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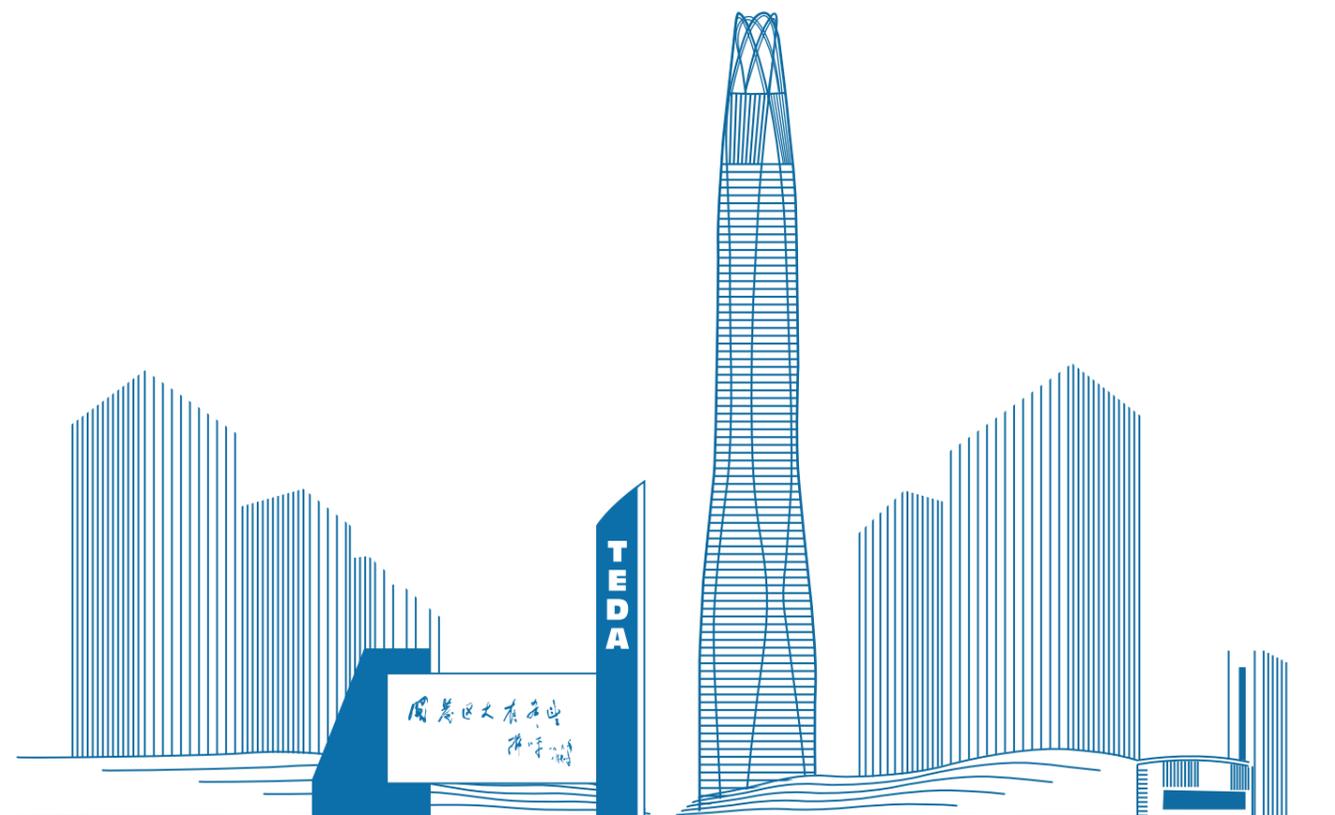
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# 天津 经济技术开发区 投资环境研究报告

## White Paper on Environment for Investment in Tianjin Economic-Technological Development Area



# Preface

Located at the intersection of the Bohai Sea Economic Rim and the Beijing-Tianjin-Hebei Metropolitan Area, the Tianjin Economic-Technological Development Area was established in 1984. It is among the first state-level economic and technological development zones approved for construction by the State Council. It provides strategic support and important economic engines for Binhai New Area and Tianjin, playing an irreplaceable role in their economic development and structural adjustment.

Since its inception, the Tianjin Economic-Technological Development Area has always been in first place in comprehensive strength among national development zones; its economic output is close to one-sixth of that of Tianjin City. As China's economy has entered a "new normal", the Tianjin Economic-Technological Development Area relies on its unique location and excellent brand value and is committed to the transformation and upgrading of industry, constantly encouraging and promoting innovation and start-up activities. Currently, the Tianjin Economic-Technological Development Area has formed nine advanced manufacturing-oriented industrial clusters. These have a strong industrial cohesion and capacity for growth with a sound industrial chain and strong clustering effect.

The Tianjin Economic-Technological Development Area rests near the sea, and therefore benefits from saltwater fishing and the ease of marine transport. It has been a point of convergence and gathering of merchants since ancient times, and it has a long tradition of business and trade. Today, with its efficient high-quality government services and a good investment environment, the development zone still attracts internationally influential and competitive enterprises to settle and invest there.

Shanghai Deloitte Tax Limited (hereinafter referred to as "Deloitte", or "we", or "us") is honored to accept the request of the Management Committee of Tianjin Economic-Technological Development Area to utilize our professional methods of investigation and

analysis in order to offer investors this White Paper on the Investment Environment of Tianjin Economic-Technological Development Area from the perspective of an objective third party.

This report results from qualitative and quantitative analysis of surveys and in-depth management-level interviews for enterprises located in the Tianjin Economic-Technological Development Area. This report reflects the investment environment of the Tianjin Economic-Technological Development Area from the following five dimensions on their importance and satisfaction score.

- Government Policies and Services
- Business Collaboration Environment
- Infrastructure
- Human Resources
- Living Environment

At the same time, this report, combined with our interpretations of the Tianjin Economic-Technological Development Area's development plan and the features of government services, has revealed the advantages and growth prospects of the investment environment in the Tianjin Economic-Technological Development Area, which mainly are:

- Stable government policies and attentive government services.
- Active leading industries and innovation-driven development strategies.
- Excellent location advantages and a comfortable living environment.

With the in-depth development of transformation and upgrading of China's economic growth model, Tianjin Economic-Technological Development Area constantly enhances its soft and hard power by setting the "Thirteenth Five-Year Plan" as its strategic starting point, making it favored by various enterprises and helping it to maintain its place as the most attractive investment zone in China and the Asia-Pacific region.

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# I. Overview

## 1.1 • Overview of Tianjin Economic-Technological Development Area

**Tianjin**, as one of the four direct-controlled municipalities of China and an important city in the Bohai Sea Economic Rim, is playing an important role in the five strategies which are vigorously promoted by China, respectively “the Coordinated Development of Beijing-Tianjin-Hebei Area”, “the Belt and Road Initiative”, “Free-Trade Zones”, “Development and Opening-up of Binhai New Area”, and “National Independent Innovation Demonstration Zones”. In 2015, China (Tianjin) Pilot Free Trade Zone (hereinafter referred to as “FTZ”) was officially set up. Tianjin has long been putting the concept of openness toward the outside world into practice. It has also been at the forefront of China’s various types of policy reform, innovation, and development of strategic initiatives.

**Binhai New Area** is located in the eastern coastal area of Tianjin, at the intersection of the Bohai Sea Economic Rim and the Beijing-Tianjin-Hebei metropolitan area. With a land area of 2,270 km<sup>2</sup> and 153 km of coastline, it is known as “the third growth pole of the Chinese economy.”

**Tianjin Economic-Technological Development Area** (hereinafter referred to as “TEDA”) Established in 1984 with the approval of the State Council of the People’s Republic of China, TEDA was among the first batch of national economic and technological development zones. Since 1997 when the Ministry of Commerce started a comprehensive appraisal on all national-level development zones, it has topped the list. After years of development, the development zone has expanded from the original 33 square kilometers to more than 400 square kilometers and has formed a new development pattern of “one zone with ten parks” by developing ten parks of clear industrial orientation and development direction. In 2010, at the first World Parks Cooperation Forum, it was recognized as “China’s Most Attractive Economic Park for Investment” and ranked first among the list of China’s AAA industrial parks published by China Knowledge(Singapore Zhongsheng Group). In 2013, TEDA be rated as “China’s Most Dynamic Region” by the United Nations Industrial Development Organization (UNIDO).



### Development Milestones of TEDA

The Ministry of Commerce started the first comprehensive appraisal on investment environment of all national development zones, and TEDA topped the list.



The West District of TEDA was formally approved by the State Council. TEDA has opened new business processes.

Samsung Group became the first 100-billion-yuan enterprise group in TEDA.

The base of FAW – Volkswagen in North China was located in TEDA.

1984	1997	2000	2004	2009	2011	2012	2014
With its “Approval of The Report of further Opening-up of Tianjin”, the State Council approved the establishment of the Tianjin Economic-Technological Development Area.		Tianjin FAW Toyota Motor Company, Ltd. was established in TEDA.		TEDA started to take charge of the development of the Nangang Industrial Zone with the approval of the Tianjin Municipal Party Committee and Government, building a world-class petrochemical industrial base.		TEDA Modern Service-industry District (MSD) Come into Use	

## 1.2 • Characteristics of the Tianjin Economic-Technological Development Area

### 1 With its unique geographical advantages and its brand effects, it has become an important gateway for attracting investment.

Tianjin City is located in the eastern coastal area of northern China, bordered by Beijing on the west and Bohai Bay on the east. It is on the eastern point of the Eurasian Land Bridge. TEDA is 40 kilometers east of the downtown area of Tianjin and adjacent to Tianjin Port, an important international port in northern China. Since 1997 when the Ministry of Commerce started a comprehensive appraisal on the investment environment of all national-level development zones, it has topped the list. TEDA has become an important window for economic globalization and regional economic integration due to its unique geographical advantages and excellent brand value.

### 2 A very attractive soft environment has been created by relying upon advanced hardware and facilities support.

The Tianjin Economic-Technological Development Area was among the first batch of the national-level development zones approved by the State Council. It has a convenient transportation network, stable energy supply, a sufficient supply of land, and other infrastructural facilities to provide basic guarantees for the operation of enterprises. TEDA relies upon its advanced and sound hardware and supporting facilities and has been focused on the city and industry integration, sustainable development, intelligent platforms, industrial chain clusters, and other areas, thus creating a very competitive soft environment.

### 3 Active implementation of building a service-oriented government, providing a full array of services to enterprises.

TEDA is China's first industrial park with a "one-stop services" concept. TEDA's Administrative Committee always upholds and implements the sense of service in business, providing government support in all stages of enterprise development through a "life-long service" system, including: project solutions, business registration, construction and operations, honoring of policies, upstream and downstream coordination, talent supply, etc.

### 4 A strong industrial base, promoting industrial restructuring and upgrading.

After 30 years of development, TEDA has become an industrial park with a high-end industrial agglomeration. It is a principal gathering point for advanced manufacturing and high-end service industries in Tianjin and even northern China. At present, TEDA has formed nine leading industrial clusters including electronics, automobiles, equipment, petrochemicals, food, biomedicine, new energy and new materials, aerospace, and modern service industries. It has over 5,000 foreign-funded enterprises and 90 Fortune 500 companies.

During the "Thirteenth Five-Year Plan" period, TEDA will build a "5+1+N" modern industrial system. Through the integration of a good internal industry chain, a technology chain, and living ecology chain, it promotes traditional industry transformation and innovation to bring new opportunities for investors.

### 5 Innovation-driven development strategy to stimulate the vitality of the industrial park's development.

In recent years, TEDA has attached great importance to the creation of an environment of scientific and technological innovation in the park and has encouraged scientific and technological enterprises to innovate independently and create an industrial environment for the development of high-tech enterprises. Additionally, TEDA has formulated a set of science and technology policy systems, including the promotion of industrialization of scientific and technological achievements, the attracting of scientific and technological talent, the encouragement of entrepreneurship and protection of intellectual property, and the promotion of the construction of a number of multi-level and specialized scientific and technological innovation carriers, as well as a technology services platform. Technological innovation carriers include: Science and Technology Development Center, TEDA Bio-pharmaceutical Building, Tianjin University Science Park, etc.; technology service platforms include Tianjin Binhai New Area IC Design Service Center, an IT Yunyue cloud service platform, and a supporting service platform for high-end intelligent equipment research and development.

Location Map of Tianjin Binhai New Area



## 1.3 • Economic Development

### Gross Regional Product

From 2009 to 2015, TEDA's gross regional product has maintained steady growth. In 2015, the gross product of TEDA reached RMB290.56 billion, a relative increase of 10.4%. It accounted for 31.3% of the total gross product for Binhai New Area and 17.6% of that of Tianjin City. TEDA is the leading region for economic development in Tianjin.

### Regional Economic Structure

After more than 30 years of development, TEDA is an important locus for the development of China's advanced manufacturing industry. Secondary industries have always been dominant in the economic structure. In 2015, secondary industries gave an added value of RMB216.46 billion, a comparable growth of 10.8%, which accounts for 74.5% of gross regional product. Tertiary industries gave an added value of RMB74.1 billion, a comparable growth of 8.8%, which accounts for 25.5% of the gross regional product.

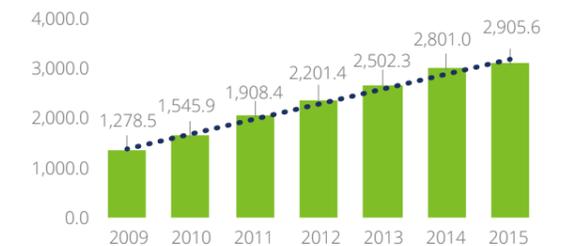
In 2015, the total foreign and HMT output accounted for 69.8% of the total output of above-designated-scale industries in all areas and domestic enterprises accounted for 30.2%. Regarding growth rate, in recent years, domestic-funded enterprises have accounted for a comparatively large amount of the rapid growth in the value of domestic industrial output.

In 2015, the value of total above-designated-scale industrial output for TEDA was RMB820.08 billion, accounting for 52.8% of the total for Binhai New Area and 29.3% of the total for Tianjin. Financial revenue totaled RMB49.98 billion. Investment in fixed assets amounted to RMB91.0 billion. Key industries in the TEDA include electronics, automotive, petrochemical, equipment, food, new energy and new materials, biomedicine, aerospace, etc. Among these, automotive, equipment and petrochemicals, electronics, and new-generation IT comprise the industrial pillars of the development area. Their output is large comparatively, and they have maintained a steady trend of growth. Additionally, the output value of new energy and materials, biomedicine, and aerospace, was lower than several other major industries but their year-on-year growth rates respectively reached 6.9%, 20.9%, and 47.3%.

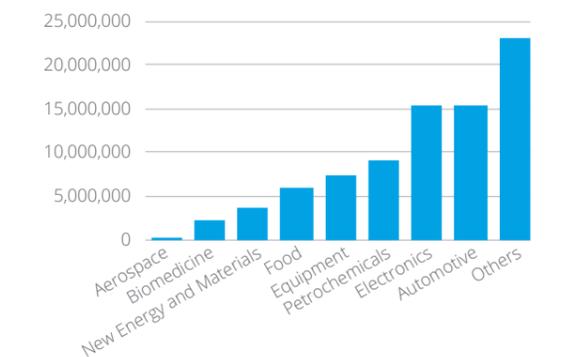


Data source: 2010-2015 TEDA Sustainability Report, Deloitte Analysis

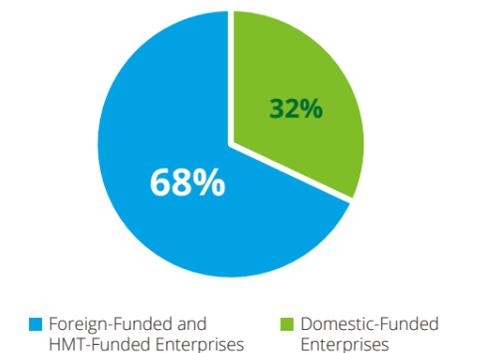
2009-2015 Regional Gross Product for TEDA  
In RMB 100 million



2015 TEDA Industrial Output Value of Key Industries  
In RMB 10 thousand



2015 Portions of Industrial Output Value of the Above-Designated-Scale Industries in TEDA



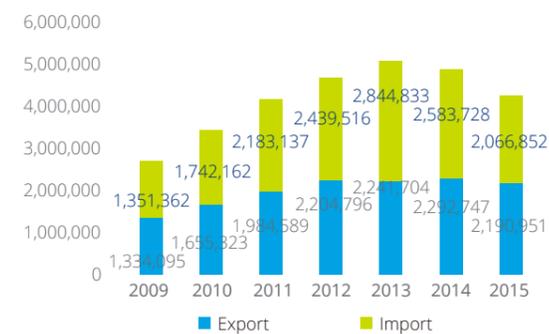
## 1.3 • Economic Development (Continued)

### Foreign Trade

From 2010 to 2013, TEDA's total imports and exports continually grew, with an average annual growth rate of 17.8% and a year-on-year growth rate of more than 10%. 2015 exports amounted to \$21.91 billion, accounting for 67.6% of that of Binhai New Area and 42.8% that of Tianjin.

The major countries and regions to which TEDA exports include the United States, ASEAN, the EU, the Republic of Korea, Vietnam, Hong Kong, Japan, the United Arab Emirates (UAE), Malaysia, and Brazil; particularly, exports to the UAE, the EU, Malaysia, and Brazil grows rapidly.

**2009-2015 TEDA Total Imports and Exports**  
In USD 10 thousand



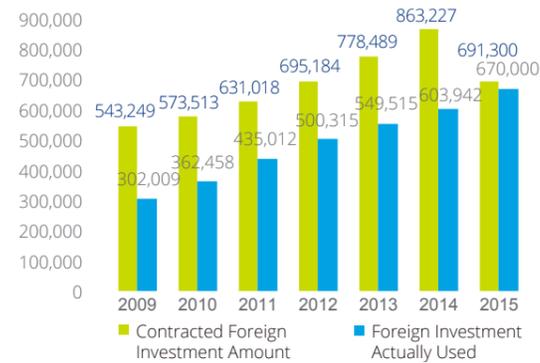
### Foreign Investment

As of 2015, TEDA has attracted a total of 5,581 foreign investment projects. The cumulative total of foreign capital actually used is USD53.12 billion, 90 multinational Fortune 500 companies have invested in 273 projects in TEDA.

From 2009 to 2015, the contracted foreign investment capital and the amount of foreign investment capital actually used entered a doubling trend of increasing. In addition to Hong Kong and the British Virgin Islands, which are two common "transit" points for foreign investment, Japan, the United States, and South Korea constitute some of the main sources for foreign investment enterprises in TEDA. The major areas for foreign investment include computers, petrochemicals, real estate, general equipment manufacturing, automotive manufacturing, science and technology promotion and application services, business services, manufacturing for telecom and other electronic equipment, wholesale trade, special equipment manufacturing, manufacturing of chemical raw materials and chemical products, etc.

Data source: 2010-2015 TEDA Sustainability Report, Deloitte Analysis

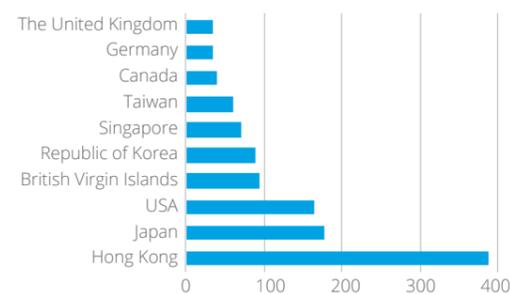
**2009-2015 TEDA Foreign Investment Amount**  
In USD 10 thousand



### Development of Domestic-funded Enterprises

In recent years, with the development of international and domestic markets as well as the improvement in technology and quality of China-funded enterprises, more and more domestic-funded enterprises have no longer relied solely on competitiveness of low costs but turned to seek long-term cooperation with more globally influential development areas. With the support of the Tianjin Development Area, as of 2015, TEDA has accumulatively 12,977 registered domestic enterprises, registered capital totaling RMB427.5 billion. Among these enterprises, wholesale and retail trade companies, scientific research and technical service enterprises account for nearly half. In 2015, 1,672 domestic-funded enterprises were registered in TEDA, and the majority of these were companies in advanced manufacturing and modern services industries.

