

## Financial Risk and Network Theory

Seminar 9 September 2015

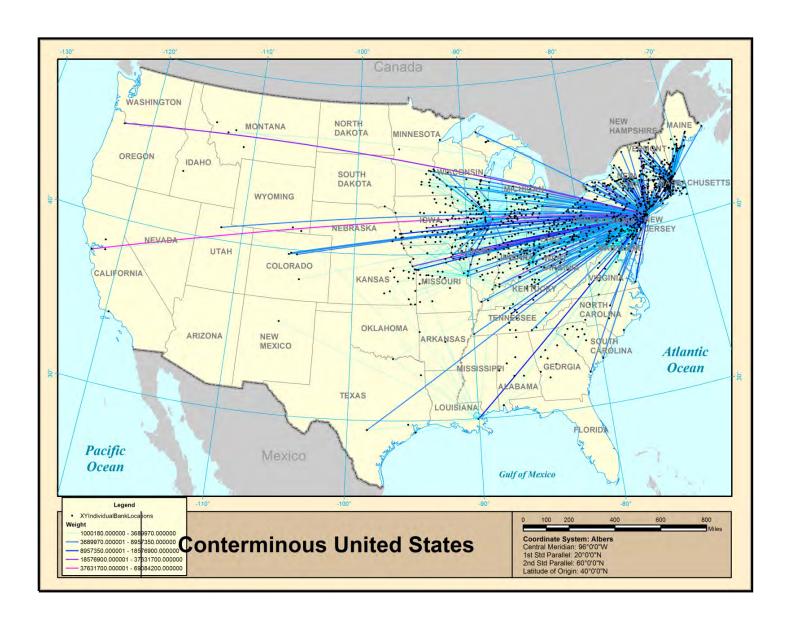
**Candidates for** 

## Cambridge Prize for Financial Network Visualisation

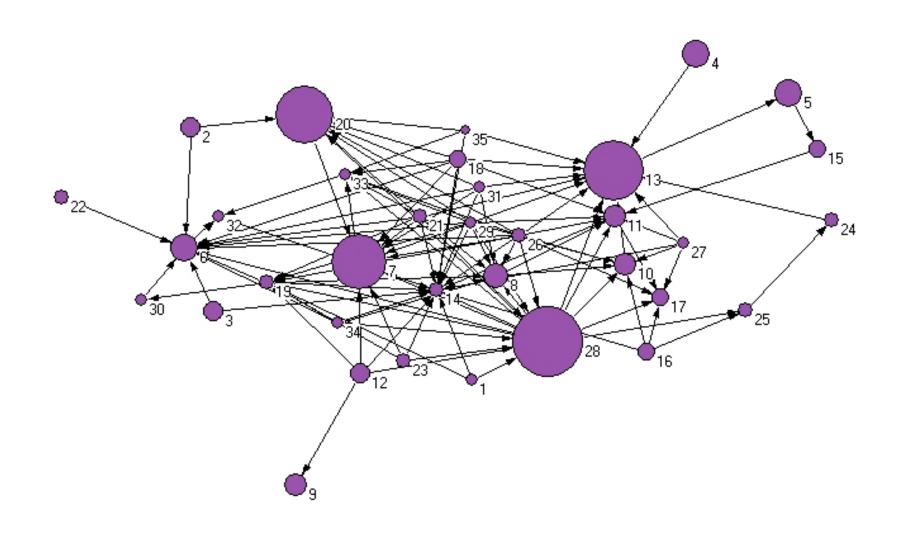




