



**China Data Institute**

chinadatacenter.net  
China-data-online.org

# Introduction to China Data Online and China Data Lab

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# Most Challenges for China Data Studies

- ❑ **Availability**
- ❑ **Accessibility**
- ❑ **Comparability**

# Topics

- **Principles** for China database design
- **Data Sources** for China studies
- **Methodologies** for China data processing
- **Functions** for spatio-temporal analysis
- **China Data Lab**

# Principals for Database Design

## Principals:

- **Comprehensive** data coverage
- **Comparable** spatio-temporal data structure
- **Compatible** multi-source data structure
- **Consistent** multi-scale data structure

## Primary Factors:

1. Space (boundary)
2. Time
3. Scale (Sub-systems)



# The Principles of China Data Design

- Authority**
- Completion**
- Uniqueness**

# China Data Sources



- **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

# Population Census Data with GIS Maps

> 2,000 demographic variables in population Census

## Geographical Levels:

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

## Census data variables:

- General Information
- Nationalities
- Age Structure
- Household Structure
- Education
- Fertility
- Deaths
- Marriage
- Migration
- Housing Status
- Industries and Occupations

# Economic Census Data

> Cover about 900 economic sectors with more than 7 million business units

## Industries

- 852 industries

## Products

- 3 primary products

## Ownerships

- 23 different industries

## Revenue

- 15 revenue ranges

## Employment

- 10 employment ranges

## Employment

1

1-19

20-49

50-99

100-499

500-999

1000-4999

5000-29999

30000-49999

50000+

## Revenue

(in 10,000 Yuan)

0-30

30---50

50---100

100--300

300--500

500--1000

1000-3000

3000-5000

5000-10000

10000-30000

30000-50000

50000-100000

100000-150000

150000-200000

200000 and over



# Business Unit Classification

## 2004, 2008 & 2013 Business and Private Units 单位数与个体经营户数

	2004		2008		2013	
	(in 10,000)	(%)	(in 10,000)	(%)	(in 10,000)	(%)
<b>1. Legal Unit 法人单位</b>	<b>516.9</b>	<b>100</b>	<b>709.9</b>	<b>100</b>	<b>1085.7</b>	<b>100</b>
Enterprise 企业法人	325	62.9	495.9	69.9	820.8	75.6
Government 机关、事业法人	90	17.4	95.9	13.5	103.7	9.6
Non-profit org 社会团体法人	101.9	19.7	118.1	16.6	161.1	14.8
<b>2. Economic Unit 产业活动单位</b>	<b>682.4</b>	<b>100</b>	<b>886.4</b>	<b>100</b>	<b>1303.5</b>	<b>100</b>
Manufacture 第二产业	167.5	24.6	230	25.9	287.5	22.1
Service 第三产业	514.9	75.4	656.4	74.1	1015.9	77.9
<b>3. Private 个体经营户</b>	<b>3921.6</b>	<b>100</b>	<b>2873.7</b>	<b>100</b>	<b>3279.1</b>	<b>100</b>
Manufacture 第二产业	588.7	15	253.8	8.8	188.3	5.7
Service 第三产业	3332.9	85	2619.9	91.2	3090.8	94.3

# Industrial Classification (18 Categories)

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

# Industrial Classification: (2 digits)

<b>7. 信息传输、计算机服务和软件业</b>	<b>Information Transmission, Computer Services and Software</b>
电信和其他信息传输服务业	Telecommunications and Other Information Transfer Services
计算机服务业	Computer Services
软件业	Software Industry
<b>8. 批发和零售业</b>	<b>Wholesale and Retail Trade</b>
批发业	Wholesale
零售业	Retail Trade
<b>9. 住宿和餐饮业</b>	<b>Hotel and Restaurants</b>
住宿业	Hotel
餐饮业	Catering Services
<b>10. 金融业</b>	<b>Financial Intermediation</b>
银行业	Banking
证券业	Securities
保险业	Insurance
其他金融活动	Other Financial Activities
<b>11. 房地产业</b>	<b>Real Estate</b>
租赁和商务服务业	Leasing and Business Services
租赁业	Leasing Services
商务服务业	Business Services
<b>12. 科学研究、技术服务和地质勘查业</b>	<b>Scientific Research, Technical Service and Geologic Prospecting</b>
研究与试验发展	Research and Experimental Development
专业技术服务业	Professional Skill Services
科技交流和推广服务业	Services of Scientific and Technological Exchange and Popularization
地质勘查业	Geological Prospecting
<b>13. 水利、环境和公共设施管理业</b>	<b>Management of Water Conservancy, Environ. and Public Facilities</b>
水利管理业	Management of Water Conservancy
环境管理业	Management of Environment
公共设施管理业	Management of Public Facilities
<b>14. 居民服务和其他服务业</b>	<b>Services to Households and Other Services</b>
居民服务业	Resident Services
其他服务业	Other Services

# Industrial Classification: (4 digits)

## 7. Information Transmission, Computer Services and Software 信息传输、计算机服务和软件业

7.1. 电信和其他信息传输服务业 Telecommunications and Other Information Transfer Services	7.1.1 固定电信服务	Fixed telecommunications services
	7.1.2 移动通信服务	Mobile telecommunications services
	7.1.3 其他电信服务	Other telecommunication services
	7.1.4 互联网信息服务	Internet Information Services
	7.1.5 有线广播电视传输服务	Cable television transmission services
	7.1.6 无线广播电视传输服务	Radio and TV transmission services
	7.1.7 卫星传输服务	Satellite transmission services
7.2. 计算机服务业 Computer Services	7.2.1 计算机系统服务	Computer system services
	7.2.2 数据处理	Data processing
	7.2.3 计算机维修	Computer maintenance
	7.2.4 其他计算机服务	Other computer services
7.3. 软件业 Software Industry	7.3.1 基础软件服务	Based software services
	7.3.2 应用软件服务	Application software services
	7.3.3 其他软件服务	Other software services

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

## Statistical Database:

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

## Census Database:

- Population Census 1982
- Population Census 1990
- Population Survey 1995, 2005
- Province Census 2000
- County Census 2000
- Economic Census 2004

The screenshot displays the homepage of China Data Online. The browser address bar shows the URL <https://www.china-data-online.com/>. The page features a dark blue header with the logo for ALL CHINA DATA CENTER (ACMR) and the text 'China Data Online 中国数据在线'. Below the header is a navigation menu with links for Home, Data Products, Database Demo, Dictionary, Support, Contact, Q&A, Citations, My Account, and Logout.

The main content area is divided into several sections, each highlighted with a red box in the image:

- CHINA SPATIAL DATA**: Includes links for China Geo-Explorer II, China Geo-Explorer I, and China Map Library.
- CHINA STATISTICS**: Includes links for Monthly Statistics, National Statistics, Provincial Statistics, City Statistics, County Statistics, Monthly Industrial Data, Yearly Industrial Data, Statistics on Map, Statistical Datasheets, and Statistical Charts.
- CENSUS DATA**: Includes links for 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%), and Census Data Search.
- FREE CHINA MAPS**: Includes links for 2000 Population Census, Pop & Env (1990-1999), Pop & Env (2000), and Atlas of Industrial Census.
- SAMPLE DATA**: Includes links for Major Indicators, Industrial Surveys, Monthly Report, and Census Data.

On the right side of the page, there is a section titled 'Investment in Fixed Assets for the First Ten Months of 2019'. It features a pie chart showing the distribution of investment across three industries:

Industry	Percentage
Primary industry	2.23%
Secondary industry	29.76%
Tertiary industry	68.02%

Below the pie chart is a section titled 'Latest China Statistical News' with several news items, including 'Industrial Production Operation in October 2019 (11/15/2019)', 'Total Retail Sales of Consumer Goods in October 2019 (11/15/2019)', 'Investment in Fixed Assets for the First Ten Months of 2019 (11/15/2019)', 'Producer Prices for the Industrial Sector for October 2019 (11/11/2019)', 'Consumer Prices for October 2019 (11/11/2019)', 'The Gross Imports and Exports Amounts 25.63Trillion Yuan in the First Ten Months... (11/8/2019)', and 'Industrial Production Operation in September 2019 (10/21/2019)'.

# China Geo-Explorer

An Integration of Spatial Data and Analysis for China Studies

## Statistics

The screenshot shows the 'ALL CHINA DATA CENTER' website. It features a navigation menu with categories like 'Home', 'About Us', 'Data Products', 'Reports', and 'Contact Us'. The main content area displays a map of China with various data points and a list of statistical reports. A 'DemographicsNow' logo is visible in the bottom right corner of the screenshot.

## Census

Three circular graphics are shown, each representing a different type of census data. The top-left circle is titled '中国五次县级人口普查数据' (Historical County-Level Population Census Data) and includes the text 'ALL CHINA MARKETING RESEARCH CO., LTD.' and the years '1963, 1964, 1982, 1990, 2000'. The top-right circle is titled '中国2000县级人口普查资料' (China 2000 County-Level Population Census Data) and also includes 'ALL CHINA MARKETING RESEARCH CO., LTD.'. The bottom circle shows a map of China with various provinces and cities labeled, including '四川省' (Sichuan Province), '重庆市' (Chongqing), '湖北省' (Hubei Province), and '江西省' (Jiangxi Province).

## GIS

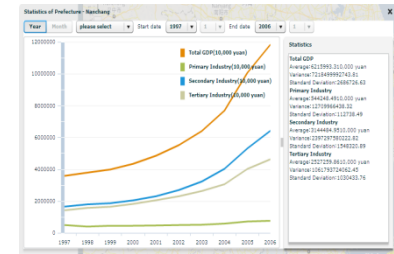
## Data

The screenshot shows the 'Spatial Data Center & China Data Center' website. The header includes the University of Michigan logo and the text 'Welcome Guest, your IP is: 98.224.227.102, please click the links below to enter.' The main content area features two main sections: 'China Geo-Explorer II' and 'US Geo-Explorer'. The 'China Geo-Explorer II' section states: 'China Geo-Explorer (CGE) fully integrates different data sources from government statistics, population census and economics census of China at different levels (province, city, county, township and ZIP code) into a spatial system with more than 6,000 comparable variables for easy access.' The 'US Geo-Explorer' section states: 'US Geo-Explorer (UGE) fully integrates the population census and business data of the U.S. from different years at different levels (state, metropolitan, county, CCD, place, tract and block) into a spatial system with more than 40,000 comparable variables for easy access.' Both sections include links for 'Online Subscription', 'User's Guide', 'Intro Slides', 'Intro Video', and 'Free Version'. At the bottom, contact information is provided: 'Spatial Data Center, 330 Packard Rd., Ann Arbor, MI 48106-1248, T: (734)647-9610-F: (734)763-9335; Email: spatadata@umich.edu'.

## Output

The screenshot shows the 'China Geo-Explorer II' interface. It features a header with the title 'China Geo-Explorer II' and a navigation menu. The main content area displays three maps of China, each showing different data points. Below the maps, there is a section titled 'US Geo-Explorer' which provides a detailed description of the service: 'The US Geo-Explorer fully integrates the US Census and business data from different years at different levels (state, metropolitan, county, CCD, tract and block) into a web based spatial system with more than 40,000 comparable variables for easy access. The data sources include Applied Geographic Solutions, Inc., Intermap, Inc., and US Bureau of Census. Unlike many other GIS systems, US Geo-Explorer is compatible with most web browsers and can be learned by everyone without GIS skills.' The features of the online service are listed: 'Efficient data integration for spatial and non-spatial data (custom rsdri, administrative units, spatial boundaries)', 'Quick and accurate location analysis and spatial assessment', 'Identify spatial patterns and trends', 'Generate time-saving, easy-to-use, and customized reports', and 'Dynamic charts, tables and maps'. The supported data formats are also listed: 'Export to HTML, PDF, Excel, Word, or GIS Shape files'. The primary GIS data sources are listed: 'US Population Census Data with GIS Shape (1970-2010)', 'US Business Patterns with GIS Shape (1989-)', 'US Business Reports with GIS Shape (1992-)', and 'US Establishment Data with GIS Shape (2001)'.

## Charts



## Tables

The screenshot shows a 'Demographic Summary Report' table and a corresponding bar chart. The table has columns for 'Total', 'Male', and 'Female'. The bar chart shows the distribution of the population by age group: '0-14 years', '15-64 years', and '65+ years'. The report includes the following data:

Category	Total	Male	Female
Total population in country/tract	711,848.30	370,083.40	341,764.90
Total population 0-14 aged in country/tract	140,964.30	75,962.40	65,001.90
Total population 15-64 aged in country/tract	417,944.50	216,182.30	201,762.20
Total population over 65 aged in country/tract	48,939.50	25,937.70	22,991.80

## Maps

The screenshot shows a GIS map interface. It features a map of China with various data layers overlaid. The interface includes a navigation menu, a search bar, and a legend. The map shows different regions and data points, with a red dot indicating a specific location. The interface is designed for interactive data exploration and analysis.

