Further the application of informatization, promote industrial development level

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Sep 25, 2010
Since the reform and opening up, especially the opening and development of Shanghai Pudong new district, Shanghai continues to promote highly, intensive and modernized industrialization. The bottlenecks of resources, energy, production factors and environmental bearing capacity that the industrial development is facing become increasingly prominent. The process of optimizing and upgrading the industrial structure and changing economic development mode need to be accelerated.

For years, Shanghai keeps promoting informatization to cover the overall modernization, implementing its leading development strategy, accelerating "integration of informatization and industrialization", quickening the pace of industrialization process by informatization application and promoting the transformation, upgrading of industrial development.
1. Focus on key industry informatization and promote industrial upgrading and optimization

2. Vigorously promote communication service level and provide a good base environment for enterprise informatization construction

3. Push forward the new generation of information technology innovation and industrialization and provide a powerful guarantee for promoting industrial level

4. Vigorously develop e-commerce and promote commercial mode innovation and economic efficiency

5. Promote energy conservation and emission reduction with information technology and promote the development of low carbon and green economy
1. Focus on key industry informatization and promote industrial upgrade and optimization

Promoting the integration of informatization and industrialization of industrial products, mainly focusing on R&D and design informatization, industrial production process automation, enterprise management and service informatization, products circulation and market informatization, implementing informatized upgrade projects in 10 key industries such as iron and steel industry, petrochemical industry, aviation industry, automobile industry, consumer products industry, manufacturing service industry.
Aviation industry

Establishing three systems of global collaborative design of large passenger aircrafts, design and manufacturing integration of key components and customer service system, establishing airliner digital manufacturing industry base.

Iron and steel industry

Developing the total-package service in industrial automation and intelligent technology, improving metallurgical technology level and process automation control ability, as well as the collaborative management level of cross-regional...
Developing and improving the production process of fine chemical industry, developing professional and advanced control technology with independent intellectual property rights.

Promoting intelligent collaborative design and flexible production, promoting technology research and development of engine control unit (ECU) of new energy vehicles.
Equipment industry

Establishing a group of equipment automatic control systems with high reliability, high stability, high adaptability to environment and with the characteristics of digitization, intelligence, integration, and networking etc.

ship industry

Relying on the shipbuilding base in changxing island, using information technology to support ship lean manufacturing and Marine engineering equipment manufacturing.
consumer products industry

Developing textile product design, integrated manufacturing and flexible manufacturing system, applying information technology in production process control and quality control, etc.

modern logistics industry

Promoting the application of electronic tags, sensor network technology in logistics enterprises, improving the modern logistics operation efficiency

manufacturing service industry

Vigorously developing manufacturing services supported by informatization such as research and design, brand management and
2. Vigorously promote communication service level and provide a good base environment for enterprise informatization construction

By upgrading the city’s information infrastructure network capacity, comprehensive utilization ability of facilities, and information gathering and radiation ability, providing basic network support and good information service environment for all types of enterprises to strengthen their information technology application
Accelerate construction and optimization of basic information communication network

- Starting to push urban fiber and broadband network construction, implementing reconstruction of optical access network with high bandwidth and universal coverage focusing on high-tech parks
- Constructing 3G network based on various standards, building more than 10,000 3G base stations and more than 5,000 WLAN wireless hotspots, basically forming the "wireless city" network
- All kinds of terminal popularity have reached the international advanced level, the Internet users popularity rising from 45.2% in the period of the 10th five-year plan to 68%
Improve service ability of information communication facilities

- International Internet export bandwidth has been 10 times after five years of growth, from 30G in the period of the 10th five-year plan to approximately 300G, which has become one of the most important exports of international communications, Metropolitan area networks (MAN) continue to expand. The export of MAN has taken the lead in China to reach TB level.

- Guiding the telecommunication operators to construct high-quality service networks, to open specific international Internet access for Internet service outsourcing, R&D center and other users, and to increase speed and quality

- Optimizing operation service mode of Internet data center (IDC), improving comprehensive service ability.
Improve the service efficiency of public service platform

- The total computing power of the high-performance computing system in Shanghai Supercomputing Center has been raised from 11 trillion times/sec at the end of the 10th five-year plan period to nearly 200 trillion times/sec, providing high-efficiency computing support for research and design and simulation in areas of automotive, aerospace and new materials etc.

- Strengthening information support services in industrial bases, improving service level of information sharing and public platform, launching pioneer park projects of implementing “integration of the two” in new national industrialized demonstration bases like Lin Gang Equipment etc.
3. Push forward the new generation of information technology innovation and industrialization and provide a powerful guarantee for promoting industrial level

Information and communication technology is the important motive force to optimize and upgrade industrial transformation and development. Integrated circuit and software industry act as "multiplier" and "booster" to improve R&D and production management level.

