Introduction of Informatization Progress in Shanghai

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I. Informatization Progress of Shanghai in 2004

- Informatization is of strategic significance in China’s overall modernization progress. It is also an important means to implement the strategy of revitalizing Shanghai through science and education.

- According to the given strategy, the current informatization efforts are in full swing focusing on the application of information technology. The year 2004 is a key stage in that process.

- The year 2004 has witnessed steady progress in IT industry, IT infrastructure construction, IT application, improvement of the IT-related environment. All preset goals have been achieved.
I. Informatization Progress of Shanghai in 2004

Information Industry
Overview of Information Industry

- Sales and operating income: 438.43 billion RMB, growth rate of 47.7%;
- Added value: 84.161 billion RMB, growth rate of 35.3%, accounting for 11.3% of city’s total GDP.

![Bar chart showing added value from 1997 to 2004]

- Proportion to City’s GDP:
  - 11.3%
Overview of Information Industry

- Composition of Added Value of Information Industry:

- Added value of IT product manufacturing: 49.4 billion RMB, growth rate of 41.1%;
- Added value of IT product sales: 2.202 billion RMB, growth rate of 11%;
- Added value of IT service: 32.559 billion RMB, growth rate of 29.1%. 
Information Service Industry

- The operating income of information service industry (including software industry) reached 65.56 billion RMB, with 30.8% year-on-year increase.

- The stocks of five Shanghai-based dot coms have been listed in NASDAQ (Shanda, 51job, Ctrip, Ninth City, Linktone).
The operating income of software industry reached 30.28 billion RMB, with 50.5% year-on-year increase;

There are 35 enterprises with the operating income over 100 million RMB. 32 enterprises obtained CMM3-and-above certificates. Among the 32 enterprises, five obtained CMM5 certificates;

Four universities have set up software schools and the first group of students have graduated. 104 software enterprises run by those with overseas education background have received special funds;

Shanghai now boasts 1 national-level software export base and 7 city-level software industry bases (including 1 national-level software industry base), all of which gather nearly 65% of the software enterprises in Shanghai;

The public service platforms such as national-level software testing center, software component library have been established. The alliance to promote LINUX industry has been organized;

Shanghai has won the bid to host 2006 International Conference on Software Engineering.
IC Industry

- Sales revenue of IC industry reached 23 billion RMB, with 110% of year-on-year increase.
- Seven 8-inch wafer fabs have been put into production with the monthly output of 190,000 units. There are also four 4-6 inch fabs. Three of the world’s top four packaging and testing enterprises have set up their business here.
- The special policy to develop IC design industry has been implemented and the emphasis has been laid on the combined development of design and manufacturing. More than 100 design enterprises have been attracted and incubated. The sales revenue of chip design grew 30% over the last year.
- The public platform for the IC R&D has been promoted in collaboration with US Applied Materials, Co. Ltd. The national database for IC patents has been set up in SSIPLEX.
- SMIC was successfully listed in NYSE and Hong Kong Stock Exchange. Its current market value is about US$ 4 billion.
I. Informatization Progress of Shanghai in 2004

Information Infrastructure Construction
Information Infrastructure Construction

- The information infrastructure planning has been carried out concerning new towns in the suburbs, city-level industry parks and development zones. The planned area is around 623 square kilometers, covering population of 3.52 million. The estimated investment is 6 billion RMB.

- The integrated telecommunication pipelines reached 1260 kilometers. The integrated construction has expanded from information pipelines to wireless stations, indoors wireless coverage, etc.

- “Dawning 4000A” Supercomputer, with the computing capability of 10 trillion times/second, has been put into use in Shanghai Super Computer Center. “Dawning 4000A” was ranked No. 10 supercomputer in the world in Jun. 2004.
Information Infrastructure Construction

- Bandwidth of international internet outlet: 18.53 GB, growing 141% over the same period of last year.
Information Infrastructure Construction

- Fixed-line telephone penetration rate: 64.3% (50.7% for permanent residents);
- Mobile phone penetration rate: 96.7% (76.3% for permanent residents).
Information Infrastructure Construction

- CATV subscribers: 3.78 million (1.7289 million subscribers with two-way transmission capacity);
- Family broadband users: 1.5882 million households,
  Growth rate: 15%, Penetration rate: 32.75%;
- Internet subscribers: 6.33 million  Penetration rate: 47%;
- Household PC penetration rate: 70 units per 100 households.
Government-guided Informatization
E-Government

• The e-government 电子政务 has been basically established. The public affairs network mainly transmits confidential information and connects 300 government agencies. The external network, mainly operating governmental general management and services, has been currently connected to 19 districts & counties and 72 municipal government agencies.

