We aim to create an interactive data visualization tool that helps identify what are the binding constraints for growth in cities in Mexico. Its inspiried in the following diagnostic framework:

A diagram of a city

AI-generated content may be incorrect.

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| --- | --- | --- |
| **Question** | **Visual** | **Notes** |
| How is my country’s achieving spatial equilibrium? | (1) Employment rate vs. population by city (levels) | Answer if its flat thats mexico or US, you have spaital equilibrium adjusted with prices  If it is not, its zaf or mar, upward sloping curve, and spatial equilibrium is constrained, so wages are not adjusting… you need to look at employment rates |
| Is the city growing? | (2) Population growth compared to other cities BOXPLOTs by year with red dot highlighting the city (3) SCATTER of population growth VS real wages |  |
| Were there any breaks in population trajectory? | Line graph of population in city (2) | Is the city recovering from shocks? What’s the long term trajectory? Is this a new problem? |
| If NO, what constrains growth? Is it labor demand or supply issues? | (3) CAGR Real wages VS change of net migration or population growth  (4) CAGR Nominal wages VS change of net migration or population growth | Growth quadrants that can point towards a direction…. First approximation |
|  | (5) Line graph of nominal wages by year for specific city and another line for median of cities  (6) Line graph of real wages by year for specific city and another line for median of cities  (7) Line graph of housing costs | Additional quick checks that can help identify areas of concern (e.g., amenities in Memphis and Baltimore) |
| If YES, what might constrain growth in the future? Is it labor demand or supply issues? | Same visuals as NO |  |
| How big is the issues relative to other potential problems? | Regression coefficients |  |

**Figures:**

(1) Employment rate vs. population by city (levels)

(2) Population growth compared to other cities BOXPLOTs by year with red dot highlighting the city (3) SCATTER of population growth VS real wages

Line graph of population in city (2)

(3) CAGR Real wages VS change of net migration or population growth

(4) CAGR Nominal wages VS change of net migration or population growth

(5) Line graph of nominal wages by year for specific city and another line for median of cities

(6) Line graph of real wages by year for specific city and another line for median of cities

(7) Line graph of housing costs