



Physical Realities of Liquidity

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A Quick Digression!

- Learn the Kyle-Obizhaeva Microstructure Invariance Model.
- It is the most important empirical paper in market microstructure.



General Comments



Physical Reality

- Someone has to own everything.
- Liquidity is about the transfer of risk from one holder to another.



Risk and Instruments

- Instruments rarely exclusively embody a single unique risk.
- They generally represent common factor risks so that many instruments are highly correlated.
- Examples
 - On- and off-the-run bonds.
 - Investment grade corporate bonds.



Concerns about Liquidity

- Extreme, unexpected demands to transfer risks can destroy value.
- Value is lost when
 - Organizational structures collapse due to bankruptcies.
 - Investors lose confidence.



Speed

- Well organized (generally slow) transfers of risk are better than chaotic (often fast) ones.
- Too much, too fast, can overwhelm the capacity to value assets.
 - People can panic.
 - Natural buyers (or sellers) often cannot react quickly enough to prevent excess volatility.
- Asset valuation, risk evaluation, and decision-making take time.



Solutions

- Reduce all frictions.
 - Improve markets and reduce search costs.
- Reduce uncertainties caused by complexities and lack of relevant information.
 - Central clearing is very beneficial.
 - Overly complex instruments are not helpful.
- Pre-plan liquidity transfers using explicit options contracts.
- Ensure that liquidity is priced everywhere.



Who will Supply Liquidity?



Bond Liquidity in the Future

- Reducing frictions that prevent the buy-side from easily meeting the buy-side will allow the buy-side to offer liquidity to the buy-side.
 - Order display facilities (electronic exchanges) need to be more readily available to all traders.
- Prop firms will replace traditional dealers.
 - They already are.



The Future is Arriving

- Electronic trading in corporate bonds is growing substantially.
 - It benefits dealers and some large institutions but not most investors.
- Half of the bonds on TRACE have two-sided quotes almost all the time.
- 230 bonds trade more than 20 times per day.

Dealing at Banks versus Prop Firms

Dealing is moving from banks to prop firms due to

- Volcker Rule
- Coarse capital requirements at banks versus portfolio margining for prop firms.
- Low capital commitment by banks due to low profitability due to low volatility.

Suggestions for Future Improvements

- NBBO and order handling rules for corporate bonds.
- Central clearing for repos (and other instruments).
 - Helps solve rehypothecation problems.
 - Reduces the overall level of uncertainty to the question of whether the clearinghouse is solvent.
 - Clearing members have strong incentives to regulate each other.



More Suggestions

- Require more capital for entities that make promises based on their balance sheets.
 - More capital transfers liquidity (and value) risk pricing to the private sector.
 - More capital lowers their costs of capital.
- Get time-varying market prices for mutual fund liquidity.