• The functions of 电子政务 have been further improved. 367 services can be offered directly online. 2379 forms in 707 service items can be downloaded via the portal. The daily portal visits reached 340,000 times, growing 100% over the same period of last year. In the contest of worldwide government websites in 2003, Shanghai China portal was ranked No. 5 among the 84 largest cities’ government websites in various countries with city internet users over 100,000.
Open Government Information

- *Shanghai Municipal Provisions on Open Government Information* was issued on 20th Jan., 2004. Guided by the principle of disclosure and exception of nondisclosure, the government information is classified into three categories: information disclosed on the own initiative, information disclosed upon application, and information exempt from disclosure. The Provisions went into effect on May 1st, 2004 and the catalogues of open government information were made public on Nov. 1st. The 2004 Report on open government information will be released in March this year.

- The open government information joint conference has been established, composed of ten government agencies including Municipal General Office, Legislative Affairs Office, and Municipal Informatization Commission. Shanghai Municipal Informatization Commission is responsible for the coordination of the joint conference and for the promotion of government information disclosure.
Open Government Information

- 15 government agencies have drawn up their information catalogues including 11,700 pieces of information concerning housing relocation, urban planning, major civil engineering projects.

- The number of government information available on agencies’ initiatives amounts to 106,700. 8799 applications were received and responding rate was 99%. The face-to-face or telephone consultations reached 1.76 million person time and visits to the relevant website totaled 144 million.

- The concept of open government information has been popularized among government agencies, which pay more attention to the standard of government behavior and services.

- The transparency of government operations has been improved, resulting in better market regulations and citizen-oriented services.
Municipal Government’s Citizen-Benefiting Projects

has been launched on the real name basis, through which various information including government information, social security information, credit card, public utility bills, e-police fine notice could be regularly provided to the citizen. So far, the registered users reached 530,000 and 22.787 million pieces of information have been sent.

platform has been set up and launched. 19 enterprises have been connected to the platform. The annual transaction number amounted to 1.68 million with the trade volume of 220 million RMB.
National Pilot Projects

- Exchanging and sharing 6 items of basic information and 12 items of applied information from government agencies such as public security, labor, taxation, etc.

- Exchanging and sharing 42 items of basic enterprise information from government agencies such as industry & commerce, taxation, quality inspection, etc. A citywide unified database for basic enterprise information has been initially established.

- Setting up the collaborative port supervision platform for import & export business based on ‘Grand Customs Clearance’ platform and the above-mentioned pilot project in sharing basic enterprise information
Informatization in Public Service

- Setting up city-level information exchange platform and basic information database covering the information of 20 million people.

- Issuing 9.0278 million social security cards, among which 840,000 Red Cards with the function of preferential treatment were issued to elder citizens aged over 70.

- has been launched in 73 neighborhoods with the coverage of 71.6%. Community information centers have been set up in 100 neighborhoods.

- Other application systems: etc.
Informatization in City Management

- The city informatization system has been put into trial operation. The calls of 110 and 119 have the access to the system and 17 departments have been also connected with the system.

- The IOT system has been established, making possible the online trading, bidding, auctions, etc.
Informatization in Education and Health Sectors

- Internet access and network speed have been improved. Online reading and designing activities have been conducted during school holidays. Use rate of the school main network has reached 90%.

- Such projects as online library, long-distance education have been carried out via / "互联网". IPv6 has also been put into trial.

- Pilot application of / "互联网" have been strengthened and the / "互联网" has been carried out in some community healthcare centers.
I. Informatization Progress of Shanghai in 2004

Industry-guided Informatization
Manufacturing Industry

- A series of campaigns have been initiated including the combined development of chip design and equipment manufacturing, industry-specific software promotion, matching between traditional and IT enterprises, ERP demonstration projects, selection of model informatization enterprises, etc.

- Such technologies as CAD, virtual manufacturing, product data management system have been applied in most manufacturing enterprises.
Commercial Industry

- The trading volume of has reached 74.319 billion RMB, with a year-on-year increase of 47.34%, accounting for 12.02% of the city’s total commodity sales.

