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Al-Backed Insights Into the Rental Market

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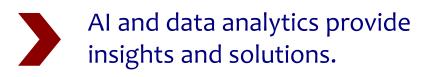
Toronto, ON October 7, 2025





Chronic Undersupply and Unrelenting Demand

- Canada faces a housing crisis:Supply can't keep up with demand.
- Multifamily demand remains resilient amid ongoing housing challenges
- Pressure mounting on households and policymakers
- The challenge is multi-faceted.
 - Beyond simply achieving more completions
 - Must address regulatory, demographic, and construction factors







Determinants of Housing Completions

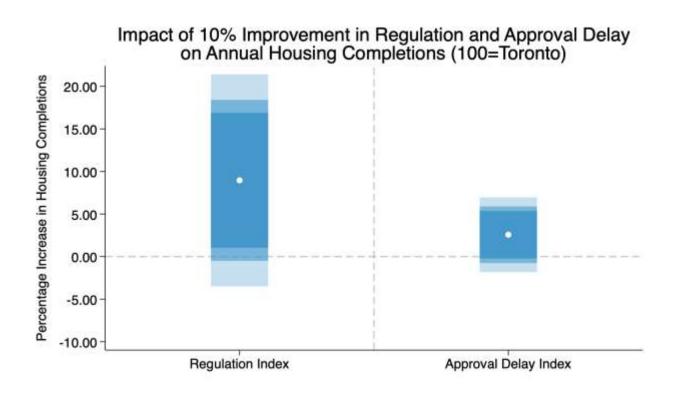
- Unique dataset combining
 - Municipal regulation indices;
 - □ Input price shocks;
 - Population & demographic factors
- Methodology
 - Econometric analysis
 - □ Al-powered forecasting models



Our goal is to quantify how policy actions and market shifts can realign supply with demand.



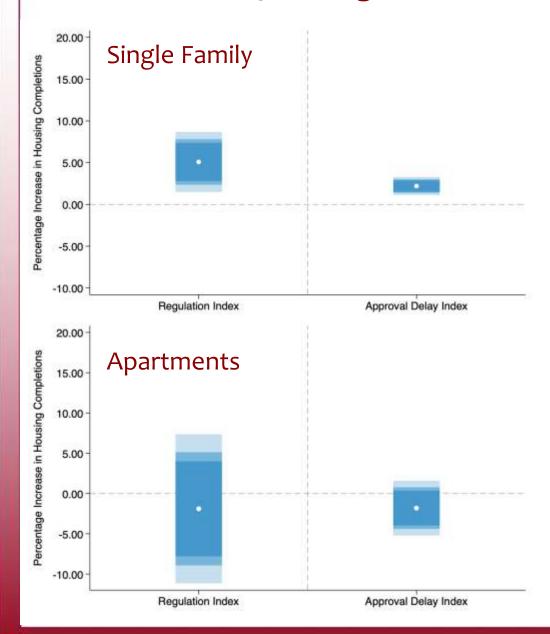
Municipal Regulation and Approval Delays



- Regulation Index represents zoning rules, fees, community consultation requirements, density limits, and environmental assessments.
- A 10% improvement in the Regulation Index is associated with an almost 10% increase in housing completions.
- □ A 10% reduction in the Approval Delay Index results in a 3% increase.



Municipal Regulation and Approval Delays



- Fewer rules and faster approvals disproportionately boost singlefamily housing
- Single-family homes face the heaviest zoning and municipal barriers (esp. in greenfields)
- Apartments often benefit from pre-zoned areas and provincial planning
- Relaxing regulation → outsized impact on single-family vs. smaller effect on apartments

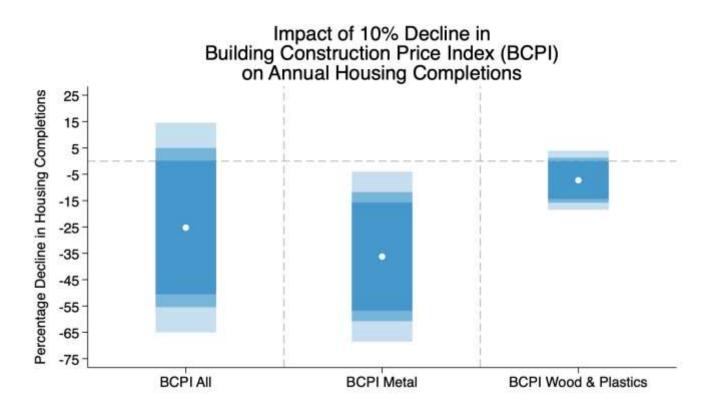


Key Insights: Regulation and Approval Delays

- Streamlining regulations and approvals can raise housing supply by 10–13% without new spending
- Cutting delays is a low-cost, high-impact way to meet housing goals
- Single-family homes respond strongly to local regulatory reform \rightarrow faster timelines, lower costs, better returns
- Apartments need provincial-level tools: incentives, infrastructure, subsidies
- Matching policy tools to housing type (single family, apartment, etc.)
 helps investors and policymakers act more effectively



