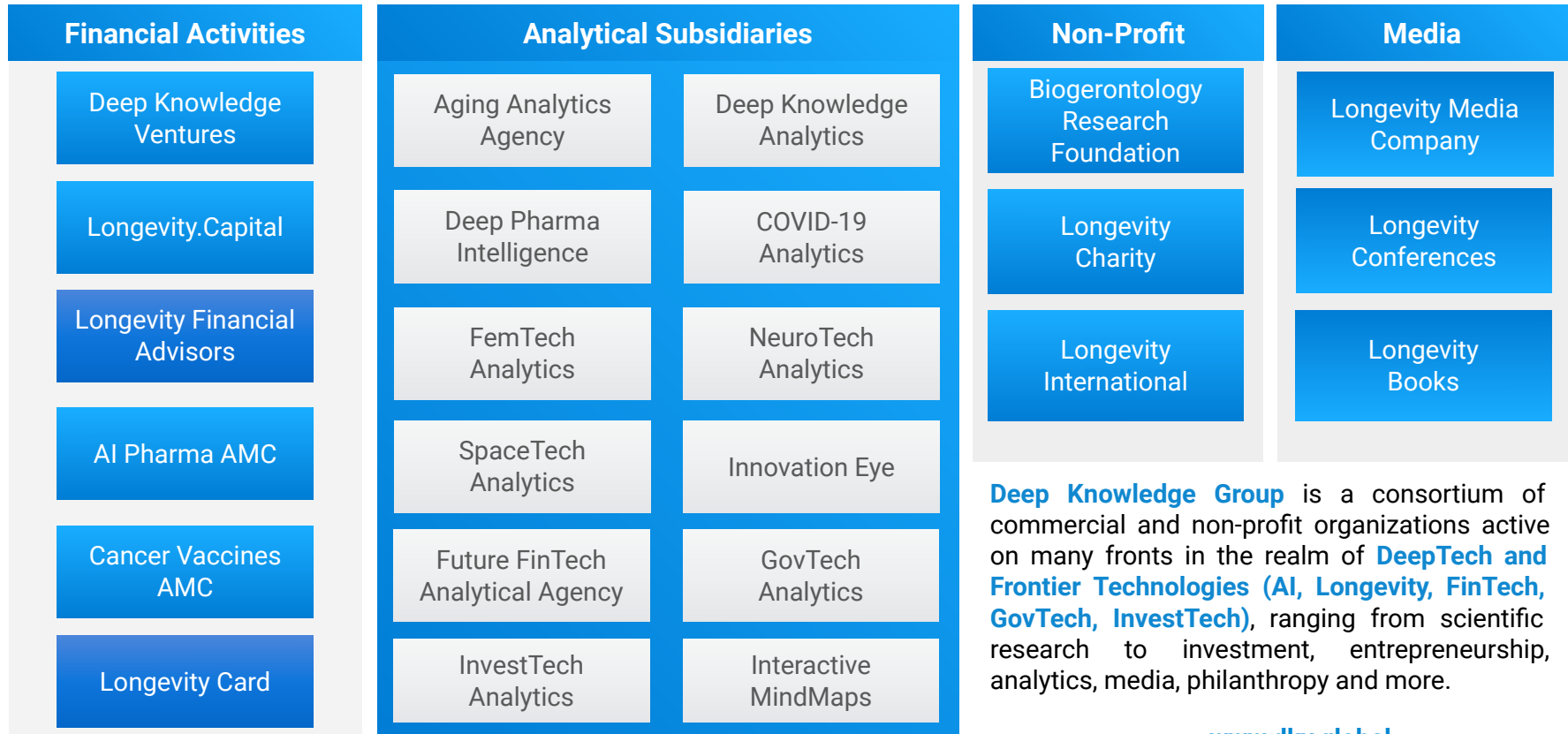


# Life Sciences in the United Arab Emirates

Deep Knowledge Group

**Anastasia Lit, Director Investor Relations Europe & MENA, Deep Knowledge Group**

# Deep Knowledge Group Structure



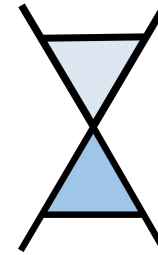
**Deep Knowledge Group** is a consortium of commercial and non-profit organizations active on many fronts in the realm of **DeepTech and Frontier Technologies (AI, Longevity, FinTech, GovTech, InvestTech)**, ranging from scientific research to investment, entrepreneurship, analytics, media, philanthropy and more.

[www.dkv.global](http://www.dkv.global)

# Life Sciences in the UAE Landscape Project

**Agging Analytics Agency** in collaboration with **Sharjah Research, Technology, and Innovation Park** has released the Life Sciences in the United Arab Emirates report.

## About Agging Analytics Agency



**AGING  
ANALYTICS  
AGENCY**

[www.aginganalytics.com](http://www.aginganalytics.com)

