

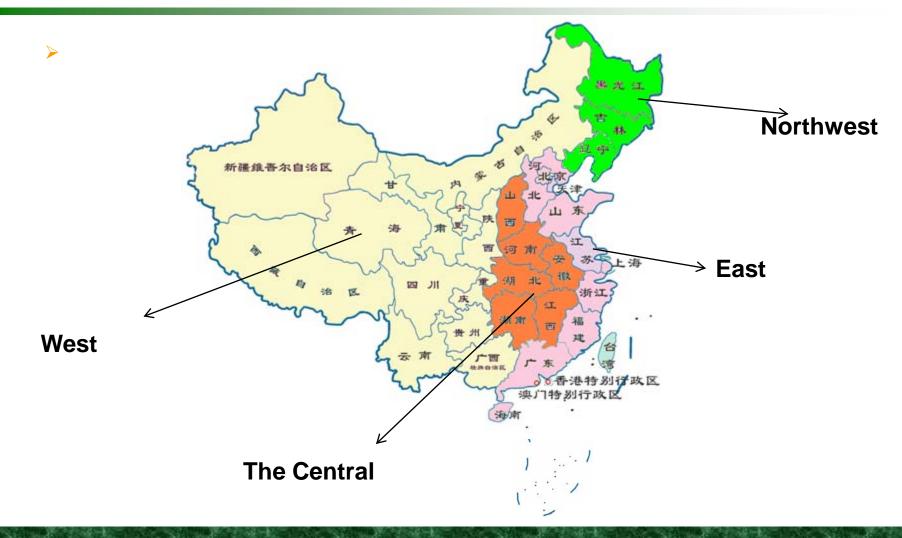


Outline

- Motivation and background
- Model Description
- Result of decomposition

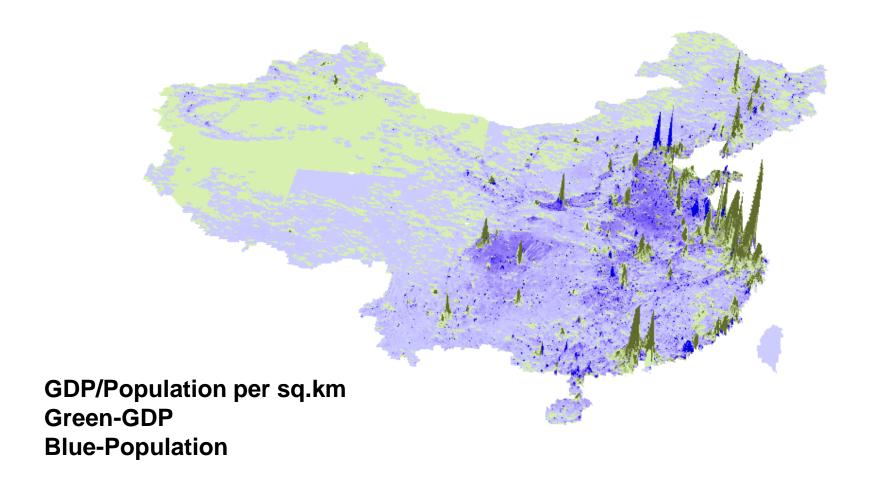


Distribution of China's Major Regions





Economic density





Distribution of GDP

Percentage of GDP of the East, the Central, the West ,and the Northeast in the country(%)

	1978	1980	1990	2000	2005	2007	2008	2009	2010
The East	44.1	44.1	45.9	52.8	54.5	55.2	54.3	53.8	53.0
The Central	21.8	22.5	22.1	20.2	18.8	19.0	19.3	19.3	19.7
The West	20.1	20.0	20.2	17.1	17.0	17.3	17.8	18.3	18.7
The Northeast	13.9	13.4	11.7	10.0	8.7	8.5	8.6	8.5	8.6



Regional Disparity

The ratio of GDP per capita in regions of the East, the Central, and the West in the country.

	1978	1980	1990	2000	2005	2007	2008	2009
East (the West=1)	1.93	1.87	1.92	2.42	2.49	2.48	2.29	2.23
East (the Central= 1)	1.56	1.51	1.64	1.89	2.09	2.19	1.97	2.05
Central (the West=1)	1.23	1.24	1.17	1.28	1.19	1.49	1.16	1.09



Decomposition of GDP - Methodology

- On the demand side, regional GDP can be composited into four driving sources:
 - Consumption: including Household and government
 - Investment
 - Export
 - Domestic outflow

Total Outflow



Decomposition of GDP - Methodology

 Using regional non-competition input-output tables and input-output model.

$$X = (I - A^{l})^{-1} \cdot Y$$
$$= (I - A^{l})^{-1} \cdot (C + I + EX + DO)$$

 Of which, C, I, EX, and DO respectively represents consumption, investment, export and domestic outflow; A^I refers to local intermediate input coefficient



