Best practice framework

- Euro area government bond markets

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Best practice framework: US

Treasury Market Practices Group

What is it?

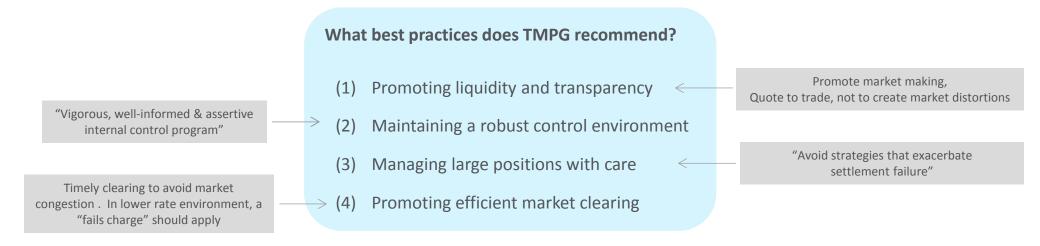
- Group of Market Professionals
- Variety of firms & functions
- Sponsored by the Fed
- www.newyorkfed.org/tmpg

TMPG "recognises importance of maintaining integrity and efficiency of US Treasury, Agency Debt & Mortgage-Backed Securities"

"Reduce market disruptions"

Reduce "episodes of protracted settlement failure"

"Buttress overall market integrity"



Focus on UST: Contents

Market Value & Turnover

Secondary Market Structure

Primary Market Structure

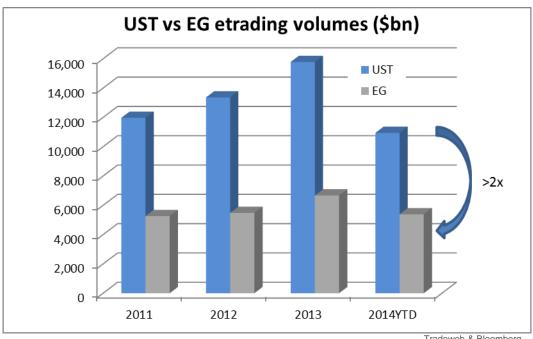
Post trade Settlement Structure

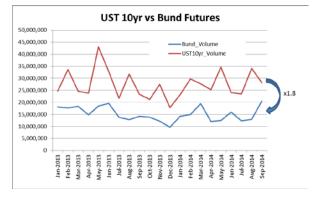


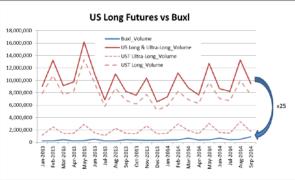
UST Market Value & Turnover

→ US Treasury outstanding debt is smaller yet turnover is larger

	Debt outstanding	Avg Daily Turnover	Annual Debt turnover
Eurogovts ex-bills	\$7tn (€5.4tn)*	\$ 104 bn (€ 80 b)^	3.7
US Govts ex-bills	\$5.9tn (€4.5tn)*	\$ 193 bn^	8.2







UST Secondary Market...

→ ...is deeper, larger, 24hr, more liquid, lower hedging costs, greater certainty to offload positions

On-The-Runs

- Highly transparent & non-ambiguous benchmarks: 2, 3, 5, 7, 10, 30 year -> EU: some confusion,
 - no harmonisation

- Trade on price in 32nds
- -> Reduction in arbitrage?
- Volumes across OTRs & OffTRs are roughly similar
- Fewer concentrated points breeds liquidity and creates deeper markets across the curve

Off-The-Runs

- All other UST coupons are "Off-The-Runs"
- Trade as a spread to OTRs
- -> Benefit to liquidity in non-benchmarks?

Futures

- Efficient hedge for both OTRs and OffTRs alike: CTD 2y, 5y, 7y, 16y, 26y - > Europe: limited hedging NL, BE,...
- Liquidity on each point is deep especially at long end -> Lacking in Europe; visibly so in times of stress
- US 10yr note future volume is ~2x Bund futures; UST long futures volumes are ~25x Buxl futures
- Futures complement liquidity in cash market -> Europe: DE exchange futures & basis substitute cash markets

Brokers

- Efficient hedge for all trading -> Europe: don't consider brokers for hedging DE
- Volume distributed ~equally across 2 major platforms
- High frequency unofficial market makers also access cash broker markets
- Technology more sophisticated through broader use of algos (for example); possible due to concentrated points of liquidity



UST Primary Market...

→ ...has greater transparency, lower risks and lower running costs

One issuer

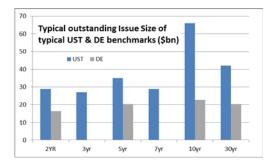
- One auction system
- One issuance calendar
- Reduces complexity
- Reduces technology costs

Primary Dealer Targets

- No market share targets
- Promotes real interest
- Lowers probability of post auction price swings as dealers race to flatten positions

Issuance Practice

- Issuance concentrated on fewer instruments
- Promotes deeper liquidity

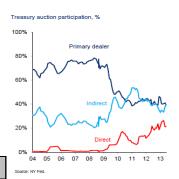


Client Orders

- Client orders entered into main auction system either:
 - (i) directly by client (e.g. central banks)
 - (ii) indirectly via dealers on behalf of clients
- Dealers can also enter orders directly

- No separate system required by dealers
- Less opportunity for discounts
- Minimises over-bidding
- Less scope for pre-auction adverse price movements
- Greater transparency

,		Indirect	Direct	Dealer
	Average 12-month 10year UST participation	45%	17%	37%



UST Post-Trade Settlement Structure...

→ ...less settlement risk, less complex, greater certainty to cover short positions

One Settlement System

Facilitates possibility of T+1

Compare Europe:

• Multiple domestic depositaries that are not incentivised to enable freer movement of collateral

Fails

- TMPG introduced a charge of 300bp preserving the integrity of the market
- Furthermore, Fed can lend bonds to banks

Compare Europe

- No common penalty system
- Compare Europe: ECB leaves banks to control liquidity

Max Post Trade Settlement Size

Compulsory break-up of trades to maximum \$50MM clips

Compare Europe

Asset Managers & Hedge Funds reluctant



Discussion Items

→ Possible to consider a European "TMPG"?

- UST best practice framework is more difficult to implement in Europe given greater restrictions but **not unachievable**
- Possible & achievable aspects to consider to improve liquidity, transparency and efficiency in European bond markets:

Centralisation Centralising information and statistics e.g. auction calendar

Reviewing auction procedures to minimise over-bidding & discounting

Maximising post-trade settlement size Settlement

• Implementing a harmonised fails charge

• ECB could create a "TMPG-Like" Group or the scope of the current ECB Bond Contact Group could be extended?

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