# Unique Features of China Spatial Data

- ❑ The mostly complete collection in China's history
- ❑ Detailed data for nation, province, city, county, district and township
- ❑ Complete coverage for all provinces, cities, counties, and townships
- ❑ All data are comparable across time and region with the adjusted base map (2000, 2010)
- ❑ Most data in CGE are unique and not available in official publications
  - Population census data were compiled from the source data directly
  - Economic census data were compiled from the establishment data aggregated at province, city, county and ZIP level
  - All data have been integrated with GIS maps

# Primary Functions

## ❑ Data Selection

- By administrative units (province, city, county, township)
- By groups
- By location (X&Y) and spatial range (km or miles)
- By time-series statistics (province, city and county)
- By establishments (province, city, county and ZIP)

## ❑ Reporting

- Summary report
- Comparison report
- Original data report

## ❑ Export

- Data tables (Excel)
- Reports (Excel, Word, PDF)
- GIS maps (Shape)
- Maps (PDF)

## ❑ Map Library with Metadata

- Pre-defined maps
- Easy links between maps of different spatial levels
- Easy links to related industries





# Administrative Units

Administrative Unit X&Y Location Chart Time Series Establishment Theme Map GIS Map Export China-US Comparison Map Library Welcome, UM Asia Library! 中文 English Log out

Base Year:  2000  2010  2000-2010  
 Group:  Single group  Multi-groups  
 Level:  Province  City  County  Town  Any area

Region Customized Report Standard Report Upload your data  
 HTML PDF CSV Excel RTF ODT

6 index selected  
 Report type  Summary Report  Compare Report  Original Report  
 Find:

- Census 2000
- Economic Census 2008
- Economic Census 2004
- Basic Unit Census 2001
- Industry Census 1995
- Land Use
- Nighttime lights

Operations Level: Province

Theme Layer List  
 Basic Layer List  
 Boundary Layer List

temp\_report (43).xls [Compatibility Mode] - Excel

	Anhui	Beijing	Chongqing	Fujian	Gansu	Guangdong	Guangxi
2000 Total Population	58,999,948	13,569,194	30,512,763	34,097,947	25,124,282	85,225,007	43,854,538
2000 Urban Population	15,766,389	10,522,464	10,095,512	14,306,812	6,018,417	47,432,392	12,350,296
2000 Rural Population	43,233,559	3,046,730	20,417,251	19,791,135	19,105,865	37,792,615	31,504,242
2008 Number of All Units	204,959	267,757	139,006	232,466	94,260	617,717	154,443
2004 Number of All Units	230,706	262,847	137,536	226,827	135,138	567,862	194,852
2001 Total Industrial Units	177,879	245,599	89,639	155,771	82,817	400,227	121,763

report name

# Location Analysis

Location Customized Report Standard Report

Spatial Range 1,3,5 Units miles kilometers

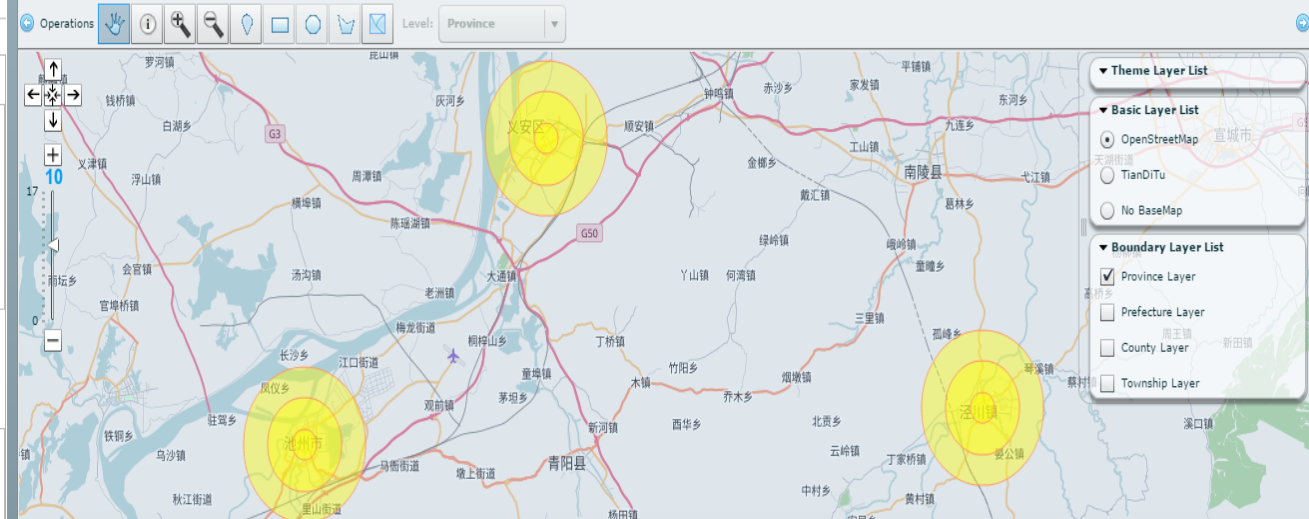
Label coord

1 Lat:30.658 Lon:117.461  
2 Lat:30.692 Lon:118.413  
3 Lat:30.942 Lon:117.813

Lat 26.68  
Lon 115.89

Add Edit Delete clear Upload

Select a layer:  
None Province City County Town Zip point



- Census 2000
- Census 2010
- Economic Census 2008
- Economic Census 2004
- Basic Unit Census 2001
- Industry Census 1995
- Historic Census
- Land Use
- Nighttime lights

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Simon Bao

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW

Normal Page Break Page Custom Gridlines Headings Workbook Views Show Zoom 100% Zoom to Selection New Arrange Freeze Split View Side by Side Synchronous Scrolling Switch Windows Macros

Date: 10/05/2017

Selection: (3 places selected) 1(lat: 30.66 lon:117.48), 2(lat: 30.69 lon:118.41), 3(lat: 30.94 lon:117.81)

	1(1mile)		1(3mile)		1(5mile)		2(1mile)		2(3mile)		2(5mile)		3(1mile)		3(3mile)		3(5mile)	
	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
<b>Total Households</b>	10,138	100.0 %	28,607	100.0 %	36,184	100.0 %	3,028	100.0 %	15,875	100.0 %	26,695	100.0 %	7,858	100.0 %	78,632	100.0 %	108,056	100.0 %
<b>Family Households</b>	9,567	94.4 %	27,338	95.6 %	34,895	96.4 %	2,965	97.9 %	15,577	98.1 %	26,278	98.4 %	7,599	96.7 %	75,882	96.5 %	104,592	96.8 %
<b>Collective Households</b>	571	5.6 %	1,269	4.4 %	1,289	3.6 %	63	2.1 %	298	1.9 %	416	1.6 %	259	3.3 %	2,749	3.5 %	3,464	3.2 %
<b>Total Population</b>	32,165	100.0 %	91,631	100.0 %	116,927	100.0 %	9,032	100.0 %	47,822	100.0 %	81,098	100.0 %	23,920	100.0 %	240,247	100.0 %	331,988	100.0 %
<b>Agricultural Population</b>	7,976	24.8 %	37,043	40.4 %	61,278	52.4 %	3,740	41.4 %	24,657	51.6 %	48,581	59.9 %	4,879	20.4 %	44,347	18.5 %	93,164	28.1 %
<b>Non-Agricultural Population</b>	24,188	75.2 %	54,587	59.6 %	55,648	47.6 %	5,291	58.6 %	23,164	48.4 %	32,516	40.1 %	19,041	79.6 %	195,900	81.5 %	238,823	71.9 %
<b>Population in Family Households</b>	28,410	87.8 %	83,413	90.6 %	108,732	92.5 %	8,693	95.2 %	46,174	95.7 %	78,859	96.5 %	22,601	94.2 %	227,616	94.3 %	317,608	95.2 %

# Charts Analysis (Structural Analysis)

Yearly Statistics Economic Census

Statistical Chart

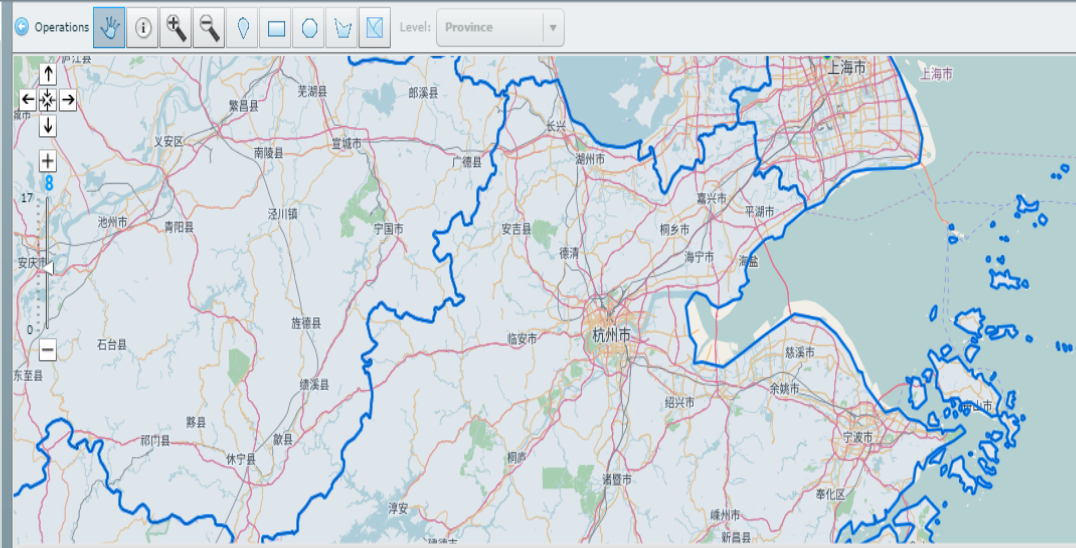
Nation  Province  City

Province Statistics

Nation  Province  City

Region

- FORESTRY
  - Index
  - Region
- ANIMAL HUSBANDRY
  - Index
  - Region
- FISHERY
  - Index
  - Region
- FARMING, FORESTRY, ANIMAL HUSBANDRY AND FISHERY SERVICES
  - Index
  - Region
- MINING AND WASHING OF COAL
  - Index
  - Region
- EXTRACTION OF PETROLEUM AND NATURAL GAS
  - Index
  - Region
- MINING AND PROCESSING OF FERROUS METAL ORES
  - Index
  - Region
- MINING AND PROCESSING OF NON-FERROUS METAL ORES
  - Index
  - Region
- MINING AND PROCESSING OF NONMETAL ORES
  - Index
  - Region



