Introduction to Government Data Sources

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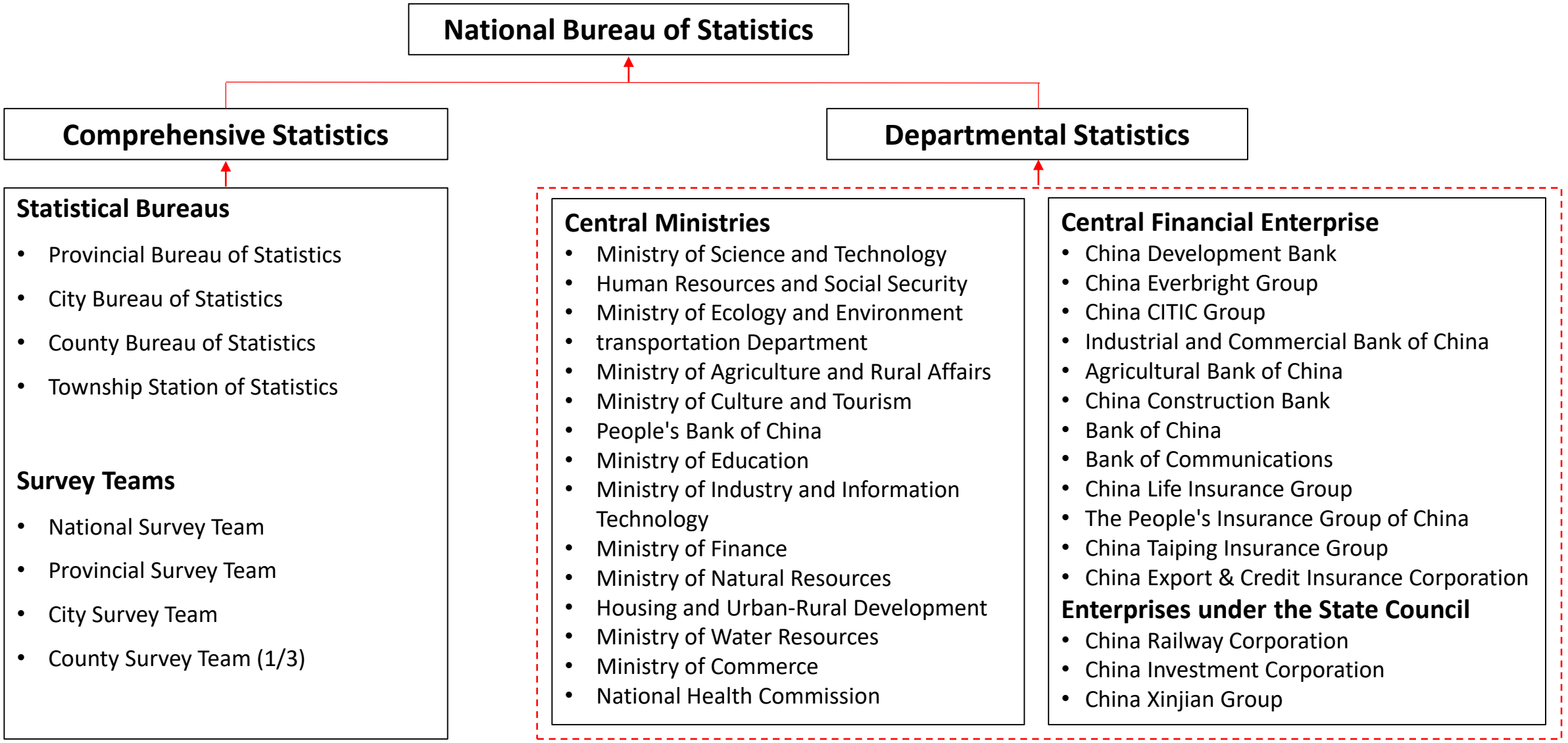
China Data Institute

Topics

- **Data sources**
  - Government Statistics
  - Population Census
  - Economic Census
- **Comparison** of difference between the US and China
- **Discussions** of Pros and cons

(I) Government Statistics

The Statistical System of China



Source: http://www.stats.gov.cn/ztjc/ztsj/jzgjlhtjsc/jz2015/201507/P020150709604206961046.pdf

Data Collections

Data Collections:

- ☐ Periodical surveys
- ☐ Regular surveys
- ☐ Special surveys
- ☐ Typical surveys
- ☐ Administrative records

Major Census

- Population Census
- Economic Census
- Agricultural Census

Regular surveys (Economy, society, population, environment and resources)

- National accounting
- Agriculture
- Industry
- Energy
- investment
- Construction
- Foreign trade
- Services
- Urban and rural households
- Prices
- Social Technology
- wage

Departmental Statistics

- Transportation
- Tourism
- Public Finance
- Bank and Finance
- Import and Export
- Foreign Investment
- Culture
- Education
- Health
- Technology
- Household registration
- Social development

Source: http://www.stats.gov.cn/ztjc/ztsj/jzgjlhtjsc/jz2015/201507/P020150709604206961046.pdf

Data Category and Definition

Index Definition: https://www.china-data-online.com/info/jieshi.asp

- **National Accounts**
- Population and Employment
- Investment in Fixed Assets
- Price Indices
- People's livelihood and Worker's Wage
- Government Finance and Banking
- City Survey
- Agriculture
- Industry
- Construction
- Transport, Post and Telecommunication Services
- Domestic Trade, Foreign Trade and Economic Cooperation
- Foreign Trade and Economic Cooperation
- Education and Culture
- Public Health
- Resources

GROSS DOMESTIC PRODUCT OF CHINA

- Gross domestic product of china/gross domestic product
- Gross domestic product of china/primary industry
- Gross domestic product of china/secondary industry
- Gross domestic product of china/industry
- Gross domestic product of china/construction
- Gross domestic product of china/tertiary industry
- Gross domestic product of china/transportation post and telecommunications
- Gross domestic product of china/wholesale retail &catering trade
- Gross domestic product of china/per- capita GDP

INDICES OF GROSS DOMESTIC PRODUCT OF CHINA（1978=100）

- indices of gross domestic product of china（1978=100）/gross national product
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- indices of gross domestic product of china（1978=100）/transportation post and telecommunications
- indices of gross domestic product of china（1978=100）/wholesale retail & catering trade
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- Indices of gross domestic product of china/transportation post and telecommunications
- Indices of gross domestic product of china/wholesale retail &catering trade
- Indices of gross domestic product of china/per- capita GDP

GROSS DOMESTIC PRODUCT BY EXPENDITURE APPROACH OF CHINA

- Gross domestic product by expenditure approach of china/gross domestic product by expenditure approach
- Gross domestic product by expenditure approach of china/final consumption expenditure
- Gross domestic product by expenditure approach of china/household
- Gross domestic product by expenditure approach of china/government
- Gross domestic product by expenditure approach of china/gross capital formation
- Gross domestic product by expenditure approach of china/fixed capital
- Gross domestic product by expenditure approach of china/changes in inventories
- Gross domestic product by expenditure approach of china/net export of goods and services

Monthly Statistics (2006-)

National:

- National Accounts
- Industry
- Transportation and Communication
- Investment
- Domestic trade
- International trade
- Price index
- International tourism
- Banking
- Foreign investment
- Logistics and purchasing

Province:

- Industry
- Investment
- International trade
- Price index
- Banking
- Employment and wage
- Real estate

City:

- Price index
- People’s Livelihood

National and Provincial Statistics (1949-)

- National Accounts
- Population and Employment
- Investment in Fixed Assets
- Price Indices
- People's livelihood and Wage
- Finance and Banking
- City Survey
- Agriculture
- Industry
- Construction
- Transport, Post and Telecommunication
- Domestic Trade
- Foreign Trade
- Education and Culture
- Public Health
- Resources

Yearly Prefecture City and County Statistics

Prefecture City Statistics

- Population
- Labor Force And Employment
- Employment Structure
- Employment By Sector
- Land Resource
- General Economy
- Agricultural Production
- Quantity Of Farm Crops Per Capita
- Industrial Enterprises
- Financial Indicators
- Investment In Fixed Assets
- Commercial Economy
- Foreign Direct Investment
- Finance And Banking
- Insurance
- Wages
- Number Of Schools
- Number Of Full-Time Teachers
- Student Enrollment
- Culture
- Public Health
- Transportation
- Postal &Telecommunications
- Water， Electricity And Gas
- Roads And Traffic
- Environment Condition

County Statistics

- Population
- Labor Force And Employment
- Land Resource
- General Economy
- Agricultural Production
- Investment In Fixed Assets
- Commercial
- Foreign Direct Investment
- Number Of Schools
- Number Of Full-Time Teachers
- Student Enrollment
- Economy

Monthly & Yearly Industrial Statistics

General Analysis on Industry

- Basic condition
- Assets and Debts
- Losses and Profits
- Economic Benefit Indicators

Output of Main Products

- Confection
- Quick frozen Staple Foods
- Convenient Noodles
- Dairy Product
- Liquid Milk
- milk powder
- Canned Food
- Soy
- Freezing Drinks
- Food Additives

Food Production / Basic condition

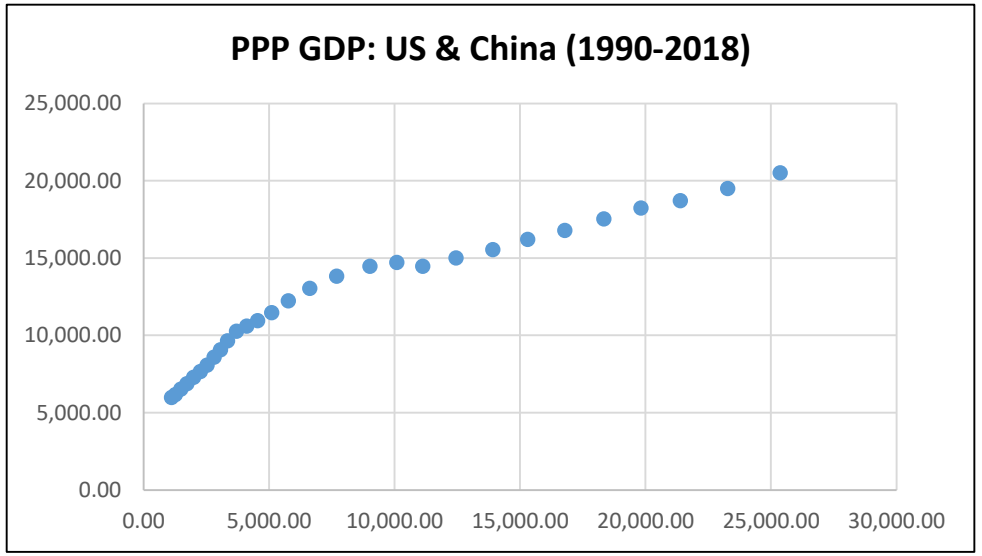
Time	Number of Enterprises (unit)	Number of Loss-making Enterprises (unit)	Gross Industrial Output Value (at current price)		Average Number of Employees	
			accumulated to this month (1,000yuan)	Year-on-year Rise(%)	accumulated to this month(person)	Year-on-year Rise(%)
1999,1-3	3,546	1,359	21,413,615	8.03	737,235	-1.12
1999,1-4	3,647	1,406	29,600,041	6.68	730,390	-4.31
1999,1-5	3,725	1,455	37,951,876	7.68	748,240	-2.42
1999,1-6	3,721	1,482	47,086,134	9.19	755,784	-1.89
1999,1-7	3,761	1,502	54,823,608	9.7	765,316	-3.1
1999,1-8	3,766	1,511	62,523,819	9.58	776,360	-0.97
1999,1-9	3,772	1,512	71,286,349	9.32	767,279	-2.29
1999,1-10	3,769	1,488	80,613,809	8.89	765,185	-2.52
1999,1-11	3,791	1,447	88,927,748	8.71	770,287	-3
1999,1-12	3,816	1,324	98,829,639	7.91	802,209	-2.74
2000,1-2	3,462	1,068	3,233,799	22.94	702,856	1.6
2000,1-3	3,498	1,185	13,490,758	14.85	718,071	1.36
2000,1-4	3,533	1,207	1,203,322	285.31	722,806	1.27
2000,1-5	3,572	1,252	0		718,875	0.35
2000,1-6	3,594	1,256	0		719,227	-2.64
2000,1-7	3,595	1,291	0		729,772	-0.17
2000,1-8	3,612	1,288	0		723,039	-0.83
2000,1-9	3,619	1,274	77,412,640	812.78	728,079	0
2000,1-10	3,628	1,267	86,725,573	11.42	727,981	-0.35
2000,1-11	3,611	1,206	96,322,687	11.71	723,980	-1.12
2000,1-12	3,668	1,082	108,493,523	12.41	728,193	-1.15
2001,1-2	3,409	997	16,741,107	6.52	677,343	0.94
2001,1-3	3,491	1,098	26,376,379	9.69	683,625	0.97
2001,1-4	3,509	1,104	35,714,405	9.52	693,952	1.52
2001,1-5	3,534	1,102	44,994,358	9.19	696,647	-0.79
2001,1-6	3,571	1,127	55,486,726	10.17	698,744	-1.3
2001,1-7	3,599	1,146	62,675,078	8.82	689,468	0.74
2001,1-8	3,619	1,157	71,767,000	8.49	692,766	0.77
2001,1-9	3,634	1,162	82,300,029	8.92	699,814	1.29
2001,1-10	3,643	1,164	92,673,530	8.92	704,602	1.03

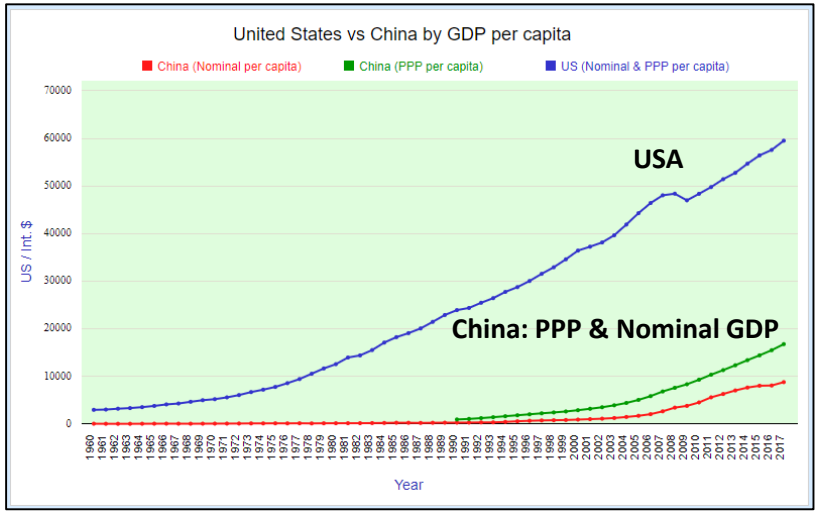
Difference between the US and China Statistics

