

2 August 2022 **Credit Strategy** 

### Supply for July (€bn)

|      | Corporates | Financials |
|------|------------|------------|
| July | 2.6        | 5.6        |

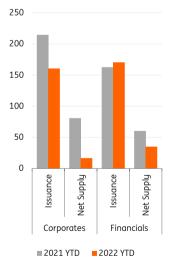
Source: ING, Dealogic

### Supply FY and YTD (€bn)

| Corporates                   | FY                       | YTD                      |
|------------------------------|--------------------------|--------------------------|
| 2016                         | 307                      | 191                      |
| 2017                         | 324                      | 214                      |
| 2018                         | 282                      | 175                      |
| 2019                         | 392                      | 223                      |
| 2020                         | 445                      | 329                      |
| 2021                         | 344                      | 215                      |
| 2022                         | 161                      | 161                      |
|                              |                          |                          |
| Financials                   | FY                       | YTD                      |
| Financials<br>2016           | <b>FY</b> 235            | <b>YTD</b> 178           |
|                              |                          |                          |
| 2016                         | 235                      | 178                      |
| 2016<br>2017                 | 235<br>228               | 178<br>149               |
| 2016<br>2017<br>2018         | 235<br>228<br>226        | 178<br>149<br>154        |
| 2016<br>2017<br>2018<br>2019 | 235<br>228<br>226<br>268 | 178<br>149<br>154<br>169 |

Source: ING, Dealogic

### Supply and Net Supply YTD



Source: ING, Dealogic

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## **Euro Credit Supply**

### Record low supply in July



### Supply in July is a record low at just €2.6bn

- Corporate supply amounted to only €2.6bn in July, a record low for monthly supply. The current higher rates and wider spreads environment has pushed all-in funding costs higher. Furthermore, with corporates starting 2022 more cash rich than ever and many corporates having pre-funded over 2020 and 2021 to take advantage of the low yield environment, there is little urgency for corporates to come to market.
- Corporate supply is now sitting at €161bn, up from €158bn in June on a YTD basis. This continues to be the lowest YTD figure of the past few years. We forecast supply to be only another €100bn or so, to close the year out at €250-260bn. This will be nearly €100bn lower than 2021. On a YTD basis, the Utilities sector has seen the largest credit supply with €33.7bn while the Healthcare sector has seen the lowest credit supply with €13bn. In terms of maturity, the 6-9yr maturity bucket has seen the most credit supply with €46.6bn.
- Many hybrids were priced at relatively lower costs compared to the significantly higher all-in funding cost currently. Therefore, for some issuers it would make mathematical sense to extend their hybrid bond, in order to lock in the lower rates. In particular, the more infrequent hybrid issuers from more higher beta sectors or inflationary sensitive sectors seem to be most prone to this possibility, if and when they do not have significant outstanding curves, although reputational risk would be detrimental to future capital funding.
- Reverse Yankee supply has also been limited this year, at just €18.7bn YTD. EUR spreads have underperformed against USD spreads over the past month. Thus, the USD-EUR differential has widened out significantly. This does open the door for some Reverse Yankee supply in the 10yr. However, as overall supply is low, we do not expect Reverse Yankee supply to be substantial.

### Covered bond supply is substantial, but set to slow down in the second half

- Financial supply dropped substantially to €5.6bn from €19bn last June. This is lowest supply amount seen this year beating June and on par with July's amount last year. Financial credit supply is now sitting at €171bn YTD, in line with previous years. We forecast financial supply (excluding covered bonds) to reach up to €290bn by the year-end.
- Covered bonds have been very substantial this year, with another €11bn in June, pushing the YTD figure up to €128bn. This already well exceeds the full year figures in 2020 and 2021. We expect covered bond supply to be lower in the second half of the year as we forecast supply to reach €150bn by the year-end.

