Trends in Real Estate Research

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Overview

- Real estate from an economics/ finance/business perspective
- Brief History Lesson real estate research has been a success story
- What are likely to be the topics for future research?

A Definition

Real Estate - a heterogeneous, illiquid (thinly traded), fixed-inspace (risky) asset with a unique set of institutional characteristics.

What Makes Real Estate Interesting?

- Unique Data and Modeling issues of heterogeneous asset
- The Spatial Component
- Illiquid and thinly-traded
- Unique Risk Return Tradeoff
- Institutional Environment Property laws and tax rules are examples

Brief History Lesson

- Roots of Real Estate Research
 - A. Urban (Land) Economics -Spatial Component
 - B. Financial Economics -Valuation of Risky Assets

Research over the past 25 years

- Hedonic Pricing Models
- Risk-Return Valuation Models
- Securitization Debt and Equity
- Financial Engineering Options and Futures (particularly mortgage pricing)
- Data Availability GIS Technology

From Theory to Practice: Success Stories

- Price/Return Indices
- Data/Information Firms
- Globalization of Mortgage
 Securities and REITs
- Global Real Estate Portfolios
- Wide spectrum of financial claims

Exciting Time for Real Estate Research

- Data Availability
- Wide array of journals/conferences to publish/present research
- Econometric/Statistical Tools
- Theoretical Developments
- Rise of Capitalism leads to property rights/markets

Unresolved Research Issues

- Pricing the spatial effects
- Managing risks in real estate investments
- Securitization of equity claims
- Comparative analysis of property markets

Pricing the Spatial Effects

- Availability of Spatially Coded Data
- The problem: How to analyze data that are spatially associated.
- Developments in Spatial Statistics
- Spatial Econometric Tools/Software
- Example: Spatial/Temporal "Cap"
 Rates

Managing Risks in Real Estate Investments

From a finance perspective:

Diversification

Insurance Contracts

Hedging/Options

Managing Risks: Diversification

- Diversification the key benefit of real estate investing
- Global diversification what are the drivers of risk-return?
- Direct versus Public Markets in Global Real Estate Investing

Managing Risks: Insurance

- Recent Developments in Insurance Example: Environmental Risks
- Can we develop other new contracts?

Example: Tenant Default

Managing Risks: Hedging/Options

 Who is optimal risk-bearer in real estate investments?

Example: Lease Rental Changes

Risk Management Tools – A major issue for future research

Securitization of Equity Claims

- The problem? Separation of ownership and management.
- Why has market been relatively unsuccessful at real estate equity securitization?
- Is there something about real estate equity claims that limits securitization?
- Is the REIT structure the solution?
- Public Market Penetration How much?

Globalization Trends

- Comparative Property Studies
 Examples: Leases, Housing Markets
- Developing Property Markets
 Example: Title assurance
- Global Property Funds

Summary

Exciting time for real estate research since the availability of data and tools makes it easier to model and analyze the fundamental characteristics of real estate.