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Socially Sustainable Urbanization in Post-Crisis China: PPGIS as a new channel for city governance

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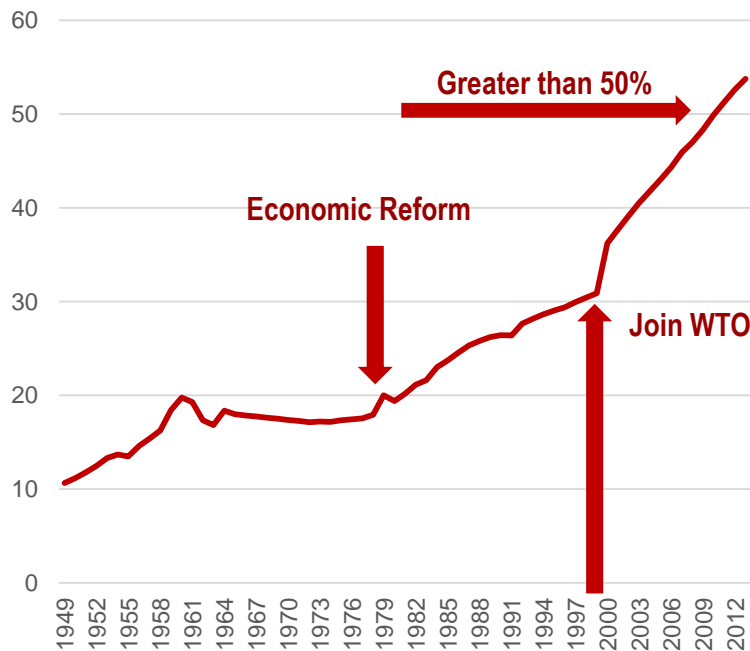
Outline

- **China's Neo-Urbanization**
 - What is Neo-Urbanization?
- **Engaging Urban Minorities**
 - Urban Minorities in Neo-Urbanization
- **PPGIS: New Channel to Integrate Urban Minorities**
 - What is PPGIS?
 - Case Studies of PPGIS
 - PPGIS Prospect



Rapid Urbanization in China

**China's Urbanization Rate
(1949-2013)**



Physical Ecosystem



Social Ecosystem

Neo-Urbanization

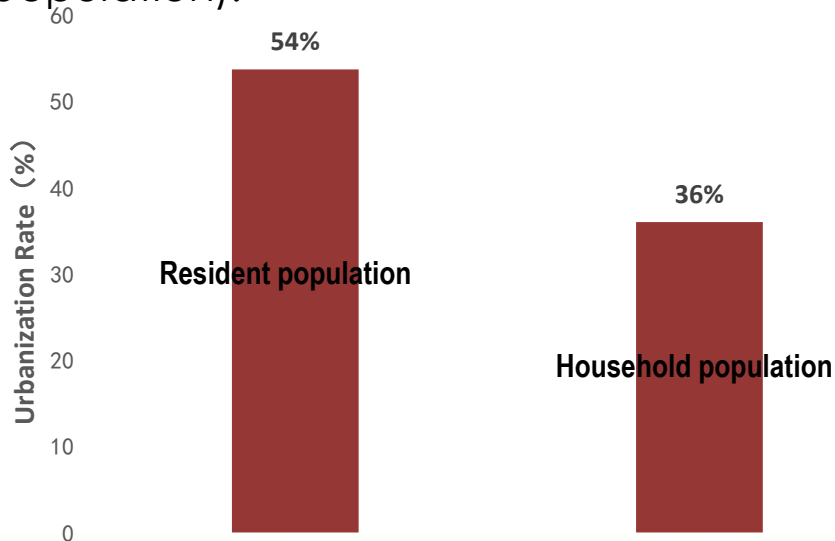
Neo-Urbanization is “People-Centered” Urbanization.

It emphasises 1) intensive natural resources utilization, 2) sustainable ecological landscapes, 3) smart rural-urban management, and 4) low-carbon consumption.

Five Objectives of Neo-Urbanization

Objective 1: Developing Household Population

In reaching 60% of the urbanization rate in 2020, 45% of the rate is the household population (45%-36%=100 million rural migrants becoming a household population).



Source: ifeng.com

Neo-Urbanization

Objective 2: Urban Development based on City Cluster

- Developing city clusters to attract economical and population growth;
- Increasing the globalization and international competition of Eastern city clusters;
- Making the Central and Western city clusters the growth centers for regional development.



