China Data Institute

New Technology, New Features, and New Directions

Shuming Bao
China Data Institute

http://chinadatacenter.net
http://china-data-online.com

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

New Look of China Data Online

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

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

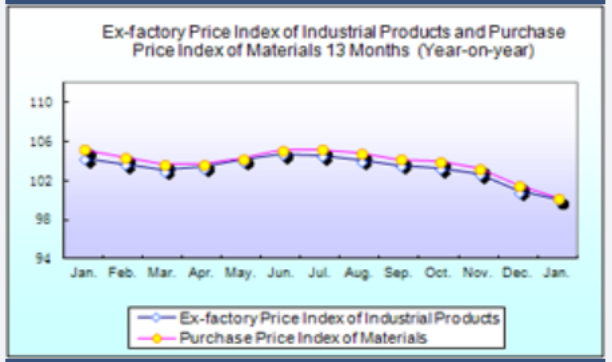
CENSUS DATA

- 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)

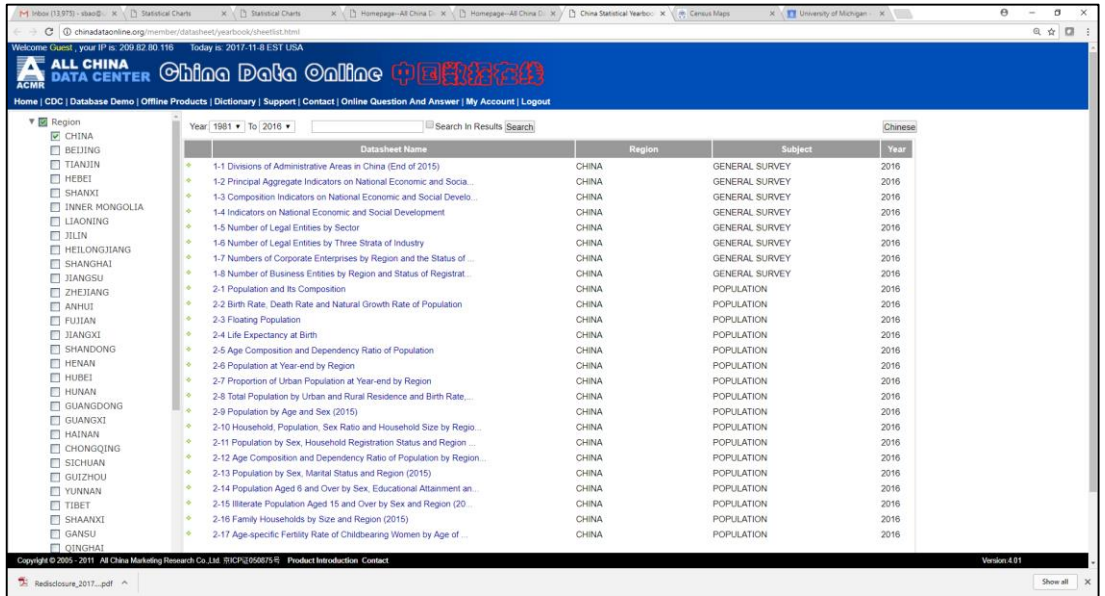
New Development: Statistical Datasheets

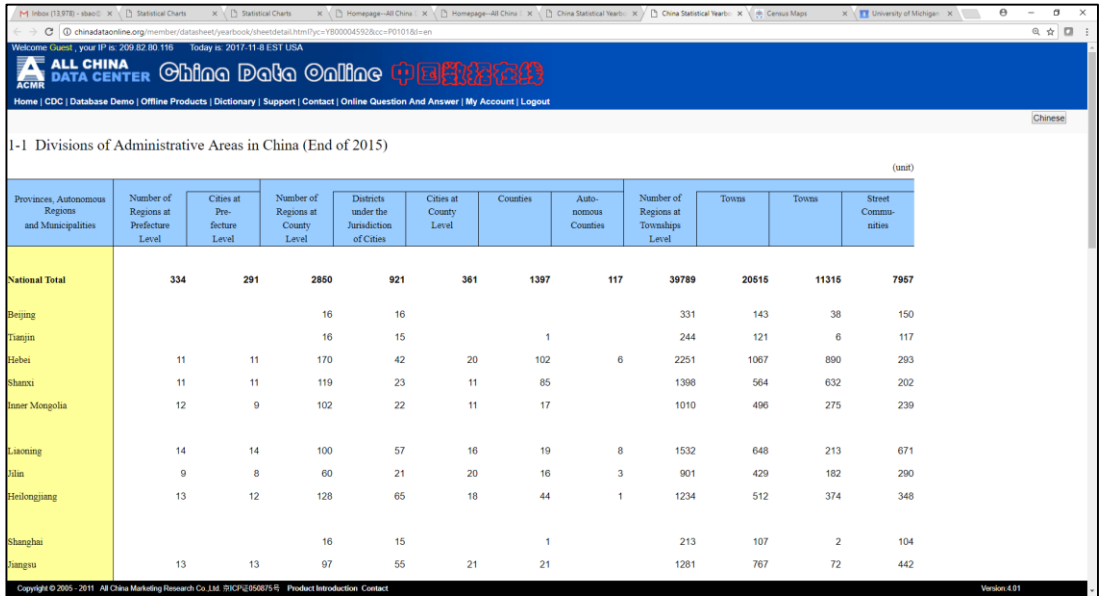
- It covers statistical tables from all provincial yearbooks and NBS from current to past
- English and Chinese
- Full text search
- Metadata for each table, including citation information and unique ID for direct access

Citation:

NATIONAL BUREAU OF STATISTICS(2016).POPULATION | Region:CHINA | China Data Online

http://chinadataonline.org/member/datasheet/yearbook/sheetdetail.html?yc=YB00004592&cc=P0203&l=en