**Top 10 Countries and Regions for TEDA Enterprises**  
Number of firms



## 1.4 • Overview of TEDA and its Sub-Zones

### One Zone with Ten Parks in TEDA

After 30 years of rapid development, upon the foundation of TEDA East (the original area), one after another, Yatsen Scientific Industrial Park, Micro-electronics Industrial Park, Modern Industrial Park TEDA WIT VALLEY, TEDA West Zone, Nangang Industrial Zone, South Emerging Industries Zone, TEDA Middle Zone and FAW-Volkswagen North China Base were all developed and constructed. Covering an overall planned area of 408 km<sup>2</sup>, TEDA forms a center for modern service industries, a base for high-level modern manufacturing, a transformation base for high-tech research and development, and a modern and livable eco-city.

### TEDA East (the original area)

TEDA East was the original area. After 30 years of development and accumulation, a modern service-industry district (MSD), cloud computing industry base, service outsourcing park, international biomedical park, R&D incubation park, bonded logistics center (Type B), and a number of other major facilities have been established and constructed. With a firm foundation on a complete industrial platform, TEDA East has actively invested capital into construction. It has now formed a unified modern urban living area composed of a set of education, health, sports, and recreational facilities, thereby shaping its image as a high-end business district.

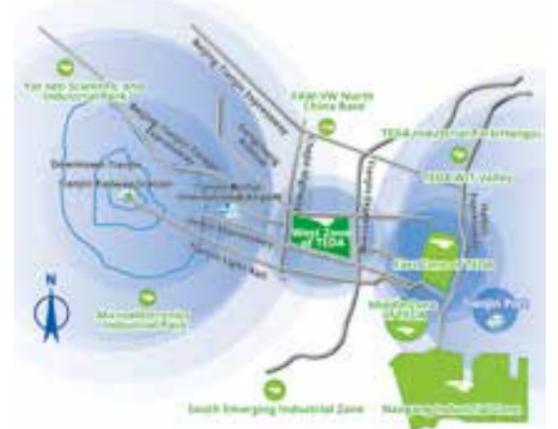
### TEDA West

The total area planned for TEDA West is 48 km<sup>2</sup>. It is located between TEDA East and the center of Tianjin. Relying on the advantages of industrial agglomeration already formed by TEDA East, TEDA West also utilizes the Jinbin Expressway, Jingjintang Expressway, light railway, and other transportation networks. It has become an industrial gathering place extended from the center of Tianjin, and an important advanced manufacturing industry base for TEDA. Key industries include automobile, equipment manufacturing, aerospace, new energy and materials, biomedicine, electronic information, etc. So far, TEDA West has already attracted more than 170 enterprises. In 2015, their industrial output value reached RMB180.17 billion, a year-on-year increase of 26.3%.

### Modern Industrial Park

Located in the core area of the north of Binhai New District, TEDA WIT Valley is an extension of TEDA into the north of Binhai New Area, covering a planned area of 15 km<sup>2</sup>, forming unique industrial advantages. It is committed to becoming a leader in advanced manufacturing and high-tech industries by strengthening itself with companies from the tertiary industry that engage in R&D and have a culture of science and technology. At the same time, it is also carrying a high level of R&D capability and a mission as a creative pilot area.

### Location Map of TEDA



### TEDA WIT Valley

TEDA focuses on comprehensive development of ecological, cultural and scientific and technological environments, striving to build itself into a new economic hub, as well as a new science and technology center. Covering an area of 5.18 million m<sup>2</sup>, TEDA WIT Valley has a total planned construction area of 6.3 million m<sup>2</sup>. The Valley lies to the east of Hangu New Area and the south of the Sino-Singapore Tianjin Eco-city, and locates near the TEDA Industrial Park. It features one core area surrounded by several supporting zones, which offers integrated services such as R&D, exhibition, commercial hotels, leisure and entertainment, so as to meet the needs of companies in the Valley and regional talents with professional supporting facilities.

### FAW-Volkswagen North China Base

Construction on FAW-Volkswagen North China Base officially began in May 2016. With a total planned area of 10.8 km<sup>2</sup>, it is committed to becoming a comprehensive industrial foundation for vehicle production in North China.

Source: TEDA Administrative Service Platform

## 1.4 • Overview of TEDA and its Sub-Zones (Continued)

### TEDA Middle Zone

The Middle Zone was merged into TEDA in the beginning of 2014. Its name was changed from the original “Textile Economic Zone” to “TEDA Middle Zone”. The total area planned was 58 km<sup>2</sup> with 48 km<sup>2</sup> of the industrial area and 10km<sup>2</sup> of the residential area. TEDA Middle Zone adheres to the characteristic development of downstream petrochemical industries. At the same time, it extends the main industrial advantages of TEDA, accelerates the construction of diversified industrial systems, and is gradually introducing strategic emerging industries of materials, biomedicine, high-end equipment manufacturing. The representative corporates are: Tianjin Huaheng Packaging Materials, Tianjin Smestar International Industrial Park, Sinomine Overseas Geo-Tech Services (Tianjin), Tianjin Yuanshun Logistics Group, Tianjin Zhengbiao Jinda Cable. During the “Thirteenth Five-Year Plan” period, TEDA Middle Zone will be gradually nurtured to become an important base for continuing development of advanced manufacturing industries within the Development Area.

### Nangang Industrial Zone

Located in the southeast of Binhai New Area, Nangang Industrial Zone is an important part of Tianjin’s development strategy of “Two Cities, Two Ports”, covering a total planning area of 200 km<sup>2</sup>. It is committed to becoming a TEDA branded world-class integrated zone for heavy chemical industries and port, and a petrochemical hub port for North China.

The park relies on a solid industrial base, convenient transportation, diversified R&D, and advantageous human resources. It is committing to the building of a petrochemical industry chain led by the refinery and ethylene industry and the construction of a four-line circular economy industrial chain including petrochemical, marine chemical, fine chemical industry and energy utilization. Currently, the park has invested over RMB 163 billion and signed a total of 61 projects, six of them with an investment of over RMB 10 billion.

During the “Thirteenth Five-Year Plan” period, while the park is exerting full effort on the development of the petrochemical industry, it will also vigorously promote port logistics, equipment manufacturing, and production services in order to create a world-class petrochemical industry base.

### South Emerging Industries Zone

Located in the southwest of Binhai New Area, the South Emerging Industries Zone began construction in 2012, with a planned area of 26 km<sup>2</sup>. It will focus on the development of the automobile, electronic information,

equipment manufacturing, new energy and materials, and nutritional health industries.

### Micro-electronics Industrial Park

The Microelectronics Industrial Park, the closest TEDA’s sub-zone to the center of Tianjin, was established in 1996. The park has become the largest production base in China for Samsung Group from South Korea, forming an electronic information industry cluster with an annual output value of multi-billion yuan, as well as an important base for the electronic information industry in TEDA.

In the future, on the basis of maintaining the steady development of Samsung Group, the park will focus on building a new technology platform, aiming to build a national high-end chip and civil-military integration manufacturing project transformation base, leading high-tech innovative small and medium enterprise clusters, and delivering data services, e-commerce, urban distribution and other emerging services. It is committed to shape a vitality area with innovation as the core competitiveness, driving by the double wheel of advanced manufacturing and modern services.

### Yat-sen Scientific Industrial Park

The Yat-sen Scientific Industrial Park was established in 1993 and is located in the middle of the “Beijing-Tianjin high-tech industry corridor”. It enjoys the advantage in transportation infrastructure. At present, the park has formed three major industrial clusters: the electronics industry cluster represented by Tianjin Samsung SDI, the automobile industry cluster represented by Tianjin Pyung Hwa Auto Parts and Mando Tianjin Automobile Parts, and the new materials industry cluster represented by Gurit (Tianjin) Composite Materials. In the future, the park will fully promote industrial transformation and development, facilitating coordinated development with Beijing and Tianjin.



## II. Government Policies and Services

# Introduction

Stability and transparency in government policies and efficiency and fairness in government services constitute TEDA's reliability guarantee for growth. They also promote an important driving force in its industrial upgrading, innovation, and development.

TEDA promotes advanced manufacturing, modern service industries, and strategic development of new industries through the introduction of a series of effective business policies. Additionally, TEDA adheres to the concept of "service-oriented government", providing targeted and professional services for enterprises in order to create a transparent, open, and innovative Environment for Business Collaboration.

According to Deloitte's interviews and the findings of its research, a condition of mutual trust and friendly relations has been formed between the TEDA government departments and enterprises. High-quality government services have been brought to all aspects of enterprise development, creating a good investment opportunity and business experience to merchants.

### Corporate comments

Standardized government service systems and stable government policies are important considerations for many business locations. This is because they will provide assurances for long-term business plans and industrial development, which is conducive to sustainable development for business. From initial establishment to the follow-up process, TEDA has always given us the confidence and sense of security in these two areas.

In addition, TEDA's government personnel have provided a high level of quality, and their efficiency is also high. They implement a mode of operations described as "a single receiving window, a one-stop approval, and one package service." This has allowed the enterprise to save a lot of time and capital costs such that it can concentrate on doing a good job in its main business operations and expand its market.

— Tianjin Lizhong Alloy Group Company, Ltd.



## 2.1 • Government Policies and Services – Research Summary

### Importance/Satisfaction of This Aspect

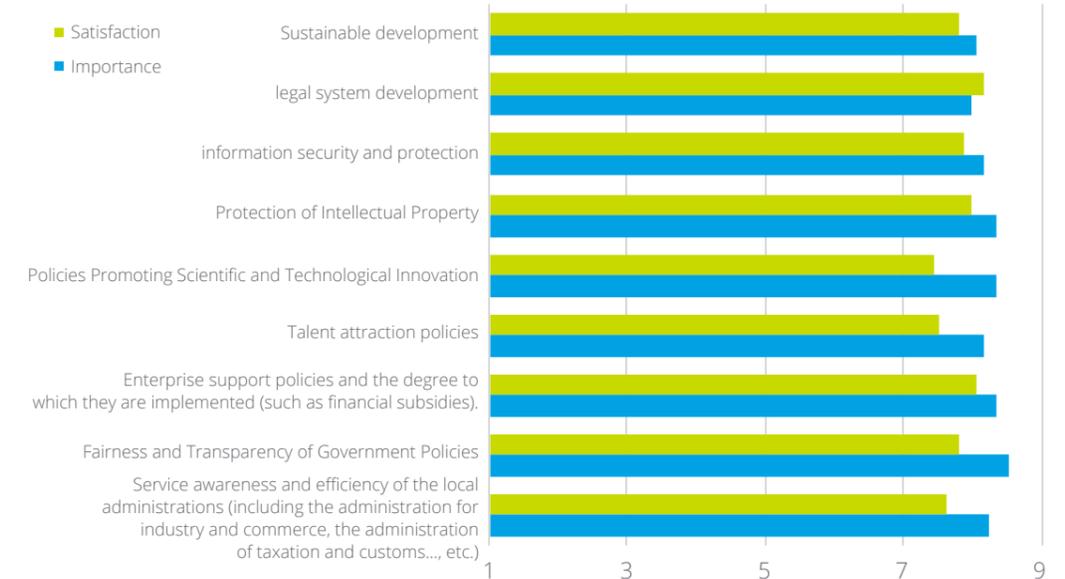


### Feedback on the Questionnaire for This Aspect

- The importance score of this aspect is 8.5 points.
- The satisfaction score of this aspect is 7.5 points.
- In this aspect, what participants believe to be the most important are: fairness and transparency in government policies; enterprise supporting policies and the degree to which they are implemented; and policies to promote scientific and technological innovation and the protection of intellectual property.
- In this aspect, participants say that they are most satisfied with the progress in the legal system, the implementation of enterprise support policies, and the protection of intellectual property.

### Government Policies and Service

#### Segmentation of Importance/Satisfaction



## 2.2 • Industrial Policies

### “TEDA Manufacturing Development Fund”

Advanced manufacturing industries are the leading industries of TEDA. The TEDA government has gone to great effort in encouraging the development of its manufacturing industries. In 2008, TEDA formulated the Interim Provisions on the Promotion of Development in Advanced Manufacturing Industries in TEDA, providing a variety of supporting policies on the establishment, capital increase, and various business processes of manufacturing enterprises. The government also gives great encouragement to enterprise innovation, technological research and development, and high-end talent acquisition and training.

At the operational level, TEDA (www.teda.gov.cn) provides detailed guidelines of honoring policies. Enterprises can go directly through to the website to learn about the policies and related executive information. Meanwhile, enterprises can also use the website for online applications, online consulting and status inquiries, and other such services.

Examples of related policies on TEDA's Promotion of the Development of Advanced Manufacturing Industries

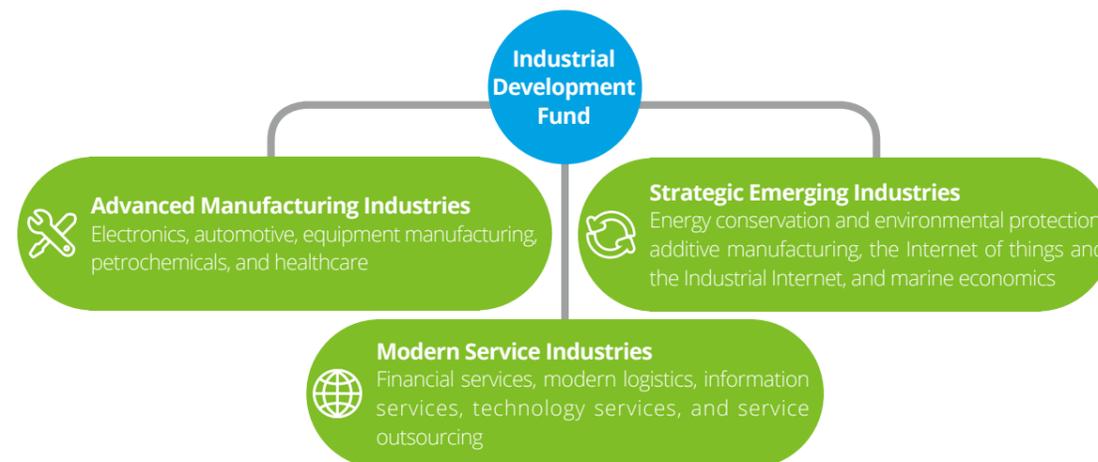
Support for New Establishment of Manufacturing Enterprises				
Construction Support	Rental Subsidies	Business Support		
Support for Enterprise Expansion				
Capital Increase Support	Capital Increase Incentives	Incentives for Starting New Business Lines		
Policies for Promoting Sustainable Development				
Incentives for Collaboration Matching	Loan Discounts	Financial Contribution Incentives	Talent Acquisition and Training	R&D Center Support

### “TEDA Modern Service Industry Development Fund”

The TEDA Administrative Committee issued Regulations for the Promotion of Modern Service Industries Within TEDA. A development fund was set up for the development of an economic headquarters, along with economy, banking, professional services, logistics, factor market, trade and cultural exhibitions within TEDA.

### Support Plan for Energy Conservation and Environmental Protection

In order to promote sustainable development, TEDA will develop strategic emerging industries, including energy-saving and environment-friendly industries, new energy and new materials. In the Interim Provisions for the Promotion of Energy Conservation and Environmental Protection Within TEDA, TEDA will provide incentives and support to enterprises that optimize the utilization of water resources and energy and protect the environment.



Source: ① Interim Provisions on the Promotion and Development of Advanced Manufacturing Industries in TEDA  
② Provisions on the Promotion and Development of Modern Service Industries in TEDA

## 2.3 • Encouraging Innovation Policies

To further optimize the environment of innovation and technological entrepreneurship within TEDA, the TEDA government has set up the “TEDA Technology Development Fund”. In addition, the area has also implemented a series of policies to encourage innovation in order to turn TEDA into an internationally influential technological innovation park.

### Support for High-Tech Enterprises and R&D Institutions

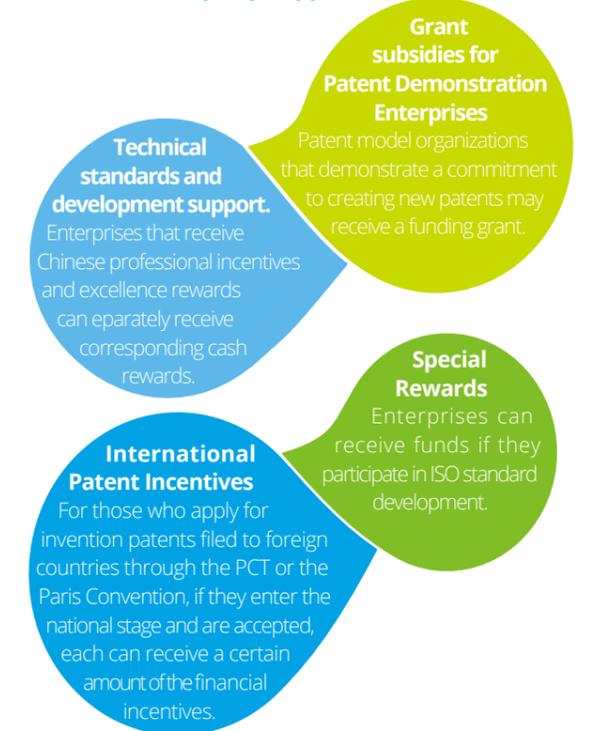
#### Support for High-Tech Enterprises

- **Support for Incubation Funds**: TEDA has invested RMB15 million annually for the set-up of incubation funds. For key technology enterprises or projects that focus on the development of technologies with significant potential for growth, TEDA offers a maximum of RMB500,000 for support from incubation funds, if approval is given.
- **Special Funds for the Identification of High-Tech Enterprises**: Each year, TEDA invests RMB40 million to create special funds for the identification of high-tech enterprises. For state-level high-tech enterprises that have passed review or re-accreditation, each will be awarded RMB100,000.
- **Matching Rewards for Science and Technology Projects**: Matching financial incentives are given to high-tech enterprises that had products or technological studies and developments listed in the national and Tianjin key science and technology plans and corresponding industrial projects in the previous year.

#### Support for R&D Institutions

- **Enterprise Technology Center and Engineering Center Rewards**: In order to guide and encourage qualified high-tech enterprises to set up enterprise technology centers or engineering (technology) centers, those enterprises that were approved will be granted a RMB500,000 reward for the establishment of such centers.
- **Independent R&D Support Funds**: Those technology centers or engineering (technology) research centers, on the city level or above, that reach a level of R&D strength to achieve domestic and global leadership, and fill gaps in industrial technology fields in TEDA, are eligible for no more than RMB3 million in development support funds upon receiving approval from the science and technology department of the competent organization within three years.

### Intellectual Property Support



Encouraging Venture Capital Funds	Exemplary Policy
Establishment of special funds	TEDA will establish RMB100 million as a venture capital development fund, specifically used to encourage and support venture capital and venture capital development.
Risk Subsidies	Venture capital enterprises that invest in TEDA's small and medium technology enterprises can access a special risk subsidy of 10% of the actual investment amount by way of investment in currency.

<b>Support for Technology Finance</b>	<b>Credit guarantee</b> : TEDA establishes a special-risk loan guarantee of RMB30 million. High-tech enterprises that have received approval can obtain a financial guarantee service for working capital. <b>Loan discounts for major industrial projects</b> : The major industrial projects implemented by approved high-tech enterprises can apply for interest subsidy support in regards to loans of up to RMB50 million to expand their scale of production.
<b>Science and Technology Rewards</b>	<b>Intellectual Property Model Enterprise Rewards</b> : TEDA has set up “Intellectual Property Model Enterprise Rewards”. Every year, 25 intellectual property model enterprises are selected, and each unit can receive RMB100,000 to 200,000. <b>Science and Technology Rewards</b> : High-tech enterprises and R&D institutions that win National Science and Technology Awards and first-place Tianjin Science and Technology Awards can receive the corresponding amount of funds from TEDA.