Source: ifeng.com

Neo-Urbanization

Objective 3: Encouraging Intensive Urban Development Pattern

- Restrict controlling the urban construction land (100 m²per capita);
- Gradually increasing the built-up area's population density;
- Making “green” urban economic lives.

Objective 4: Improving accessibility for all urban population

- Making universal compulsory education, employment services, pension security, health care, and affordable housing accessible to the whole population;
- Improving the ecological environment and the drinking water quality;
- Protecting both the physical landscapes and the culture heritages.



Source: ifeng.com

Urban Communities public services infrastructure construction

Neo-Urbanization

Objective 5: Institutional Innovation as the Key for Urban Development

- Innovating Household Registration System (Hukou), Land Management System, Social Security System, Financial Finance and Tax System, etc.;
- Realizing **equal rights** among all urban population.



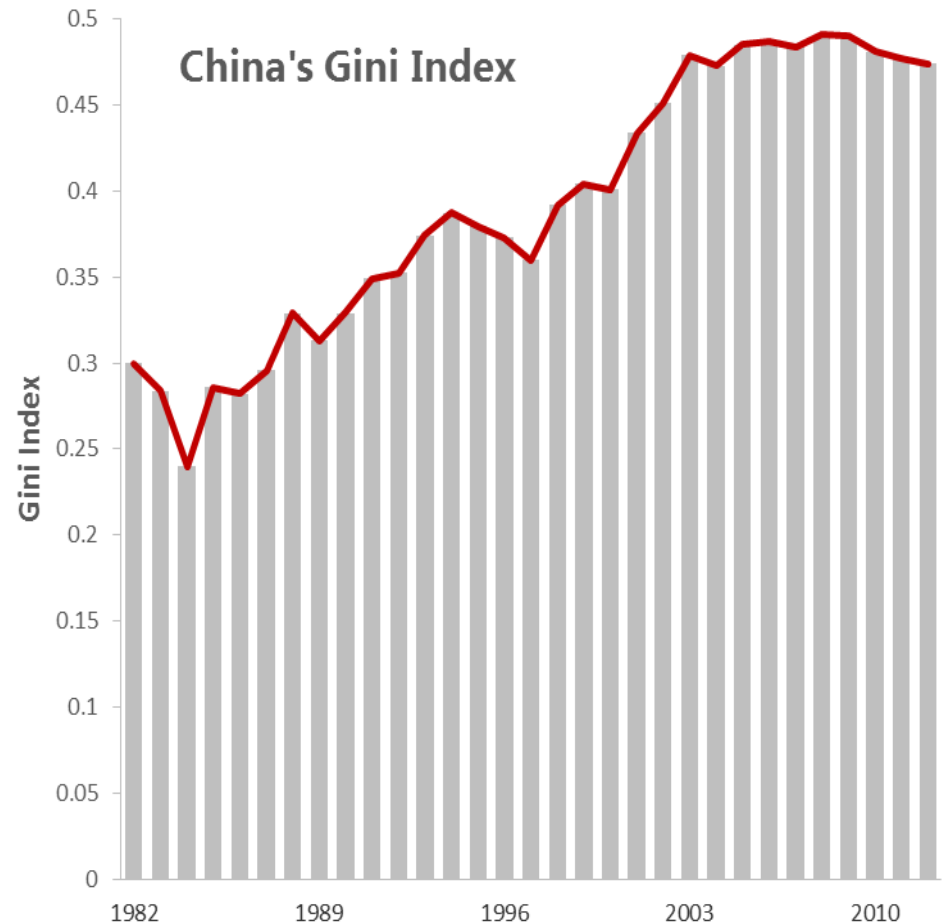
Source: ifeng.com

Challenges for Neo-Urbanization

- Imbalanced Urbanization



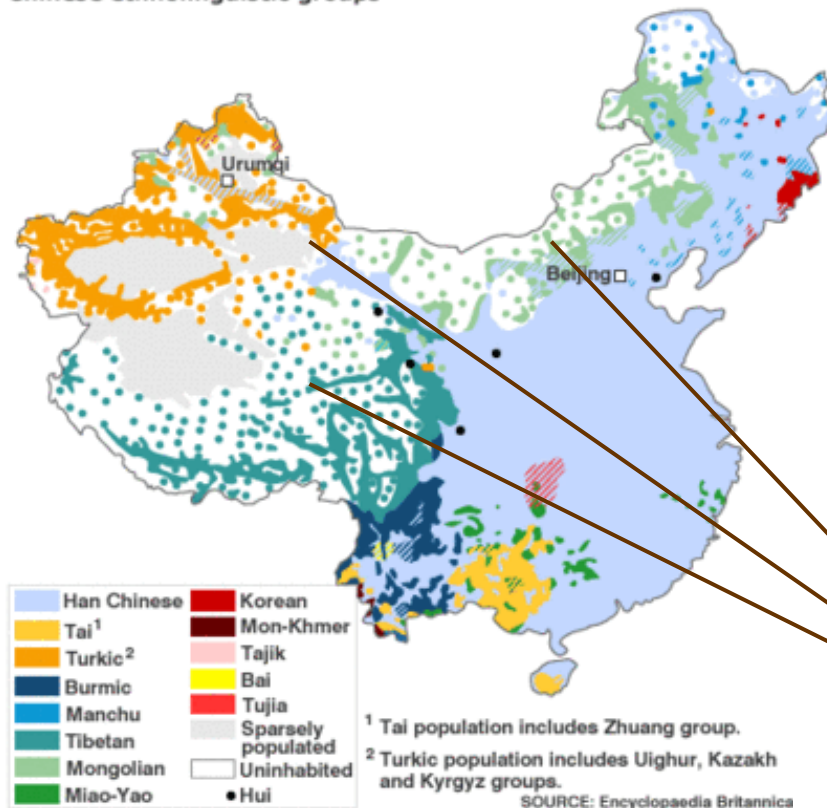
Marginalized populations need to be paid more attention!



Engaging Urban Minorities

Urban Minorities: One of the marginalized people

Chinese ethnolinguistic groups



Urbanization in Minority Cities

Respect their religious beliefs

Protect their minority cultures

新改变

Easier access to small cities than mega cities!

小城市随便进，大城市越来越难！



Engaging Urban Minorities

Urban Minorities: One of the marginalized people

“People-Centered” Urbanization

In Non-minority Cities:

How to strengthen the urban minorities integration in urbanization?



In Minority Cities:

How to protect and respect the minorities cultures in urbanization?

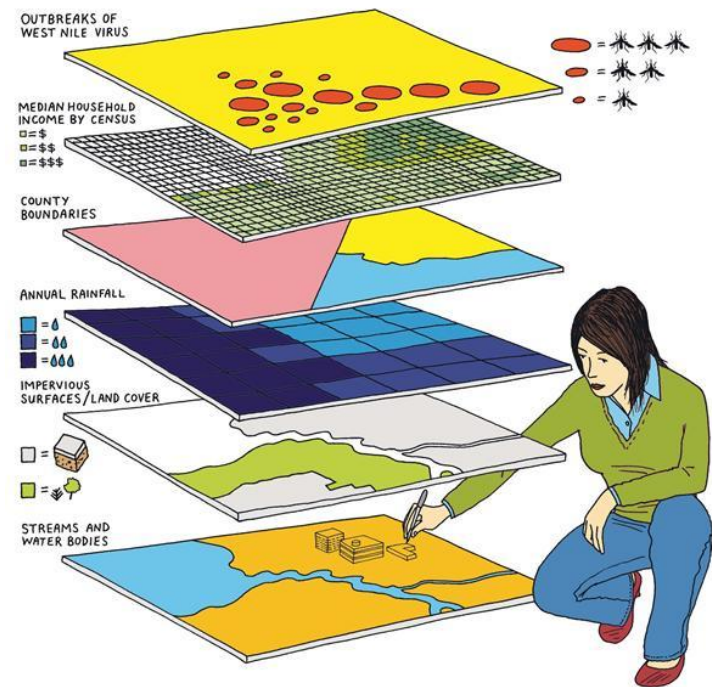
Allow the urban minorities to articulate their needs and be willing in Neo-Urbanization

PPGIS: Public Participation GIS

PPGIS:

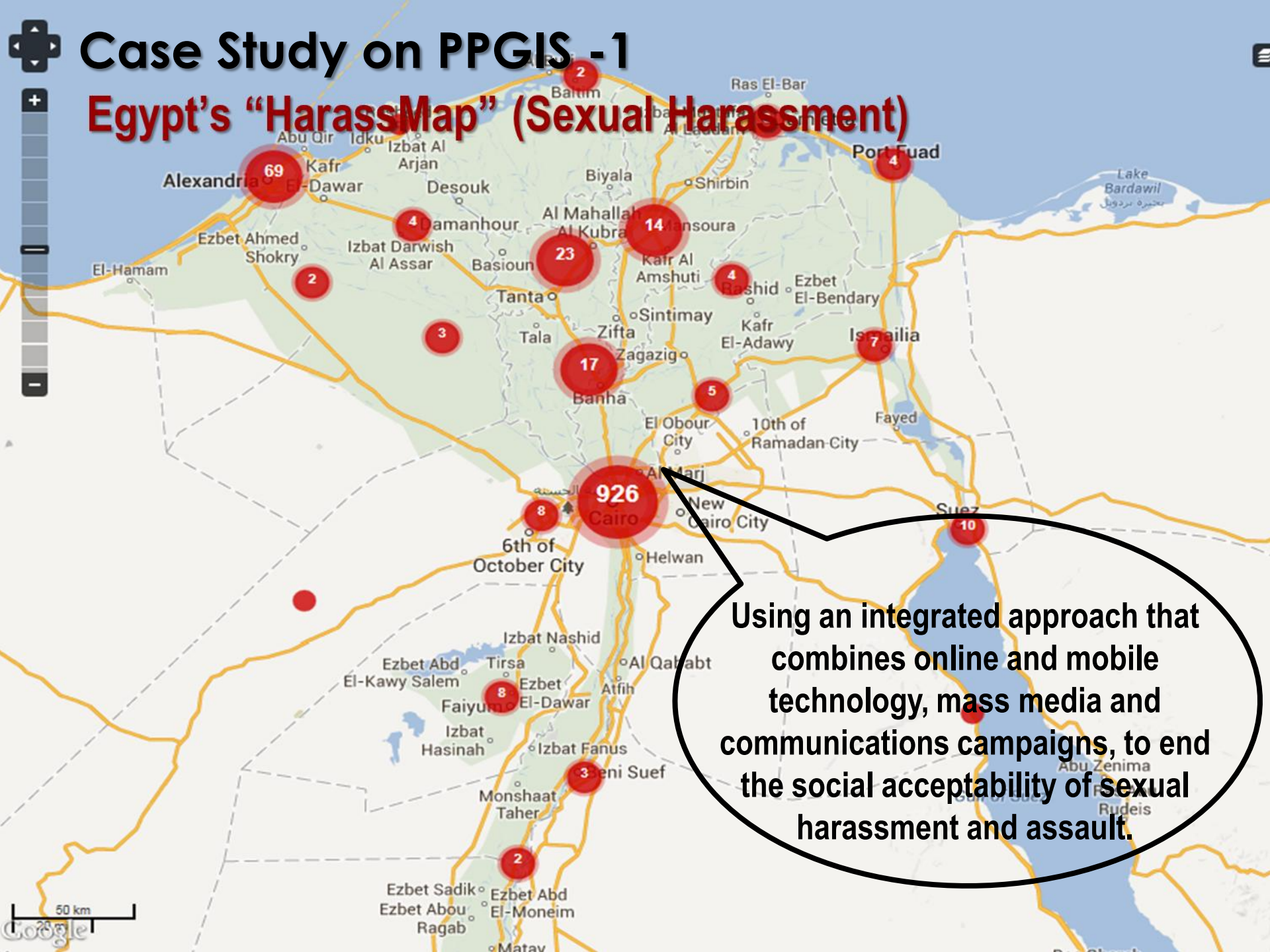
New Channel to Integrate Urban Minorities

- **PPGIS= Public Participation Geographic Information System**
- A special platform of e-participation
- An interdisciplinary community development tool
- Identifying loci of social phenomena
- Facilitating connections between citizens and their local government
- Allowing for empowerment and inclusion of marginalized population
- Dialogue is achieved through spatial and visual E-technology



