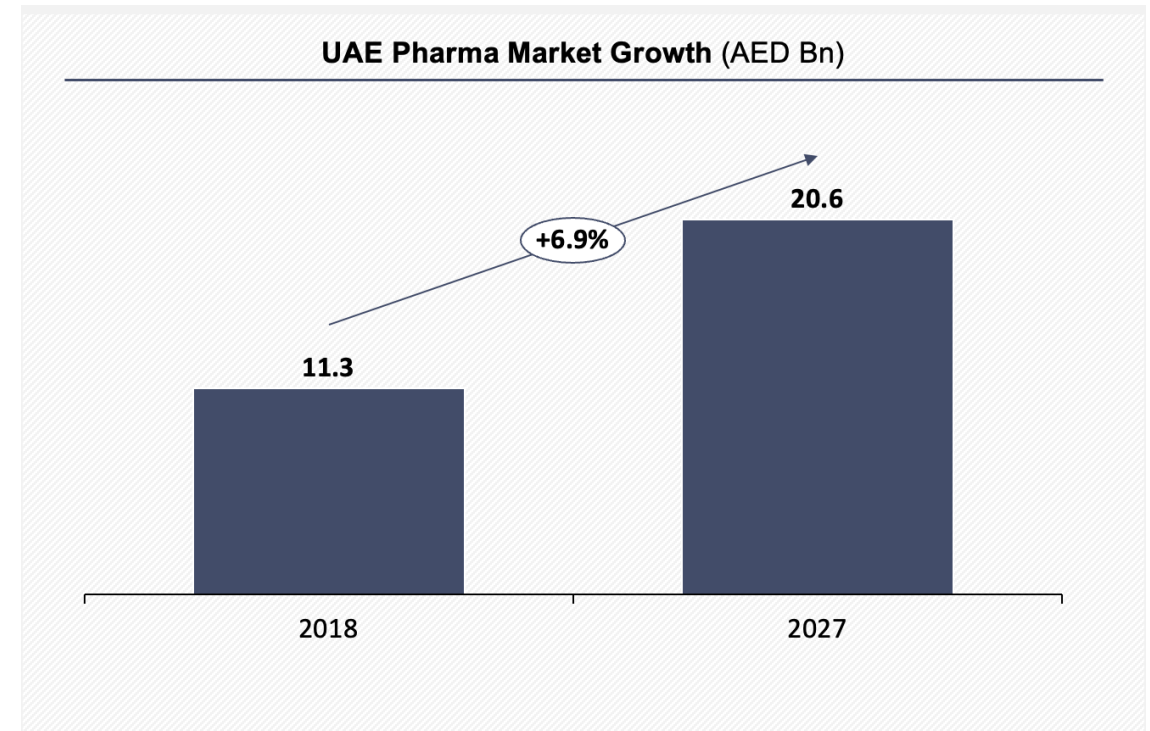
- UAE's metals sector contributes 24% of the national MVA in 2018.
- The metals manufacturing market accounted for AED 32 billion (USD 8.71 billion) of the larger AED 133 billion (USD 36.2 billion) manufacturing market.
- In 2019, net imports within this sector were at AED 46 billion (USD 12.5 billion) while net exports were at AED 49 billion (USD 13.34 billion).
- UAE Metal Fabrication Equipment Market is likely to grow at a CAGR of around 3.80% during 2021-2026.
- UAE is a major player in the global aluminium industry through the Emirates Global Aluminium (EGA).
- EGA's two smelters make UAE the fifth-largest aluminium-producing country in the world.
- In March 2015, Senaat and two leading Japanese steel companies established Al Gharbia Pipe Company to build a USD 300 million plant that is UAE's first large-diameter, sour service capable, welded steel pipe project, with a production capacity of 240,000 tons per annum.





