

Major advances on construction IT in China: 2009

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Agenda

1. Major statistics for 2009
2. The new e-government system of MHURD
3. Digital management of cities
4. Informatization requirements for major construction firms

1. Major statistics for 2009

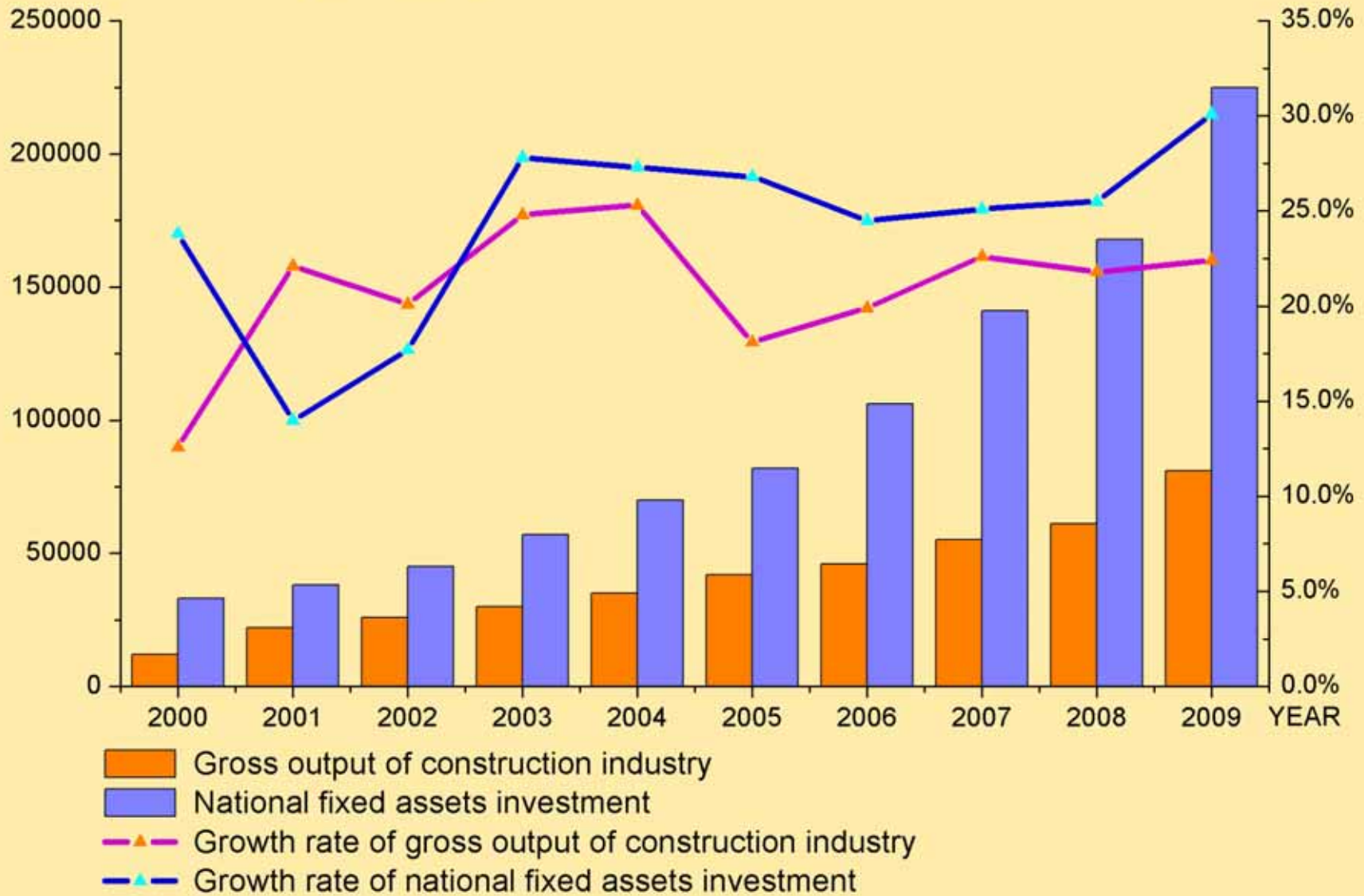
- GDP and added value of construction industry
- National fixed assets investment and gross output of construction industry
- Number of construction firms
- Number of employed people in construction industry

