

# Türkiye's **Biotechnology** Ecosystem

**BİOSB**  
BIOTECHNOLOGY SPECIALIZED ORGANIZED INDUSTRIAL ZONE

**BİYOSAD**  
Biotechnology Industrialists Association

**BIOTECHNOLOGY**  
V A L L E Y





BUILDING THE FUTURE WITH  
**THE BIOTECHNOLOGY VALLEY**  
IN THE HEART OF ISTANBUL

## **Biotechnology Valley:**

### Istanbul's Gateway to Global Biotech Innovation

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Biotechnology Valley, strategically located at the crossroads of Europe and Asia in Istanbul, is a visionary initiative focused on advancing the field of biotechnology. This ambitious project integrates all industry stakeholders into a comprehensive ecosystem. Aimed at becoming a central hub for producing high value-added biotechnological products for global export, Biotechnology Valley offers a robust infrastructure and incentive mechanisms.

The Valley is designed to be a dynamic center featuring a technology development zone, R&D centers, a technology transfer office, testing and calibration laboratories, patent offices, a vocational school for biotechnology, and a Basic Sciences University. These components provide a comprehensive framework for supporting all aspects of the biotechnology sector and aspire to establish Biotechnology Valley as one of the world's leading biotech ecosystems.



## Our Vision:

To position Türkiye as a leading country in the biotechnology sector globally, making a significant impact in the international market with innovative products. Through the Biotechnology Valley, we aim to contribute to the national economy and enhance living standards.



## Our Mission:

To develop innovative projects and high-value products that boost the economy through the Biotechnology Valley, improving quality of life locally and globally. We emphasize sustainability and support education, research, and environmental stewardship as part of our commitment to social responsibility.



## The sector groups and sub-sector groups planned in the region are as follows



Health



Animal Husbandry



Raw Materials



Medical



Environment



Semi - Finished Products



Food



Materials



Additives



Agriculture



Industrial Areas



Supply Chain



**20.000 qualified individuals**  
will be employed.



**2.000 of these employees**  
will have postgraduate degrees.



**8.000** will hold **bachelor's degrees**.



**10,000** will be **blue-collar workers**.

As **Biotechnology Valley**, we are collaborating closely with the Ministry of Industry and Technology, the Ministry of Health and the Governor's Office. Through our robust infrastructure and incentive mechanisms, **we aim to become a major player on the global stage.**



# Biotechnology Valley Overview



## Facilities and Focus Areas

Designed to host 160 leading biotech firms across pharmaceuticals, food, agriculture, environment, and medical devices.

Spans 1.7 million square meters, with 500.000 square meters dedicated to R&D centers, technology zones, and a Biotechnology Specialty School.

## Strategic Location and Accessibility

Located just 12 km from Sabiha Gökçen International Airport, providing easy national and international access.

## Academic and Industrial Collaboration

Positioned for collaboration with distinguished institutions like Istanbul Technical University and Sabancı University.

Maintains close ties with industrial zones to strengthen sectoral connections.



# Tuzla **Biotechnology** **Valley** Projects

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Construction is progressing well, with **40% of the infrastructure** already completed. Superstructure work has begun, and we aim to finish by the end of the year.

We have secured both domestic and international investments, and negotiations are ongoing to ensure **financial sustainability**.

**The Environmental Impact Assessment (EIA) approval** has been obtained, and the project has received Organized Industrial Zone status.

In the first phase, the project is expected to create over 5.000 jobs. We have developed collaborations with local businesses and universities to support this growth.

Our goal is to reduce dependency on imports and enhance innovation in the biotechnology sector by 2025.

# Expectations from **International Partners**

## **Financial Support:**

Provision of long-term funding is crucial for the completion of infrastructure and the implementation of innovative projects.

Contributions should facilitate the creation of a sustainable ecosystem.

## **Strategic Investments:**

Strategic investments are expected in advanced technology and innovative processes.

Technological and operational contributions should enhance global competitiveness.

## **Technical Support and Knowledge Transfer:**

It is essential to integrate expertise and innovations from the biotechnology sector into local projects.

Knowledge transfer should aid in increasing local capacity.

## **Strategy and Planning Consultancy:**

Strategy and planning processes should be supported by leveraging international experience.

Guidance should be provided to secure a position in the global market.

# 10 Reasons to invest in Türkiye



ROBUST  
ECONOMY



DOMESTIC  
+ACCESSIBLE  
MARKETS



STRATEGIC  
LOCATION



FAVOURABLE  
DEMOGRAPHICS



SKILLED  
AND  
COMPETITIVE  
LABOR FORCE



CONTINUOUS  
REFORM PROCESS



BUSINESS-FRIENDLINESS



LUCRATIVE  
INCENTIVES



BENIGN R&D  
ECOSYSTEM



SECTORAL  
OPPORTUNITIES

Türkiye offers convenient access to a market with a population of 1.3 billion and a value of USD 28 trillion, encompassing Europe, the Middle East, North Africa, and Central Asia with in a 4-hour flight radius.