# IMPORTANCE OF THE PHARMA MANUFACTURING MARKET IN UAE

- In UAE, pharma constituted only 1% of the manufacturing value-add in 2018 as most of the local demand is imported.
- Production in 2018 amounted to AED 8 billion (USD 2.18 billion).
- In the same year, the percentage of retained MVA from production stood at 43%.
- The pharma manufacturing sector is expected to experience a CAGR of 6.9% between 2018 and 2027 with the market size increasing from AED 11.3 billion (USD 3.08 billion) to AED 20.6 billion (USD 5.61 billion).
- Net imports in this sector in 2019 was valued at AED 11.2 billion (USD 3.05 billion) and net exports was valued at AED 0.7 billion (USD 190 million).
- UAE has plans to double the number of pharmaceutical factories from the 17 at present to 34 by 2021.
- FitchSolutions predicts the generic drug sector to increase at a faster CAGR of 6.8% between 2020-2025, compared with that of the patented drugs (6.0%), reaching AED3.4bn (USD 931mn) by 2025.
- Covid-19 enabled UAE to develop capabilities around vaccine clinical trials and distribution. This enabled UAE to partake in world's first Phase III clinical trial of a COVID-19 inactivated vaccine.

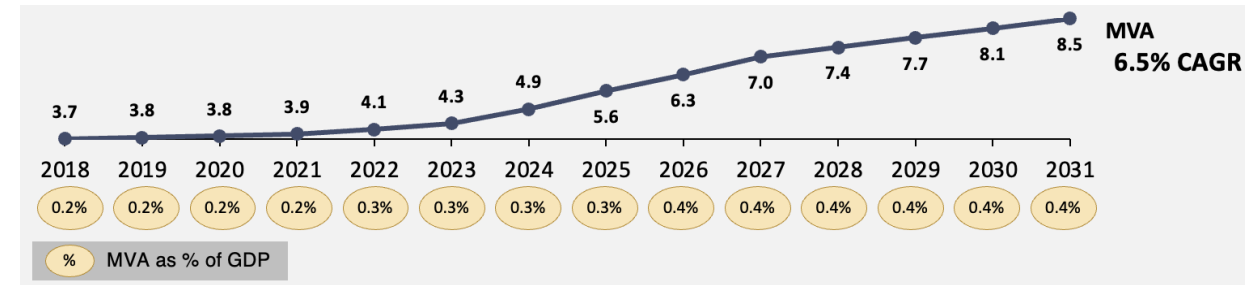


Source: Ministry of Industry and Advanced Technology, Dubai Chamber, U.S-UAE Business Council, FitchSolutions



# IMPORTANCE OF THE ELECTRICAL EQUIPMENT MANUFACTURING MARKET IN UAE

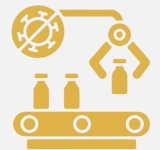
- UAE's Electrical Equipment sector contributed 3% of the national MVA in 2018.
- Production from this sector was valued at AED 12 billion (USD 4.14 billion) in 2018.
- In 2031, production is expected to reach AED 27 billion (USD 7.35 billion).
- In 2019, the net imports stood at AED 17 billion (USD 4.63 billion) and net exports stood at AED 5 billion (USD 1.36 billion).
- P&S Intelligence expects the UAE's mechanical, electrical, and plumbing services market to grow from USD 3.03 billion in 2020 to USD 12.95 billion in 2030, at a 15.7% CAGR between 2021 and 2030.
- The sector's contribution towards UAE's GDP is expected to increase to AED ~8.5 billion (USD ~2.31 billion) by 2031.



Source: Ministry of Industry and Advanced Technology, FitchSolutions, P&S Intelligence

# IMPORTANCE OF THE MEDTECH MANUFACTURING MARKET IN UAE

- UAE Medical Devices Market is expected to grow at CAGR 6.7% during 2020-2025, generating a revenue of over USD 2 billion in 2025.
- The Telehealth market in UAE is forecasted to reach over USD 536.5 million by 2025, expanding at a CAGR of 25% from 2020 to 2025.
- The highest growing segment within telehealth will be virtual visit market, which is expected to reach USD 280.7 billion by 2025 representing a 30.7% CAGR.
- At the height of the pandemic, 50% of CCAD consultations were using telehealth.
- Mubadala subsidiary Strata partnered with Honeywell International to set up a production line in Al Ain capable of producing over 30 million N95 masks per year, transforming UAE from a net importer to a net exporter of this critical personal protective equipment (PPE).



