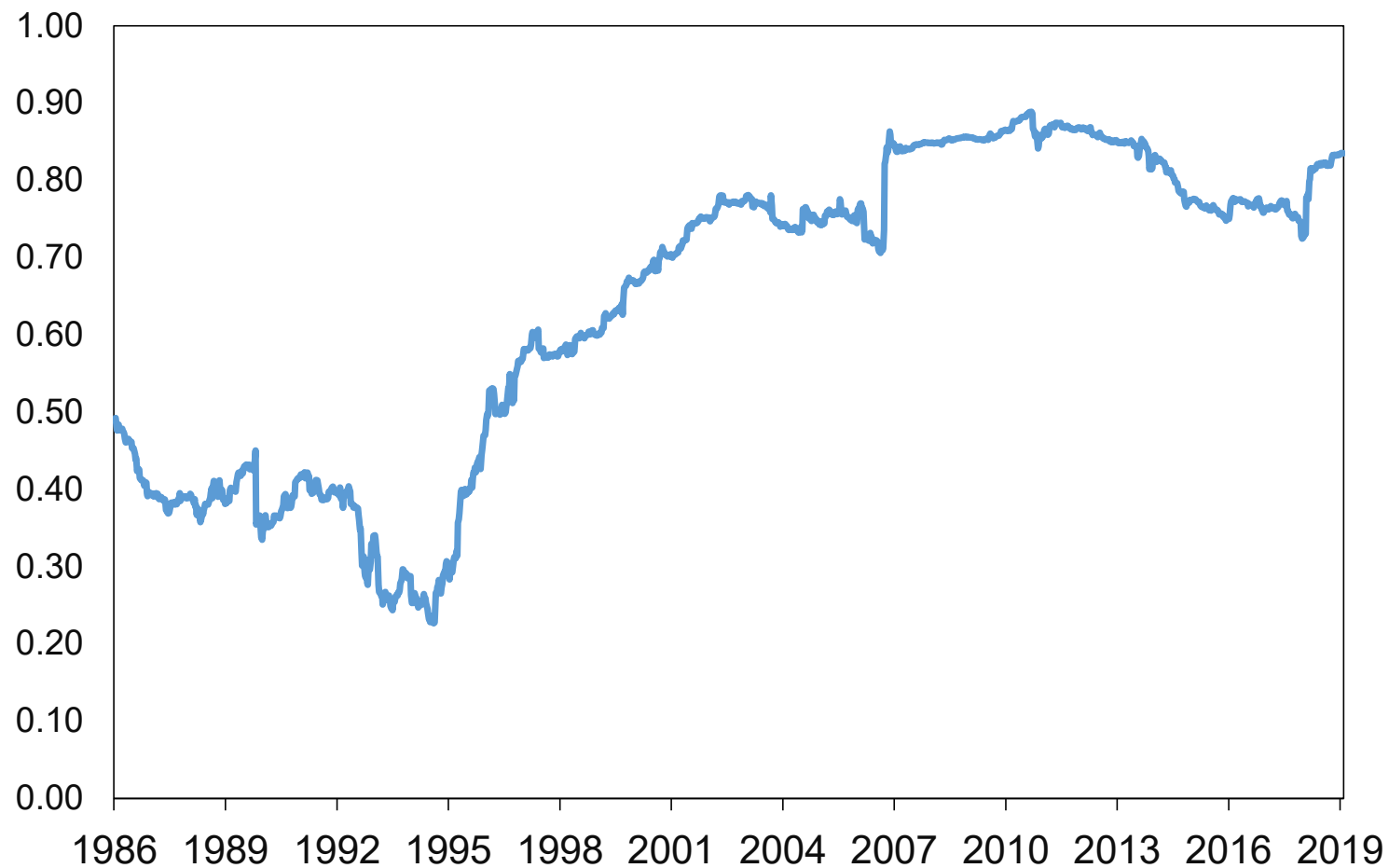


Cross-Country Stock Market Comovement: A Macro Perspective