Fig 1 Euro corporate supply overview (€bn)

|                        | 2018 | 2019 | 2020 | 2021 | 2021 Jul | 2022 Jun | 2022 Jul | 2021 YTD | 2022 YTD | % diff |
|------------------------|------|------|------|------|----------|----------|----------|----------|----------|--------|
| Auto                   | 53   | 55   | 39   | 32   | 3        | 2        | -        | 25       | 17       | -31%   |
| Consumer               | 25   | 37   | 67   | 38   | 1        | 0        | -        | 22       | 18       | -19%   |
| Healthcare             | 36   | 52   | 39   | 22   | 0        | 1        | -        | 8        | 13       | 62%    |
| Industrial & Chemicals | 36   | 56   | 74   | 60   | 2        | 3        | 2        | 36       | 27       | -26%   |
| Real Estate            | 28   | 32   | 39   | 61   | 2        | 1        | 0        | 39.0     | 20.3     | -48%   |
| TMT                    | 42   | 75   | 68   | 39   | 2        | 2        | -        | 27       | 16       | -42%   |
| Utility                | 34   | 46   | 52   | 52   | 1        | 4        | 1        | 31.2     | 33.7     | 8%     |
| Others                 | 17   | 27   | 19   | 26   | 1        | 4        | 0        | 15       | 14       | -3%    |
| Corporate Hybrid       | 19   | 22   | 42   | 36   | 0        | -        | -        | 25       | 8        | -67%   |

Source: ING, Dealogic

Fig 2 Euro financial supply overview (€bn)

|                    | 2018 | 2019 | 2020 | 2021 | 2021 Jul | 2022 Jun | 2022 Jul | 2021 YTD | 2022 YTD | % diff |
|--------------------|------|------|------|------|----------|----------|----------|----------|----------|--------|
| Bank Senior        | 165  | 174  | 139  | 145  | 3        | 13       | 6        | 90       | 119      | 32%    |
| of which Bail-in   | 60   | 82   | 77   | 51   | 2        | 1        | 3        | 42       | 43       | 3%     |
| of which Pref      | 105  | 92   | 62   | 94   | 1        | 12       | 2        | 49       | 76       | 56%    |
| Bank Capital       | 21   | 31   | 39   | 39   | 0        | 2        | -        | 23       | 14       | -42%   |
| Financial Services | 27   | 41   | 36   | 60   | 1        | 3        | 0        | 36       | 27       | -27%   |
| Insurance          | 12   | 22   | 20   | 21   | 0        | 1        | -        | 12       | 11       | -9%    |
| Covered            | 150  | 151  | 101  | 101  | 6        | 11       | 7        | 54       | 135      | 149%   |

Note: Dealogic sorts some Banks into the Financial Services sector

Source: ING, Dealogic

Fig 3 Euro corporate supply and net supply by month (€bn)

| Issuance    | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul   | Aug  | Sep  | Oct  | Nov  | Dec  | Total |
|-------------|------|------|------|------|------|------|-------|------|------|------|------|------|-------|
| 2018        | 26.6 | 17.4 | 36.2 | 22.3 | 31.6 | 26.0 | 13.8  | 17.7 | 36.4 | 18.1 | 30.4 | 5.4  | 281.9 |
| 2019        | 34.3 | 30.9 | 36.5 | 16.7 | 36.9 | 42.9 | 22.1  | 22.9 | 58.2 | 39.8 | 42.4 | 8.5  | 392.2 |
| 2020        | 28.7 | 35.4 | 49.4 | 68.6 | 62.1 | 62.9 | 21.8  | 6.6  | 49.6 | 28.7 | 21.2 | 9.7  | 444.6 |
| 2021        | 37.0 | 28.4 | 45.0 | 21.8 | 34.6 | 37.8 | 10.1  | 19.8 | 43.8 | 26.3 | 35.1 | 4.6  | 344.3 |
| 2022        | 37.4 | 14.1 | 47.4 | 10.3 | 31.9 | 16.9 | 2.6   |      |      |      |      |      | 160.7 |
| Net Supply  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul   | Aug  | Sep  | Oct  | Nov  | Dec  | Total |
| 2018        | 14.0 | -3.4 | 21.4 | 9.0  | 17.6 | 11.0 | 2.1   | 11.1 | 28.1 | 2.4  | 12.7 | -2.5 | 123.3 |
| 2019        | 16.4 | 18.3 | 14.1 | 3.2  | 26.0 | 29.1 | 4.3   | 18.9 | 38.8 | 30.3 | 22.6 | -1.5 | 220.5 |
| 2020        | 7.4  | 27.2 | 19.1 | 52.5 | 40.6 | 52.6 | 5.0   | -1.6 | 29.3 | 13.4 | -4.2 | -0.6 | 240.5 |
| 2021        | 14.9 | 12.4 | 14.0 | 5.6  | 17.0 | 19.3 | -2.3  | 10.1 | 24.0 | 8.6  | 15.8 | -9.5 | 129.8 |
| Redemptions | 21.9 | 17.2 | 28.5 | 17.9 | 18.5 | 25.3 | 14.6  | 7.0  | 27.4 | 10.4 | 21.8 | 12.6 | 223.2 |
| 2022        | 15.5 | -3.1 | 18.9 | -7.6 | 13.4 | -8.4 | -12.0 |      |      |      |      |      | 16.7  |