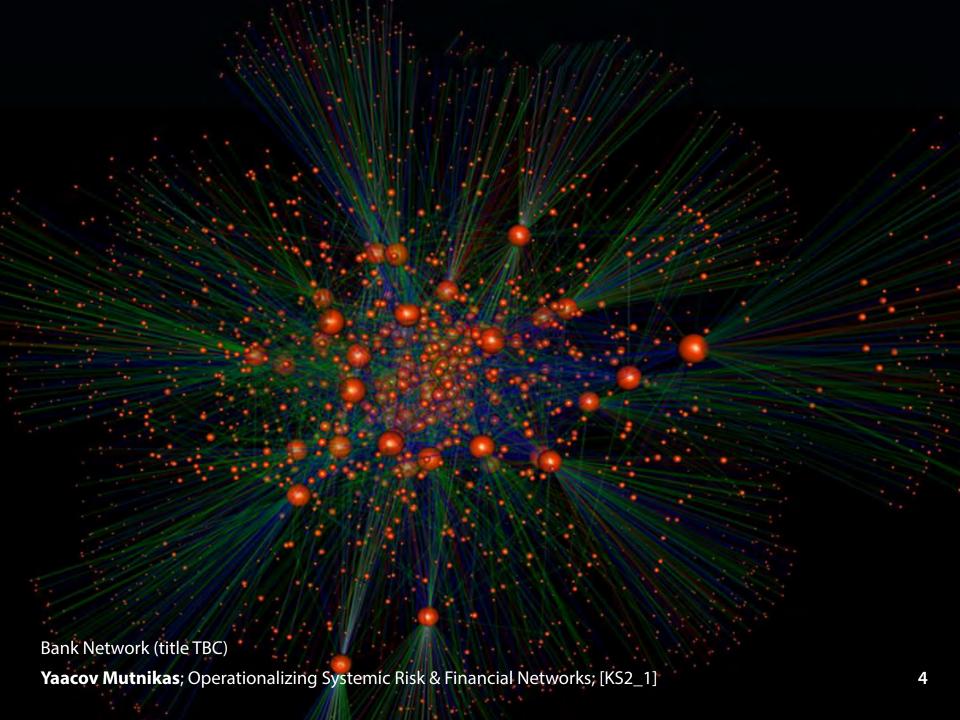


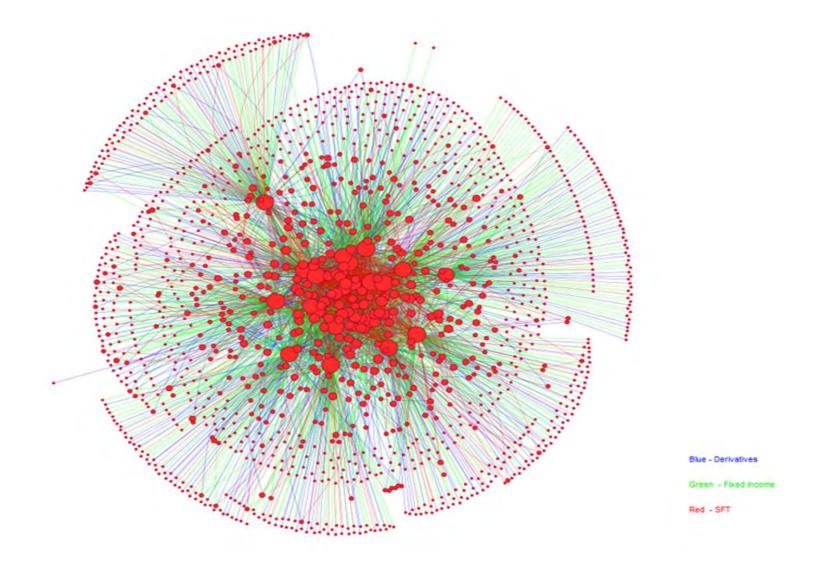


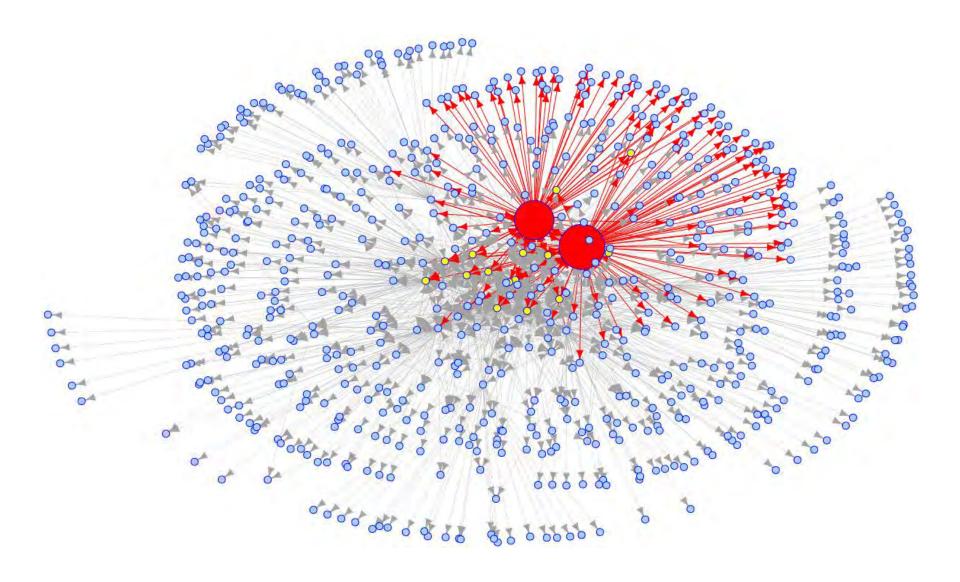
US Banking Network during 1873 Financial Crisis