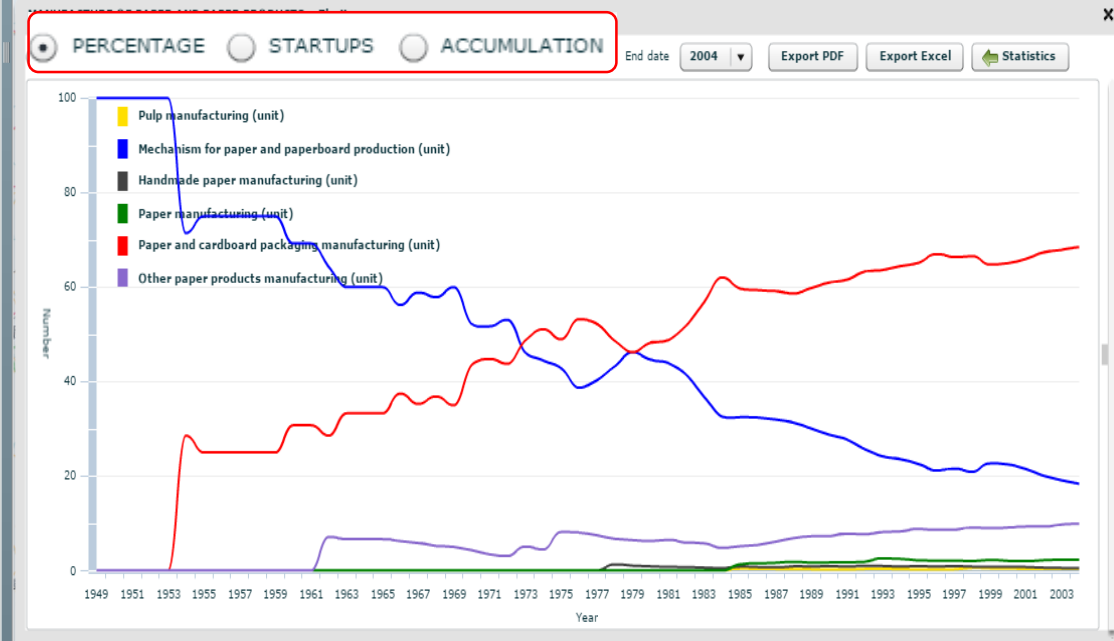
Theme Layer List

Basic Layer List

- OpenStreetMap
- TianDiTu
- No BaseMap

Boundary Layer List

- Province Layer
- Prefecture Layer
- County Layer
- Township Layer



# Time Series Analysis

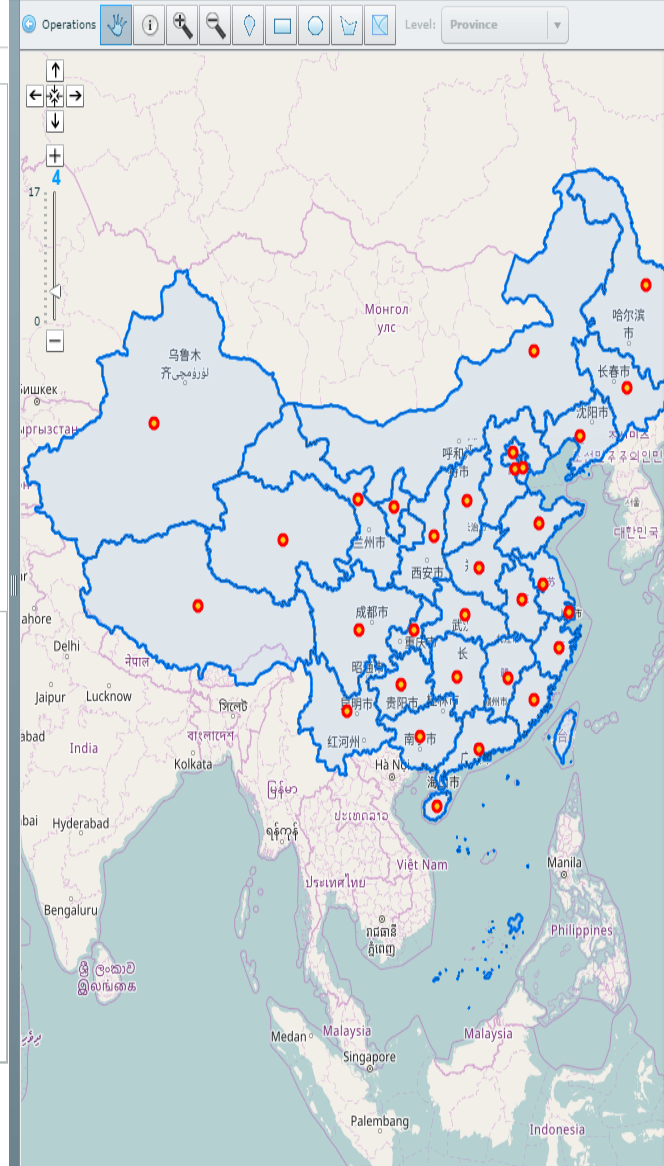
HTML PDF CSV Excel RTF ODT

Region Year Customized Report

Find:

GROSS DOMESTIC PRODUCTS  
 Gross Domestic Product(100 million yuan)  
 Primary Industry(100 million yuan)  
 Secondary Industry(100 million yuan)  
 Industry(100 million yuan)  
 Construction(100 million yuan)  
 Tertiary Industry(100 million yuan)  
 Transportation Post and Telecommunications(100 million yuan)  
 Wholesale Retail and Catering Trade(100 million yuan)  
 Per-Capita GDP(yuan/person)  
 INDICES OF GROSS DOMESTIC PRODUCTS (preceding year=100)  
 GROSS DOMESTIC PRODUCTS BY EXPENDITURE APPROACH  
 POPULATION  
 EMPLOYMENT, STAFF AND WORKERS  
 TOTAL INVESTMENT IN FIXED ASSETS

p1\_Gross Domestic Product(100 million yuan)  
 p2\_Primary Industry(100 million yuan)  
 p3\_Secondary Industry(100 million yuan)



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FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW Simon Bao

	name	year	Gross Domestic Product(100 million yuan)	Primary Industry(100 million yuan)
8				
9	1 Beijing	2008	10,488.0	112.8
11	2 Beijing	2007	9,353.3	101.3
13	3 Beijing	2009	12,153.0	118.3
15	4 Beijing	2010	14,113.6	124.4
17	5 Beijing	2011	16,251.9	136.3
19	6 Tianjin	2009	7,521.9	128.8
21	7 Tianjin	2010	9,224.5	145.6
23	8 Tianjin	2007	5,050.4	110.2
25	9 Tianjin	2008	6,354.4	122.6
27	10 Tianjin	2011	11,307.3	159.7
29	11 Hebei	2010	20,394.3	2,562.8
31	12 Hebei	2011	24,515.8	2,905.7
33	13 Hebei	2007	13,709.5	1,804.7
35	14 Hebei	2008	16,188.6	2,034.6
37	15 Hebei	2009	17,235.5	2,207.3
39	16 Shanxi	2008	6,938.7	302.5
41	17 Shanxi	2007	5,733.4	269.7
43	18 Shanxi	2009	7,358.3	477.6
45	19 Shanxi	2010	9,200.9	554.5
47	20 Shanxi	2011	11,237.5	641.4
49	21 Neimenggu	2010	11,672.0	1,095.3
51	22 Neimenggu	2011	14,359.9	1,306.3
53	23 Neimenggu	2007	6,091.1	762.1
55	24 Neimenggu	2008	7,761.8	907.0
57	25 Neimenggu	2009	9,740.2	929.6
59	26 Liaoning	2007	11,023.5	1,133.4
61	27 Liaoning	2008	13,461.6	1,302.0

report name

# Establishment

Selection | Report Table Export Plot of starting year

Back To Search Real Estate

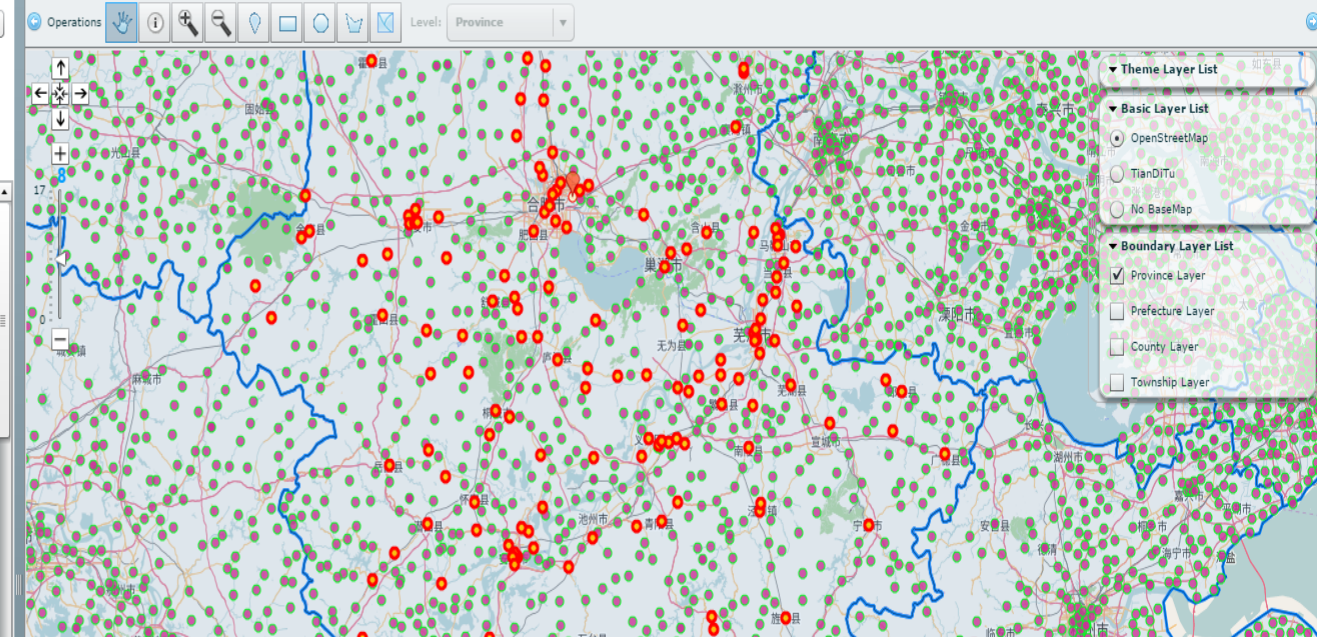
Number of Establishments: over 500

Keywords: Anhui

1 - 50 << < [1] [2] [3] [4] > >>

<b>Anhui Di An Real Estate Development Company ( Headquarter )</b>	Address: Anhui Hefei	ZIP: 230011
<b>Anhui Jinshui Real Estate Development Co., Ltd. ( Headquarter )</b>	Address: Anhui Hefei	ZIP: 230022
<b>Hefei Gas House Development Management Company ( Headquarter )</b>	Address: Anhui Hefei	ZIP: 230041
<b>Hefei Jia Le Zhi Ye Co., Ltd. ( Headquarter )</b>	Address: Anhui Hefei	ZIP: 230001
<b>Anhui Zhong Medical College Labor Service Company ( Headquarter )</b>	Address: Anhui Hefei	ZIP: 230031
<b>Hefei An Mei Real Estate Development Co., Ltd. ( Headquarter )</b>	Address: Anhui Hefei	ZIP: 230011
<b>Hefei Bao He Qu Real Estate Development Company ( Headquarter )</b>	Address: Anhui Hefei	ZIP: 230041
<b>Wuhu Shi You Estate Development Co., Ltd. (Headquarter )</b>	Address: Anhui Wuhu	ZIP: 241000
<b>Jin Xing Flannelette Chang Headquarter</b>	Address: Anhui Wuhu	ZIP: 241000
<b>Wuhu Xiang Yuan Industrial Group (Headquarter )</b>	Address: Anhui Wuhu	ZIP: 241000
<b>Wuhu Zhong Fang Estate Company (Headquarter )</b>	Address: Anhui Wuhu	ZIP: 241000
<b>Zhong Fang Group Wuhu Real Estate Development Company (Headquarter )</b>	Address: Anhui Wuhu	ZIP: 241000
<b>Wuhu Yang Zi Multiple Service Dept. ( Headquarter )</b>	Address: Anhui Wuhu	ZIP: 241000
<b>Wuhu Wan Nan Hotel Headquarter</b>		

1 - 50 << < [1] [2] [3] [4] > >>



New establishments
  Cumulative establishments
 Start year 1950 End year 2004
PDF EXCEL

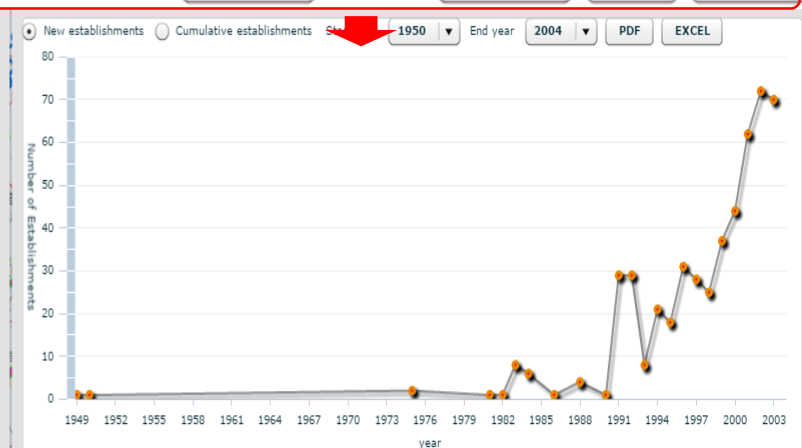
name: Anhui Di An Real Estate Development Company ( Headquarter )  
 Responsible person: 曾三兰  
 Type: Real Estate Multiple Development  
 ZIP: 230011  
 Address: Anhui Hefei Yao Hai Qu Chang Jiangdong Lu 115Hao  
 Telephone: 0551-4415040  
 Ownership: State-Own

**Starting year: 1993**

Revenue: 0-30  
Employee Count: 1-19

Google Baidu Wanfang Data

Go to Location Selection Close



# Panel Data for Spatial Modeling

Browser tabs: M Inbox (17,603) - sbao@ x | Geo-Explorer x | chinageoexplorer.org/c x | chinageoexplorer.org/r x | 141.211.24.149/SIServe x

Address bar: 141.211.24.149/SIServerResearch//tempReport/597336bd-e3a1-4a8e-8835-65619db5d2e9/temp\_report.html

## Time-series Report

Date: 19/08/2018  
 Selection: (4 selected) zhejiang , tianjin , yunnan , xinjiang