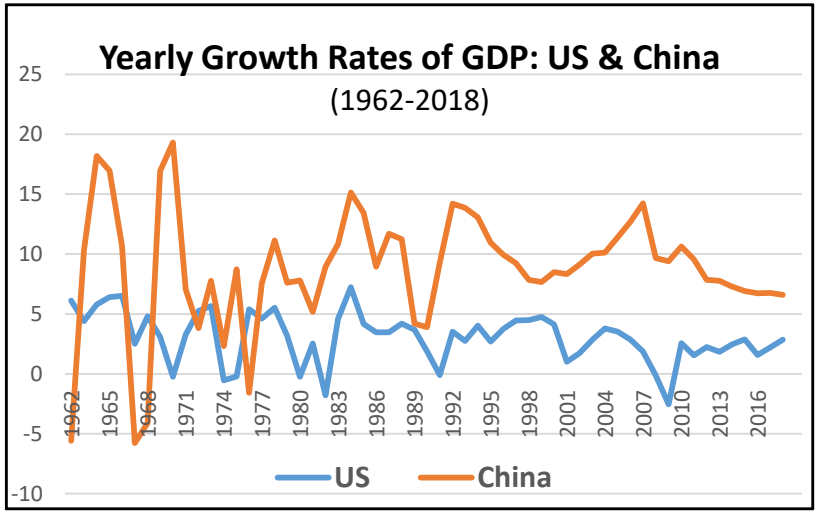
Statistical Systems:

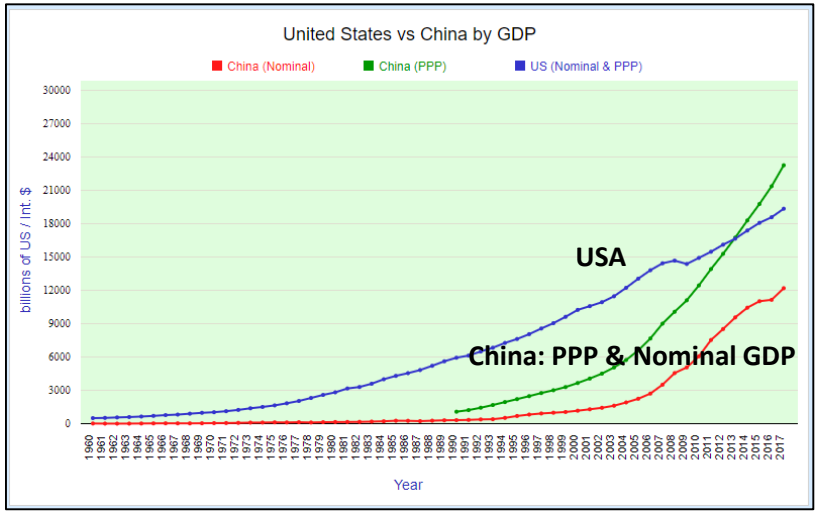
- **Production Approach**: Material Product Balances (MPS)
- **Expenditure Approach**: System of National Accounts (SNA)

- ☐ Data collection
- ☐ Data definition
- ☐ Data publication
- ☐ Data implication









http://statisticstimes.com/economy/united-states-vs-china-economy.php

Pros and Cons

Pros:

- ✓ Nationwide statistical agencies
- ✓ Integrated statistical system
- ✓ Comprehensive data coverage
- ✓ Authoritative publications

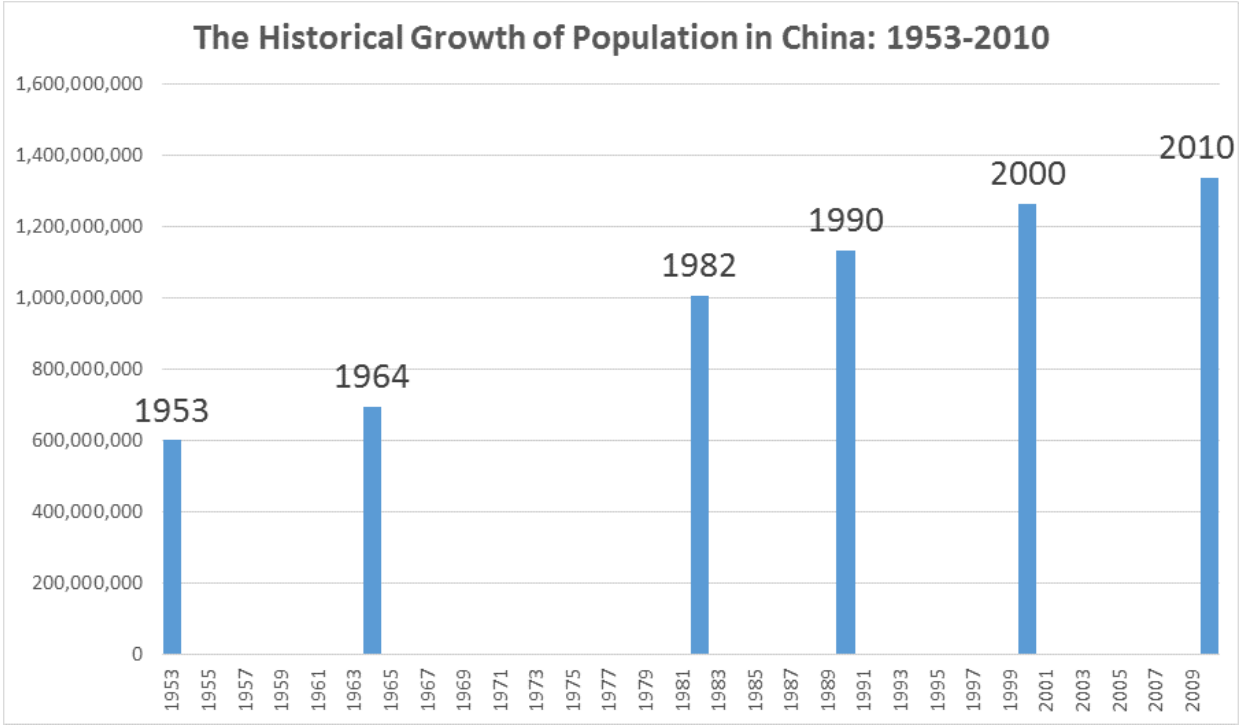
Cons:

- ✓ Slow adaption to market changes (economic reforms, industrial transition, urban-rural development)
- ✓ Possible interference with administrative actions , especially in the short term
- ✓ Possible changes in data definitions without well-defined documents
- ✓ Lagged release of information

(II) Population Census Data

The Population Census of China

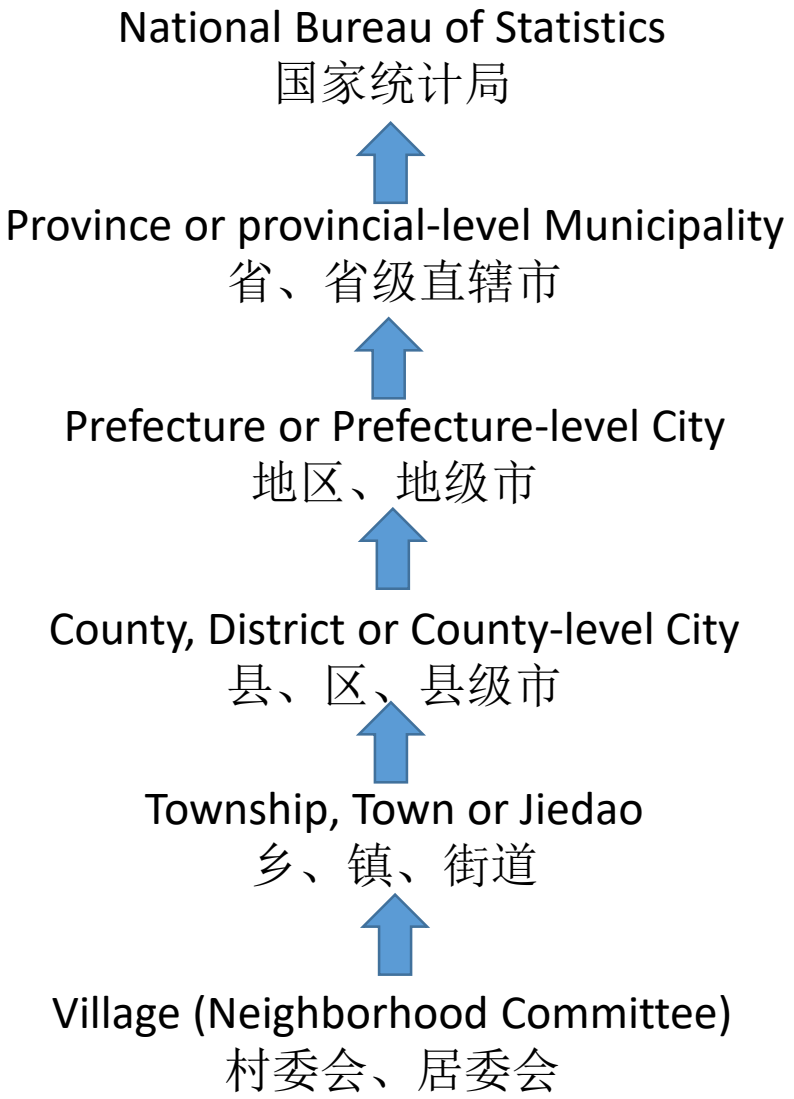
- The earliest population Census in China: 2 AD
  (西汉汉平帝元始二年,公元2年）
- Recent censuses:
  - The 1st Census: July 1, 1953
  - The 2nd Census: July 1, 1964
  - The 3rd Census: July 1, 1982
  - The 4th Census: July 1, 1990
  - The 5th Census: Nov 1, 2000
  - The 6th Census: Nov 1, 2010



Population Census Data Collection

- **Census household survey forms** (1990, 2000 & 2010): Short Form (100%), Long Form (about 10%)
- **Date and Time**: 0:00AM of November 1, 2000/2010
- **Data coverage:** The population in the publication do not include People's Army.
- **Data quality**: The post-census sample survey indicates an undercount of 0.12% in 2010 Census.
- **Resident definition**: All permanent residents who have
  (1) Chinese citizenships and
  (2) Permanent living places in Mainland China.

The Flow Charts of Data Reporting



Census Data Publications by NBS

- National Census Bulletin
- Population Census Data Assemblies (nation, province, city and county)
  - China Population Data Assemblies
  - Province Population Data Assemblies
  - China Population Data by Counties
  - China Population Data by Xiang, Zhen and Jiedao
- Population 1% Sampling Report

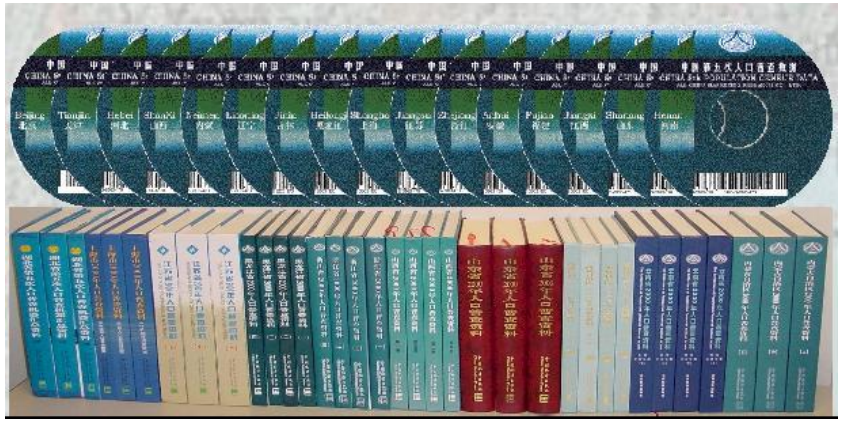
Census Data Assemblies by China Data Institute

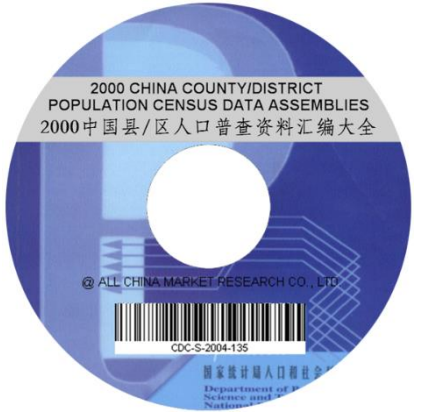
☐ The Complete Collection of China 2000 Provincial Population Census Data Assembly

This CD includes 32 national and provincial population Census data assembly with about 14,200 electronic tables in Excel files from the 5th China population Census. The data is aggregated at national, provincial, city, city district and county levels.

☐ The Complete Collection of China 2000 County Population Census Data Assembly

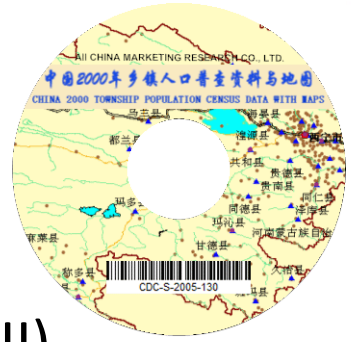
This collection includes 2,876 county and urban district population Census data assemblies with more than 330,000 electronic tables in Excel files from the 5th China population Census. The data is aggregated at city district, county and township levels.

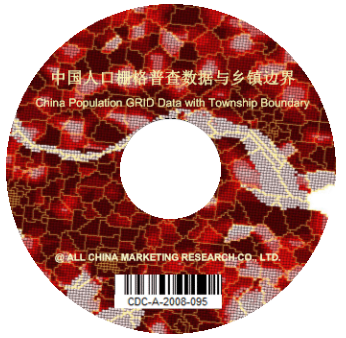




Census Data Maps by China Data Institute

- ☐2000 China Province Population Census Data with GIS Maps
- ☐2000 China City Population Census Data with GIS Maps (III)
- ☐2000 China County Population Census Data with GIS Maps(III)
- ☐2000 China Township Population Census Data with GIS Maps
- ☐2010 China Province Population Census Data with GIS Maps
- ☐2010 China City Population Census Data with GIS Maps (III)
- ☐2010 China County Population Census Data with GIS Maps(III)
- ☐2010 China Township Population Census Data with GIS Maps
- ☐2000-2010 China Province Population Census Data with GIS Maps
- ☐2000-2010 China City Population Census Data with GIS Maps (III)
- ☐2000-2010 China County Population Census Data with GIS Maps (III)
- ☐Historical China County Population Census Data with GIS Maps(1953-2000)
- ☐Historical China County County Census Data with GIS Maps(1953-2000)





Population Census Data with GIS Maps

> 2,000 demographic variables in population Census

Geographical Levels:

Country
|
Province
|
Prefecture
|
County
|
Township
|
1 sq km Grid

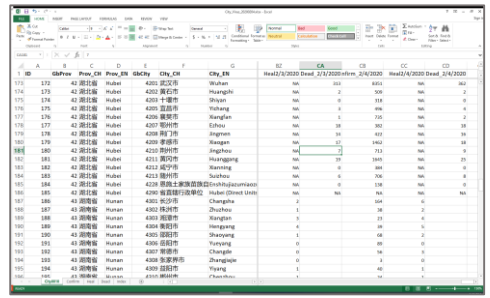
Data Categories:

- ❑ S-1 General Information
- ❑ S-2 Nationalities
- ❑ S-3 Age
- ❑ S-4 Education
- ❑ S-5 Households
- ❑ S-6 Deaths
- ❑ S-7 Migration
- ❑ S-8 Housing
- ❑ L-1 General Information
- ❑ L-2 Nationality
- ❑ L-3 Education
- ❑ L-4 Industries and Occupations
- ❑ L-5 Marriage
- ❑ L-6 Fertility
- ❑ L-7 Migration
- ❑ L-8 Housing

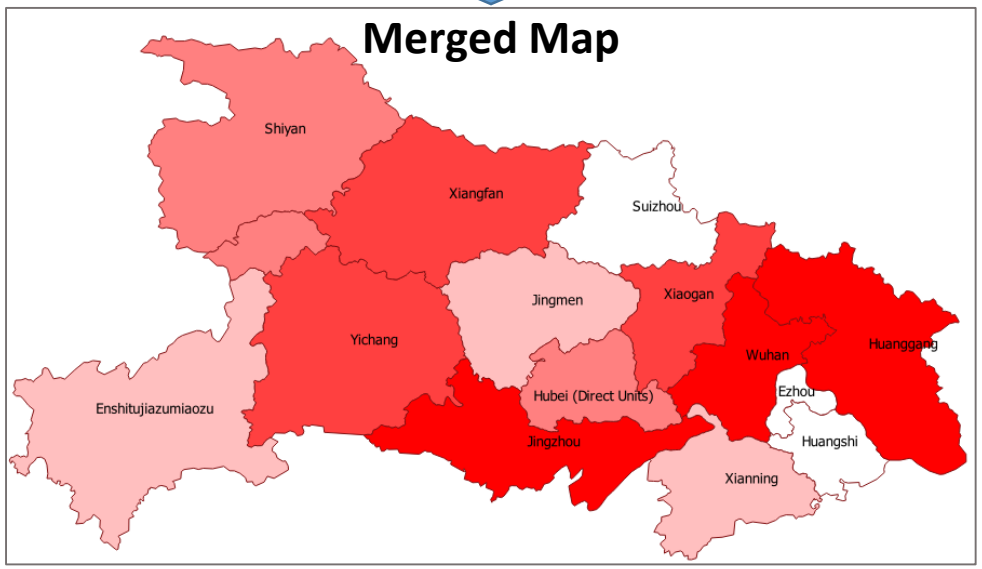
Base Map

+

Census Data



Merged Map



Difference from the Publications by NBS and Others?