## About Sharjah Research, Technology, and Innovation Park

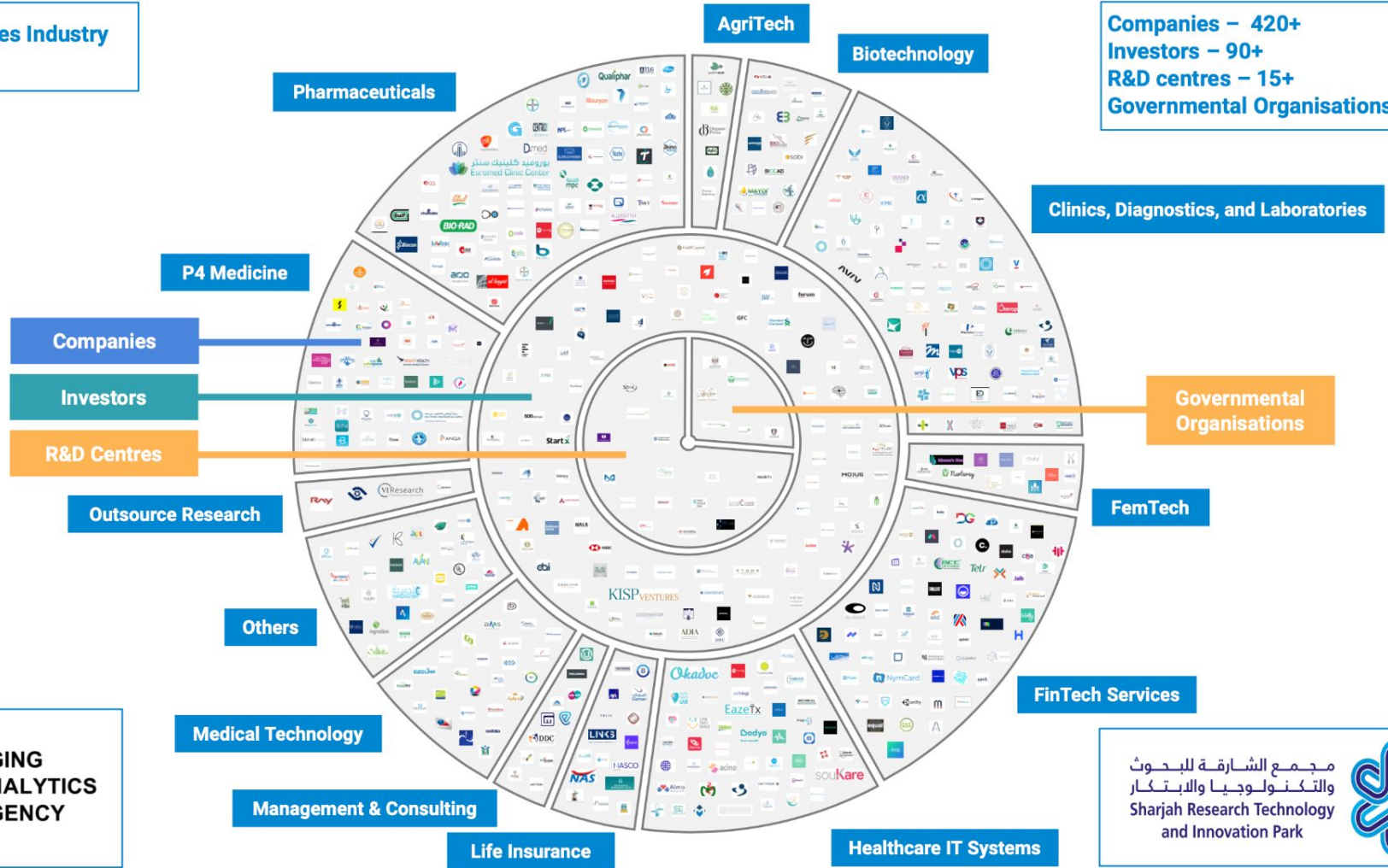
مجمع الشارقة للبحوث  
والتكنولوجيا والابتكار  
Sharjah Research Technology  
and Innovation Park



[www.srtip.ae](http://www.srtip.ae)