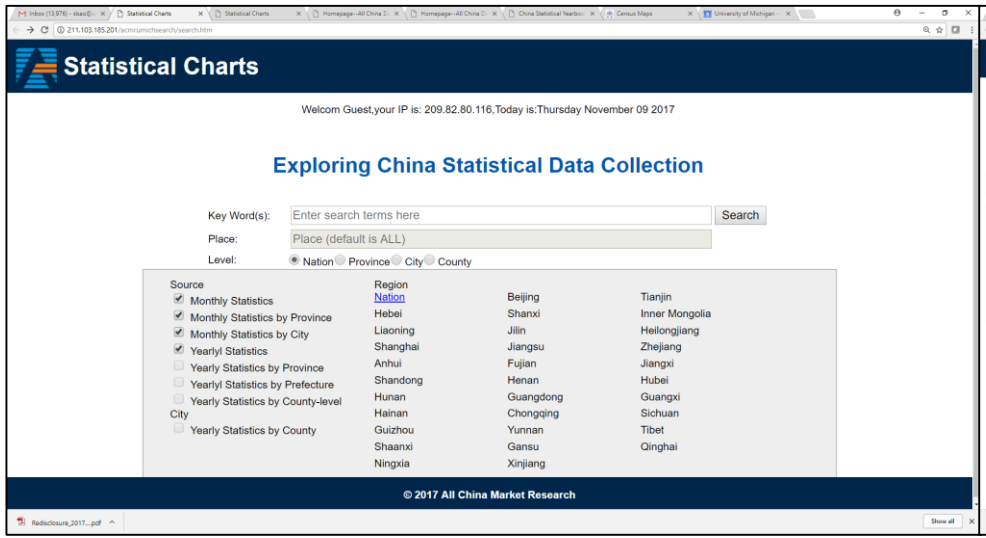


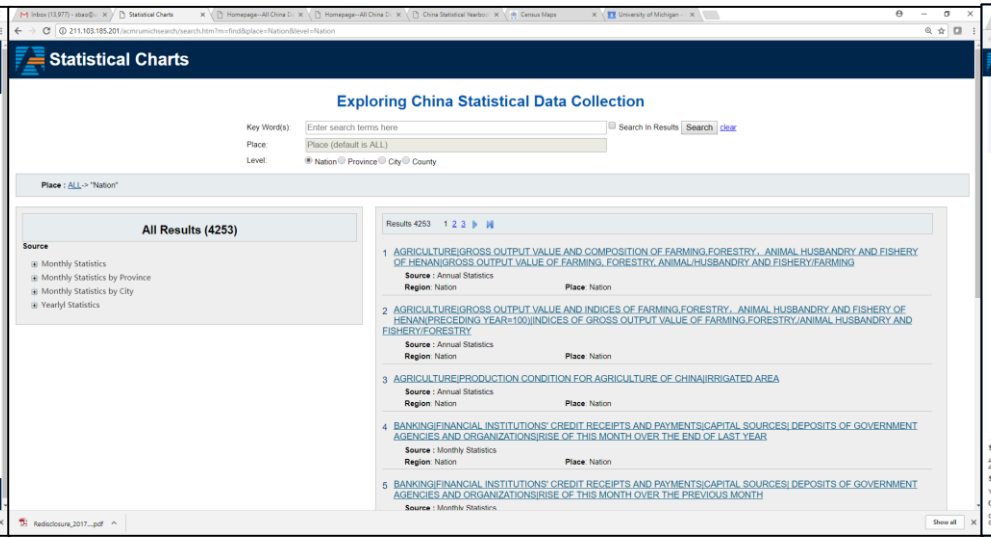
New Development: Statistical Charts

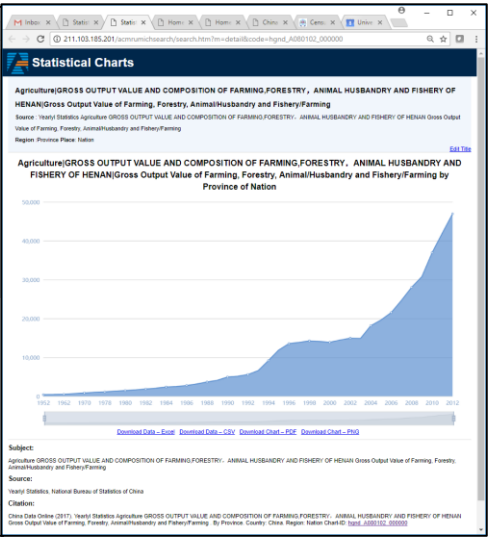
- It includes statistical tables from Statistical Database
- English and Chinese
- Full text search
- Metadata for each chart, including citation information and unique ID for direct access

Citation:

China Data Online (2017). Yearlyl Statistics Agriculture GROSS OUTPUT VALUE AND COMPOSITION OF FARMING,FORESTRY， ANIMAL HUSBANDRY AND FISHERY OF HENAN Gross Output Value of Farming, Forestry, Animal/Husbandry and Fishery/Farming . By Province. Country: China. Region: Nation Chart-ID: hgnd_A080102_000000





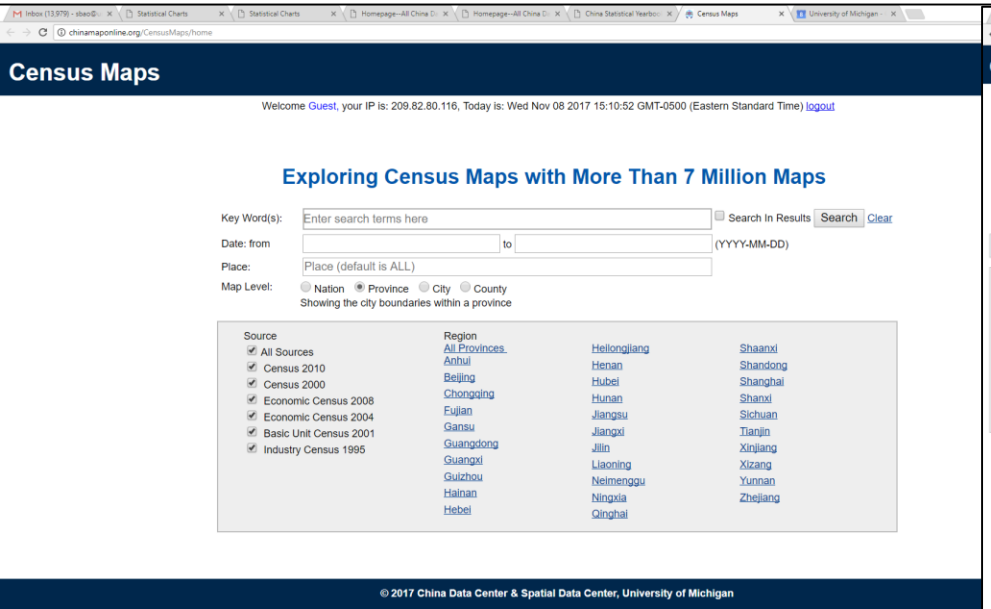


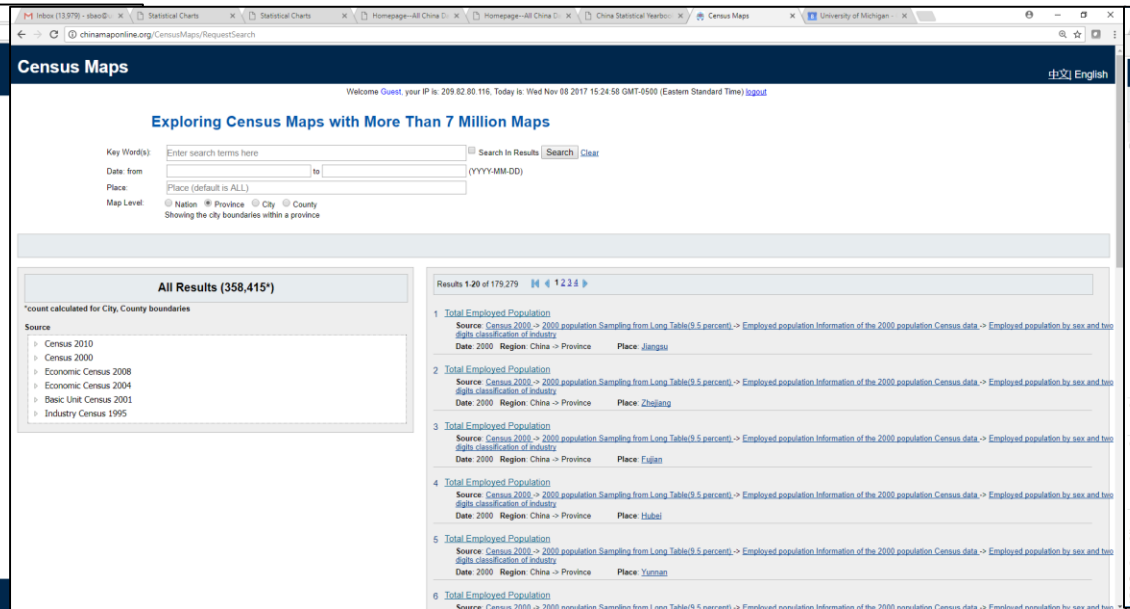
New Development: China Census Maps

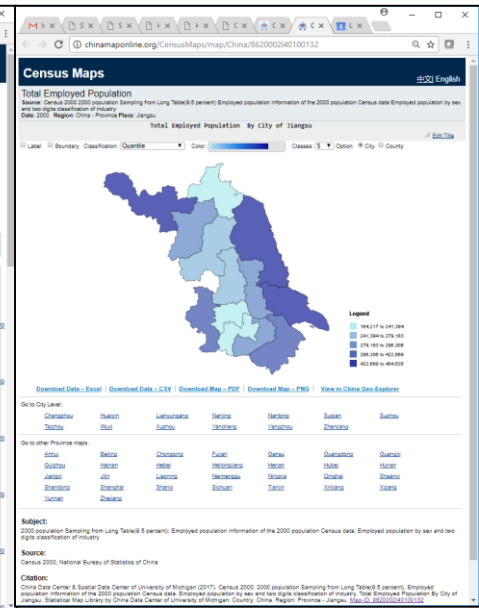
- More than 7 million maps for census data
- Full text search (by keyword, year, place)
- Metadata for each map, including citation information and unique map ID for direct access
- Export census data to Excel or CSV files
- Export maps to PDF or graphic files

Citation:

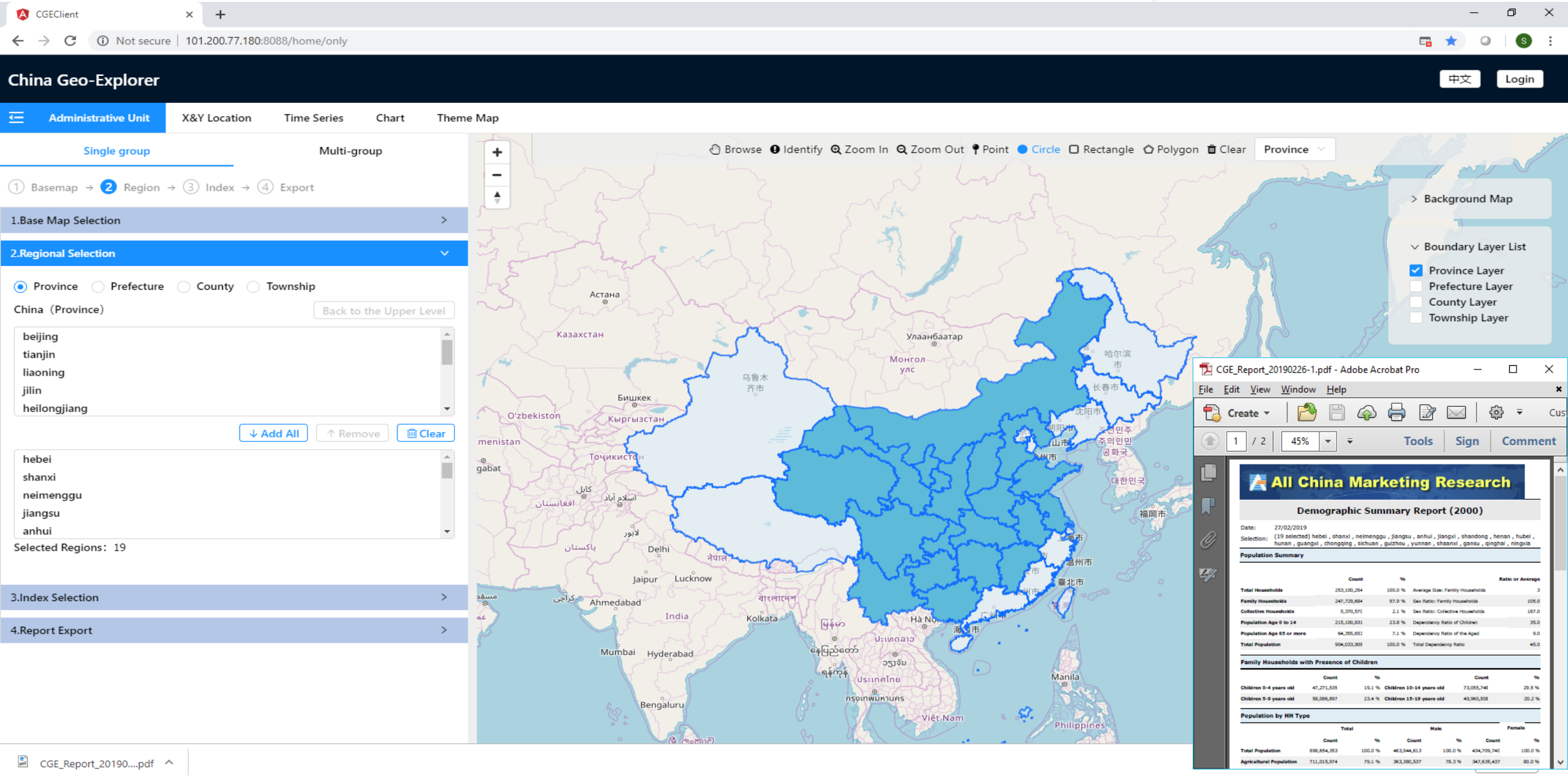
China Data Center & Spatial Data Center of University of Michigan (2017). Census 2000, 2000 population Sampling from Long Table(9.5 percent), Employed population Information of the 2000 population Census data, Employed population by sex and two digits classification of industry, Total Employed Female Population in Polytechnic Services By City of Xinjiang. Statistical Map Library by China Data Center of University of Michigan. Country: China. Region: Province - Xinjiang. Map-ID: 8620002l40130665



