

The background of the slide is a composite image. On the left, a large, dark, textured globe is shown. A robotic hand with multiple joints is positioned at the top left, reaching towards the globe. In the upper right, a jet airplane is flying. The right side of the image shows a city skyline at dusk or dawn, with several tall skyscrapers. A large ship is visible in the water in the foreground. Overlaid on the globe and city are various digital elements: a bar chart with blue bars, a line graph with blue dots, and a network of glowing white lines connecting various points. The text is overlaid on the globe.

“Macro-Financial Index (MFI): A Global Assessment of Economic Fragility” – VIKRAM RATHORE

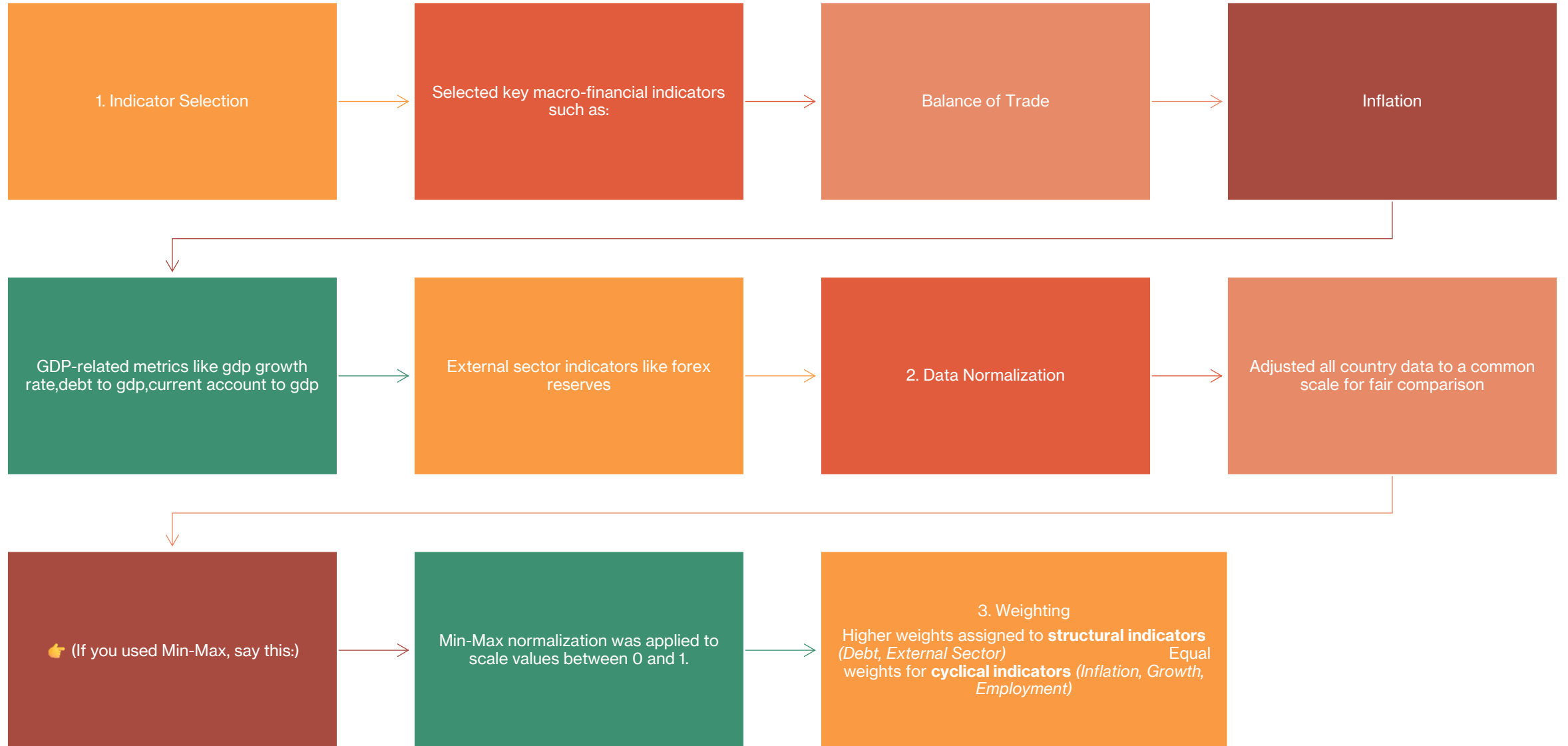
This project introduces a Macro-Financial Index (MFI) – a composite measure to assess how economically resilient or fragile nations are