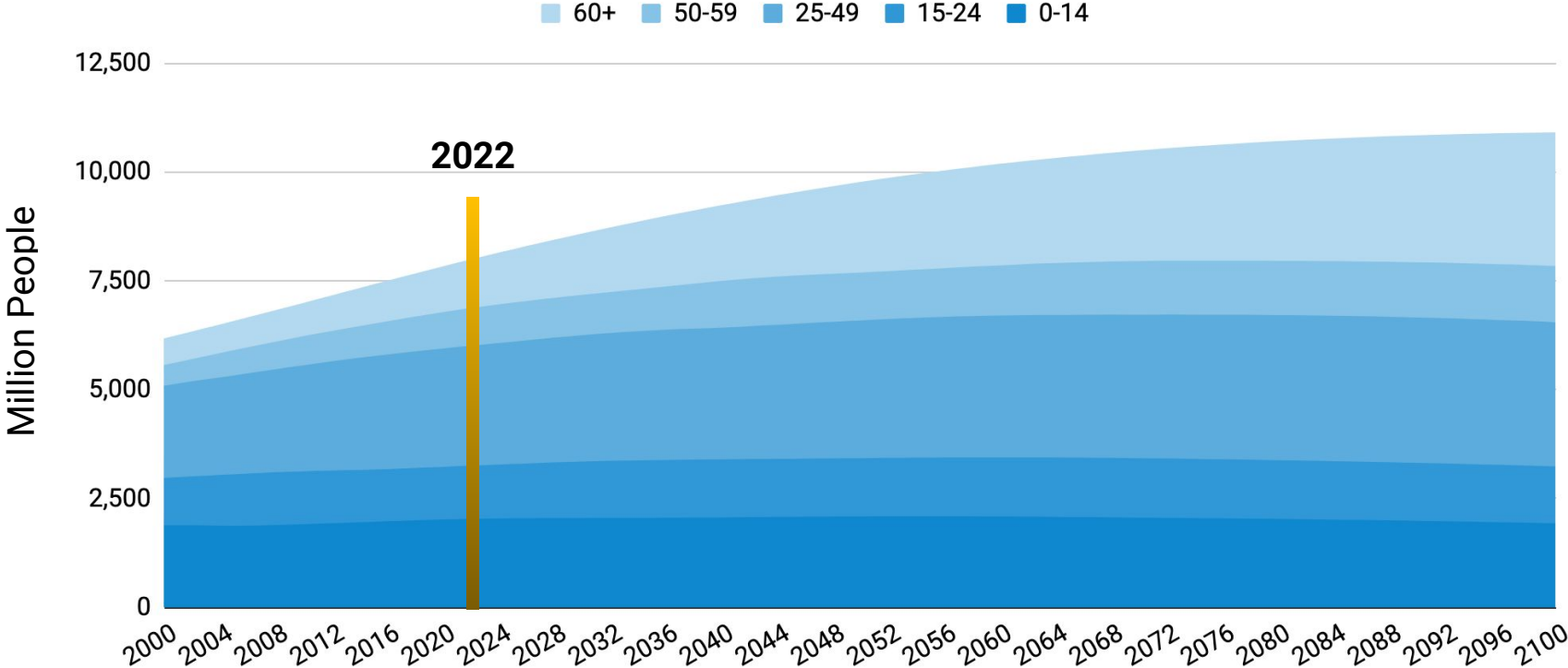
**Life Sciences Industry  
in the UAE**

**Companies – 420+  
Investors – 90+  
R&D centres – 15+  
Governmental Organisations – 6**



# Macro Trends on Aging Population

## Projections of World Population by Age, 2000-2100, Million People



# The '7th Continent' of 1 Billion People in Retirement

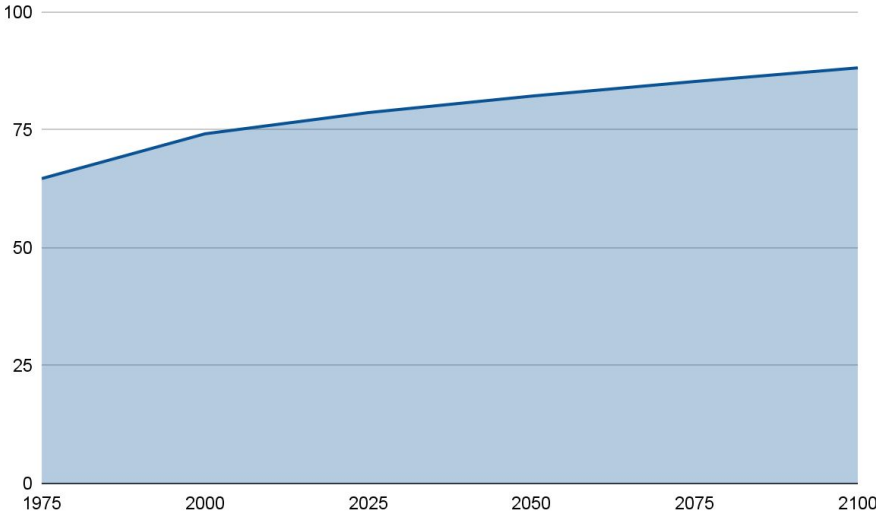
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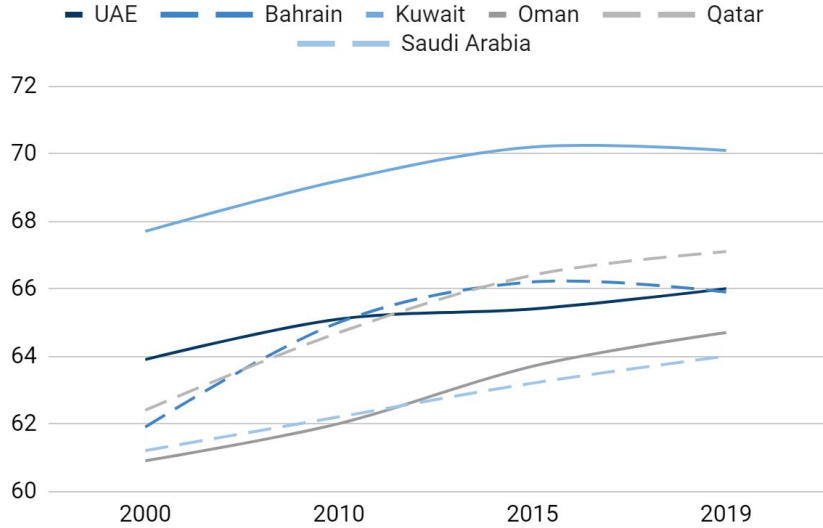
There are **more than 1 billion people aged 60 years** and older in the world nowadays. In fact, there are so many of them that they can populate an entire '7th Continent'. Not only do they wield immense purchasing power, but they also hold the largest amount of financial assets compared to other age groups.

# Life Expectancy in the UAE

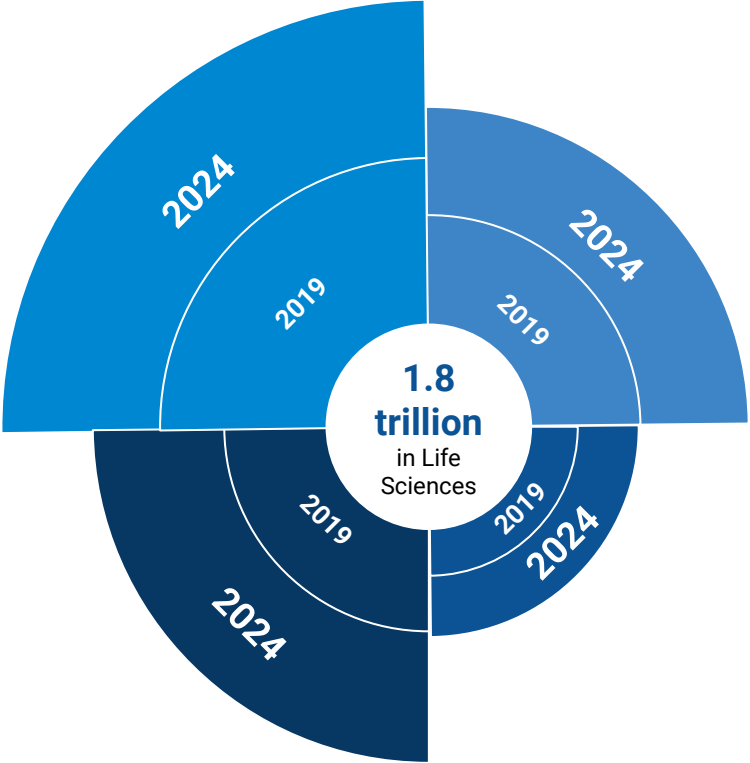
## Life Expectancy in the UAE, 1975-2100