(Unit: Hundred million RMB, IUSD=6.9RMB)



GDP and added value of construction industry during 2000 to 2009

(Unit: hundred million RMB, IUSD=6.9RMB)

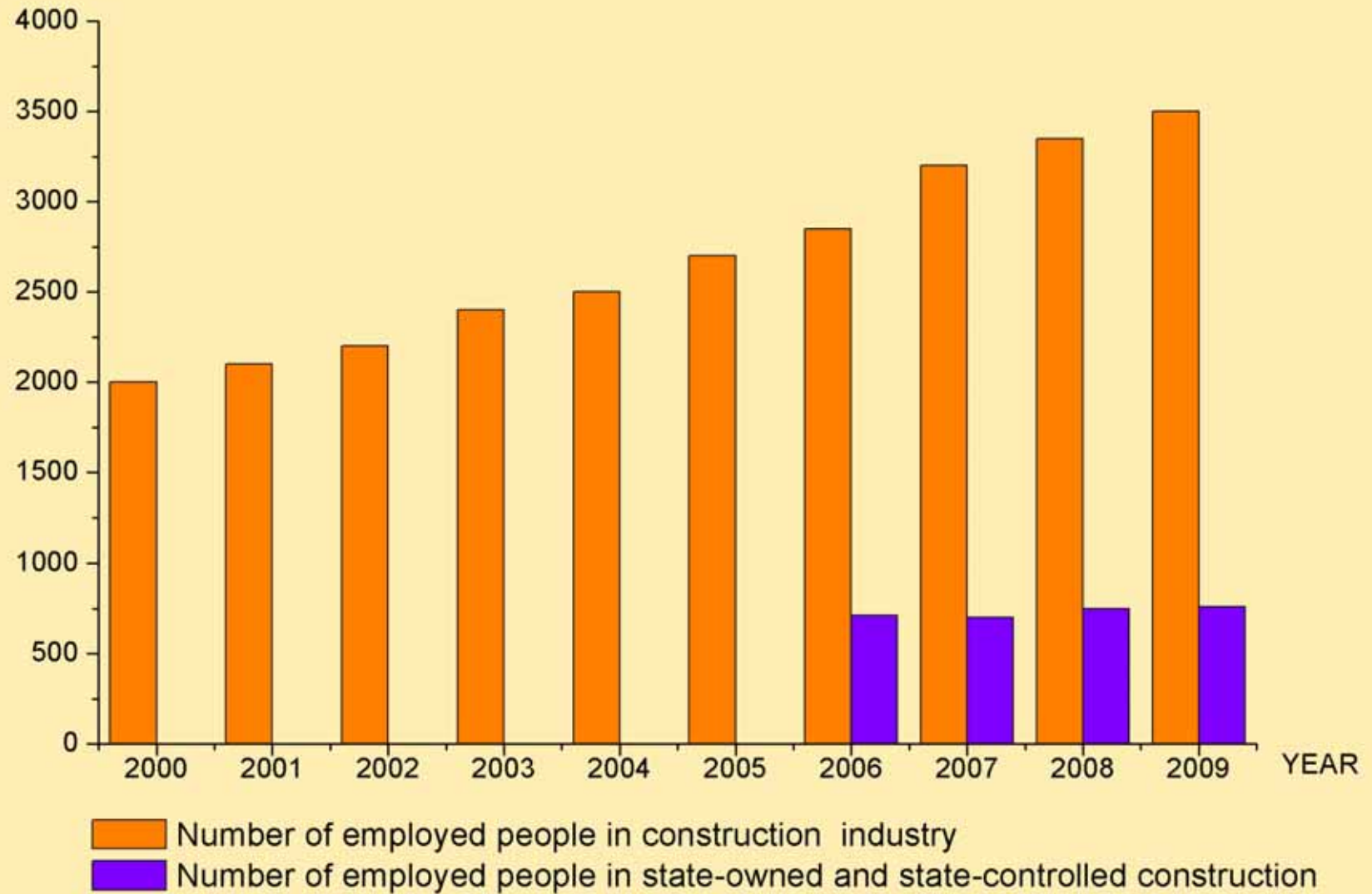


National fixed assets investment and gross output of construction industry during 2000 to 2009



Number of construction firms in China and the growth rate during 2000 to 2009

(Unit: Ten thousand people)



Number of employed people in construction industry during 2000 to 2009



2. The new e-government system of MHURD

Major problems that the ministry faces:

- Difficult for the low and middle-waged to **get residence**
- Difficult to for the government **to control the quality and safety** of construction projects
- Difficult to for the government to control **the planning of the urban and rural regions**
- The system **for utilizing the housing fund of the public** is not sufficient to solve the housing problems
- **Low credit of the participants** in the construction industry and the real estate market

Countermeasures

- Improve the **mechanism**, including setting the interest of loans or promulgate tentative administrative measures
- Improve necessary **regulations and laws**
- Enforce other **monitoring** the focused problems as well as the routine issues
 - > Information technology as an effective means
 - > Establish the corresponding information systems

Example: To solve the problem of being difficult for the low and middle-waged to **get residence**

- **Mechanism**

Rising the interest **of** loans by 10 percent

Providing no loans for buying the third residence

- **Regulations and laws**

To rectify that the housing fund of the public can be used for constructing residences as well as buying residences

- **Monitoring**

Information system is established to monitoring the tendency and the implementation of regulations and laws

Objectives of the project

- To establish **a systematic framework** of the solution
- To establish **the required mechanisms**
- To establish **the required regulations and laws**
- To establish **the required information system** that is used for monitoring the focused problems as well as the routine issues in the construction field of the whole country