### **Same-Day Access to Major Markets**

Türkiye's strategic location provides easy and same-day accessibility to markets across 16 different time zones, ranging from Tokyo to New York.

### **Global Connectivity**

Turkish Airlines operates flights to 342 destinations in 121 countries.

### **A Hub for Global Companies**

Global companies increasingly choose Türkiye as a hub for production, export and management.



It exports more than 85% of its production in Türkiye



It exports 87% of its production in Türkiye

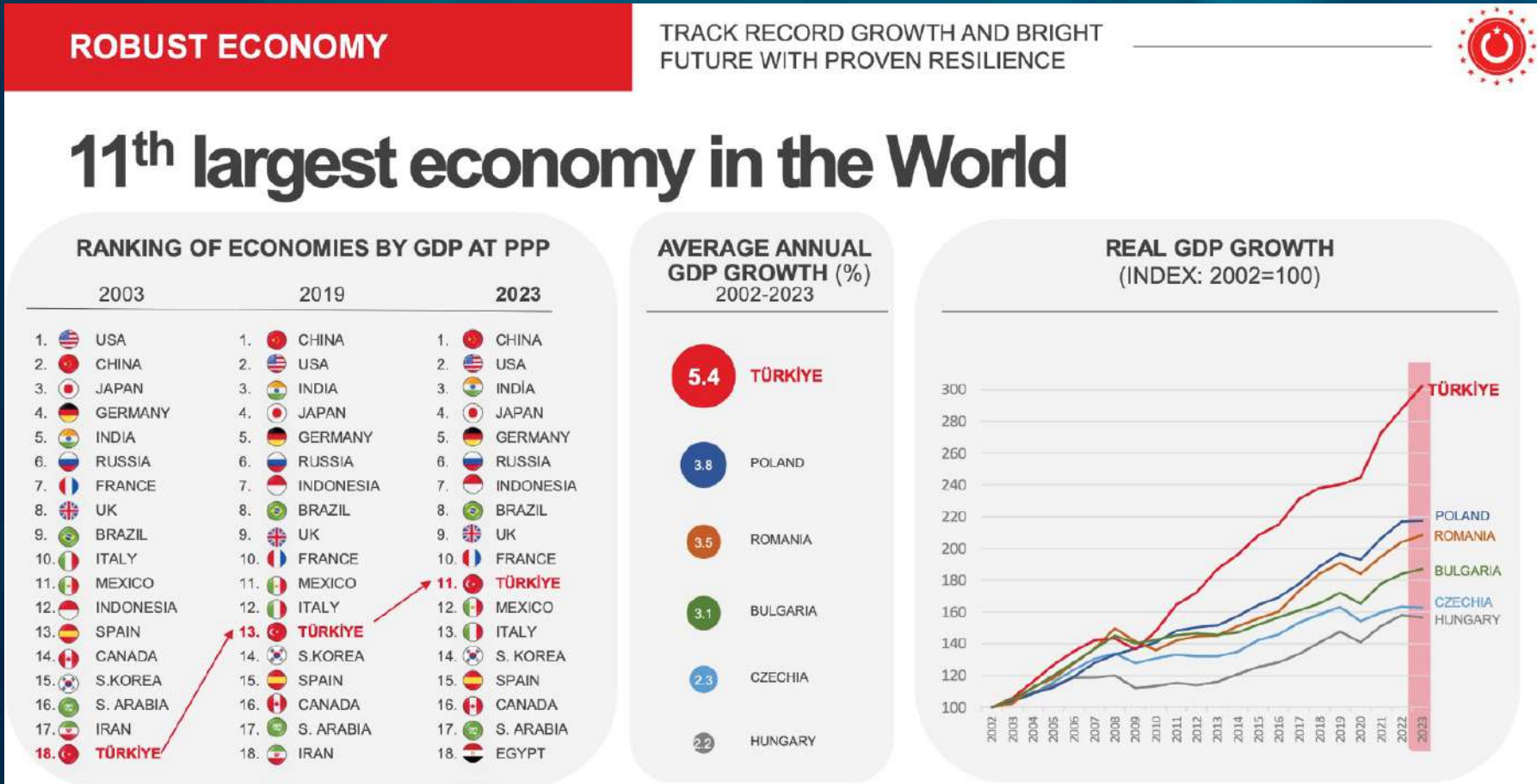


It uses Türkiye as a production base for the Middle East and North Africa region.

Over the past 18 years, Türkiye has reduced restrictions on investments through significant reforms, rising to 33rd place among 190 countries in terms of ease of doing business.

