

Analytical Differences in the Economics of Geography: *The case of the multinational firm*

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*This presentation is based on a paper co-authored
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Outline

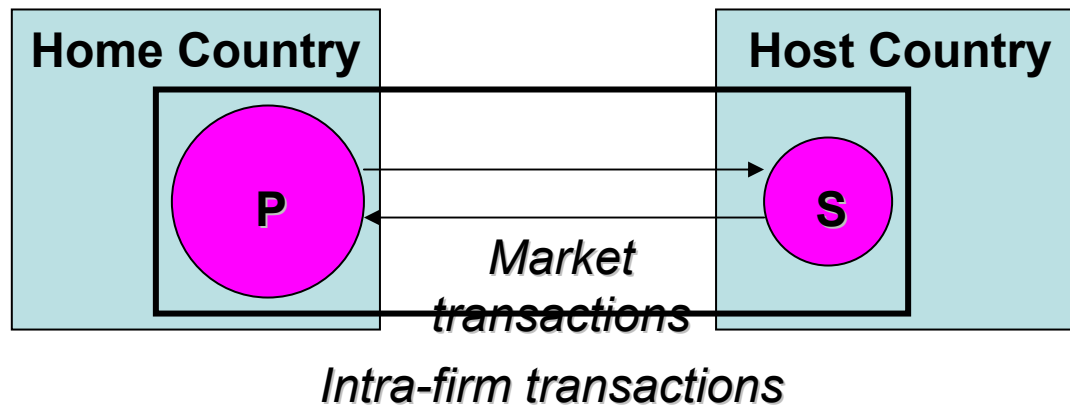
- Approaches to the multinational firm
 - the international business approach
 - geography in international business
 - firms in economic geography
- The MNE knowledge network
 - transfer vs. integration
- Problems with the recent clusters literature
- Implications and conclusions

Need for integration of theoretical approaches

- Traditional approaches are aspatial
 - International business
 - International trade theory
- Economic geography and regional science approaches ignore the issues of firm organization
- Much of the recent work on clusters is problematic

The international business approach (Reading school)

- Multinational activities are driven by:
 - Ownership advantages (industrial economics)
 - Location advantages (economic geography)
 - Internalization advantages