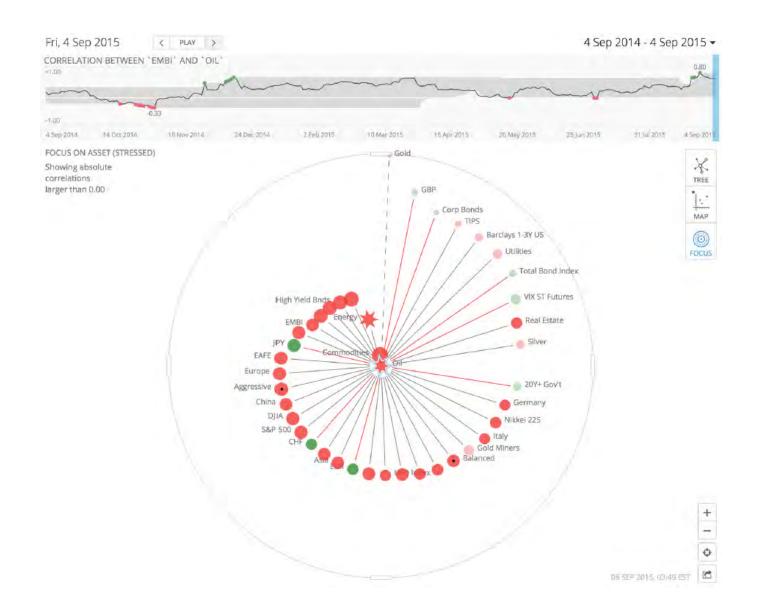
Inter-Bank Markets as a Network



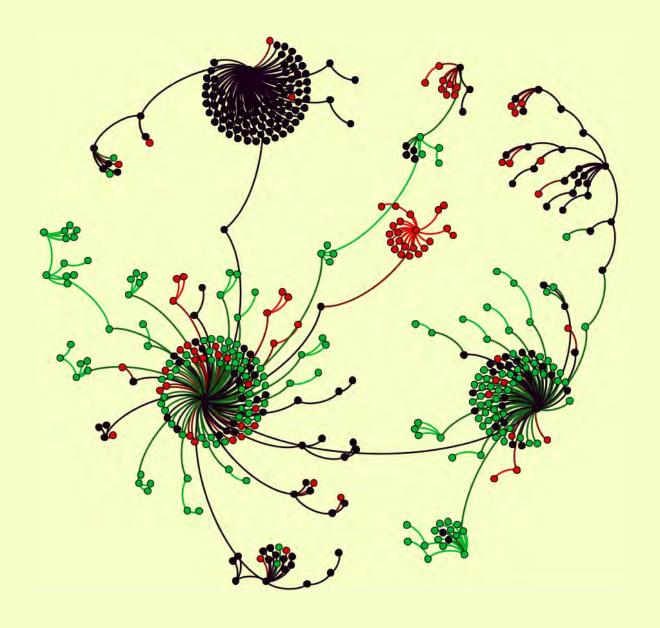




Correlation of a Specific Asset Class Held by Institutions

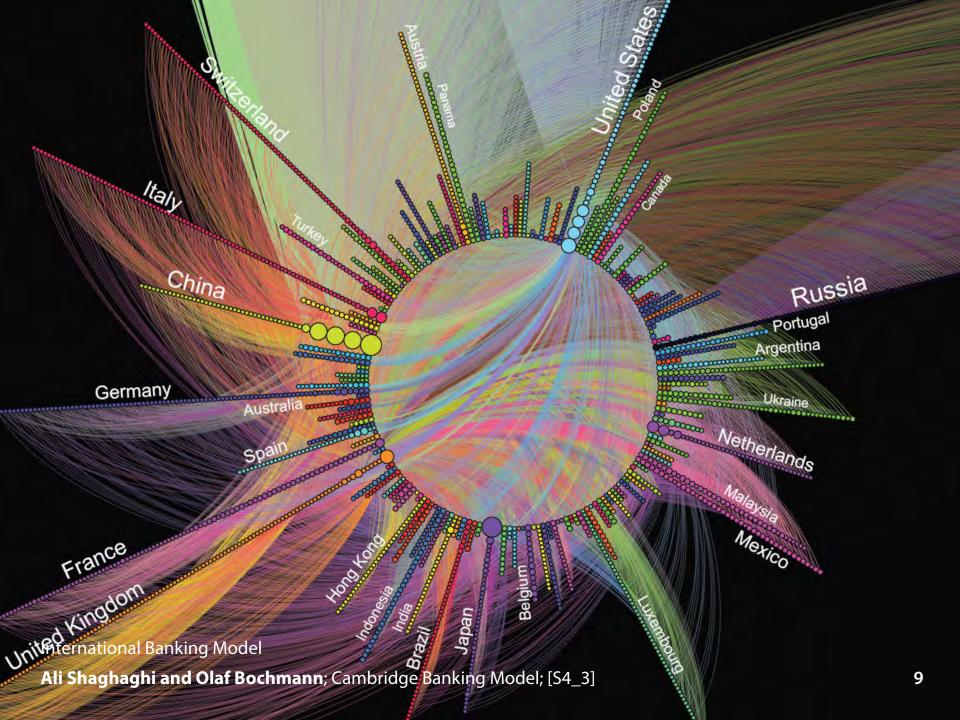