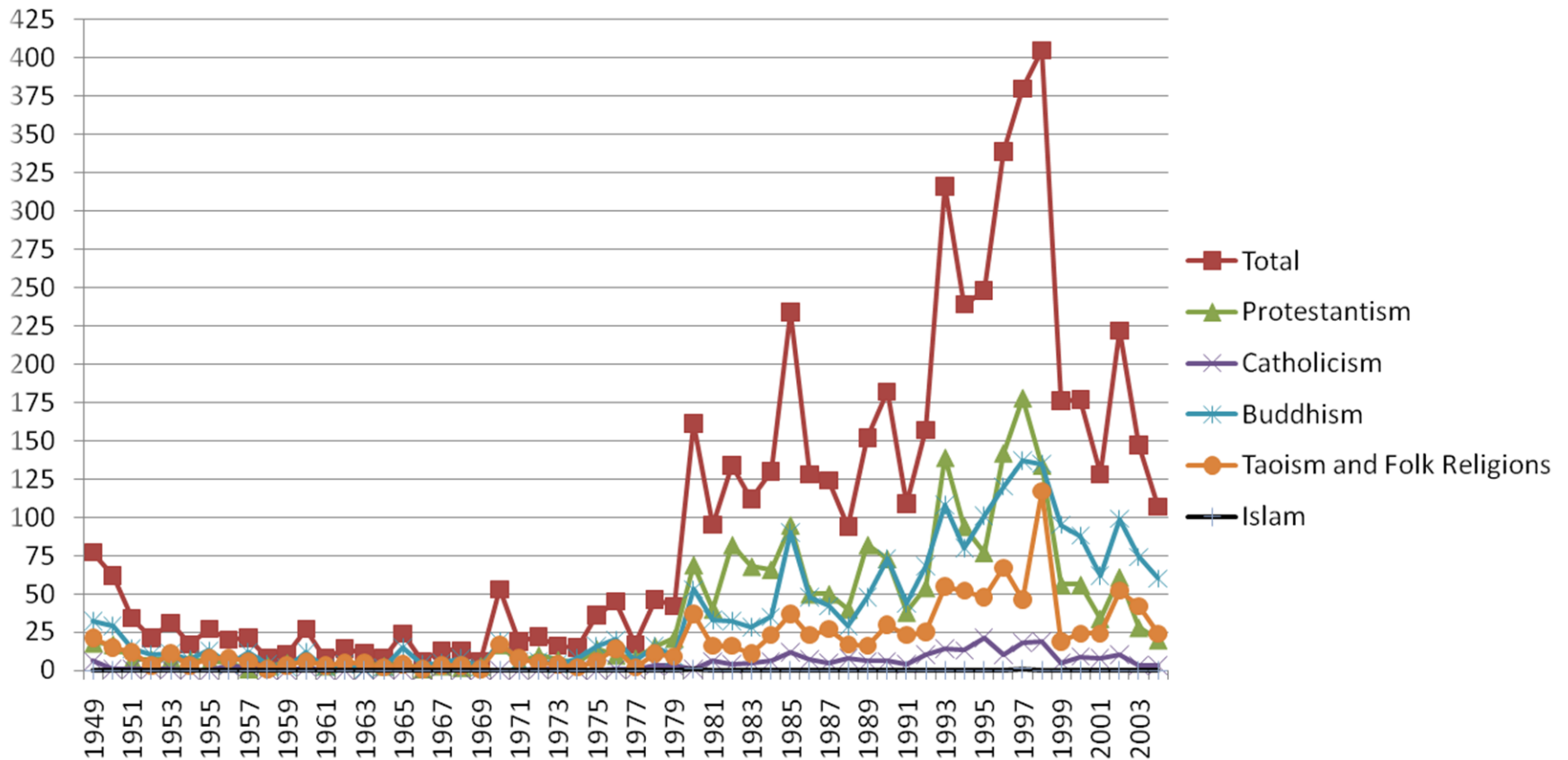
### Original Variables

### Spatially Weighted Variables

	name	year	Gross Domestic	Primary Industry	Secondary Industry	Gross Domestic	Primary Industry	Secondary Industry
1	tianjin	2009	7,521.9	128.8	3,987.8	15,159.8	1,324.7	7,640.2
2	tianjin	2010	9,224.5	145.6	4,840.2	18,081.4	1,526.9	9,226.2
3	tianjin	2006	4,344.3	118.2	2,488.3	9,570.7	918.0	4,939.7
4	tianjin	2007	5,050.4	110.2	2,892.5	11,455.6	1,050.3	5,902.5
5	tianjin	2008	6,354.4	122.6	3,821.1	13,626.3	1,241.1	7,117.9
6	tianjin	2011	11,307.3	159.7	5,928.3	21,441.7	1,762.1	10,970.9
7	zhejiang	2010	27,722.3	1,360.6	14,297.9	17,809.7	1,551.2	8,940.6
8	zhejiang	2011	32,318.8	1,583.0	16,555.6	21,163.0	1,798.8	10,653.4
9	zhejiang	2006	15,742.5	925.1	8,509.6	9,421.9	946.0	4,764.4
10	zhejiang	2007	18,780.4	986.0	10,148.5	11,259.4	1,083.4	5,669.9
11	zhejiang	2008	21,486.9	1,095.4	11,580.3	13,348.6	1,287.2	6,812.6
12	zhejiang	2009	22,990.3	1,163.1	11,908.5	14,943.3	1,347.8	7,377.5
13	yunnan	2010	7,224.2	1,108.4	3,223.5	12,753.8	1,372.5	6,304.8
14	yunnan	2011	8,893.1	1,411.0	3,780.3	15,398.3	1,639.1	7,734.8
15	yunnan	2006	3,981.3	749.8	1,712.6	6,481.9	835.0	3,042.2
16	yunnan	2007	4,741.3	837.4	2,051.1	7,801.2	985.9	3,683.3
17	yunnan	2008	5,700.1	1,020.9	2,451.1	9,276.7	1,187.1	4,471.8
18	yunnan	2009	6,169.8	1,067.6	2,582.5	10,583.4	1,190.0	5,030.8
19	xinjiang	2008	4,203.4	691.1	2,086.7	678.7	83.0	322.6
20	xinjiang	2006	3,045.3	527.8	1,459.3	465.3	60.3	205.6
21	xinjiang	2007	3,523.2	628.7	1,647.5	562.9	69.2	258.1
22	xinjiang	2009	4,277.1	759.7	1,929.6	761.3	85.6	356.0
23	xinjiang	2010	5,437.5	1,078.6	2,592.2	929.0	101.8	454.3
24	xinjiang	2011	6,610.1	1,139.0	3,225.9	1,138.1	114.8	592.0

# Identification of Possible Policy Impacts

## Annual Increment of Religious Organizations in Zhejiang (1949-2004)





# China Data Lab



Participated by

China Data Institute 中国数据研究所 ([chinadatacenter.net](http://chinadatacenter.net))

Center for Geographical Analysis, Harvard University 哈佛大学地理分析中心

All China Marketing Research, Ltd. 华通人信息技术有限公司

China Consortium for Finance and Economics Education 中国财经教育资源共享联盟 ([knowledgeatshare.cn](http://knowledgeatshare.cn))

Business School, East China University of Science and Technology 华东理工大学商学院 ([bs.ecust.edu.cn/bsweb2016en](http://bs.ecust.edu.cn/bsweb2016en))

Geo-computation Center for Social Sciences, Wuhan University 武汉大学社会地理计算联合中心([www.lmars.whu.edu.cn/gcss/index.php/en](http://www.lmars.whu.edu.cn/gcss/index.php/en))

# Challenges for Data Research and Teaching

## ○ **Data Sharing**

- Licensed data
- Restricted data
- Sensitive data
- Large size data
- Research data generated from different projects

## ○ **Tool Sharing**

- Licensed and free tools
- Integrated environment for tools for data
- Maintenance and updates

## ○ **Research Results Sharing**

- Research (**reproducible, replicable, generalizable**)
- Teaching (students with different interests and skills)
- Decision support (efficient, effective, and expandable)

# Solution: Cloud Based Platform

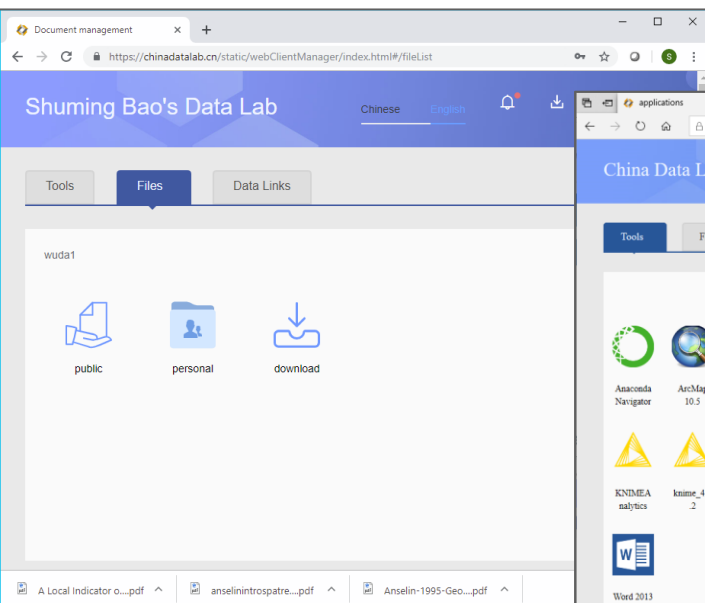
- ❑ **A data center** for China studies based on cloud
- ❑ **A research base** for collaborations on China studies
- ❑ **A development center** for data case studies
- ❑ **A training center** for China studies, including theory, methodology, technology, data and applications for research and teaching

# An Integrated Platform for Research and Teaching

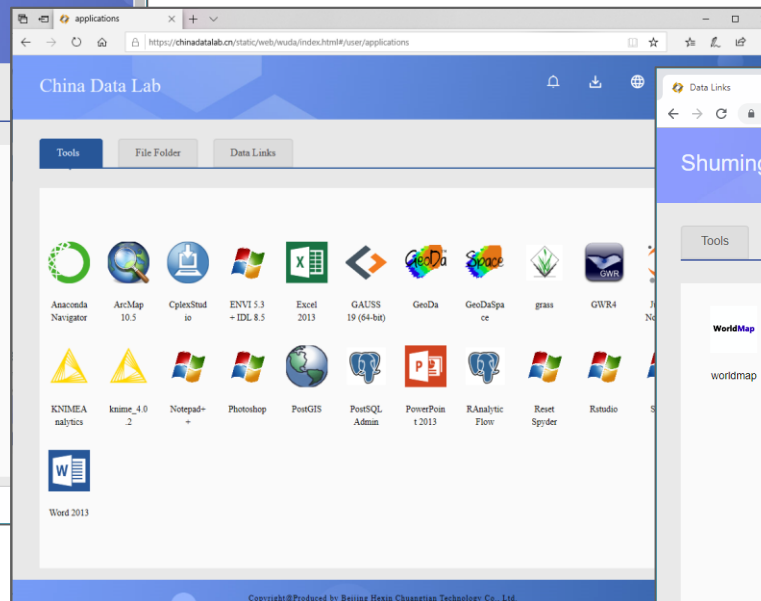
## Main Features:

- ❑ Data available only on the cloud
- ❑ Tools available on the cloud
- ❑ All computation are on the cloud
- ❑ No maintenance required for end users

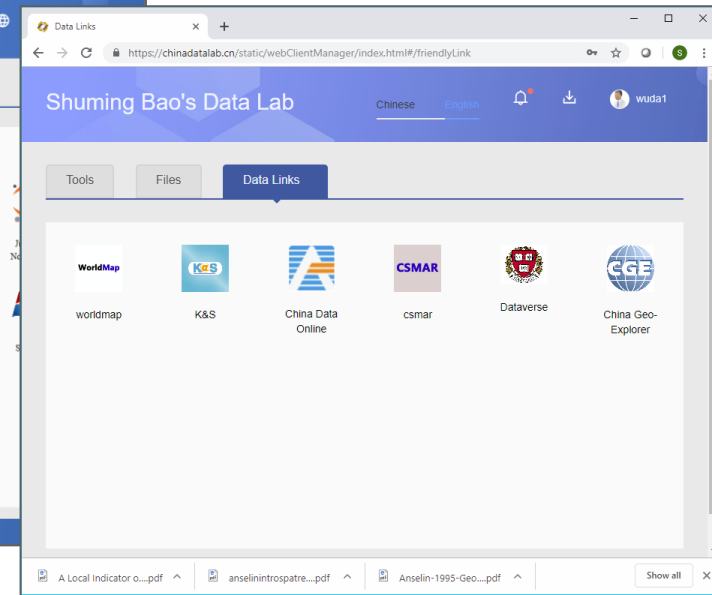
## Data Center



## Tool Center

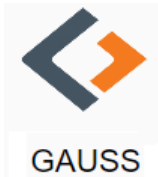


## Sharing Center



# China Data Lab

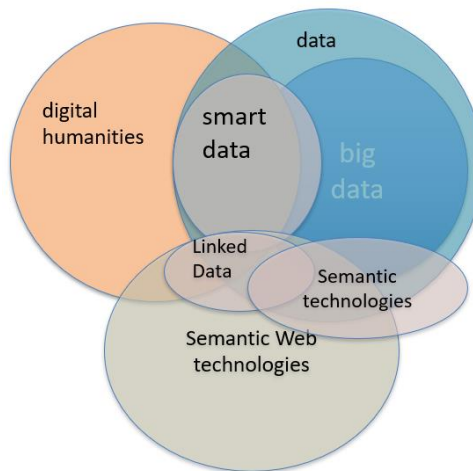
<http://chinadatalab.cn>





# Case Study I: Literature Analysis with KNIME

- **Goal:** develop and demonstrate a network framework of the historical Innovation and Invention at the Liquid Crystal Institute, Kent State University (PI: Marcia Lei Zeng, et al.)