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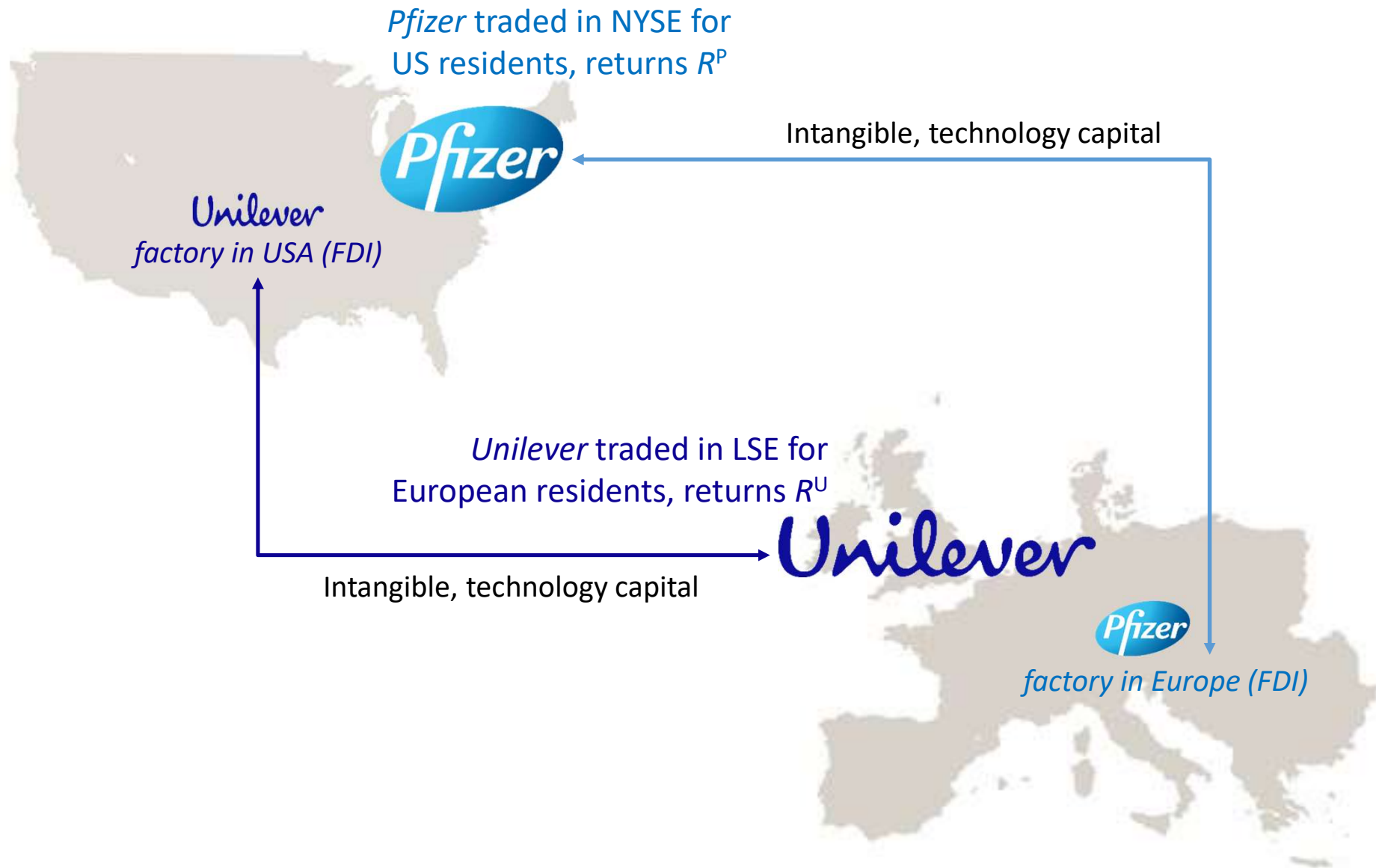
Stock returns comovement