Source: ① Provisions for the Promotion of High-Tech Industries Within TEDA (Trial)  
② Interim Provisions for the Encouragement of Venture Capital Investment Within TEDA

## 2.4 • Talent Policies

The TEDA government aims to build a comprehensive platform for talent development and implement the talent strategy by setting up the “TEDA Special Funds for Talent”. The government has also introduced a series of incentive policies geared toward talent acquisition and training.

### Leading Talents

- **Housing Subsidies:** Leading entrepreneurial talents can receive a maximum purchase subsidy of up to RMB1 million and financial relief of RMB200,000 if they buy a home for their own residence in the area. Leading entrepreneurial talents in technological R&D can live in top-talent apartments for free, or enjoy rental subsidies.
- **Spouse and child resettlement:** The handling of residency, social insurance, etc., can be expedited for the spouses and children of leading talent, and their children may attend the nearest school.
- **Support for research funding:** Leading entrepreneurial talents who meet certain selection criteria may receive RMB1 million in the initial stage of investment into development and industrialization.

In order to more effectively gather and utilize talents, TEDA is committed to the establishment of three service platforms to promote talent development.



#### Construction of a public service platform for human resources:

Providing public human resources services through government-owned talent service agencies.



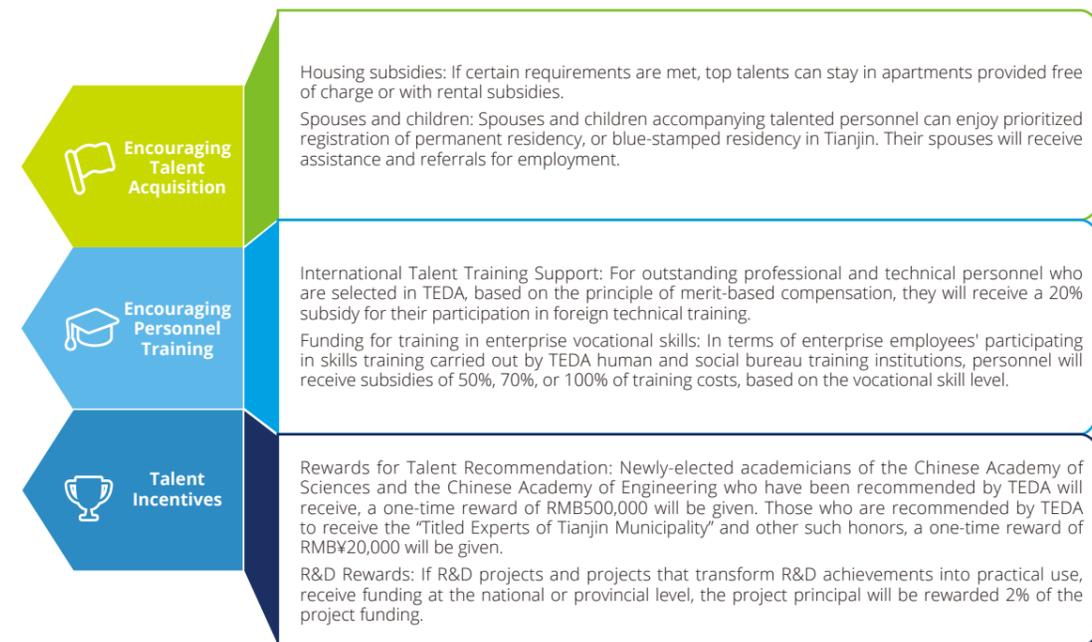
#### Robust professional services platform:

With high-level domestic and international intermediary talent service agencies moving in and clustering, TEDA will provide robust, complementary and professional talent services.



#### Creation of a training platform for highly skilled personnel:

Enterprises shall play a major role and vocational and training institutions shall lay the foundation for cultivating highly skilled personnel, tightening the links between education and corporate training. Thus, a “dual-system” training framework shall be established under the support of the government and society.



Source: ① Provisions for the Acquisition, Training, and Rewarding of Talent Within TEDA ② Interim Provisions for the Acquisition of Leading Talent Within TEDA ③ Implementation of Opinions on the Comprehensive Construction of a Talent Base for TEDA ④ “TEDA’s Twelfth Five-Year Plan for Talent Acquisition”

## 2.5 • Enterprise Services in the Park

TEDA actively builds a soft environment for investment, diligently developing structures for professional and personalized services for various enterprises. TEDA provides linkages in telecommunications, marketing, regulations, supporting facilities, logistics, finance, talent acquisition, technology, and business services, which are representative of the “nine new linkages” in its network of supporting services. These are used to create an industrial park that serves as a flagship for the best soft environment of all of China’s industrial parks.

Meanwhile, TEDA actively integrates service resources through “Internet +” means, establishes innovative administrative service platform, and precisely understands tenant needs based on big data analysis to provide professional, tailored and well-targeted services for enterprises and residents and improve experience and satisfaction of government services. At the 2016 award ceremony of “Influence China”, TEDA Administrative Committee won the 2016 Local Government Innovation Award for its success in building an “Internet + Administrative Service” platform.

### Adopt Innovative Administrative Management Approach and Expedite Reforms to the Administrative Examination and Approval System

The TEDA Administrative Approval Bureau was formally established in June 2015, a sign of TEDA progressing with the reform of its administrative examination and approval system. The Approval Bureau will take over administrative examination and approval functions from the 15 existing departments, including the TEDA Policy Research Office (Justice Bureau), Economic Development Bureau, and the Bureau of Human Resources and Social Security. For those approval items that fall outside the jurisdiction of the Approval Bureau (such as market supervision, land tax and other departments), new approval departments will

be set up. The whole system is stationed in the Center for Administrative Examination and Approval Services, which will implement centralized on-site examination and approval.

The Approval Bureau will implement an approval model which enables “one-stop service” through “a single window” and “one assembly line”, and provides convenient services for tenants.



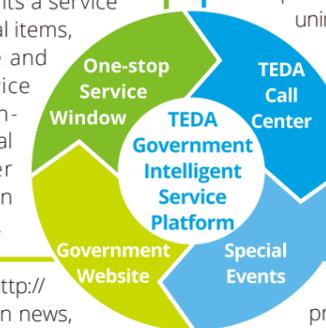
### One-Stop Service Window

Since 2000, TEDA has been implementing “one-stop service”, covering the services of business set-up, business operation, supporting management, standards and specifications, and bankruptcy and de-registration of the life cycle.

The Administrative Approval Hall has undergone an overall upgrade of the hall environment. The unified window ensures one window for entry and one window for exit. It thus implements a service model featured by all-around approval items, whole-process follow-up and online and offline access, simplifying the service process. In order to provide high-quality services for the whole approval process for enterprises, it further promotes “combined decentralization and regulation, and optimized services”.

### TEDA Government Services

TEDA Administrative Service Platform (<http://www.teda.gov.cn>) covers web content in news, government, investment, business, and daily life for issues related to TEDA. Through the integration of online and offline information systems for administrative approval and examination, they have established online booking systems, online consultation, Internet pre-trials, and portals for querying results, making announcements about approval publications, and other functions.



### TEDA Call Center

In order to achieve the government’s “all-weather” service, for the various issues raised by docking enterprises and residents, the TEDA call center provides uninterrupted service every day of the week for inquiries, advice, complaints, suggestions, emergency alarm services, and other such items of service. The service hotlines 25201111 and 25201114 were used over one million times in total from January 2002 to December 2015 to answer all types of phone.

### Special Events

The TEDA Administrative Committee provides regular events that include briefings, entrance meetings for new enterprises, meetings for service enterprise associations, leading industry service meetings, and breakfast meetings for government and business leaders. Leading cadres of the TEDA Administrative Committee regularly receive visits from various groups, and communicate with residents and enterprises on a face-to-face basis.

Source: Information provided by TEDA Administrative Committee.

## 2.6 • Soft Environment Support for TEDA

### Supporting service network for enterprises

TEDA Administrative Committee has established a special team for corporate services and arranged professionals to interact with each enterprise, offering all-around services from receiving investment investigation groups, recommending investment solutions, to project development and operation.

#### Project Development Services

Planning and Development Department and Public Affairs Department shall take the lead in providing coordination services, such as project location, land, real estate construction, infrastructure and environment protection.

#### Investment Services

Investment Attraction Department and Industry and Commerce Department shall provide coordination services in investment investigation, consulting, negotiation and registration. A dedicated project owner will follow up the whole process.

#### Human Resources Services

Professional Talent Service Department shall take the lead in providing services in policy support, talent recruitment and training.

#### Project Operation Services

Corporate Professional Service Department shall take the lead in providing services in trade stimulation and logistics clearance during daily production and operation process of enterprises and collaborating with other departments to offer corporate services.

#### Scientific and Technological Services

Technology Development Bureau and Tianjin TEDA Science & Technology Development Group shall provide professional technology services and financing and investment support for technology projects.



Source: Information provided by TEDA Administrative Committee.

## III. Business Collaboration Environment



# Introduction

A high-quality environment for business cooperation serves as an important indicator of regional core competitiveness and one of the important factors for attracting potential investors.

Relying on its existing traditional pillar industries, TEDA is exploiting the potential of emerging manufacturing and modern service industries and has built clusters of nine leading industries. It will build a "5+1+N" modern industrial system in the future.

With logical park planning, leading strategic transformation guidelines and close cooperation between upstream and downstream industries in the park, TEDA has built a sound industrial, scientific and life ecosystem, which provides huge development potential and market opportunities for enterprises.

### Corporate comments

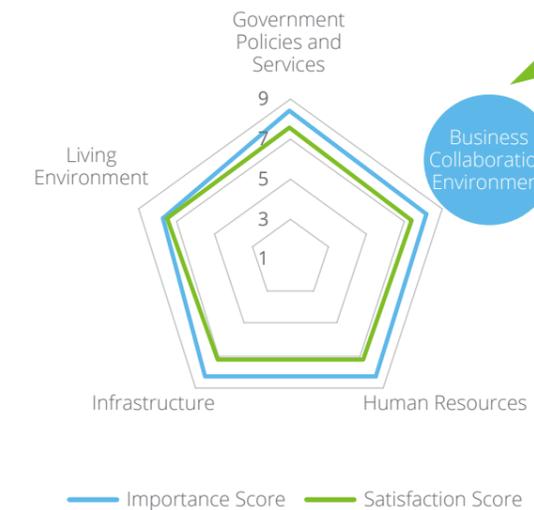
After development of over three decades, TEDA has established solid industrial foundation and enterprises in TEDA frequently cooperate and interact with each other. Entrepreneurs often organize meetings, where resources and information are shared, as well as cases on new products and technologies jointly developed by different enterprises. It's common for enterprises in TEDA to actively promote the model of TEDA to enterprises in other regions. "Attracting investment by the business" and "attracting investment through industrial chain" have become the unique characteristics of TEDA.

— Freescale Semiconductor (China) Co., Ltd.



## 3.1 • Business Collaboration Environment – Research Summary

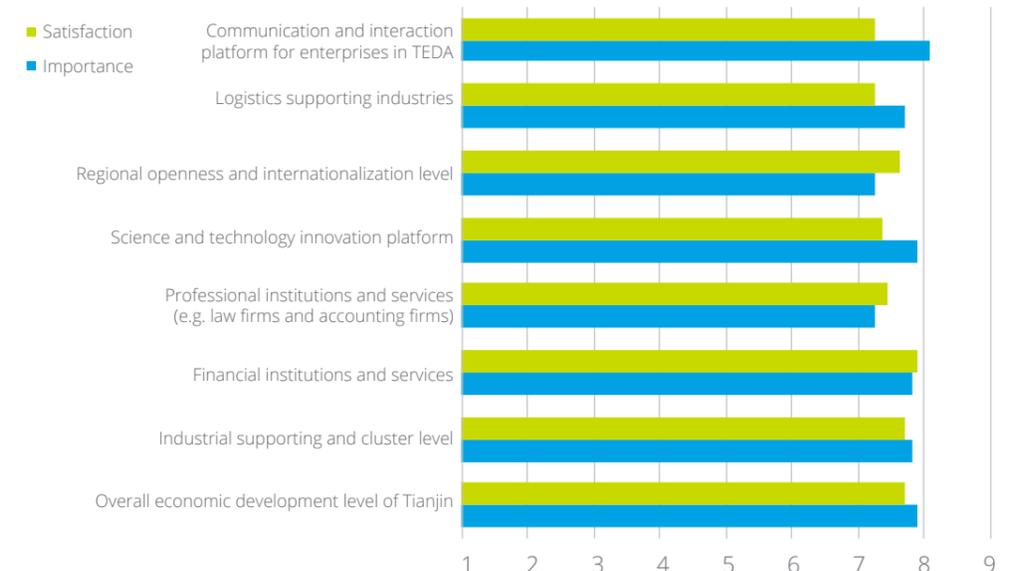
### Importance/Satisfaction of This Aspect



### Feedback on the Questionnaire for This Aspect

- The importance score of this aspect is 8.2 points.
- The satisfaction score of this aspect is 7.4 points.
- In this aspect, what participants believe to be the most important are: communication and interaction platform for enterprises in TEDA, science and technology innovation platform, overall economic development status of Tianjin.
- In this aspect, participants say that they are most satisfied with: financial institutions and services, supporting functions and cluster level and overall economic development status of Tianjin

### Protection of Intellectual Property Business Collaboration Environment



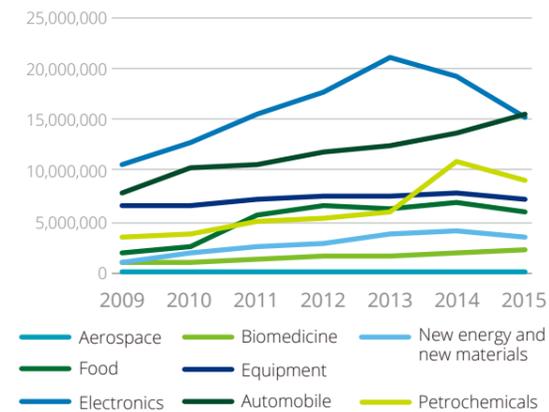
## 3.2 • Leading Industries of TEDA

### Leading Industries of TEDA

Apart from developing its traditional pillar industries, TEDA also explores its potential in emerging manufacturing and modern service industries. It has built nine leading industrial clusters, including electronics, automobile, equipment, petrochemicals, food, biomedicine, new energy and new materials, aerospace and modern service industries.

During the “13th Five-Year Plan” period, TEDA will build a “5+1+N” modern industrial system, namely five advanced manufacturing industries: electronics, automobile, petrochemicals, equipment manufacturing, and healthcare; plus one producer services-centered high-end service industry, covering financial services, modern logistics, information services, service outsourcing and technology services; plus several emerging industries, including energy conservation and environmental protection, additive manufacturing, Internet of Things (IoT), industrial Internet, and marine economics.

Industrial output value of leading industries in TEDA from 2009-2015



### TEDA has won the following national awards:

- National New Industrialization Demonstration Base (Automobile)
- National New Industrialization Demonstration Base (Electronic Information)
- National New Industrialization Demonstration Base (Petrochemicals)
- Auto and Spare Parts Export Base
- Foreign Trade Upgrading and Transformation Demonstration Base (Traditional Chinese Medicine and Western Medicine)
- National Industrial Base for Nanotechnology
- National Industrial Base for Modern Service

### Petrochemicals – Complete Industrial Chain

TEDA strives to further improve refining capability to support the development of middle and downstream industries and actively develop new petrochemical materials. An independent and complete industrial chain system of petrochemicals has been formed.

### Electronics – New Information Technology

TEDA focuses on improving traditional electronics areas, such as smart terminals, electronic components and integrated circuit, and developing emerging and cutting-edge areas, such as IoT, wearable devices, cloud computing and big data infrastructure.

### Automobile – Energy Conservation and New Energy Vehicle

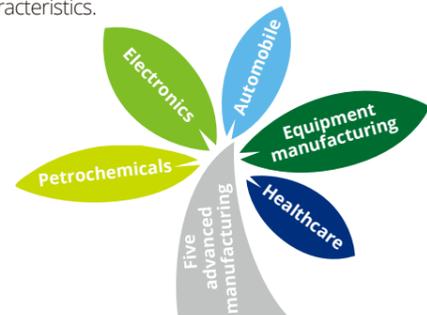
By promoting smart manufacturing devices, such as industrial robots, TEDA aims to improve automobile manufacturing and core components, while extending to energy conservation and new energy vehicles as well as connected cars.

### Equipment Manufacturing - High-end Manufacturing Industries

TEDA actively improves informatized level and innovation capabilities for traditional equipment products, such as core spare parts, engineering and agricultural machinery, fosters development of emerging areas, such as CNC machine tools, industrial robots and aerospace, and explores advanced formats, such as additive manufacturing (3D printing).

### Biomedicine and Medical Instrument – “Comprehensive Health” Industrial Cluster of Food and Medicine

TEDA has managed to seize the opportunity of industrial convergence of biotechnology and food industry. By combining independent innovation and import of advanced technology, TEDA focuses on leading industries to promote upgrading and development of traditional medicine industries such as biomedicine, as well as medical companies. Meanwhile, TEDA offers support to transform food and beverage to healthcare products and build a “comprehensive health” industrial cluster with unique characteristics.



Source: TEDA's 13th Five-Year Plan for Advanced Manufacturing, TEDA Administrative Service Platform

## 3.3 • Automobile

After the “Golden Decade” for the automobile industry in China, TEDA seeks for **upgrading to smart and environment-friendly automobiles** and follows the emerging trend of new energy vehicle and automobile services to form a complete and strong industrial chain.

In 2015, the industrial output value of automobile industry in TEDA reached RMB 137.08 billion, with a year-on-year increase of 9.7%, accounting for 15.4% of the gross industrial output value of above-designated-scale enterprises in TEDA. TEDA is home to over 110 automobile production enterprises, including five OEMs: FAW – Volkswagen, FAW Toyota, Great Wall, Xingma Automobile and Qingyuan Electric Vehicle, and 106 spare parts enterprises which form a complete supporting industrial chain, covering engine, automotive electronics, mold, tyre and coating. In recent years, TEDA also attracts enterprises specialized in new energy automobiles, automotive detection, high-end automobile R&D and design, and encourages enterprises to participate in scientific and technological innovation events. Currently, TEDA is home to 2 domestic-invested research institutions and 4 foreign-invested independent research institutions on automobiles.

### North China Base of FAW – Volkswagen

FAW – Volkswagen and TEDA Administrative Committee entered cooperation agreement in 2016 to establish the North China Base of FAW – Volkswagen, with total investment of RMB 19.5 billion. According to the plan, it will cover an area of 1,081,000 m<sup>2</sup> and is expected to be put into operation in 2018. By the end of the “13th Five-Year Plan” period, the overall automotive production of TEDA is expected to reach 2 million and the industrial output value of automobile industry will reach RMB 300 billion. The establishment of a new automobile production base will further expand the automobile and spare parts industrial chain in TEDA. It's expected that the gross industrial output value of spare parts suppliers will reach RMB 30-40 billion, which will help promote the industrial chain development and industrial structure upgrading in TEDA.

### Energy Conservation and New Energy Vehicle

TEDA has focused on key aspects, such as automobile, power cell, electric machinery and control and power charger and with the support of leading enterprises, it aims to build a leading R&D and manufacturing base of energy conservation and new energy vehicle. Several contracts on new energy automobile projects have been implemented, such as Samsung SDI cylindrical battery project and new energy special and commercial vehicle project.

According to The Future of Mobility published by Deloitte, innovative technologies are changing how companies develop and build vehicles.