# IMPORTANCE OF THE HYDROGEN MANUFACTURING MARKET IN UAE

- Siemens Energy has collaborated with DEWA (the state electricity and water company of Dubai), to build the first solar-driven electrolysis hydrogen facility in the Middle East.
- Masdar (the renewable energy arm of the Abu Dhabi sovereign wealth fund), has partnered with Siemens Energy, the Abu Dhabi Department of Energy, Etihad Airways, Lufthansa, Marubeni Corporation and the Abu Dhabi based Khalifa University to develop an electrolysis facility to produce green hydrogen for the transport industry.
- The hydrogen produced is expected principally to be exported from UAE, rather than used as a domestic fuel source.



Source: Watson Farley & Williams, Reuters

# IMPORTANCE OF THE SPACE TECH MANUFACTURING MARKET IN UAE

- UAE has invested heavily in the development of an indigenous satellite industry with the development of Thuraya, DubaiSat, YahSat and KhalifaSat.
- The manufacturing of the KhalifaSAT satellite was done entirely in UAE.
- UAE plans to land an unmanned spacecraft on the moon by 2024 to send back images and data from new sites of the planet that have not been explored by previous lunar missions. A lunar rover will be developed as part of the Moon project.
- As of December 2020, UAE had commissioned 14 spacecrafts, 12 of which are currently operational. While half the fleet has telecommunication purposes, the other half is devoted to Earth observation, science and technology, or space exploration.
- Local universities and laboratories, such as the Yahsat Space Laboratory (YSL), have the capabilities to manufacture nanosats.



Source: UAE Space Agency, Dubai Air Show

# IMPORTANCE OF THE ADVANCED TECH MANUFACTURING MARKET IN UAE

- 3D printing is an area in which UAE is advancing rapidly with countless applications in sectors ranging from construction and aerospace to healthcare.
- The Warsan Building in Dubai is the largest 3D-printed building in the world.
- By 2030, Dubai aims to use 3D-printed materials for 25% of all new construction.
- In 2019, Etihad Engineering provides maintenance, repair, and overhaul division of Etihad Aviation Group, collaborated with 3D technology providers to open an additive manufacturing facility capable of producing and reducing the weight of cabin parts.
- In February of 2020, Dubai Health Authority opened a 3D printing lab to help DHA medical professionals test aortic valve implants, reconstructive surgery parts, and other medical devices.
- In 2019, Strata announced a collaboration with UAE-based DGWorld to automate assembly operations such as drilling, reaming, and countersinking—all of which are critical in the production of aircraft components.
- Robotics & advanced manufacturing allowed Strata to quickly pivot to producing N95 masks to help meet UAE's demands for PPE.
- In 2017, Exechon introduced the XMini robot, the first machine tool built-in carbon fibre. The XMini robot is now used by Refco Metals of Al Ghurair Group, a UAE autopart supplier for leading brands like Ford.



# INITIATIVES FOR THE GROWTH OF MANUFACTURING IN UAE

## Operation 300bn

- Operation 300bn aims to develop UAE's industrial sector and enhance its role in stimulating the national economy.
- It aims to raise the industrial sector's contribution to the GDP from AED 133 billion to AED 300 billion by 2031.
- The Ministry seeks to increase the efficiency and sustainability of the production cycles and supply chains by driving research and development (R&D), establishing a comprehensive system of specifications and standards to create an integrated quality infrastructure for the industrial sector, as well as implementing sustainable industrial policies that reduce resource consumption, and support climate action and carbon neutrality efforts.



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## MoU between UAE Ministry of Industry & Advanced Technology (MoIAT) and UAE Food & Beverage Manufacturers Group

- The MoU signed in October of 2021 will commit to more than doubling the share of the F&B manufacturers' contribution to the national gross domestic product (GDP).
- The objective is to transform the national F&B sector into a global leader of a high-tech, quality food producer and supplier rendering it a hub for the global F&B manufacturing industry.
- As per the MoU, the two entities will focus on strengthening the 'Make it in the Emirates' initiative to increase the share of locally manufactured food products, enhance the sector's competitiveness and explore opportunities to boost exports.
- The two entities will also cooperate to enhance technology adoption to increase the competitiveness of the sector, and to attract more investments related to food industries to enhance UAE's global leadership in the F&B sector.