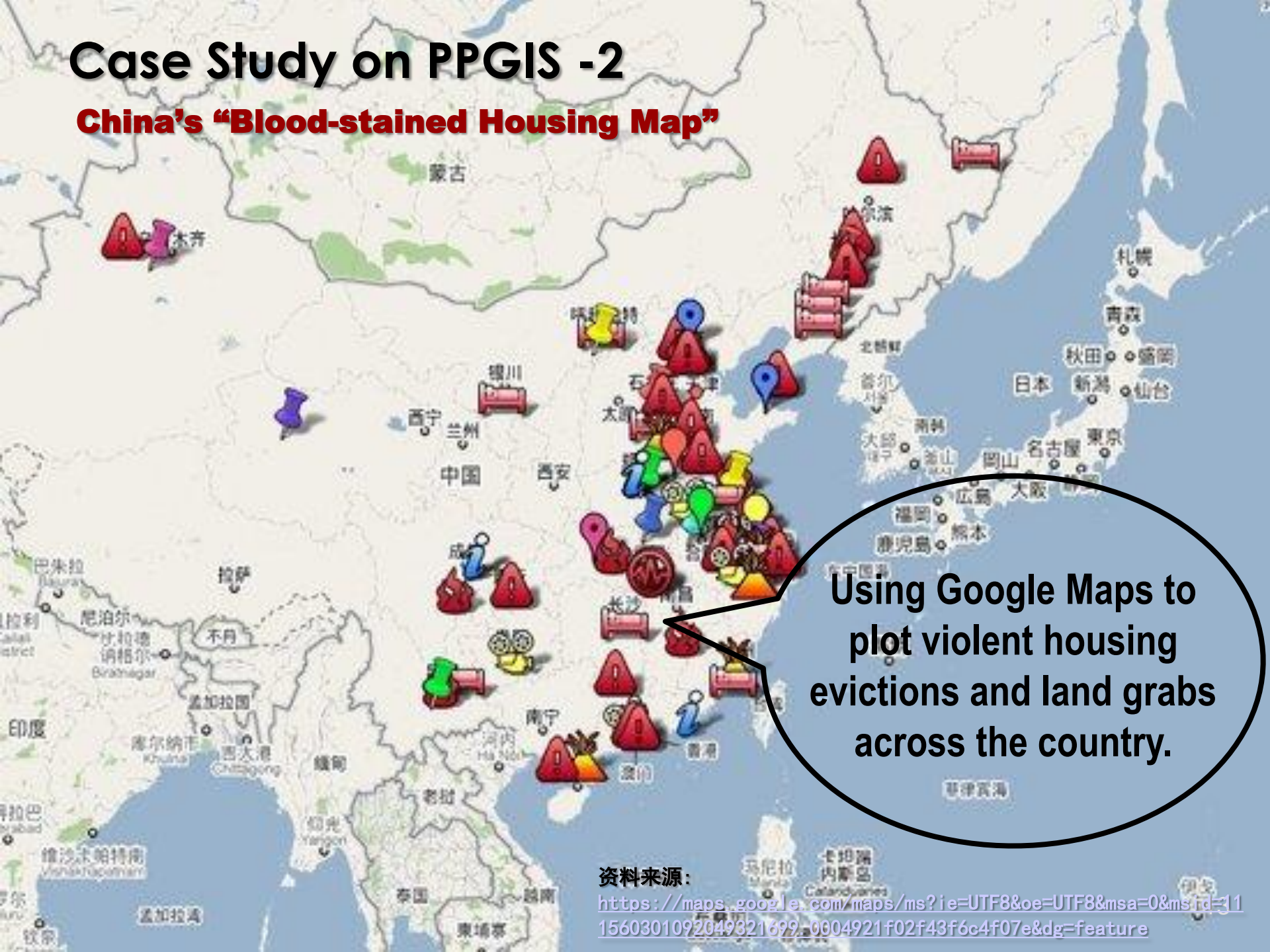
Case Study on PPGIS -1

Egypt's "HarassMap" (Sexual Harassment)



Case Study on PPGIS -2

China's "Blood-stained Housing Map"

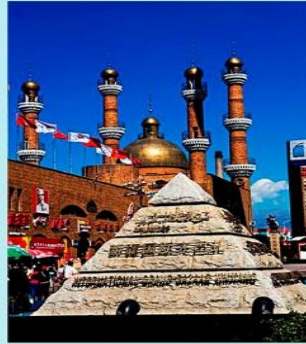


Using Google Maps to plot violent housing evictions and land grabs across the country.

资料来源:

<https://maps.google.com/maps/ms?ie=UTF8&oe=UTF8&msa=0&msid=311560301092049321699.0904921f02f43f6c4f07e&dg=feature>

IDRC Project on Sustainable Cities Sharing Knowledge on PPGIS: Engaging Urban Indigenous Minorities in Western China 2013 - 2015



For more information: <http://www.chinaeam.uottawa.ca/ppgis.html>

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PPGIS Prospect

Integrating PPGIS in Different Places

Developed Areas: Internet-based PPGIS

Developing Areas: Combination of field-participations and geographical information techniques



PPGIS will DEFINITELY be the most important channel to Engage Urban Minorities in China's Neo-Urbanization



Thanks!

Merci!

谢谢!