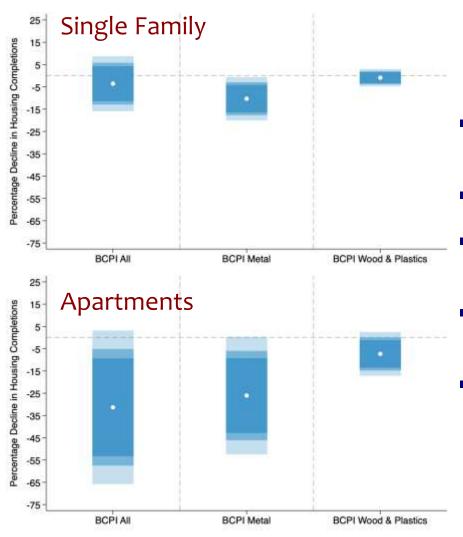
Input Price Shocks and Housing Supply



- Construction input prices are a key driver of housing supply.
- Global trade uncertainty makes this issue more critical.
- We use Building Construction Price Index (BCPI) to measure impacts.
- A 10% rise in input costs reduces housing completions by 25% of national averages.



Input Price Shocks and Housing Supply



- Rising construction costs reduce both single-family and apartment completions.
- The effect is stronger for apartments
- A 10% rise in BCPI → 30% reduction in historical mean apartment completions
- Apartments are more sensitive due to capital intensity and cost structure.
- Early construction phases are especially exposed to material price swings.



Key Insights: Input Price Shocks and Housing Supply

- Policy response: Protect housing supply from rising input costs with tax relief or targeted supports
- Investors and housing developers: Need agile cost-contingency planning and smart timing strategies
- Apartment developers: Tighter margins → lock in contracts, explore modular construction, and strong cost controls
- Recognizing cost inflation helps prioritize capital and policy tools
 - Adjust timelines
 - Lobby for relief
 - Rebalance project mix

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How We Link Supply to Prices

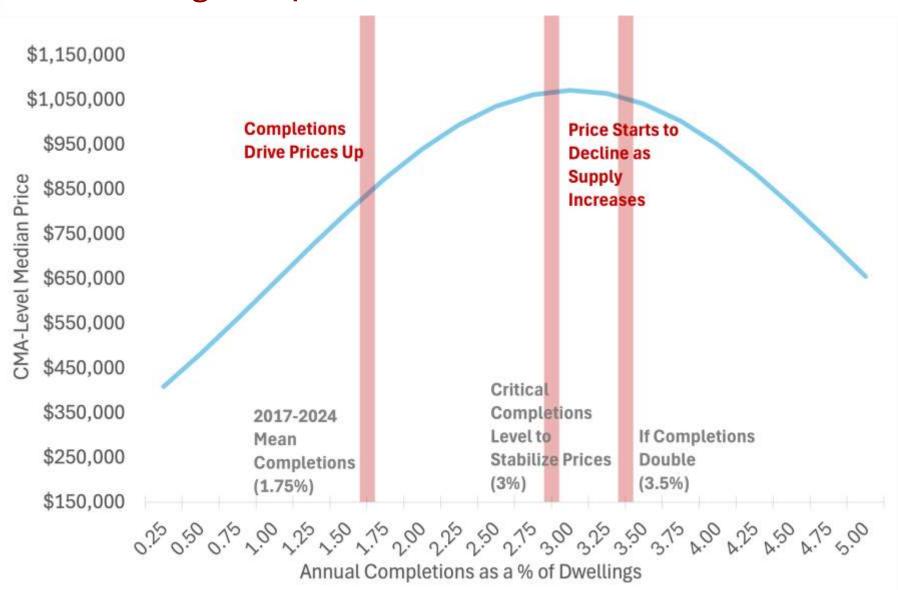
- More housing supply usually lowers prices but supply & prices affect each other
- We use construction cost shocks (metal, wood, composites) as a neutral way to measure how completions impact prices
- This method shows the true effect of building more homes, separate from demand pressures

Results:

- \square Below 3% annual completions \rightarrow supply is absorbed, prices still rise
- □ At 3%+ completions → prices begin to stabilize
- □ At 3.5%+ completions → prices start to fall
- Key takeaway: Accelerating completions is critical for affordability
 - Regulation and cost relief directly matter