By attracting 225 billion USD in direct international investment, Türkiye has become a regional investment hub and ranks 12th in GDP per capita among populous countries.

This version improves clarity and flow while ensuring accurate grammar and punctuation.





### **Qualified and Competitive Workforce:**

Workforce: 34.3 million; the second largest workforce in Europe.

### **Türkiye and Global Commodity Exports:**

With an impressive annual average growth rate of 10.3% in exports, Türkiye has outperformed global performance, increasing its export volume from 36 billion USD to 254 billion USD over the past 20 years.

### **Türkiye's Share in Global Exports:**

In line with its outstanding performance, Türkiye's share in global exports, which was below 0.6% in 2002, reached 1% in 2021.

### **Distribution of Türkiye's Exports by Region:**

By elevating its total export volume from 36 billion USD in 2002 to 254.2 billion USD in 2022, Türkiye has achieved significant diversification in terms of both the countries it exports to and the variety of products exported.



### **Economic Growth and Resilience:**

One of the fastest-growing countries in the past 21 years.  
High resilience to global economic shocks.

### **Geostrategic Location:**

At the crossroads of Europe, Asia, and Africa.  
A strategic access hub for global investors.

### **Investment and Infrastructure:**

Attracted 262 billion USD in Foreign Direct Investment (FDI).  
A leader in Central and Eastern Europe, the Middle East, and North Africa regions.

### **Companies and Innovation:**

Over 80,000 multinational companies operate.  
Regional hub for manufacturing, R&D, design, and logistics centers.

# Investment Zones

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## **Technology Development Zones (Technoparks):**

There are 101 Technology Development Zones (TDZs), of which 87 are active. These zones support R&D and high-tech investments.

## **Organized Industrial Zones:**

Across 81 provinces, there are a total of 392 Organized Industrial Zones (OIZs), with 274 currently operational. These zones host over 67,000 companies and provide employment for more than 2 million people.

## **Free Zones:**

There are 9 Free Zones offering customs advantages for export-oriented investments.

## **Industrial Zones:**

There are 40 Industrial Zones that provide opportunities for technology transfer and competitiveness for large-scale investments.





# Türkiye as Guest of Honor in South Korea

Türkiye has been selected as the guest of honor at the Bioplus Interphex Korea 2024 events. A delegation led by Dr. Ercan Varlıbaş, the Founding Chairman of the Board of Biotechnology Valley, visited the Incheon Free Economic Zone in Seoul. During the visit, a Memorandum of Understanding (MoU) was signed between Biotechnology Valley and the Incheon Free Economic Zone.



WORLD'S MOST TANGIBLE BIO-HEALTHCARE CONVENTION  
**BIOPUS · INTERPHEX**  
KOREA 2024

**VIP Lunch Reception**



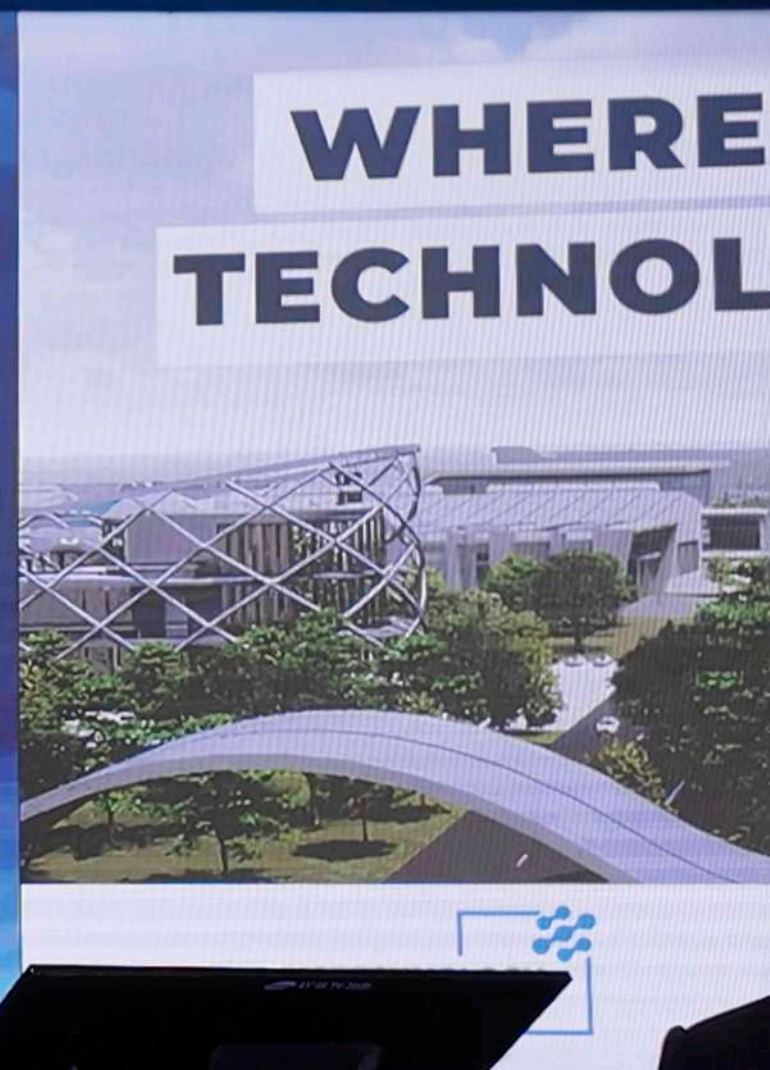
# We Were at the BioProcess International Conference in Boston