## HALE at Birth for Both Sexes in the Gulf Cooperation Region



# Global Life Sciences Industry Outlook



## Pharmaceuticals

\$ 871 → 1200



## Medical devices

\$ 475 → 595



## CROs

\$ 37 → 55



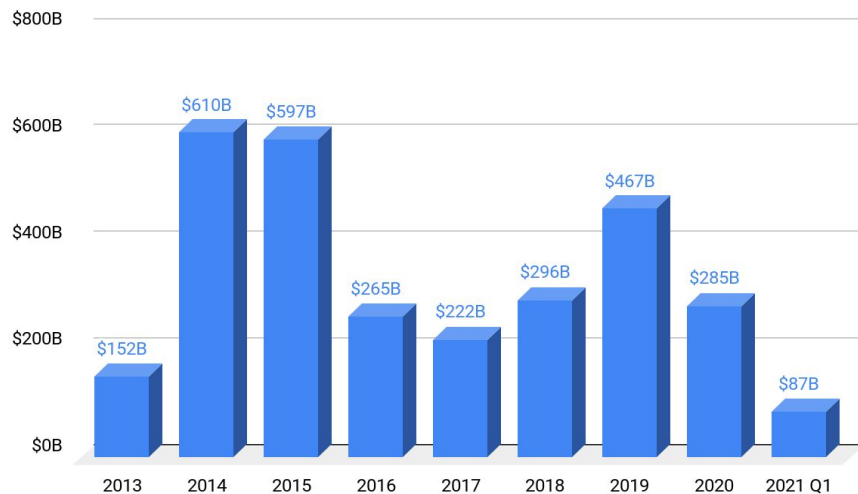
## Biotechnology

\$ 453 → 656

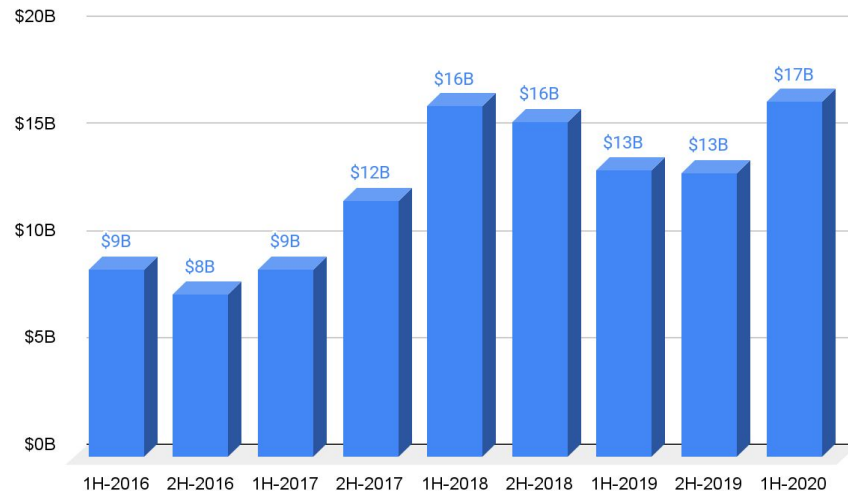


# Global Life Sciences Industry Outlook

## Total Value of Deals in the Life Sciences Industry Worldwide from 2013 to Q1 2021

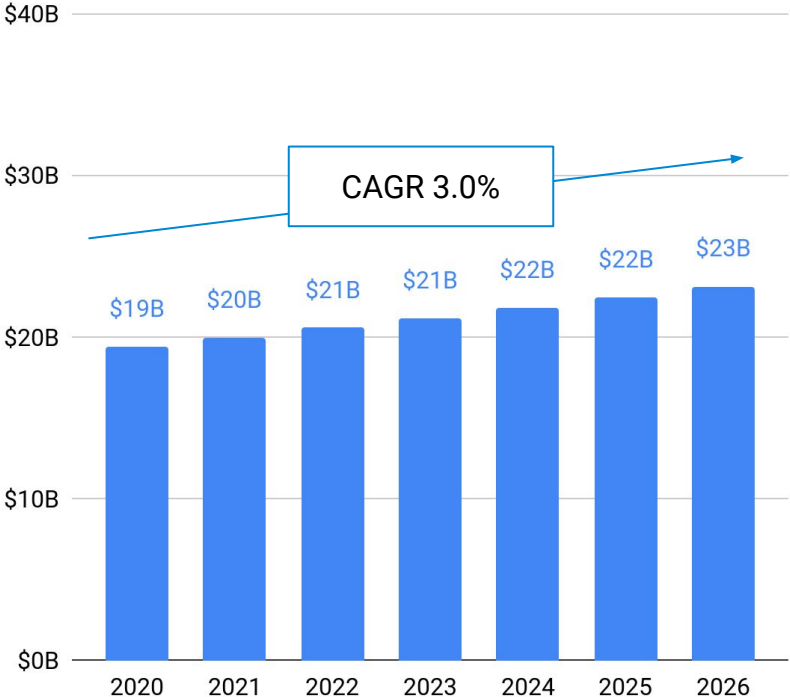


## Global Funding for Life Sciences-Related Rounds, Series A and Beyond

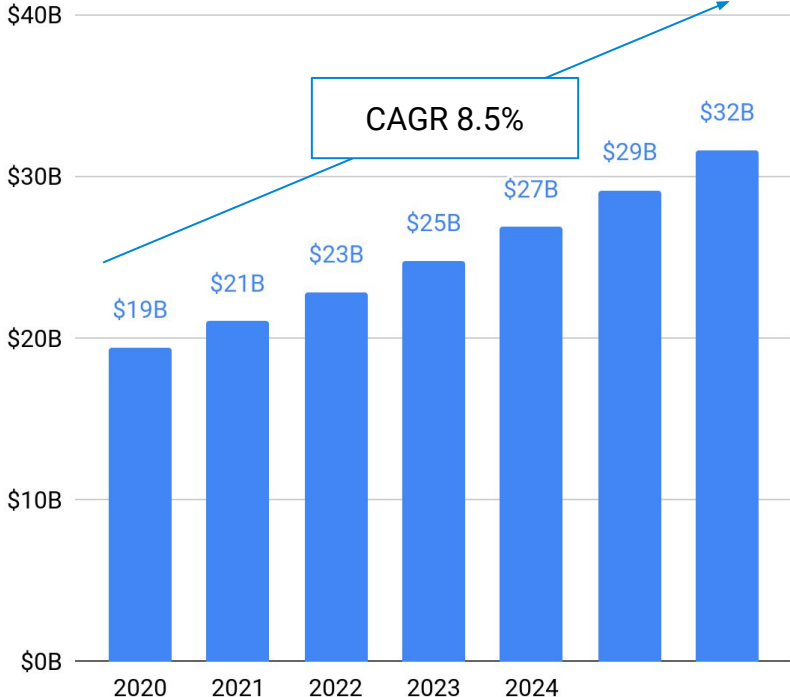