**UAE Food & Beverage  
Manufacturers**  
A business group of Dubai Chamber  
of Commerce and Industry

Source: UAE Portal, Khaleej Times

# INITIATIVES FOR THE GROWTH OF MANUFACTURING IN UAE

## Basic Industries Project (BIP)

- Abu Dhabi's Department of Economic Development has launched a basic industries project aimed at making the emirate self-sufficient in the production of basic and consumer commodities.
- The project looks to strengthen investment in four major sectors: food production, medical supplies, power generation and important materials such as iron, aluminium and cement.
- Investment opportunities have been announced in 27 fields, 15 of which are in medical and pharmaceutical supplies.
- Investors in these sectors will be entitled to a number of incentives provided under various existing government initiatives.

دائرة التنمية الاقتصادية  
DEPARTMENT OF ECONOMIC DEVELOPMENT



## Fourth Industrial Revolution (4IR) Strategy

- The Fourth Industrial Revolution Strategy aims to strengthen UAE's position as a global hub for the Fourth Industrial Revolution and to increase its contribution to the national economy by means of advancing innovation and future technologies.
- It also aims to position UAE as a global model in adopting leading-edge technologies to serve society and achieve happiness and sustainability.
- Some strategic areas for the strategy include augmented education, personalized medicine, connected care, space data, advance defence manufacturing, and intelligent cities.



Source The National, UAE Portal

# INITIATIVES FOR THE GROWTH OF MANUFACTURING IN UAE

## Make it in the Emirates Lab

- The 'Make it in the Emirates Lab', part of the Make it in the Emirates initiative, is a new public-private initiative that delivers in-class corporate training to small and medium-sized enterprises (SMEs) in the industrial sector.
- The training will also be available to select national students to further support and encourage their contribution to the industrial sector upon graduation.
- It is expected that the Make it in the Emirates SMEs Lab will reach 100 SMEs in total in its first year. It is also expected to accommodate approximately 50 students who will benefit from the training annually.
- The Lab will also offer consultancy services provided directly by MoIAT and via partner companies, with sessions devoted to the practical support offered by Emirates Development Bank and the National In-Country Value programme.



**UNITED ARAB EMIRATES  
MINISTRY OF INDUSTRY  
& ADVANCED TECHNOLOGY**





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# ECO SYSTEM COMPONENTS – INSTITUTIONAL FRAMEWORK



## UAE Food & Beverage Manufacturers

A business group of Dubai Chamber of Commerce and Industry

- UAE Food & Beverage Manufacturers Group, under the auspices of Dubai Chamber of Commerce and Industry, was formed with an objective to protect the interests of the F&B manufacturers and resolve industry-related challenges.
- The group facilitate dialogues and partnerships with various industry partners. By achieving active participation of the companies in this sector, they can create value for all the stakeholders involved.
- Activities will include events that would benefit both business development and professional growth of individuals within a company.



- **The Steel Producers Committee (SPC)** has been formed to represent steel makers and associated businesses at ministries and local entities across UAE.
- This is in efforts to pro-actively improve productivity and the performance of its members with the intention of helping them reach their full growth potential and business targets.
- In addition to resolving any issues that may occur in the future and introducing any relevant investment services or integrated infrastructure to its members locally and internationally.

# ECO SYSTEM COMPONENTS – INSTITUTIONAL FRAMEWORK



- The **Yahsat Space Laboratory (YSL)** was established by Khalifa University, Al Yah Satellite Communications Company (Yahsat), UAE Space Agency, and Northrop Grumman to support the first multidisciplinary academic space program in UAE.
- The laboratory's mission is to develop UAE space technologies and provide students with the opportunity to develop and launch Cubesats.

United Arab Emirates

CENTRE FOR THE FOURTH INDUSTRIAL REVOLUTION



- The Centre for the Fourth Industrial Revolution UAE (C4IR UAE) is a collaboration between the Dubai Future Foundation and the World Economic Forum.
- The Centre in UAE serves as a global public-private platform for the collaborative development of technology governance and policy protocols. Each project portfolio works on a global scale, tailoring each framework to the local ecosystem.
- The C4IR network is a focal point within the international community for multi-stakeholder dialogue and concrete cooperation on governance challenges and opportunities presented by advanced technologies from the fourth industrial revolution (4IR).

