decentialise decision power. In techn. nomogeneous industries decision power win be centralised.

▶ Knowledge Capital (Markusen, 2002): Because of moral hazard of agents, the higher the amount of knowledge capital of a firm, the likelier integration will be.

- ▶ Incomplete Contracts (Grossman and Hart, 1986): Residual rights should be owned by firm for which investment is more crucial to avoid ex-ante underinvestment. K intensive firms should be more likely to be integrated.
- ► Factor Price Differences (Helpman and Krugman, 1985): The production of an intermediate good will happen in the region where the input factor, which is intensively used, is relatively abundant.

Research Question: What are the determinants of the organisational structure of UK firms?

The Data

- ▶ Business Structure Database (BSD): Includes all firms and local units with sig. activity within UK. Contains information about location, employment, turnover and SIC03. After cleaning 1.6m man., 5.5m trad. and 4.8m non-trad. services observations are left.
- ► Annual Survey of Hours and Earnings (ASHE): Contains data for average wages per region and industry.
- ▶ Business expenditures on R&D (BERD): Captures 80% of R&D conducted in the UK. Contains external, in-house and scientific staff information per firm.
- ▶ Input-Output tables: Necessary to calculate degree of vertical integration:
 - First for local units: $vib_{lk} = \sum_{j=1}^R a_{ij} \times I_{kj}$ $a_{ij} \dots$ % of how many goods are demanded by a local unit l of industry i from a supplying industries j $I_{kj} \dots$ dummy vector which is 1 if company k owns another local unit in a sector j or 0 otherwise.
 - Second for firms: $\overline{vib_k} = \frac{\sum_{l=1}^n vib_{lk}}{n}$