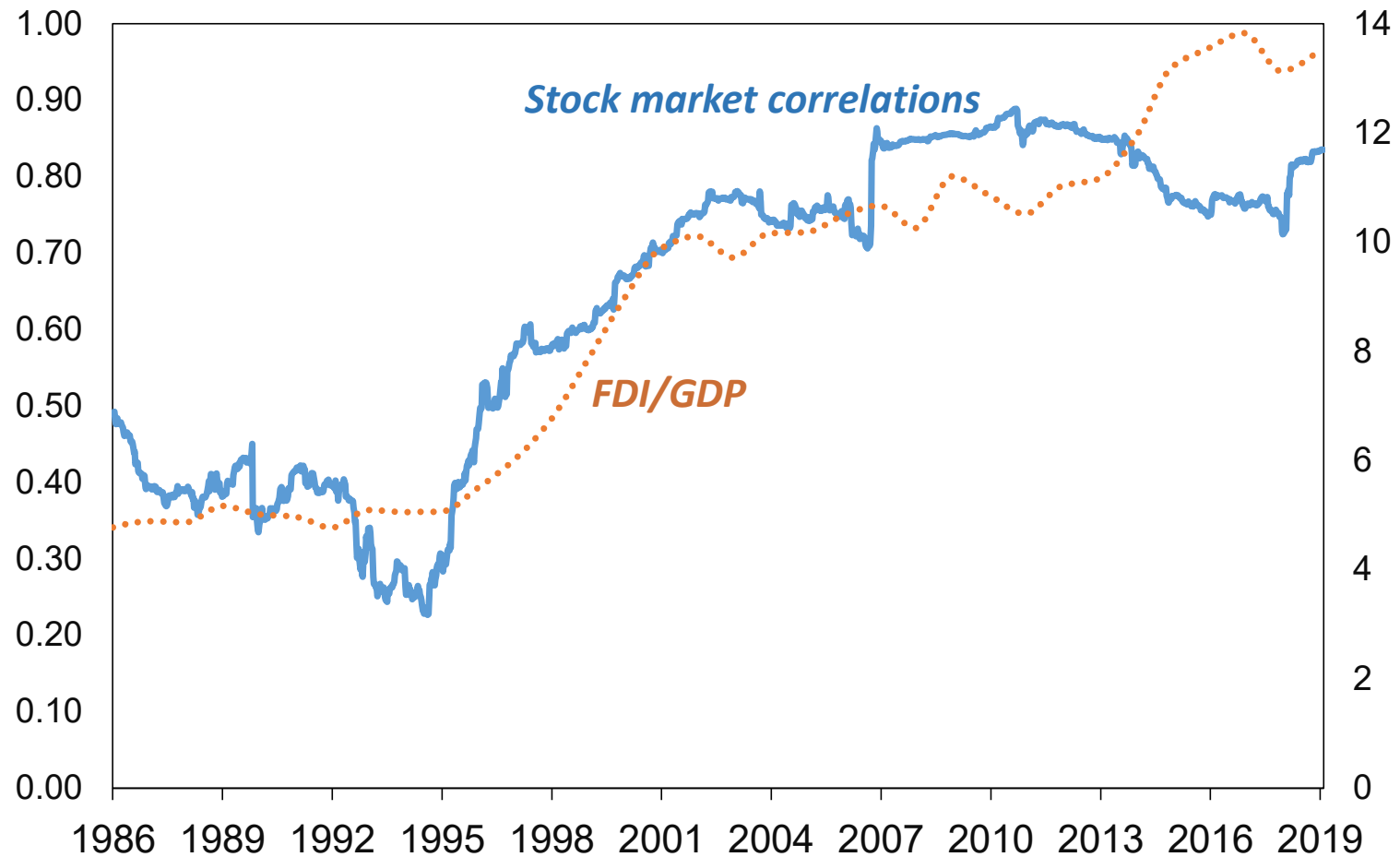
Four year rolling window correlations of weekly returns of MSCI US and MSCI World ex. US

Stock returns comovement

- Correlation of US stock returns with returns of other large stock markets has *doubled* between 1980s and 2010s.
- Some potential factors...
 - General business cycle synchronisation
 - Monetary policy
 - International trade
 - Cross-border equity holdings
 - **Foreign direct investment** (FDI) by multinational firms