Redemptions shown for 2022 only

Source: ING, Dealogic

Fig 4 Euro financial supply and net supply by month (€bn)

| Issuance    | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Total |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 2018        | 27.4 | 20.8 | 33.7 | 22.0 | 13.1 | 11.5 | 25.4 | 20.5 | 24.6 | 6.4  | 19.3 | 1.2  | 225.8 |
| 2019        | 27.6 | 25.7 | 21.9 | 26.0 | 19.0 | 33.7 | 14.5 | 14.5 | 27.0 | 25.2 | 27.9 | 5.2  | 268.2 |
| 2020        | 45.2 | 18.6 | 14.7 | 26.1 | 24.8 | 27.9 | 13.2 | 8.7  | 13.2 | 16.6 | 22.5 | 2.7  | 234.0 |
| 2021        | 28.4 | 32.4 | 28.6 | 15.0 | 29.8 | 23.1 | 5.5  | 12.2 | 36.8 | 21.9 | 28.7 | 3.1  | 265.6 |
| 2022        | 38.0 | 22.2 | 32.1 | 22.1 | 30.8 | 19.6 | 5.6  |      |      |      |      |      | 170.5 |
| Net Supply  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Total |
| 2018        | -0.5 | 1.0  | 7.5  | 5.6  | -3.6 | -3.7 | 15.0 | 16.1 | 13.0 | -5.0 | 7.0  | -7.9 | 44.5  |
| 2019        | 5.3  | 12.5 | 0.2  | 6.0  | 0.3  | 18.5 | 3.9  | 2.2  | 5.9  | 10.6 | 15.2 | -1.0 | 79.6  |
| 2020        | 21.0 | -1.0 | -2.6 | 10.8 | 14.5 | 6.7  | -3.5 | -3.1 | -3.5 | 11.3 | 0.2  | -8.7 | 42.1  |
| 2021        | 7.1  | 17.5 | 8.9  | 0.1  | 20.0 | 9.8  | -2.8 | 6.6  | 10.7 | 11.3 | 13.5 | -6.2 | 96.4  |
| Redemptions | 34.4 | 20.7 | 23.2 | 17.8 | 13.8 | 14.4 | 11.0 | 10.0 | 24.5 | 16.9 | 12.4 | 12.0 | 211.0 |
| 2022        | 3.6  | 1.6  | 9.0  | 4.2  | 17.0 | 5.2  | -5.4 |      |      |      |      |      | 35.2  |

