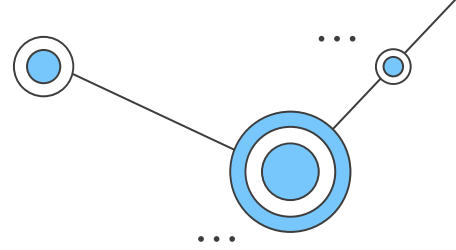


Effect of HDB Resale Portal on Agents

Lim Kang Heng

Govtech Case Study - Section 1 (Question 1)

Bottom Line Up Front



Study Context

The HDB Resale Portal was launched in Jan 2018 to streamline resale flat transactions between buyers and sellers → **How has the role of property agents changed since its' inception?**

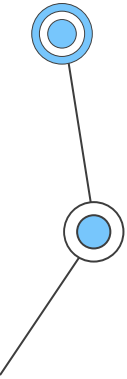
Key Investigation: Effects on resale buyer-side and seller-side agents

Hypothesis: As the resale portal can simplify a buyer's journey (e.g., flat search, eligibility checks), buyers may be more willing to transact without an agent. While sellers may continue to rely on agents for pricing, marketing and negotiation → **Hypothesise relatively larger decline in buy-side transactions**

Study Approach: Difference-in-Differences (DID)

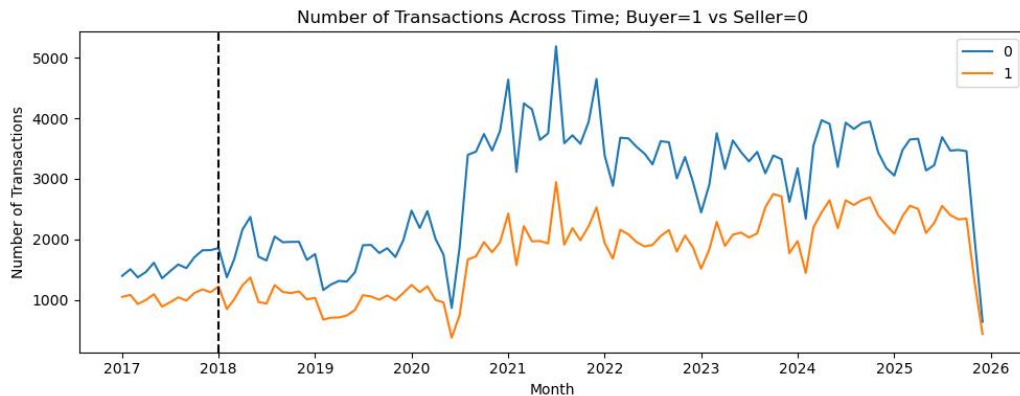
Key Findings:

- Causal Impact: DID estimates show that the HDB resale portal led to significant decline in buy-side agent activities, handling fewer cases on average after 2018.
- Market Adaptation: While buy-side activity initially declined, the share of buy-side agent activities partially recovered after 2020, suggesting that agents adapted their roles and value propositions amid a strong resale market recovery.



Impact of HDB Resale Portal on Buy Vs. Sell-side Transactions

1. Visualise Number of Buyer & Sell-side Transactions



Key Observations

Before Launch - both buy and sell-side activities have a **stable gap**, with sell-side activity being consistently higher.

After Launch - Gap between buy and sell-side activities generally **widened**, with sell-side activities increasing much more strongly.

2. Formulate an ordinary least squares (OLS) equation:

$$\text{Transaction Count} \sim \text{Post} + \text{Buyer} + \text{Post:Buyer} + \text{Month} + \text{Time} + \text{Intercept}$$

Signal for Buyer / Seller Transactions

Control for Seasonality & Time Trends

Signal for before / after launch of HDB resale portal

Measures impact of the HDB resale portal on buyer-side agents

Impact of HDB Resale Portal on Buy Vs. Sell-side Transactions

3. Extract Weights*:

Term	Weights / Value	Interpretation
Intercept	1,487	Before portal launch, sell-side agents handled about 1,487 cases per month, on average
Buyer	- 514	Before portal launch, buy-side agents handled about 514 fewer cases per month than sell-side agents (973 cases), on average
Post	405	After portal launch, sell-side agents handled about 405 more cases per month than before the launch, on average
Post:Buyer	- 642	After portal launch, buy-side agents handled about 642 fewer cases per month than sell-side agents, on average

4. Key Findings from the DiD Study:

- Overall agent-handled resale activity continued to grow post-2018.
- There is reduced reliance on buy-side property agents, suggesting a structural shift toward self-directed transactions from buyers.

Changing Reliance on Buy-side Agents Over Time

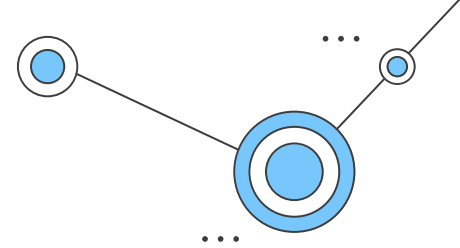
$$\text{Buy-side Share} = \frac{\text{Buy-side Transactions}}{\text{Buy-side Transactions} + \text{Sell-side Transactions}}$$



Key Findings:

- Agents shifted toward seller representation initially.
- Over time (after 2020), agents repositioned buyer services (i.e., market adaptation) amidst strong demand for HDB resale post-COVID ([HDB resale article](#)).

Study Limitations, Future Considerations & Conclusion



1. Income Impact

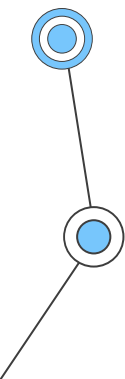
Agent activity could be linked to transaction values or commissions to examine income impacts.

2. Estate Transactions

Study heterogeneity across towns (maturity, distance from city center) to identify where the portal has the strongest effects.

3. External shocks post-2018

Other confounding shocks may affect transaction activities such as COVID-19 policies, interest rate adjustments and housing policy changes.



Concluding Remarks - This study illustrates how digital public services can improve consumer efficiency while reshaping — rather than displacing — professional service roles.