

## Features and Benefits

- 2 types of benchmark crosses - VWAP Price Match and Close Price Match
- Tier structure to support customizable crossing
- Access to J.P. Morgan liquidity

### VWAP Price Match

- Equal Split/Time priority matching
- Execution targeting a 5 min interval VWAP price

### Close Price Match

- Time priority matching
- Execution at primary exchange's closing auction price

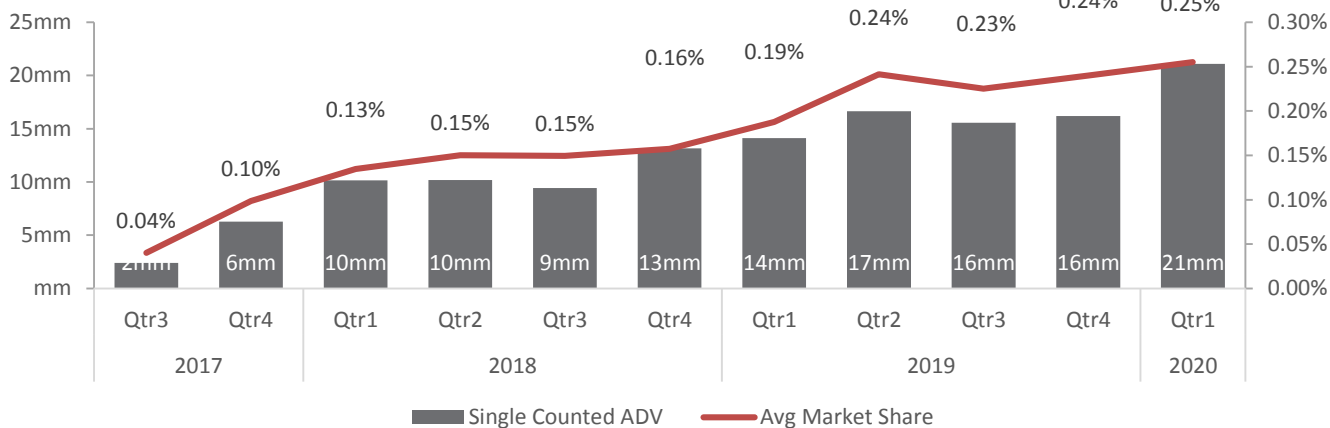
### February 2020 JPB-X Statistics

Average Daily Volume (single counted)	22.4 mm shares
# of Symbols traded	3,717 unique symbols
Average Trade Size	97 shares
VWAP Price Match Internalization Rate*	23.1%
Close Price Match Internalization Rate**	26.5%

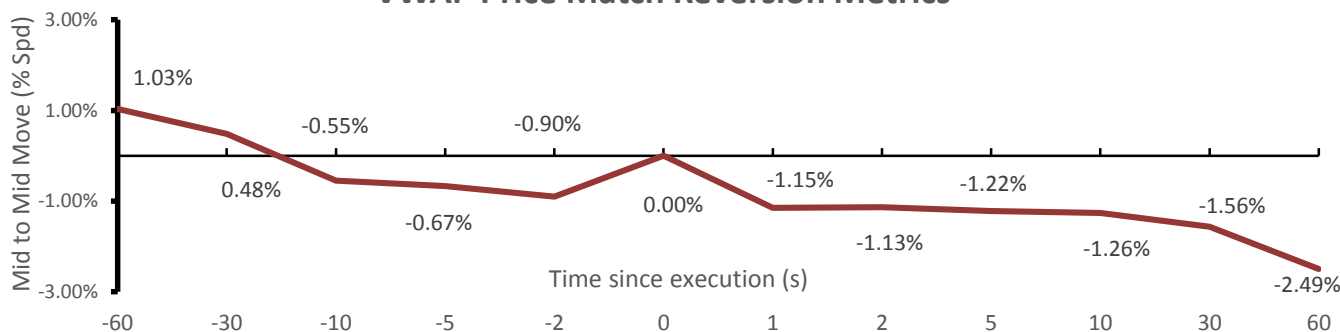
\*The number of shares executed by the VWAP strategy via VWAP Price Match, as a percentage of the number of shares executed by that strategy where VWAP Price Match was enabled.

\*\*The number of shares executed by the CLOSE, VWAP, and TWAP strategies via Close Price Match, as a percentage of the number of shares executed by those strategies where Close Price match was enabled.

### JPB-X Average Daily Volume and Market Share



### VWAP Price Match Reversion Metrics



## Tiers

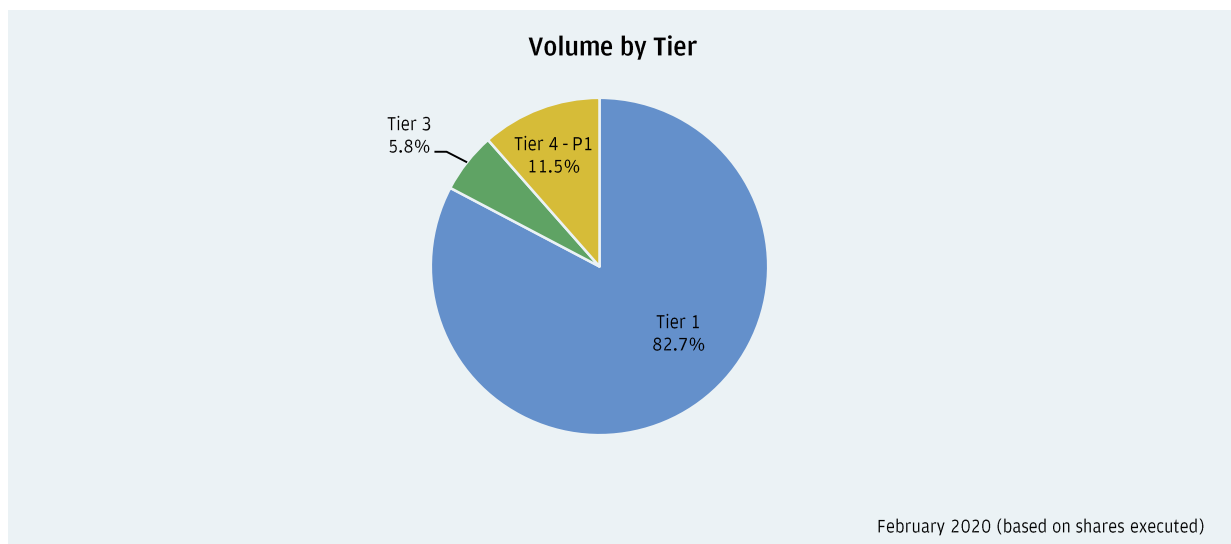
Our differentiated tiering structure allows clients to customize the order flow types with which they interact.

Order flow types are used to tier the JPB-X order book.

- **Tier 1 (Order Flow Type I-1):** Institutional investor client flow and JPMS affiliates' flow accessing JPB-X via algorithms/SOR
- **Tier 3 (Order Flow Type I-3):** U.S. registered broker-dealer client flow (both agency and principal) accessing JPB-X via algorithms/SOR
- **Tier 4 (Order Flow Type P-1):** Internal (JPMS) principal trading desk flow accessing JPB-X via algorithms/SOR

## Interaction via JPM Algorithms

- VWAP Price Match enabled by default for VWAP, TWAP and POV strategies. Can be opted-in for AQUA.
- Close Price Match enabled by default for CLOSE, VWAP and TWAP strategies



Sources: JPMorgan Tick and Trade Data, BATS Market Volume Summary [http://www.batstrading.com/market\\_summary](http://www.batstrading.com/market_summary)

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