Covered Bonds excluded from aggregate throughout

Redemptions shown for 2022 only

Source: ING, Dealogic

Fig 5 Corporate supply and redemptions by month, 2022 (€bn)

| Supply      | Jan  | Feb | Mar  | Apr | May  | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|-------------|------|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-------|
| Autos       | 5.2  | 3.4 | 5.1  | 0.0 | 1.5  | 2.0 | 0.0 |     |     |     |     |     | 17.2  |
| Consumer    | 0.0  | 1.2 | 7.3  | 5.3 | 3.6  | 0.3 | 0.0 |     |     |     |     |     | 17.6  |
| Healthcare  | 0.0  | 0.1 | 8.2  | 0.1 | 4.0  | 1.0 | 0.0 |     |     |     |     |     | 13.4  |
| Industrial  | 3.0  | 1.6 | 10.2 | 1.4 | 6.3  | 3.0 | 1.5 |     |     |     |     |     | 27.1  |
| Real Estate | 13.0 | 0.8 | 4.6  | 0.6 | 0.7  | 0.6 | 0.1 |     |     |     |     |     | 20.3  |
| TMT         | 2.6  | 5.3 | 3.3  | 0.2 | 2.5  | 1.8 | 0.0 |     |     |     |     |     | 15.5  |
| Utility     | 9.2  | 1.0 | 5.7  | 1.2 | 11.8 | 4.2 | 0.7 |     |     |     |     |     | 33.7  |
| Others      | 2.8  | 0.7 | 3.3  | 1.6 | 1.4  | 4.0 | 0.4 |     |     |     |     |     | 14.1  |
| Redemptions | Jan  | Feb | Mar  | Apr | May  | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Autos       | 3.6  | 2.0 | 2.0  | 4.2 | 2.5  | 3.3 | 2.8 | 2.4 | 5.3 | 0.1 | 3.2 | 0.8 | 31.9  |
| Consumer    | 0.6  | 4.3 | 3.6  | 1.2 | 2.2  | 0.7 | 1.1 | 1.7 | 2.8 | 0.0 | 3.4 | 0.8 | 22.4  |
| Healthcare  | 2.5  | 1.3 | 2.9  | 0.7 | 0.2  | 2.4 | 0.6 | 0.0 | 1.4 | 0.0 | 2.4 | 2.9 | 17.1  |
| Industrial  | 4.7  | 2.1 | 5.0  | 1.3 | 5.0  | 3.5 | 3.5 | 1.4 | 2.8 | 2.3 | 2.1 | 2.9 | 36.6  |
| Real Estate | 2.0  | 0.2 | 0.7  | 0.9 | 1.8  | 1.2 | 1.2 | 0.5 | 1.6 | 2.6 | 1.3 | 1.0 | 15.1  |
| TMT         | 2.1  | 3.1 | 5.8  | 3.1 | 3.1  | 8.2 | 3.2 | 0.8 | 3.0 | 0.9 | 2.7 | 2.6 | 38.3  |
| Utility     | 5.9  | 3.2 | 2.9  | 1.8 | 1.5  | 4.5 | 1.5 | 0.0 | 5.9 | 3.0 | 3.5 | 0.1 | 33.7  |
| Others      | 0.5  | 1.2 | 1.1  | 0.9 | 1.0  | 1.5 | 0.7 | 0.2 | 2.3 | 1.0 | 1.9 | 1.6 | 13.8  |

Source: ING, Dealogic

Fig 6 Financial supply and redemptions by month, 2022 (€bn)