# ECO SYSTEM COMPONENTS – FUNDING & FINANCING ENTITIES

Illustrative, non exhaustive



# ECO SYSTEM COMPONENTS – INCUBATORS, ACCELERATORS & VCS

Illustrative, non exhaustive

STARTAD

dai Dubai Angel Investors

بدايات  
BEDAYAT  
BUSINESS INCUBATOR

مجمع الشارقة للبحوث  
والتكنولوجيا والابتكار  
Sharjah Research Technology  
and Innovation Park



AREA  
2071

CATALYST  
A Masdar-BP Initiative

Dtec  
مركز دبي التكنولوجي لريادة الأعمال  
Dubai technology entrepreneur centre

Sharjah Angel Investors Network

Mubadala Capital Venture

DIFC  
FinTech Hive

HI  
HAMDAN  
INNOVATION  
INCUBATOR

حمدان  
للإبداع  
والابتكار

ADGM  
AN INTERNATIONAL FINANCIAL CENTRE

wamda

ME  
VP  
MIDDLE EAST  
VENTURE PARTNERS

مسرعات دبي للمستقبل  
DUBAI FUTURE ACCELERATORS

DisruptAD

HUB71

KRYPTO|LABS

F&B  
Innovation Lab  
A Khalifa Fund & FBMG Initiative

DUBAI  
SCIENCE  
PARK

PLUGANDPLAY

SHERAA

DUBAI  
INTERNET  
CITY

venture  
labs

MUBADALA



FLAT6LABS

VENTURE MENA

BECO

SHOROOQ  
PARTNERS



مؤسسة دبي للمستقبل  
DUBAI FUTURE FOUNDATION

EMIRATES AI

# EVENTS BY THE UAE GOVERNMENT IN MANUFACTURING

Illustrative, non exhaustive



- Gulfood Manufacturing is the MEASA region's largest and leading food and beverage processing and packaging event. Over the course of three days, 36,000 food and beverage manufacturers convene in Dubai to showcase the latest production and packaging solutions from 60+ countries.



- Middle East Concrete is an international large-scale exhibition that will feature 5 new dedicated sectors across the heavy construction and concrete industry, and over 300 local and international suppliers to help the attendees source the right products and solutions for them.



- Middle East Manufacturing & Technology Expo is an event dedicated to the manufacturing and industrialisation industry. The event provides opportunities for the manufacturing and technology professionals to explore solutions in the construction and design sector.



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# MANUFACTURING SECTOR GOVERNANCE



UNITED ARAB EMIRATES  
MINISTRY OF ECONOMY

<https://www.moec.gov.ae/en/home>

- The UAE Ministry of Economy was established in accordance with Federal Law No (1) of 1972.
- The Ministry set out an growth vision aiming to achieve an internationally competitive and diversified economy driven by efficient and knowledgeable UAE nationals.
- The ministry plays a major role in facilitating and enabling business landscape and formulating business-friendly policies that would consolidate UAE's reputation as a regional and global business hub.



UNITED ARAB EMIRATES  
MINISTRY OF INDUSTRY  
& ADVANCED TECHNOLOGY

<https://moiat.gov.ae/en/>

- Established in July 2020, the Ministry of Industry and Advanced Technology (MoIAT) aims to boost UAE's industrial sector and increase its contribution to the GDP.
- The Office of the Minister of State for Advanced Technology, the Emirates Authority for Standardization and Metrology (ESMA) and the Industry sector in the Ministry of Energy and Infrastructure have been merged into the structure of the Ministry of Industry and Advanced Technology since then, and all authorities, responsibilities and duties have been transferred to the newly founded Ministry.



# LICENSING AUTHORITIES IN THE UAE

دائرة التنمية الاقتصادية  
DEPARTMENT OF ECONOMIC DEVELOPMENT



<https://added.gov.ae/>



**GOVERNMENT OF SHARJAH**  
Economic Development Department

<https://www.sedd.ae/web/sedd>



دائرة التنمية الاقتصادية  
Department of Economic Development

<https://ded.rak.ae/en/Pages/default.aspx>



دائرة الصناعة والاقتصاد  
DEPT. OF INDUSTRY & ECONOMY

اقتصادية دبي  
DUBAI ECONOMY



<https://ded.ae/>

دائرة التنمية الاقتصادية  
Department of Economic Development



<https://www.ajmanded.ae/en/>



دائرة التنمية الاقتصادية  
Department of Economic Development

<http://www.ded.uaq.ae/en/home.html>