

## Emergence - Emergence

<p><b>PROBLEM</b></p> <p>#1 Financial markets are emergence based systems. They're inherently hard to predict as they exhibit behavior that are non linear and spatio temporal.</p> <p>#2 So then, how do we attempt to understand the financial markets or behavior of a stock using different tools and research currently available to us?</p> <p><b>EXISTING ALTERNATIVES</b></p> <p>#1 Academic researchers have published papers on financial markets as complex adaptive systems</p> <p>#2 <a href="http://predata.com/">http://predata.com/</a></p>	<p><b>SOLUTION</b></p> <p>#1 The proposed solution is an attempt at understanding some of the non-intuitive, seemingly random, high dimensional pieces of the financial networks and apply the findings to algorithmic trading and risk analysis.</p> <p>#2 Attempts to understand stock markets, different asset classes and predict the delta. The information derived is used to trade securities. Performance is measured by returns.</p> <p><b>KEY METRICS</b></p> <p>#1 Returns</p> <p>#2 Portfolio performance</p> <p>#3 Risk?</p>	<p><b>UNIQUE VALUE PROPOSITION</b></p> <p>#1 We want to look at the system, data in it's rawest form, high dimensionality and attempt to grasp an understanding of the network.</p> <p>#2 Can we use some of the alternative or non traditional datasets to understand or explain the movement in stock prices.</p> <p>#3 Can viewing financial markets with interlinked entities help us find alternative data?</p> <p><b>HIGH-LEVEL CONCEPT</b></p>	<p><b>UNFAIR ADVANTAGE</b></p> <p>Viewing financial markets as complex adaptive systems / network lens.</p> <p><b>CHANNELS</b></p>	<p><b>CUSTOMER SEGMENTS</b></p> <p>Hedge Funds, Investors, Banks, Stock Exchanges.</p> <p><b>EARLY ADOPTERS</b></p>
<p><b>COST STRUCTURE</b></p> <p>Development costs, Research, Time.</p>		<p><b>REVENUE STREAMS</b></p>		

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