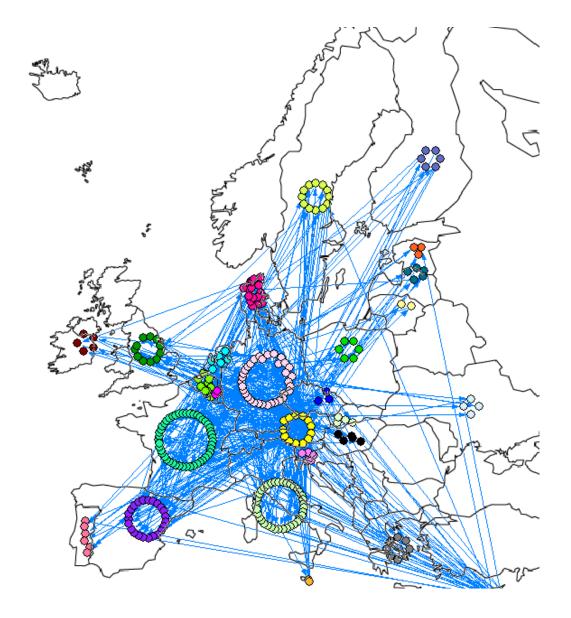
Investment Asset Correlation: Stress Testing Oil Shock



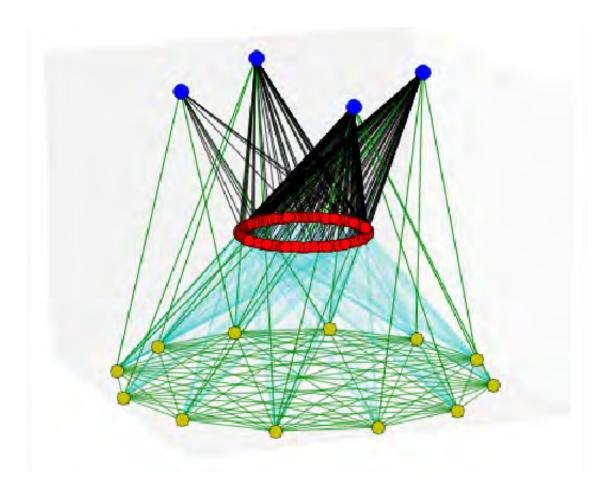
Holding Company Hierarchies: Example Bank (Wells Fargo)