- Electric and fuel-cell powertrains tend to offer greater propulsion for lower energy investment at lower emission levels.
- New, lightweight materials enable automakers to reduce vehicle weight without sacrificing passenger safety.
- With rapid advances in connected vehicles, every car can know precisely where each other car is on the road



**National New Industrialization Demonstration Base**  
**National Auto and Spare Parts Export Base**  
**National Quality and Safety Demonstration Zone of Exported Auto and Spare Parts**

Upstream Materials and Equipment	Basic materials	Key enterprises
	<ul style="list-style-type: none"> <li>• Steel alloy</li> <li>• Textile Mold</li> <li>• Fixture Tyre</li> <li>• Coating</li> </ul>	<ul style="list-style-type: none"> <li>• Guofeng Mold Tech</li> <li>• Volkswagen Transmission</li> <li>• Puxiang and SeAH Wire</li> <li>• Lizhong Alloy Group</li> <li>• Bridgestone</li> </ul>
Automobile Industry	Automobile production	Key enterprises
	<ul style="list-style-type: none"> <li>• Automobile manufacturing</li> <li>• Spare parts manufacturing</li> <li>• R&amp;D and design</li> </ul>	<ul style="list-style-type: none"> <li>• FAW and Toyota Research &amp; Development Co., Ltd.</li> <li>• Tianjin Qingyuan Electric Vehicle</li> <li>• Stanley Electric Co., Ltd.</li> <li>• Tianjin Branch of FAW – Volkswagen</li> <li>• Great Wall</li> </ul>
Downstream Service Industries	Supporting automobile services	Key enterprises/ Events
	<ul style="list-style-type: none"> <li>• Automotive finance</li> <li>• Automotive logistics</li> <li>• Automotive detection</li> <li>• Automotive exhibition</li> </ul>	<ul style="list-style-type: none"> <li>• Great Wall Binyin Automotive Finance</li> <li>• Tianjin Toyota Logistics</li> <li>• Kogi and Okaya Cast Steel</li> <li>• International Forum (TEDA) on Chinese Automotive Industry Development</li> <li>• SGS-CSTC Standards Technical Services Co., Ltd., Tianjin Branch (SGS)</li> </ul>

Source: TEDA's 13th Five-Year Plan for Advanced Manufacturing, Tianjin TEDA Official Website

## 3.4 • Electronic Information and Equipment Manufacturing

**Electronic information industry is the largest pillar industry in TEDA. TEDA's traditional electronic information manufacturing industry has developed a complete industrial chain, and new generation information technology industry is also booming.**

In 2015, the gross industrial output value of electronic information industry totaled RMB 152.34 billion, taking up 18.6% of the gross industrial output value of above-designated-scale enterprises in TEDA. It has attracted over 400 foreign-invested enterprises and nearly 200 domestic-invested enterprises in electronic information industry and service industry, most of which focus on communication equipment, optoelectronic display, electronic component, industrial electronics, new consumer electronics, and strategic emerging information technologies (including cloud computing, Internet, and software). Driven by increasingly diversified application of Internet Plus, intelligence, big data, and other concepts in traditional industries, in recent years, TEDA has been promoting the transformation from



electronic information manufacturing to high-end terminal devices, and actively supporting development of start-ups in Internet of Things, wearable devices, cloud computing, big data, and other emerging industries.

In addition, TEDA emphasizes the importance of building platforms to offer technology services for electronic information industry, so as to activate innovative resources and promote sustainable industrial development. Some platforms have been established, such as Tianjin National High-Tech Industrial Base for Integrated Circuits, Binhai New Area Cloud Computing Park, and Binhai New Area IoT Industrial Base.

**TEDA is among the most advanced equipment manufacturing areas in China, and one of the pilot areas with strategic tasks specified in Made in China 2025.**

In 2015, the gross industrial output value of equipment manufacturing industry totaled RMB 72.99 billion, taking up 8.9% of the gross industrial output value of above-designated-scale enterprises in TEDA. It has attracted over 300 above-designated-scale enterprises in equipment manufacturing industry, including over 200 foreign-invested enterprises and over 100 domestic-invested enterprises. Most of these enterprises focus on carrier rocket, instrument and apparatus manufacturing, machine tool, petrochemical equipment, wind turbine, engineering and agricultural machinery, basic machinery part, and power transmission and transformation equipment. TEDA values not only industrial clustering, but also building R&D capacity of equipment manufacturing enterprises, for which TEDA has developed diversified financing channels. There are currently more than 20 research institutes on equipment manufacturing in TEDA, including one national engineering research center, two municipal engineering centers, and six national enterprise R&D centers.

Powered by solid industrial base and competitive innovation advantage, TEDA will further support information-based transformation of traditional equipment manufacturing industry during the "13th Five-Year Plan" period. In addition, TEDA will boost emerging manufacturing industries, including aerospace, high-end CNC machine tools, industrial robot, and additive manufacturing, in order to build TEDA into a national manufacturing and R&D base for high-end equipment manufacturing industry.



### TEDA R&D Assistance and Service Platform for High-end Intelligent Equipment Enterprises

Established and wholly owned by the government, this platform is a non-profit service platform that focuses on enterprises' needs and provides multilevel services and support for high-end intelligent equipment enterprises.

### TEDA Industrial Park of Intelligent Unmanned System

With platform-level enterprises including Deepfar Ocean Technology Co., Ltd. and EFY Technology, the Industrial Park attracts many enterprises providing integrated solutions or conducting key technology R&D. Tianjin TEDA Science & Technology Development Group will coordinate supply chain, intellectual resources (including research institutes), investment and financing products for enterprises in the Industrial Park.

Source: TEDA's 13th Five-Year Plan for Advanced Manufacturing, TEDA Administrative Service Platform.

## 3.5 • Petrochemical Industry

**To build a world-class ecological portside petrochemical industry base in the Nangang Industrial Zone**

Nangang Industrial Zone of TEDA is one of the 8 national petrochemical industry bases in China. Situated at the core of the Jingjinji region (Beijing-Tianjin-Hebei) and Bohai Bay area, the Zone benefits greatly from its geographic location and port resources. Currently, Nangang is dedicated to becoming a world-class petrochemical industry base and port-based comprehensive industrial zone, as well as a hub for petrochemicals in North China and a national circular economy demonstration area. The development of the Zone will bring great opportunities to the growth of petrochemical industry in TEDA.

In 2015, the output value of the petrochemical industry in TEDA reached RMB 91.03 billion, accounting for 11.1% of the gross industrial output value of TEDA. TEDA has now attracted a number of Fortune Global 500 petrochemical enterprises, which own a great number of sci-tech talents and high quality workers. In the future, the Nangang Industrial Zone will continue to adopt advanced technologies to drive large-scale, intensive and integrated development of traditional upstream petrochemical industries, such as oil refining and processing of multiple raw materials; meanwhile, it will also pay attention to the development of downstream industries and supporting services, such as new petrochemical materials, fine chemicals, comprehensive utilization of resource and energy as well as productive services.

### Overview of supporting services in the Zone

#### Public Utility

Following the philosophy of circular economy, the Nangang Industrial Zone has constructed an integrated utility island for poly-generation of "water, electricity, steam, gas, and pollutants".

#### Security Support

The Nangang Industrial Zone has initially formed its emergency response system for security and environmental protection and built a fire station and an environment monitoring and early warning system.

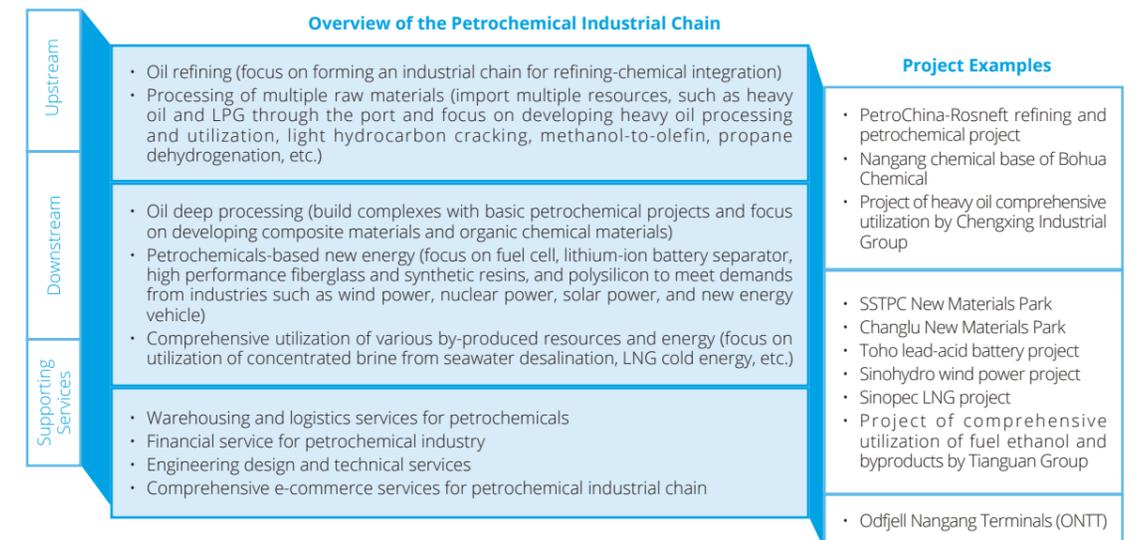


#### Port Construction

Nangang will also pay more attention to port construction and build deep-water channels according to the demand on time.

#### Supporting Infrastructure

The Zone will step up its efforts to construct supporting dock for transporting crude oil and oil products as well as pipelines and utility facilities, etc. for relevant projects.

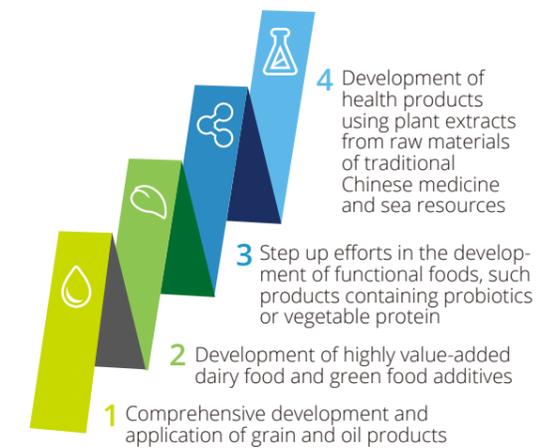
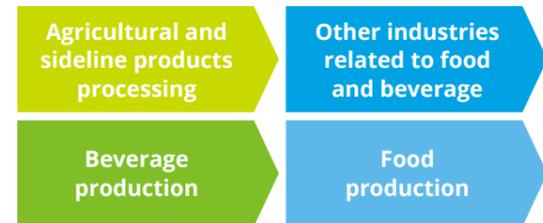


Source: TEDA's 13th Five-Year Plan for Advanced Manufacturing, documents provided by Nangang Industrial Zone.

### 3.6 • Food and Biomedicine - “Comprehensive Health” Industrial Cluster

In recent years, TEDA has been actively driving the food, grain and oil industries with the support of abundant raw material resources from the Bohai Rim region and Tianjin Port - China's largest port for grain import.

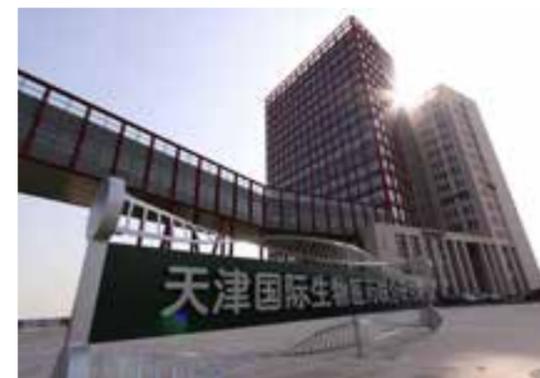
Since 2010, the food industry in TEDA has been growing rapidly and attracted over 140 enterprises of various fields, such as health product and functional food, dairy product, food additive, sauce, leisure food, refined grain and oil and soft drink. The representatives are: Master Kong, Nestlé, Coca Cola, Pepsi, Bunge, Yakult, etc. As consumers are paying more attention to nutritional and healthy foods, TEDA is now striving to accelerate the transformation and upgrade of its traditional food industrial chain towards nutritional and health foods production.



As population and health problems becoming more prominent, China has paid more attention to supporting the development of biomedicine industry, including the industry into one of the seven strategic emerging industries. With abundant funds and talents and strong sci-tech power, the Jingjinji region has grown into one of the most vibrant and competitive regions in terms of biomedicine development in China.

Between 2009 and 2015, the output value of the biomedicine industry in TEDA has seen steady growth with CAGR reaching 13.5%. TEDA now houses 400 medicine and service companies, of which 90 are foreign-invested and the remaining 310 are Chinese companies. Those companies are mainly engaged in fields of biological products and biologics, chemical agents, traditional Chinese medicine and natural medicine, medical instruments, pharmaceutical R&D outsourcing, etc. Famous companies include Novo Nordisk, Novozymes, Zhongxin Pharmaceuticals, Servier, Asymchem, Jenkem Technology, WuXi AppTec, GSK, Hanaco Medical, etc.

Currently, TEDA is actively developing national biomedicine R&D centers and biomedicine incubators and attracting venture capital companies, in order to provide biomedicine enterprises with all-round supports, such as technology, finance, talent, management and operation.



According to Deloitte's report - Pharmaceutical R&D Trends in China, an accelerating shift in China's R&D landscape will further lead to increased R&D capabilities of local companies.

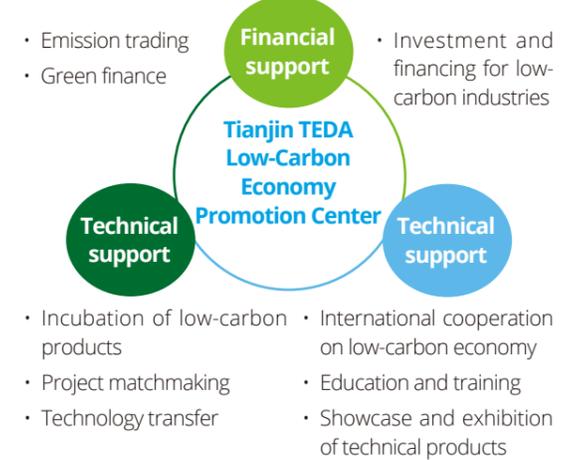
- Great flux in R&D regulatory reform
- Growing need for “Made for China” drugs
- Increasing competition from local companies
- Local R&D integration through partnerships has the best chance of creating more value for partners.

Source: TEDA Administrative Service Platform, TEDA's 13th Five-Year Plan for Advanced Manufacturing

### 3.7 • New energy, new materials and aerospace

It is a consensus among countries worldwide that the dependence on nonrenewable fossil fuels should be reduced. Over the past few decades, the technology, process, and usage of new energy have all been improved. TEDA has always been committed to low-carbon development and developing new energy industry. Meanwhile, TEDA has been attracting new material enterprises to offer support of high-end materials for its advanced manufacturing industry.

In 2015, new energy & material had become one of the emerging pillar industries of TEDA, as its gross industrial output value totaled RMB 36.08 billion, accounting for 4.4% of the gross industrial output value of above-designated-scale enterprises in TEDA. Currently, TEDA's new energy and new material industries are mainly focusing on four fields: power generating equipment, energy efficient materials and environment-friendly materials, energy storage equipment and fuel cell, and high-end materials for advanced manufacturing and low-carbon industries. In 2010, TEDA Administrative Committee established Tianjin TEDA Low-Carbon Economy Promotion Center which aims at supporting companies relevant to low-carbon technologies and relevant consulting services, and promoting the transition to low-carbon in TEDA's industry, building and other sectors. As for new materials, China National Academy of Nanotechnology & Engineering (CNANE) has been established in TEDA, which contributes itself to applying nanotechnologies to electronic information, biomedicine, fine chemistry, energy, water source, environmental protection, MEMS, optoelectronics, etc.



TEDA undertakes aerospace industry, with the industrialization base of “New generation rocket carrier” as a representative case. Also, TEDA is taking aggressive actions to attract companies specialized in R&D, manufacturing, logistics, and other upstream and downstream links of the industrial chain.

On October 30, 2007, the industrialization base of “New generation rocket carrier” was established in TEDA. Covering an area of 2,000,000 m<sup>2</sup>, the base consists of rocket R&D and manufacturing area, aerospace technology application industry area, and support area. The base has integrated manufacturing of rocket parts, assembling of parts and components, and final assembly and testing, and could be deemed as a new aerospace town that reflects the highest level of aerospace industry of both China and the world. The manufacturing of all integral parts and components of the Long March VII and V carrier rockets, and the final assembly of these rockets are all completed here. In 2015, the industrial output value of TEDA's aerospace industry exceeded RMB 820 million.

In addition, TEDA plans to move toward drones and satellite navigation domains during the “13th Five-Year” period. Also, the industrialization base will develop more powerful rockets to lay foundation for China's ultra large spacecrafts (space station, space probe, space precision deployable mechanism) to explore deep space.



Source: 1. Documents provided by the Traffic Bureau of Tongxiang; 2. Statistical Yearbooks of each city; 3. Statistic Bulletins of each city.

## 3.8 • Modern Service Industry Leads Industrial Support and Relevant Upgrading

### Finance support

TEDA is located in the "Pilot Project" demonstration zone in Binhai New District, an area that provides comprehensive financial support and commits more efforts in reform and opening-up than its counterparts in China. TEDA has opened [www.financeteda.com](http://www.financeteda.com), which brings enterprises the latest and most immediate financial news about TEDA. In 2015, the increment of TEDA's financial industry reached RMB 22.32 billion. Clustering effect of traditional financial industry is significant here, as TEDA has gathered 45 banking institutions (including 6 foreign-invested banks and 15 bank branches), 7 insurance institutions, and 354 fund companies. In addition, TEDA Administrative Committee is actively attracting new financial formats such as financial leasing, commercial factoring, consumer finance, auto finance, Internet finance, specialized trading market, etc., to provide diversified financing channels for the enterprises in TEDA.

**Eight modern service industries provide key support for the transformation and upgrading of TEDA's manufacturing and the improvement of its urban functions**



Increment of financial industry (RMB 100 mn)	223.2
Banking institutions (Num)	45
Insurance institutions (Num)	7
Financial leasing enterprises (Num)	50
Commercial factoring enterprises (Num)	21
Fund enterprises (Num)	354
Small loan companies (Num)	11

### Service support for production

With its strong economic foundation, industrial clustering, and market potential, TEDA has agglomerated numerous domestic and overseas services enterprises, making it one of the development areas that enjoy the fastest growth in modern service industry. Service industry in TEDA involves various fields, including commercial and trading services, service outsourcing, technical R&D, high-end logistics, big data, cloud computing, finance consulting, cultural creativity, legal consulting, etc. Among them, the commercial and trading service, which is represented by e-commerce and bulk stock trading, is specifically developed, which brings over RMB 230 billion revenue. Major representative enterprises include: Affiliated Computer Services (Tianjin) Co., Ltd. (ACS); SGS-CSTC Standards Technical Services Co., Ltd., Tianjin Branch (SGS).

**NSCC-TJ National Supercomputing Center in Tianjin:** equipped with the world leading Tianhe-1 supercomputer

**Tencent Data Center and Cloud Computing Base:** with over 200,000 servers, the largest data storage center in Asia

**HP's Cloud Executive Briefing Center:** a center for the high-end and core business of HP's global professional service group, and a key carrier of its cloud computing business

**Foxconn's energy-efficient cloud computing data center:** China's first cloud computing center powered by solar energy, which integrates technologies of second generation Internet, new energy, energy conservation, emission reducing, green buildings, etc.



Source: Documents provided by TEDA Administrative Committee, TEDA's 13th Five-Year Plan for Modern Service Industry

## 3.9 • Technical Innovation Development

### Innovation acts as the new driver of TEDA's growth in the new era

Currently, China's industrial areas are experiencing a transformation, from a 1.0 version featuring "policy, administration oriented, hardware infrastructure" to a 2.0 version featuring "regime, integration oriented, soft environment". In recent years, TEDA has actively promoted the creation of an environment favorable for innovation, by making efforts in offering incentive policies, developing carriers for innovation, creating financing platforms for technical innovation, attracting various R&D institutions to settle in TEDA, encouraging partnership between companies and colleges, providing talents for innovation, etc., and has achieved great outcomes. TEDA strives to advance its transformation and upgrading, and assist the development of all aspects of a project.