# Two Scenarios of the UAE's Longevity Market Size Projection

### Grey Sky Scenario of the UAE's Longevity Market's Forecasted Growth, 2020-2026

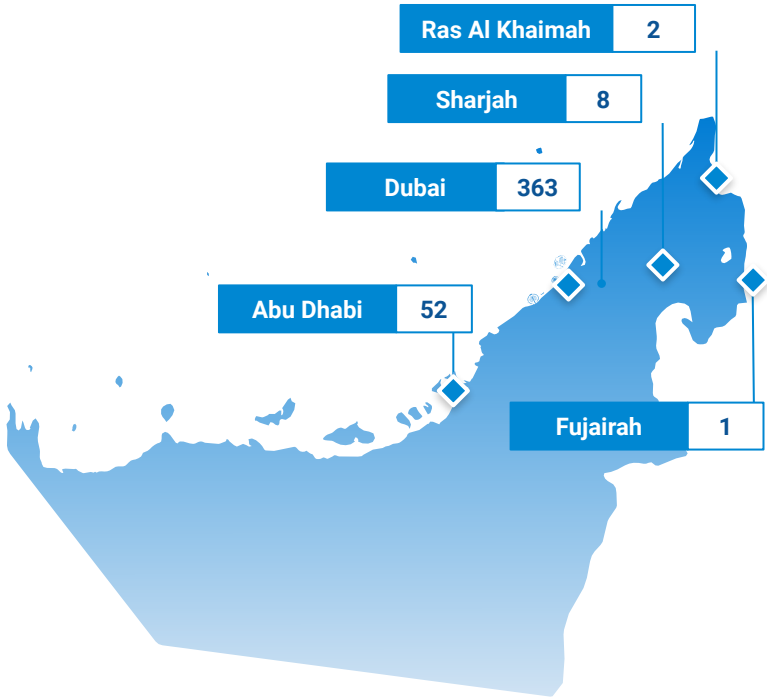


### Blue Sky Scenario of the UAE's Longevity Market's Forecasted Growth, 2020-2026

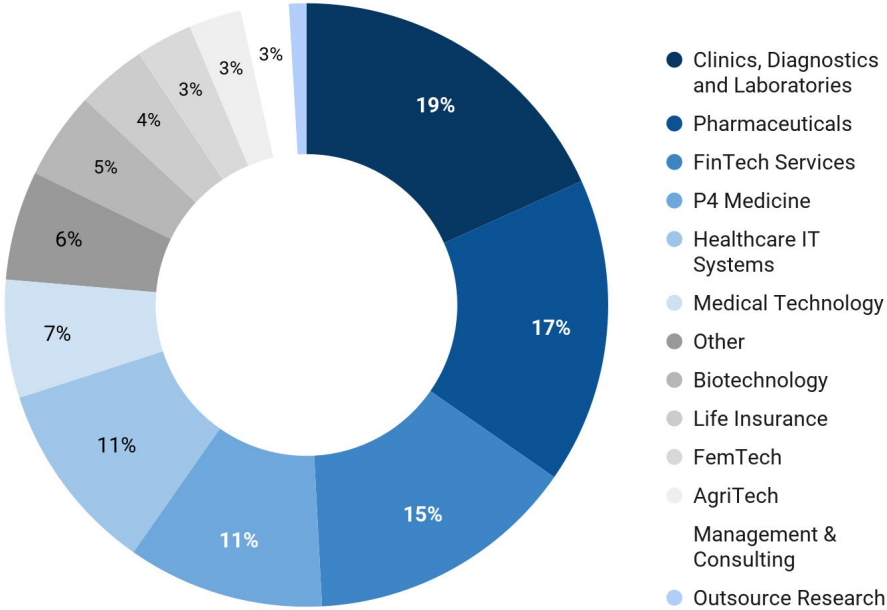


# UAE Life Sciences Industry at a Glance

Distribution of UAE Life Sciences-Focused Companies by Emirate

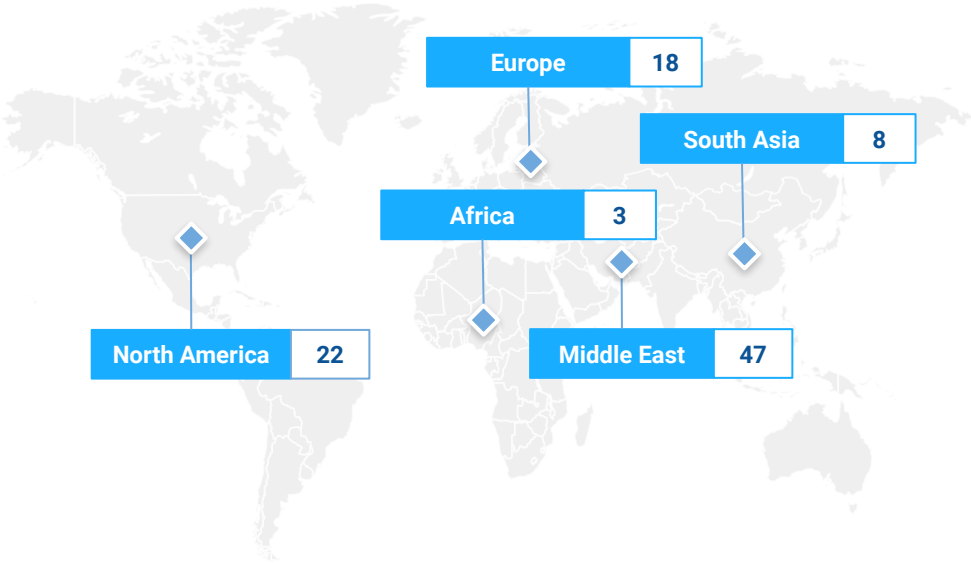


Distribution of UAE Life Sciences Companies by Category

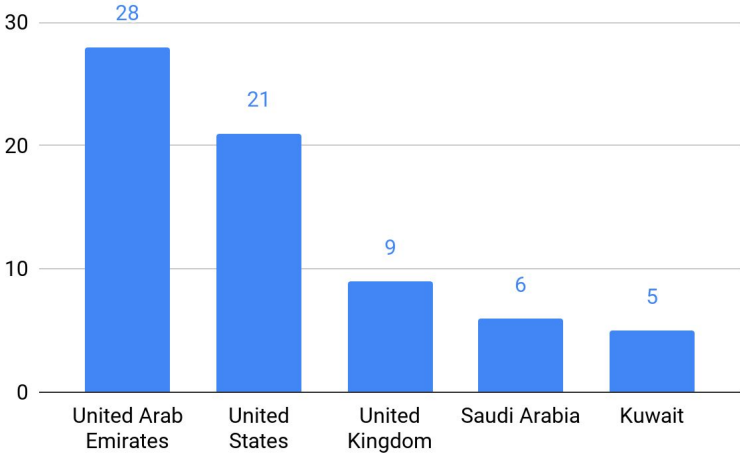


# UAE Life Sciences Industry at a Glance: Investors

### Distribution of Investors by Region

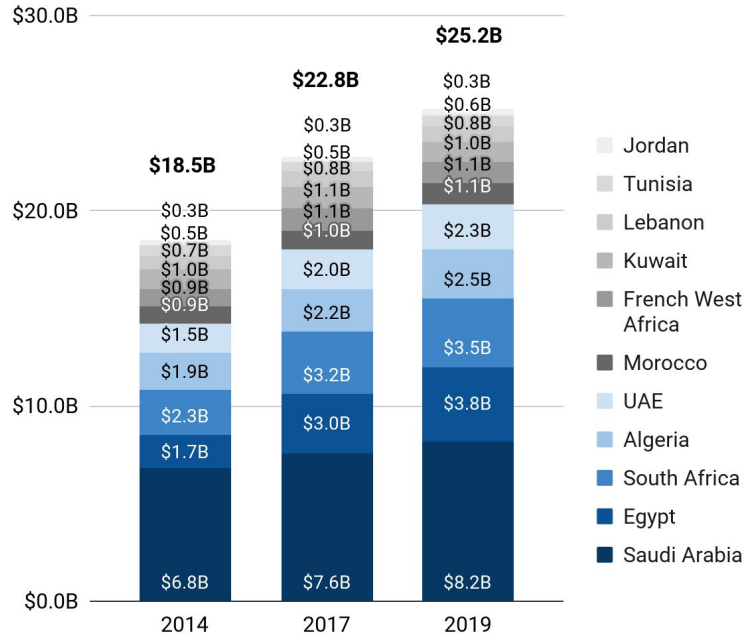