Schedule of project and scale

Five years into two phases

- 2011-2013

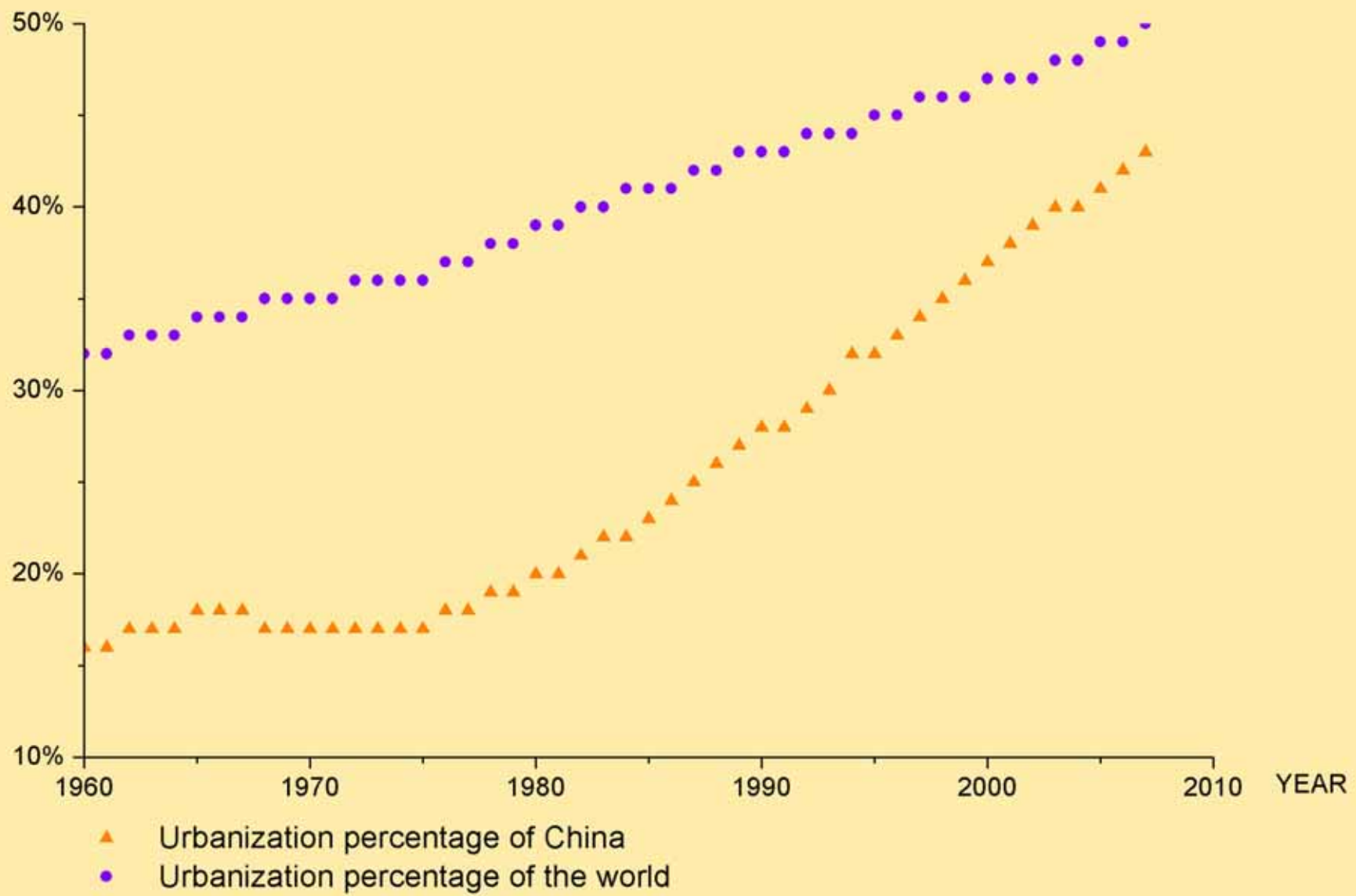
Investment: 480,000,000 RMB (Aprx. 70,000,000 USD)

- 2013-2015

Investment: 360,000,000 RMB (Aprx. 50,000,000 USD)

3. Digital management of cities

- To use latest information technologies such as GIS and RS in the management of cities
- Trends of Urbanization in China



Comparison on urbanization percentage of China with the world

Concepts of digital management of cities

The screenshot displays a web browser window titled "城市网格化管理信息系统" (City Grid Management Information System). The browser address bar shows "查看媒体信息 - Microsoft Internet Explorer". The main content area is divided into two panels. The left panel shows a street view with a red circle highlighting a specific area. The right panel shows a similar street view with a person bending over to pick up trash. Below these panels is a grid map with various colored cells and icons representing different grid units. The map includes labels for areas like "淮中", "雁荡", "孝和", "复四", and "光明".

城市网格化管理信息系统

查看媒体信息 - Microsoft Internet Explorer

查看媒体信息

图片信息: 第1幅图
接收时间: 2005年9月
图片文件名: 05_05092

Monit

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130 cities with systems, under construction
 Many cities planned to construct



4. Informatization requirements for major construction firms

- Ranking system for construction firms

Used as qualification for bidding

Rank 1. most proficient

264 firms in total

- In 2007, the government promulgated the informatization requirements against Rank 1 construction firms, that must be satisfied.

- According to the requirement, the construction firms must establish a comprehensive management information system with enough functions, and use it to a certain extent.
- The Rank 1 construction firms have invested to establish the system, so do some lower rank construction firms.

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Thank you for your attention