Under the leadership of Dr. Ercan Varlıbaş, Biotechnology Valley participated in the BioProcess International Conference & Exhibition held from September 23-26, 2024, at the Hynes Convention Center in Boston. During the event, insights were exchanged on the most innovative technologies and applications in the industry.



# Biotechnology Valley Represented Turkey at the 2024 Healthcare+ Expo

From December 5th to 7th, during the 2024 Healthcare+ Expo held in Taiwan, our Chairman of the Board, Dr. Ercan Varlıbaş, represented our country as a special guest of the Taipei Economic and Cultural Mission. Throughout the event, Dr. Varlıbaş conducted B2B meetings in Biotechnology Valley with numerous association presidents and international participants from regions such as Australia, Indonesia, Taiwan, Malaysia, the Middle East, and Africa.



## DOMESTIC + ACCESSIBLE MARKETS

DOMESTIC MARKET + EU MARKET + FREE TRADE AREA



Customs Union with the EU  
allows direct access to the EU Market

- NORWAY ISRAEL \*SUDAN
- LIECHTENSTEIN
- SWITZERLAND ICELAND
- BOSNIA AND HERZEGOVINA
- PALESTINE MACEDONIA
- MOROCCO TUNISIA
- ALBANIA EGYPT
- GEORGIA MONTENEGRO
- SERBIA CHILE
- MAURITIUS SOUTH KOREA
- \*LEBANON MOLDOVA
- FAROE ISLANDS
- SINGAPORE VENEZUELA
- UNITED KINGDOM
- \*QATAR KOSOVO
- UAE UKRAINE\*



in 30 countries  
with Free Trade  
Agreements



# Türkiye's Economic Success and Investment Appeal

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Between 2003 and 2023, Türkiye attracted \$262 billion in international direct investment due to its strong economic performance, standing out in its region. Today, over 80,000 multinational companies operate in Türkiye, engaging in activities ranging from production and R&D to design and logistics, establishing Türkiye as a significant regional economic hub.

# STRATEGIC LOCATION

Working Hours  
Intersect with  
16 Time Zones

**PROXIMITY  
TO MAJOR MARKETS**  
1.3 billion people, \$10.3T  
import and \$30.6T GDP in  
Europe, MENA and CentralAsia  
at 4 hour flight-distance