### Top 5 Countries by Number of Investors

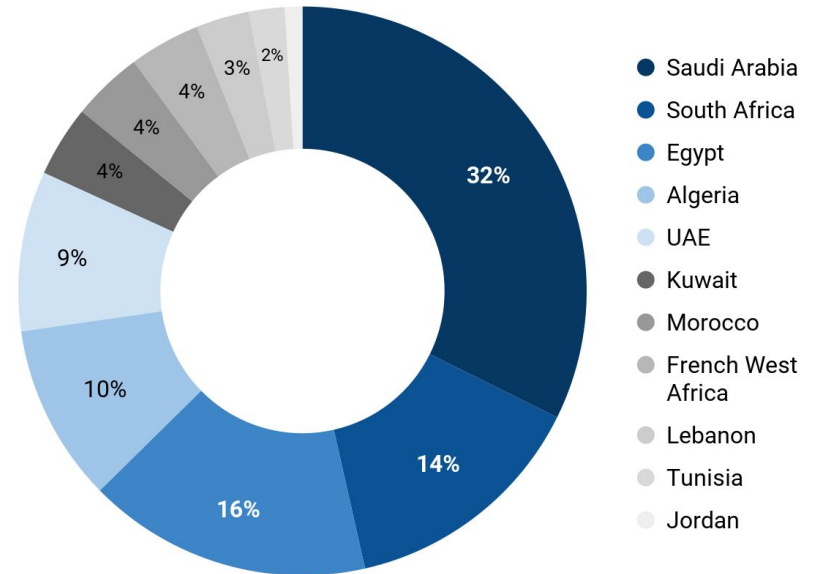


# Middle East and North Africa Pharmaceutical Market

## Middle East & North Africa Pharmaceutical Market Size by Country

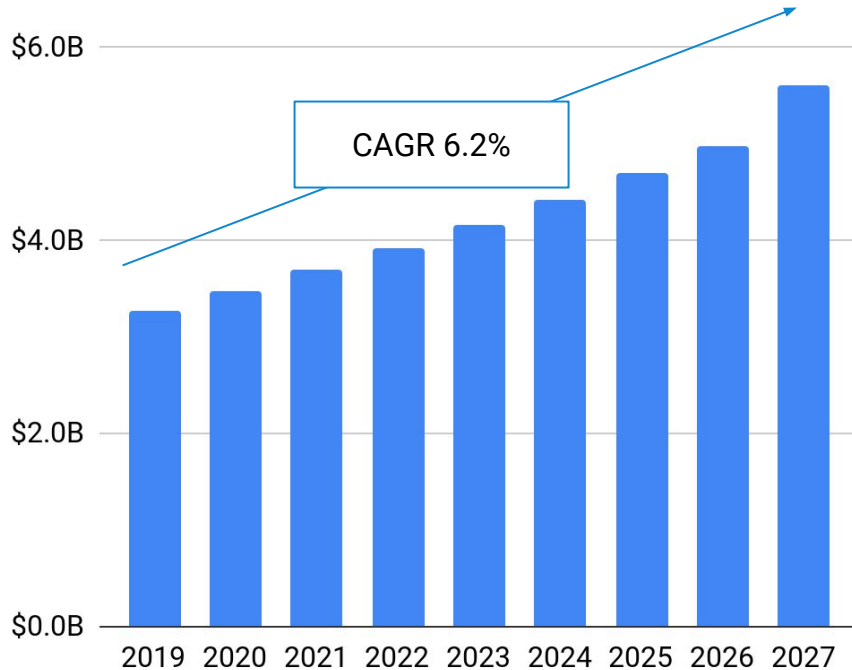


## Share of MENA Pharmaceutical Market by Country, Q1 2019

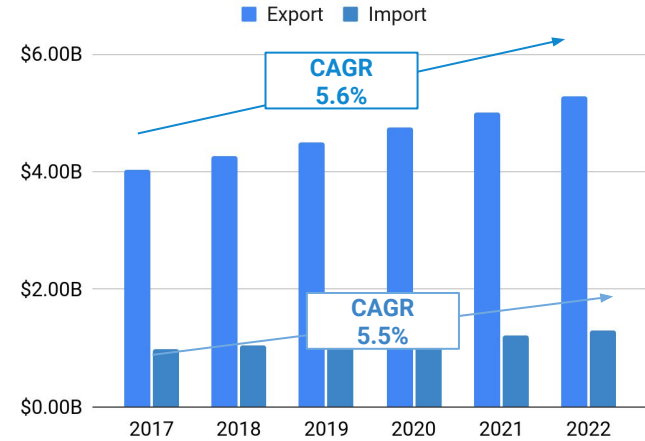


# The UAE Pharmaceutical Industry Outlook

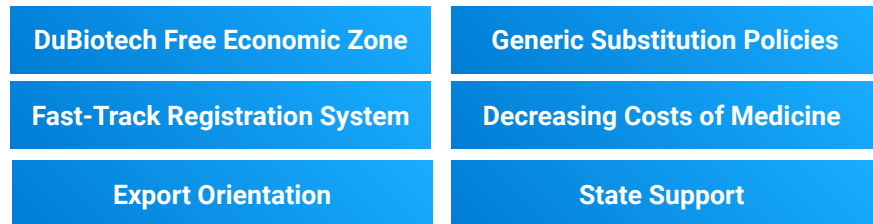
## Forecasted Growth of the UAE Pharma Industry, 2019-2027



## UAE Pharma Export and Import, 2017-2022

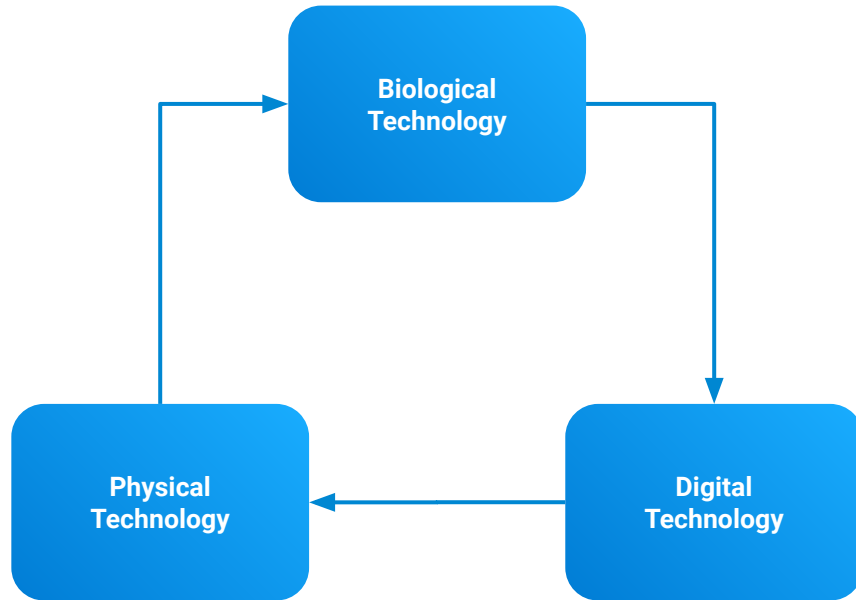


## Steps for Establishing the UAE as a Pharma Hub



# The UAE's 4th Industrial Revolution

## 4th Industrial Revolution



## Characteristics of the 4th Industrial Revolution

1

**Speed:** Exponential and unprecedented advancements.

2

**Impact:** A large-scale and comprehensive transformation in all systems.

3

**Scope:** The 4th Industrial Revolution will affect all current and future sectors.

# The UAE Healthy Future Study

## Scope:

- Primarily interested in the risk factors for obesity, diabetes, and cardiovascular disease
- Both proximal (e.g. smoking, obesity, hypertension) and distant (i.e., socioeconomic) determinants
- Genetics, epigenetics, and microbiome