Objective of MFI

- To develop a Macro-Financial Index (MFI) that measures and compares the economic fragility of countries using key macroeconomic and financial indicators.
- Capture multi-dimensional economic risk beyond GDP
- Enable cross-country comparison of structural stability and vulnerability

Methodology



WEIGHTAGE & INDEX CONSTRUCTION

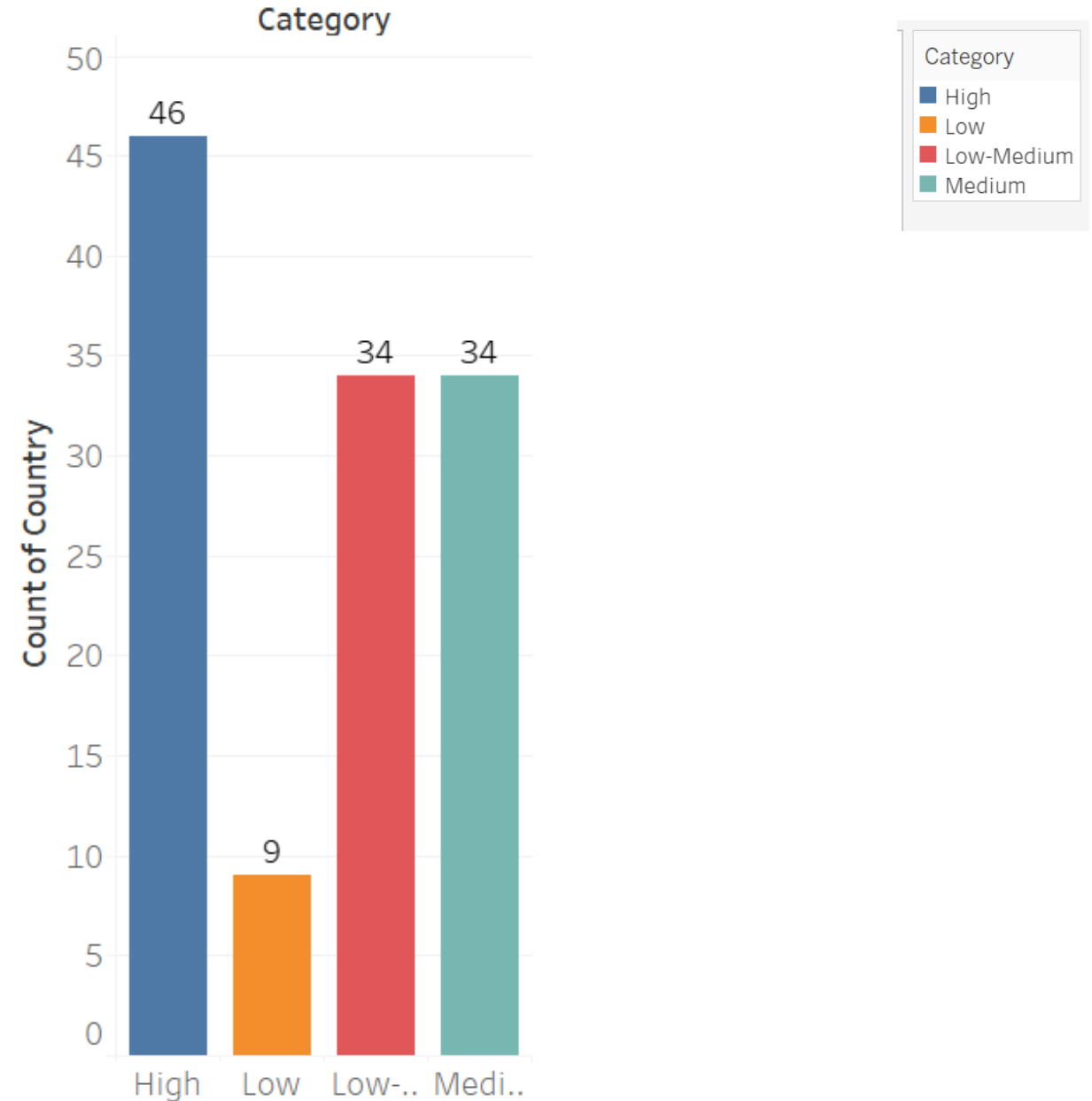
- **Indicator Weights**
- Debt (% GDP) → **20%**
- Current Account (% GDP) → **15%**
- Forex Reserves → **15%**
- Inflation → 10%
- Interest Rate → 10%
- GDP Growth → 10%
- Unemployment → 10%
- Balance of Trade → 10%
- Debt given highest weight → long-term sustainability risk
- External sector (CAD + reserves) → shock absorption
- Others → cyclical indicators