**CONNECTIVITY**  
Turkish Airlines  
connects you to 349  
destinations in 130  
countries

**MANUFACTURING  
& EXPORT HUB  
FOR  
MULTINATIONALS**

**AS WELL AS  
MANAGEMENT, LOGISTICS,  
PROCUREMENT &  
TRAINING HUB FOR  
MULTINATIONALS**

**Cargill**

66 countries

**Microsoft**

70 countries

**Nestlé**

Production base  
for MENA

**BOSS**  
HUGO BOSS

Its largest production  
facility worldwide

**B/S/H/**

89 countries

**GE** GE Healthcare

22 countries

**RENAULT**

Exporting 75%  
of its production

**KNAUF**

80 countries

**TOYOTA**

Exporting 85%  
of its production

**Ford**

Exporting 87%  
of its production

**novo nordisk**

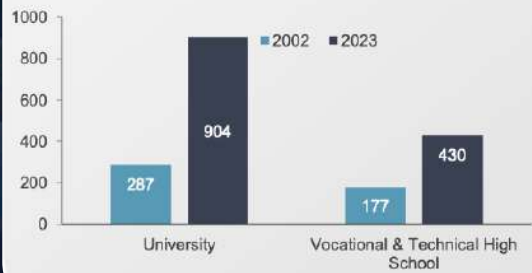
103 countries

**gsk**

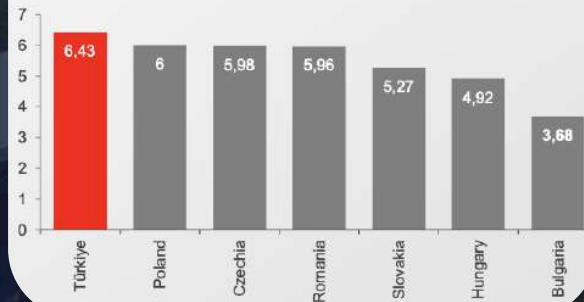
30 countries

# SKILLED AND COMPETITIVE LABO FORCE

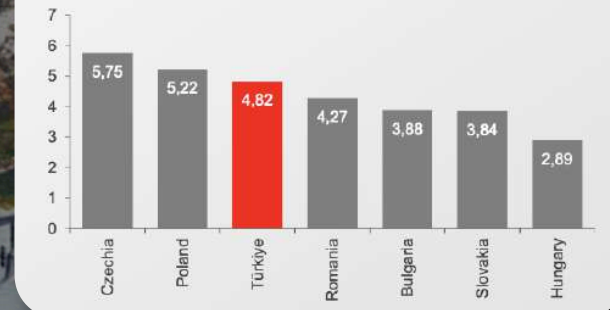
**ANNUAL NUMBER OF GRADUATES**  
(thousands)



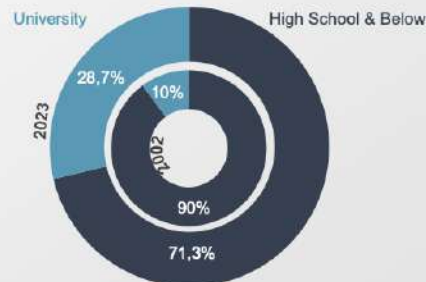
**AVAILABILITY OF QUALIFIED ENGINEERS**  
(10=Available; 0=Unavailable) 2024



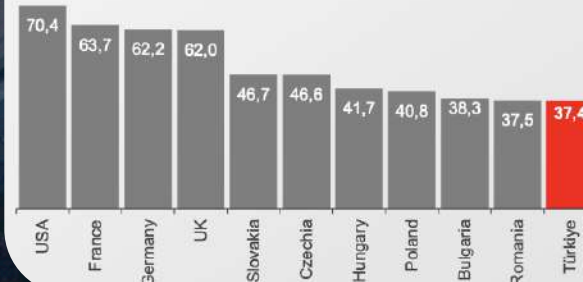
**AVAILABILITY OF COMPETENT SENIOR MANAGERS**  
(10=Available; 0=Unavailable) 2024



**LABOR FORCE BY EDUCATION LEVEL**

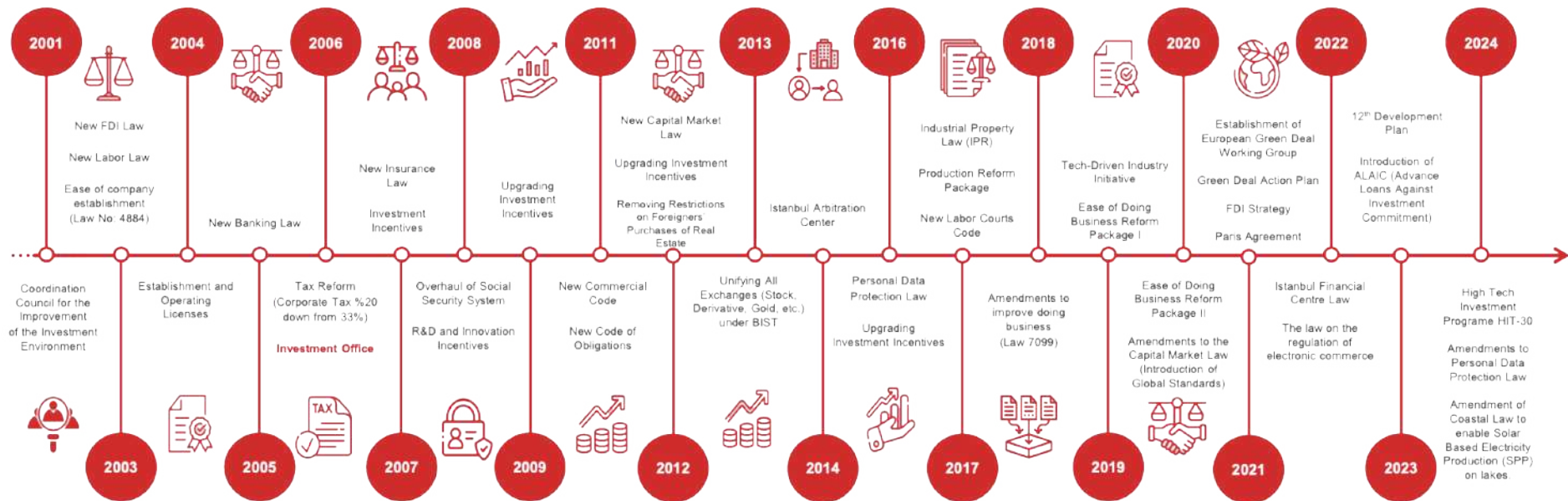


**COST OF LIVING INDEX 2024**  
(New York=100)



# REFORMS

Thanks to stability established over the last two decades, Türkiye remains committed to implementing **major reforms** nearly every 18-24 months across various areas.