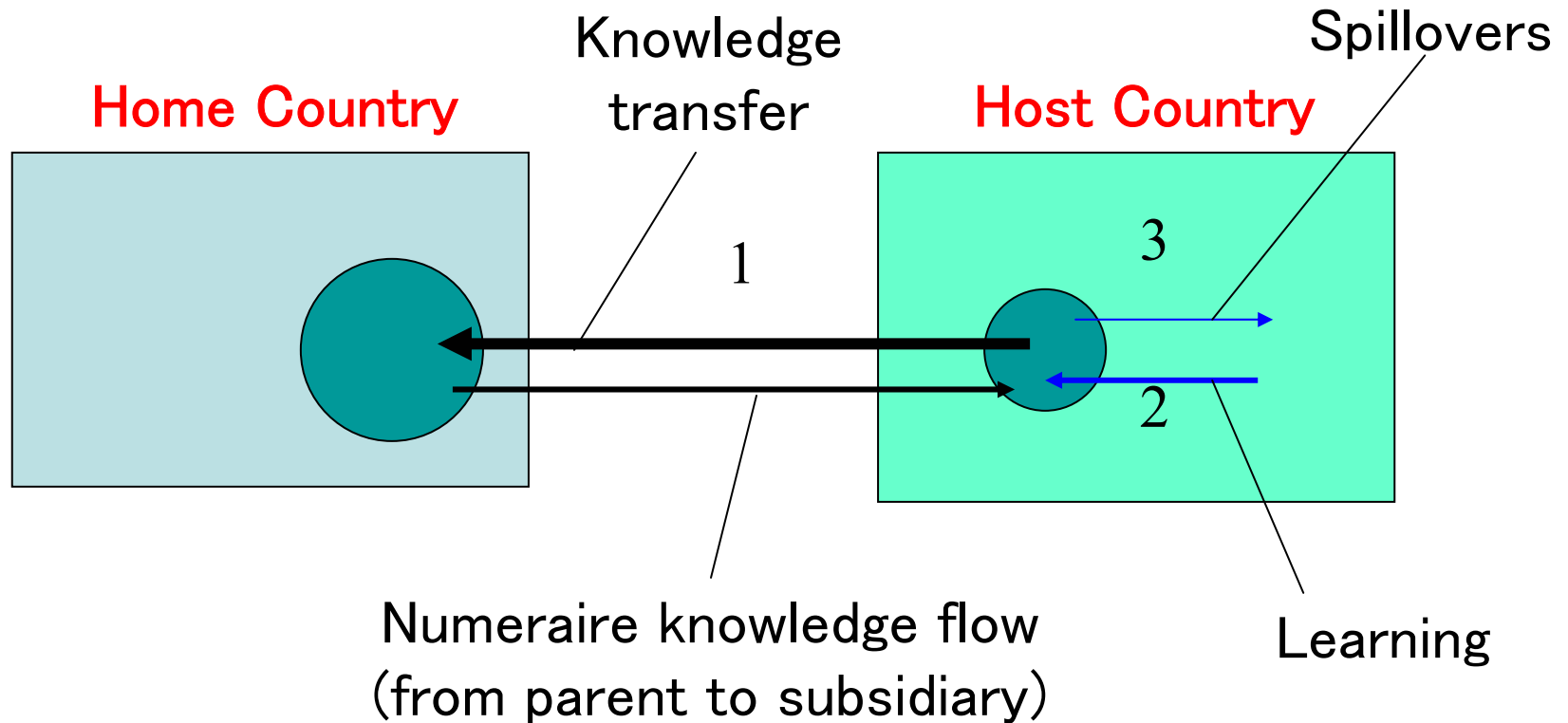


Geography in the international business approach

- The product cycle model
 - Home country activities – Technology frontier
 - Host (foreign) country activities – Standardized and obsolescent activities
- The hierarchical ordering implied by this model is outmoded
 - MNEs can no longer depend on their home country's innovation system to remain competitive
 - Host locations are sources of valuable knowledge
- Variety of subsidiary mandates
 - Home base exploiting vs. home base augmenting



