

# Equity Index

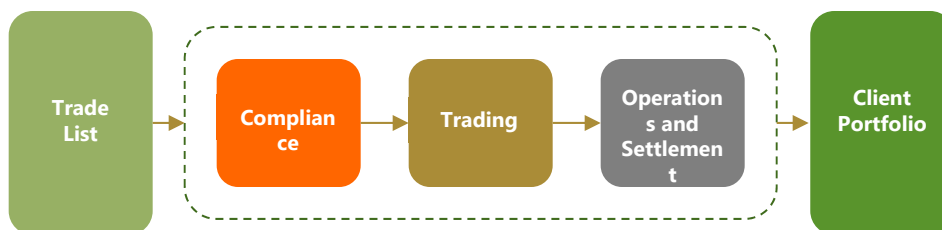
## Investment Philosophy & Approach

Geode views equity index portfolio management as an exercise in risk mitigation.

Source of Risk	Geode's Approach to Mitigating Risk
<b>Benchmark Methodology</b>	Flexible portfolio construction strategies for various benchmark providers
<b>Changes in Benchmark</b>	Determine low impact trade strategy to effect change
<b>Cash Flows</b>	Monitor activity and assess trends to best estimate & invest fully on NAV date
<b>Corporate Actions</b>	Weigh risk/reward of election alternatives versus benchmark methodology
<b>Security Misweights</b>	Choose tailored construction methodology for each portfolio/benchmark
<b>Current Events</b>	Monitor economic releases, corporate actions and current events

## Efficient Trade Implementation

- Structured trade-implementation process
- Maximize implementation efficiencies



- Smart order handling maximizes liquidity opportunities
- Economics of sale minimizes explicit transaction costs
- Compliance & risk management fully integrated into the process

**Result:** minimal market impact and low transaction costs

### AT A GLANCE

- ◆ Over \$406 billion in Equity Index under management
- ◆ Managing Equity Index Assets since 2002
- ◆ Benchmark-specific risk controls
- ◆ Team-based approach
- ◆ Portfolio Managers have 19 years average industry experience

### ABOUT GEODE

- ◆ Systematic global investment solutions across multiple asset classes
- ◆ Founded in 2001
- ◆ Located in Boston, MA
- ◆ Employee Ownership

### ASSETS UNDER MANAGEMENT\*

- ◆ \$425 billion

<b>Equity Index</b>	\$406 B
<b>Quantitative Active</b>	~\$12 B
<b>Commodities</b>	~\$6 B
<b>Absolute Return</b>	\$1.1 B

<b>Investment Professionals</b>	36
Portfolio Management	24
Research	8
Trading	4
<b>Total Firm Headcount</b>	<b>95</b>

\*Includes AUM of Geode's institutional equity and alternative investment strategies, as well as wealth management solutions

# Equity Index Customization

## THEMATIC

- Management to thematic indices
- Volatility management
- Smart beta replication

## SOCIALLY RESPONSIBLE

- Implemented with any published or custom index
- Experience collaborating with ESG vendors
- Custom inclusion/exclusion of sectors, industries, or specific stock lists

## Team Leadership



**Deane Gyllenhaal**  
*Senior Portfolio Manager*  
 28 years industry experience  
 4 years with firm



**Patrick Waddell, CFA**  
*Senior Portfolio Manager*  
 21 years industry experience  
 14 years with firm



**Lou Bottari**  
*Senior Portfolio Manager*  
 27 years industry experience  
 10 years with firm



**Peter Matthew**  
*Portfolio Manager*  
 17 years industry experience  
 11 years with firm

*As of September 30, 2018*

## Equity Index Strategies

US / Global Equity

REITs

Thematic/SRI

Mutli-Factor

Commodities

## CONTACT INFO

**Geode Capital Management**  
 One Post Office Square  
 20<sup>th</sup> Floor  
 Boston, MA 02109

**MAIN:**  
**617-563-4546**

**EMAIL:**  
[investments@geodecapital.com](mailto:investments@geodecapital.com)

**WEBSITE:**  
[www.geodecapital.com](http://www.geodecapital.com)

## Geode Advantages

**EXPERIENCE** Geode recognizes that the most sophisticated systematic processes benefit from applied fundamental insights. Our investment professionals are experienced in each of their disciplines, and work collaboratively to share expertise for the enrichment of our investment processes.

**RISK MANAGEMENT** Client portfolios are constructed in a disciplined manner with a focus on managing and controlling risk-exposures in an effort to produce optimal risk-adjusted returns.

**INSTITUTIONAL INFRASTRUCTURE** A state-of-the-art trading platform and robust operational infrastructure create efficiencies and help to provide scale across investment disciplines.

**RESEARCH** Dedicated to advanced techniques for uncovering alpha sources, Geode's research team is constantly looking for new and repeatable methods of transforming idea flow into applicable investment processes. This centralized research approach helps to ensure that the best ideas are efficiently implemented across investment strategies.

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