# BUSINESS-FRIENDLINESS



**Protection of  
International Investors  
by FDI Law**

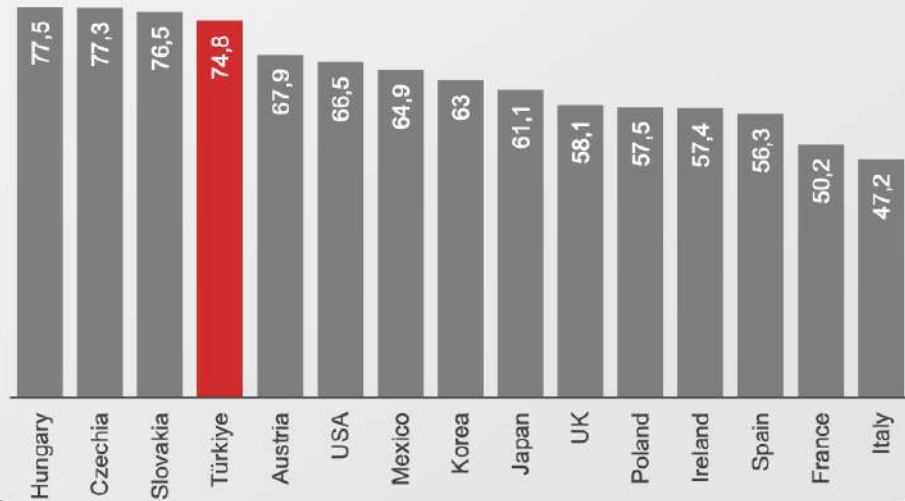


**Bilateral Investment  
Protection Treaties with  
89 countries**



**Treaties to avoid  
Double Taxation with  
93 countries**

**INTERNATIONAL TAX COMPETITIVENESS\*, 2024**  
(Index=100 as most competitive)



# LUCRATIVE INCENTIVES

## MANUFACTURING INCENTIVES

- ✓ Tax deduction & exemption +



## EMPLOYMENT INCENTIVES

- ✓ Payroll & Training support +



## R&D AND INNOVATION INCENTIVES

- ✓ Tax deduction & exemption +



## INCENTIVES FOR SERVICE EXPORTERS

- ✓ Tax deduction for exporting services in;

- Engineering
- Architecture
- Design
- Software
- Medical Reporting
- Accounting
- Call Center
- Datacenter
- Education
- Healthcare



## TECHNOLOGY DEVELOPMENT ZONES

- ✓ To support R&D
- ✓ Tax deduction & exemption +



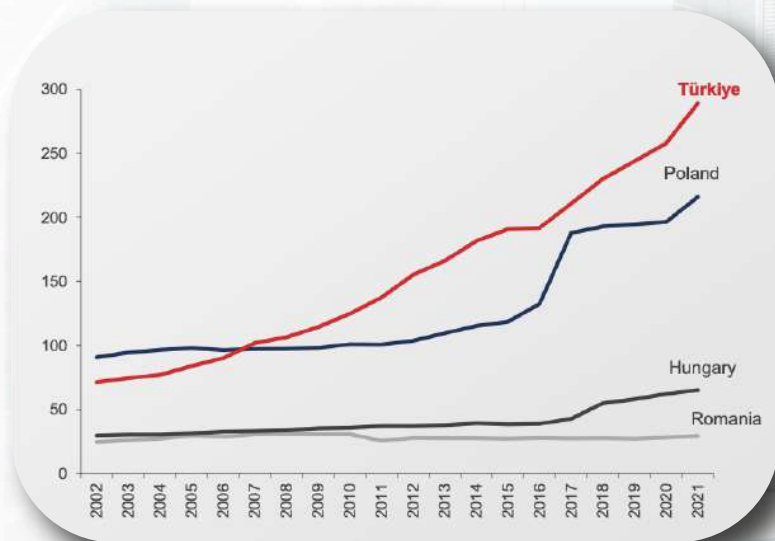
## EXCLUSIVE ZONES

- ✓ **Free Zones**  
Tax deduction & exemption +
- ✓ **Organized Industrial Zones**  
Developed infrastructure