### Joint innovation under the integration of Beijing, Tianjin and Hebei Province

Under the background of the strategic "integration of Beijing, Tianjin and Hebei", TEDA is actively facilitating the cooperation and communication between TEDA and Beijing in science and technology:

- Attract excellent SMEs on big data, cloud computing, and other key leading sectors of Beijing
- Take proactive actions in absorbing the colleges and research institutions that will move out of Beijing
- Enhance cooperation with the Zhongguancun Science Park (Z-Park), and encourage TEDA's enterprises to join in the industrial alliances established or dominated by the Z-Park
- Create mechanisms for regular communications between companies in Beijing and Tianjin

### TEDA Entrepreneurial and Innovative Demonstration Area

In July 2016, TEDA Entrepreneurial and Innovative Demonstration Area was officially unveiled. The Demonstration Area is committed to promoting the development of regional innovation ecology. Focusing on four main drivers of development ("innovation, entrepreneurship, venture capital, and Maker"), it improves the allocation of resources from industry, innovation, capital, and policy, so as to further drive innovation relevant to the organizational and service models of entrepreneurship and innovation. The Demonstration Area includes various innovation elements, such as makerspace, general service institution, technical finance institutions, administrative institutions for giving approval, high-tech enterprises, and research institutions. Its core functions include building service platform, innovating growth model, improving system development, integrating quality resources, creating brands of entrepreneurship and innovation, etc.

Currently, the following projects of the Demonstration Area have been completed and already put into operation: Chuangke HQ incubator, Tianjin Academy for Intelligent Recognition Technologies, 36 Kr, 7WSH.com, Beijing Makerspace, etc.



Source: 2015 Blue Paper on Sustainable Development of China's Industrial Zones, 2015 Report on Sustainable Development of Tianjin Economic-Technological Development Area

### TEDA achieved significant results in the "12th Five-Year" period

Considerable amount of technical enterprises: 300-plus national high-tech enterprises, 400-plus "Little Giant" technical enterprises, over 5,500 technical SMEs.

Clustering of R&D centers: 149 certified R&D institutions of national or Tianjin municipal level (including 34 foreign-invested R&D institutions). Leading amount of patents: 8,000 licensed patents and 1,384 patents for invention.

Diversified makerspace: Beijing-Tianjin Interconnection Entrepreneurship Coffee and Tianjin Smestar International Industrial Park have been put into use, and they have signed contracts with TEDA Kr Space, Microsoft Accelerator, Chuangke HQ incubator, Tsinghua X-lab, Beijing Makerspace, TEDA Maker, etc.

Improving financing model: TEDA has gradually developed a "four-in-one" financing model that integrates enterprise, investment and financing service platforms, government, and financial institutions. It is constantly agglomerating private placement, fund, VC and other professional investment, and has now gathered over 110 venture capital companies.



## IV. Infrastructure

## Introduction

Convenient transportation networks and comprehensive infrastructure services assure industrial clustering and drive regional economy growth.

TEDA is located in the intersection of the Bohai Economic Rim and the Beijing-Tianjin-Hebei metropolitan area and is at the center of the Tianjin Binhai New Area, which is regarded as the third growth pole of China's economy. This excellent geographic location, together with the comprehensive transportation network, enables TEDA to have a massive coverage of market.

In terms of the infrastructure construction, TEDA Administrative Committee holds high standards and sticks to the moderate advanced principles. After 30 years of construction, there is now comprehensive and reliable sets of infrastructure services in water supply, power supply, gas, heating, drainage, transportation, telecommunication and public facilities, driving TEDA to achieve the “new nine accessibilities and one leveling” on the basis of the old “nine accessibilities and one leveling.”

### Corporate comment

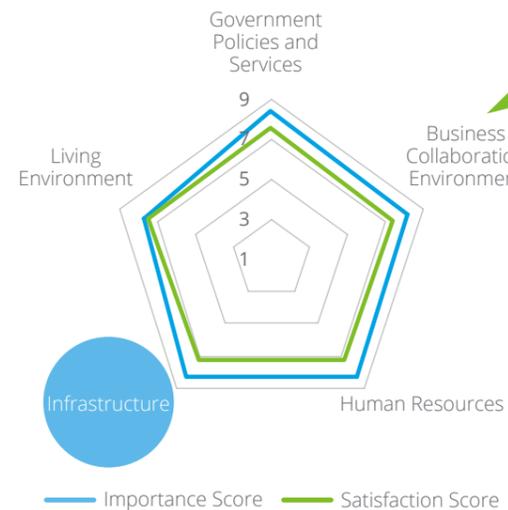
The infrastructure services of TEDA can be adjusted according to the actual requirements and the characteristics of enterprises, aiming to assist their development. As an Internet company with the largest data center in Asia, we rely heavily on power supply during operation and also have other specific needs. After our registration in 2007, in responding to our demand, the committee provided an innovative solution for reliable power support. They built a substation in TEDA to provide inclusive power and energy allocation service for us. This kind of customized power solution can only be found in TEDA.

— Tencent Digital (Tianjin) Company Limited



## 4.1 • Infrastructure – Research Summary

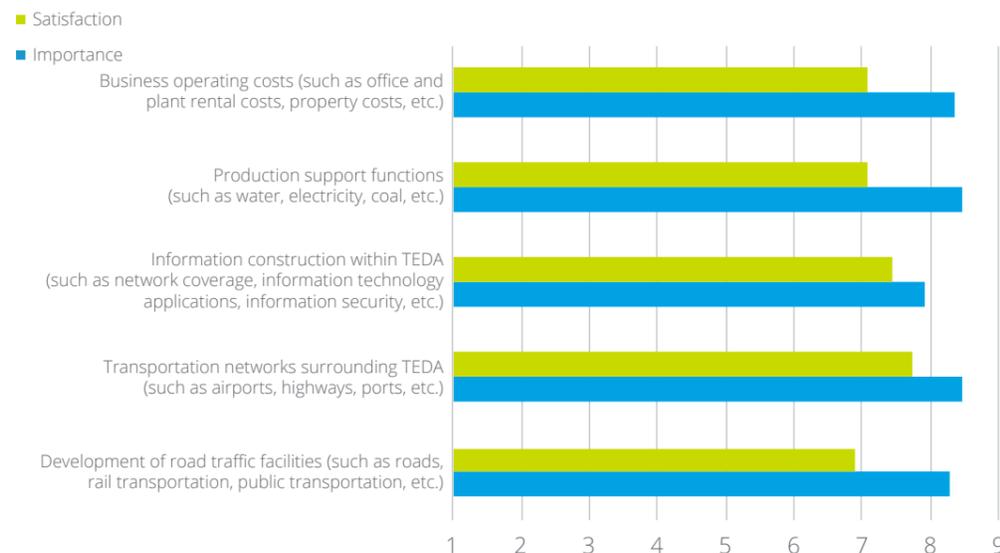
### Importance/Satisfaction of This Aspect



### Feedback on the Questionnaire for This Aspect

- The importance score for this aspect is 8.3 points.
- The satisfaction score for this aspect is 7.2 points.
- In this aspect, what participants believe to be the most important are: production supporting functions, the surrounding transportation network, and operating costs.
- In this aspect, participants say that they are most satisfied with: the surrounding transportation network and the information structures.

### Segmentation of Importance/Satisfaction Infrastructure



## 4.2 • Transportation and Logistical Network – Air and Sea Transportation

TEDA is located in the intersection of the Bohai Economic Rim and the Beijing-Tianjin-Hebei metropolitan area and in the center of Tianjin Binhai New Area, adjacent to the Tianjin Port in the east, and the Tianjin Binhai International Airport in the west, which is the cargo base and a major commercial airport in northern China. Trans-regional expressways, light rail, and inter-city express and freight railways connect TEDA with the China's main domestic railways and the highway network to the whole country.

### Two Major Ports

#### Tianjin Port

The Tianjin Port in the east is an ice-free port and navigable year-round. The port is the largest international trade port in northern China, with a coastline of 32.1 km. 300,000-ton ships can enter and exit the port with the tide. From January to November of 2015, the overall cargo throughout was about 500 million tons, with 12.81 million TEUs. The port connects TEDA with 400 ports in over 180 countries and regions across the globe.

#### Nangang Port

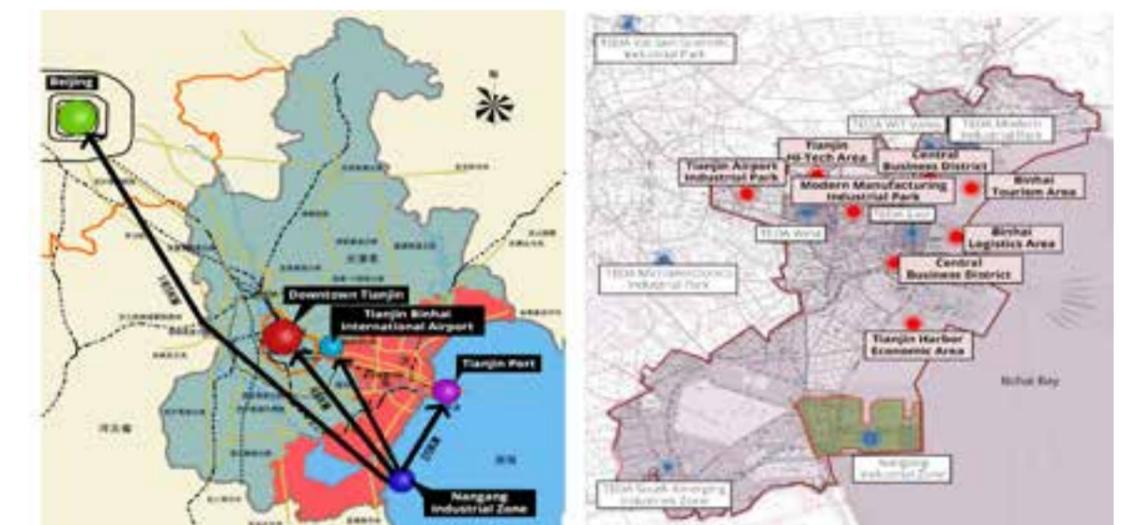
As the southern port in the port area of Tianjin, Nangang Port is an important part of Tianjin's "Two Cities and Two Ports" development strategy. The Nangang Port has 32.1 km of shoreline and channel capacity of 100,000 tons in plan and is expected to have 300,000 tons of navigation capacity in the future, mainly supporting the petrochemical industry in the Nangang Industrial Zone. The annual throughput of Nangang Port will reach 60 million tons by 2020 and 171 million tons by 2030. With the industrial characteristics of Nangang Industrial Zone, Nangang Port aims to be the hub for petrochemical products in northern China.

### Aviation

Tianjin Binhai International Airport is the cargo base and a major commercial airport in northern China. In 2015, its passenger traffic has exceeded 14 million. The airport connects over 40 major domestic cities (including Hong

Kong and Taiwan) and over 20 cities in overseas countries like Korea, Malaysia, Japan, Singapore, Denmark, Russia, Germany, and Sweden.

TEDA is only 150 kilometers' distance and 2 hours' drive from Beijing Capital International Airport, the biggest commercial airport in China, which enables it to take advantage of the aviation resources of Beijing. The transportation network reaching out in all directions helps international investors to have their business activities here conveniently.



Source: TEDA Administrative Service Platform

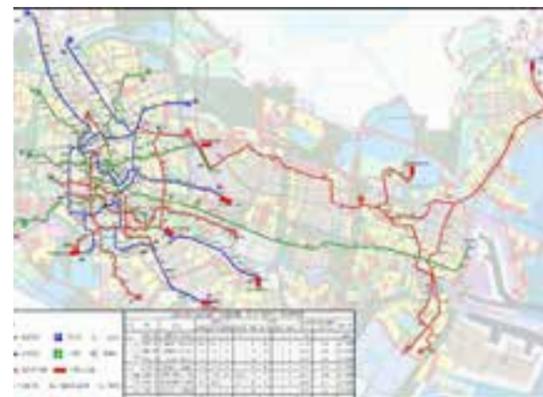
## 4.3 • Transportation and Logistics Networks – Highways and Railways



### Intercity Highways

After years of construction, Binhai New Area where TEDA is located has built a road network with highways as the backbone and state roads and provincial roads as main lines, connecting the urban areas of Tianjin with the surrounding cities.

As of 2014, Binhai New Area has built up more than 140 long-distance passenger lines, with a total length of about 44,000 km and an annual passenger volume of 200 million.

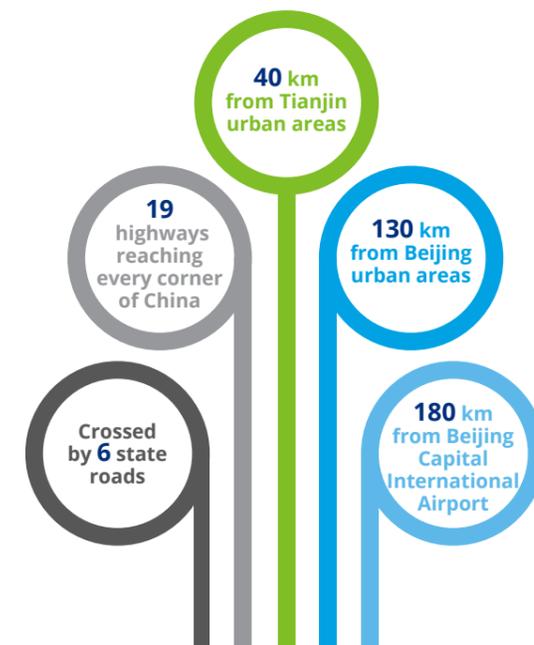


### Intercity Railways

In September 2015, the Beijing-Tianjin intercity high-speed railway extension line was opened to traffic. The high-speed trains arrive directly at Yujiapu Railway Station, which is only 5 minutes' drive to TEDA. Today, it takes less than 60 minutes to drive from TEDA to Beijing. Additionally, there are also railway lines starting from Binhai New Area to Beijing, Shanghai, Harbin, and other cities.

In the future, Tianjin will plan for the construction of a Beijing-Binhai intercity high-speed railway leading directly to Binhai New Area. Meanwhile, the city will accelerate the capacity expansion and transformation of the Ji-Gang (Jixian to Dagang) railway and the implementation of the construction project of the Tianjin Railway Container Logistics Center Station. It will also build backbone railways,

starting from Binhai New Area and leading directly to Northeast, North, Northwest, and East China. By then, TEDA will boast both an international shipping center and a logistical center.



### Rail Transit

At present, Binhai New Area has opened Tianjin-Binhai Light Rail, with a total length of 52.25 km. Three subway lines B1, Z2 and Z4 launched in 2015 will become the main lines for Binhai New Area rail transit. In addition, there are also another five planned lines yet to be built, which are expected to be completed by 2020.

### City Buses

As of 2015, Binhai New Area has a total of 1,920 buses in operation, 84 bus lines, 11 school bus lines, and 76 peak lines. From TEDA, you can easily take the bus to reach all areas of Tianjin.

Source: TEDA Administrative Service Platform

## 4.4 • Energy Resources and Plant Support



### Adequate energy allocation and infrastructure support

In 2015, TEDA invested RMB 3,229 million in infrastructure support, mainly covering substations and power grids reconstruction, water supply projects, and heat-source plant construction projects, to enhance comprehensive regional support capacity.

### Resource Reliability and Sustainability

TEDA has easy access to high-quality water and food resources, helping it to become an important production base for convenience foods and beverages. At present, TEDA has attracted famous brands such as Master Kong, Yakult, Nestle, and Coca-Cola.

Supply Capacity Index	Unit	End of 2015
Water Supply Capacity	10,000 tons / day	75.0
Power Supply Capacity	Megavolt Ampere (MVA)	2,208.0
Natural Gas Supply Capacity	10,000 m <sup>3</sup> / day	422.4
Heating Capacity	Tons / hour	2,512.5

### Diversified Standard Plants

There are standard plants with various specifications in different parks of TEDA to meet the differing needs of a variety of enterprises. Besides, some enterprises in TEDA can provide agent construction and customized plant services. In the meantime, TEDA Service Outsourcing Industrial Park, Tianjin TEDA Science & Technology Development Group, Yat-Sen Scientific Industrial Park, Microelectronics Industrial Park, TEDA Incubator and TEDA MSD can also provide enterprises with different types of office space. Additionally, there are also blue and white-collar apartments in EDA's various parks for enterprises to rent. (Refer to Appendix V for details.)



## 4.5 • Business Support



### Convention and Exhibition Facilities

Located in TEDA, Binhai International Convention & Exhibition Center (BICEC) is a large-scale modern convention & exhibition center with hardware facilities above international criteria. It can host both commodity exhibitions and trade & business negotiations. BICEC is a representative large-scale modern international convention & exhibition center in Bohai Rim region. It successfully hosted World Economic Forum Annual Meeting of the New Champions 2008 and the second Summer Davos forum. The 1st China International Private Equity Forum, International Conference for Bioeconomy, and more than 100 other domestic and foreign large-scale exhibitions and conventions were also successfully held in BICEC.

### Hotel

TEDA has 12 star-level hotels, including 6 five-star hotels, 5 four-star hotels, and 3 two-star hotels. Marriott, Renaissance, Sheraton, and other world-renowned hotel groups have settled here. These star-level hotels with excellent facilities and professional services provide a good environment for TEDA enterprises to host business meetings and travels.

### Office Buildings

At present, TEDA manages a total of 19 commercial buildings, covering an area of approximately 1.218 million m<sup>2</sup>. An International Grade-A office building, TEDA MSD, is built to serve the modern high-end service industry. The science and technology parks, represented by TEDA Service Outsourcing Industrial Park, are positioned to develop high-end service outsourcing companies and high-tech firms. The Beitang Headquarters Industrial Park meets the personalized office needs of various enterprises, where many Grade-B office buildings satisfy the commercial, logistics, and other office needs of traditional industries.

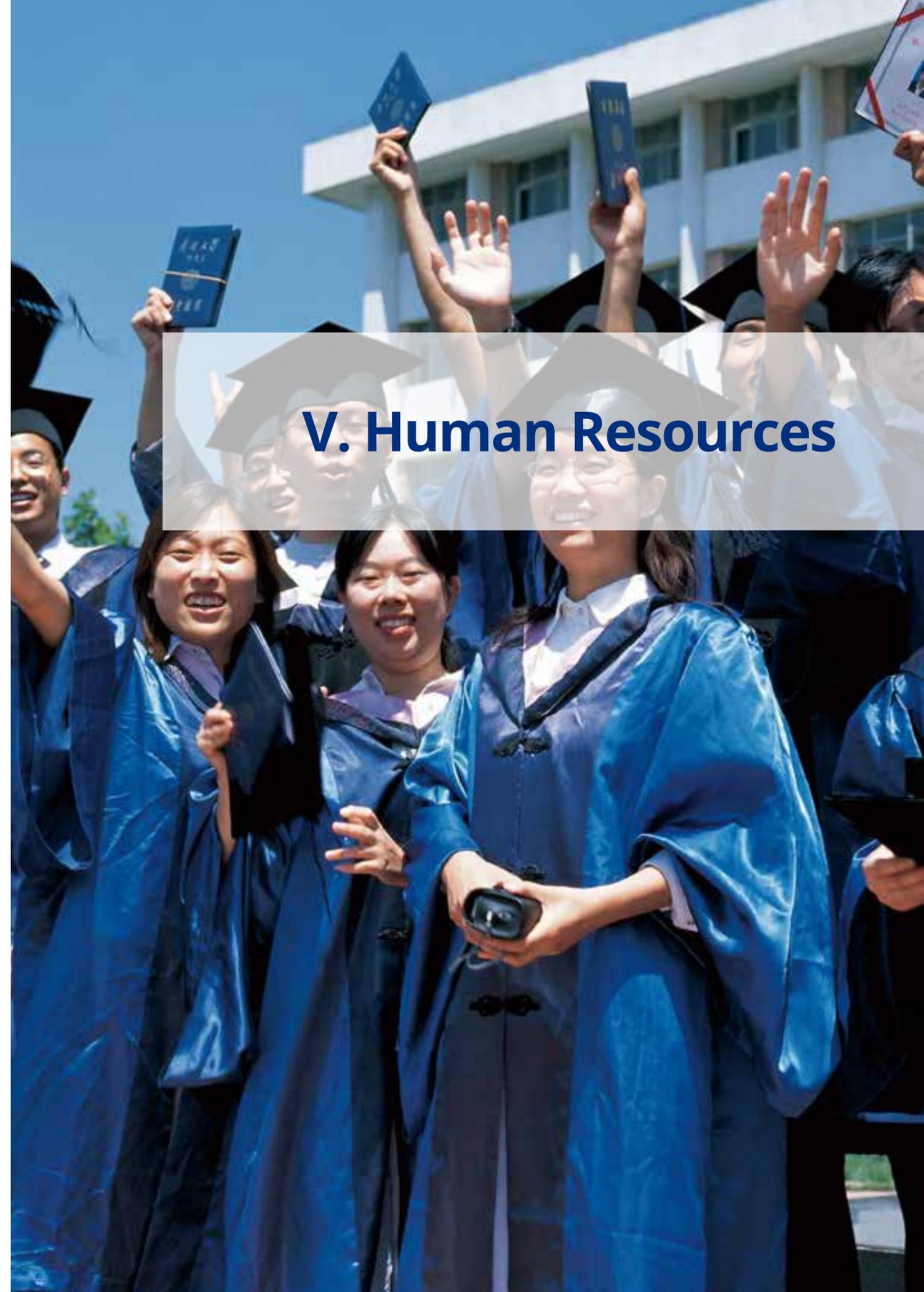


### List of Enterprises Situated in TEDA MSD

<b>Zone B</b>	Huawei Marine Networks Co., Limited (Huawei Marine); Jingdong Finance; CIMC Modern Logistics Development Co., Ltd.; Bohai Securities Co., Ltd.; Standard Chartered Scope International (China) Co., Ltd.
<b>Zone C</b>	Sohu Video Headquarters, Aisin Seiki, China Bohai Bank Co., Ltd, Tianjin BinHai Investment Group
<b>Zone G/H</b>	Chuangke HQ incubator, 36 Kr
<b>Zone F</b>	Master Kong



Source: TEDA Administrative Service Platform



## V. Human Resources

# Introduction

Optimization of talents structure is necessary for adjustment and transformation of industrial structure and a base for harmonious employer-employee relationship. TEDA attaches great importance to personnel training and improves its talents introduction policies for promoting multi-level talent building from all aspects.