The information industry scale has increased from less than 1000 billion yuan in the year 2000 to nearly 8,000 billion yuan, vigorously promoting the high-tech industrialization in the areas of electronic information, software and information services and breeding emerging industries of strategic importance to accelerate the promotion of industrial development level.
Promote innovation and development of integrated circuit industry

- Shanghai as a national microelectronics industry base forms a relatively complete industrial chain covering design, manufacturing, packaging and testing.
- Integrated circuit design and manufacturing ability has achieved international mainstream level of 12 inches and 65 nanometres, which promotes the development and industrialization of the key equipments in integrated circuits;
- Vigorously promoting chip design and linkage development, promoting wide application of chips in various intelligent equipments
Develop applications of industrial software and embedded software

- Encouraging joint efforts from software enterprises and industrial enterprises to develop industrial software and system solutions with industrial and professional characteristics in the areas like aviation and steel, helping industrial enterprises to achieve digitalization of design and R&D, intelligentization of manufacturing equipment, production process automation and cybertization of operation management, optimizing industry upgrade.

- Encouraging joint efforts from software development enterprises and equipment manufacturing enterprises, accelerating the development of embedded software platform in areas such as automobile electronics, smart phones, and enhancing the core terminal equipment performance level.
Breed and Develop emerging industries of strategic importance such as the internet of things and cloud computing etc.

- The internet of things mainly breakthroughs in core areas of key sensor, control chip and short-range wireless communication technology, promoting key projects in areas of intelligent power grid and environmental monitoring etc, strengthening its supporting and guiding role in industrial development.
- Cloud computing mainly focuses on “Cloud Sea Plan”, which aims to promote infrastructure construction of cloud computing, support the R&D and industrialization of key technologies such as cloud management and storage of clouds and transform industrial enterprises’ existing information systems and basic facilities with cloud.
4. Vigorously develop e-commerce and promote commercial mode innovation and economic efficiency

E-commerce, as the most vigorous new format and new economic growth point in the development of economic transformation, promotes major changes in production mode and will have a very important role in optimizing and upgrading industrial structure and changing economic development mode.

Shanghai continues to promote the innovation and development of electronic commerce. The e-commerce transactions increased from 1,623 billion yuan in 2005 to 3316 billion yuan in 2009.
Vigorously promote application of electronic commerce in key enterprises

Pushing the B2B e-commerce applications led by key enterprises to expand and penetrate into the upstream and downstream of the industrial chain, forming the e-commerce application pattern on the base of industrial chain and with the focus of supply chain management.
Encouraging and guiding the third-party e-commerce platform to specialize and internationalize, providing platform support to traditional enterprises for the application of electronic commerce.

Vigorously promoting innovation and development of e-commerce enterprises throughout the city, as well as the pilot work of e-commerce application in small and medium-sized enterprise, creating good environment for them to use e-commerce to innovate business models and improve management level.
Shanghai domestically takes the lead in introducing local regulations on e-commerce, improving policy support for e-commerce development and gradually improving the supporting service systems such as payment.

In electronic payment area, promoting the development of a group of professional service enterprises such Unionpay and QuickPay, accelerating the information flow, capital flow and logistics.

In 2009, the third-party turnover of the main online payment enterprises amounted to 160 million yuan. The proportion of credit card spending has increased from less than 5% in 2002 to nearly 60% of the total retail sales of consumer products.
5. Promote energy conservation and emission reduction with information technology and promote the development of low carbon and green economy.

With application of information technology, Shanghai optimizes production processes, promotes energy management and technology innovation, improves management level, strengthens enterprises’ core competitive power and promotes the integration of information technology and industrial development, leading to low carbon and green economy development.
promote energy conservation and emission reduction with application of information technology

Focusing on the digitalization and intelligentization of production equipments in high energy-consumption industries such as metallurgy, chemical industry and building materials industry, reforming the traditional production process, promoting the comprehensive utilization of energy, monitoring and controlling pollution sources and realizing clean production, enhancing enterprise's sustainable development ability.
Having constructed Shanghai energy-efficiency monitoring platform to monitor the key energy-using units in terms of energy consumption and the fulfillment of energy saving objectives, providing data support to the development of energy efficiency label and energy-saving monitoring, promoting the energy-efficiency level of industries.
optimize production process with application of information technology

With application of IT in areas of R&D, manufacturing and process management, optimizing the production process, effectively reducing the operation and management costs, reducing resource and energy consumption.

With application of embedded software and SoC chips etc, moving high-end numerical control machine tools and nuclear power generating devices etc to the development direction of intelligentization, high-end and low consumption.
The next step is to continue to intensify the development, application, and industrialization of new technology, to further the integration of informatization and industrialization, to expand the application of information technology in all phases of industrial chain, to actively explore the practice of new industrialization and to promote industry transformation, upgrading and development, making contributions to accelerating Shanghai’s realization of “Four Firsts” and construction of "four centers"
Thank you