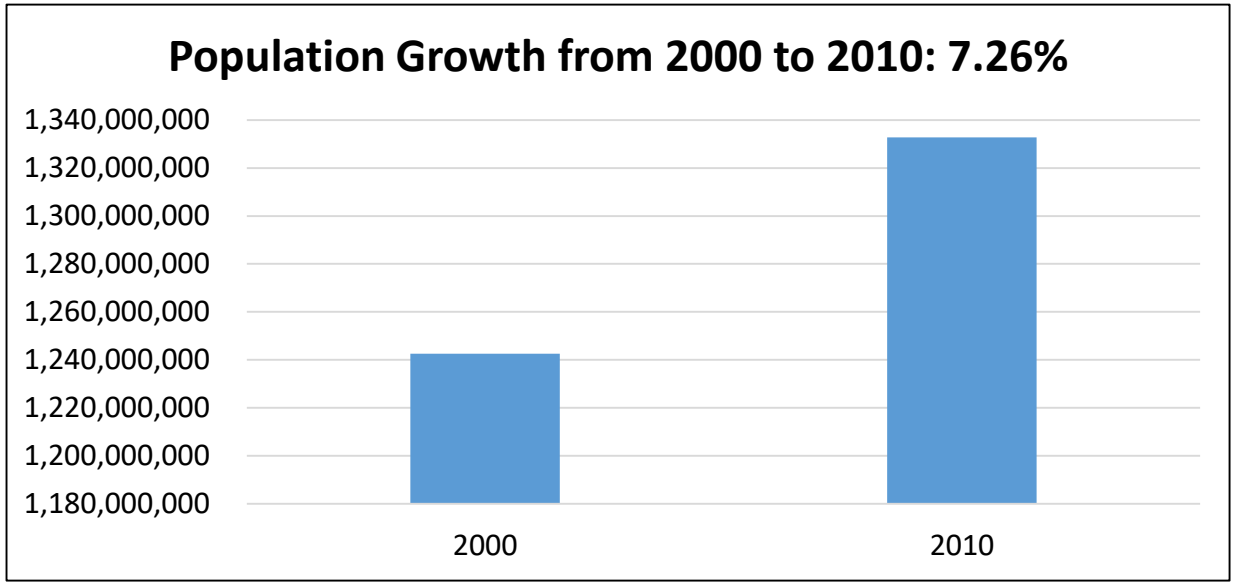
- Electronic data directly from the National Bureau of Statistics with official authorization
- Bilingual in Chinese and English
- Comparable data across regions (province, city and county) and years (2000 and 2010)
- Complete data coverage for all regions
- Integration with GIS maps for spatial data analysis and visualization

Permanent Population

- Reside in current place with **local household registration**
- Resided in the current place for **more than 6 months** without local household registration
- Resided in the current place for **less than 6 months** but have been away from the original places of their household registration for more than 6 months.
- Live in the current place while waiting for **local household registration to be settled**
- **Work or study abroad** during the census with local household registration

Year	Population
2000	1,242,612,226
2010	1,332,810,869

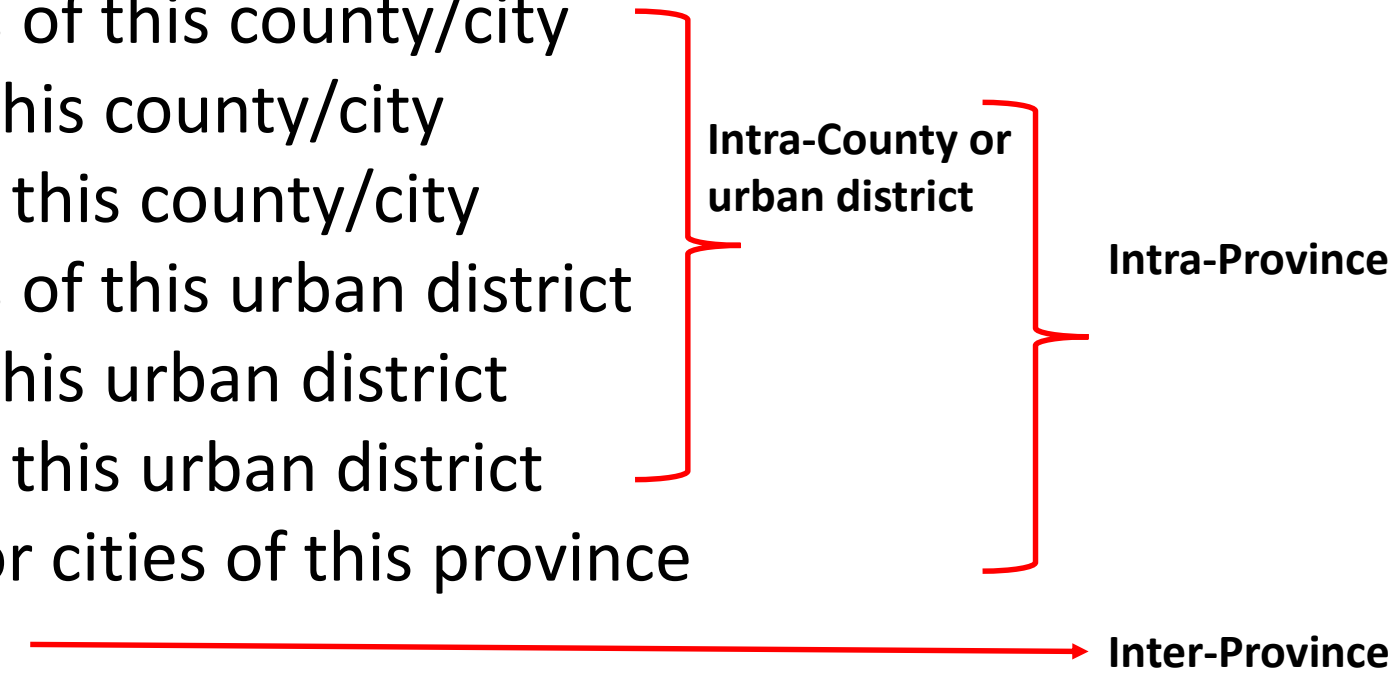
Source: http://china-data-online.com



Migration by Residence and Household Registration

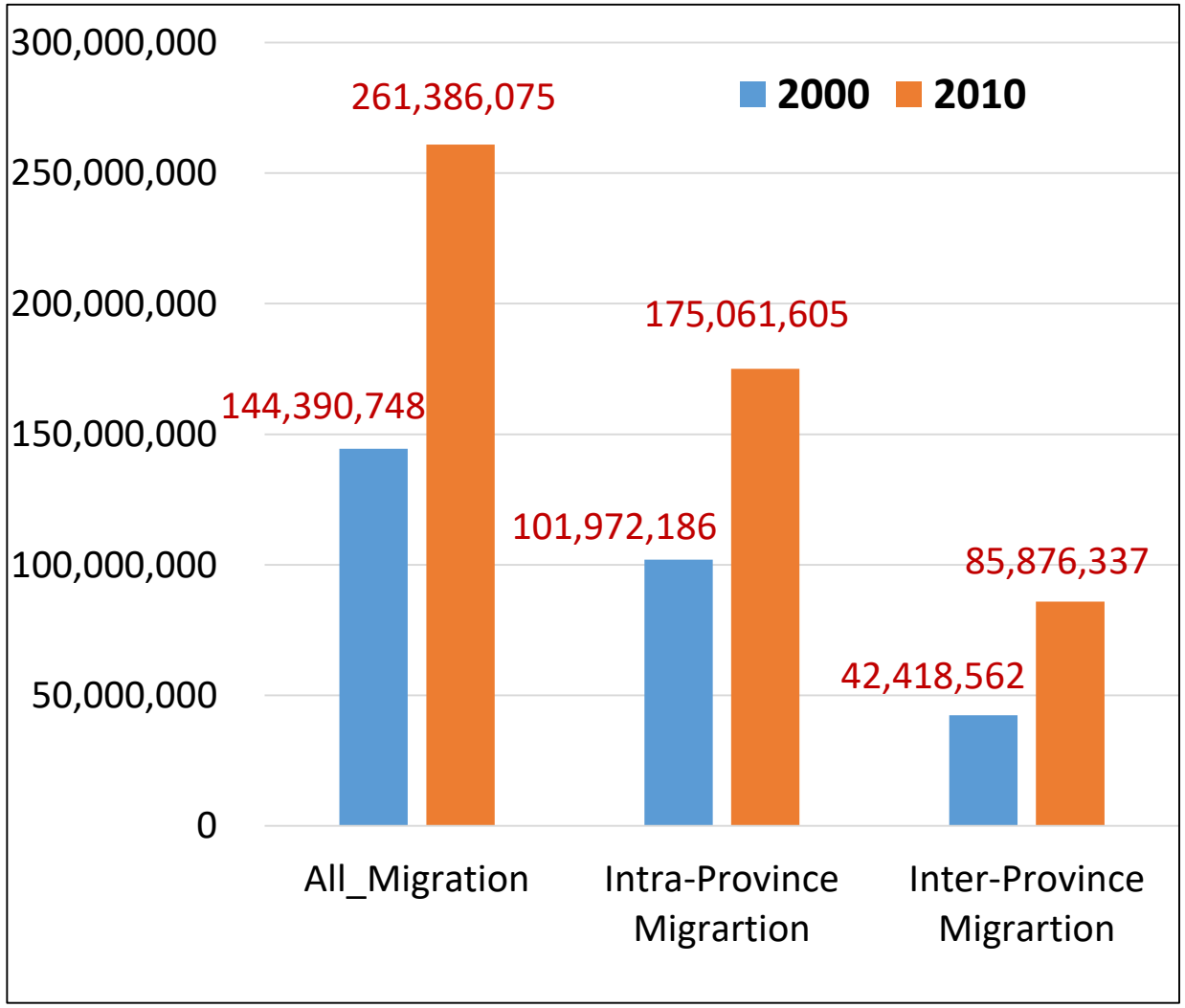
Migration by current residence (more than 6 months and less than 5 years) and current place of household registration (short form: A701)

- From other townships of this county/city
- From other towns of this county/city
- From other Jiedaos of this county/city
- From other townships of this urban district
- From other towns of this urban district
- From other Jiedaos of this urban district
- From other counties or cities of this province
- From other provinces

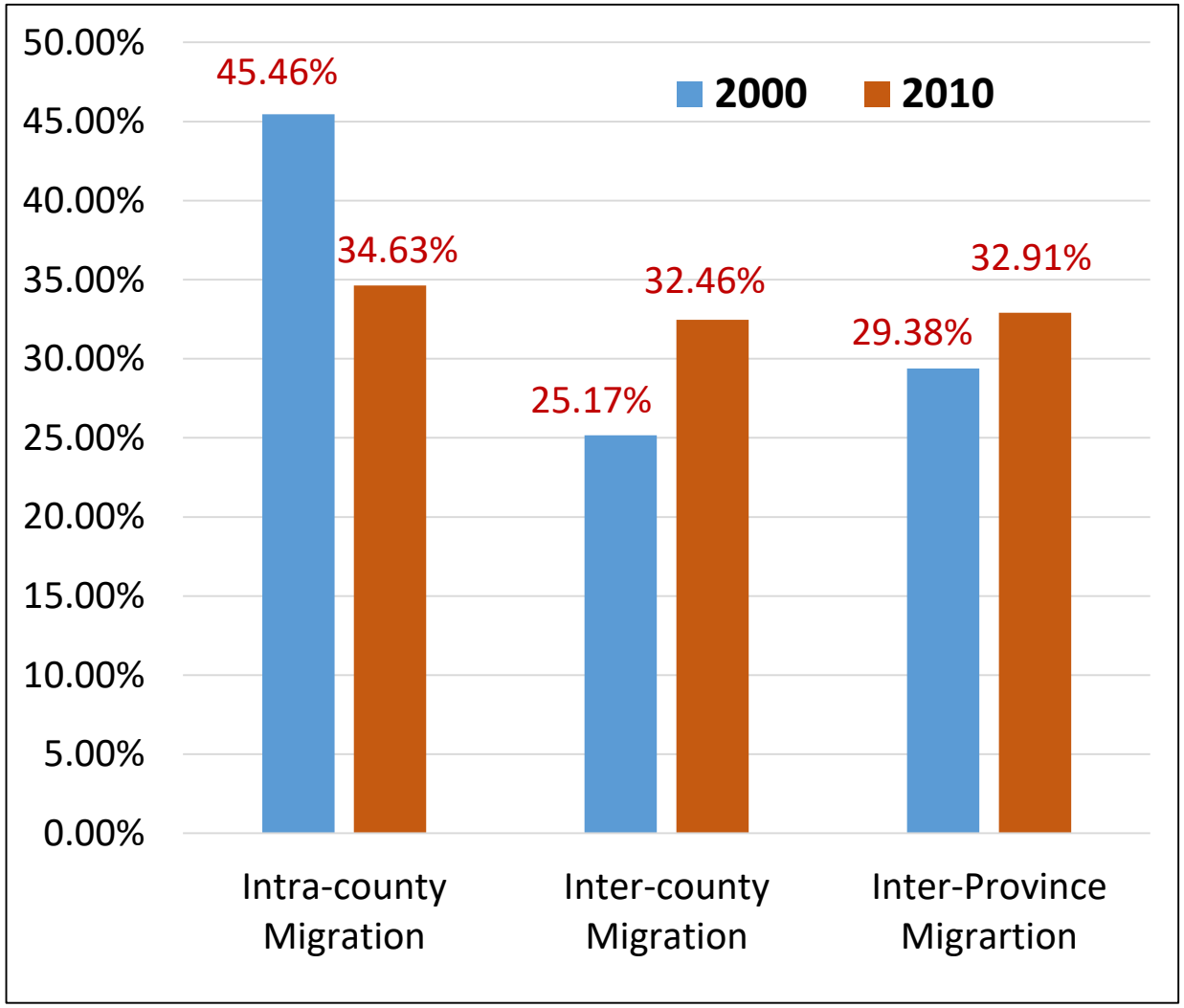


Intra and Inter-Regional Migration: 2000-2010

Changes in migration: 2000 and 2010 (person)