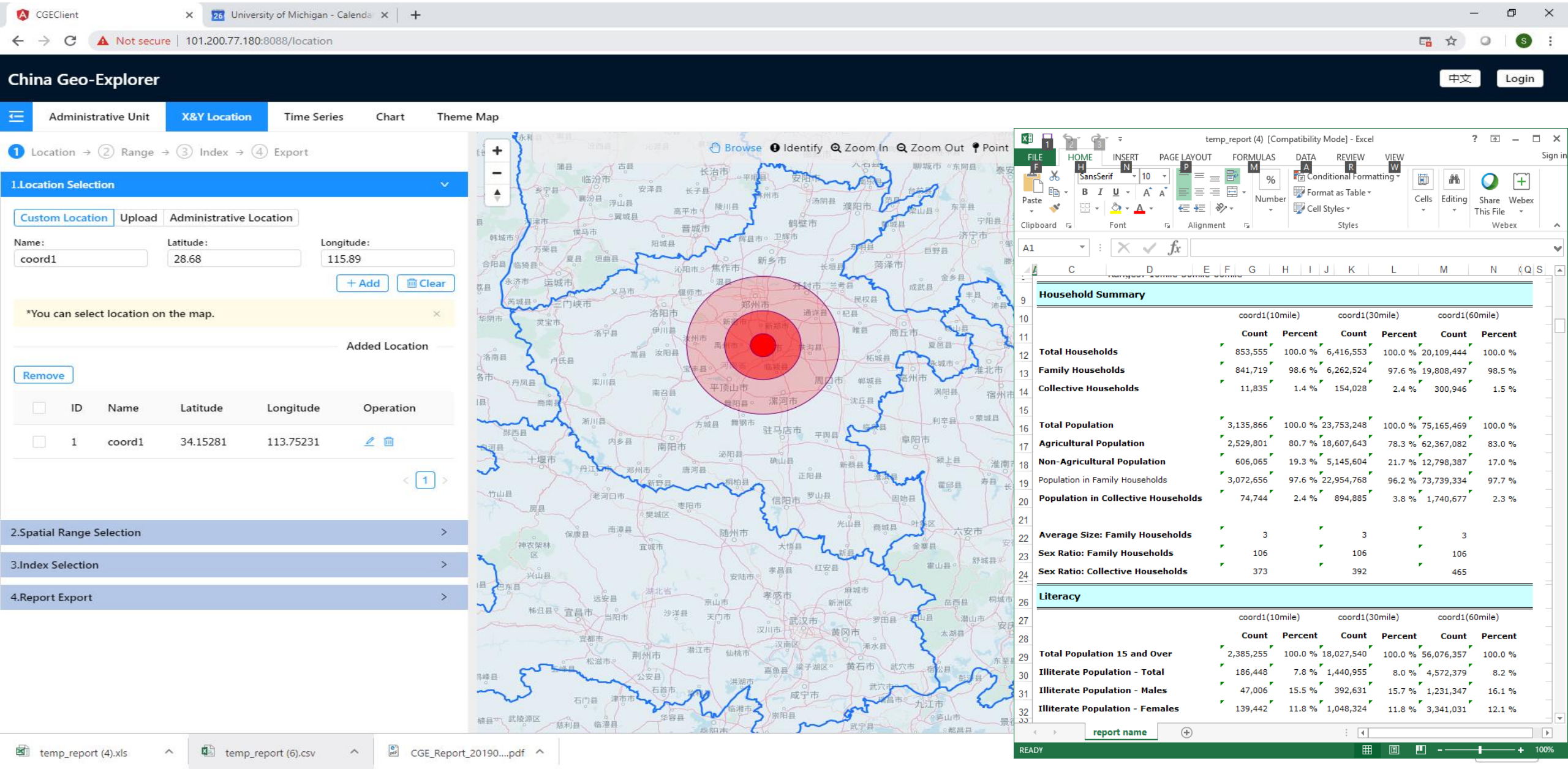




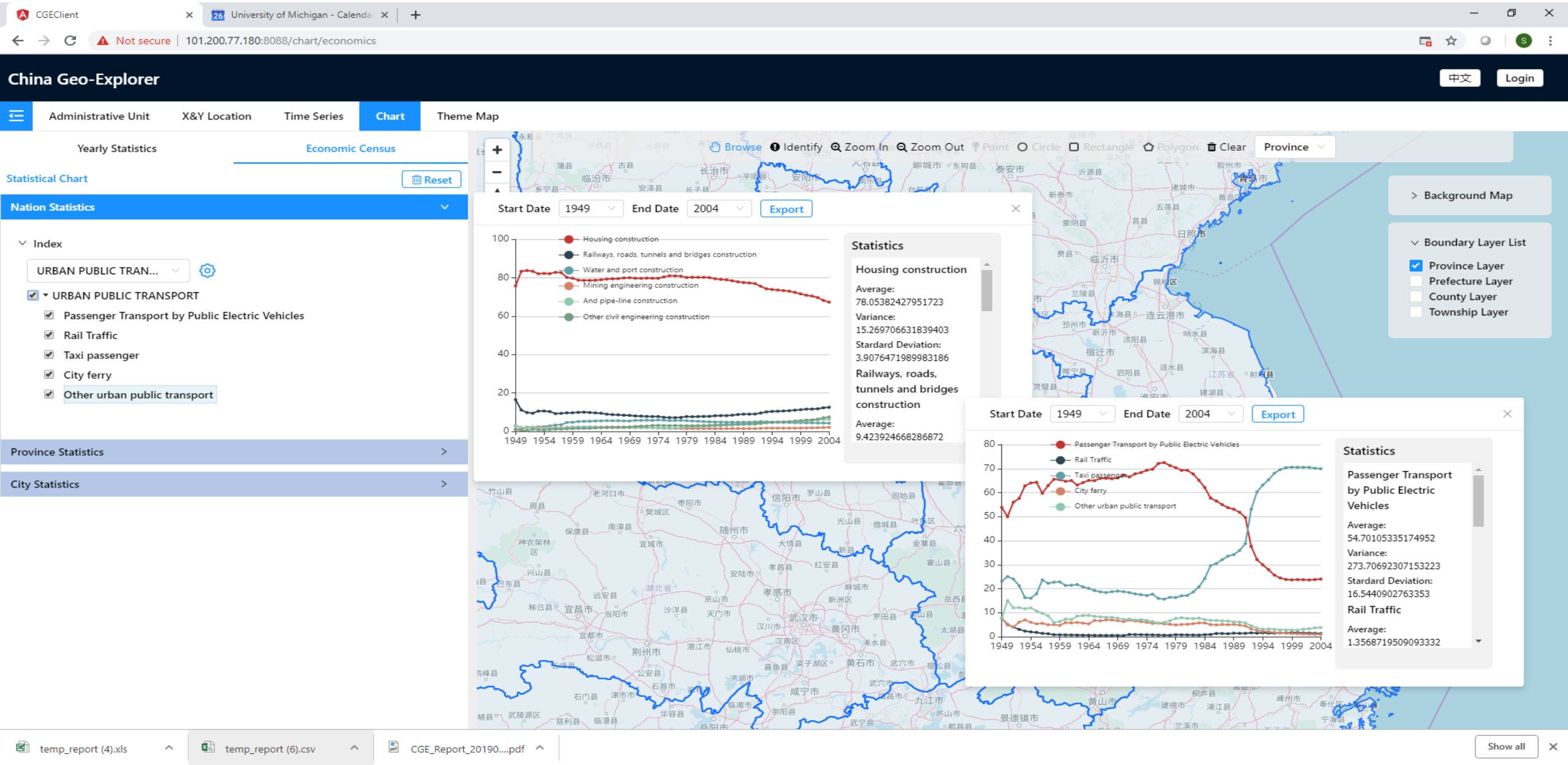
New Look of China Geo-Explorer



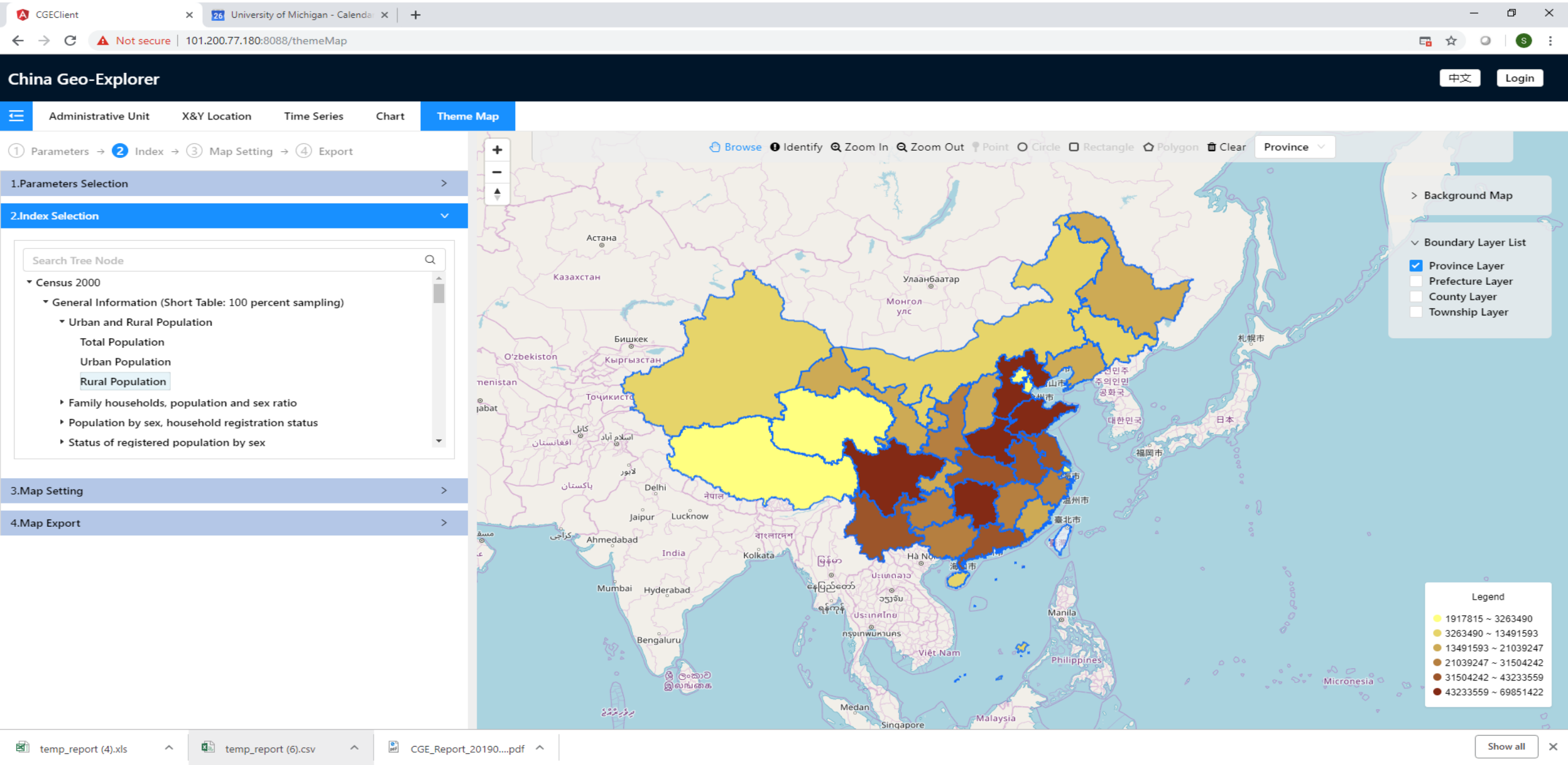
China Geo-Explorer: Selection by Location



China Geo-Explorer： Trend Analysis



China Geo-Explorer： Theme Map



National Sciences Foundation: Robust and Reliable Science

- **Reproducible**
- **Replicable**
- **Generalizable**

As defined in the NSF/SBE Advisory Committee 2015 report, *Social, Behavioral, and Economic Sciences Perspectives on Robust and Reliable Science*, "robust and reliable" science refers to research that is **reproducible**, **replicable**, and **generalizable**.

Reproducibility refers to the ability of a researcher to duplicate the results of a prior study using the same materials and procedures used by the original investigator.

Replicability refers to the ability of a researcher to duplicate the results of a prior study if the same procedures are followed but new data are collected.

Generalizability refers to whether the results of a study apply in other contexts or populations that differ from the originals. Robust and reliable research is the foundation of all scientific development and progress, which depends critically on the ability of investigators to build on prior work.