- have been set up including inter-bank payment platform, public logistics information service platform, online entrepreneurship service platform. The online entrepreneurship service platform has trained over 4000 people and provided about 5000 jobs.

- has also been set up, providing agent services such as complaint, arbitration, trading insurance, etc.

- Some have been established in the fields of steel, auto, chemistry, pharmaceuticals, tourism, real estate, finance, etc.
Finance Industry

- 7.18 million **bank cards** have been issued last year (the total volume reaching 49.3298 million), of which 663,000 were credit cards, accounting for over 60% of the total cards issued. The bank card transaction volume reached 170.6 billion RMB, of which 115.1 billion coming from consumption via card, a year-on-year increase of 77.35%, accounting for 29% of the consumption sales.

- **The uses of bank cards** have been extended to house transaction tax, private car plate fees, airline tickets, tourist fees. 75% of the 20 five-star hotels have completed bank card–related transformation programs.

- **International cooperation** in bank card has been further advanced with the cooperation like that between Pudong Development Bank and Citi Bank, that between Bank of Shanghai and HSBC, that between Communication Bank and HSBC.

- Nearly 6 billion RMB has been invested in **Bank Card Industry Park**, which has attracted five organizations including national data processing center of China.
Import & Export Sector

The ‘123’ (123) platform has five core functions: transmission and processing of e-bills, Customs logistics information service, networked supervision for processing trade, networked logistics supervision for export processing zone, and online e-payment.

- 41 regular Customs clearance bills have been processed electronically, with the e-rate over 70%. The amount of e-document transmission reached 24.987 million, with an increase of 32.6%.

- The Customs logistics information service platform provides the online information concerning international trade, shipping, government supervision, with over 40,000 registered users.

- Nearly 100 processing enterprises with annual export volume exceeding US$10 million have realized the networked supervision.

- The platform for ‘5+1’ logistics supervision for export processing zones and Waigaoqiao Free Trade Zone has been established.

- The online payment platform is able to process over 20 different electronic billings with the annual tax paying of 24 billion RMB.
The pilot application project in 1. has been completed in Shanghai’s five districts. Shanghai has gained the country’s production license for navigated e-maps.

Completed were the layout of .- information collection facilities in urban area roads. The taxi information service platform has been put into operation with nearly 4000 hired taxis connected into the platform.

The - can be widely used in 14 fields including bus, taxi, subway, ferryboat. A total of 14.6929 million cards have been issued and the card can now be used in Wuxi, Suzhou, and Hangzhou.
Agricultural Industry

- Establish 100 city-level "   Es t a b l i s h " and 150 district-level service stations, with an information service team consisting of over 1200 people.
- Establish "   Es t a b l i s h " to establish “information archives” for agriculture products.
- Improve functions of "   Es t a b l i s h " such as www.shac.gov.cn, www.hdagri.gov.cn, and realize on-line information release and on-line product transaction.
Trade Associations

- Thirteen trade associations in information industry have been set up, each fulfilling functions such as industry representative, industry self-discipline, industry coordination and industry service.

  - IC Industry Ass.
  - Software Industry Ass.
  - Info System Quality & Technology Ass.
  - Telecommunication Manufacturing Ass.
  - IT-related Legal Ass.
  - Info Service Ass.
  - Information Development Research Ass.
  - Association for Industry of IT-Supported Electronic Household Appliances
  - IT Training Ass.
  - Information Security Ass.
  - Photoelectron Industry Ass.
  - E-Commerce Ass.
  - Radio Ass.
I. Informatization Progress of Shanghai in 2004

Construction of Social Credit System
Credit System Construction

- Implement *Trial Administration Measures for Collection of Individual Credit Information in Shanghai*
- Promulgate *Trial Administration Measures for Collection of Enterprise Credit Information in Shanghai*
- Draw up Trial Criteria for Enterprise & Individual’s Credit Information Data
- Government agencies actively adopt credit products in government procurement, loan guarantee of small and medium enterprises, high tech enterprise certification and management, and review of special funds for science and technology development.
- Set up Shanghai Credit Service Administration Office
Credit Service Industry

- Members of Individual Credit Information Trans-Collection System have grown to 45, covering the information of 5.33 million people, 1.73 million more than last year’s figure. The amount of individual credit reports released totaled 2.78 million, 1.35 million up from last year’s. The number of daily inquiry reached around 6,000.