Composition of migration: 2000 and 2010 (%)

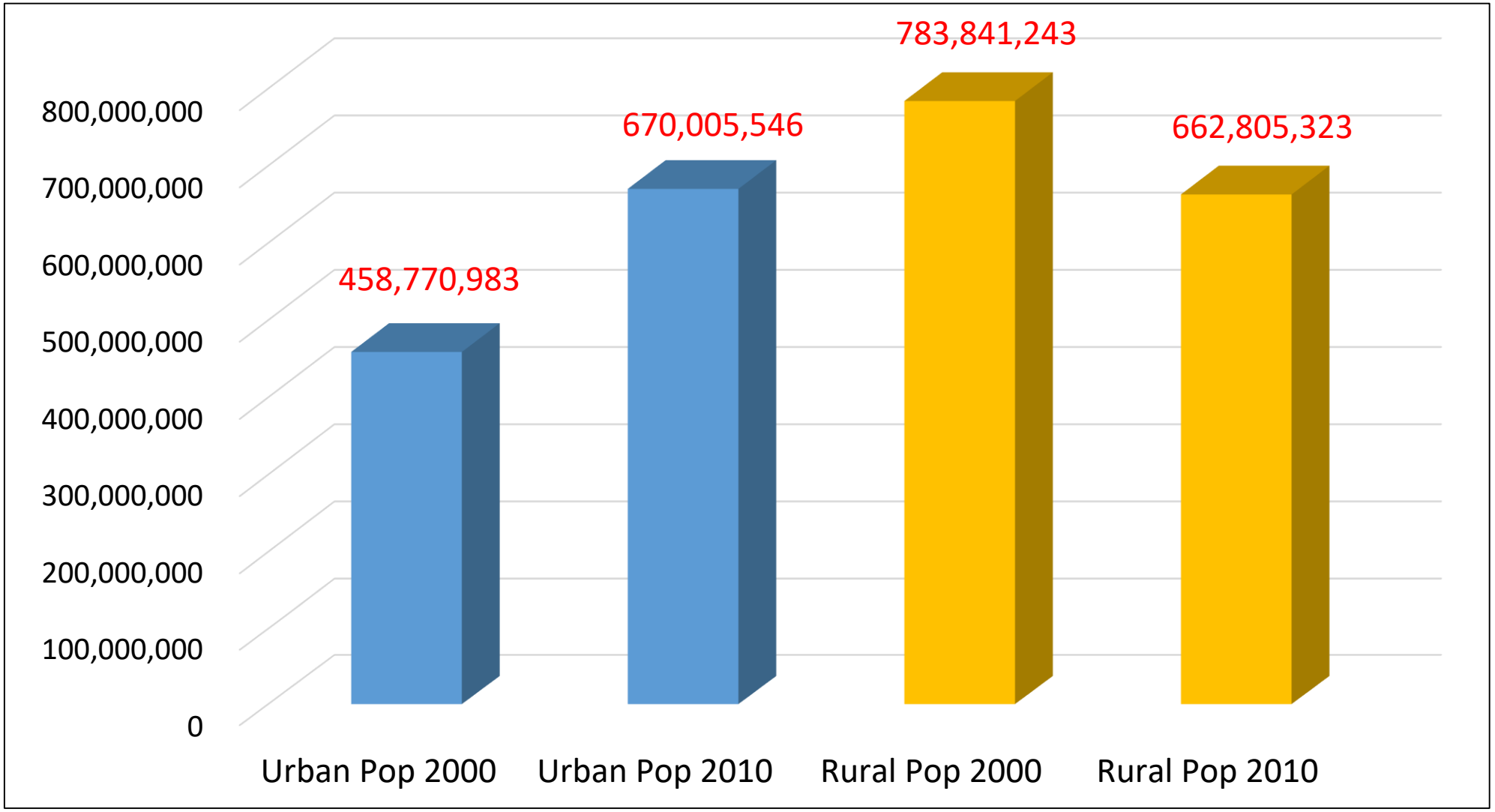


Source: http://china-data-online.com

Urban and Rural Population

100	Urban **城镇**
110	City 城市
111	Urban with Districts (>1500 persons/sq km) 设区市的市区
112	Urban without Districts 不设区市的市区
120	Town 镇
121	The capital town of county 县及县以上人民政府所在建制镇的镇区
122	Other towns 其他建制镇的镇区
200	**Rural 乡村**
210	Rural Townships 集镇
220	Villages 农村
	Others (mines, tourist areas, development zones, etc.)
	Urban if more than 3000 population
	Rural if less than 3000 population

Urban and Rural Population (2000-2010)



Source: http://china-data-online.com

Difference between the US and China Census Data

- **Data collection**

  US: Mailing in forms primarily

  China: household surveys by local census teams and e-form submission
- **Data definition**

  US: current residents in the U.S. and the U.S. federally affiliated overseas population

  China: current residents with Chinese citizenship and those Chinese citizens working or studying aboard
- **Data publications**

  US: Online e-publications primarily

  China: Paper publications primarily
- **Data Coverage**

  US: Household income

  China: No household income
- **Data Implications**

  US: Migration refer to moves that cross a boundary, such as a county or state, and is either domestic migration or international migration

  China: Migration refer to moves that cross a boundary, such as a township, county or province

Pros and Cons

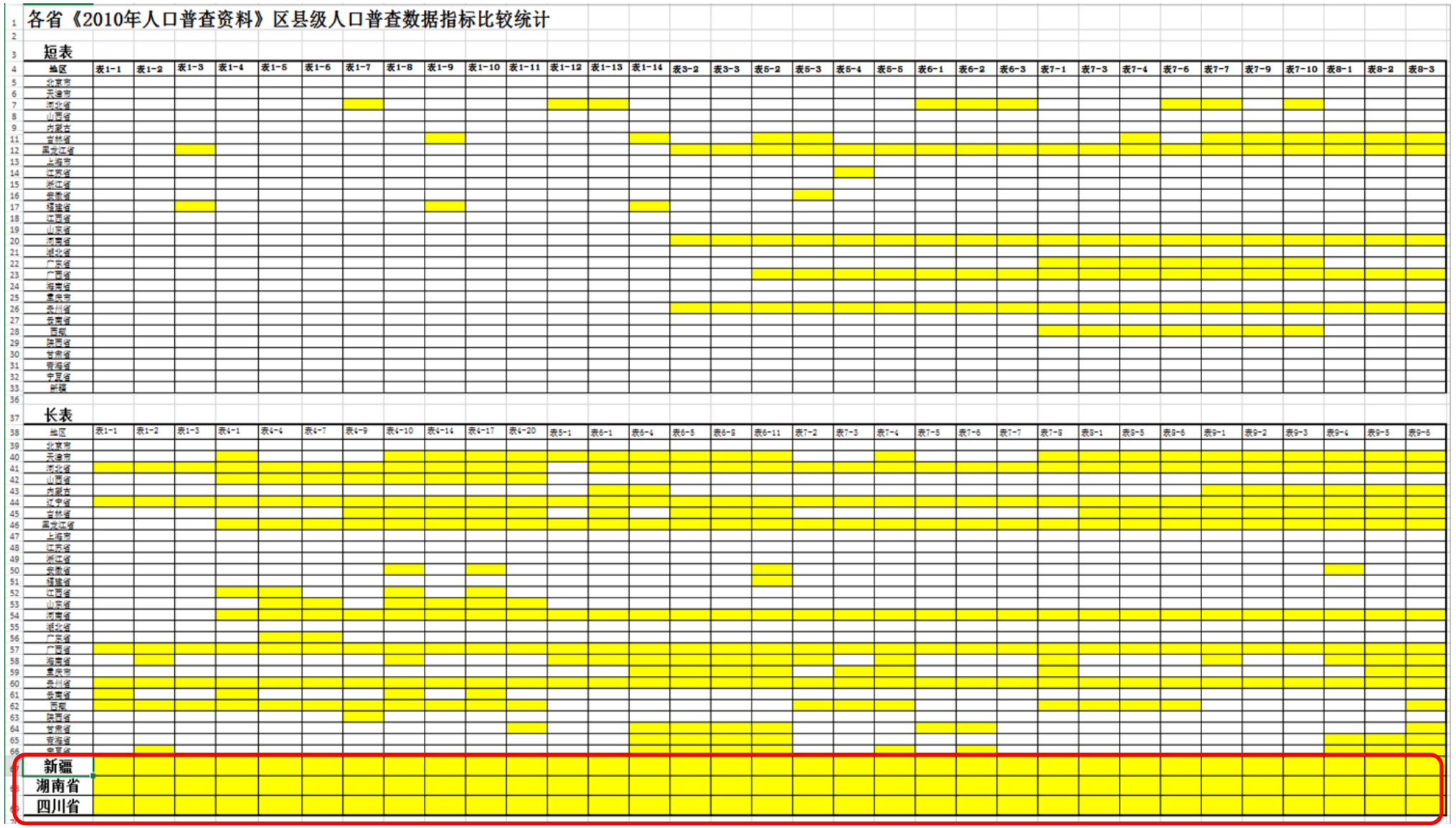
Pros:

- ✓ Nationwide statistical agencies
- ✓ Comprehensive data coverage
- ✓ Authoritative publications

Cons:

- ✓ Most data are in paper publications only
- ✓ Most publications are in Chinese only
- ✓ No income data in household surveys
- ✓ No geo-reference data similar to US TIGER/Line data (Topologically Integrated Geographic Encoding and Referencing)
- ✓ Inconsistent and Incomplete census tables across regions

Missing County Data in the 2010 Provincial Census Data Assemblies



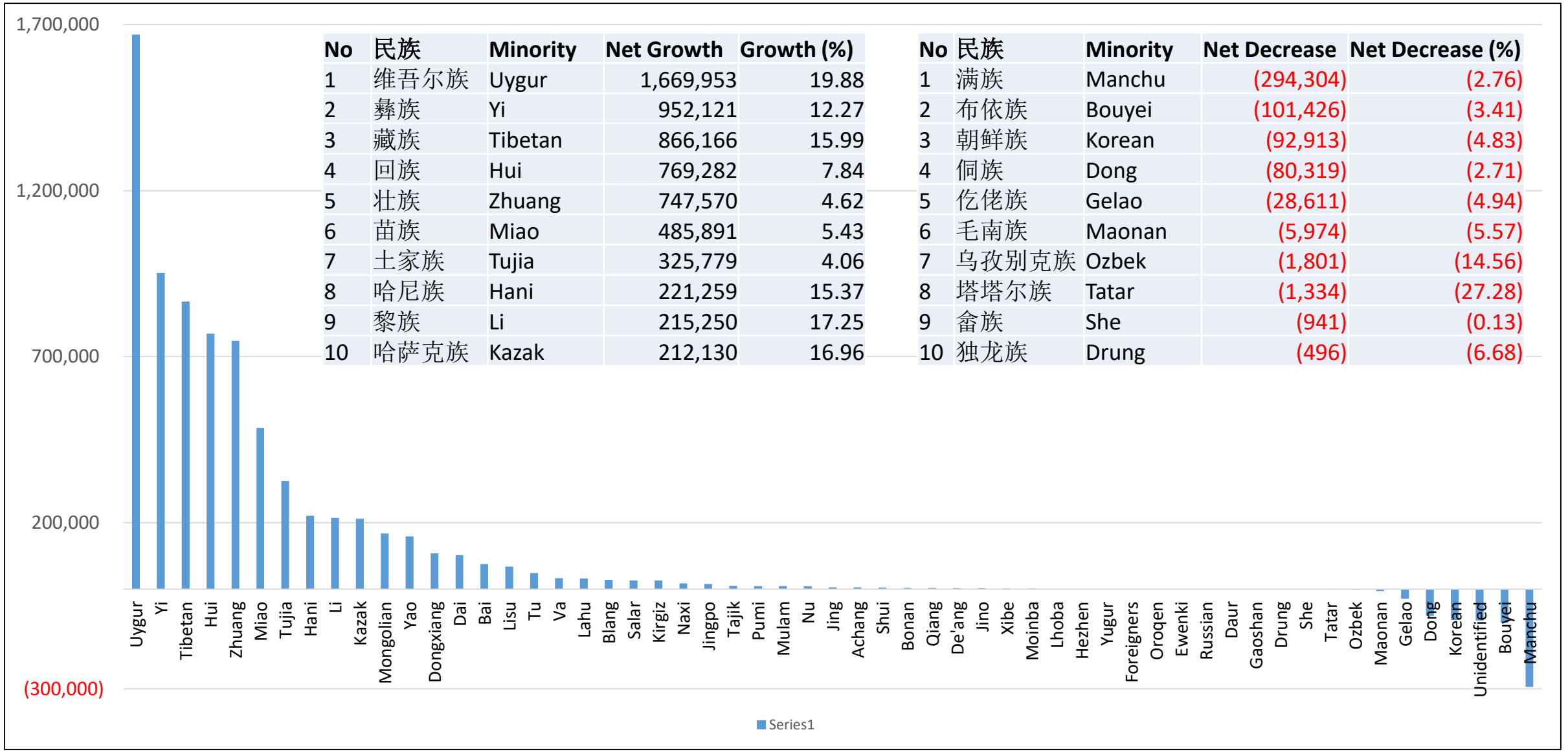
Note: The yellow color indicates missing county data in the 2010 Provincial Census Data Assemblies

Changes in Population by Ethnic Groups (2000-2010)

Source: http://china-data-online.com

No	民族	Minority	Net Growth	Growth (%)
1	维吾尔族	Uygur	1,669,953	19.88
2	彝族	Yi	952,121	12.27
3	藏族	Tibetan	866,166	15.99
4	回族	Hui	769,282	7.84
5	壮族	Zhuang	747,570	4.62
6	苗族	Miao	485,891	5.43
7	土家族	Tujia	325,779	4.06
8	哈尼族	Hani	221,259	15.37
9	黎族	Li	215,250	17.25
10	哈萨克族	Kazak	212,130	16.96