An Integration of Data, Tools and Data Case Studies
Based on the Cloud Platform

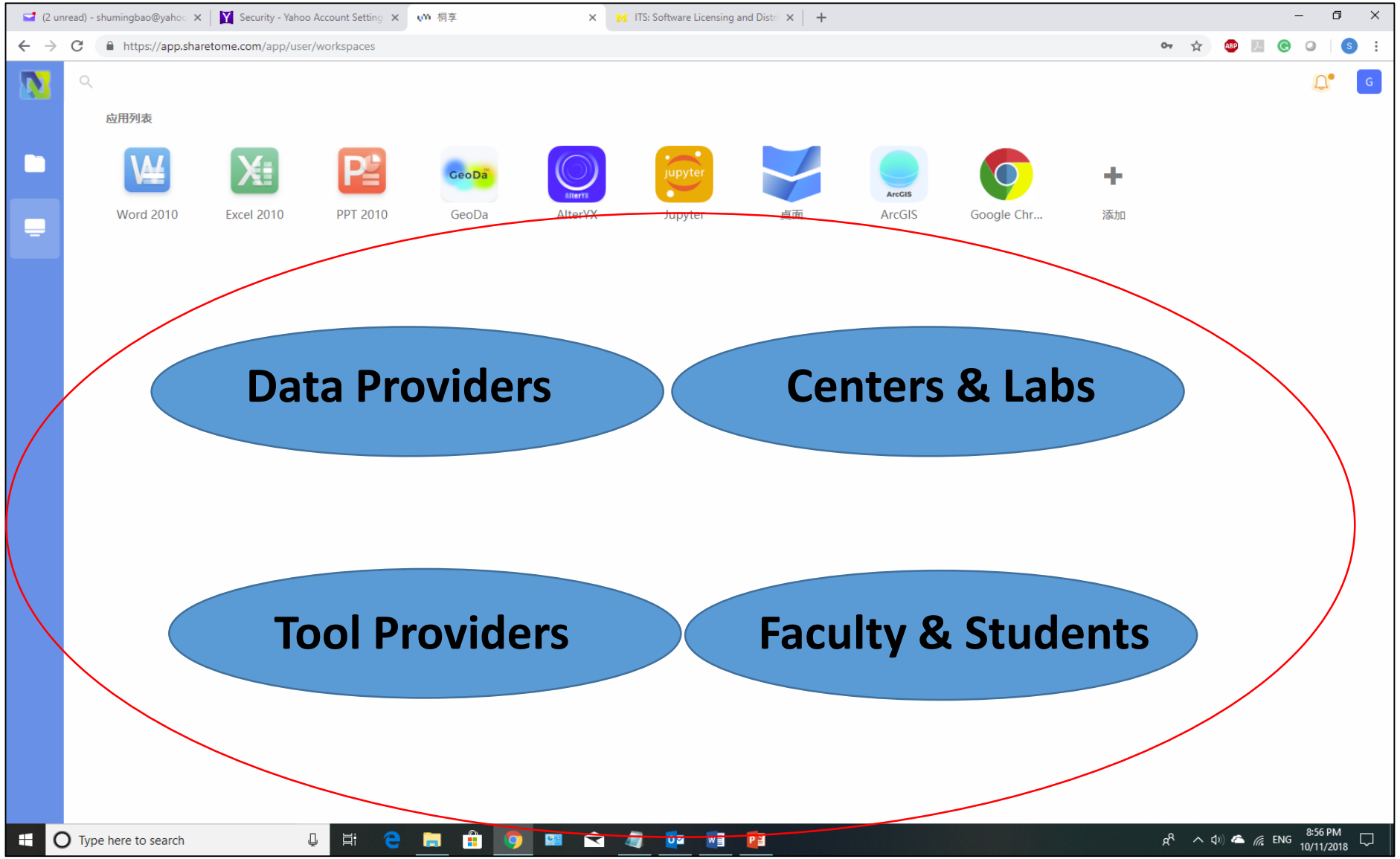
China Data Lab

A Partner Network for China and Global Studies

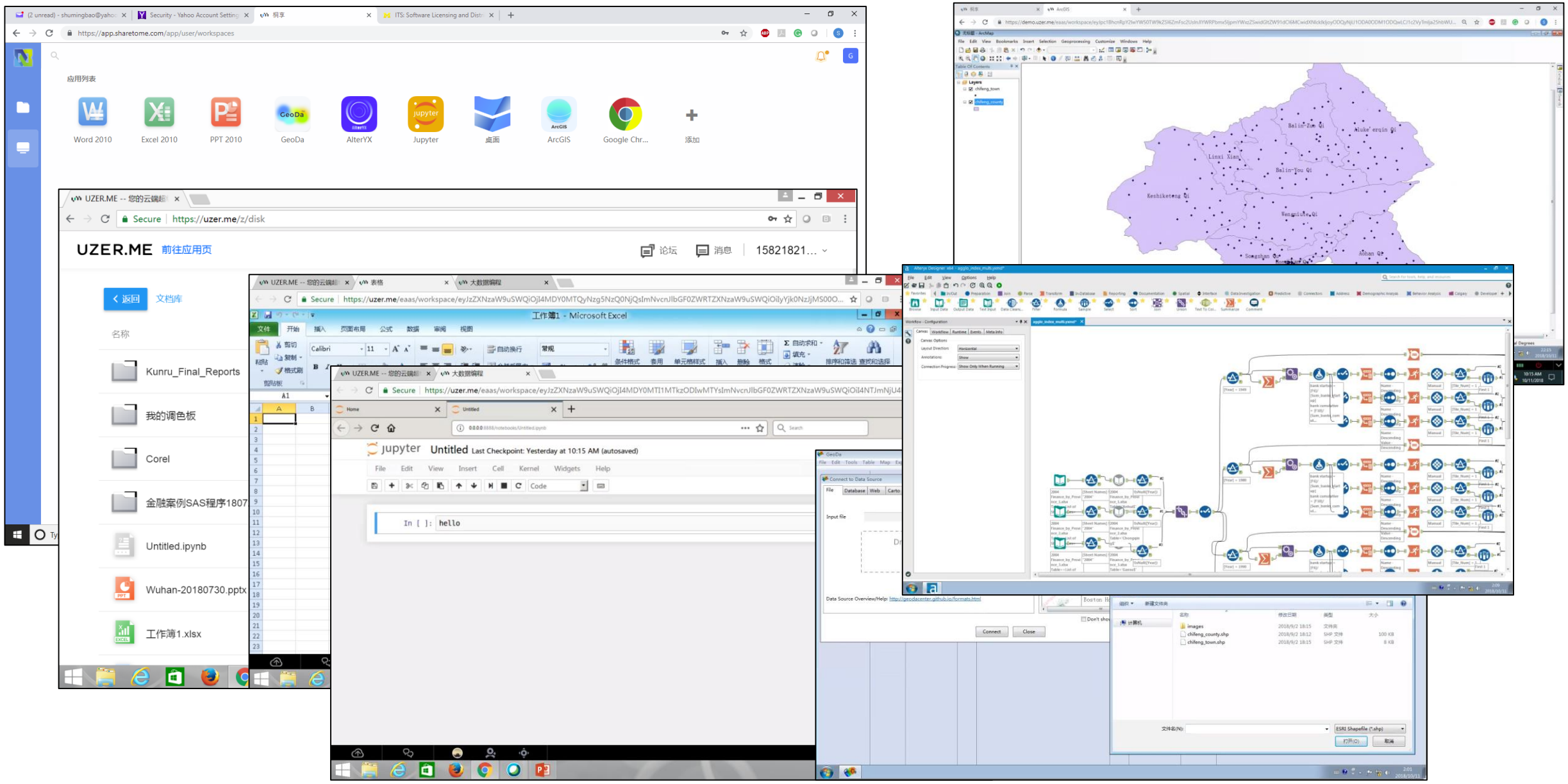
China Data Lab：Features

- Users can have access to the full source data on the cloud
- Users can use those powerful tools for data processing and analysis on the cloud without downloading the data
- Users can learn from the workflow based data case studies
- Users can download the analytical results and reports
- Users can replicate, reproduce and expand those case studies on the cloud

A Partner Network for China and Global Studies



Cloud Based Data Analysis



Demo: A Workflow Based Data Case Study

Religious Diversity and Regional Development

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China Economic Review

Volume 46, December 2017, Pages 1-9

Religious diversity and regional development in China

Zheng Ying [a, b], Shibao Liu [c], Shuming Bao [d, e], Jianbo Zhou [a]

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https://doi.org/10.1016/j.chieco.2017.08.003 Get rights and content

Highlights

- Identify possible impacts of religious diversity on regional development at province level under the same political regime
- Apply fragmentation and polarization indices as measures of religious diversity
- Solve the endogeneity issue with the fixed-effect two-stage regression