MNE competence-creating knowledge flows*

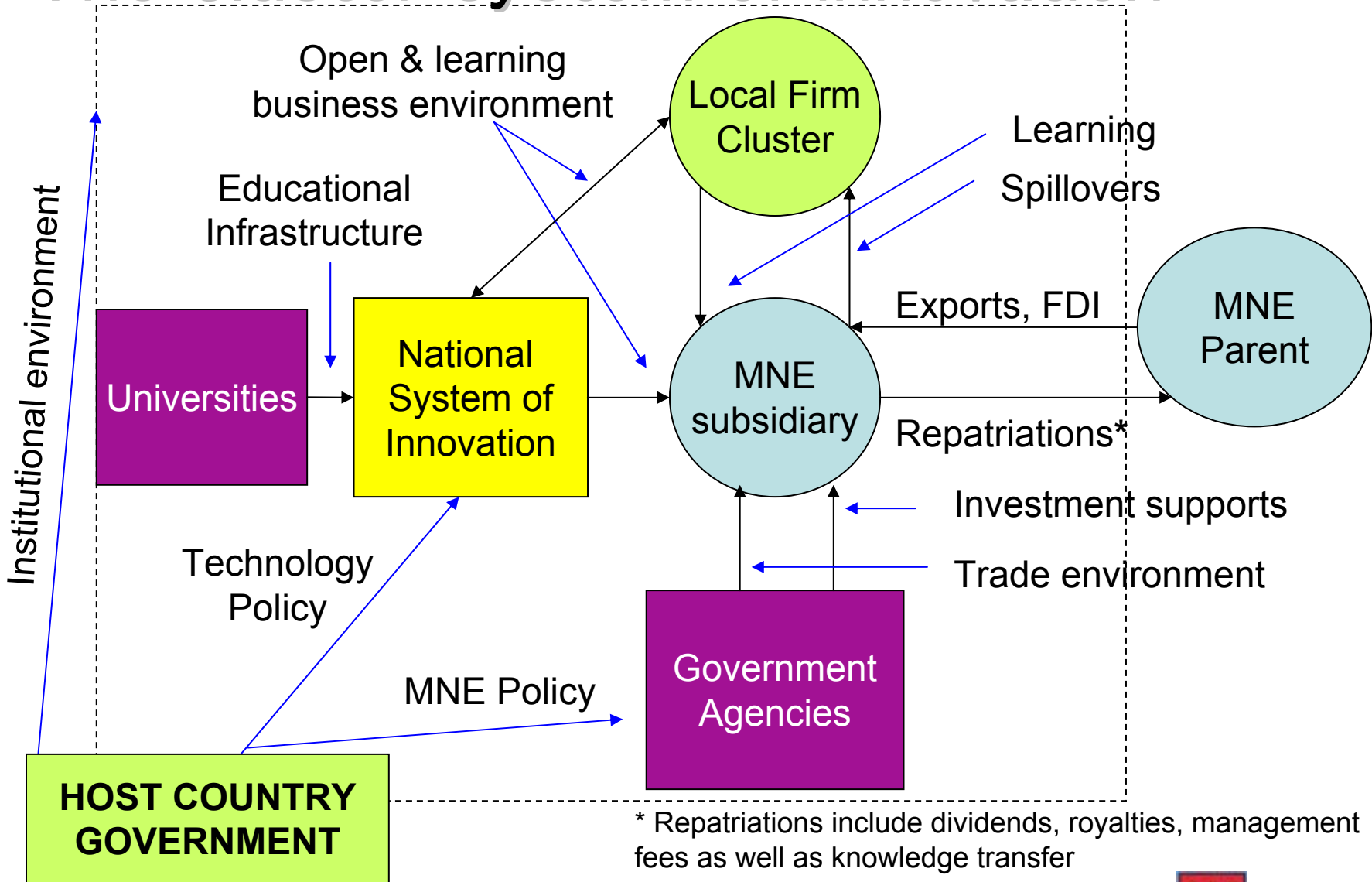


* From Cantwell and Mudambi, 2004

Firms in economic geography & regional science

- Firms are modeled as ‘points in space’
- Reconfiguration may be more important than relocation
 - Unchanged location profiles with substantial changes in reallocation of activities within the firm
- Core–periphery model is a variant of the product cycle at the sub–national level
 - Advanced activities’ location – resource requirements
 - Standardized activities’ location – cost
 - Location optimality based on unitary view of firm organization

