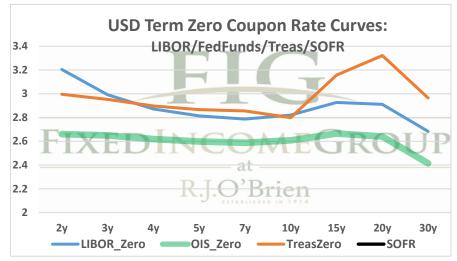
THE STIR CURVE: Distributed by The Fixed Income Group at RJ O'Brien

Making the change from LIBOR to a new reference rate is not an insignificant exercise. It will take planning and changes to processes and systems. Sonia and SOFR appear likely to offer a few options for users: compounded, setting in arrears (currently used in OIS markets) or a term rate setting in advance like LIBOR. You have questions, we have answers.





** Futures indicative prices supplied for analytics purposes only. Rates are not intended as a real-time offer to buy or sell.

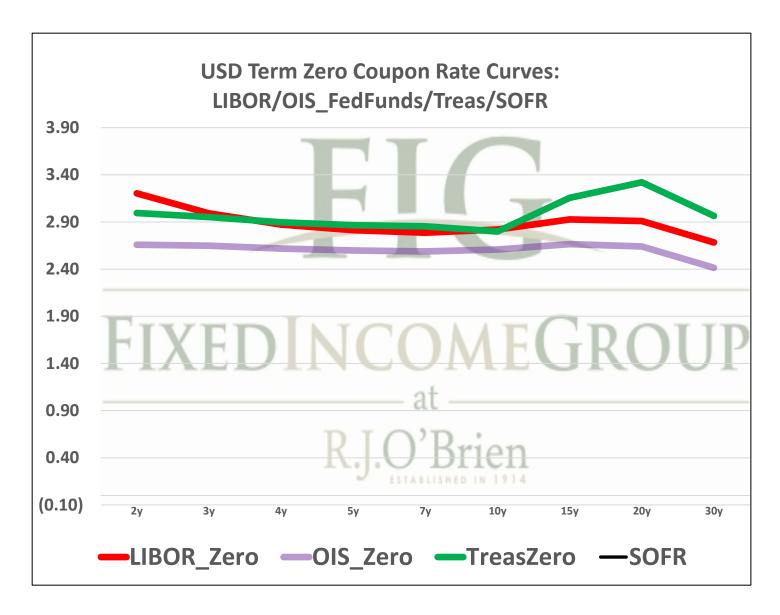
| Term SOFR from 1-day Returns | | | | | | | |
|------------------------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|
| 2.27337% | 2.53969% | 2.93138% | 3.07958% | 3.13045% | 3.10395% | 3.02544% | 2.87931% |
| 1.00195762 | 1.006490321 | 1.014982627 | 1.02343903 | 1.031739265 | 1.04733524 | 1.061433338 | 1.087658906 |
| 1mo | 3mo | 6mo | 9mo | 12mo | 18mo | 24mo | 36mo |
| 7/26/2022 | 7/26/2022 | 7/26/2022 | 7/26/2022 | 7/26/2022 | 7/26/2022 | 7/26/2022 | 7/26/2022 |
| 8/25/2022 | 10/25/2022 | 1/25/2023 | 4/25/2023 | 7/25/2023 | 1/25/2024 | 7/25/2024 | 7/25/2025 |
| 31 | 92 | 184 | 274 | 365 | 549 | 731 | 1096 |
| AMERIBOR 30T Term Curve | | | | | | | |
| 1.96764% | 2.38863% | 2.90912% | 3.18386% | 3.33053% | 3.41501% | 3.41525% | 3.38603% |
| 1.00176148 | 1.006188448 | 1.014970453 | 1.02433863 | 1.033870521 | 1.052175909 | 1.069441743 | 1.103181479 |
| 1mo | 3mo | 6mo | 9mo | 12mo | 18mo | 24mo | 36mo |
| 7/26/2022 | 7/26/2022 | 7/26/2022 | 7/26/2022 | 7/26/2022 | 7/26/2022 | 7/26/2022 | 7/26/2022 |
| 8/26/2022 | 10/26/2022 | 1/26/2023 | 4/26/2023 | 7/26/2023 | 1/26/2024 | 7/26/2024 | 7/26/2025 |
| 31 | 92 | 184 | 274 | 365 | 549 | 731 | 1096 |

For more information on the Libor replacement, contact:

Rocco Chierici:
Corrine Baynes:

312-373-5439 800-367-3349 SVP the Fixed Income Group at I VP the Fixed Income Group at RJ

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