Abstract

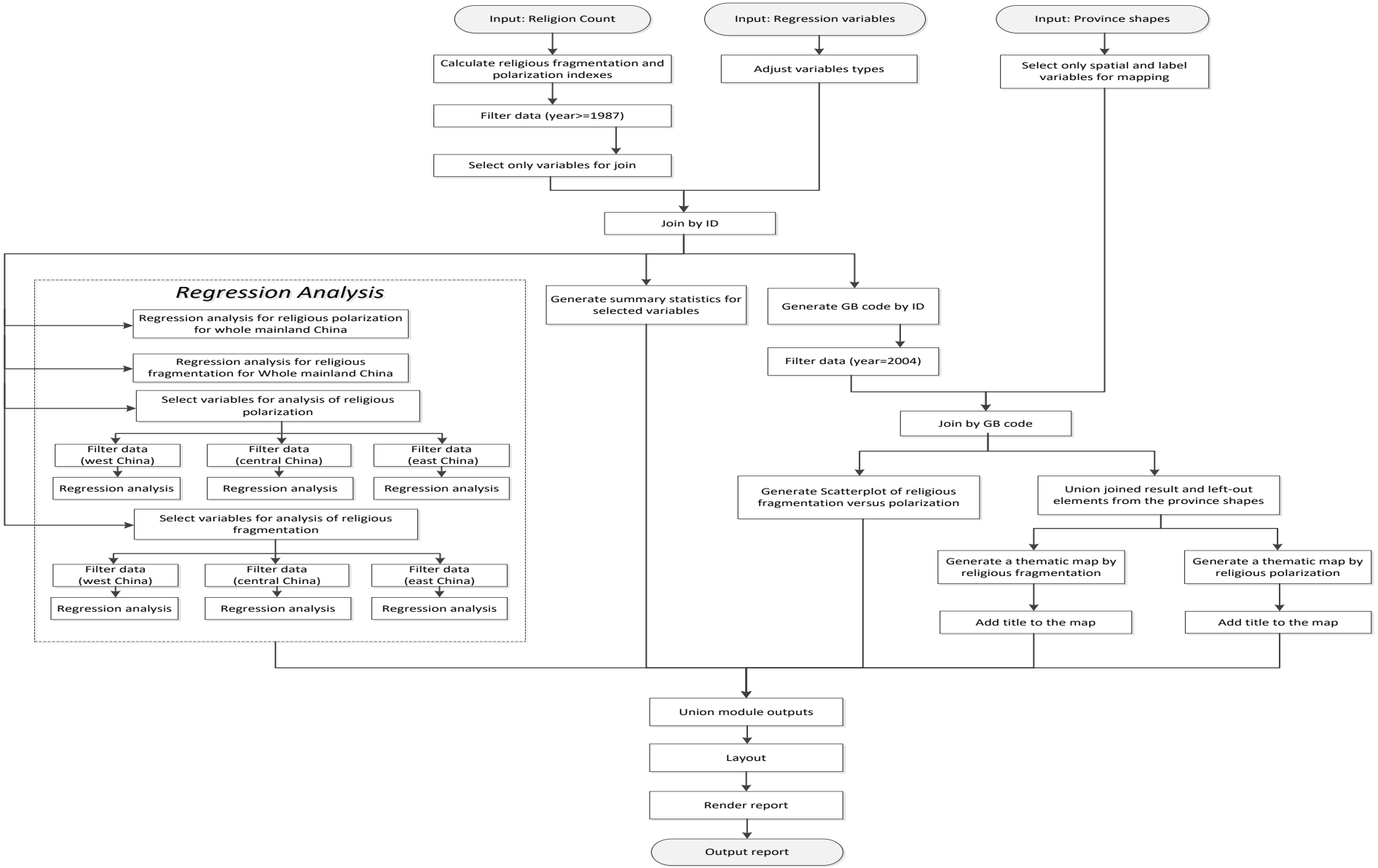
This paper investigates possible impacts of religious diversity on regional development in China. We developed the religious fragmentation and polarization indices as measurements for the religious diversity by using the religious site data from the 2004 economic Census data in China. The results from the panel data regressions within national coverage suggest that the religious diversity has positive and significant impacts on regional development in general. The results from the panel data regressions within regional coverage also suggest that religious fragmentation has a positive and significant association with the economic development in the eastern region of China while religious polarization has a positive and significant association with the economic development in the central and western regions of China.

Aim: Test the impacts of religious diversity on regional development in China

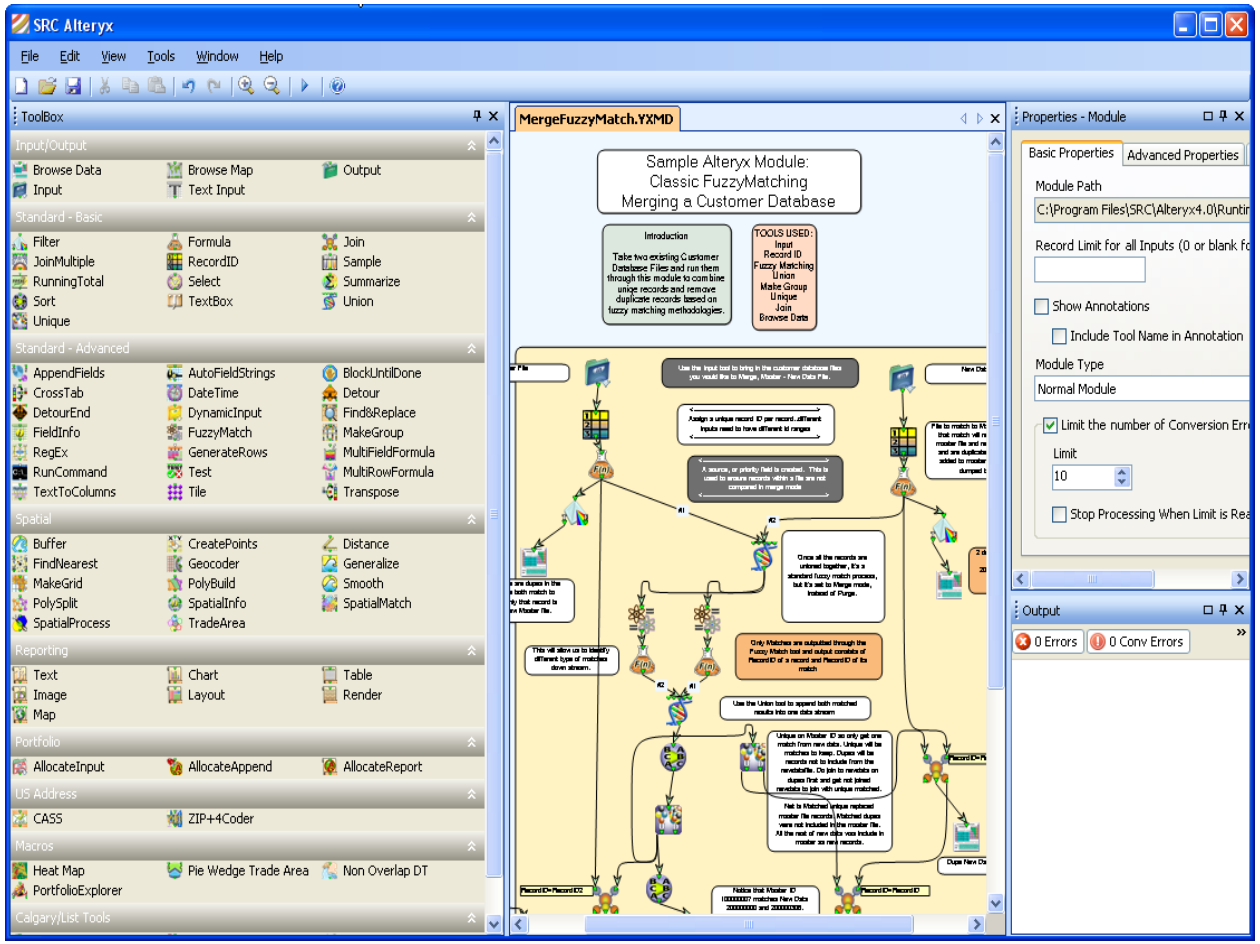
Findings from previous studies: Religious diversity may have positive or negative impacts on economic development

