

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.

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