| Supply   | Jan                        | Feb                        | Mar                        | Apr                        | May                      | Jun                      | Jul                      | Aug                      | Sep                        | Oct                        | Nov                        | Dec                      | Total                          |
|--|----------------------------|----------------------------|----------------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|--------------------------|--------------------------------|
| Bank Senior  | 28.0                       | 16.7                       | 18.6                       | 15.5                       | 21.9                     | 13.1                     | 5.6                      |                          |                            |                            |                            |                          | 119.3                          |
| of which NPS   | 12.4                       | 6.9                        | 3.8                        | 7.3                        | 8.0                      | 1.4                      | 3.3                      |                          |                            |                            |                            |                          | 42.9                           |
| of which Pref  | 15.5                       | 9.8                        | 14.8                       | 8.2                        | 13.9                     | 11.7                     | 2.3                      |                          |                            |                            |                            |                          | 76.4                           |
| Bank Capital   | 3.0                        | 0.7                        | 5.8                        | 0.9                        | 1.0                      | 2.3                      | 0.0                      |                          |                            |                            |                            |                          | 13.6                           |
| Financial Services   | 4.8                        | 4.3                        | 5.8                        | 4.0                        | 4.4                      | 3.2                      | 0.0                      |                          |                            |                            |                            |                          | 26.5                           |
| Insurance  | 2.3                        | 0.6                        | 2.0                        | 1.8                        | 3.5                      | 1.0                      | 0.0                      |                          |                            |                            |                            |                          | 11.1                           |
| Covered  | 28.9                       | 16.8                       | 34.9                       | 13.5                       | 23.4                     | 10.9                     | 6.6                      |                          |                            |                            |                            |                          | 134.9                          |
|  |                            |                            |                            |                            |                          |                          |                          |                          |                            |                            |                            |                          |                                |
| Redemptions  | Jan                        | Feb                        | Mar                        | Apr                        | May                      | Jun                      | Jul                      | Aug                      | Sep                        | Oct                        | Nov                        | Dec                      | Total                          |
| Redemptions Bank Senior                                      | <b>Jan</b> 32.2            | <b>Feb</b> 16.1            | <b>Mar</b> 20.0            | <b>Apr</b> 16.8            | <b>May</b><br>8.6        | <b>Jun</b><br>9.3        | <b>Jul</b><br>9.1        | <b>Aug</b><br>9.2        | <b>Sep</b> 21.7            | Oct<br>11.4                | <b>Nov</b> 11.7            | <b>Dec</b> 8.7           | <b>Total</b> 174.8             |
| •  |                            |                            |                            |                            |                          |                          |                          |                          | · ·                        |                            |                            |                          |                                |
| Bank Senior  | 32.2                       | 16.1                       | 20.0                       | 16.8                       | 8.6                      | 9.3                      | 9.1                      | 9.2                      | 21.7                       | 11.4                       | 11.7                       | 8.7                      | 174.8                          |
| Bank Senior<br>of which NPS                                  | 32.2<br>3.0                | 16.1<br>6.0                | 20.0<br>5.8                | 16.8<br>4.3                | 8.6<br>1.4               | 9.3<br>0.3               | 9.1<br>0.0               | 9.2<br>0.8               | 21.7                       | 11.4<br>0.0                | 11.7<br>1.5                | 8.7<br>0.0               | 174.8<br>32.1                  |
| Bank Senior<br>of which NPS<br>of which Pref                 | 32.2<br>3.0<br>29.2        | 16.1<br>6.0<br>10.1        | 20.0<br>5.8<br>14.1        | 16.8<br>4.3<br>12.6        | 8.6<br>1.4<br>7.2        | 9.3<br>0.3<br>9.0        | 9.1<br>0.0<br>9.1        | 9.2<br>0.8<br>8.4        | 21.7<br>9.0<br>12.7        | 11.4<br>0.0<br>11.4        | 11.7<br>1.5<br>10.2        | 8.7<br>0.0<br>8.7        | 174.8<br>32.1<br>142.7         |
| Bank Senior<br>of which NPS<br>of which Pref<br>Bank Capital | 32.2<br>3.0<br>29.2<br>1.0 | 16.1<br>6.0<br>10.1<br>2.0 | 20.0<br>5.8<br>14.1<br>2.8 | 16.8<br>4.3<br>12.6<br>4.4 | 8.6<br>1.4<br>7.2<br>0.0 | 9.3<br>0.3<br>9.0<br>1.8 | 9.1<br>0.0<br>9.1<br>0.2 | 9.2<br>0.8<br>8.4<br>0.0 | 21.7<br>9.0<br>12.7<br>2.0 | 11.4<br>0.0<br>11.4<br>0.8 | 11.7<br>1.5<br>10.2<br>2.3 | 8.7<br>0.0<br>8.7<br>0.0 | 174.8<br>32.1<br>142.7<br>17.1 |