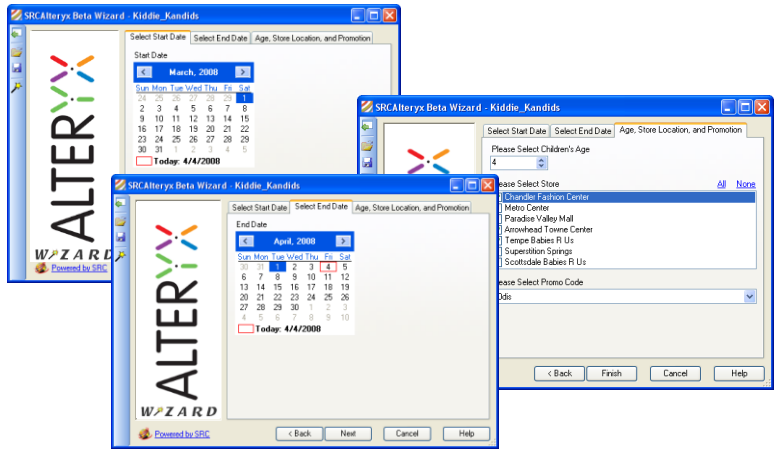
Background of this study: Test the impacts of religious diversity on regional development under the same political regime at sub-national level (province) in a peaceful environment