Comovement and FDI

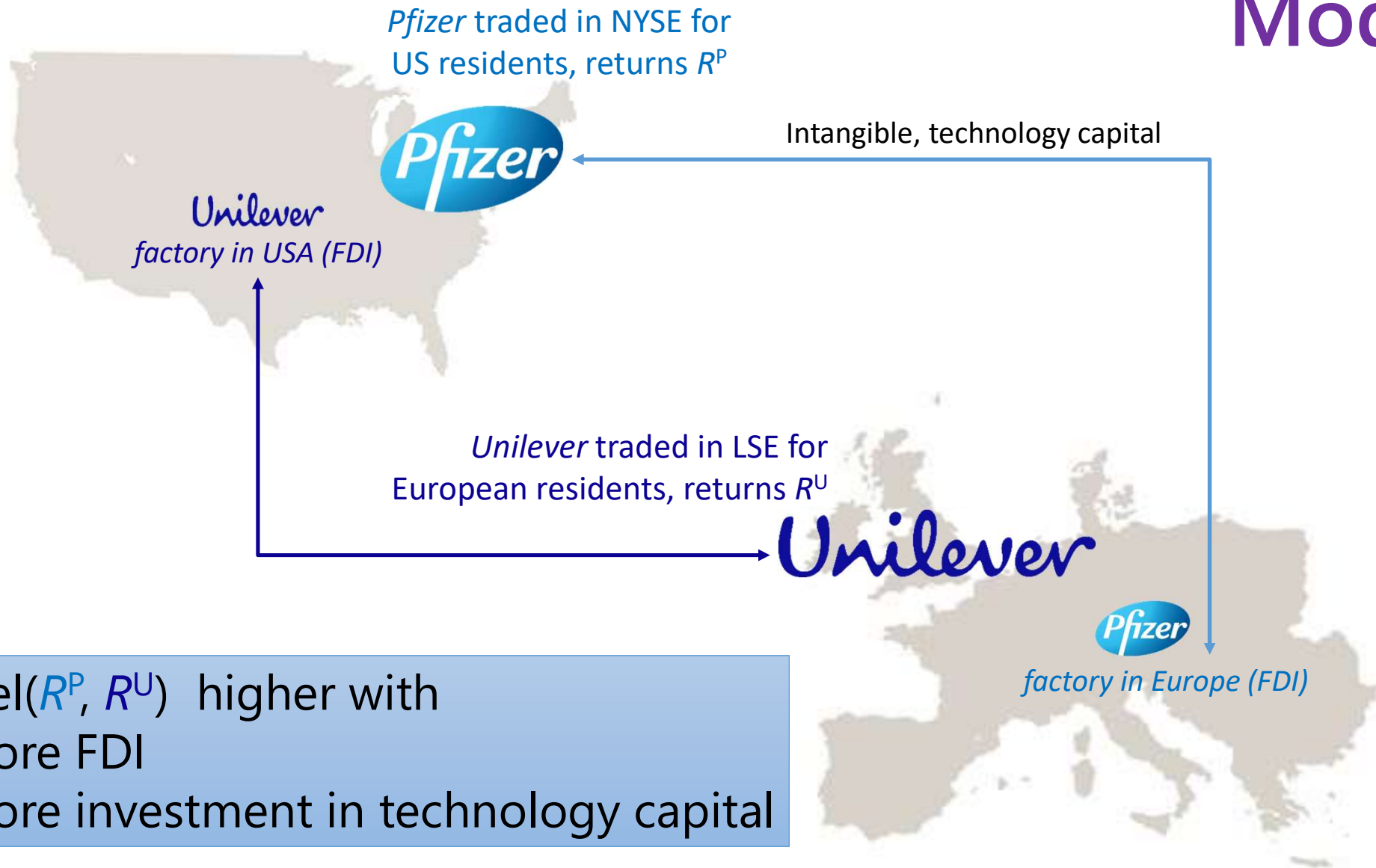


Four year rolling window correlations of weekly returns of MSCI US and MSCI World ex. US

Empirical results

- Is **FDI** an important driver for country stock return comovement?
 - **Yes**: Doubling country-pair relative FDI positions is associated with an increase of **0.16** in stock market correlations, even after controlling for trade.
- Is **investment in tech capital** by **multinational firms** important for explaining stock market comovement?
 - **Yes**: Such firms have a return correlation with foreign stock markets that is on average **0.11** higher than that of non-multinationals.

Model



$\text{correl}(R^P, R^U)$ higher with

- more FDI
- more investment in technology capital

Quantitative results

- Calibrate model to **USA** and the **Rest-of-the-World** in early 1990s, and match correlation of returns in data for the same period, at **0.38**
- Experiments: simulate increase in FDI positions as observed in the data, and see what the model predicts for stock returns
- The model explains about **1/3** of increase in stock market comovement: correlation increases from **0.38** to **0.52**

Directions for future research

- What explains the remaining **2/3** of stock market correlation increases across countries?