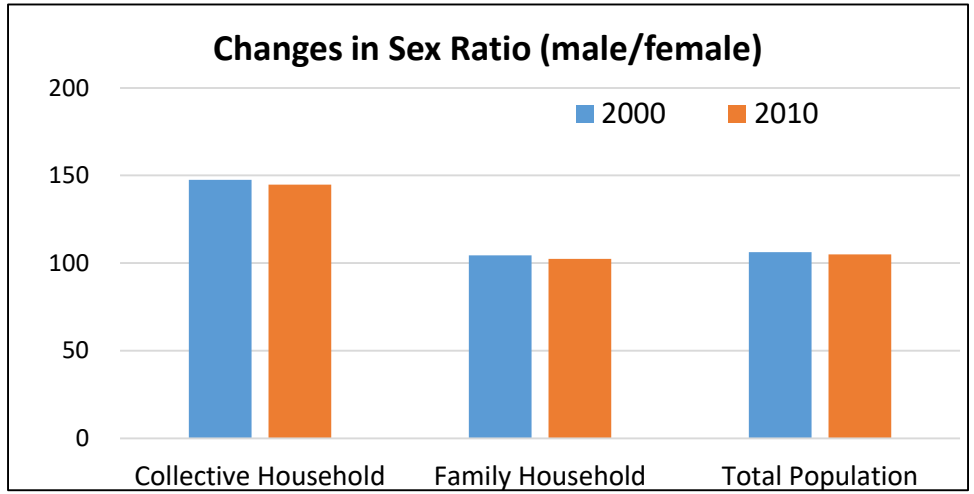
No	民族	Minority	Net Decrease	Net Decrease (%)
1	满族	Manchu	(294,304)	(2.76)
2	布依族	Bouyei	(101,426)	(3.41)
3	朝鲜族	Korean	(92,913)	(4.83)
4	侗族	Dong	(80,319)	(2.71)
5	仡佬族	Gelao	(28,611)	(4.94)
6	毛南族	Maonan	(5,974)	(5.57)
7	乌孜别克族	Ozbek	(1,801)	(14.56)
8	塔塔尔族	Tatar	(1,334)	(27.28)
9	畲族	She	(941)	(0.13)
10	独龙族	Drung	(496)	(6.68)

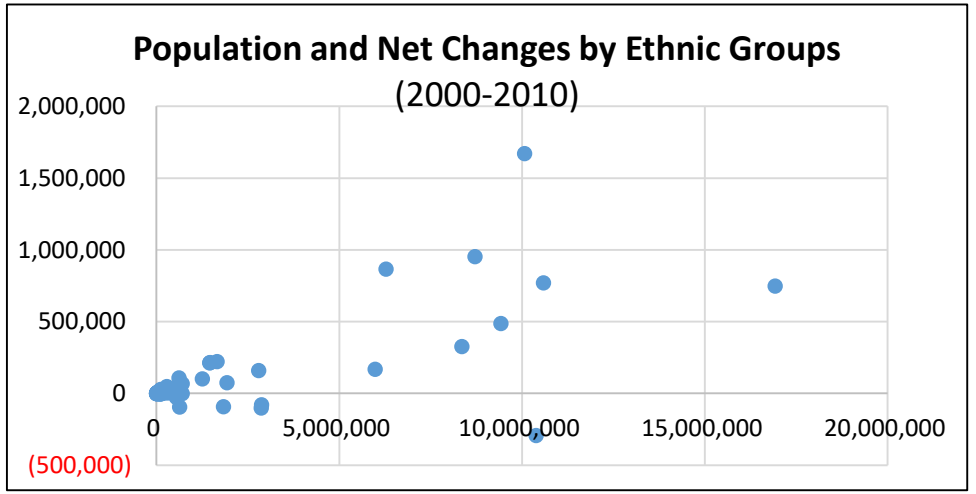


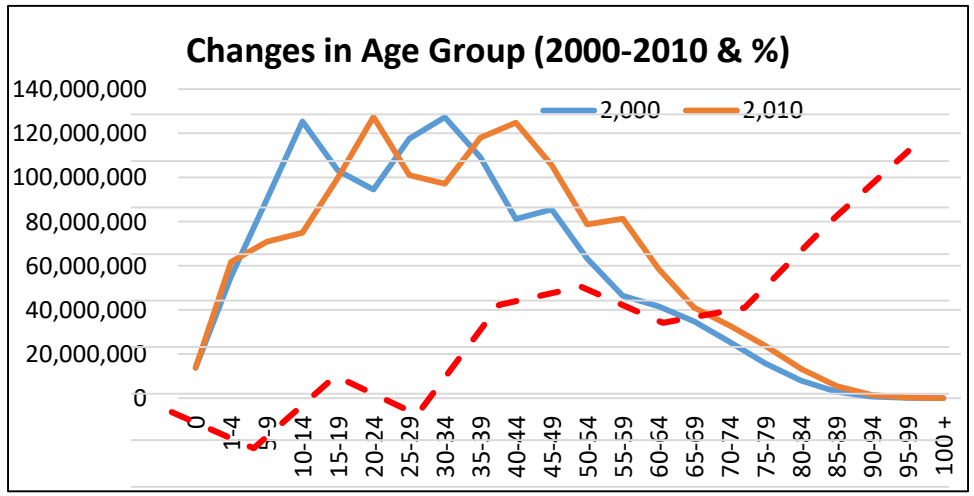
Changes in the Demographic Structure of China

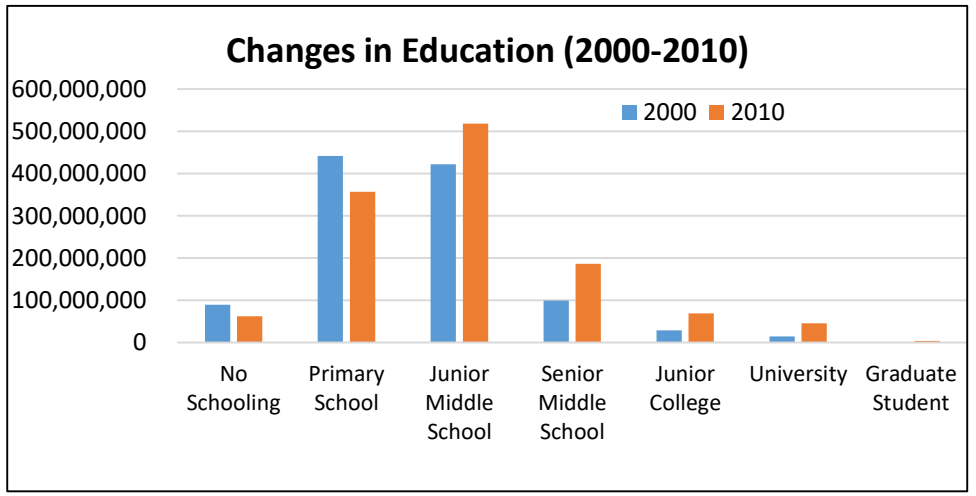
Source: http://china-data-online.com

- The male to female ratio keeps declining
- The ethnic groups with larger size are increasing wile the ethnic groups with small size tend to shrink
- The elder group are increasing while the young groups are declining
- The education of general population are increasing while the student size of primary schools are declining





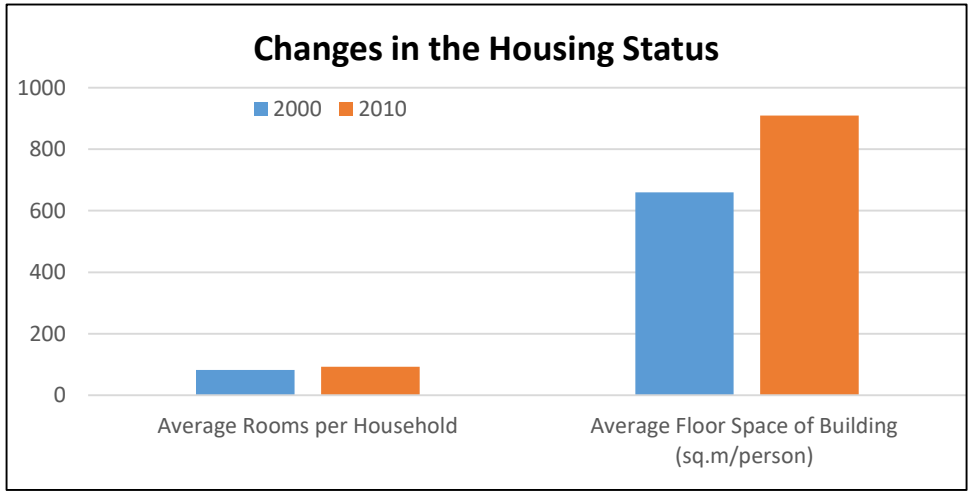


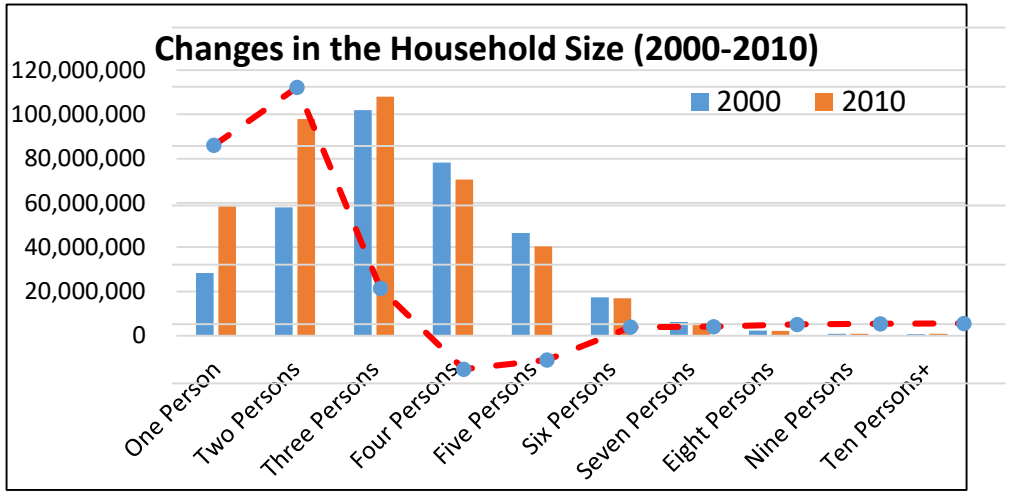


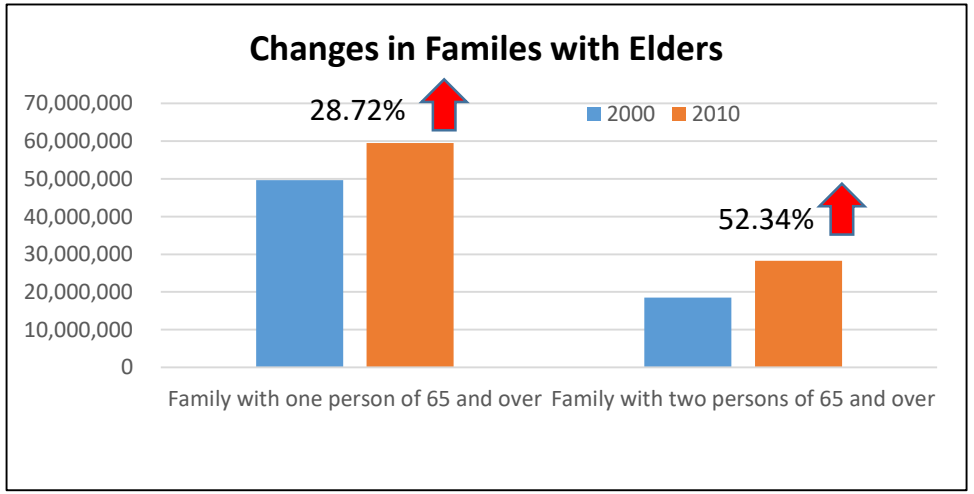
Changes in the Family and Housing Structure of China

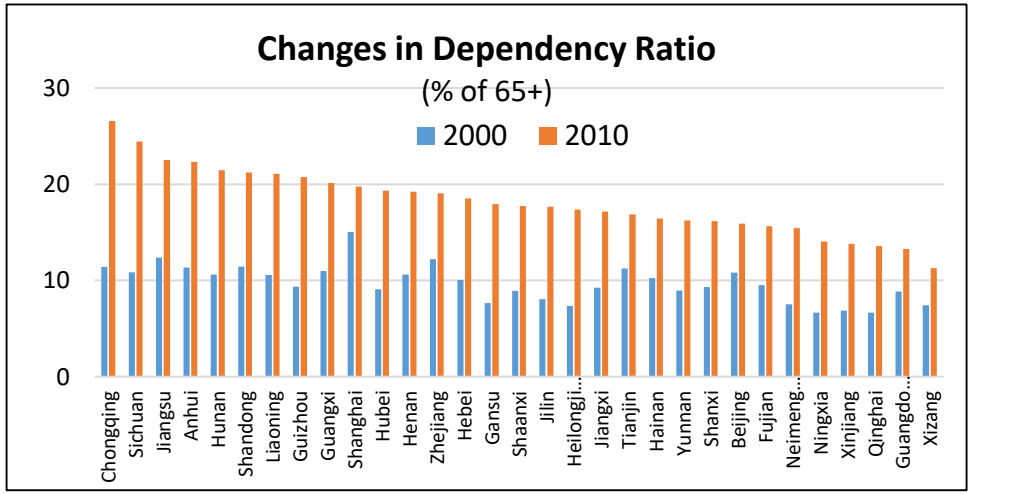
Source: http://china-data-online.com

- There is significant improvement in the average living space per person
- The family size keeps shrinking
- There is an significant increase in the % of families with multiple elders
- There is an significant increase in the elder dependency ratio