Decomposition of GDP - Methodology

$$GDP = v \cdot X$$

$$GDP = v \cdot (I - A^{l})^{-1} \cdot (C + I + EX + DO)$$

$$= v \cdot (I - A^{l})^{-1} \cdot C \qquad \qquad \text{Consumption}$$

$$+ v \cdot (I - A^{l})^{-1} \cdot I \qquad \qquad \text{Investment}$$

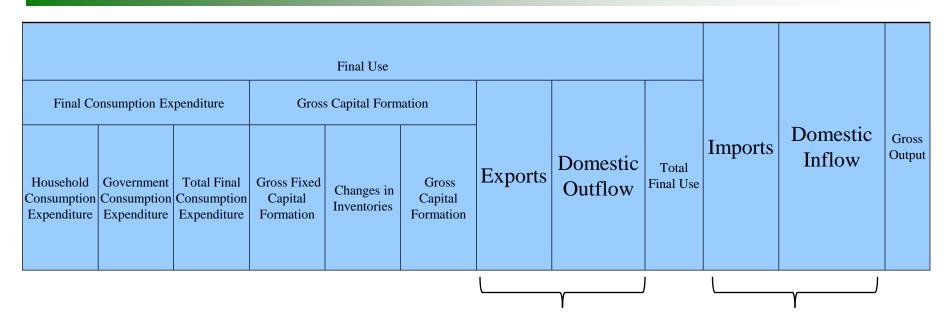
$$+ v \cdot (I - A^{l})^{-1} \cdot EX \qquad \qquad \text{Export}$$

$$+ v \cdot (I - A^{l})^{-1} \cdot DO \qquad \qquad \text{Domestic Outflow}$$

Of which, v is the vector of ratio of value added.



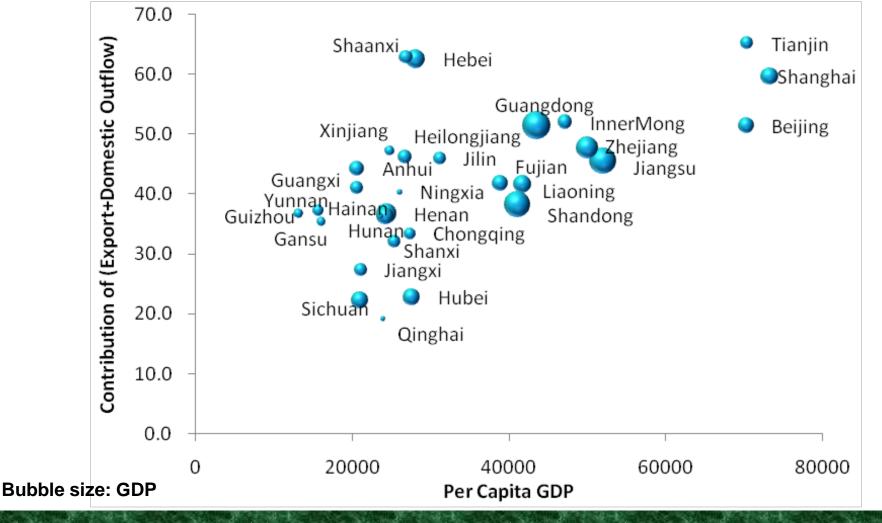
Structure of regional IO table



Total Outflow

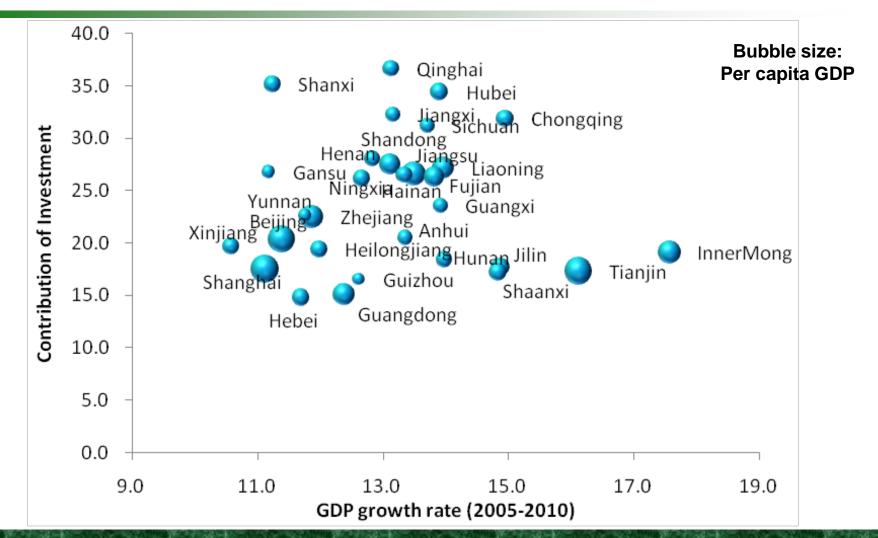
Total Inflow

Contribution of Export plus Domestic outflow (2007)