- Number of enterprises that have entered the Enterprise Credit Information Trans-Collection System has reached 830,000.

- There are around 30 credit service organizations. The annual turnover of credit service industry has amounted to 0.15 billion RMB.

- 20% of the city’s medium and small enterprises, 85% of major state-owned holding corporations and their affiliated enterprises have set up their own credit archives system.
II. Key Points of Informatization Progress of Shanghai in 2005

- Information Infrastructure
- Information Industry
- IT Application
- Informatization Development Environment
- 11th Five-Year Plan
Information Infrastructure

- Continue the information infrastructure planning concerning new towns in the suburbs, city-level industry parks and development zones. Initiate “Digital World Expo” research;
- Transfer 800MHz telecommunication from analogue network to shared digital network platform;
- Develop and introduce software platform supporting supercomputers with computing capability of 10 trillion times;
- Complete expansion of Shanghai Internet Exchange Center and node construction to form regional Internet exchange center.
Information Industry

- Cultivate self innovation capabilities of local enterprises, including three types of foreign-funded enterprises
- Promote combined development of IC design and equipment manufacturing in automotive electronics and mobile communication industries
- Implement the plan to develop traditional industry, and support software enterprises in several key fields
- Continue to promote the construction of information service industry bases like multimedia industry parks
- Promote overall digital transition of CATV
- Foster new industry growth points like photoelectron products, new displaying equipment and 3G devices
- Develop telecommunication’s value-added business, and widen channels of information service
IT Application

- Expand the depth of open government information, improve e-government platform and government portal;
- Implement this year’s municipal citizen-benefiting project “Adolescent’s Growth and Development Information Service Platform”, and improve functions like “Citizen’s Mailbox”, “Easy Payment Project”;
- Build up social service system of e-commerce, promote E-Port construction and informatization in finance and agriculture fields;
- Better construct and apply city’s geographic information system, promote city’s emergency handling information system, construct 800M digital shared network for government affairs, promote ITS, speed up construction of navigated information system.
Informatization Development
Environment

• Further improve the city’s information security system. Stress the construction of long-term monitoring system, emergency prevention system, graded protection system, network trusting system;

• Improve informatization regulation standard, promote IT training and cooperation, promulgate a series of regulations and policy setting documents, carry out preliminary preparation for 2006 International Conference on Software Engineering;

• Promote the integrated development of informatization in Yangtze River Delta.
11th Five-Year Plan

- Basically complete 11th Five-Year Plan in national economy and social informatization fields and some key project planning;
- Extensively carry out plan’s research work;
- Strengthen links between plans made by seniors and juniors, specific and industry plans, regional and overall plans, coordinate various plans in terms of objectives, tasks and measures.
III. The Fifth Annual Forum on City Informatization in the Asia-Pacific Region

- Topic of the Forum: City Informatization—information technology promotes development
- Sponsors:
  - UN Department of Economic and Social Affairs
  - UN Development Program
  - UN ICT Task Force
  - State Council Informatization Office
  - Ministry of Science and Technology
  - Ministry of Information Industry
  - Ministry of Commerce
  - Chinese Academy of Sciences
  - Shanghai Municipal People’s Government
Main Topics of the Forum:
- Informatization policy and development strategy
- Urban intelligence development and informatization index evaluation
- Knowledge management in UN public administration
- Research on information society in cities and local governments across Asia-Pacific region
- Internet and information security
- E-Commerce and modern logistics
- Construction of social credit system
- Next generation network and Internet
- Forum of Yangtze River Delta cities’ Informatization
- Latest development trends in information technology
- Information technology and the construction of disaster responding system
- ......
III The Fifth Annual Forum on City Informatization in the Asia-Pacific Region

- Time: May 30-31, 2005
- Venue: Shanghai International Convention Center
- Nearly 800 participants, including:
  - Representatives from UN and other related international organizations
  - Renowned world leaders, senior ministerial-level officials
  - Mayors from Asia-Pacific region
  - Famous enterprise chief executives, experts and professionals in information technology and informatization
  - Representatives from NGOs

Shanghai International Informatization Expo will be held at the same time.
  - Time: May 30 -- June 3
  - Venue: Shanghai Exhibition Center
Thank You

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