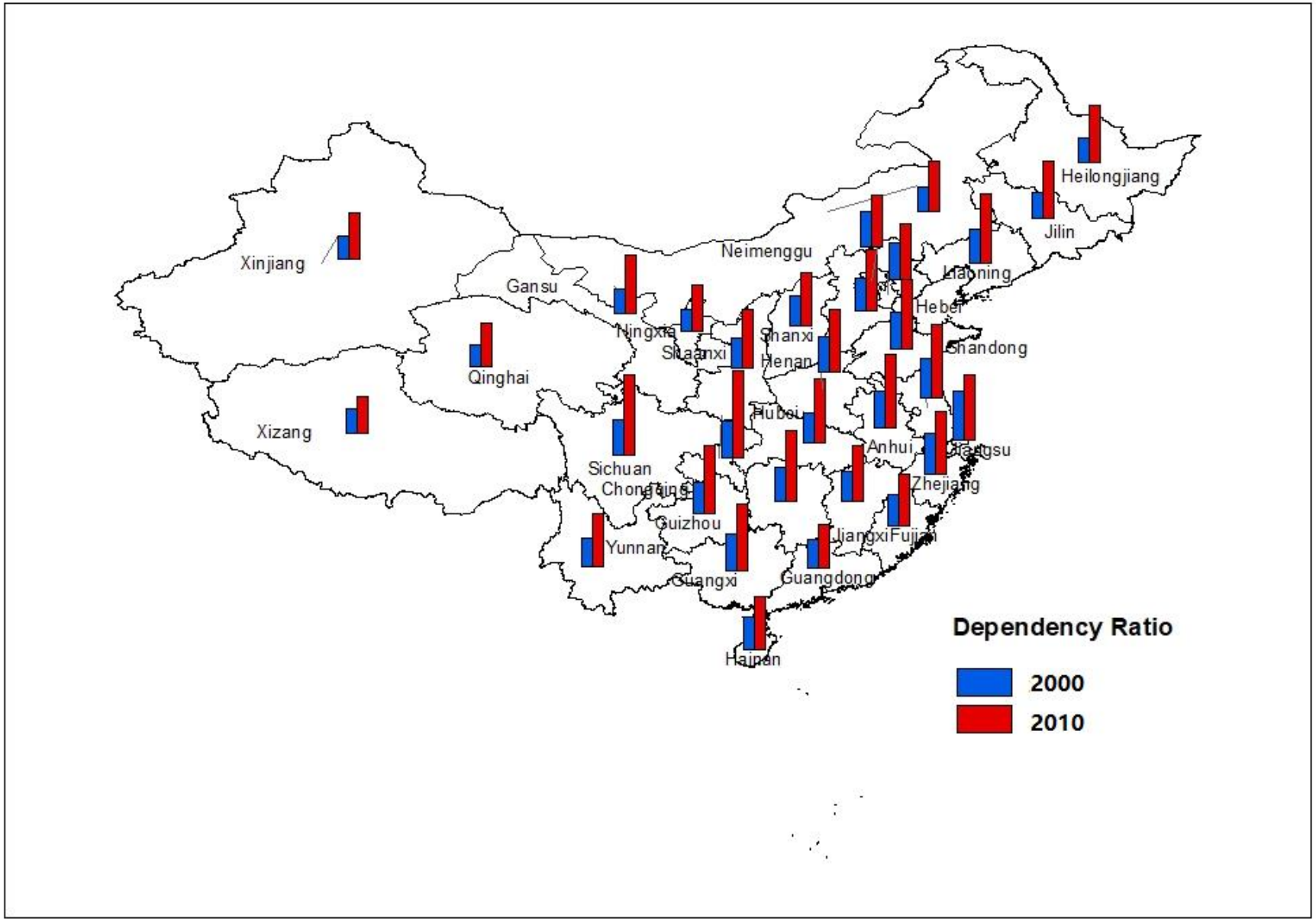






Changes in Dependency Ratio (% of 65+)： 2000-2010

Source: http://china-data-online.com



(III) Economic Census Data

The China Economic Census

- The earliest economic Census in China: **Da Yu**, 2000 BC
- Recent economic censuses:
  - The 1st Census: 2004
  - The 2nd Census: 2008
  - The 3rd Census: 2013
  - The 4th Census: 2018
- Business Units:
  - Legal Unit 法人单位
    - Enterprise 企业法人
    - Government 机关、事业法人
    - Non-profit org 社会团体法人
  - Economic Unit 产业活动单位
    - Manufacture 第二产业
    - Service 第三产业
  - Private 个体经营户
    - Manufacture 第二产业
    - Service 第三产业

Business Unit Classification

2004, 2008, 2013, 2018 Business and Private Units 单位数与个体经营户数								
	2004		2008		2013		2018	
	(in 10,000)	(%)	(in 10,000)	(%)	(in 10,000)	(%)	(in 10,000)	(%)
1. Legal Unit 法人单位	516.9	100	709.9	100	1085.7	100	2178.9	100.0
Enterprise 企业法人	325	62.9	495.9	69.9	820.8	75.6	1857	85.2
Government 机关、事业法人	90	17.4	95.9	13.5	103.7	9.6	107.5	4.9
Non-profit org 社会团体法人	101.9	19.7	118.1	16.6	161.1	14.8	30.5	1.4
Others 其他法人							183.9	8.4
2. Economic Unit 产业活动单位	682.4	100	886.4	100	1303.5	100	2455	100.0
Manufacture 第二产业	167.5	24.6	230	25.9	287.5	22.1	484.1	19.7
Service 第三产业	514.9	75.4	656.4	74.1	1015.9	77.9	1970.9	80.3
3. Private 个体经营户	3921.6	100	2873.7	100	3279.1	100	6295.9	100.0
Manufacture 第二产业	588.7	15	253.8	8.8	188.3	5.7	732.3	11.6
Service 第三产业	3332.9	85	2619.9	91.2	3090.8	94.3	5563.6	88.4

Industrial Classification

行业分类	Industrial Classification
1. 农、林、牧、渔业	1. Farming, Forestry, Animal Husbandry and Fishery
2. 采矿业	2. Mining and Quarrying
3. 制造业	3. Manufacturing
4. 电力、燃气及水的生产和供应业	4. Production and Distribution of Electric Power, Gas and Water
5. 建筑业	5. Construction
6. 交通运输、仓储和邮政业	6. Transport, Storage and Post
7. 信息传输、计算机服务和软件业	7. Information Transmission, Computer Services and Software
8. 批发和零售业	8. Wholesale and Retail Trade
9. 住宿和餐饮业	9. Hotel and Restaurants
10. 金融业	10. Financial Intermediation
11. 房地产业	11. Real Estate
12. 科学研究、技术服务和地质勘查业	12. Scientific Research, Technical Service and Geologic Prospecting
13. 水利、环境和公共设施管理业	13. Management of Water Conservancy, Environ. and Public Facilities
14. 居民服务和其他服务业	14. Services to Households and Other Services
15. 教育	15. Education
16. 卫生、社会保障和社会福利业	16. Health, Social Security and Social Welfare
17. 文化、体育和娱乐业	17. Culture, Sports and Entertainment
18. 公共管理和社会组织	18. Public Management and Social Organization

Business Ownership

所有制类型	Ownership
1. 国有企业	State-Own
2. 集体企业	Collective-Own
3. 股份合作企业	Share Holding
4. 国有联营企业	State-Own Joint
5. 集体联营企业	Collective-Own Joint
6. 国有集体联营企业	State and Collective-Own Joint
7. 其他联营企业	Other Joint
8. 国有独资公司	State-own only
9. 其他有限责任公司	Other Limited
10. 股份有限公司	Share Holding Limited
11. 私营独资企业	Private
12. 私营合伙企业	Private Partners
13. 私营有限责任公司	Private Limited
14. 私营股份有限公司	Private Share Holding
15. 其他内资企业	Other Domestic Funded
16. 合资经营企业(港澳台)	Joint Venture (Hongkong, Macao, Taiwan)
17. 合作经营企业(港澳台)	Joint Operation (Hongkong, Macao, Taiwan)
18. 港澳台商独资企业	Foreign Owned by Hongkong, Macao, or Taiwan
19. 港澳台商投资股份公司	Share Holding Limited (Hongkong, Macao, Taiwan)
20. 中外合资经营企业	Joint Venture
21. 中外合作经营企业	Joint Operation
22. 外资（独资）企业	Foreign Owned Only
23. 外商投资股份有限公司	FDI Share Holding Limited

Employment and Revenue

职工人数规模 Employment (in person)	收入规模 Revenue (in 10,000 Yuan)
1	0-30
1-19	30---50
20-49	50---100
50-99	100--300
100-499	300--500
500-999	500--1000
1000-4999	1000-3000
5000-29999	3000-5000
30000-49999	5000-10000
50000+	10000-30000
	30000-50000
	50000-100000
	100000-150000
	150000-200000
	200000 and over

Economic Census Data Publications by NBS

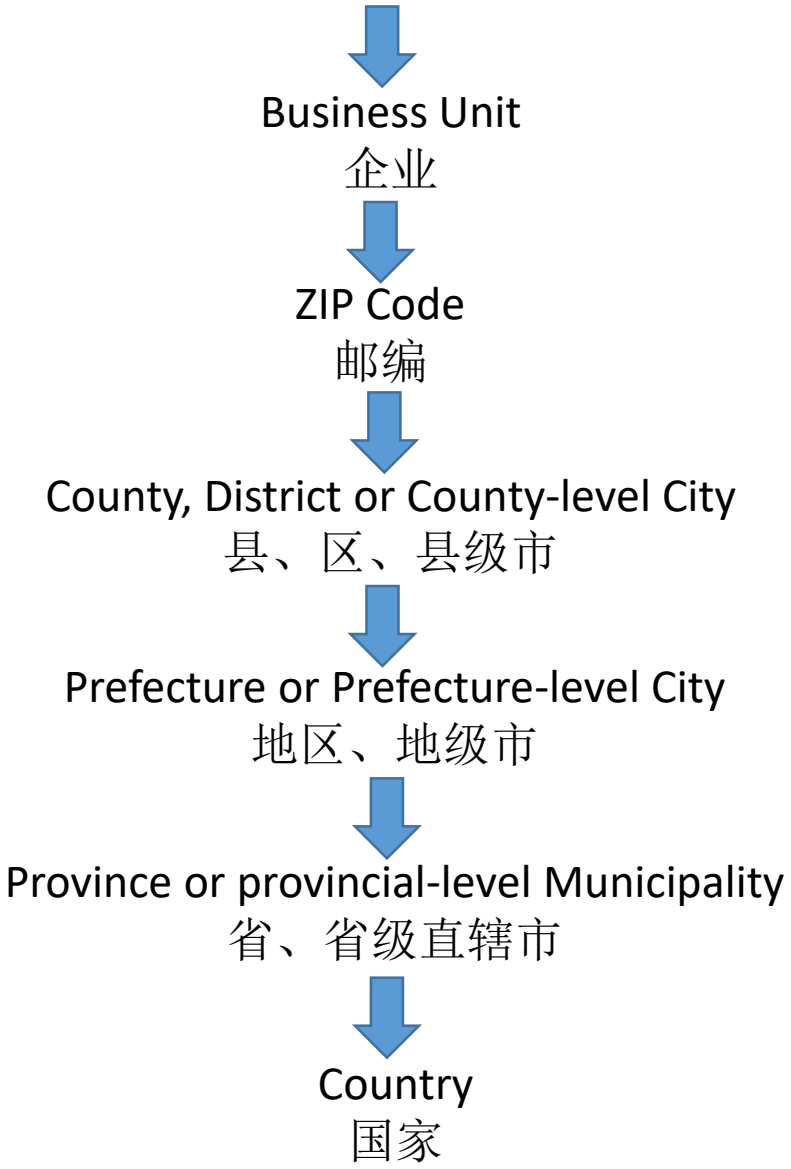
- National Census Bulletin
  经济普查主要数据公报
- Economic Census Yearbook (nation, province, city)
  经济普查年鉴
  - China Economic Census Yearbook
    中国经济普查年鉴
  - Regional Economic Census Yearbook
    地方（省、市）经济普查年鉴

Economic Census Data with GIS Maps

Released by China Data Institute

- **GIS based data product series:**
  - 1995 Industrial Census Data with GIS Maps
  - 2001 Basic Census Data with GIS Maps
  - 2004 Economic Census Data with GIS Maps
  - 2008 Economic Census Data with GIS Maps
  - 2013 Economic Census Data with GIS Maps
  - 2018 Economic Census Data with GIS Maps
- **Available at different administrative levels:**
  - Province (boundary)
  - Prefecture city (boundary)
  - County and district (boundary)
  - Postcode (point)
- **Atlas of China by Industries:**
  - about 7 million firm level records
  - georeferenced to postcode locations

The Flow Charts of Economic Census Data Aggregation



Economic Census Data with GIS Maps

> 1,000 variables in Economic Census

Geographical Levels:

Country

|

Province

|

Prefecture

|

County

|

Postcode

Code of city	The cultivation of cereal
Chinese name of City	The cultivation of tubers
English name of City	The cultivation of Oil Crops
Two digit code of Province in number	The cultivation of Bean
Chinese name of Province	The cultivation of Cotton
English name of Province	The cultivation of Fiber Crops
	The cultivation of Sugar Crops
Total Industrial Units	The cultivation of Tobacco
State-Own	The cultivation of Other Crops
Collective-Own	The cultivation of vegetables
Share Holding	Flowers cultivation
State-Own Joint	Other Gardening Crops cultivation
Collective-Own Joint	Fruits and nuts cultivation
State and Collective-Own Joint	Tea and other drink crops
Other Joint	spice crops
State-own only	Chinese Medicinal Materials
Other Limited	Breeding and seeding
Share Holding Limited	Afforestation
Private	Forest cultivation and management
Private Partners	Wood logging and Transportation
Private Limited	Gathering of Forest Products
Private Share Holding	Livestock raising
Other Domestic Funded	Hog raising
Joint Venture (Hongkong, Macao, Taiwan)	Poultry raising
Joint Operation (Hongkong, Macao, Taiwan)	Others livestock
Foreign Owned by Hongkong, Macao, or Taiwan	Mariculture
Share Holding Limited (Hongkong, Macao, Taiwan)	Ocean fishing
Joint Venture	Inland aquaculture
Joint Operation	Inland fishing
Foreign Owned Only	Irrigation service
FDI Share Holding Limited	Farm Products Original Processing Services