# BENIGN R&D ECOSYSTEM

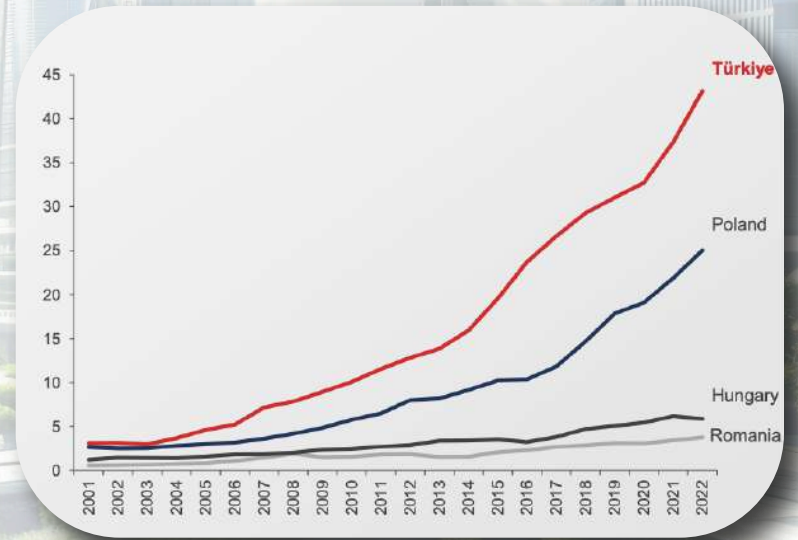
**NUMBER OF RESEARCHERS**  
(thousands)