The cluster system of innovation

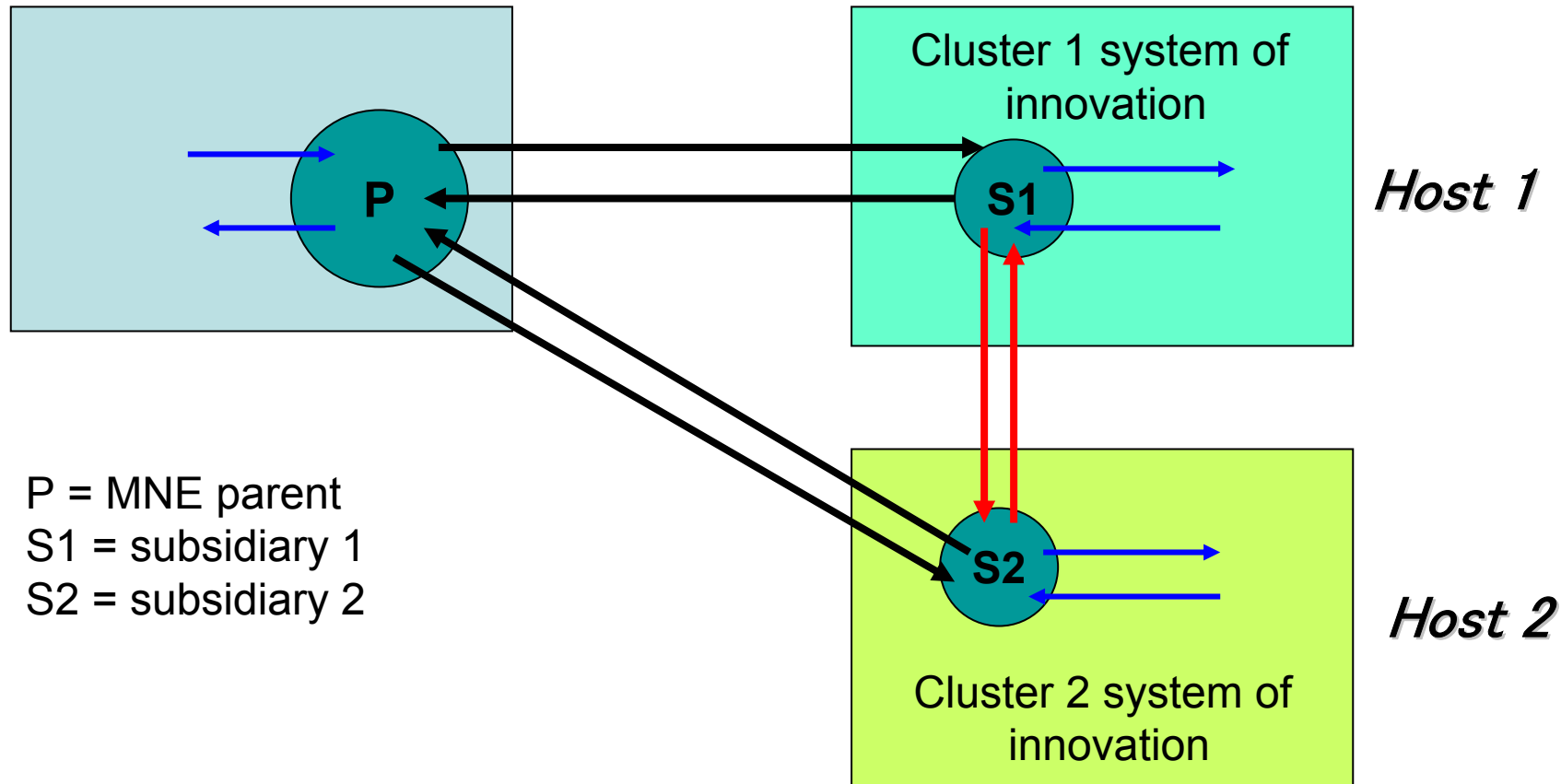


The Uppsala School – 1

- Dialogue amongst regional scientists and management scholars
- Treats both MNEs and clusters as complex evolving entities
- Gives a central role to knowledge as the basis for both MNEs and clusters