Currently, rich vocational training and higher education resources in TEDA assure talent supply for the enterprises in the Area. Meanwhile, various vocational trainings, set up especially for employees, and completed live support services are basis for long-term development of the enterprises.

### Corporate comment

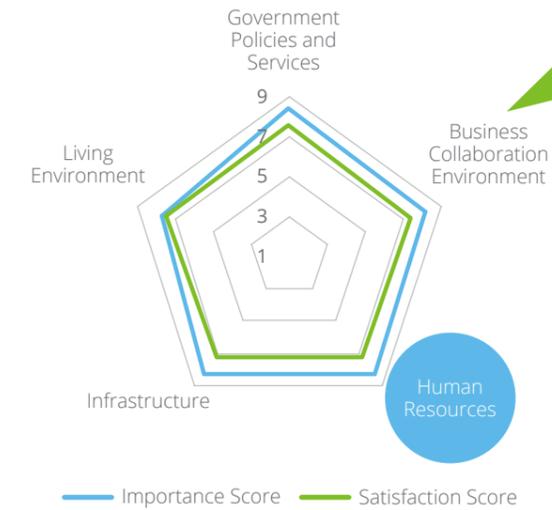
Since we entered TEDA, we never worry about staff supply and the turnover rate is low, all because of the decent recruiting and employment environment in TEDA. Our company can take in local talents through the TEDA Service Center for Human Resources, and cooperate with local schools directly, providing internship for students while establishing a long-term talent pools. With respect to technical professionals, we have established long-term cooperation with two vocational-technical schools in TEDA.

— Novo Nordisk (China) Pharmaceutical Co., Ltd..



## 5.1 • Human Resources – Research Summary

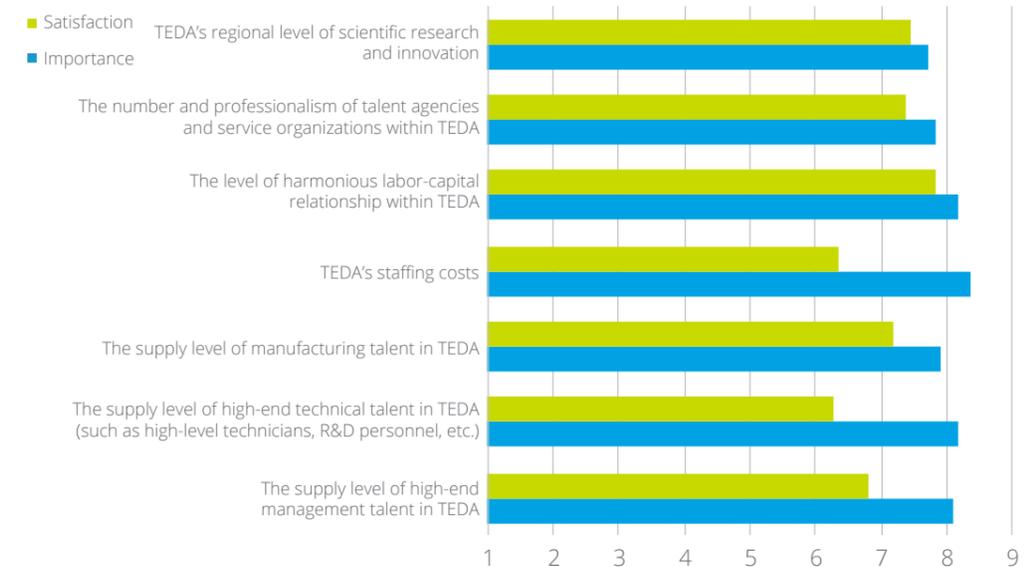
### Importance/Satisfaction of This Aspect



### Feedback on the Questionnaire for This Aspect

- The importance score for this aspect is 8.3 points.
- The satisfaction score for this aspect is 7.2 points.
- In this aspect, what participants believe to be the most important are: staffing costs, the supply level of high-end technical talent, and the level of harmonious labor-capital relationship within TEDA.
- In this aspect, participants say that they are most satisfied with: the level of harmonious labor-capital relationship, the level of scientific research and innovation, and the number and professionalism of talent agencies and service organizations in TEDA.

### Segmentation of Importance/Satisfaction Human Resources



## 5.2 • Supply of Human Resources

### Overview of Human Resources in TEDA

There is currently an existing population of 200,000 in TEDA, including about 5,000 residents from over 30 countries and regions including Hong Kong, Macao and Taiwan, forming a harmonious and diverse cultural environment. According to statistics, by the end of 2015, there are 94,000 registered residents, an increase of 27,000 residents compared with that of last year. 515,000 people work in TEDA, 75% of which are in the secondary industry, 25% of which the tertiary industry. TEDA strives to maintain and improve the employer-employee relationship, as well as the labor-capital relationship in TEDA. In 2013, TEDA was awarded with the title of "National Model Industrial Park for Labor Relations"

Tianjin's Institutions for Higher Education	
Nankai University	Tianjin University
Tianjin Normal University	Tianjin Medical University
Tianjin Polytechnic University	Tianjin University of Traditional Chinese Medicine
Tianjin University of Technology	Tianjin University of Finance and Economics



### Sufficient Talent Reserves

TEDA has rich educational resources and sufficient talent reserves. The total number of college graduates of each year is around 120,000, half of which graduate from majors concerning key industries such as electronic information, machinery, automobiles, food and beverage, biomedicine and modern service industry. In addition, outstanding higher education institutions such as Tianjin University and Nankai University play the role of international and high-level talent reserves for enterprises in TEDA.



### Electronic Communication

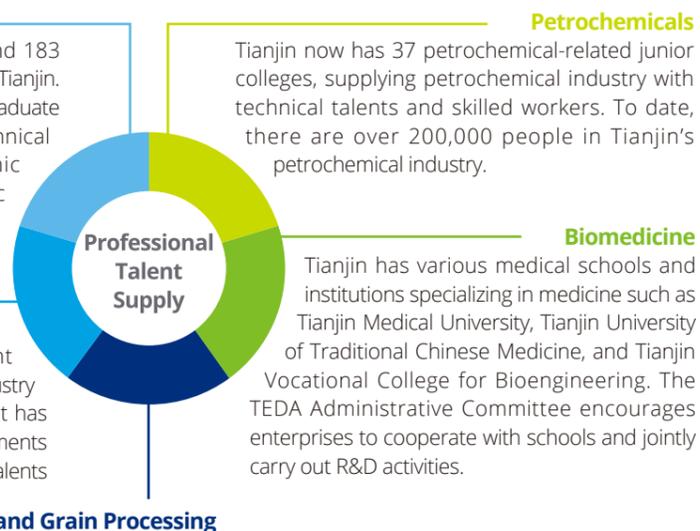
There are 59 colleges and universities and 183 vocational schools and technical schools in Tianjin. Each year tens of thousands of students graduate from junior colleges and secondary technical schools with qualifications in electronic communication. To date, the electronic communication industry has millions of workers of high quality.

### Equipment Manufacturing

Every year, around 50,000 people graduate from mechanic major. It is a rich talent resource for equipment manufacturing industry in TEDA. Additionally, the TEDA government has actively signed strategic cooperation agreements with various education institutes to recruit talents for enterprises.

### Food and Grain Processing

According to statistics, Beijing and Tianjin can provide around 120,000 graduates from food-related majors.



Source: 2015 TEDA Sustainability Report

## 5.3 • Talent Team Building

### Talent Team Building in TEDA

In recent years, TEDA has enhanced its talent building by introducing external talents and training local talents, providing excellent sources of talents for the development of industries in TEDA.

47 career fairs held in 2015

22 human resource agencies

92 practice bases for the youth

3% of the government's disposable income used as "talent development funds"



### Vocational Education and Training

TEDA fully utilizes colleges and professional training resources to develop vocational education and skill training. So far, TEDA has built partnerships with more than 40 vocational schools, and has set up, upon the request of enterprises, 65 classes involving 3,120 trainees.

TEDA has also developed a three-year action plan for management of technician workstation, training methods for specialized talents, and training sessions. TEDA actively organizes various exhibitions to showcase employees' professional skills to improve respect for labor and skilled workers.

### Industry-University-Research System

TEDA has 68 post-doctoral workstations and 27 post-doctoral innovation practice bases, 95 in total. TEDA has signed agreements with Tianjin University of Technology, Tianjin Polytechnic University, Tianjin Normal University, Hebei University of Technology, Tianjin University of Science and Technology. In the future, TEDA will work with these colleges and universities in a series of long-term and comprehensive partnerships focusing on consultation for strategic decision-making, promotion of new industry development, improvement of enterprises' technological innovation capabilities, and stronger talent training. They will jointly build an innovation system focusing on cooperation among enterprises, universities and research institutions, and try to align the talent intelligence, R&D capabilities, and

advanced research achievements of universities with the industrial requirements of TEDA, so as to offer talents and intellectual support for the all-round economic and social development of the region.



### Living Services for Talents

Apart from TEDA EAST that is already offering comprehensive support facilities, the newly planned areas of TEDA are also improving their support facilities for personnel's living. By the end of 2015, TEDA had a total of 32 complexes for public housing, senior talent apartments, and blue-collar or white-collar apartments, covering a total area of 2.32 million m<sup>2</sup>, capable of accommodating 210,000 migrant workers.

Source: 2015 TEDA Sustainability Report, 2015 Statistical Bulletin

## 5.4 • Human Resource Costs

### Employee Salary

In 2015, labor remuneration in TEDA further increased. Total salaries of all the employees in TEDA enjoyed a 10.9% year-on-year growth and amounted to RMB 44.38 billion. Per capita labor remuneration reached RMB 88,000, which is an 11.7% year-on-year growth.

In 2015, per capita disposable income of urban residents in TEDA increased to RMB 45,997, an 8.1% growth over the previous year.

### Social insurance

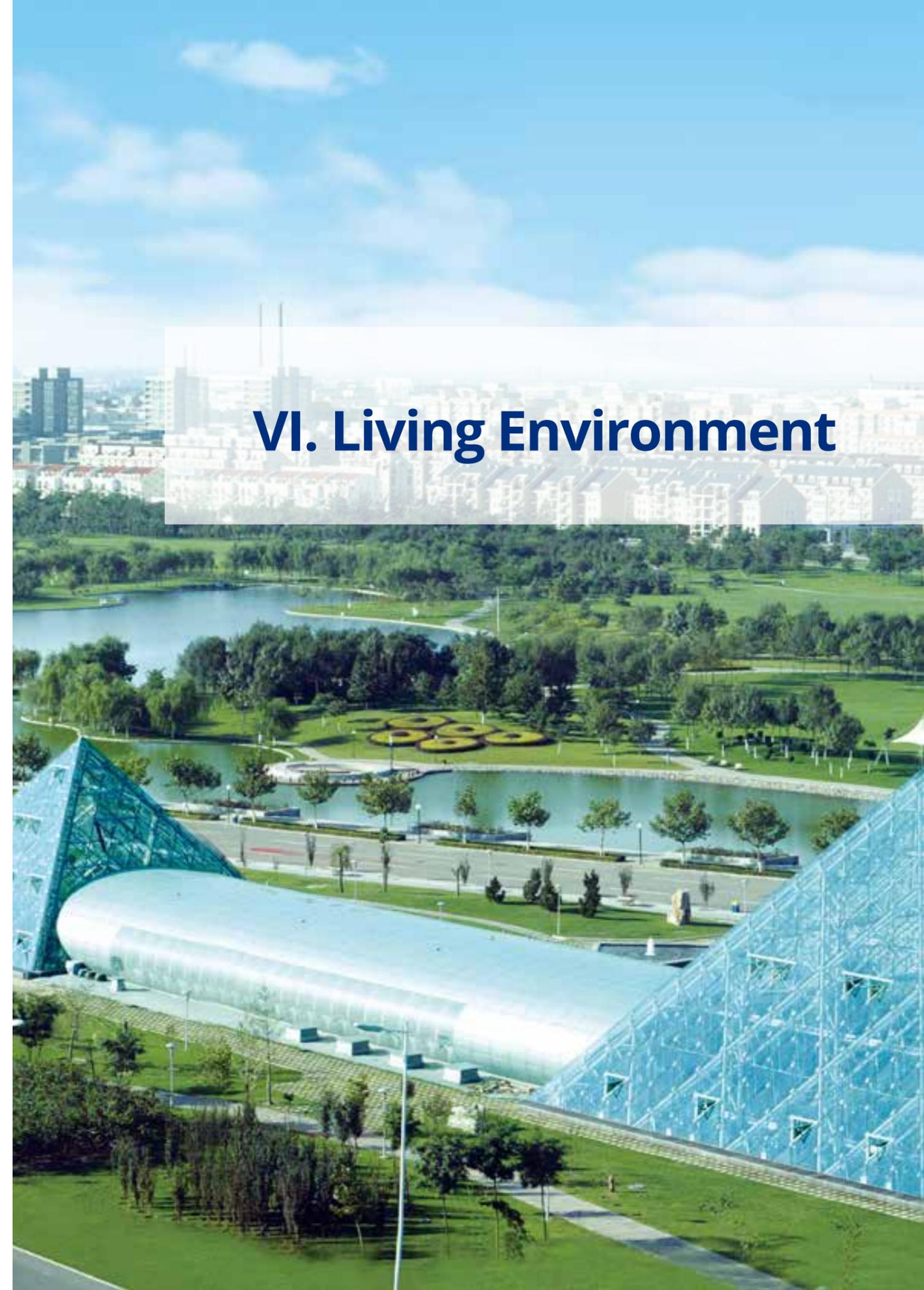
By the end of 2015, TEDA had 276,000 people with basic pension insurance and 286,000 with basic medical insurance. 6,272 companies and institutions had insured their personnel. Throughout the year, the payment for pension insurance, medical insurance, unemployment and work-related injury insurance, maternity insurance, and children's medical insurance amounted to RMB 7.36 billion, an increase of 4.9% over the previous year.

Average monthly wage and minimum wage of employees in Tianjin



Details of social security			
	Percentage of employer's contribution	Percentage of employee's contribution	Total
Pension insurance	19%	8%	27%
Medical insurance	11%	2%	13%
Unemployment insurance	1%	0.5%	1.5%
Work-related injury insurance	0.2%-1.9%	/	0.2%-1.9%
Maternity insurance	0.5%	/	0.5%
Housing fund	11%	11%	22%
Total	42.7%-44.4%	21.5%	64.2%-65.9%

Source: © 2015 TEDA Labor Remuneration Report © TEDA Administrative Service Platform © 2015 Statistical Bulletin



# Introduction

The living environment consists of living communities, community facilities and services, educational and medical resources, as well as cultural landscapes. A comfortable and pleasant living environment is a priority among investors, medium and high-end talents, and staff coming from overseas when they are considering where to invest and live.

TEDA boasts not only an outstanding natural environment, but also various recreational activities including cultural and sports events organized by the local government, enriching the life of the residents and the investors and strengthening their sense of identity and belonging. Since the beginning, TEDA has been committed to striking a balance among protecting the ecological environment, facilitating production, and ensuring a high standard of living for local residents, attracting both domestic and foreign investors.

### Corporate comment

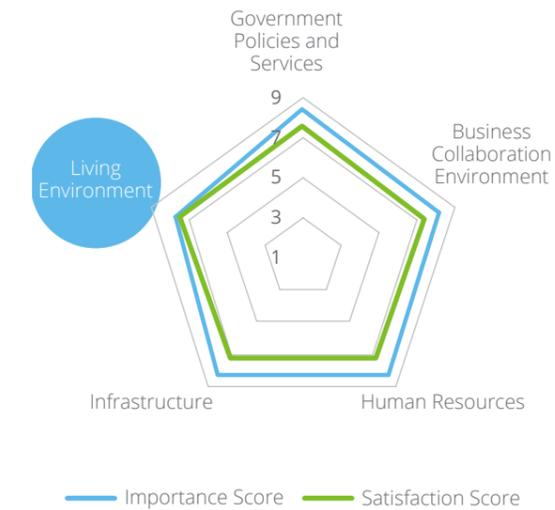
Comprehensive supporting facilities and services in TEDA offer its residents a very convenient life. There are many beautiful parks and gardens throughout the area, which have become ideal spots for relaxation. Many employees have chosen to move to the area because TEDA offers such high standards of living environment. TEDA Administrative Committee often organizes leisure activities for our employees and their children, encouraging a strong sense of cohesion amongst employees. We regard TEDA as, not only a workplace, but also home and community.

— Fitesa (China) Airlaid Co., Ltd.



## 6.1 • Living Environment – Research Summary

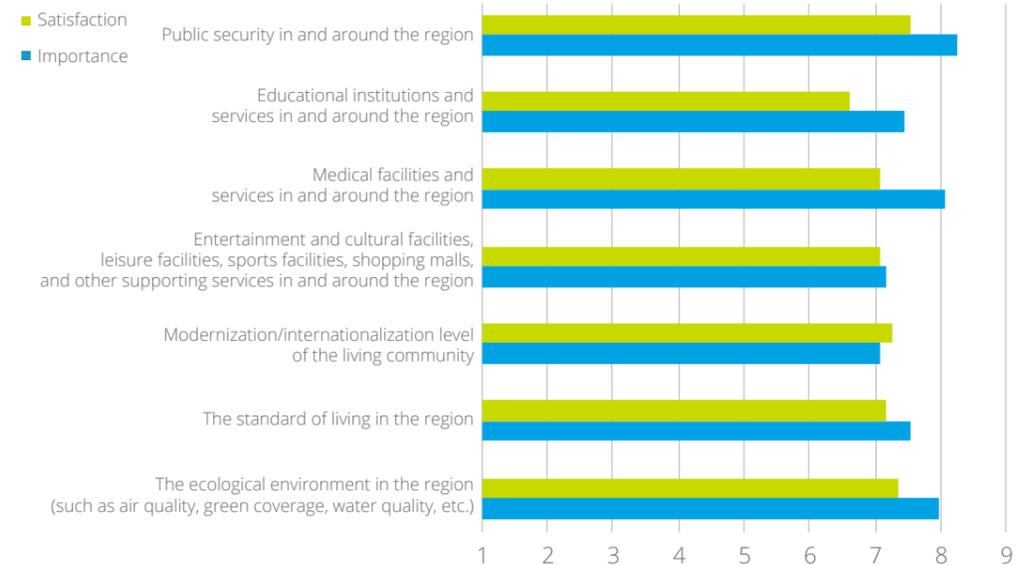
### Importance/Satisfaction of This Aspect



### Feedback on the Questionnaire for This Aspect

- The importance score for this aspect is 7.7 points.
- The satisfaction score for this aspect is 7.5 points.
- In this aspect, what participants believe to be the most important are: public security, medical facilities and services, and the ecological environment in and around the region.
- In this aspect, participants say that they are most satisfied with: public security, the ecological environment, and the modernization/internationalization level of the living community in and around the region.