**MORE THAN 700 INTERNATIONAL COMPANIES OPERATING IN TECHNOPARK AND R&D CENTERS**

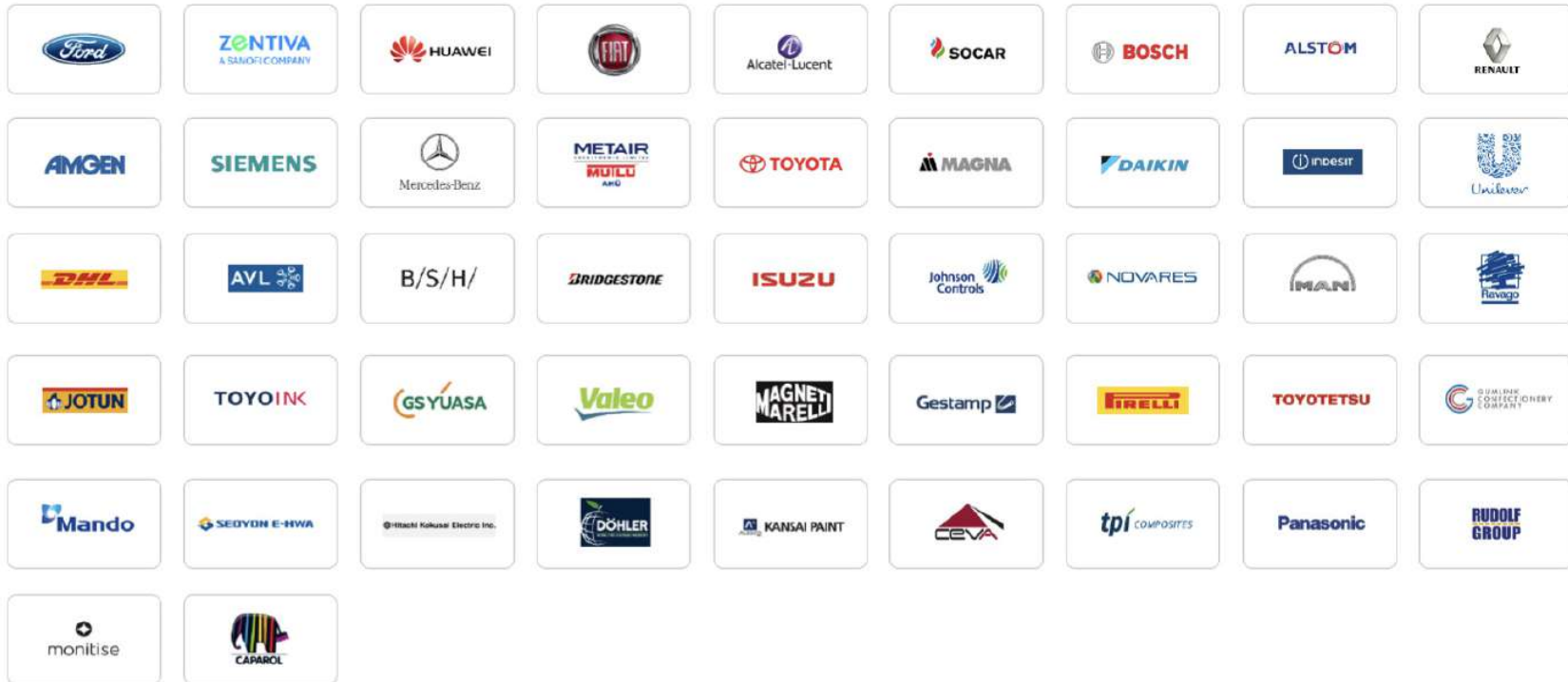


**INCREASING R&D SPENDING**  
(\$ Billion, PPP)

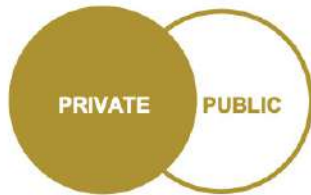


# BENIGN R&D ECOSYSTEM

## SELECTED INTERNATIONAL COMPANIES CONDUCTING R&D IN TÜRKİYE



# INVEST IN TÜRKİYE



**PRIVATE SECTOR APPROACH  
WITH PUBLIC SECTOR CAPABILITIES**



**A GOVERNMENTAL AGENCY  
REPORTING TO THE PRESIDENT**



**ACTING AS A  
SOLUTION PARTNER**



**CUSTOMIZED  
CONSULTING**



**BUSINESS  
FACILITATION**



**TAILOR-MADE  
DELEGATION  
VISITS**



**PARTNERSHIP  
DEVELOPMENT  
ASSISTANCE**



**COORDINATION WITH  
STAKEHOLDERS**



**SITE SELECTION  
SUPPORT**



**PROJECT LAUNCH**



**ONGOING SUPPORT**

# ZONING PLAN

Our project area has been officially approved as a **Biotechnology Specialized Organized Industrial Zone** by the **Ministry of Industry and Technology** with the decision [E-29966012-453.02-4349654/34](#), dated [December 28, 2022](#), and has been registered under **registry number 387**.



# CERTIFICATE

**BiOSB**  
BİYOTEKNOLOJİ İHTİSAS ORGANİZE SANAYİ BÖLGESİ



The successful completion of the **Environmental Impact Assessment (EIA)** process marks a significant milestone in our commitment to **sustainable development** and **environmental responsibility**.

This approval reinforces our dedication to adhering to the highest environmental standards while ensuring that our project contributes positively to both the **industry** and the **ecosystem**. With this step, we move forward with confidence, creating an innovative and eco-friendly biotechnology hub.

# OUR COMMITMENT TO SUSTAINABILITY

We are dedicated to integrating sustainable practices into every aspect of our project, ensuring a greener and more responsible future. Our key sustainability initiatives include:

- Increasing Renewable Energy Usage – Prioritizing solar and wind energy to predominantly power our operations.
- Achieving Zero Waste – Strengthening recycling and waste management strategies to significantly reduce waste production.
- Reusing Water – Implementing greywater and rainwater recovery systems to conserve vital water resources.
- Building Energy-Efficient Facilities – Constructing eco-friendly buildings with internationally recognized green certifications.
- Reducing Carbon Footprint – Leveraging innovative technologies to monitor and minimize carbon emissions.
- Supporting Sustainable Transportation – Expanding infrastructure for electric vehicles while promoting public transit and cycling.
- Creating Green Spaces – Designing lush, biodiverse landscapes to enhance both the environment and employee well-being.
- Developing Eco-Friendly Products – Innovating in packaging and production processes to lower environmental impact.
- Raising Awareness – Providing sustainability training to foster a culture of green consciousness among employees and stakeholders.
- With these initiatives, we aim to set a new standard in environmental responsibility, contributing to a more sustainable and eco-friendly future.





# STRATEGIC LOCATION & ACCESSIBILITY



**Biotechnology Valley** project is positioned in a prime location with seamless connectivity to key transportation hubs, ensuring efficient logistics and accessibility.

- Sabiha Gökçen International Airport – **20 km**
- Pendik Port – **20 km**
- Istanbul Airport – **69 km**
- Fatih Sultan Mehmet Bridge & Bosphorus Bridge – **40-50 km**
- Northern Marmara Highway – **15-20 km**
- Eurasia Tunnel & Marmaray – Approximately **40-50 km** from Biotechnology Valley

**This strategic positioning enhances global and regional connectivity, making it an ideal hub for biotechnology innovation and investment.**

# INFRASTRUCTURE ADVANTAGES

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## **Renewable Energy / Low Energy Cost**

Our commitment to renewable energy not only supports sustainability but also helps lower energy costs for our participants. By investing in solar and wind energy solutions, we ensure a reliable, cost-effective, and environmentally friendly energy supply, creating long-term economic and ecological benefits.



# Biotechnology Valley

## Project Schedule

First  
Application

Location  
Selection

Inclusion in the  
Investment  
Program

Zoning Plan  
Works

Infrastructure  
Works

Superstructure  
Works

Completion of  
the Project



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

**Thank you.**

[www.biosb.org.tr](http://www.biosb.org.tr)

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