MFI Classification

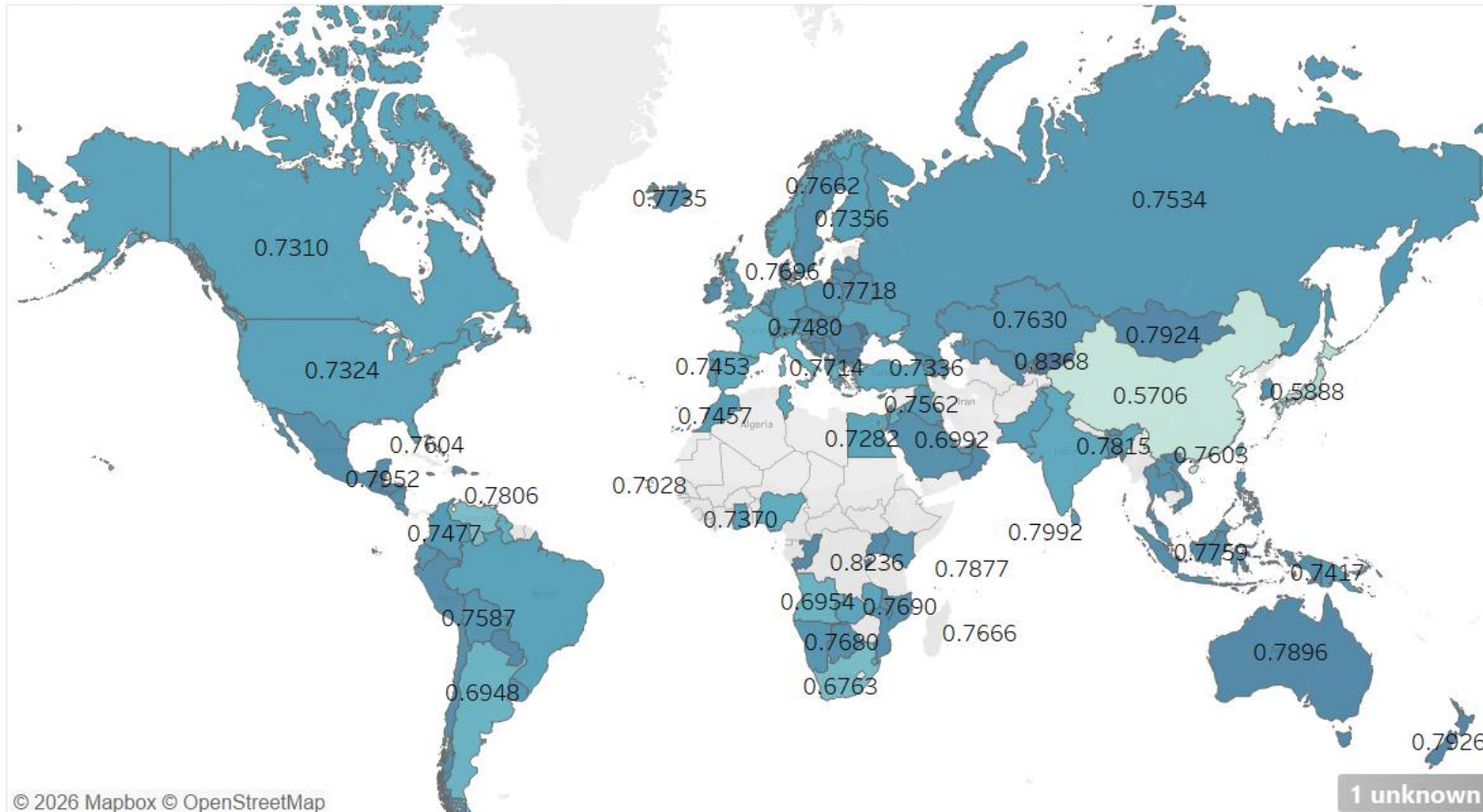
- Assigned category to Countries as per MFI Fragility score
- $MFI > 0.77$:- High ,Countries with economic stress
- MFI is greater than 0.75 and less than equal to 0.77 :- Medium
- MFI is greater than 0.70 and less than equal to 0.75 :- Low to Medium
- MFI is less than or equal to 0.70 :- Low ,Least Economic Vulnerability