## References:

- Li, H., Zeng, M., Zhang, Y., Ye, X., & Hu, T. (2017). Tackling Innovation Networks with Smart Data: A Case Study of the Liquid Crystal Institute at Kent State University. In DH.
- Zeng, M. L., Zhang, Y., Li, H., & Polyakov, S. (2015). Exploring Smart Data Approaches to the History of Innovation and Invention at Liquid Crystal Institute at Kent State University. In Digital Libraries: Providing Quality Information: The 17th International Conference on Asia-Pacific Digital Libraries, ICADL 2015, Seoul, Korea, December 9-12, 2015. Proceedings (Vol. 9469, p. 346). Springer.

# Objectives

- ❑ Replicate data analysis procedures using previous scientific literature data based on workflow;
- ❑ Expanded data analysis based on publication, patent, and NSF grant data;
- ❑ Applications of workflow for research and teaching related to network analysis based on publication, patent, grant data, as well as other data.



# Data Sources

## ▪ Publication Data

- Title
- Author
- Affiliation
- Key words
- Abstract
- Publication Date
- Journal
- Volume
- Issue
- ...

## ▪ Patent Data

- Title
- Inventor
- Inventor Location
- Publication Date
- Assignee
- Assignee Location
- CPC
- IPC
- USPC
- Abstract
- ...

## ▪ Awarded Grants

- Title
- PI
- Co-PI
- Email Address
- Institution
- NSF Organization
- Start Date
- Expiration Date
- Awarded Amount
- NSF Directorate

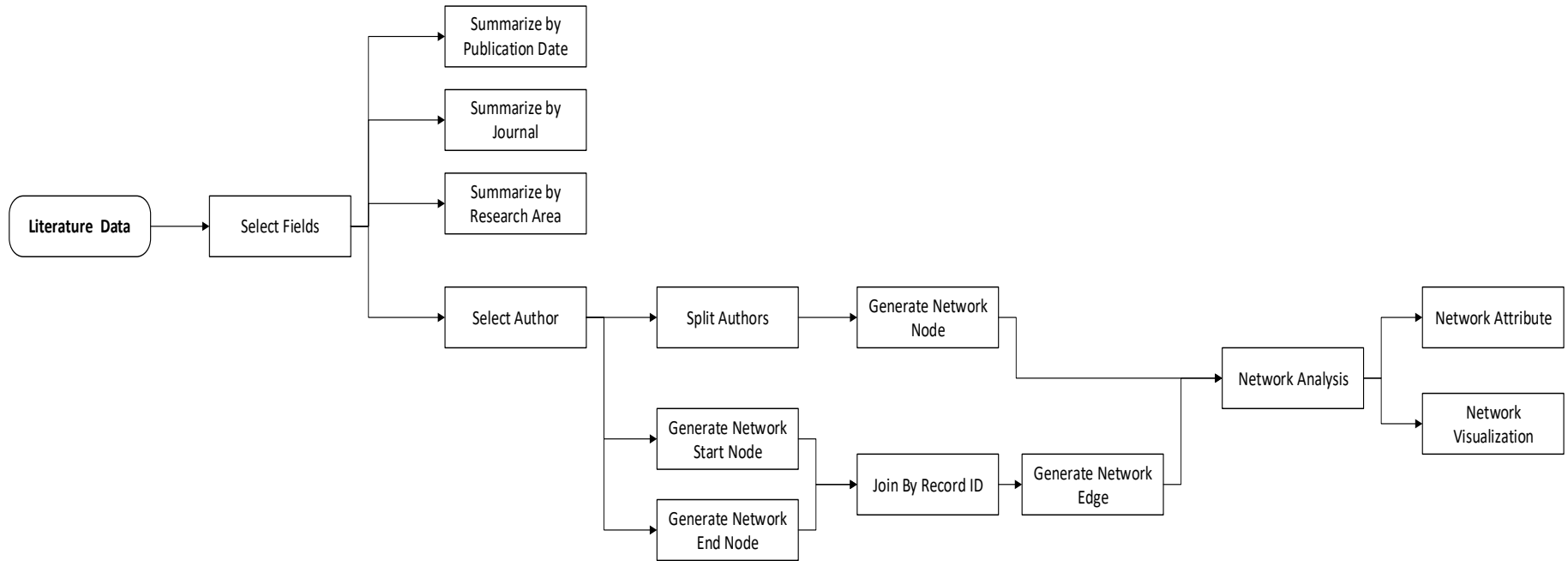
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patent.xls	.xls	ProQuest
grant.xls	.xls	NSF website

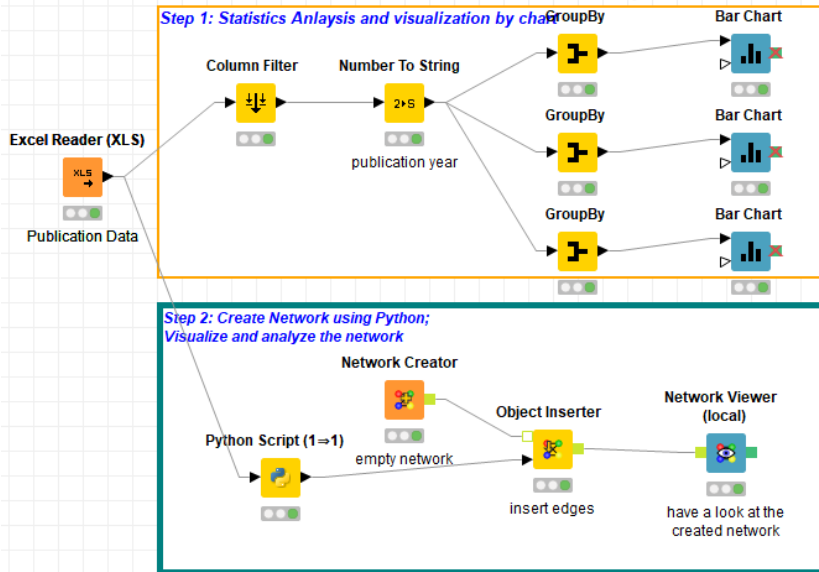
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# The Flowchart for Data Analysis

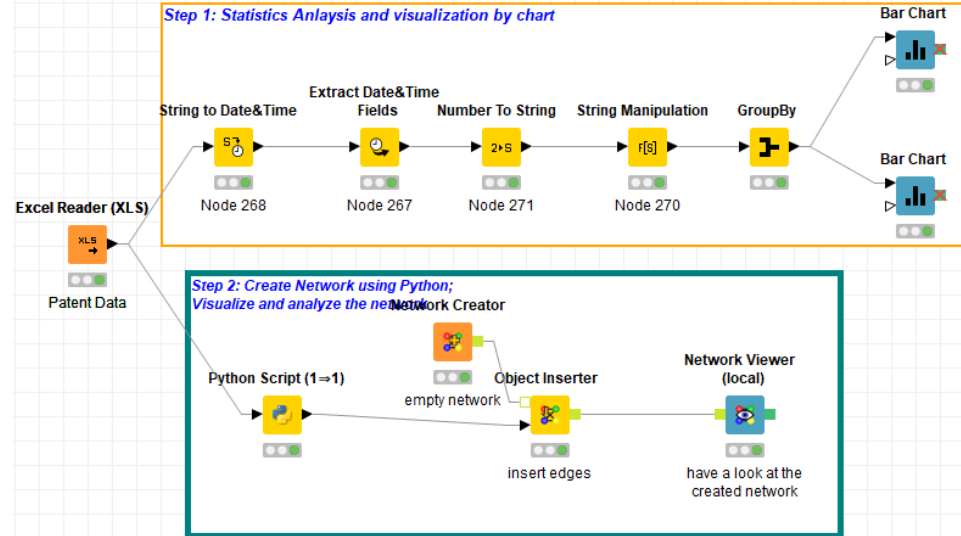


# Knime Workflow for Literature Analysis

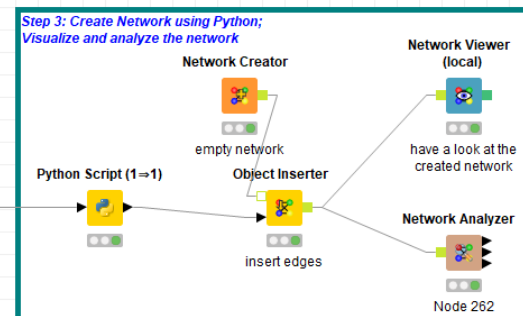
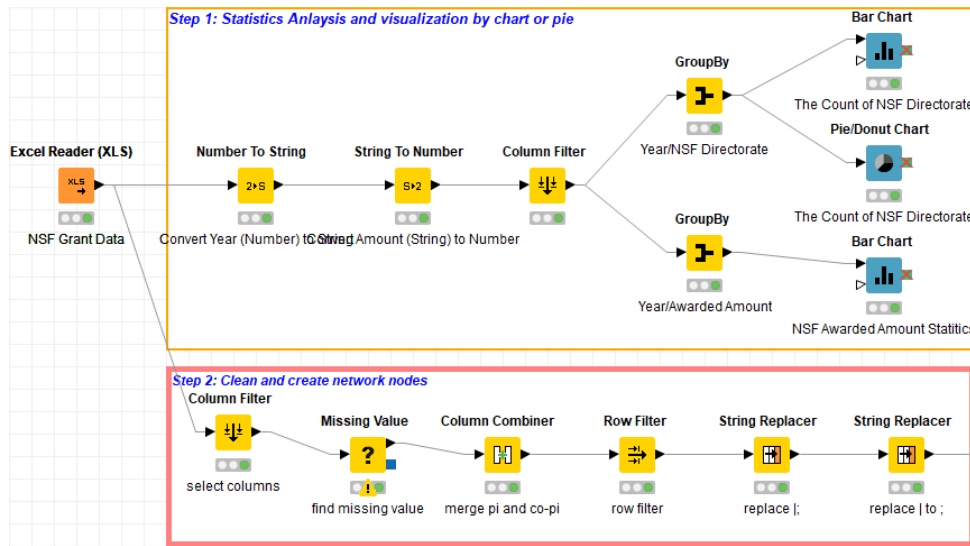
## Publication Analysis



## Patent Analysis

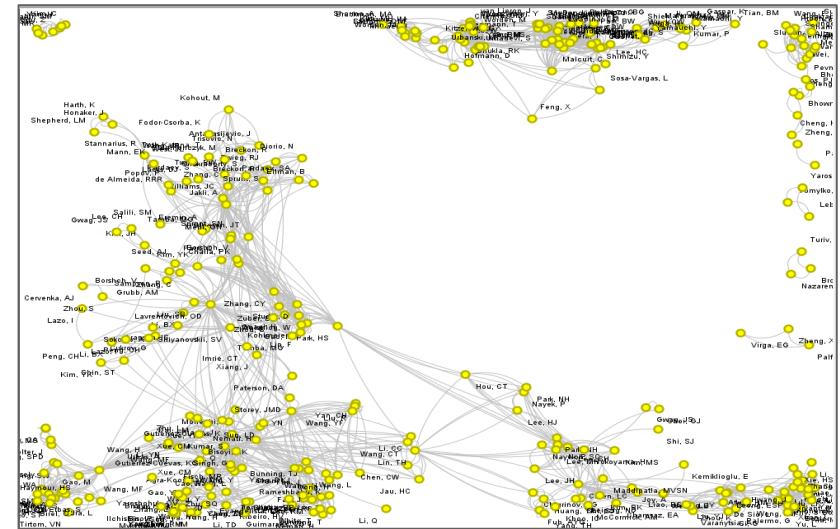
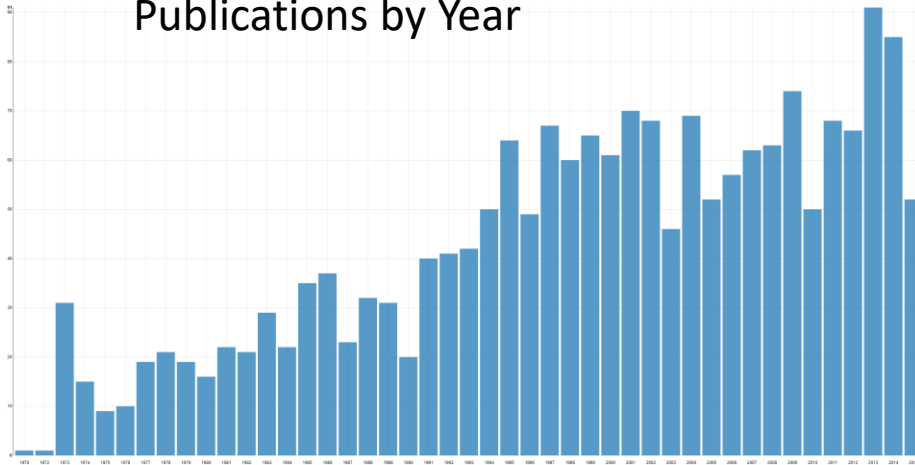