The MNE knowledge network – transfer

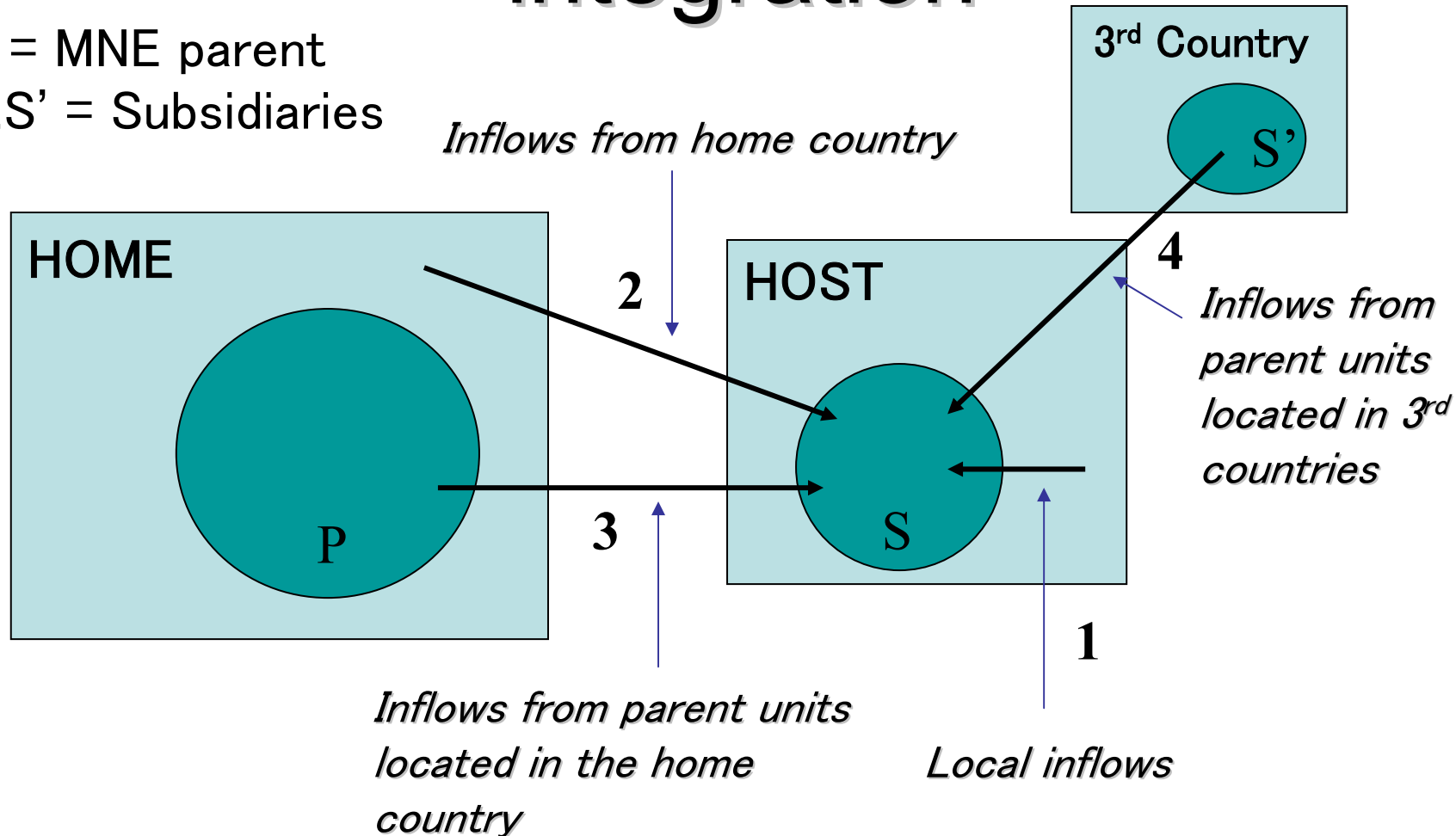
Home Country



P = MNE parent
S1 = subsidiary 1
S2 = subsidiary 2

The MNE knowledge network – integration

P = MNE parent
S,S' = Subsidiaries



The Uppsala School – 2

- Traditional international business mainly focuses on *knowledge transfer*
- The Uppsala school's primary focus is on *knowledge integration*
- A complete analysis requires incorporating both knowledge transfer and knowledge integration

Recent clusters literature

- Location in clusters is a source of competitive advantage for firms (Porter, 1998)
- However:
 - The geographical dimension over which this advantage operates is not specified
 - Agglomerations can appear even with no interactions amongst firms
 - E.g., market driven agglomeration
 - Cluster location generates both costs and benefits
 - Which firms should locate in clusters?

A typology of clusters

<i>Characteristics</i>	Pure Agglomeration	Industrial Complex	Social Network
<i>Firm Size</i>	Atomistic	Some firms are large	Variable
<i>Inter-firm relations</i>	Fragmented, unstable	Stable trading	Trust, loyalty Joint lobbying, JVs Non-opportunistic
<i>Membership</i>	Open	Closed	Partially open
<i>Access</i>	Rental payments Location necessary	Internal investment Location necessary	History, experience Location necessary but not sufficient
<i>Space outcomes</i>	Rent appreciation	No effect on rents	Partial rental capitalization
<i>Notion of space</i>	Urban	Local, but not urban	Local but not urban
<i>Dynamics</i>	Stochastic	Planned	Mixed
<i>Examples</i>	Competitive urban economy	Steel, chemicals	New industrial areas

Knowledge flows

- Public good vs. private good aspects
- Public good aspects dominate for competitive firms
- Private good aspects dominate for oligopolistic firms
- Large MNEs do not benefit for either pure agglomeration or social network clusters
 - Adverse selection

Implications

- Co-location is most commonly observed in competitive industries
- There is empirical evidence that
 - large MNEs *do not* co-locate their R&D with that of their competitive rivals
 - when they do co-locate, it is designed to minimize spillovers
 - Locating non-core R&D activities, ‘listening posts’
 - Industrial complex arrangements – planned processes

Conclusions

- Knowledge is increasingly seen as the basis for MNE existence and growth
- Clusters are a key source of knowledge
 - Geography of MNE knowledge sourcing
- Policy makers view clusters and MNE FDI positively
- An understanding of MNE motivations is crucial in developing appropriate policy