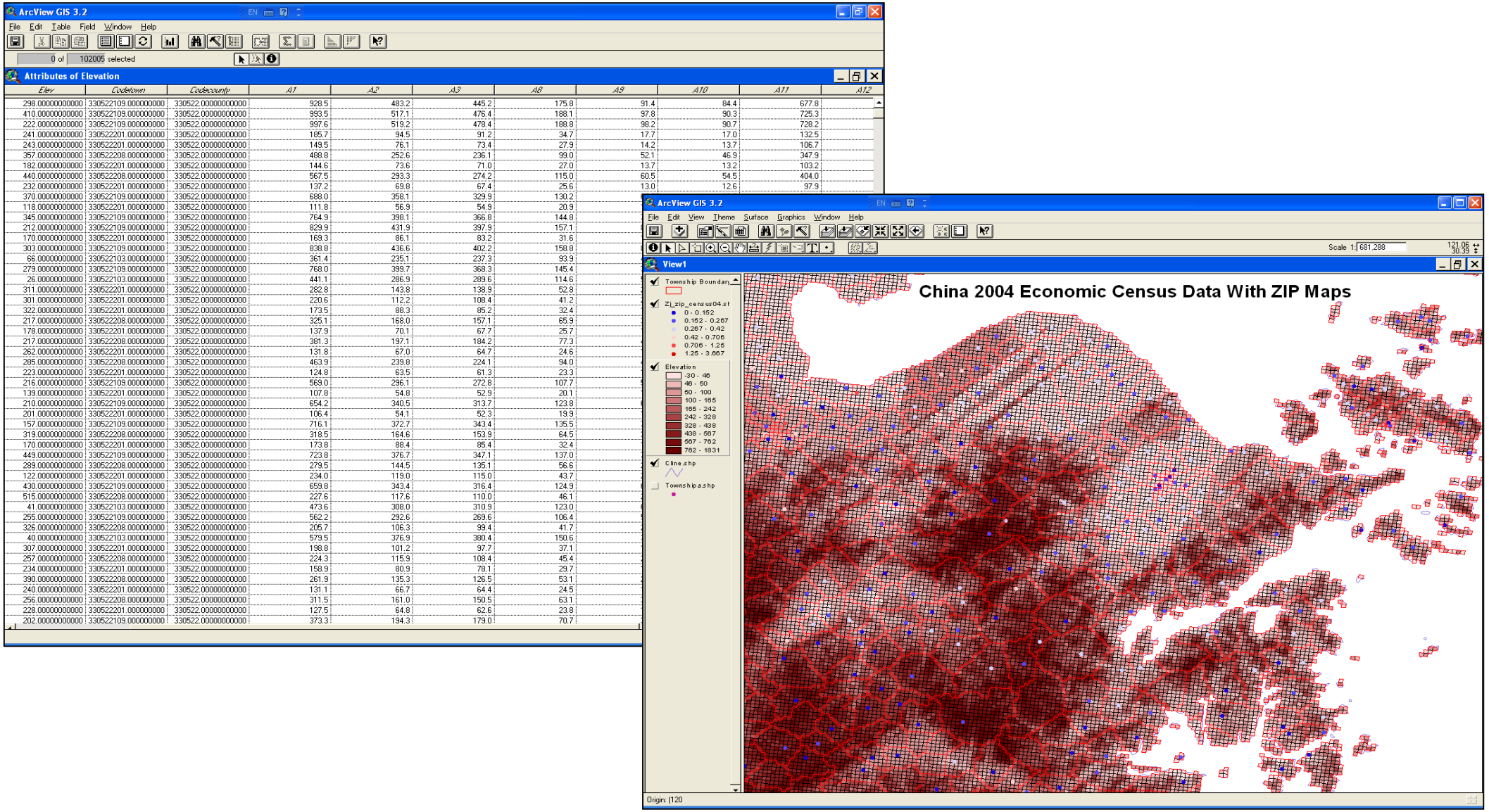
Business Records with GIS Maps

> 7 million firm level records

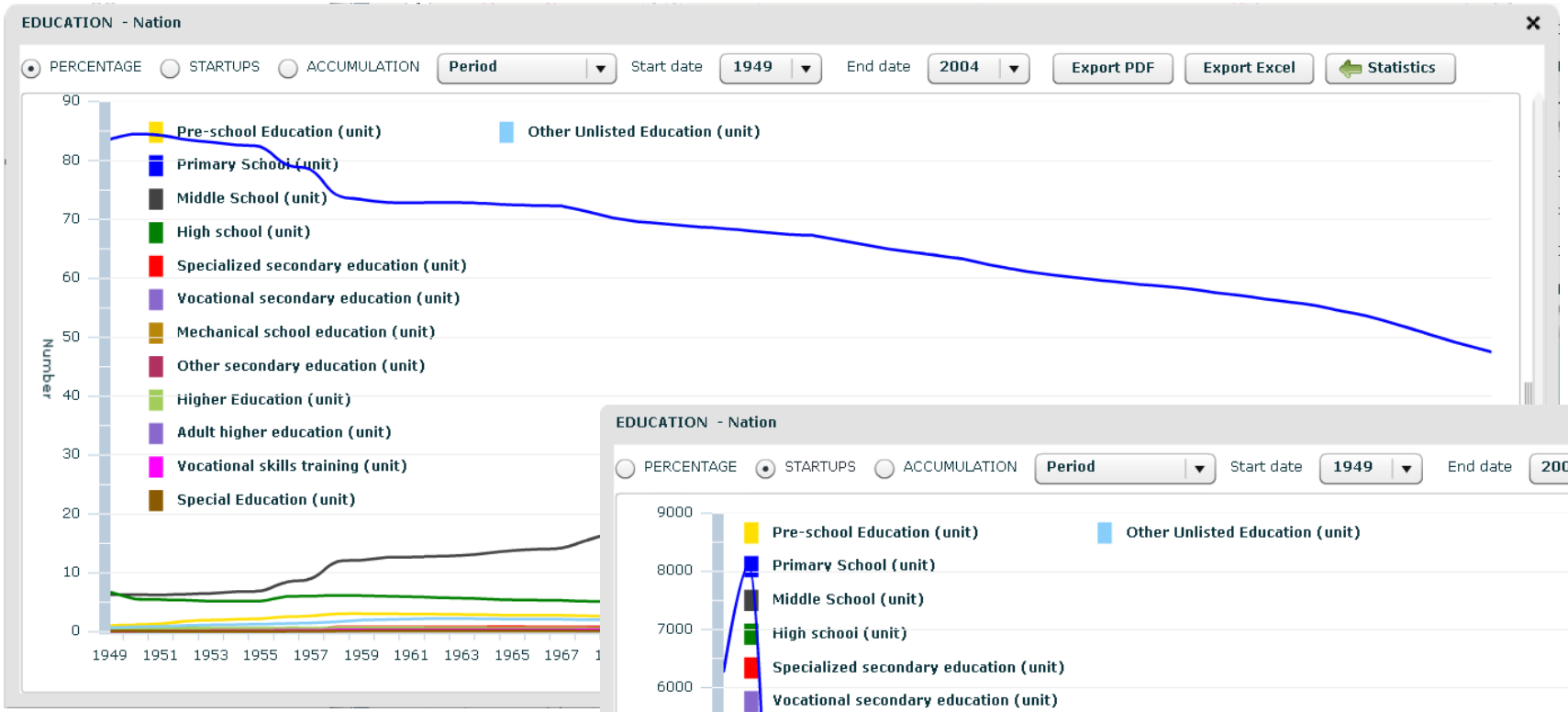
Index	指标说明
Business ID	企业ID
Chinese name	企业中文名称
English name	企业英文名称
Chief Executive Officer	企业CEO中文姓名
Address Code	企业地址代码
Address in Chinese	企业地址中文名称
Address in English	企业地址英文名称
Area number	企业所在区号
Phone number	企业电话号码
Postcode	企业原始邮编
Primary products in Chinese	企业主要产品中文名称
Primary products in English	企业主要产品英文名称
Ownership code	企业经济类型代码
Ownership type in Chinese	企业经济类型中文名称
Ownership type in English	企业经济类型英文名称
Starting year	企业开业时间
Revenue range code	企业营业收入范围代码
Revenue range in Chinese	企业营业收入范围中文名称
Revenue range in English	企业营业收入范围英文名称

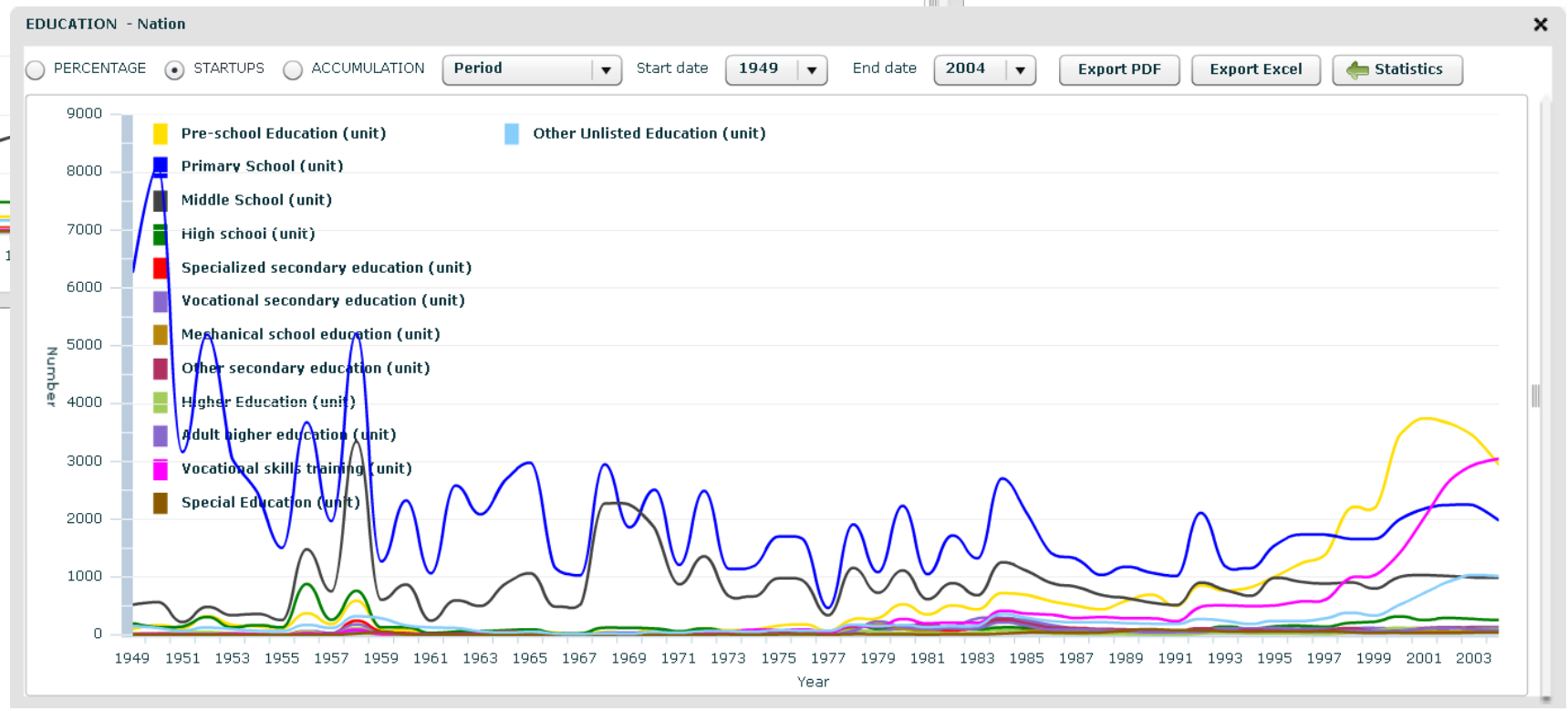
Index	指标说明
Employee scale code	企业职工人数规模代码
Employee scale in Chinese	企业职工人数规模中文名称
Employee scale in English	企业职工人数规模英文名称
Province code	企业所在省代码
Province Chinese name	企业所在地址省中文名称
Province English name	企业所在地址省英文名称
City code	企业所在市代码
City Chinese name	企业所在地址市中文名称
City English name	企业所在地址市英文名称
County code	企业所在县代码
County Chinese name	企业所在地址县中文名称
County English name	企业所在地址县英文名称
Township code	企业所在乡镇代码
Township Chinese name	企业所在地址乡镇中文名称
Township English name	企业所在地址乡镇英文名称
Postcode in 2004	企业2004年邮编
X coordinate	企业所在位置的经度
Y coordinate	企业所在位置的纬度

Economic Census Data With GIS Maps



Business Data with Starting Years





Unique Features of Economic Census Data by CDI

- **Electronic** data directly from the National Bureau of Statistics with official authorization
- **Language** available in Chinese and English
- **Geo-referenced** census data with GIS maps
- Available for **different levels** (province, city and county)
- Available for 2000 and 2010 **base maps**
- **Complete** data coverage for all regions

Difference between the US and China Census Data

- **Data collection**
  - US: Sample surveys, every year
  - China: All business units, every five years
- **Data publications**
  - US: Online e-publications at county level primarily
  - China: Paper publications at province level primarily
- **Data Classifications**
  - US: More service sectors than manufacture
  - China: More manufacture than service sectors

Pros and Cons

Pros:

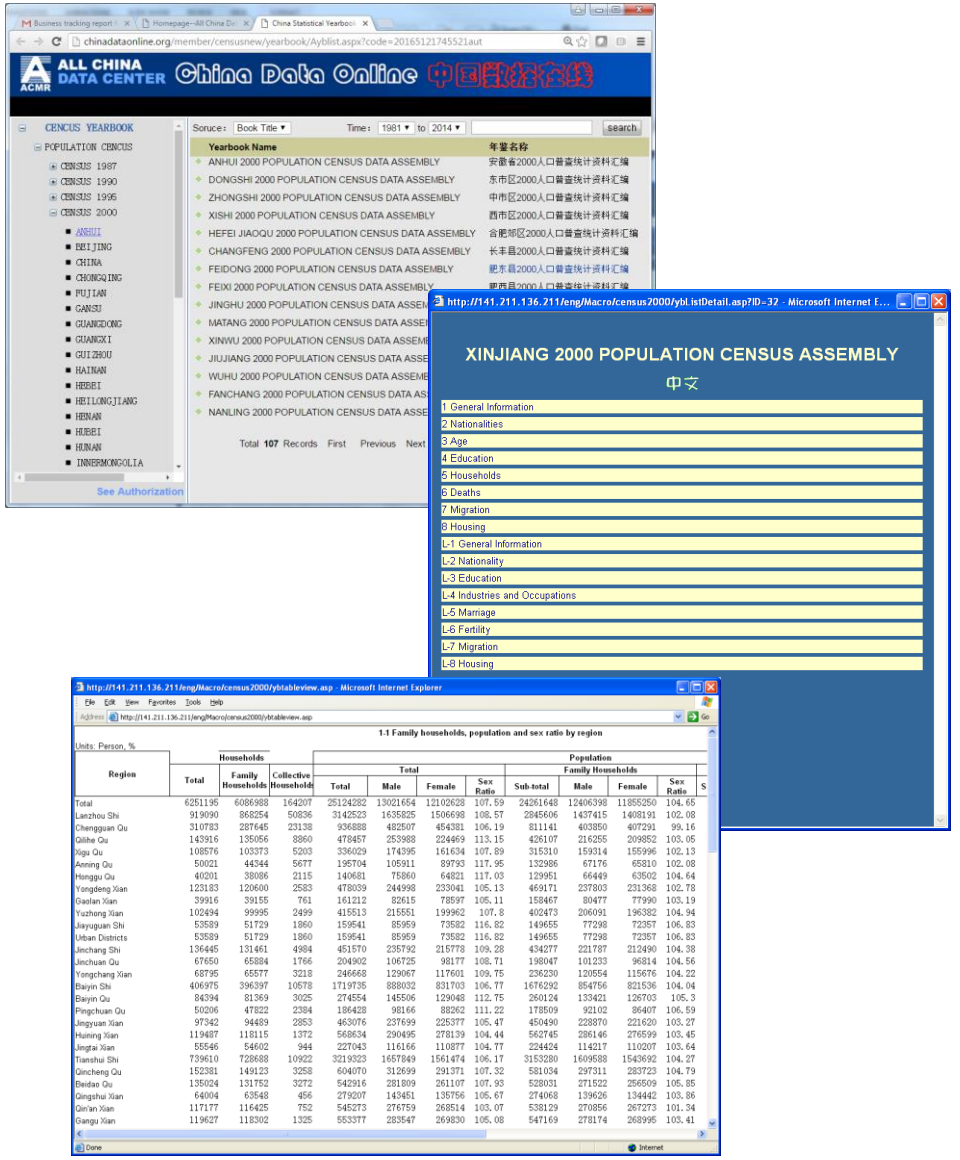
- ✓ Nationwide statistical agencies
- ✓ Comprehensive data coverage
- ✓ Authoritative publications

Cons:

- Most data are in paper publications only
- Most publications are in Chinese only
- No geo-reference data
- Incomplete census publication across regions

Access to the Census Data

- Order CD products:
  http://chinadatacenter.net
- Online access to e-books:
  http://china-data-online.com
- Online access to census maps:
  http://china-data-online.com Online access to spatial data:
  http://chinageoexplorer.com



China Data Online: http://china-data-online.com

https://www.china-data-online.com

Welcome China Data Center , your IP is: 98.224.227.102 Today is: 2019/2/27 EST USA

ALL CHINA DATA CENTER ACMR

China Data Online 中国数据在线

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CHINA SPATIAL DATA

- China Geo-Explorer II
- China Geo-Explorer I
- China Map Library

CHINA STATISTICS

- Monthly Statistics
- National Statistics
- Provincial Statistics
- City Statistics
- County Statistics
- Monthly Industrial Data
- Yearly Industrial Data
- Statistics on Map
- Statistical Datasheets
- Statistical Charts

