

### **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**

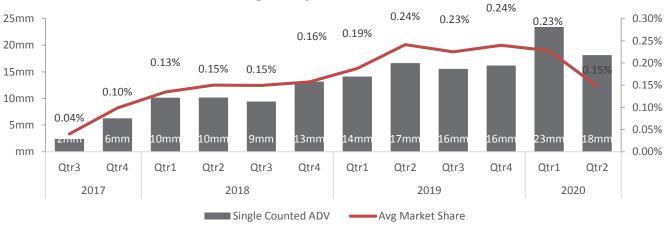
- Time priority matching
- Execution at primary exchange's closing auction price

April 2020 JPB-X Statistics	
Average Daily Volume (single counted)	18.1 mm shares
# of Symbols traded	3,560 unique symbols
Average Trade Size	90 shares
VWAP Price Match Internalization Rate*	21.2%
Close Price Match Internalization Rate**	0.0%

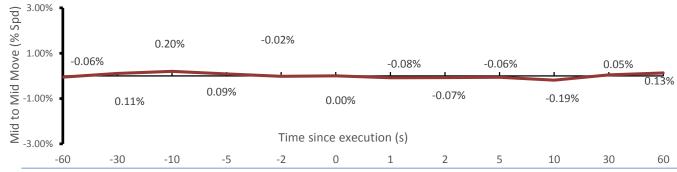
<sup>\*</sup>The number of shares executed by the VWAP strategy via VWAP Price Match, as a percentage of the number of shares executed by that strategy where VWAP Price Match was enabled.

<sup>\*\*</sup>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.





# **VWAP Price Match Reversion Metrics**





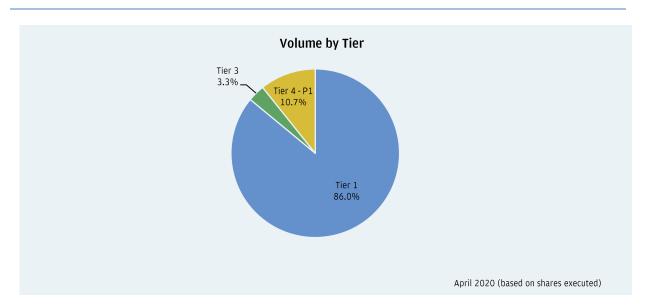
### **Tiers**

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

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