Discussion of "Competition of Spatially Differentiated Firms: An Estimator with an Application to Cement"

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Spatial Markets

Market Segmentation is di cult problem with overlapping markets.

Neighbour's Neighbour problem shows up, and soon the entire country is in the state space.

Spatial Segmentation is a big issue in Cement, and other bulk

Spatial Price Discrimination

Global Model of Shipments: each plant ships a certain fraction of cement to each market.

What makes this model different is the focus on spatial price discrimination: p_{jn} instead of p_j .

Huge Increase in the number of prices in this model J N versus J.

Fixed Point of the FOC with respect to price are solvable because of:

- { Logit shocks nij to smooth the demand system.
- { High performance solvers.

Not clear what the di erence in the predictions of the model look like between the spatial price discrimination versus no discrimination.

Demand Estimates

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Improvement on elasticity over Ryan (2009):
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Aggregate: '' = 0.16 versus '' = 2.96.

Firm Level: $i_i = 5.70$.

Future Work

Hard to take this to the dynamics: the state space became the con guration of the entire southwest.

Look at issues at how we deal with spatial price discrimination:

- { Welfare of price discrimination versus no spatial discrimination.
- { Basing point controversy: price from a common location la Steel in the 1950s.

Issue of the role of international competition in cement.