Source: ING, Dealogic

Fig 7 Euro supply, redemptions and net supply by year (€bn)

| Corporates | YTD   | FY    | Reds  | Net   | Financials | YTD   | FY    | Reds  | Net    |
|------------|-------|-------|-------|-------|------------|-------|-------|-------|--------|
| 2011       | 70.6  | 109.2 | 107.5 | 1.7   | 2011       | 172.5 | 204.9 | 387.8 | -183.0 |
| 2012       | 120.5 | 222.1 | 111.7 | 110.4 | 2012       | 123.7 | 201.8 | 412.0 | -210.2 |
| 2013       | 137.9 | 235.9 | 141.2 | 94.6  | 2013       | 119.7 | 205.6 | 341.0 | -135.4 |
| 2014       | 158.5 | 267.7 | 165.7 | 102.1 | 2014       | 182.8 | 266.5 | 323.1 | -56.6  |
| 2015       | 188.2 | 276.3 | 122.1 | 154.2 | 2015       | 175.2 | 257.4 | 320.7 | -63.3  |
| 2016       | 191.4 | 307.2 | 144.5 | 162.7 | 2016       | 178.0 | 235.5 | 262.4 | -27.0  |
| 2017       | 214.2 | 324.3 | 155.3 | 169.1 | 2017       | 149.1 | 227.6 | 270.5 | -42.9  |
| 2018       | 175.2 | 281.9 | 158.5 | 123.3 | 2018       | 153.9 | 225.8 | 181.3 | 44.5   |
| 2019       | 223.4 | 392.2 | 171.8 | 220.5 | 2019       | 169.4 | 268.2 | 188.6 | 79.6   |
| 2020       | 328.9 | 444.6 | 204.1 | 240.5 | 2020       | 170.3 | 234.0 | 191.9 | 42.1   |
| 2021       | 214.7 | 344.3 | 214.4 | 129.8 | 2021       | 162.8 | 265.6 | 169.2 | 96.4   |
| 2022       | 160.7 | 160.7 | 223.2 |       | 2022       | 170.5 | 170.5 | 211.0 |        |
| 2023       |       |       | 246.0 |       | 2023       |       |       | 183.7 |        |
| 2024       |       |       | 253.4 |       | 2024       |       |       | 174.4 |        |

Source: ING, Dealogic

Fig 8 Subordinated supply, 2021 and 2022 (€bn)

| 2021         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| AT1          | 0.8 | 0.2 | 0.5 | 0.8 | 2.3 | 1.9 | 0.1 | 0.0 | 2.5 | 0.0 | 2.5 | 0.0 | 11.4  |
| T2           | 1.8 | 0.8 | 4.5 | 1.1 | 3.5 | 2.8 | 0.1 | 1.8 | 2.1 | 2.8 | 3.9 | 0.0 | 24.9  |
| Bank Capital | 2.5 | 1.0 | 5.0 | 1.8 | 5.7 | 4.6 | 0.2 | 1.8 | 4.6 | 2.8 | 6.4 | 0.0 | 36.3  |
| Corp Hybrids | 6.9 | 4.2 | 4.2 | 1.9 | 4.7 | 2.8 | 0.3 | 2.5 | 5.6 | 0.6 | 2.6 | 0.0 | 36.0  |
| 2022         | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| AT1          | 0.2 | 0.2 | 2.8 | 0.3 | 0.0 | 0.3 | 0.0 |     |     |     |     |     | 3.7   |
| T2           | 2.8 | 0.0 | 3.0 | 0.5 | 1.0 | 2.0 | 0.0 |     |     |     |     |     | 9.3   |
| Bank Capital | 3.0 | 0.2 | 5.8 | 0.8 | 1.0 | 2.3 | 0.0 |     |     |     |     |     | 13.0  |
| Corp Hybrids | 2.1 | 1.0 | 4.1 | 1.0 | 0.0 | 0.0 | 0.0 |     |     |     |     |     | 8.2   |

