

Authorship and Ownership Declaration

Title: Immigration Rental Impact Index (IRII) – Adjusted for Rental Supply

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1. Background and Purpose

This document formalizes the authorship of the custom metric "**Immigration Rental Impact Index (IRII) – Adjusted for Rental Supply**". The IRII measures immigration's impact on Australia's long-term rental market by visa types. These formulas address concerns about the market's ability to accommodate growing migrant populations and feature unique design and analytical depth.

2. Original Formula Definitions

IRII Formula:

$$IRII = \left(\frac{\Delta \text{Immigrant renters}}{\text{Visa Grants}} \right) \times 100$$

Adjusted IRII Formula:

$$IRII_{Adjusted} = \left(\frac{\Delta \text{Immigrant renters}}{\text{Visa Grants}} \right) \times \left(\frac{\text{Immigrant Renters}}{\text{Vacant Rentals} + \text{Citizen Renters}} \right) \times 100$$

The IRII Adjusted (%) gives a more accurate view of pressure per available rental unit.

Advantages:

- **Quantitative Impact:** Measures rental stress per visa grant.
- **Policy Responsive:** Linked to visa trends and housing stock.
- **Time-Series Insight:** Useful for forecasting and planning.

Limitations:

- **Data Consistency:** Assumes stable visa-to-renter ratios.
 - **Market Exclusion:** Ignores other market forces like investors and construction delays.
 - **Overlap Assumptions:** Assumes no overlap between immigrant and citizen renters.
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3. Authorship and Originality Statement

I, [Rajatkumar G. Patel], affirm that the above formula concept, accompanying indicators as (sentence/s) are my **original concept** and were **not copied, derived, or reproduced** from any pre-existing publication known to my knowledge. The work was generated under my direction and reflects unique analytical perspectives.

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End of Declaration