Count of Countries as per Category



KEY OBSERVATIONS

Map showing MFI score countrywise



- High fragility concentrated in smaller and developing economies
- Developed economies exhibit **medium fragility**, primarily driven by elevated debt levels
- India falls in the **medium fragility category**, indicating a balanced risk profile
- Low fragility economies (China, Singapore, Japan) benefit from strong external buffers

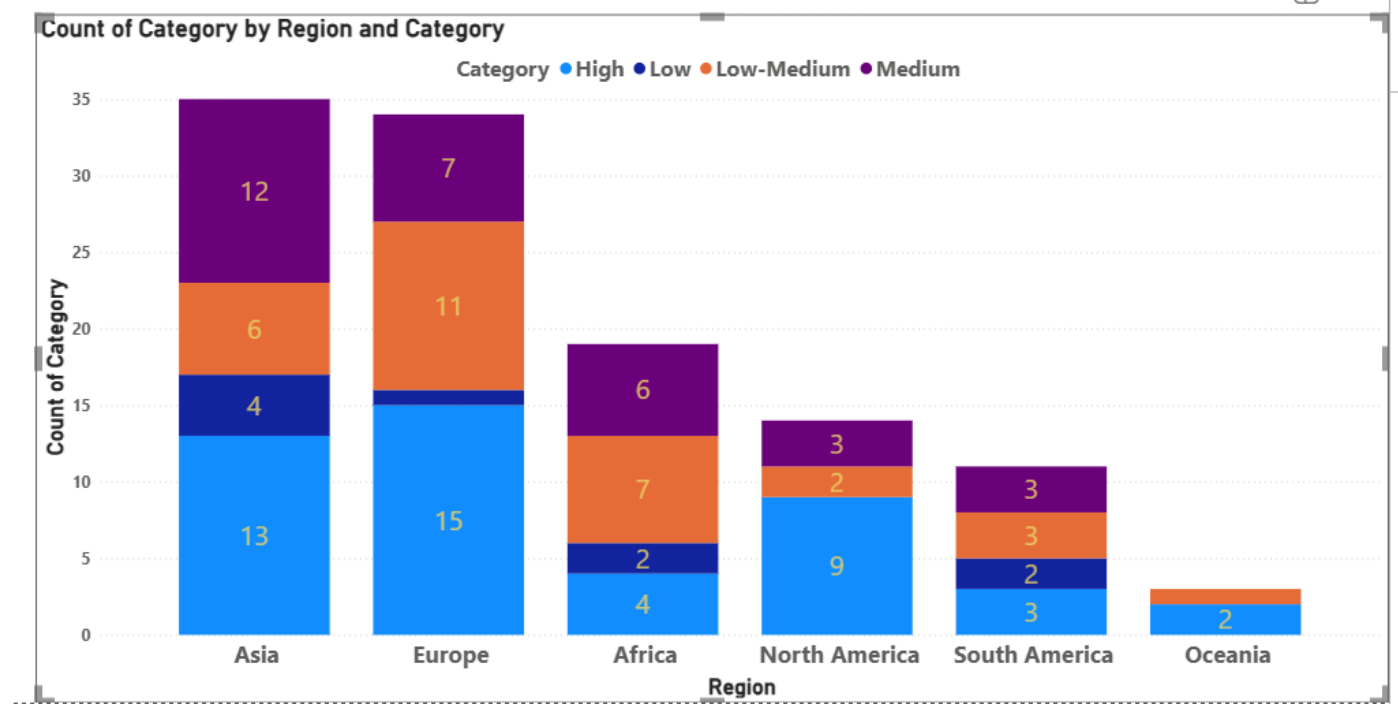
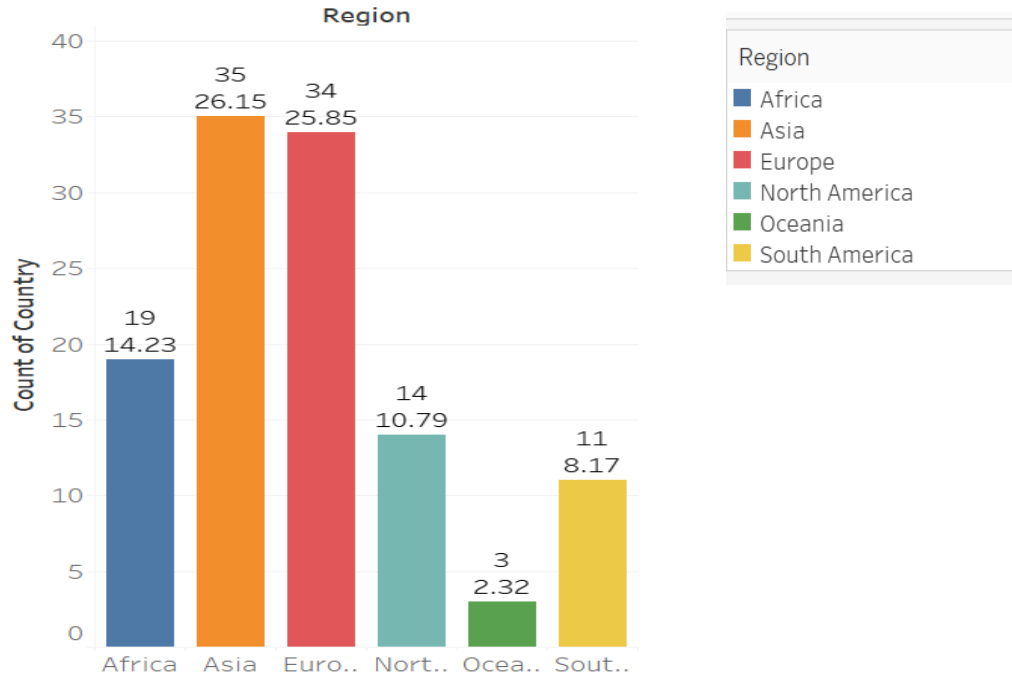
Note :- Darker the colour of the country more economically fragile and vice versa.