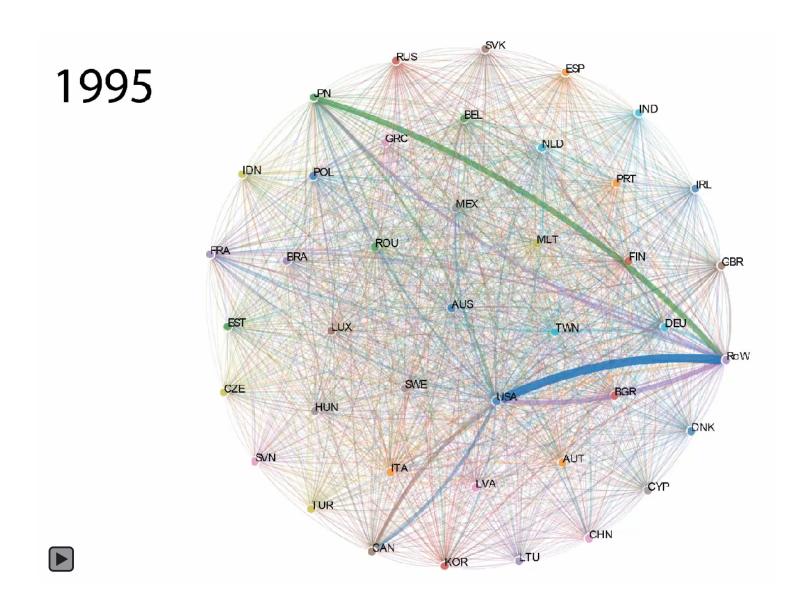
**Mark Flood**; On Counterparty Networks; [KS1\_3]