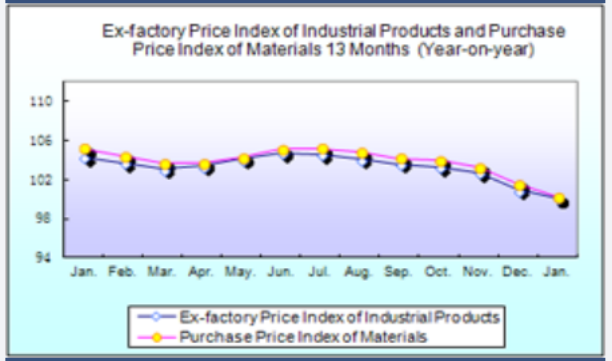
CENSUS DATA

- Census Maps
- All Census Data
- Economic Census 2004
- Industrial Census 1995
- Census 1982
- Census 1982 (10%)
- Census 1990
- Census 1995 (1%)
- Province 2000
- County 2000
- Census 2005 (1%)
- Census Data Search

FREE CHINA MAPS

2000 Population Census | Pop & Env (1990-1999) | Pop & Env (2000) | Atlas of Industrial Census

Producer Prices for the Industrial Sector for January 2019



Latest China Statistical News

Producer Prices for the Industrial Sector for January 2019 (2/15/2019)

Consumer Prices for January 2019 (2/15/2019)

The Gross Imports and Exports increased in the First Month of 2019 (2/14/2019)

Total Retail Sales of Consumer Goods up by 9.0 percent in the first twelve month... (1/24/2019)

China Data Online

❑ CHINA STATISTICS

- Monthly Statistics
- National Statistics
- Provincial Statistics
- City Statistics
- County Statistics
- Monthly Industrial Data
- Yearly Industrial Data
- Statistics on Map
- Yearbook Database
- Statistical Datasheets
- Statistical Charts

❑ CENSUS DATA

- Census Databooks
- Census Data Search (2000)
- Census Maps
  - Census 2010
  - Census 2000
  - Economic Census 2008
  - Economic Census 2004
  - Basic Unit Census 2001
  - Industry Census 1995

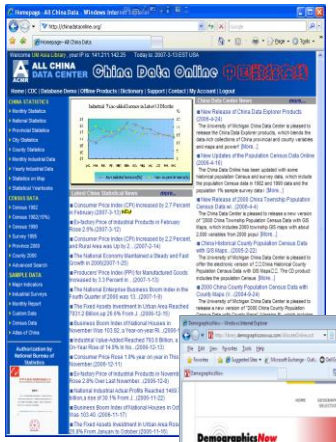
❑ SPATIAL DATA

- China Geo-Explorer I
- China Geo-Explorer II
- US Geo-Explorer
- China Map Library
- US Map Library
- Free Mapping

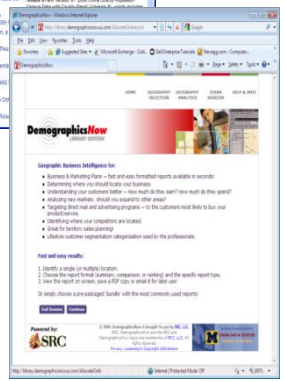
China Geo-Explorer:

An Integration of Census Data with GIS Maps with > 6,500 variables

Statistics

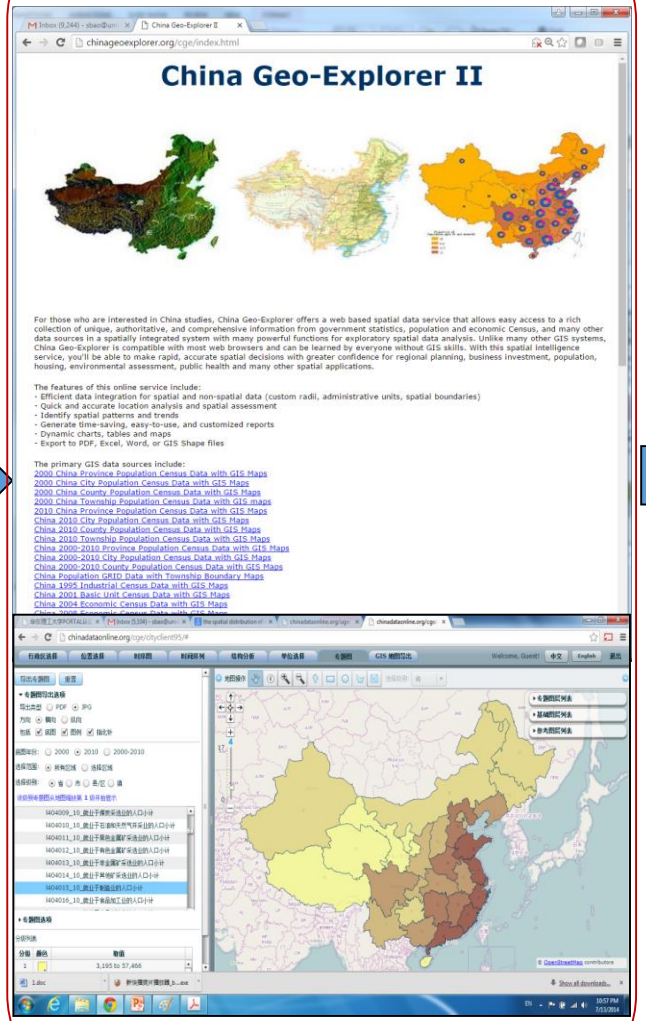


Census

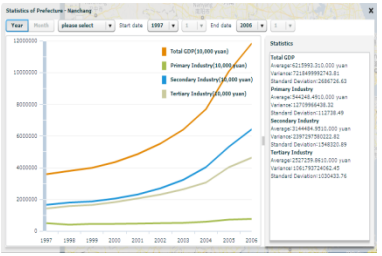


GIS

China Geo-Explorer

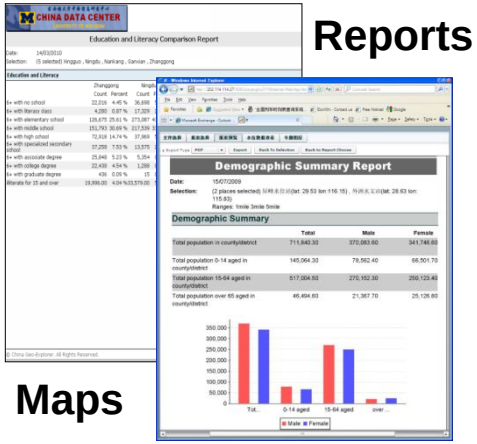


Charts

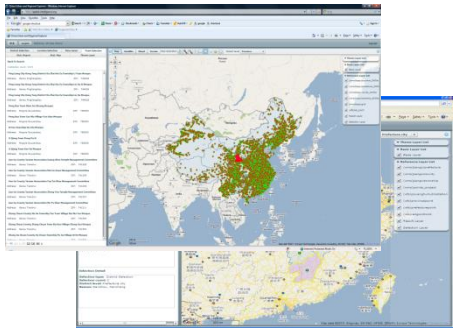


Tables

Reports



Maps



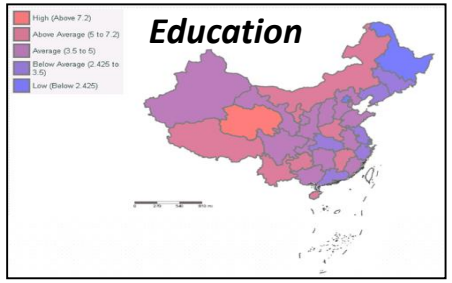
China Data Coverage

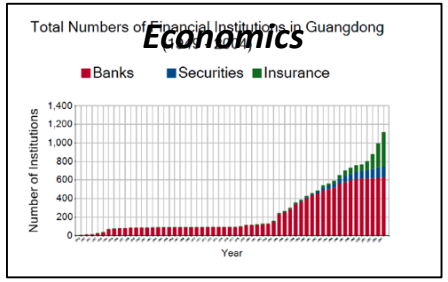
- **Government Statistics**
  - Provincial Statistics (1949 -)
  - City Statistics (1996 -)
  - County Statistics (1997 -)
- **Population Census**
  - Census 1953
  - Census 1964
  - Census 1982
  - Census 1990
  - Census 2000/2010 (province, city, county, township, GRID)
- **Economic Census**
  - Industrial Census 1995 (province, city, county, ZIP)
  - Basic Unit Census 2001 (province, city, county, ZIP)
  - Economic Census 2004/2008 (province, city, county, ZIP)
- **Establishments** (more than 7 millions companies and organizations)
- **Geography and Environment**
  - Land Use data
  - Night-Time data
- **Base Maps**
  - 2000
  - 2010
  - 2000-2010

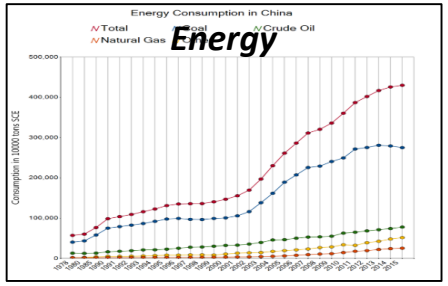
New Generation of Statistics in Digital Age

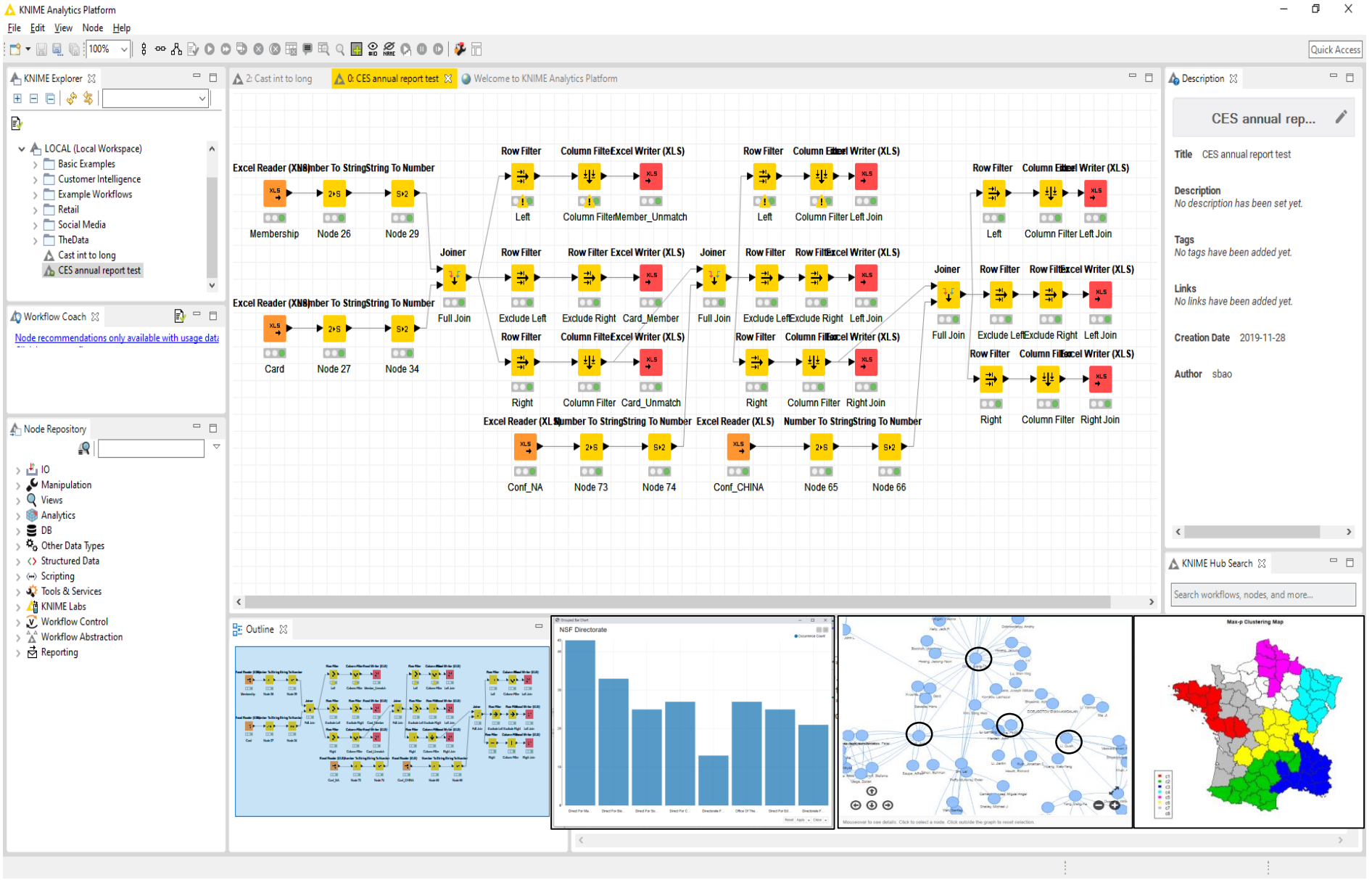
- Diversified data sources
- Non-gov’t data sources
- Big data sources
- Publically available data
- Real-time data
- More detailed data
- **More chaos in data (=> data puzzle)**

Replicable, Reproducible and Expandable Data Analysis









Monthly Training Webinars on Research Data

Registration: https://www.eventbrite.com/e/87068378865/

- ☐ 9/24/2020, Understanding Gov't Statistics
- ☐ 10/22/2020, Understanding Population Census and Demographic Changes
- ☐ 11/19/2020, Understanding Economic Census and Industrial Changes
- ☐ 12/17/2020, Understanding Administrative Maps and Regional Geography
- ☐ 1/21/2021, Spatial Study of Innovation with Patent Data
- ☐ 2/18/2021, Spatial Study of Health with Statistics, Census and GIS Data
- ☐ 3/18/2021, Spatial Study of Environment with Statistics, Census and GIS Data
- ☐ 4/22/2021, Understanding Urban Development
- ☐ 5/20/2021, Understanding Rural Development
- ☐ 6/17/2021, Understanding Mobility in Time and Space
- ☐ 7/15/2021, Understanding Culture in Time and Space
- ☐ 8/12/2021, New Development and Directions: Data, Tools and Applications

Training Webinars on Workflow-based Data Analysis

- Co-sponsored by RMDS Lab and Future Data Lab

Registration: https://www.eventbrite.com/e/121260468325

- ☐ 10/1/2020 Statistical Data Analysis With Workflows
- ☐ 11/6/2020 Analysis of Population Census Data & Demographic Change
- ☐ 12/3/2020 Analysis of Economic Census Data & Industrial Change
- ☐ 1/7/2020 The Integration of Data and Maps for Spatial Analysis
- ☐ 1/28/2021 Spatial Analysis of Patent Data
- ☐ 2/25/2021 Spatial Analysis of Health with Statistics, Census and GIS Data
- ☐ 3/25/2021 Spatial Analysis of Environment with Statistics, Census and GIS Data
- ☐ 4/29/2021 Spatiotemporal Analysis of Urban Development
- ☐ 5/27/2021 Spatiotemporal Analysis of Rural Development
- ☐ 6/24/2021 Human Mobility in Space and Time
- ☐ 7/22/2021 Spatiotemporal Analysis of Culture and Society
- ☐ 8/19/2021 Future Data Analysis: New Development and Directions

Web Sites

China Data Online

http://china-data-online.com

China Data Center

http://chinadatacenter.net

office@chinadatacenter.net