### Segmentation of Importance/Satisfaction Living Environment



## 6.2 • Living Environment

### High-quality Ecological Environment

TEDA adheres to green development, and strives to incorporate concepts of environmental protection and ecological civilization into its overall regional plans as well as industry-specific plans. In recent years, TEDA Administrative Committee has endeavored to build TEDA into a green eco-industrial park by leveraging various advanced technologies and effective environmental protection measures.

**Water Quality**  
The quality of water remains stable. In 2015, the compliance rate of the quality of centralized drinking water was 100%.

**Green Coverage**  
By the end of 2015, the total green area reached 22,334,900 m<sup>2</sup>, with a green coverage ratio of 30%, of which the park area was 1,553,000 m<sup>2</sup>.

**H<sup>2</sup>O Air Quality**  
In 2015, the air quality reached Level 2 or above of China's Ambient Air Quality Standards in 210 days.

**Environmental Noise Level**  
In 2015, the average value of environmental noise in TEDA was 52.0 decibels, meeting the national environmental noise standards for urban areas.



### Modern Community

With respect to community building, TEDA has formed the "TEDA model" for community management, new medical and health service models, and a multi-level housing security system.

### Business and Living Support

Comprehensive support services for accommodation, food and beverage, shopping, and entertainment in TEDA provide residents and employees with various choices of lifestyle and entertainment options. Shopping, food and beverage, leisure, entertainment, and business facilities in TEDA MSD are all linked up to promote a high-quality consumption environment, a relaxed and pleasant consumption atmosphere, and unique people-oriented services, so that TEDA can provide the best areas for shopping, dining, leisure, and communication for families and business people in pursuit of an elegant lifestyle.

**9 communities and 9 neighborhood community committees**

**14 blue-collar apartments**

**3 white-collar apartments**

**2 top-talent apartments**



## 6.3 • Educational Resources

TEDA has already formed a complete educational system covering various education institutions ranging from pre-school to higher education, from general education to vocational education, and from government to non-government schools. With advanced protection mechanisms, the educational system of TEDA is now featured by fair, balanced, high-quality, and diversified development. With respect to elementary education, TEDA has stricken the good balance between quality education and exam-oriented education and has promoted education modernization by driving the process of internationalization and informatization. TEDA's well-established education not only meets the needs for quality education of the children of residents, investors, and builders, but also provides crucial support for optimizing the environment for attracting investment.



### Kindergarten

At present, TEDA has 10 kindergartens, including 5 public kindergartens, 3 publicly-owned and privately-managed kindergartens, and 2 private kindergartens.

TEDA's preschool education institutions provide comprehensive early childhood education for children of two and a half to five years old. TEDA's NO.1, NO.2, and NO.3 Kindergartens, Brown Kindergarten and Venus Kindergarten are all Level 1 (Type 1) kindergartens of Tianjin. TEDA has always insisted that pre-school education should be for public and general benefits, so in TEDA, problems of "difficult admission" and "expensive entry" are basically eliminated. In the meantime, TEDA is dedicated to promoting innovations in systems and mechanisms and improving educational quality, which increases the satisfaction of its residents.



### Primary and Secondary Schools

At present, there are 7 primary and secondary schools in TEDA, including 6 public schools and 1 private school. In 2012, TEDA took the lead in the city to reach the compulsory

education modernization construction standards on its first try and all educational indicators such as school culture and teaching facilities & equipment have achieved high levels in Tianjin. TEDA has always attached great importance to the balanced combination of quality education and exam-oriented education. On the one hand, TEDA's senior middle school and college entrance examination scores have been among the best in the city. On the other hand, primary and secondary schools within TEDA have continuously gained achievements in chorus, dancing, aerobics, volleyball, robotics, youth scientific and technological innovation, and other city-level and national competitions. Meanwhile, TEDA has built its own Wisdom Education Cloud by driving the process of internationalization and informatization and has improved education and teaching through information technology. In addition, it implements Education for International Understanding projects, equipping each school with foreign teachers to offer courses for each class.



### TEDA International School

TEDA International School (TIS) provides an outstanding educational program for students of all nationalities residing in TEDA from preschool to 12th grade. It has received accreditation from both the Western Association of Schools and Colleges (WASC) and the Council for International Schools (CIS).

At the same time, TIS is a member of East Asia Regional Council of Overseas Schools (EARCOS) and also a member of Association of China and Mongolia International Schools (ACAMIS). TIS follows the curriculum standards of "American Education Reaches Out (AERO)" and English is the instruction language at all academic levels and in all disciplines. Starting from 9th grade, students can attend Advanced Placement (AP) courses and other non-AP courses for numerous disciplines.



### Maple Leaf International School - Tianjin TEDA

Maple Leaf International School - Tianjin TEDA adheres to the principle of "combining excellent Chinese and Western education methods to foster international talent." So far, a considerable number of graduates have been admitted to the world's top 100 universities.

### International School of Tianjin

Located in Jinnan District, International School of Tianjin (IST) provides excellent education for the children of foreigners in Tianjin. IST is fully accredited by both the Western Association of Schools and Colleges (WASC) in the USA and the Council of International Schools (CIS) in Europe. The school is the only international school in Tianjin that is authorized to offer all three IB programs and the first one in Asia Pacific to receive joint examination by IB, CIS and WASC.



## 6.4 • Medical Facilities

TEDA is well capable of meeting people's medical needs. As of the end of 2015, TEDA has totally 114 medical institutions with 1,387 beds and 2,011 medical and technical personnel, 270 of whom have acquired the senior professional title. In the whole year, these institutions achieved a total patient throughput of 1,797,000.

### The number of various types of medical institutions in TEDA

Types of hospitals	Number
State-run general hospital	1
State-run specialized hospital	1
Society-run medical institution	36
Community health service center	1
Community health service station	12
Enterprise health station	58



TEDA Hospital

TEDA International Cardiovascular Hospital (or Taixin Hospital) is a Level-3 Grade-A public hospital specialized in cardiovascular diseases. As a pilot hospital in the national public hospital reform, it implemented an international management model and an innovative medical system. It has been accredited by the Joint Commission International (JCI) for three times. The hospital is founded by TEDA with a total investment of RMB 720 million and has a construction area of 76,000 m<sup>2</sup> and 500 beds. It is able to carry out all types of cardiovascular surgical operations and interventional operations, including conventional cardiovascular surgery and heart transplant.



Taixin Hospital



#### State-run specialized hospital

- TEDA International Cardiovascular Hospital

#### State-run general hospital

- TEDA Hospital

#### Society-run general hospital

- Tianjin Boai Hospital
- Tianjin Love Hospital
- Tianjin Western Hospital
- TEDA Zhenqing Hospital

#### Society-run specialized hospital

- Tianjin Coastal Hospital of Traditional Chinese Medicine

The TEDA Hospital (also known as TEDA Clinical Medical College of Tianjin Medical University) is a Level-3 public hospital which integrates medical service, scientific research, disease prevention, healthcare and rehabilitation. With a total investment of RMB 830 million, the hospital has a construction area of 78,000 m<sup>2</sup> and 510 beds. The hospital is strong in multi-disciplinary comprehensive emergency treatment and has established the domestically exemplary "trauma emergency center". Besides, its critical care medicine, neurology, otolaryngology, head and neck surgery, and orthopedics were certified as key disciplines of Binhai New Area.

Source: © 2015 TEDA Statistical Bulletin © Official website of TEDA International Cardiovascular Hospital © Official website of TEDA Hospital

## 6.5 • Leisure and Entertainment

### Cultural Facilities and Activities

TEDA not only provides its residents with various cultural and recreational facilities, such as TEDA Library, TEDA Contemporary Art Museum, Binhai Sky Fashion Boulevard, but also regularly organizes cultural and entertainment activities at regional, corporate, community, and school levels, including TEDA Summer Art Season, TEDA Classical Music Square Concert, campus art festivals, and artistic shows and performances for corporate employees and community residents. Besides, the Education, Culture, Health and Sports Bureau of TEDA has utilized platforms like community colleges, TEDA Youth Palace, TEDA Culture Center to offer free artistic training for teenagers, middle-aged or older adults. The Bureau also encourages artistic groups to engage in domestic and overseas cultural exchanges and contests.

The TEDA Summer Art Season, which started in 2015, has been the biggest highlight in TEDA's cultural branding activities. During the art season, artists from both China mainland and Taiwan arrived in TEDA and used this activity as a platform for creativity, creation, and communication. The season involved five major themes: "Art Knocking at the Door" — a large-scale installation art exhibition, Giuseppe Castiglione-Lang Shining digital art exhibition, Summer FUN creative bazaar, Heart of the Ocean group

dancing show, Weekend FUN interactive performances. Over 100 large-scale cultural activities on these themes were held during the season, presenting a wonderful visual feast to the residents of Tianjin and even the whole Beijing-Tianjin-Hebei region.





**TEDA Library:**  
By the end of 2015, the library had 470,000 kinds of books in 1.3 million volumes, 60 complete archives with 540,000 volumes (boxes), and 50 databases of digital resources. In 2015, the library received 450,000 visits of readers and lent out 176,400 books.

### Sports Facilities and Activities

As of the end of 2015, TEDA had 16 stadiums, 3 gymnasiums, 12 natatoria, 4 football stadiums and 20 athletic associations. Meanwhile, TEDA also held a series of national fitness activities such as the TEDA marathon, TEDA employee sports meeting, fun games in apartments, and TEDA primary and secondary school sports meeting.



Source: © 2015 TEDA Statistical Bulletin © TEDA Administrative Service Platform

## 6.6 • Cultural and Natural Landscape

With its more than 600-year-long history, Tianjin has evolved into a unique city that integrates both Chinese and Western elements and contains ancient and modern styles. Also, its profound history endows it with a rich cultural heritage. Besides its cultural landscapes, Tianjin has numerous unique natural resources and landscapes as well.



### Ancient Culture Street

Tianjin's Ancient Culture Street is one of the "Top Ten Attractions of Tianjin". The street has nearly 100 stores, which include not only time-honored stores and shops of folk arts and craft, but those offering authentic Tianjin traditional delicacies such as Goubuli Stuffed Baozi, 18th Street Fried Dough Twists, and Erduoyan Fried Glutinous Rice Cake.

**Mount Pan**  
Listed as one of China's top 15 attractions, Mount Pan is known for "the pines at its top, the rocks at its middle, and the springs at its foot". It is also called the "best mountain to the east of Beijing".



Source: Tianjin Tourism Information Network

## 6.6 • Cultural and Natural Landscape (continued)



### Tianjin Water Park

The Tianjin Water Park, formerly known as "Green Dragon Pond", is the largest comprehensive park in Tianjin. As a famous scenic spot, it is compared to "the West Lake in Northern China". The name of the park comes from the three lakes (east lake, west lake and south lake) and eleven islands in it. The Water Park covers a water area of 750,000 m<sup>2</sup> and a land area of 500,000 m<sup>2</sup>, and its green area reaches 350,000 m<sup>2</sup> with nearly 200 kinds of flowers and trees.

### Haihe River

As one of the "Top Ten Attractions of Tianjin", Haihe River runs 72 km, meandering through the city and into the Bohai Sea. It forms a unique sightseeing route, providing scenic views including the beautiful Haihe Park, the famous Wanghailou Church, and the magnificent old railway station. At night, the gorgeous night scene of Haihe River gives visitors a unique experience.



### Eye of Tianjin

The Yongle Bridge Tianjin Eye is a cross-river construction which combines the bridge and a Ferris wheel, the only one in such form in the world, and it is also a landmark of Tianjin. The Ferris wheel takes 30 minutes to rotate one circle. Reaching the highest point, you can enjoy the landscape within 40 km, so it is known as the Eye of Tianjin.

### Five Great Avenues

The Five Great Avenues, also known as the World Architecture Expo Garden, has more than 2,000 garden-style houses in the architectural styles of Britain, France, Italy, Germany, and Spain built in the 1920s and 1930s. In addition, President of the Republic of China Cao Kun, U.S. President Hoover, and hundreds of other Chinese and foreign celebrities also lived here.



Source: Tianjin Tourism Information Network

# Summary



## 1 Stable and transparent government policies, efficient and standardized government services

In Deloitte's interviews and surveys with enterprises in TEDA, many of them used words such as "standardized", "sincere", "efficient" to describe TEDA Administrative Committee's flexible style, strategies that truly help enterprises to develop and thoughtful follow-up management services offered by the investment attraction and administrative departments.

TEDA sticks to the principles of "Open, Fair, Efficient and Transparent", keeping policies of every level open to the public and ensuring fulfilling each stage of policies efficiently. Apart from that, the Committee is not dogmatic. Influenced by the open and inclusive atmosphere of TEDA and the flexible policies, the staff members are willing to see things from the perspective of enterprises and will not remain unengaged and uncommitted.

## 2 Dedication to technology innovation, transformation and upgrading

TEDA implements innovation-driven strategies with commitment. It will drive innovative development by transformation and upgrading to enhance the scale and quality of the local economy. It adheres to integrating technological and economic development, industrial and urban development to improve the supply of talents, carriers, platforms, policies and services, forming an open, agile, low-cost innovative and entrepreneurial system for a deep integration of emerging technologies and new industries, helping innovative enterprises to develop rapidly.

Meanwhile, TEDA will implement an innovation-driven and industry-driven open development model. Based on the nine leading industries with advanced manufacturing playing a major role, it will build a "5+1+N" high-end industry system by improving stock adjustment capability, increment and capacity and consolidating existing advantages. It will build a coordinated and upgraded industrial area with an integration of advanced manufacturing, productive services and conversion from R&D outcomes to products, becoming "a landmark area leading regional economy, attracting

advanced manufacturing R&D, boosting innovation and providing decent living environment."

## 3 Well-developed infrastructure and business facilities

After years of work, the Committee has gained recognition from enterprises in TEDA and made great achievements in infrastructure construction. The adequate supply of energy and land ensures sound business operation and development of the enterprises. Business facilities such as modern and international exhibition centers, office buildings, plants and hotels meet all kinds of business cooperation demands; sufficient educational, medical and recreational resources provide a favorable environment for employees to live in.

In the future, TEDA will continue to develop circular economy, create a "green closed loop" by saving energy and reducing emission, and develop ecological civilization for efficient use of resources. It will keep serving enterprises in TEDA and investors with a livable and beautiful environment.

Looking forward from a perspective of national macro strategy, regional economic cooperation within the Bohai Rim region and the Beijing-Tianjin-Hebei region, together with the signing of the "City Linkage" Agreement between Beijing and Tianjin, all have great strategic importance to TEDA. TEDA will make long-term plans based on its advantages and use resources efficiently, establishing cooperation platforms according to varied resources and deepening cooperation, to boost rapid and high-quality growth of regional economy and to serve national strategies.

From the perspective of TEDA, it has proposed the "One-Four-Three-Three-Five"<sup>1</sup> development goals and principles to take real economy development as its emphasis and center of work, concentrating on strengthening leading industries to maintain its position as the forerunner among all national development areas!

In the end, we are sincerely grateful for the support and information-sharing of the TEDA Administrative Committee and all the insights from enterprises participated in the surveys and deep interviews of Deloitte.

Note: 1. "One": a general goal, i.e. "TEDA will be the main force and vanguard to achieve the '13th Five-Year Plan' of Tianjin and the Binhai New Area". "Four": four functions, i.e. "an area to lead regional economy growth, to cluster advanced manufacturing R&D, to promote innovation, and to create a beautiful and livable environment for living". "Three": adhere to the three principles of development. First, adhere to the principle of "improvement", i.e. "achieving the simultaneous improvement of strength and vitality to drive the improvement in size, quality and efficiency"; second, adhere to the principle of "integration", i.e. "achieving the integration of technological and economic development, industrial and urban development"; third, adhere to the principle of "continuity", i.e. "achieving continuous growth in leading competitive industries, emerging industries and cutting-edge industries to promote transformation and upgrading in all TEDA parks, helping them achieve sustained development". "Three": three main driving forces, i.e. "innovation, opening-up and industry". "Five": five development guarantees, i.e. "guarantees of human resources, systems and mechanisms, services and management, development carriers and safety and security".

# Appendix

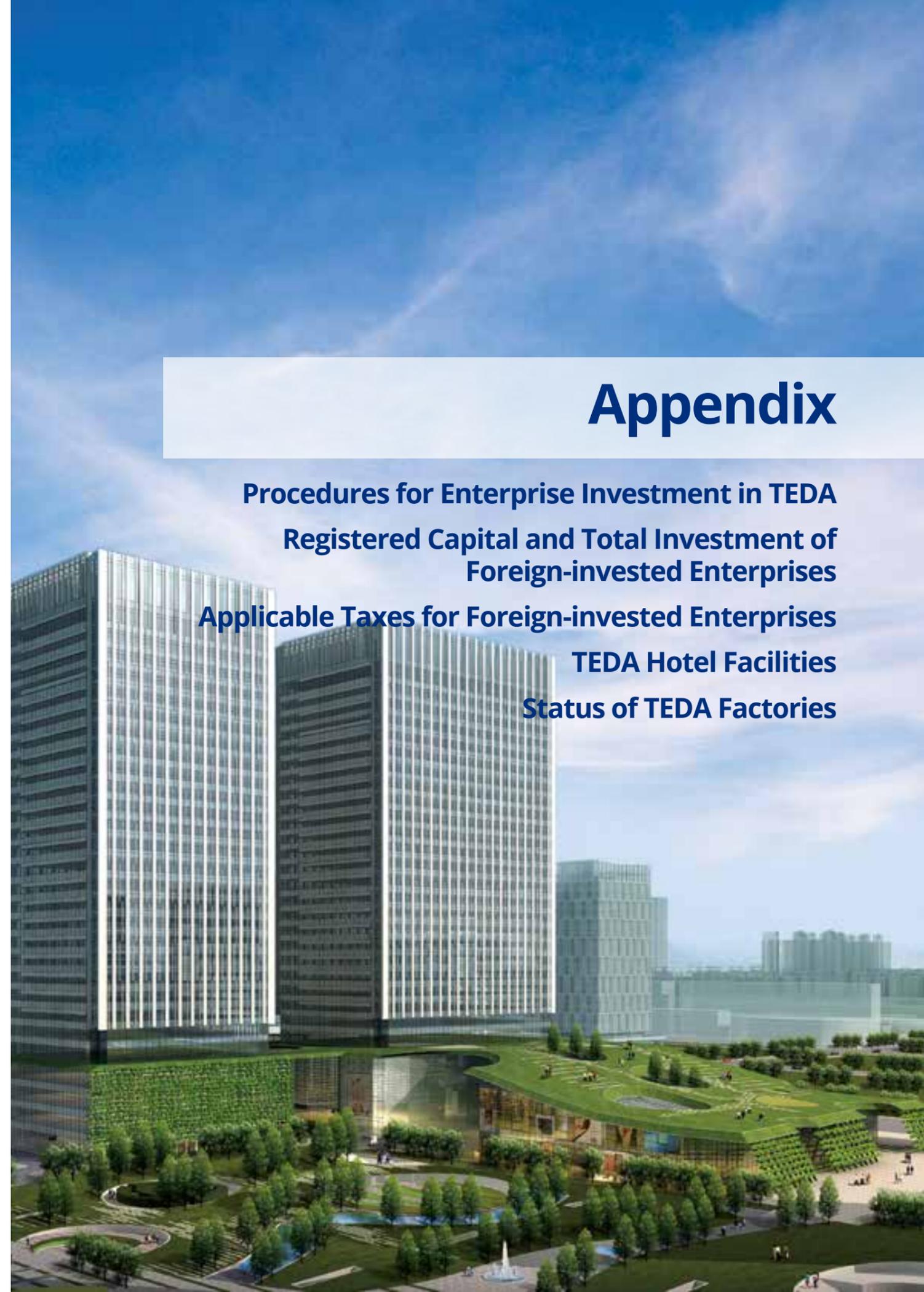
## Procedures for Enterprise Investment in TEDA