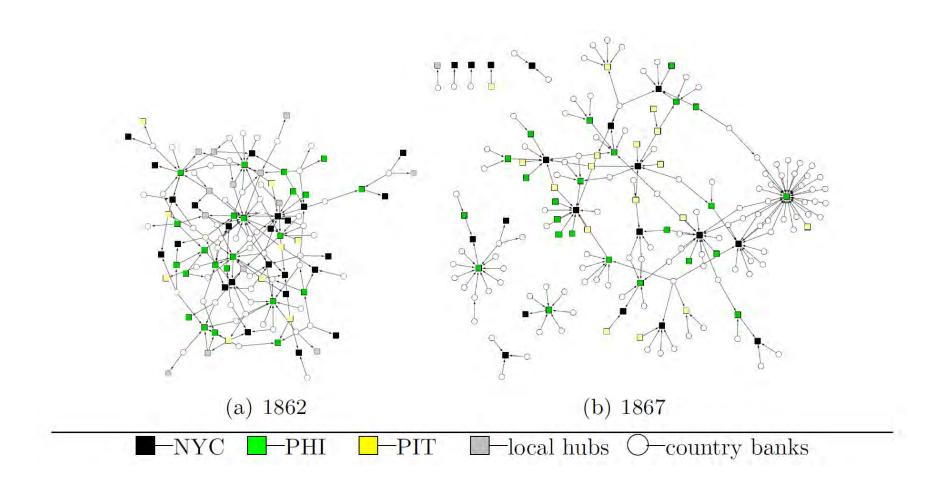


**European Interbank Exposures** 



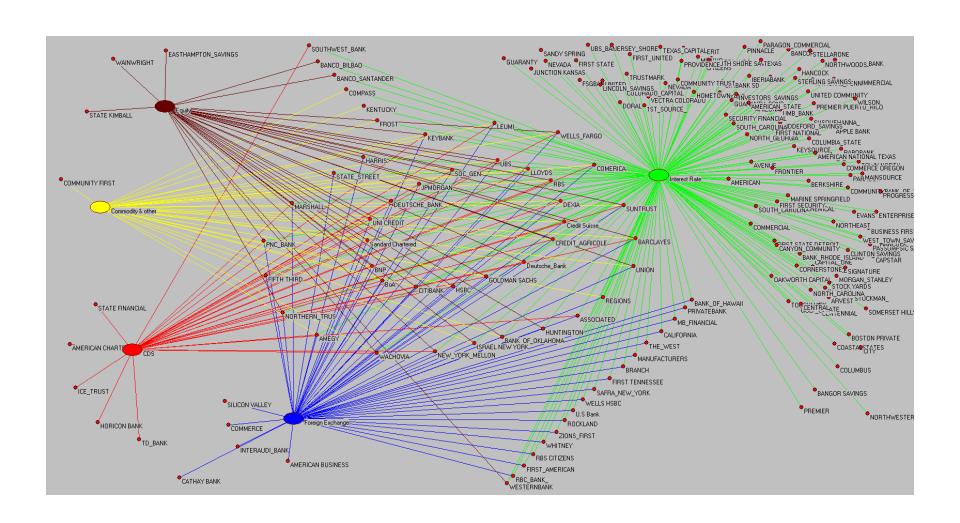


2011 Economic Multi-Regional Input-Output Flows - Time Series Animation **Paweł Fiedor**; Structural Sustainability of the Global Supply System; [S2\_3]

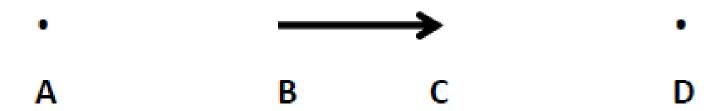


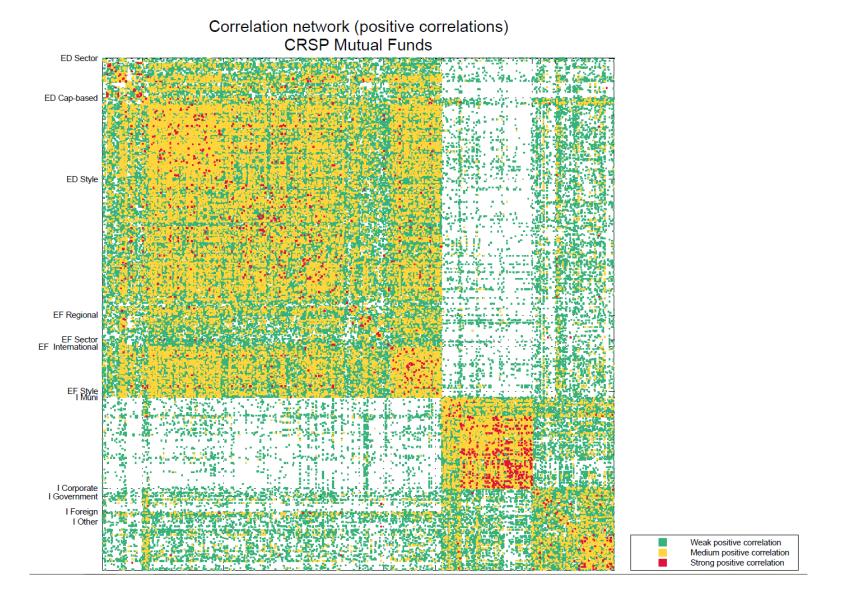
Empirical Correspondent Networks of US Banks 1862 and 1867

**Mark Paddrik**; Bank Networks and Systemic Risk: Micro-evidence before and afer the National Banking Acts of 1863-1864; [S3\_1]

