

# Comments

## Spatial Analysis SDG

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# **Satellites' Data (Day time and Night time)**

1, Night time light: Expansion of Urban Area

Data from electric power company

**Business expansion, Sales, Human capital development**

2, Day time: Land utilization. Deforestation, Croplands

Land ownership (large land lord in developing countries)

**TAX data can be combined (Income disparities)**

Amount of crops (number of tracks in autumn)

3, Degree of Connectivity:

**Mobility of vehicles and mobility of people**

4, Least cost path tree networks

It will depend on infrastructure (railway, expressway, river)

# **Difference in Difference: Night Time Light**

## **(1) Economists: Production Function**

$$Y = F(\text{Capital}, \text{Labor})$$

Labor mobility can be captured by Satellite photo.

Capital mobility can not be measures by satellite.

## **(2) Residential Area: increase in consumption**

Households' income tax and sales tax revenues

## **(3) Endogeneity of explanatory variables**

such variables as “share of urban” and “area size”.

## **(4) R-squares are low. What are missing explanatory variables?**

# **Economic Corridors**

- 1, Ports, Airports, Railway stations, Express ways**
- 2, Electricity supply, water supply, sanitation**  
**Digital infrastructure (internet, broad band)**
- 3, Human capital development**
- 4, Reduction of income disparities**
- 5, network of infrastructures**
- 6, crime rate, safety**