Source: ING, Dealogic

Fig 9 Reverse Yankee supply, 2021 and 2022 (€bn)

| _         |     |     |      |     |     |     |     |     |      |      |     |     |       |
|-----------|-----|-----|------|-----|-----|-----|-----|-----|------|------|-----|-----|-------|
| 2021      | Jan | Feb | Mar  | Apr | May | Jun | Jul | Aug | Sep  | Oct  | Nov | Dec | Total |
| Corporate | 2.1 | 5.2 | 11.7 | 2.8 | 4.5 | 0.1 | 0.5 | 3.7 | 13.9 | 9.7  | 5.4 | 0.0 | 59.5  |
| Financial | 3.4 | 3.6 | 3.8  | 5.3 | 4.6 | 0.6 | 0.6 | 0.4 | 6.0  | 6.8  | 3.8 | 0.0 | 38.8  |
| Total     | 5.5 | 8.8 | 15.5 | 8.1 | 9.1 | 0.6 | 1.1 | 4.1 | 19.9 | 16.5 | 9.2 | 0.0 | 98.3  |
| 2022      | Jan | Feb | Mar  | Apr | May | Jun | Jul | Aug | Sep  | Oct  | Nov | Dec | Total |
| Corporate | 2.3 | 2.6 | 6.4  | 0.6 | 2.9 | 2.5 | 1.5 |     |      |      |     |     | 18.7  |
| Financial | 0.8 | 3.0 | 3.8  | 4.5 | 7.0 | 0.0 | 0.0 |     |      |      |     |     | 19.0  |
| Total     | 3.1 | 5.6 | 10.1 | 5.0 | 9.9 | 2.5 | 1.5 |     |      |      |     |     | 37.7  |
|           |     |     |      |     |     |     |     |     |      |      |     |     |       |

Source: ING, Dealogic

Fig 10 XCCY 5yr

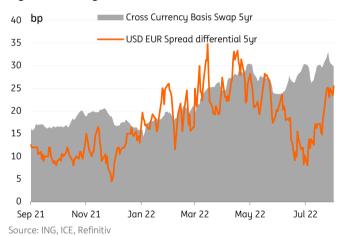


Fig 12 European, Yankee and Reverse Yankee supply (€bn) Corporates Yankee (US\$) Rev Yankee **Financials** Yankee (US\$) Rev Yankee European European 2011 5.7 84.6 91.6 6.4 165.9 90.1 158.4 140.2 16.7 2012 156.2 59.4 7.6 155.2 112.5 32.5 2013 145.4 77.5 14.4 174.4 153.6 112.2 42.9 2014 126.1 32.4 146.2 108.8 62.1 2015 145.7 128.0 28.7 177.1 114.5 65.9 2016 134.0 115.0 45.5 193.0 102.4 65.2 2017 131.3 113.9 35.8 129.8 2018 181.5 31.7 127.1 133.1 17.7 235.5 95.4 99.3 2019 175.6 28.3 96.2

2020

2021

2022

68.4

59.5

18.7

281.6

195.7

104.8

117.4

94.3

43.2

Source: ING

2011

2012

2013

2014

2015

2016

2017

2018

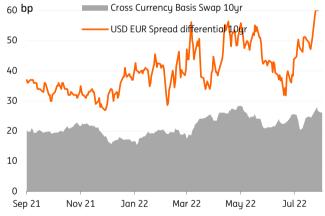
2019

2020

2021

2022

Fig 11 XCCY 10yr



152.3

139.9

90.4

125.2

168.1

79.2

Source: ING, ICE, Refinitiv

24.0

38.8

19.0

Fig 13 ESG supply per month 2022 (€bn)