## Grant Analysis



# Results from Publication Analysis

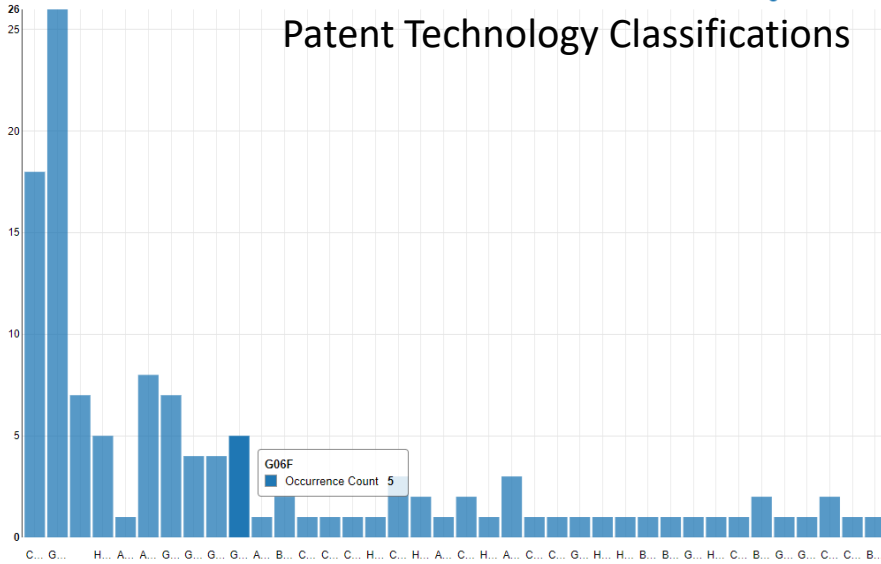
Publications by Year



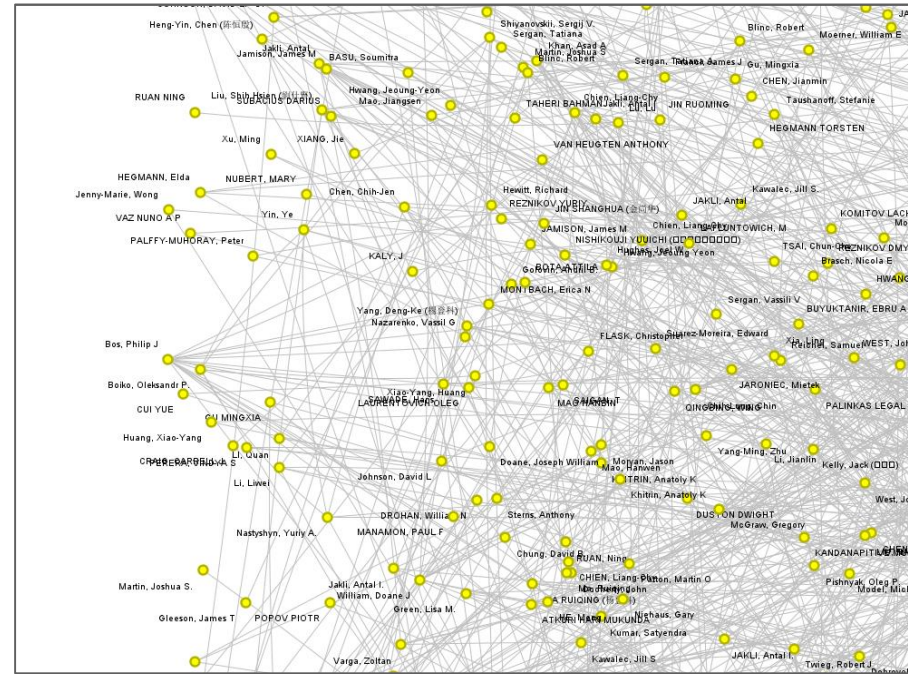
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	Feng, X	5	0.326	5	0.326	5	0.326	5	0.326	5	0.326	0.483	5	1	1	0.069	0.069	0.008									
	Wang, F	5	0.326	5	0.326	5	0.326	5	0.326	5	0.326	0.621	5	1	1	0	0	0.04									
	Sharma, A	22	1.433	22	1.433	22	1.433	22	1.433	22	1.433	0.589	22	1	0.706	0.801	0.801	0.009									
	Yao, WH	8	0.521	8	0.521	8	0.521	8	0.521	8	0.521	0.292	8	1	1	0	0	0.001									
	Wang, MF	5	0.326	5	0.326	5	0.326	5	0.326	5	0.326	0.32	5	1	0.9	0	0	0.001									
	Lu, W	9	0.586	9	0.586	9	0.586	9	0.586	9	0.586	0.49	9	1	1	0.091	0.091	0.007									
	Wang, H	4	0.261	4	0.261	4	0.261	4	0.261	4	0.261	0.32	4	1	1	0	0	0.001									
	Antanasijev...	7	0.456	7	0.456	7	0.456	7	0.456	7	0.456	0.287	7	1	1	0	0	0.001									
	Reich, R	8	0.521	8	0.521	8	0.521	8	0.521	8	0.521	0.923	8	1	1	0	0	0.1									
	Lu, L	8	0.521	8	0.521	8	0.521	8	0.521	8	0.521	0.917	8	1	1	0	0	0.1									
	Lebovka, N	2	0.13	2	0.13	2	0.13	2	0.13	2	0.13	1	2	1	1	0	0	0.5									
	Ma, J	21	1.368	21	1.368	21	1.368	21	1.368	21	1.368	0.258	21	1	0.367	0	0	0.001									
	Malgras, V	7	0.456	7	0.456	7	0.456	7	0.456	7	0.456	0.375	7	1	1	0.01	0.01	0.006									
	Park, HS	23	1.498	23	1.498	23	1.498	23	1.498	23	1.498	0.405	23	1	0.526	0	0	0.002									
	Beltrano, G	18	1.173	18	1.173	18	1.173	18	1.173	18	1.173	0.517	18	1	1	0.776	0.776	0.008									
	Kohlmeier, A	15	0.977	15	0.977	15	0.977	15	0.977	15	0.977	0.363	15	1	1	0	0	0.002									
	Sampson, P	5	0.326	5	0.326	5	0.326	5	0.326	5	0.326	0.327	5	1	1	0	0	0.001									
	Umadevi, S	8	0.521	8	0.521	8	0.521	8	0.521	8	0.521	0.497	8	1	0.571	0.079	0.079	0.008									
	Moheghi, A	2	0.13	2	0.13	2	0.13	2	0.13	2	0.13	0.286	2	1	1	0	0	0.001									

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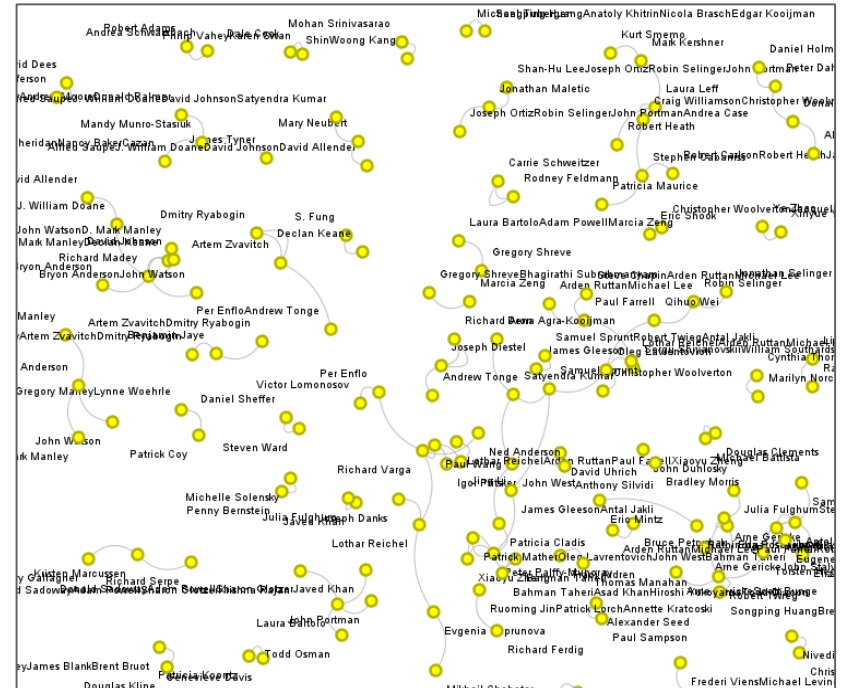
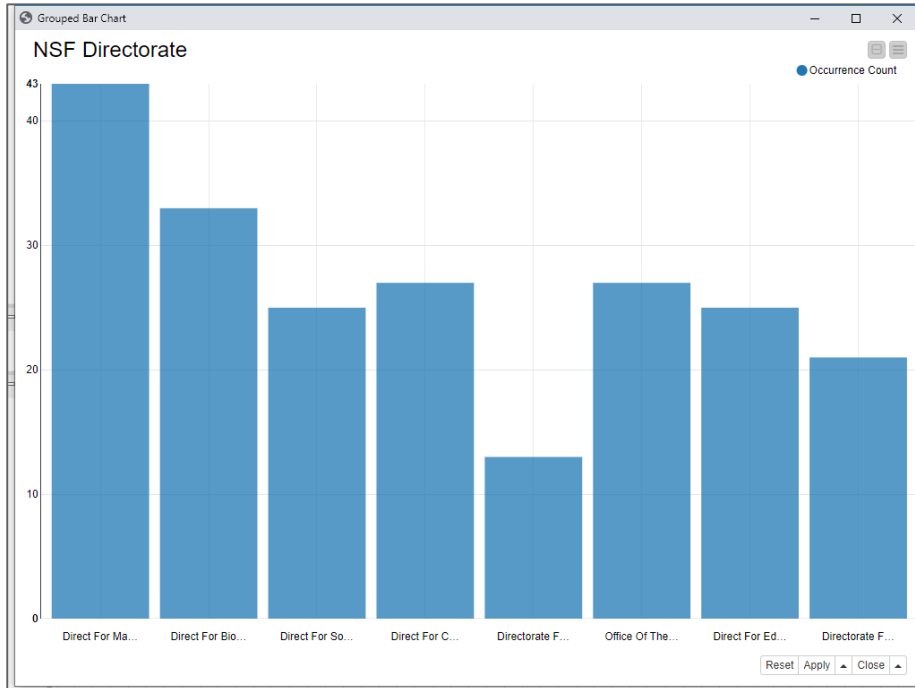
## Patent Technology Classifications



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	Chao-Chiun, Liang	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	1	1	
	SHOKOUHIMEH...	5	0.428	5	0.428	5	0.428	5	0.428	5	0.428	5	0.428	5	1	1	
	Nemati, Hossein ...	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	1	1	
	Hwang, Jeoung ...	3	0.257	3	0.257	3	0.257	3	0.257	3	0.257	3	0.257	3	1	1	
	QIAN LIANGQI (...)	2	0.171	2	0.171	2	0.171	2	0.171	2	0.171	2	0.171	2	1	1	
	Soehnlen, Eric S...	8	0.686	8	0.686	8	0.686	8	0.686	8	0.686	8	0.686	8	1	1	
	Chen, Cheng	4	0.343	4	0.343	4	0.343	4	0.343	4	0.343	4	0.343	4	1	1	
	Osher, Lawrence	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	1	1	
	Nastyshyn, Yuri...	6	0.514	6	0.514	6	0.514	6	0.514	6	0.514	6	0.514	6	1	1	
	Bhowmik, Achint...	2	0.171	2	0.171	2	0.171	2	0.171	2	0.171	2	0.171	2	1	1	
	Gleeson, James T	1	0.086	1	0.086	1	0.086	1	0.086	1	0.086	1	0.086	1	1	1	
	Dobrovolsky, A...	3	0.257	3	0.257	3	0.257	3	0.257	3	0.257	3	0.257	3	1	1	
	GLEESON, Jame...	3	0.257	3	0.257	3	0.257	3	0.257	3	0.257	3	0.257	3	1	1	
	Kelly, Jack (□□□)	4	0.343	4	0.343	4	0.343	4	0.343	4	0.343	4	0.343	4	1	1	
	Li, Liwei	5	0.428	5	0.428	5	0.428	5	0.428	5	0.428	5	0.428	5	1	1	
	Palfy-Muhoray, ...	7	0.6	7	0.6	7	0.6	7	0.6	7	0.6	7	0.6	7	1	1	
	Tsai, Chen Chu (...)	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	0.771	9	1	1	