Correlation Pattern

VARIABLE	VARIABLE 2	CORRELATION COEFFICIENT	INTERPRETATION
MFI	Debt to GDP	0.67	Strong positive correlation with fragility Higher debt = higher vulnerability measures fiscal sustainability
	Inflation	0.065	Moderate impact Indicates macro instability
	Balance of Trade	0.273	Moderate positive correlation Show vulnerability to global shocks
	Unemployment Rate	0.279	Structural weakness indicator Reflects internal economic stress

REGION BIFURCATION

Regionwise MFI and Countries



First chart indicates total. mfi for countries regionwise. Asia tops with 35 nations and max MFI followed by Europe. Second chart displays number of countries as per category regionwise.

Interpretation

- **A. Structural Insights**
 - Economic size does not guarantee stability
 - Structural fundamentals drive fragility
- **B. Drivers of Fragility**
 - Developing economies → external vulnerability
 - Developed economies → debt-driven risk



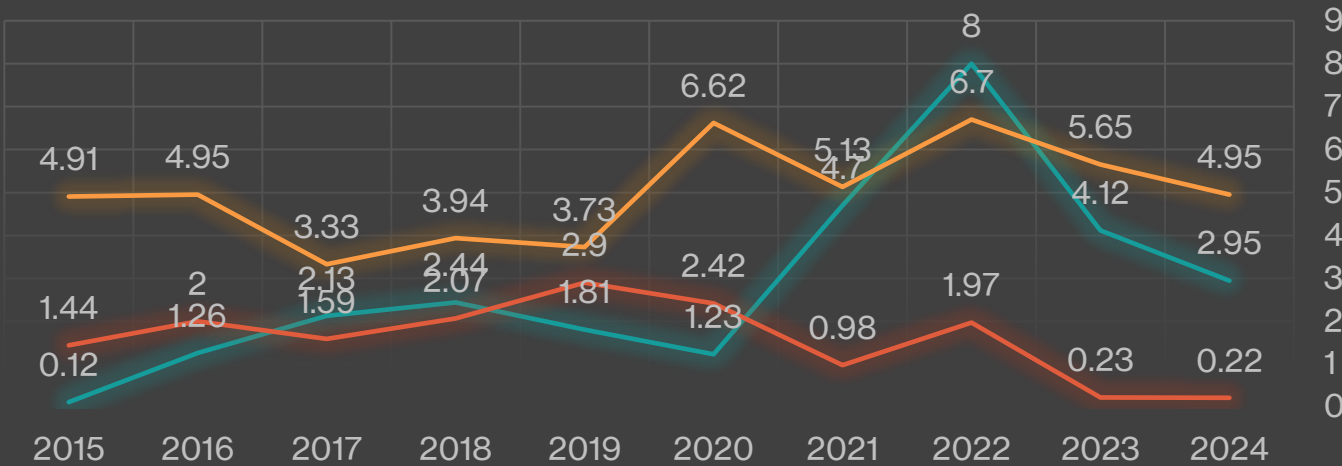


Regional Insights

- **Europe**
 - Mix of High + Low-Medium
 - Indicates **divergence within developed economies**
- **Asia**
 - Wide spread (High → Low)
 - Reflects **heterogeneous economic structures**
- **Africa**
 - Skewed towards Low-Medium / Medium