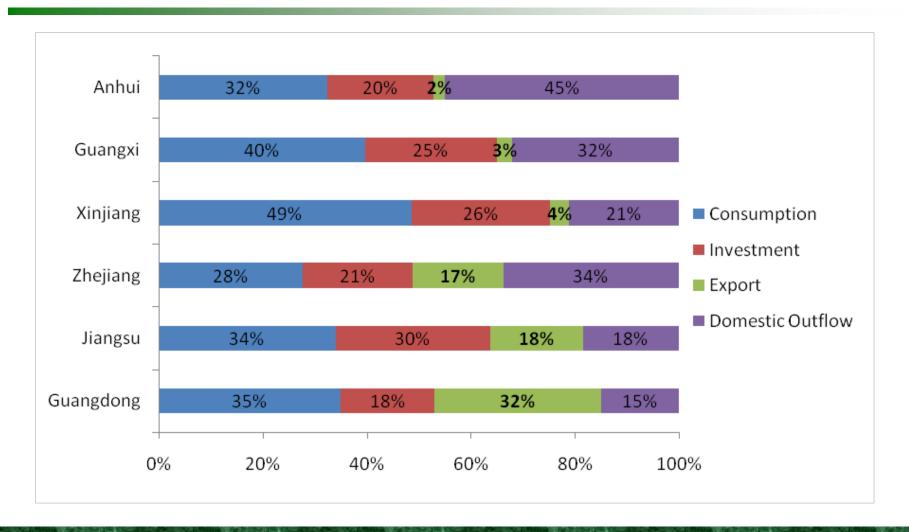


Investment and Growth



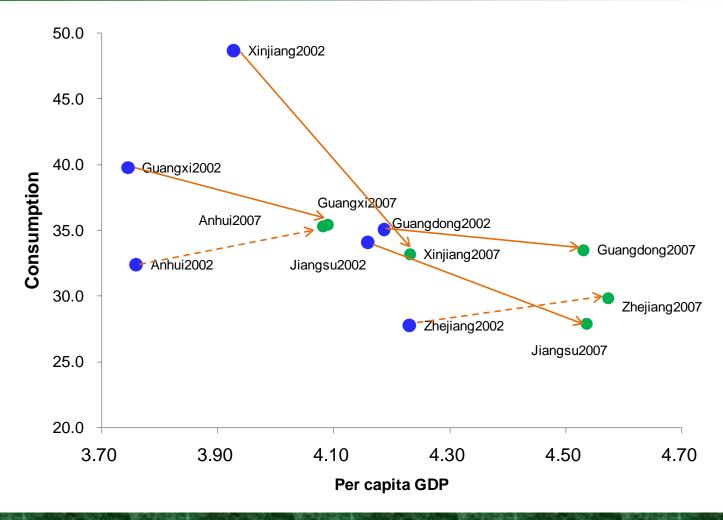


Result of decomposition (2002)

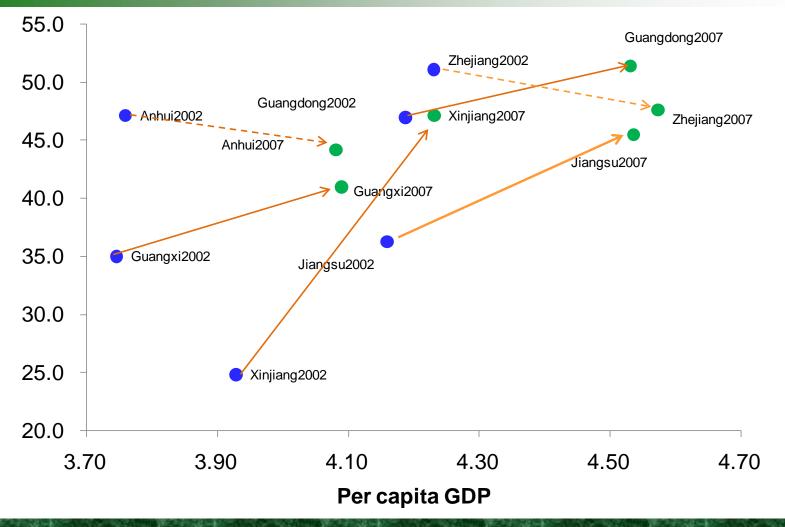




Change of Contribution of consumption



Change of Contribution of Export +Domestic outflow



Thanks for your attention!