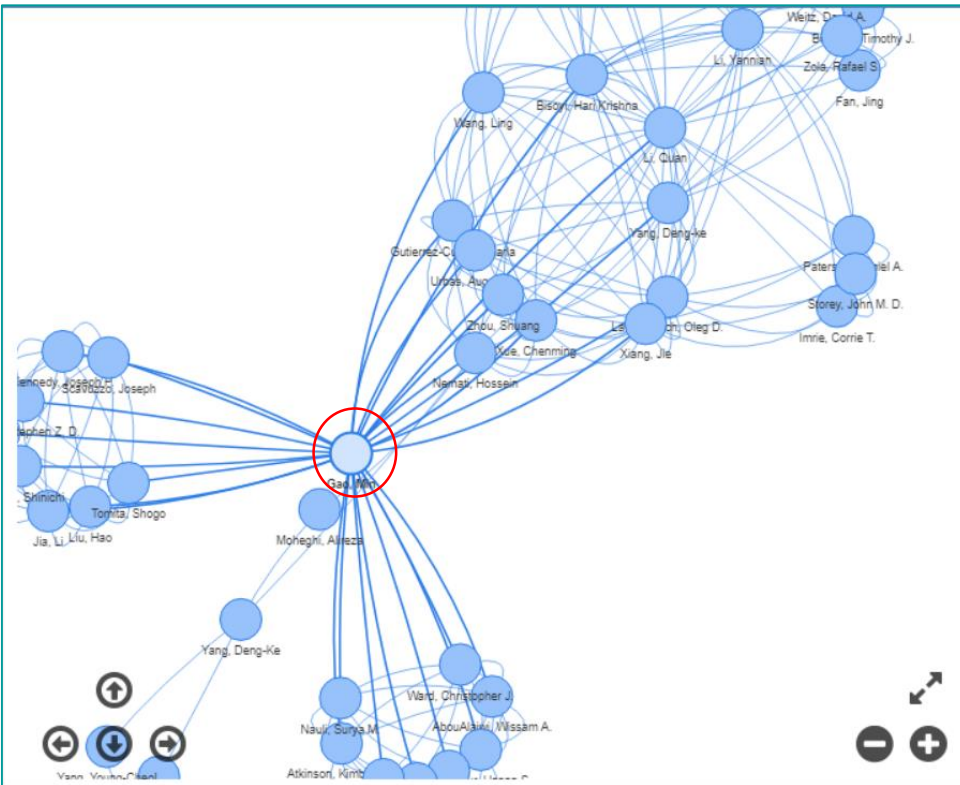
# Results from Grant Analysis



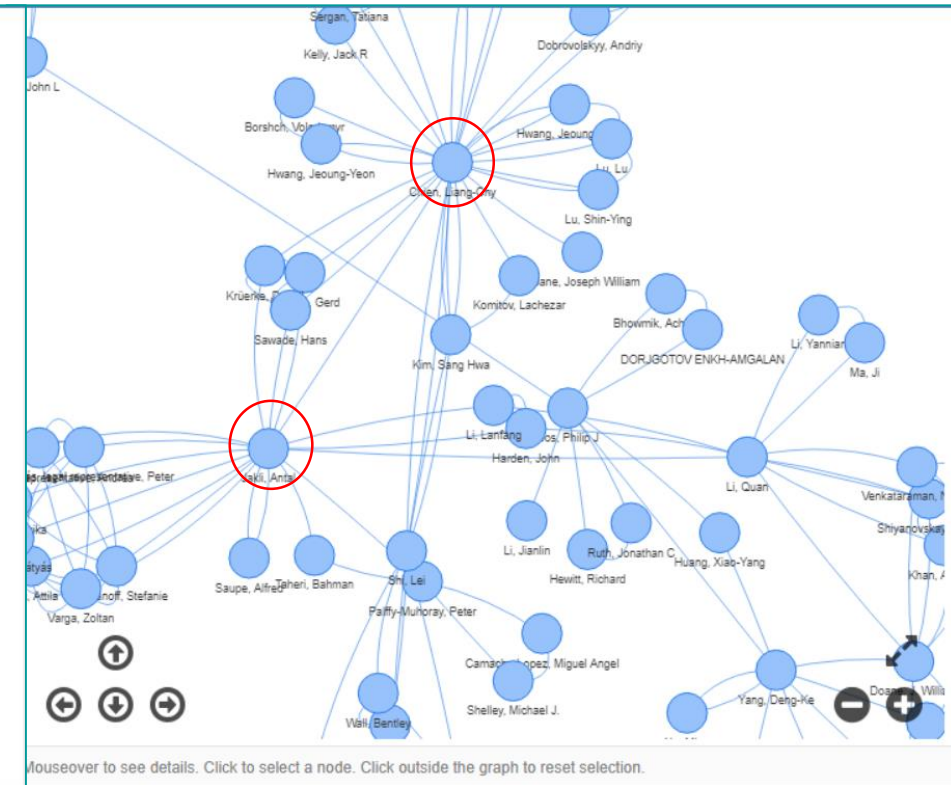
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Genevieve Davis	1	0.787	1	0.787	1	0.787	1	1
Gerassimos Pe...	1	0.787	1	0.787	1	0.787	1	1
Xiaoyu Zheng	2	1.575	2	1.575	2	1.575	1	1
Noah FriedkinE...	1	0.787	1	0.787	1	0.787	1	1
William Kalkhoff	1	0.787	1	0.787	1	0.787	1	1
Robin Selinger	2	1.575	2	1.575	2	1.575	1	1
Paul Farrell	3	2.362	3	2.362	3	2.362	1	1
Joseph OrtizD...	1	0.787	1	0.787	1	0.787	1	1
Ben FinneyMar...	1	0.787	1	0.787	1	0.787	1	1

# Network Analysis of Scholars

## Authors of Publications



## Participants of Grants





# Case Study II: Financial Analysis with Firm Data

## Going public in China: Reverse mergers versus IPOs

**Aim:** This study examines the decision to go public in China through an initial public offering (IPO) versus a reverse merger (RM) transaction.



Journal of Corporate Finance  
Volume 58, October 2019, Pages 92-111



Going public in China: Reverse mergers versus IPOs ☆

Charles M.C. Lee <sup>a</sup>, Yuanyu Qu <sup>b</sup>, Tao Shen <sup>c</sup>,  

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<https://doi.org/10.1016/j.jcorpfin.2019.04.003> [Get rights and content](#)

### Highlights

- We study firms' choice to go public through reverse mergers (RMs) versus initial public offerings (IPOs) in China.
- Pre-listing RM firms are larger, more profitable, and less politically-connected than pre-listing IPO firms.
- RM firms also have superior post-listing performance, both in terms of operations and stock returns.
- These results are in sharp contrast to the evidence on RMs from developed countries.

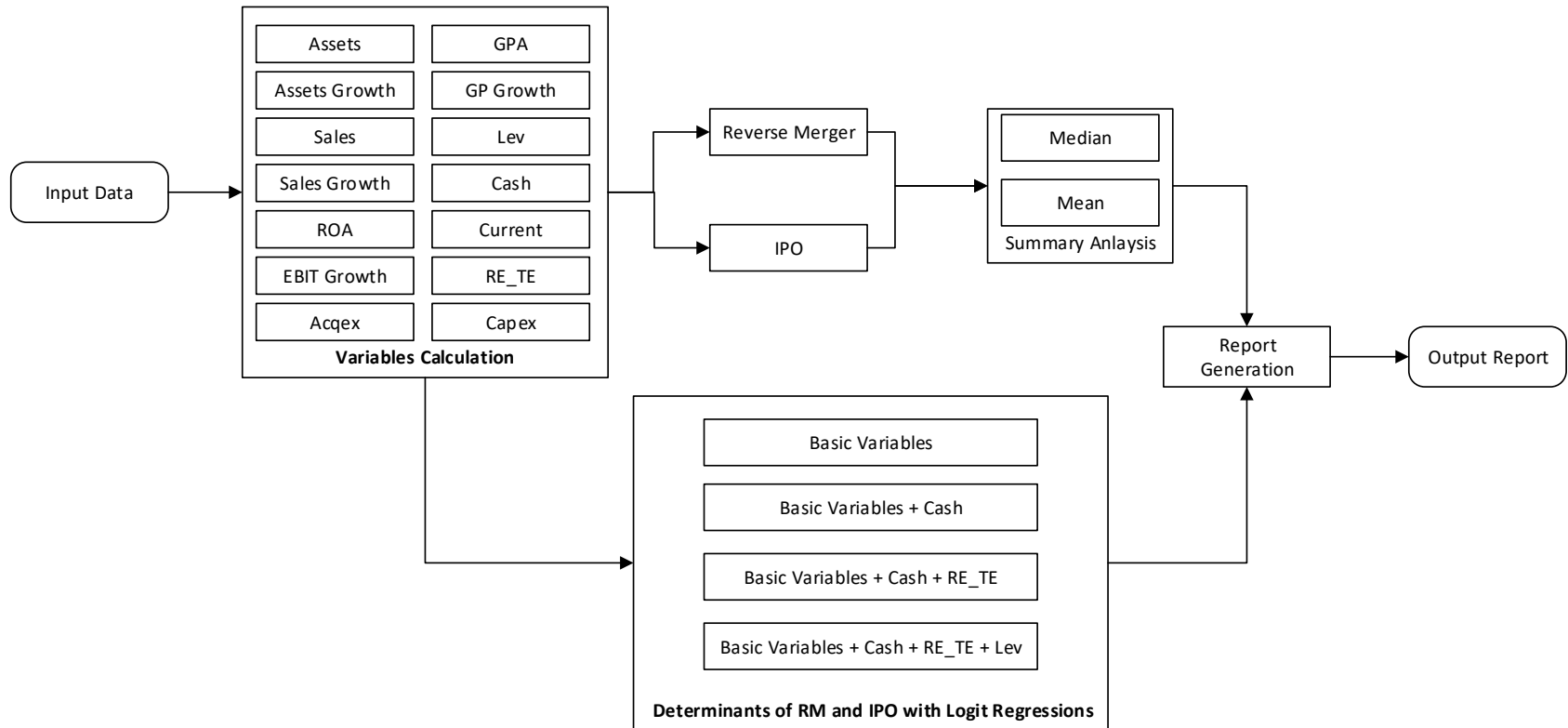
### Abstract

We study firms that go public through reverse mergers (RMs) versus [initial public offerings](#) (IPOs) in China. Using a manually assembled data set, we show that pre-listing RM firms are larger, more profitable, and less politically connected than pre-listing IPO firms. Chinese RM firms also have superior post-listing performance, in terms of both operations and [stock returns](#), compared to IPOs matched on industry and size. Unlike IPOs, RM firms do not underperform the market in the long run. These results are in sharp contrast to the evidence on RMs from [developed countries](#). We trace these differences to China's stringent and potentially biased IPO policies, which appear to preclude even high-quality firms from accessing public markets.

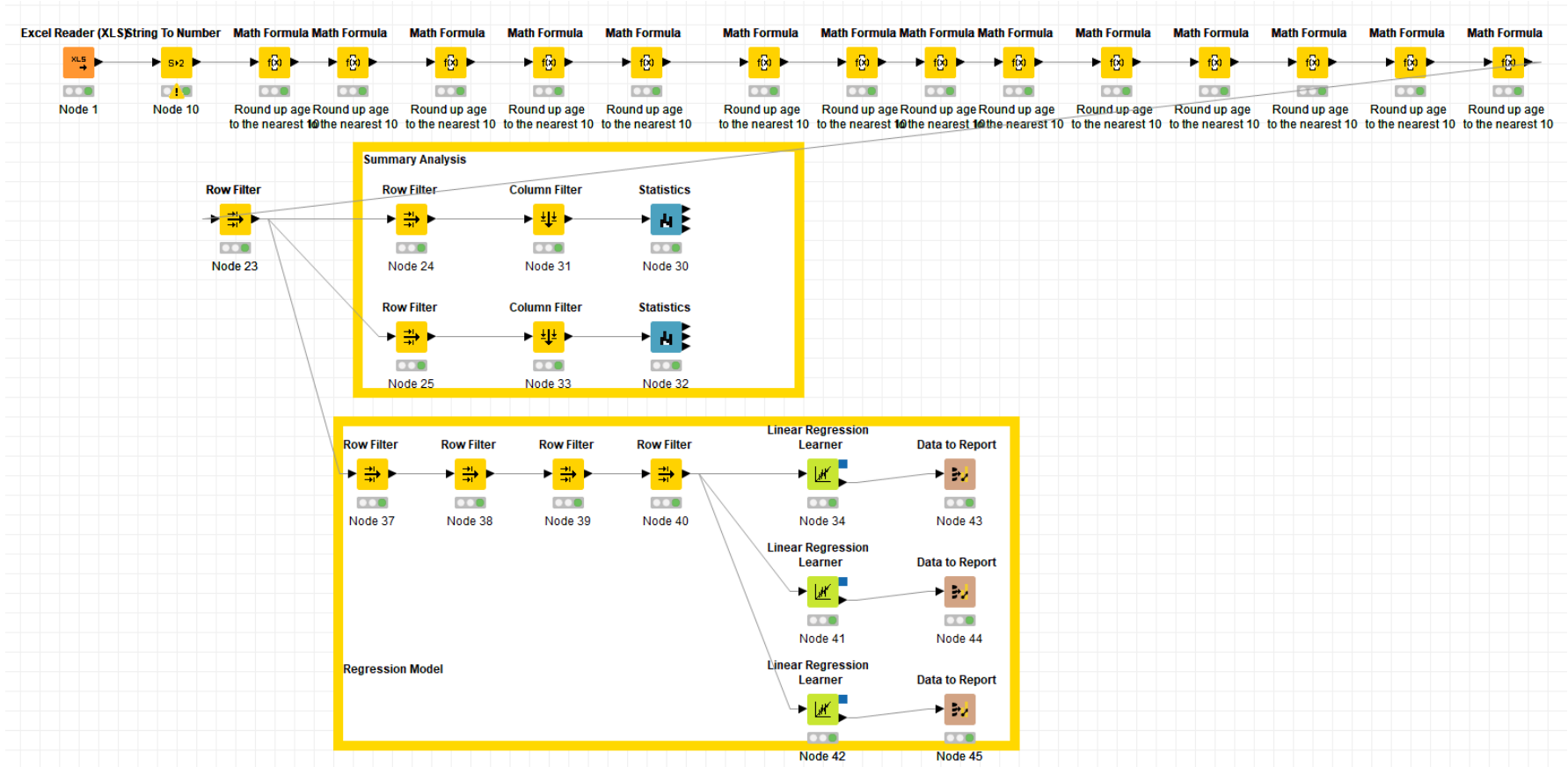
# Data Sources

Name	Format	Description
IPO.xlsx	xlsx	The financial and stock returns data of listed firms are from the China Stock Market and Accounting Research (CSMAR) Database
RM.xlsx	xlsx	The data is from the iFinD database provided by Tong Hua Shun (THS), a major financial data service company in China
Firm.xlsx	xlsx	The financial information on each RM proposal from <a href="http://www.cninfo.com.cn">www.cninfo.com.cn</a> , a CSRC-authorized website that archives documents and filings for listed firms

