Analysing the Effect of Longitude and Latitude on European Inflation Dynamics

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Motivation & Aim

- ▶ Inflation can stimulate economic growth but has limitations. ¹
- ▶ Rising prices reduce purchasing power, disproportionately affecting wage earners. ¹
- Understanding drivers of inflation is crucial.
- ▶ We focus on whether geographic coordinates (longitude, latitude) influence inflation rates in Europe.

Data

- ► Inflation data: *OECD dataset* (29 European countries, Dec. 2005 Sep. 2024).
 - Removed missing time periods for consistency.
- Geographic data: Google's countries.csv, filtered for European countries.

Methodology

- ► Longitude-latitude
 - Use centroid-based longitude and latitude for each European country.
- Model
 - Linear regressions on inflation using longitude, latitude, and both.
- Goal: Identify any measurable geographic influence on inflation.

Results

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Discussion

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References I



"The Effect of Inflation on Economic Development" (1963). In: IMF Staff Papers 1963(001), A001.