Housing Completions and Median House Prices



Canada



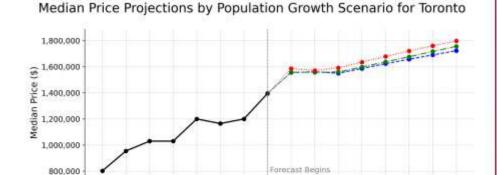
Al-Driven Housing Price Projections

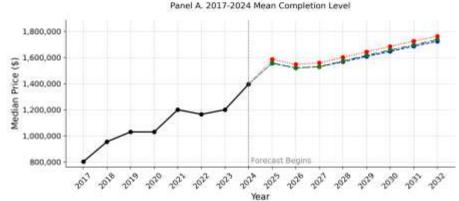
- Built on Statistics Canada population forecasts (low, medium, high growth to 2032)
- Three supply scenarios tested: baseline, +50%, doubling completions
- Al model (neural network) provides more accurate forecasts than traditional tools
- Findings:
 - Immigration policy moderates price growth temporarily (to 2026)
 - Prices accelerate again as population growth resumes
 - □ More supply = slower price growth, especially in high-demand cities

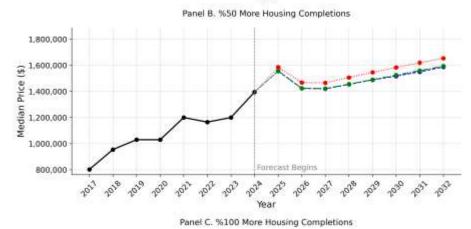


Toronto Price Projections

- \$1.5M in 2025 → temporary pause until 2027
- Prices climb again with population growth
- 2032: \$1.8M (baseline)
- +50% completions: just under \$1.8M
- Doubling completions: \$1.6M
- Takeaway: Only major supply growth slows the trend





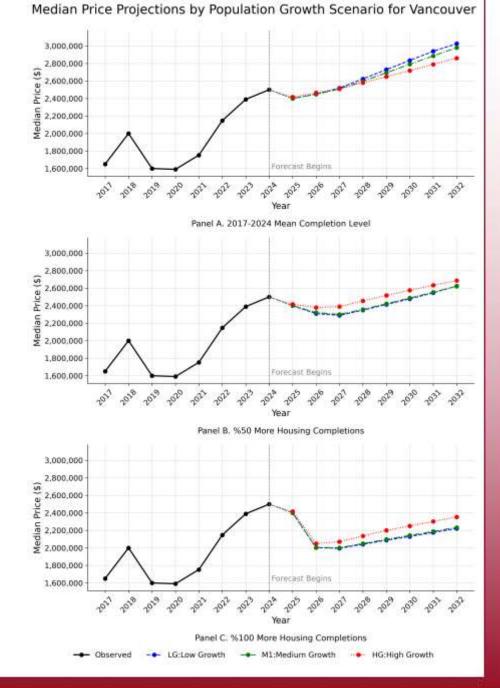


M1:Medium Growth



Vancouver Price Projections

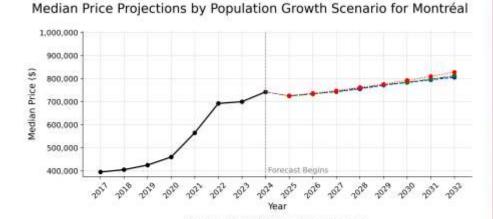
- \$2.5M in 2025 → small dip, then rebound
- 2032 baseline: nearly \$2.8M
- +50% completions: still above \$2.8M
- Doubling completions flattens prices near \$2.5M
- Takeaway: Deep supply-demand imbalance — only aggressive building stabilizes prices

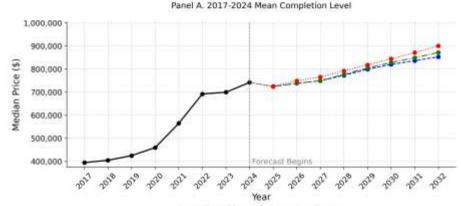


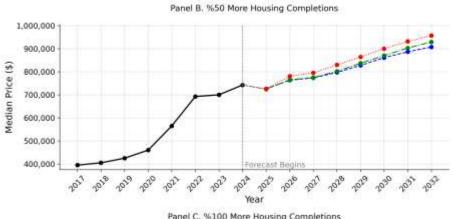


Montreal Price Projections

- \$740K in 2025 → brief dip, then steady rise
- 2032 baseline: >\$800K
- Higher completions: prices approach \$900K (absorbed by excess demand)
- Takeaway: Inverted supply curve completions must rise substantially before prices stabilize









Conclusion: Breaking Ground

- Canada's housing crisis is structural demand persistently exceeds supply
- Streamlining rules can lift supply by 10–13%, but not enough to reduce prices
- Rising costs cut completions, especially apartments
- New supply first meets pent-up demand → prices stabilize rather than fall
- Stabilization requires 3%+ completions relative to existing housing stock (mean = 1.75%)

City lessons:

- □ Toronto and Vancouver → need 50–100%+ more supply growth to catch up
- Montréal → inverted curve, very large increases required
- □ Calgary → more responsive to supply, better affordability potential

Bottom line: Bold supply expansion + tailored policies are key to affordability.