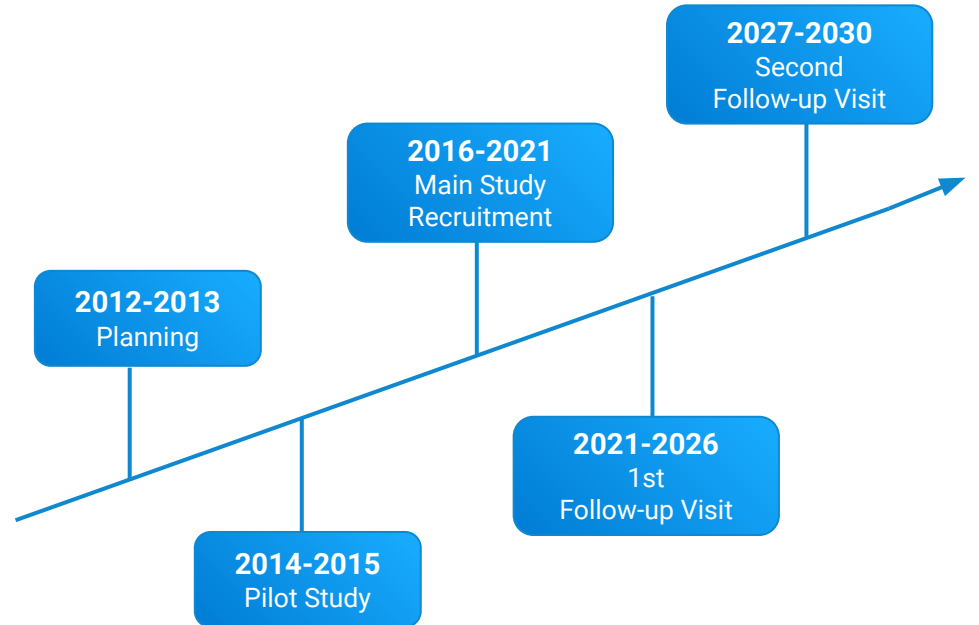
## Sample:

- Population-based recruitment of healthy volunteers
- 20,000 participants, aged 18-40
- 5,000 participants recruited to date
- Link to electronic health records for key outcomes agreed
- Follow-up visits every 4 years.

## Approach:

- Questionnaire, anthropometric measures, and biological samples
- More accurate measures of diet and physical activity using new technologies

## Study Timeline







## Examples of the 189 Age-Friendly Initiatives

### Age-Friendly Housing

The goal is to provide a list of age-sensitive technical standards and regulations for housing construction and maintenance.

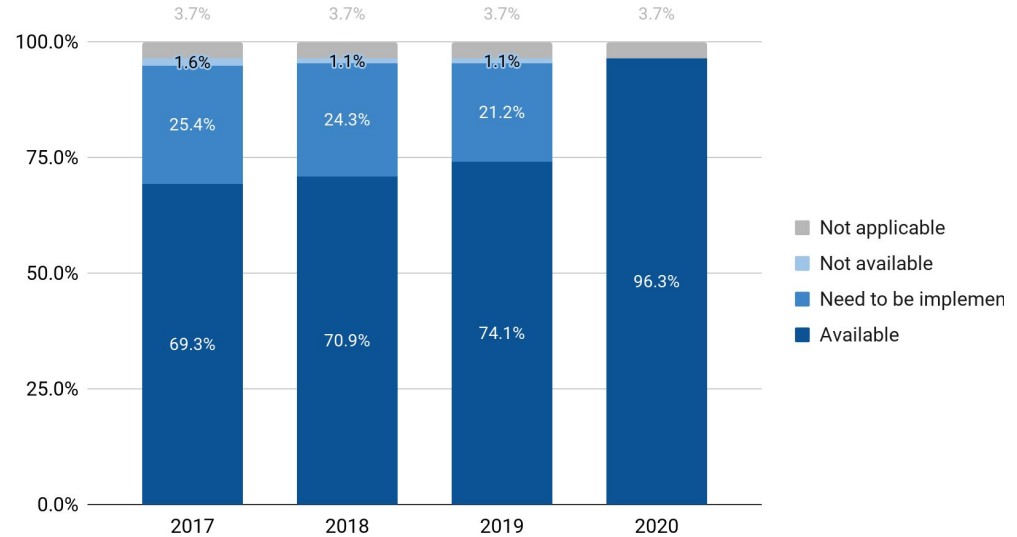
### Community Responsibility

Under this initiative, people aged over 60 are eligible for additional perks, regardless of their nationality or emirate of residence.

### Age-Friendly Public Places

This initiative has been launched ahead of time to provide lighting in places frequented by the elderly.

## Evaluation of Fulfillment of Age-Friendly Standards in



\*Note: Some of the age-friendly city standards are not applicable in Sharjah (3.7%). The rest were implemented on time, by the end of 2020.



**This programme aims to lower the risk of contracting COVID-19 and regulate the virus's transmission.** The Department not only distributes the medications, but also virtually completely instructs the recipients on how to use them, store them, give them at what times, and preserve them. The effort is mostly supported by city funding.

## The initiative is aimed at:

- Elderly people
- Disabled people
- People with weak immune systems
- People with chronic diseases



# Key Points

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In 2020, the market size of the Longevity Industry in the UAE was **more than \$19 billion**. In the grey sky scenario, it is projected to grow at least as fast as the UAE economy (3.0%) at a **CAGR of (3.0%)** to reach **\$23 billion in 2026**. The main drivers of this growth will be rising **domestic demand, increasing exports** and **strong government support** for all market players, from Big Pharma corporations to small BioTech startups.



**The 4th Industrial Revolution** marks a significant milestone in the future of the United Arab Emirates. It offers both unprecedented **opportunities** and several **challenges** that must be competently addressed.



**The 420+ Life Science companies** in the UAE were classified into **11 broad categories**: Clinics, Diagnostics and Laboratories, Pharmaceuticals, FinTech Services, Healthcare IT Systems, P4 Medicine, Medical Technology, Biotechnology, Life Insurance, FemTech, Management & Consulting, and Other.



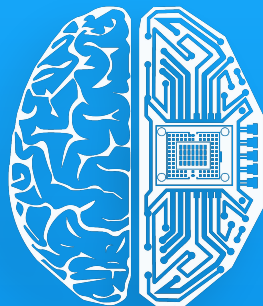
The locomotives of the growth of the Life Sciences Industry are the **Clinics and Pharmaceuticals subsectors**. The UAE is focusing on drawing **international pharmaceutical companies** to establish and expand their presence in the country.



To achieve sustainable growth in the UAE, government entities have adopted a series of **long-term plans**. The **Dubai Health Strategy** has been designed to turn Dubai into a **global leader in the delivery of healthcare**. The **Dubai Industrial Strategy** aims to make Dubai 'an **international hub for knowledge-based** innovation and sustainable Industrial **activities**'.



[www.longevity-journal.info](http://www.longevity-journal.info)



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