

Report on the Industry 4.0 Market in China

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Abstracts

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The concept of Industry 4.0 was first introduced at the Hannover Industry Expo in Germany with its goal being to use IoT technologies to improve the German manufacturing industry and create resource efficient, adaptable and ergonomic smart factories. Since then most countries all over the world have been proposing development plans of their own and are a step closer to making Industry 4.0 a reality. The foundation of Industry 4.0 is based upon data, which includes product data, operation data, industry chain data, external data and others. Related industries include smart machine tools, industrial automation, industrial IoT, high-end robotics, RFID tag technology, sensors and 3D printing industries.

The secondary industry in China produced a total of XX billion CNY in 2018, and has secured China's status as a major manufacturing power in the world. The lack of innovation, reliance on foreign manufacturers for core parts and an illogical industry structure are some of main problems plaguing China's industrial landscape, and thus is at a marked disadvantage compared to countries with advanced industrial landscapes such as the US, Japan and Germany.

Industry 4.0 and its core tenets of connectivity and intelligence will be of immense assistance towards improving the efficiency of China's manufacturing industry labor, and will also assist in raising product quality thus allowing it to truly transition from a major presence to the leading manufacturing country in the world. Current times are considered a crucial point in the race to becoming an Industry 4.0 country, and China is positioned to take advantage of any strengths it may possess as well as any opportunities it may chance upon along the way.

According to China's plans for Industry 4.0, Industry 4.0 will primarily benefit the IT,

biomedical, biomanufacturing, high-end equipment manufacturing and new energy industries amongst other industries.

There are numerous opportunities for investment in the Industry 4.0 industry chain. Companies in the business of automated manufacturing lines, robotics, sensors, industry intranet machine providers are expected to display the first results of their labors in the next 2 years, while software and hardware solution providers and smart factory solution providers are expected to begin to display the results of research within 3-5 years. Cloud service providers and 3D printing firms are expected to display a great deal of potential within 5-10 years.

Contents

CHAPTER 1 INDUSTRY 4.0

- 1.1 Introduction to Industry 4.0
 - 1.1.1 Concepts
 - 1.1.2 Development history
- 1.2 Three main themes
 - 1.2.1 Smart factories
 - 1.2.2 Smart manufacturing
 - 1.2.3 Smart logistics
- 1.3 Characteristics of Industry 4.0
 - 1.3.1 Interconnectivity
 - 1.3.2 Integration
 - 1.3.3 Big data
 - 1.3.4 Innovation
 - 1.3.5 Transitory development
- 1.4 Industry 4.0 development implications
 - 1.4.1 Macroeconomic growth
 - 1.4.2 Changes to current manufacturing methods
 - 1.4.3 Induces transitory changes in industry
 - 1.4.4 Lifestyle changes to employees

CHAPTER 2 CHINESE INDUSTRY 4.0 DEVELOPMENT ANALYSIS

- 2.1 Development overview
 - 2.1.1 Development background
 - 2.1.2 Advantages
 - 2.1.3 Development achievements
- 2.2 Development progress
 - 2.2.1 Key areas for development
 - 2.2.2 Development modes
 - 2.2.3 Development methods
 - 2.2.4 Sino-German cooperative efforts
 - 2.2.5 Development blueprints
- 2.3 Industry 4.0 supply chain analysis
 - 2.3.1 Upstream
 - 2.3.2 Midstream
 - 2.3.3 Downstream

2.4 Four core components

2.4.1 Integration

2.4.2 Smart equipment

2.4.3 Interconnectivity

2.4.4 Data

2.5 Development barriers

2.5.1 Standardization

2.5.2 Management system complexity

2.5.3 Communication infrastructure

2.5.4 Network security measures

2.6 Development strategies

2.6.1 Improved communication between countries

2.6.2 Encouraging test locations

2.6.3 Creating safety mechanics

2.6.4 Inducing corporate transitions

CHAPTER 3 INDUSTRY 4.0 TECHNOLOGIES AND INFRASTRUCTURE

3.1 Sensors

3.1.1 Sensor industry overview

3.1.2 Sensor market scale

3.1.3 Competitiveness

3.1.4 Sensor market development prospects

3.2 Industrial IoT

3.2.1 Development scale

3.2.2 Development status

3.2.3 Industrial IoT development prospects

3.2.4 Internet+ development directions

3.3 Big data

3.3.1 Industry overview

3.3.2 Data generation scale

3.3.3 Global big data market analysis

3.3.4 Chinese big data market analysis

3.3.5 big data market characteristics

3.3.6 Technologies and product innovation

3.3.7 Commercial intelligence prospects

3.4 Cloud computing

3.4.1 Overview

3.4.2 Global markets

- 3.4.3 Chinese markets
- 3.4.4 Segment markets
 - 3.4.4.1 IaaS
 - 3.4.4.2 PaaS
 - 3.4.4.3 SaaS
- 3.4.5 Development characteristics
- 3.4.6 Development overview
- 3.5 Industrial Intranet
 - 3.5.1 Connector types
 - 3.5.2 Advantages
 - 3.5.3 Applications
 - 3.5.4 Competitiveness analysis
 - 3.5.5 Development trends
- 3.6 Communication networks
 - 3.6.1 Development overview
 - 3.6.2 Development scale
 - 3.6.3 As one of the bases of Industrial 4.0
 - 3.6.4 Development prospects

CHAPTER 4 KEY LOCATIONS IN THE CHINESE INDUSTRY 4.0 LANDSCAPE

- 4.1 Guangdong Robotics industry
 - 4.1.1 Related policies
 - 4.1.2 Development overview
 - 4.1.3 R&D capabilities
 - 4.1.4 Development barriers
 - 4.1.5 Shenzhen developments
- 4.2 Quanzhou City
 - 4.2.1 Development overview
 - 4.2.2 Development objectives
 - 4.2.3 Demonstration zones
 - 4.2.4 Quanzhou 2025
- 4.3 Tianjin City
 - 4.3.1 Development objectives
 - 4.3.2 Core industry
 - 4.3.3 Transitory developments
 - 4.3.4 Development methods
 - 4.3.5 Strategies
- 4.4 Other regions

4.4.1 Qingdao

4.4.2 Liaoning

4.4.3 Zhejiang

CHAPTER 5 DEVELOPMENT TRENDS AND PROSPECTS

5.1 Development prospects

5.1.1 Automated systems' horizontal connections

5.1.2 Vertical connections between corporate management systems and manufacturing

5.1.3 Open standards based standardized communication networks

5.1.4 Mobile technologies and virtualization

5.2 Development directions

5.2.1 Industrial automation

5.2.2 Industrial IoT

5.2.3 Industrial robotics

5.2.4 3D printers

5.2.5 Sensors

5.2.6 Smart tools

5.3 Development predictions

5.3.1 Chinese vehicle industry production volume predictions

5.3.2 Industrial robotics market scale predictions

5.3.3 Industrial IoT market scale predictions

5.3.4 Big data industry scale predictions

CHAPTER 6 INVESTMENT OPPORTUNITIES AND RISKS

6.1 Investment opportunities

6.1.1 Investment directions

6.1.2 Communications investment opportunities

6.1.3 Smart hardware

6.1.4 IoT

6.1.5 Robotics

6.1.6 Big data service investments

6.1.7 Cloud computing investment opportunities

6.2 Investment risks

6.2.1 Macroeconomic risks

6.2.2 Policy risks

6.2.3 Market risks

6.2.4 Profit mode risks

6.3 Investment potential analysis

6.3.1 Related industries

6.3.2 Future development opportunities

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