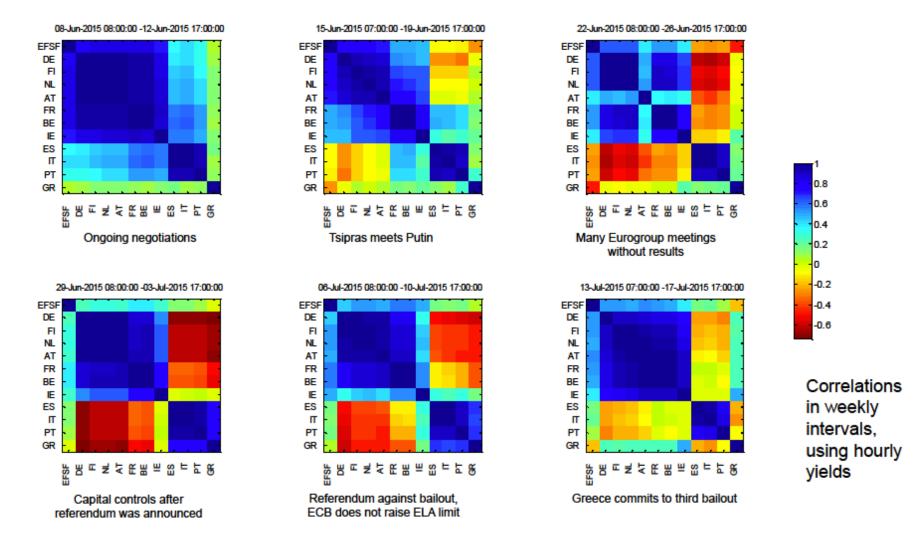


## Initial Network



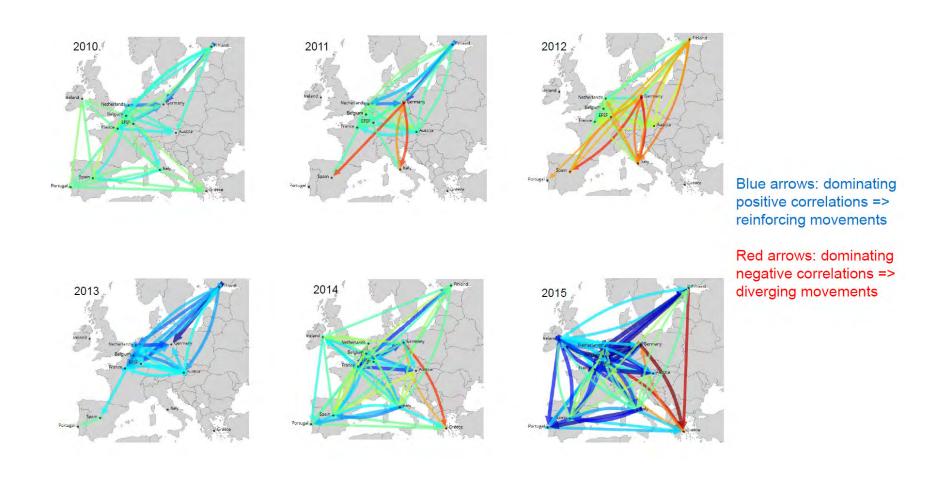


**Mutual Funds Correlation Network** 



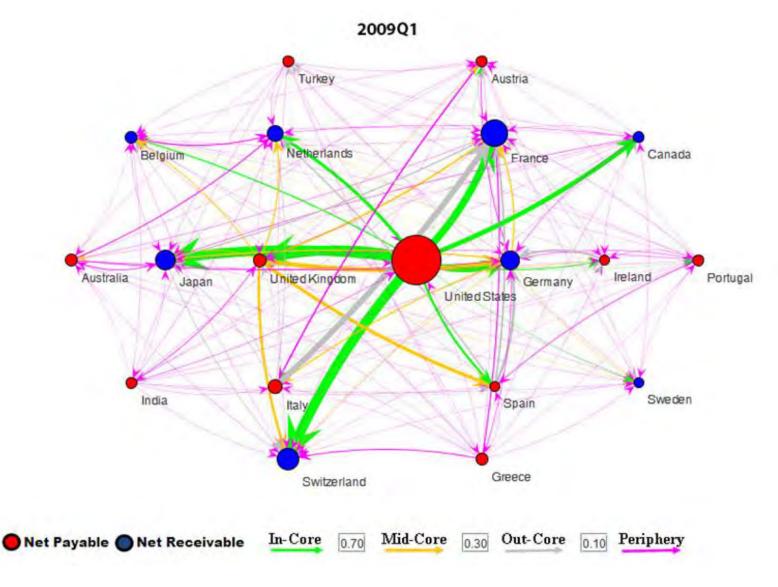
Eurozone Bond Correlations During Grexit Crisis 2015

**Peter Schwendner**; European Government Bond Dynamics and Stability Policies: Taming Contagion Risks; [S5\_2]



Eurozone Bond Correlations 2010 - 2015

**Peter Schwendner**; European Government Bond Dynamics and Stability Policies: Taming Contagion Risks; [S5\_2]



Core Global Banking System Network 2009Q1

**Mateusz Gątkowski**; Network Analysis of Systemic Risk, Core Global Banking System and of Eurozone Crisis: Early Warning Signals; [S6\_2]