 - Structural constraints + external dependency
- **North America**
 - Mostly Medium

3 countries inflation trends

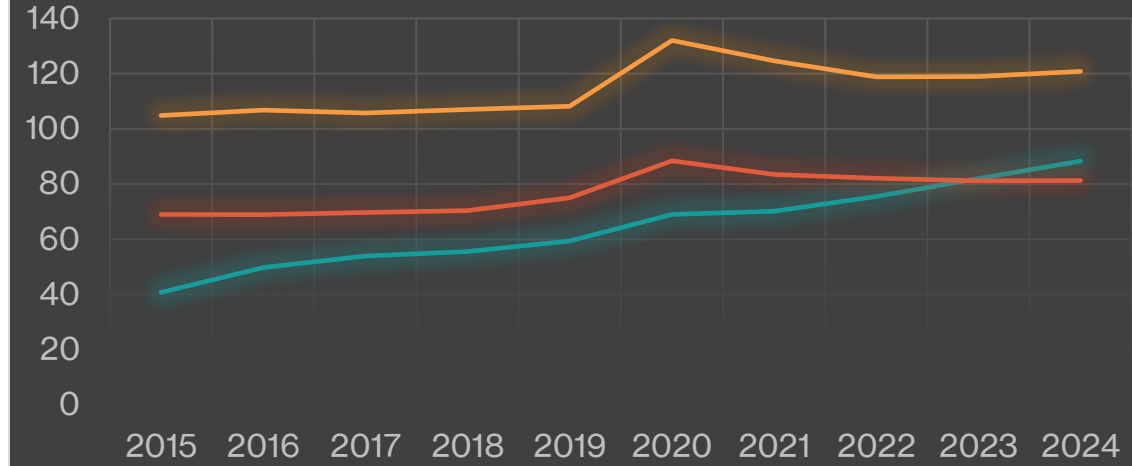
Us inflation india inflation china inflation



- India:** Inflation spiked during COVID; stabilized below 5% due to RBI intervention
- US:** Historically low inflation, recent rise due to global headwinds
- China:** Persistently low inflation may indicate weak domestic demand
- Conclusion:** Inflation shows limited correlation with overall economic fragility

3 nations debt to gdp trends

China debt to gdp US debt to gdp India debt to gdp



- US:** High debt (>100% GDP), major contributor to medium fragility
- China:** Rising debt post-2019, reflects credit-driven growth risks
- India:** Moderate debt with post-COVID stabilization

Conclusion

- Economic size $\neq$ stability
- Developed economies: debt-driven fragility
- Developing economies: external vulnerability
- India: balanced but improvable
- Policy focus: debt management + external buffers



Trivia: Macro stability is not a function of growth and economic size alone, but of resilience across cycles

SOURCES

- Trading Economics
- Macrotrends
- Ministry of Trade and Commerce
- Bloomberg