The Flow Chart for Religious Analysis



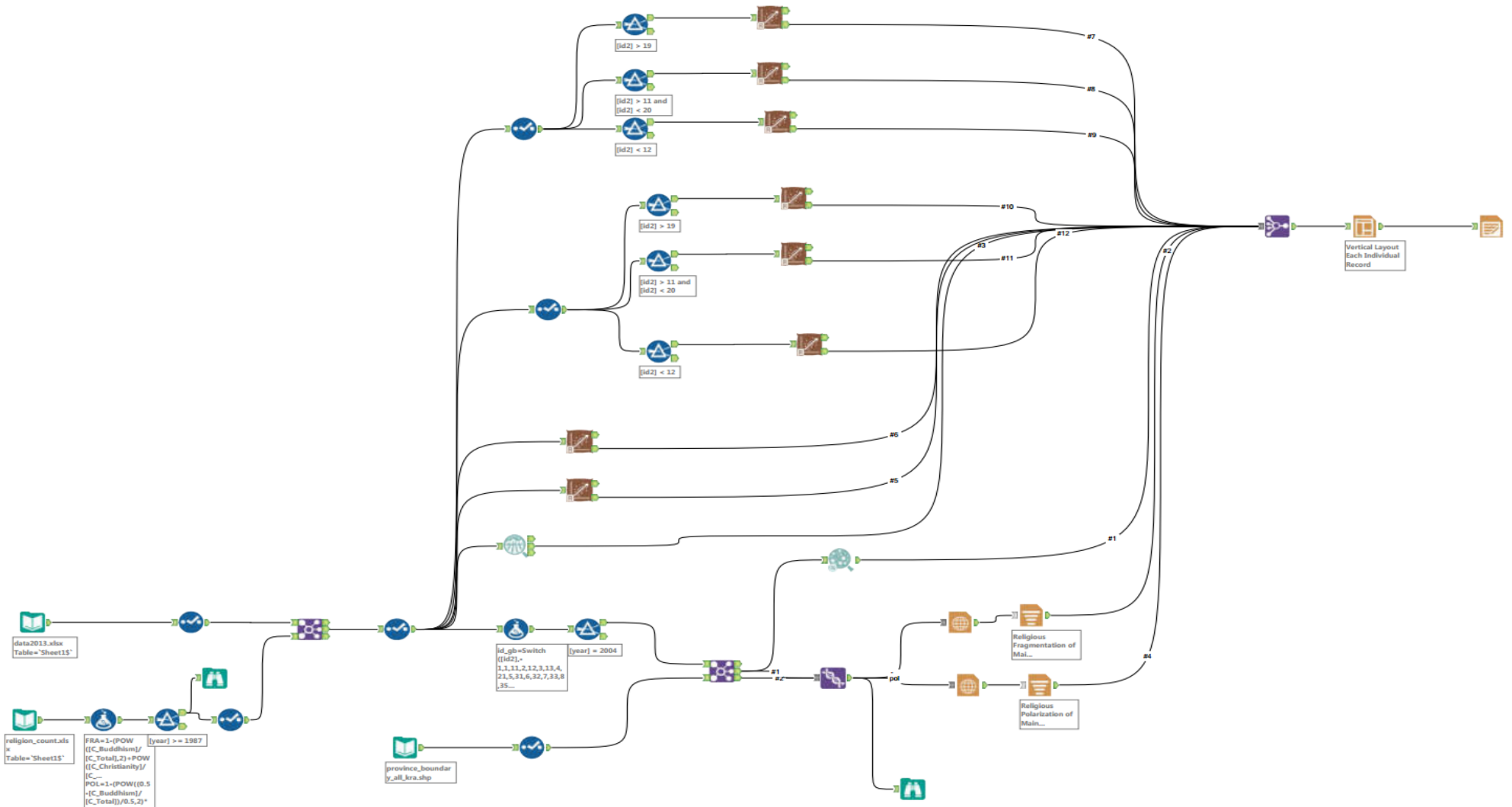
A Workflow Based System



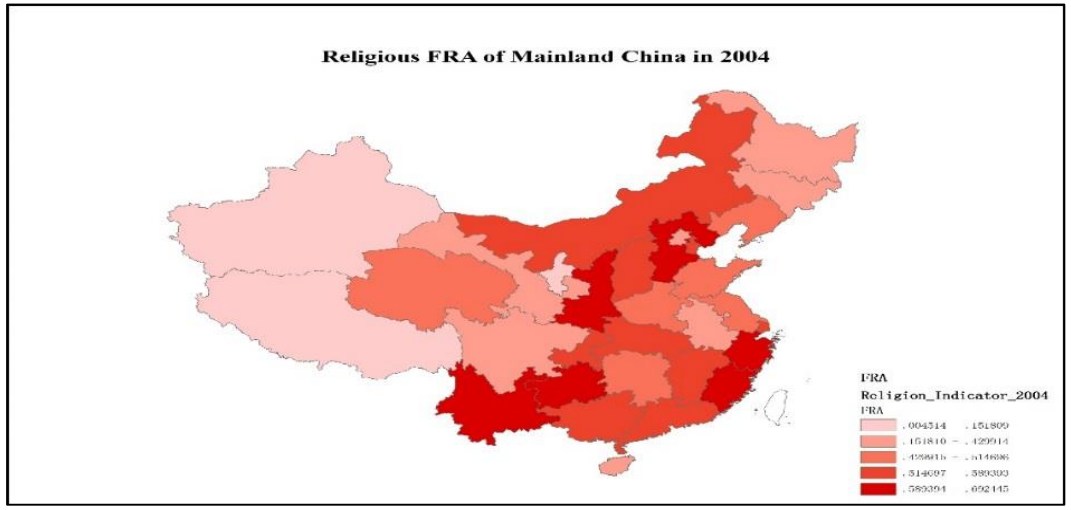


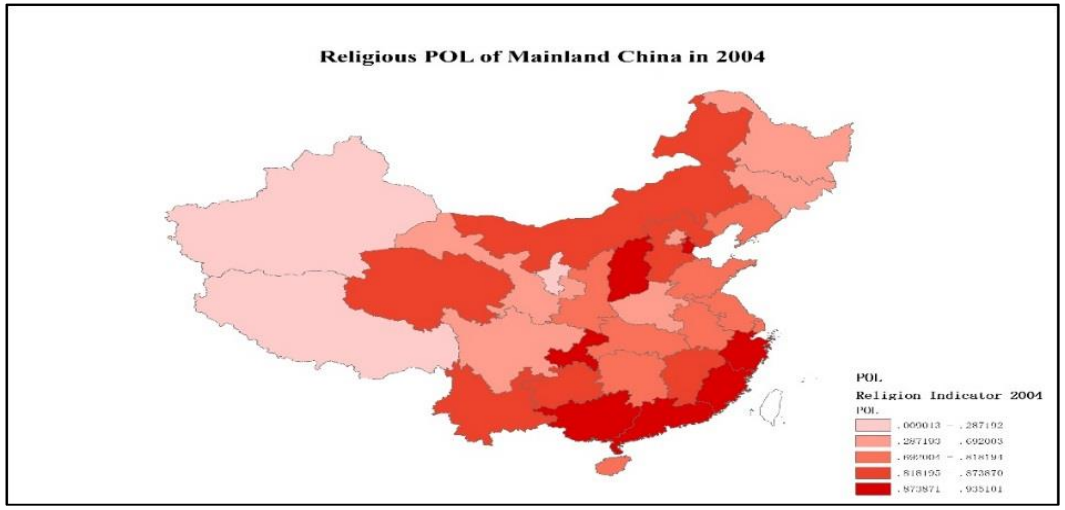
Answers Delivered

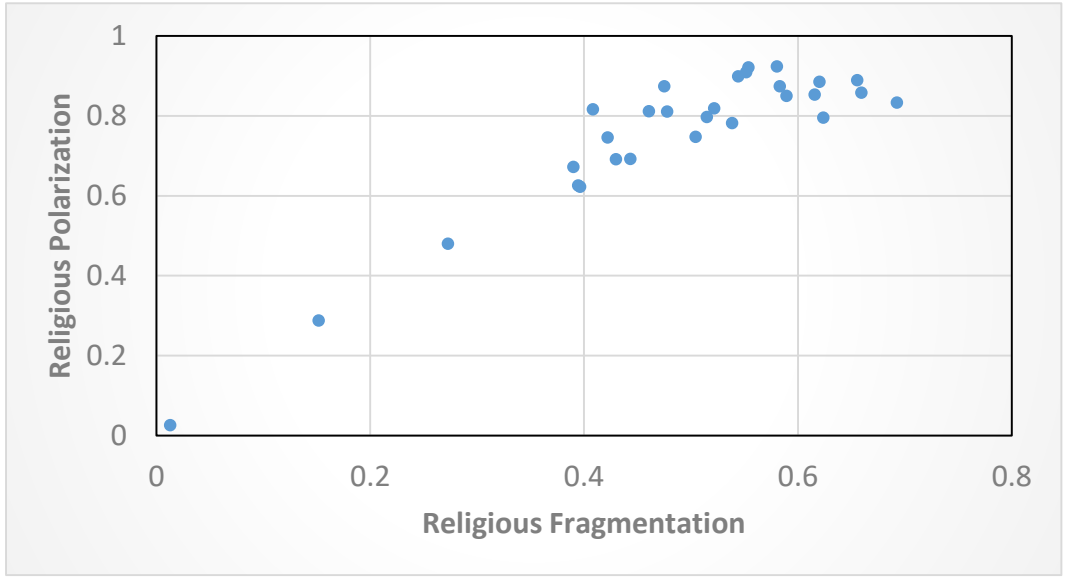
The Workflow



Data Analysis







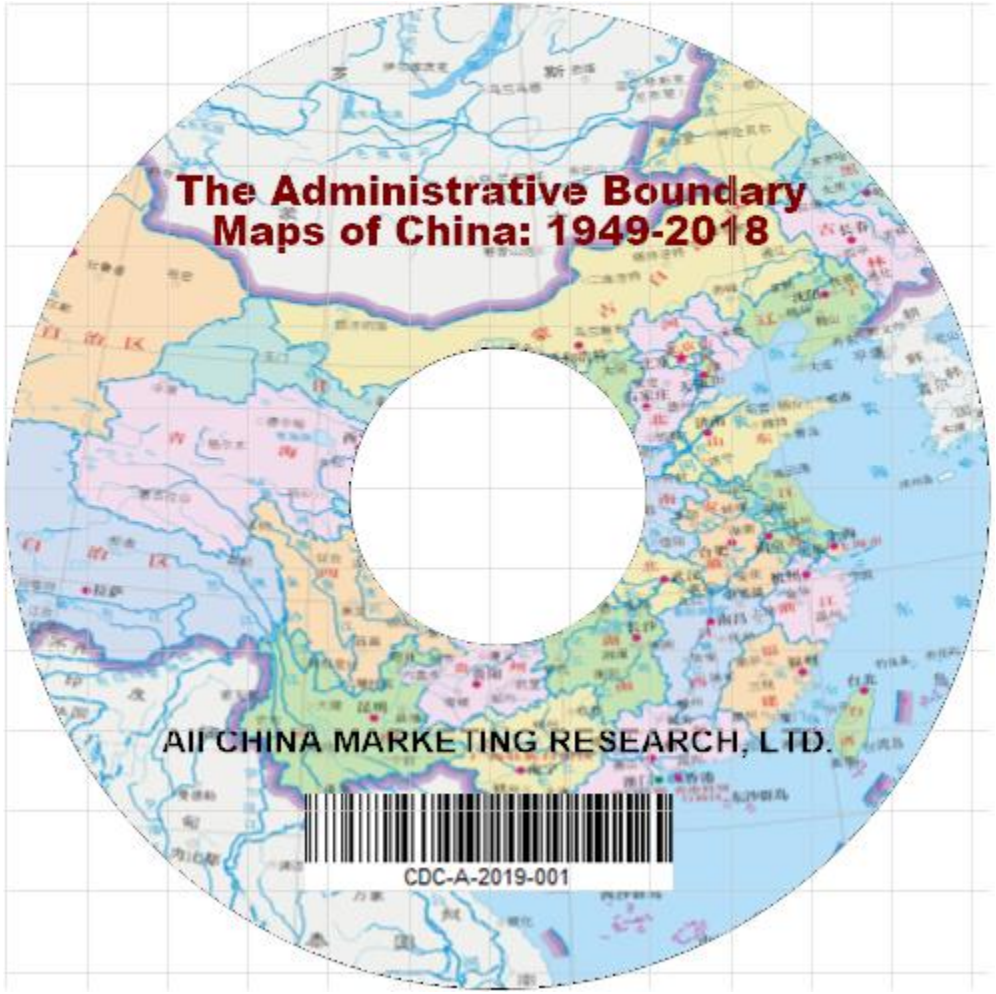
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Whole	East	Central	West	Whole	East	Central	West
frag	0.482***	0.550***	0.0433	-0.243				
	(4.31)	(3.89)	(0.44)	(-0.88)				
(n+g+δ)	-0.00281	-0.00185	-0.0169*	-0.0484**	-0.00286	-0.00271	-0.0178*	-0.0458**
	(-0.54)	(-0.36)	(-1.71)	(-3.58)	(-0.54)	(-0.51)	(-1.81)	(-3.37)
lnedu	-0.415***	0.221	0.213	-0.565***	-0.402***	0.202	0.203	-0.580***
	(-2.91)	(0.89)	(1.08)	(-3.63)	(-2.77)	(0.77)	(1.03)	(-3.77)
lncap	0.0198	0.227***	0.0638**	0.0990**	0.0275	0.235***	0.0734**	0.0919**
	(0.67)	(5.30)	(1.99)	(2.22)	(0.91)	(5.21)	(2.27)	(2.08)
lnpub	-0.119***	-0.281***	0.0840	-0.128**	-0.131***	-0.308***	0.0880	-0.108*
	(-2.84)	(-5.49)	(1.53)	(-2.00)	(-3.08)	(-5.81)	(1.60)	(-1.69)
pol					0.141	0.165	-0.0408	0.417*
					(1.52)	(1.29)	(-0.50)	(1.69)
_cons	6.967***	6.089***	6.469***	7.690***	7.067***	6.233***	6.570***	7.333***
	(24.91)	(13.18)	(15.20)	(23.02)	(24.19)	(12.04)	(15.32)	(20.27)
N	504	180	144	180	504	180	144	180
R^2	0.972	0.987	0.994	0.982	0.971	0.986	0.994	0.982
A-R^2	0.969	0.984	0.992	0.978	0.968	0.983	0.992	0.978
F Sta.	727.2	503.6	794.4	363.0	701.5	461.6	794.8	368.3

List of Documents for Data Case Study

Documents	Description	File
Case study report	Word or PDF file	Religion_study.docx
Case study presentation	Presentation file	Religion_case.pptx
Data	Religious data table in Excel	Data_religion.xlsx
	Statistical table in Excel	Data_statistics.xslx
	Province map in Shape file	Province_boundary.shp
Alteryx module	Alteryx workflow	Religion_case.yxmd
Technical report	Description of Alteryx workflow	Tech_report_religion.docx
Technical output	Output file generated by Alteryx workflow module	Output_religion.pdf

New Release:
The Administrative Boundary Maps of China of 2018

- Province boundary
- Prefecture city boundary
- County boundary



Conference Showcases:

The Association for Asia Studies (AAS) Annual Conference
Denver, CO, March 21-24, 2019
Association of American Geographers (AAG) Annual Conference
Washington, DC, April 4-6, 2019
Association of College Research Libraries (ACRL) Annual Conference
Cleveland, OH, April 10-12, 2019
Special Library Association (SLR) Annual Conference
Cleveland, OH, June 16-19, 2019

Questions?

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