# Flow Chart for Data Analysis



# KNIME Workflow for Data Analysis



# Results from Data Analysis

## Summary Statistics of RM and IPO

Row ID	S Column	D Min	D Max	D Mean	D Std. deviation	D Variance	D Overall ...	I	I	I	I	I	I	I	Histogram
GPA	GPA	-0.007	0.638	0.162	0.141	0.02	17.024	5	0	0	0	0	0	0	
ROA	ROA	-0.157	0.42	0.085	0.099	0.01	9.094	3	0	0	0	0	0	0	
GP Growth	GP Growth	-627	56,679	1,260.835	7,203.23	51,886,524	132,387,667	5	0	0	0	0	0	0	
assets	assets	309,7	359,80	18,987	43,036,002,985	1,852,097,5	2,088,583,6	0	0	0	0	0	0	0	
assets gr...	assets gr...	-0.299	376.438	4.996	36.275	1,315.889	549.613	0	0	0	0	0	0	0	
sales	sales	12,65	57,482	5,055,5	8,239,117,930.447	67,883,064	530,827,55	5	0	0	0	0	0	0	
sales growth	sales gro...	-0.918	87.484	2.938	12.784	163.419	323.195	0	0	0	0	0	0	0	
EBIT	EBIT	-476	10,705	805,421	1,450,585,376.419	2,104,197,9	86,180,152	3	0	0	0	0	0	0	
lev	lev	0.045	0.956	0.492	0.235	0.055	54.115	0	0	0	0	0	0	0	

## Results from Logit Regressions

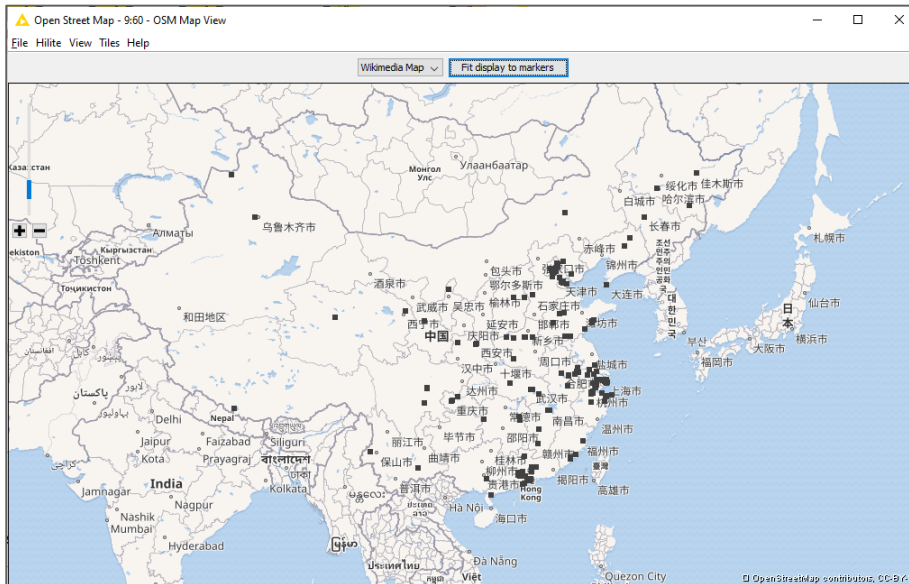
S Variable	D Coeff.	D Std. Err.	D t-value	D P> t
GPA	-0.197	0.117	-1.687	0.092
ROA	0.624	0.19	3.287	0.001
assets	0	0	1.458	0.145
assets growth	-0	0.001	-0.078	0.938
sales	0	0	0.12	0.905
sales growth	0.012	0.002	5.151	0
EBIT	-0	0	-0.792	0.428
current	-0.029	0.085	-0.336	0.737
re_te	0.018	0.005	3.762	0
acqex	-0	0	-0.604	0.546
capex	0	0	2.998	0.003
net payout	-0	0	-1.294	0.196
Intercept	0.08	0.02	4.044	0

S Variable	D Coeff.	D Std. Err.	D t-value	D P> t
GPA	-0.164	0.117	-1.403	0.161
ROA	0.67	0.19	3.519	0
assets	0	0	0.868	0.385
assets growth	0	0.001	0.056	0.955
sales	-0	0	-0.176	0.86
sales growth	0.012	0.002	4.927	0
EBIT	-0	0	-0.767	0.443
lev	0.129	0.052	2.477	0.013
current	0.014	0.087	0.159	0.873
re_te	0.018	0.005	3.707	0
acqex	-0	0	-0.445	0.657
capex	0	0	2.677	0.008
net payout	-0	0	-0.635	0.526
AO	0	0	0.186	0.852
Intercept	0.011	0.034	0.31	0.757

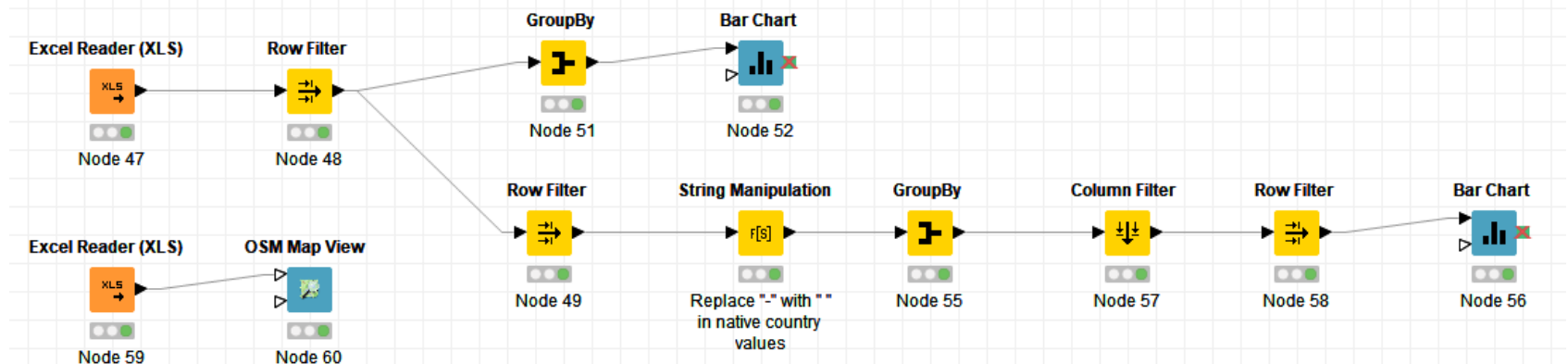
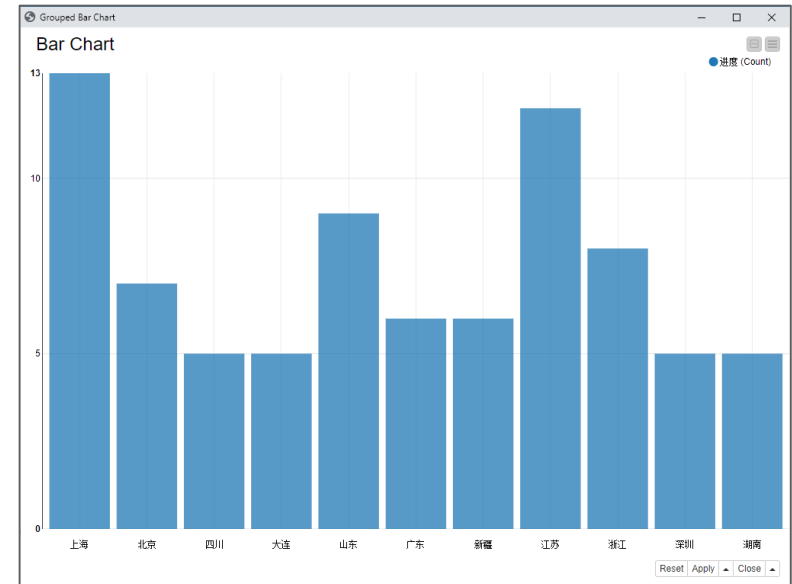
保留三位小数

# Results from the Expanded Analysis

## Spatial Distribution of RM Firms

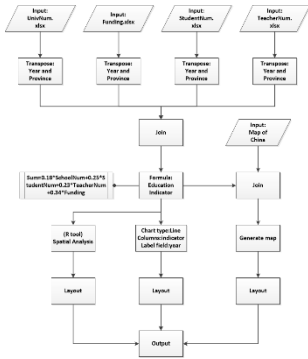


## Number of RM Firms by Province

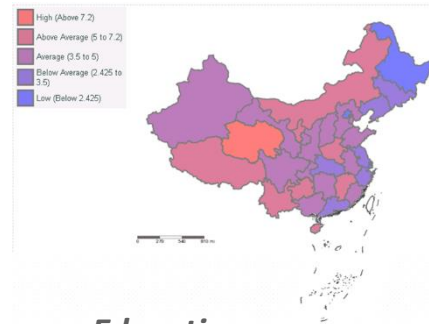


# Replicable, Reproducible and Expandable

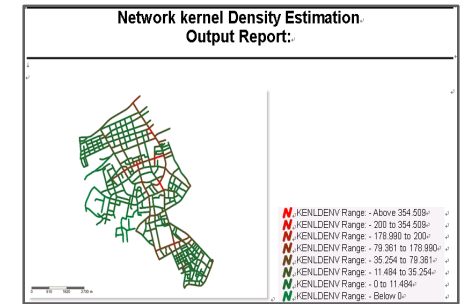
## □ CDL Platform for Workflow Data Analysis



Environment



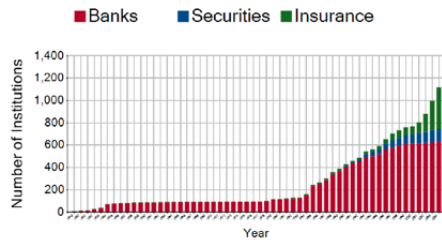
Education



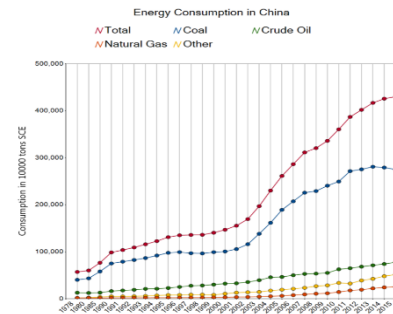
Transportation



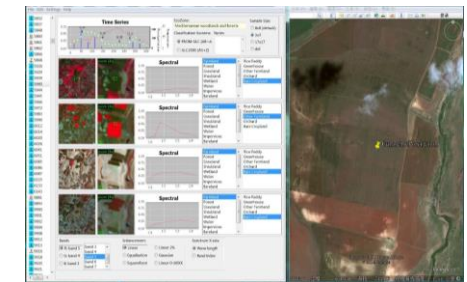
Total Numbers of Financial Institutions in Guangdong (1949 - 2004)



Economics



Energy



Land Use





# Web Sites



**China Data Lab**

<http://chinadatalab.net>

**China Data Online**

<http://china-data-online.com>

**China Data Lab on the Cloud**

<http://chinadatalab.cn>

[office@chinadatacenter.net](mailto:office@chinadatacenter.net)