## Registered Capital and Total Investment of Foreign-invested Enterprises

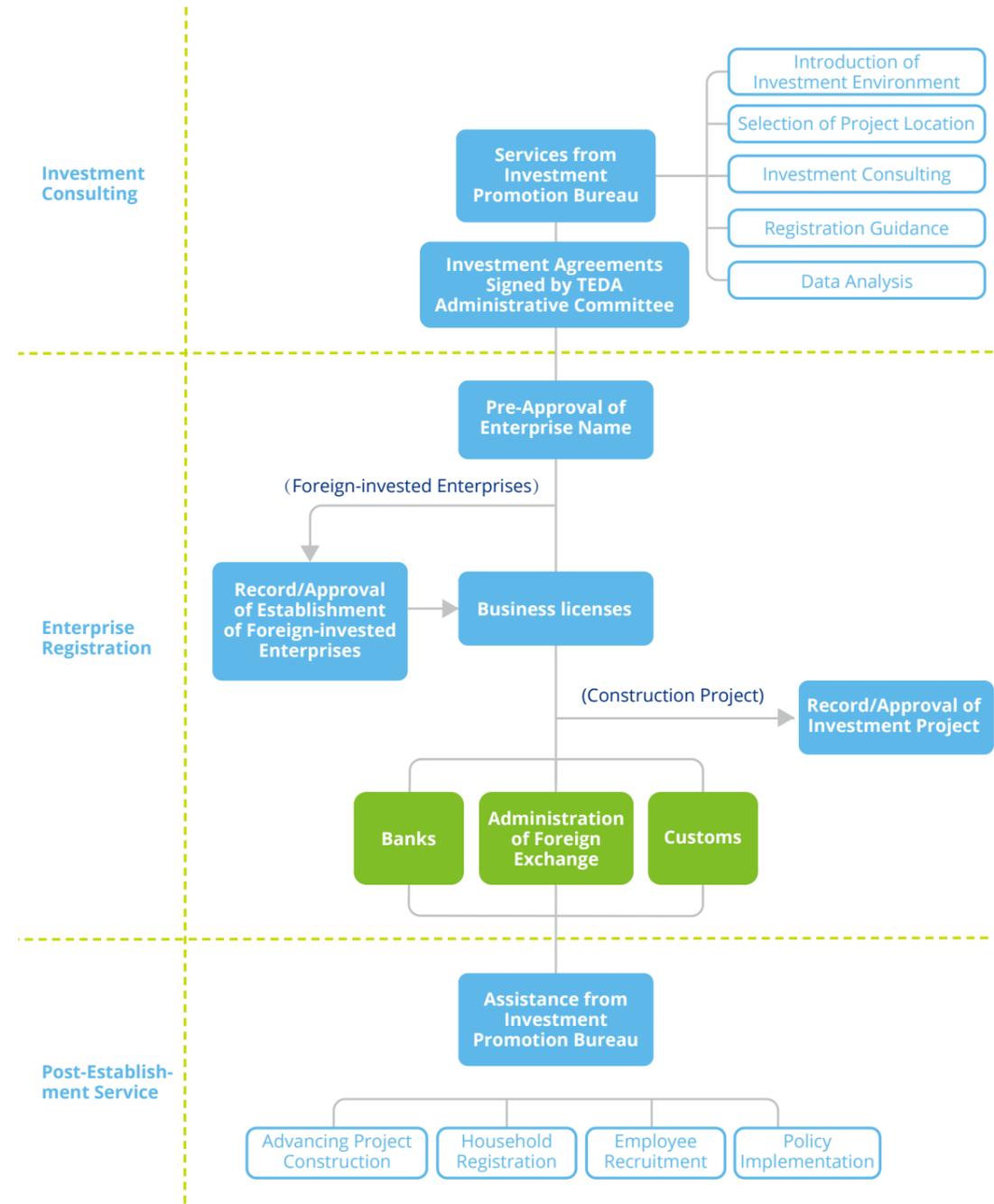
## Applicable Taxes for Foreign-invested Enterprises

## TEDA Hotel Facilities

## Status of TEDA Factories



# Appendix 1: Procedures for Enterprise Investment in TEDA



\* Note: for more details, please visit TEDA Administrative Service Platform (www.teda.gov.cn) - Investment Channel.

# Appendix 2: Registered Capital and Total Investment of Foreign-invested Enterprises

## Means of Investment<sup>1</sup>

Foreign investors can invest with convertible currencies, cross-border RMB or equivalent means of investment such as machines, industrial property rights or proprietary technologies. Having been approved by local authorities, foreign investors can invest with RMB profits generated from other foreign-invested companies in China.



## Requirement for Investment<sup>2</sup>

The registered capital of limited liability companies is the amount of capital contribution of all shareholders registered. If the law, administrative regulations and the decisions of the State Council make requirements on the paid registered capital of limited liability companies or the minimum amount of the registered capital, then the said requirements should prevail and be met.

The shareholders should pay the full contribution specified in the Articles of Association on time. Shareholders who plan to make their contribution in currency should deposit the full amount in the bank account set by the limited liability company; shareholders making their contribution in non-currency means should transfer its property right according to the law. The shareholders who do not make their contribution according to the preceding paragraphs should bear the liability for breach of contract for shareholders who make full contribution on time, in addition to paying the full contribution.

## The Ratio of the Total Amount of Investment to the Registered Capital<sup>3</sup>

The ratio of registered capital to the total amount of investment should meet the statutory requirements. The ratio is also applicable to the capital increase of foreign-invested companies, but only to the increased part, not to the total investment amount.

The Total Amount of Investment	Registered Capital
Over USD 30 million	The registered capital should be at least 1/3 of the total investment. When the total amount is below USD 36 million, the registered capital should be at least USD 12 million.
USD 10 million-USD 30 million	The registered capital should be at least 40% of the total investment. When the total amount is below USD 12.5 million, the registered capital should be at least USD 5 million.
USD 3 million-USD 10 million	The registered capital should be at least 50% of the total investment. When the total amount is below USD 4.2 million, the registered capital should be at least USD 2.1 million.
Below USD 3 million	The registered capital should be at least 70% of the total investment.

Source: 1. Rules for the Implementation of the Law of the People's Republic of China on Foreign-invested Enterprises (Decree of the State Council [2014] No. 648); 2. Company Law of the People's Republic of China (Order of the President [2013] No. 08); 3. Interim Provisions of the State Administration for Industry and Commerce Concerning the Proportion of Registered Capital and Total Amount of Investment of Chinese-foreign Equity Joint Ventures (GongShangQiZi [1987] No. 38)

## Appendix 3: Applicable Taxes for Foreign -invested Enterprises

Income Taxes	Taxation Scope	Tax Rate
<b>Business Income Tax</b>	Resident companies have to pay income tax for their income generated within China and abroad. Non-resident companies have to pay income tax for their income generated within China and income generated abroad but directly related to its Chinese institutes or venues.	Statutory Tax Rate: 25% Small Low-profit Company Tax Rate: 20% High-tech Company Tax Rate: 15% Withholding Rate at Source: 10%
<b>Individual Income Tax</b>	Individuals who live in China with or without residence for a year need to pay tax for their income generated within China and abroad. Individuals who have no residence and do not live in China or live in China without residence for less than a year need to pay tax for their income generated within China. 11 items are counted as individual income including wage and remuneration, etc. for personal services.	Statutory Tax Rate: 3%-45%
Turnover Taxes	Taxation Scope	Tax Rate
<b>Value-added Tax</b>	Entities and individuals engaging in sale of goods or provision of processing and repair labour services or importation of goods, and sale of services, intangible assets or immovables within the territory of the People's Republic of China need to pay value-added tax.	Statutory Tax Rate: 0%, 6%, 11%, 13%, 17%
<b>Consumption Tax</b>	Organizations or individuals who produce, process under commission, import or sell taxable consumer goods need to pay consumption tax depending on the price or the sales volume. There are 16 types of taxable consumer goods including tobacco, alcohol and cosmetics, etc.	Statutory Tax Rate: 1%-56%
<b>Tariff</b>	The consignee of imported goods, consignor of exported goods and the owner of the goods need to pay tariff.	Leaves Out
Other Taxes	Taxation Scope	Tax Rate
<b>Property Deed Tax</b>	Organizations and individuals who receive transferred land and house ownership need to pay property deed tax according to the price of the property.	Statutory Tax Rate: 3%-5%
<b>Property Tax</b>	The owner of title of house property in urban regions needs to pay property tax according to the dutiable value or the rental income of the property.	Statutory Tax Rate (according to dutiable value): 1.2% Statutory Tax Rate (according to rental income): 12%
<b>Increment Tax on Land Value</b>	Organizations and individuals who transfer the right of use of state land, above-ground buildings and their attached objects and gain revenue need to pay increment tax on land value according to the added value.	Statutory Tax Rate: 30%-60%
<b>Stamp Tax</b>	Organizations and individuals who execute or receive taxable documents within the territory of China need to pay stamp tax according to the amount of the documents or the value of the documents.	Statutory Tax Rate (according to the value of the document): 0.005%-0.1% By Piece: 5 RMB/piece

Source: State Administration of Taxation (by April 30, 2016)

## Appendix 4: TEDA Hotel Facilities

Name of Five-star Hotels	Number of Rooms	Conference Facilities
<b>TEDA Marriott Executive Apartments</b>	368	12 multifunction conference rooms And over 6,000 m <sup>2</sup> meeting and banquet spaces
<b>Renaissance Tianjin TEDA Hotel</b>	543	A conference room for 800 people 2 banquet halls for 2,000 guests 13 medium-small size conference rooms
<b>Ruiwan New Century Hotel Tianjin</b>	302	11 conference rooms of different specifications A 400 m <sup>2</sup> banquet hall
<b>Sheraton Hotel</b>	322	A 700 m <sup>2</sup> pillar-less grand banquet hall 8 multifunctional halls
<b>TEDA International Hotel</b>	398	A grand conference room for maximum 400 people 6 medium-small conference rooms
<b>Holiday Inn Tianjin Binhai</b>	247	11 conference rooms A 700 m <sup>2</sup> banquet hall

# Appendix 5: Status of TEDA Factories – Industrial Plants

## Appendix 1:

Industrial Plants in TEDA (July 14, 2016)										
Number	Name	Construction Area (m <sup>2</sup> )	Area Occupied (m <sup>2</sup> )	Location	Type of Structure	Number of Storeys	Floor-to-Floor Height	Span	Ground Bearing Capacity	
1	C-type Plant	3191.09 (double-storey office: 253)		TEDA East	Light steel	Single storey	Net height 6m	30*1	2T/m <sup>2</sup>	
2	A-type plants in industrial parks	3605m <sup>2</sup> , including: Office areas: 605m <sup>2</sup> Workshops: 3000m <sup>2</sup>	1802.77	TEDA East	Frame structure	2-storey	Net height: 3.7m	30m	Storey 1: 2T Storey 2: 0.5T	
3	D-type plants in industrial parks	5188m <sup>2</sup> , including: Office areas: 1050m <sup>2</sup> Workshops: 4138m <sup>2</sup>	4526		Steel structure	Single storey	Net height: 6.7m	60m	2T	
4	Plant A	Storey 1: 523.62m <sup>2</sup> Storey 2: 520.87m <sup>2</sup>		TEDA East	Frame structure	2-storey	Storey 1: 5m Storey 2: 4.2m	27*18	Storey 1: 2T/m <sup>2</sup> Storey 2: 400kg/m <sup>2</sup>	
5	Multi-storey plant	15050.9	6741	TEDA East	Frame structure	3-storey	4.9m		4T/m <sup>2</sup>	
6	Multi-storey plant	2000				4-storey	4.35m			
7	New Plant	3229		TEDA East	Steel-reinforced concrete	Single storey	Warehouse: 8.6m Workshop: 6.6m		Main storey: 10T/m <sup>2</sup>	
8	Plant	1400		TEDA East	Steel-reinforced concrete	3-storey	4.5m		0.5T/m <sup>2</sup>	
9	Plant	3946.48	9120.13	Yat-Sen Scientific Industrial Park	Steel structure	Partially double-storey				
10	Plant	3000		TEDA West	Steel-reinforced concrete	2-storey and partially 3-storey	4.5m	38*75m	0.5T/m <sup>2</sup>	
11	Office area	627*3								
12	Plant	4200		TEDA East	Light steel	Single storey				
13	Plant	28000	51000	TEDA West	Light steel	Single storey	8.9m			
14	Warehouse	20000		TEDA East		Single storey	One with 9m One with 12m			
15	Warehouse	3000				Single storey				
16	Yard	40,000-50,000m <sup>2</sup>								
17	Plant 1 and Plant 2	5760		Yat-Sen Scientific Industrial Park		1	12			
18	Plant 3 and Plant 4	2880				1	12			
19	Plant 5	1080				1	12			
20	Plant	5500	100000	TEDA West	Light steel structure	Single storey	12m		30 T/m <sup>2</sup>	
21	Office building	2406.70	867.91	Micro-Electronics Industrial Park	Frame structure	3	13.05m	37.9 m		
22	Plant	4876.16	4876.16	Micro-Electronics Industrial Park	Steel structure	1	7m	207.94m	3 T/m <sup>2</sup>	
23	Plant 5#	Single storey: 6,000m <sup>2</sup> ; Total area: 18,000m <sup>2</sup>	6000	Central District	Brick and concrete structure	3	Storey 1: 6.5m Storey 2 and 3: 4.5m	Length: 126.5m Width: 43.6m	Storey 1: 3T/m <sup>2</sup> ; Storey 2 and 3, each with 1.5T/m <sup>2</sup>	
24	Plant 6#	Single storey: 6,000m <sup>2</sup> ; Total area: 18,000m <sup>2</sup>	6000	Central District	Brick and concrete structure	3	Storey 1: 6.5m Storey 2 and 3: 4.5m	Length: 126.5m Width: 43.6m	Storey 1: 3T/m <sup>2</sup> ; Storey 2 and 3, each with 1.5T/m <sup>2</sup>	
25	Plant 8#	Single storey: 6,000m <sup>2</sup> ; Total area: 18,000m <sup>2</sup>	6000	Central District	Brick and concrete structure	3	Storey 1: 6.5m Storey 2 and 3: 4.5m	Length: 126.5m Width: 43.6m	Storey 1: 3T/m <sup>2</sup> ; Storey 2 and 3, each with 1.5T/m <sup>2</sup>	

\* Note: for more details, please visit TEDA Administrative Service Platform (www.teda.gov.cn)- Investment Channel.

# Appendix 5: Status of TEDA Factories – Office Space

## Appendix 2:

Statistics of Office Space in TEDA (June 11, 2015)									
Number	Name	Address	Notes						
1	Office space	TEDA East		22856.91	2443				
			Office building (Partition B):	3628.89	811	Frame structure	5	Main storey: 4.2m; other storeys: 3.6m	Storeys 1-2: 820m <sup>2</sup> /storey; Storeys 3-4: 740m <sup>2</sup> /storey; Storey 5: 696m <sup>2</sup>
			Office building (Partition C):	8924.36	1113	Frame structure	8	Same as those of Partition A/ storey 8: 3.9m	Storey 1: 1,113m <sup>2</sup> ; Storey 2: 1,158m <sup>2</sup> ; Storeys 3-4: 1,057m <sup>2</sup> Storeys 5-8: 998m <sup>2</sup>
			Apartment building (Partition A)	10303.66	519	Shear wall structure	17	Main storey: 3.2m; other storeys: 2.8m	Storey 1: 440m <sup>2</sup> ; Storey 2: 432m <sup>2</sup> ; Storeys 3-17: 568m <sup>2</sup> ; Underground: 518m <sup>2</sup>
2	Office space	TEDA East	Totally 16 storeys and one basement with each covering 973 m <sup>2</sup> , and 11,758m <sup>2</sup> unoccupied						
3	Office space	TEDA East	1566 m <sup>2</sup> of office space in the 6th Avenue, 800 m <sup>2</sup> in the 2th Avenue						
4	Office space	TEDA East	Storey 6 (680 m <sup>2</sup> ), Storey 8 (640 m <sup>2</sup> ) and 6 parking spaces in Building 3, West Block, Financial Street						
5	Office space	TEDA East	Types of spaces available: 20-40m <sup>2</sup> , 60m <sup>2</sup> , 70m <sup>2</sup> , 90m <sup>2</sup> , 140m <sup>2</sup> and 222m <sup>2</sup>						
6	Office space	TEDA East	Decorated spaces range from 30-200 m <sup>2</sup> , with central air-conditioning						
7	Office space	TEDA East	Roughcast house (1000m <sup>2</sup> )						
8	Office space	Hangu Modern Industrial Park							
9	Office space	TEDA Wit Valley - Chadian	Construction area: 4,722m <sup>2</sup> .						
10	Office space	TEDA East	Number of storeys: 5; total area: 6,015m <sup>2</sup> ; floor space by storey: storey 1 – 264m <sup>2</sup> , storey 2 – 1,485.43 m <sup>2</sup> , storey 3 – 1,426.64 m <sup>2</sup> , storey 4 – 1,419.39 m <sup>2</sup> , storey 5 – 1,419.39 m <sup>2</sup> . Storey height: storey 1 – 4m, storey 2 – 4.5m, storey 3 – 4.2m, storey 4 – 4.2m, storey 5 – 4.2m. Infrastructure: cold and hot water, electricity, central air conditioning, heating, network, telephone lines, and closed-circuit monitors. Decoration: simple decoration starting from June 2015 (now in progress)						

\* Note: for more details, please visit TEDA Administrative Service Platform (www.teda.gov.cn)- Investment Channel.

## Appendix 5: Status of TEDA Factories – Blue- and White-collar Apartments

### Appendix 3:

Statistics of Blue- and White-collar Apartments within TEDA (October 27, 2016)				
Category	Name	Address	Status	Notes
Top-talent apartments	Cuiheng Apartment	TEDA East	In operation	
	Yinzhu Apartments	TEDA East	In operation	
White-collar apartments	Ruijia Apartments	TEDA East	In operation	
	Ruixin Apartments	TEDA East	In operation	
	Ruida Apartments	TEDA East	In operation	
	Hangtian Apartments	TEDA West	In operation	
Blue-collar apartments	Tianbin Apartments	TEDA East	In operation	Can accommodate 15,000 people and 2,000 have moved in.
	Tianrun Apartments	TEDA East	In operation	
	Tianhai Apartments	TEDA East	In operation	
	Tianjiang Apartments	TEDA East	In operation	
	Tianze Apartments	TEDA East	In operation	Can accommodate 2,800 people
	Tianxiang Apartments	TEDA East	In operation	
	Tianfu Apartments	TEDA East	In operation	
	Guoxiang Apartments	TEDA West	In operation	
	Haiyan Apartments	TEDA West	In operation	
	Tianbo Apartments	TEDA West	In operation	
	Apartments in Micro-electronics Industrial Park	Micro-electronics Industrial Park	In operation	
	Dacheng Apartments	Yat-Sen Scientific Industrial Park	In operation	
	Yicheng Apartments	Yat-Sen Scientific Industrial Park	In operation	
	Zhicheng	Yat-Sen Scientific Industrial Park	In operation	
	TEDA North Apartments	TEDA North	In operation	
	Tianhong Apartments	TEDA West	In operation	

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\* Note: for more details, please visit TEDA Administrative Service Platform ([www.teda.gov.cn](http://www.teda.gov.cn))- Investment Channel.

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