| Corporate   | Jan  | Feb | Mar  | Apr | May  | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|-------------|------|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-------|
| Green       | 9.3  | 1.0 | 9.4  | 2.2 | 12.1 | 4.4 | 1.0 |     |     |     |     |     | 39.3  |
| Social      | 0.7  | 0.0 | 1.7  | 0.0 | 0.0  | 0.0 | 0.0 |     |     |     |     |     | 2.4   |
| Sustainable | 0.5  | 0.0 | 0.0  | 0.6 | 1.5  | 0.0 | 0.0 |     |     |     |     |     | 2.6   |
| ESG         | 10.5 | 1.0 | 11.1 | 2.8 | 13.6 | 4.4 | 1.0 |     |     |     |     |     | 44.2  |
| Financial   | Jan  | Feb | Mar  | Apr | May  | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Green       | 5.1  | 4.6 | 1.3  | 2.5 | 4.8  | 5.4 | 1.2 |     |     |     |     |     | 24.8  |
| Social      | 1.0  | 0.0 | 1.0  | 0.0 | 0.0  | 0.0 | 0.0 |     |     |     |     |     | 2.0   |
| Sustainable | 0.3  | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0 |     |     |     |     |     | 0.3   |
| ESG         | 6.4  | 4.6 | 2.3  | 2.5 | 4.8  | 5.4 | 1.2 |     |     |     |     |     | 27.1  |
| Covered     | Jan  | Feb | Mar  | Apr | May  | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
| Green       | 0.0  | 1.5 | 1.8  | 1.0 | 2.8  | 1.0 | 1.0 |     |     |     |     |     | 9.0   |
| Social      | 0.0  | 0.0 | 0.6  | 0.5 | 1.3  | 0.0 | 0.5 |     |     |     |     |     | 2.9   |
| Sustainable | 0.0  | 0.0 | 0.0  | 0.0 | 0.0  | 0.5 | 0.0 |     |     |     |     |     | 0.5   |
| ESG         | 0.0  | 1.5 | 2.4  | 1.5 | 4.0  | 1.5 | 1.5 |     |     |     |     |     | 12.4  |

Source: ING, Dealogic – classified as ESG under Dealogic

Fig 14 ESG supply per year and YTD (€bn)

| Corporate   | 2018 | 2019 | 2020 | 2021 | 2022 | 2018 YTD | 2019 YTD | 2020 YTD | 2021 YTD | 2022 YTD |
|-------------|------|------|------|------|------|----------|----------|----------|----------|----------|
| Green       | 12.2 | 29.4 | 34.9 | 61.6 | 39.3 | 8.1      | 18.6     | 21.6     | 33.0     | 39.3     |
| Social      | 0.3  | 0.0  | 1.3  | 3.5  | 2.4  | 0.3      | 0.0      | 0.0      | 3.2      | 2.4      |
| Sustainable | 0.0  | 0.9  | 2.6  | 6.1  | 2.6  | 0.0      | 0.9      | 1.1      | 2.7      | 2.6      |
| ESG         | 12.5 | 30.3 | 38.8 | 71.2 | 44.2 | 8.4      | 19.5     | 22.6     | 38.8     | 44.2     |
| Financial   | 2018 | 2019 | 2020 | 2021 | 2022 | 2018 YTD | 2019 YTD | 2020 YTD | 2021 YTD | 2022 YTD |
| Green       | 12.9 | 21.8 | 17.9 | 42.5 | 24.8 | 5.3      | 12.0     | 8.9      | 26.5     | 24.8     |
| Social      | 1.3  | 2.8  | 4.8  | 7.5  | 2.0  | 0.0      | 0.0      | 3.8      | 4.5      | 2.0      |
| Sustainable | 0.8  | 2.1  | 1.8  | 5.5  | 0.3  | 0.8      | 0.6      | 0.5      | 3.9      | 0.3      |
| ESG         | 14.9 | 26.7 | 24.6 | 55.5 | 27.1 | 6.1      | 12.6     | 13.3     | 35.0     | 27.1     |
| Covered     | 2018 | 2019 | 2020 | 2021 | 2022 | 2018 YTD | 2019 YTD | 2020 YTD | 2021 YTD | 2022 YTD |
| Green       | 4.5  | 4.5  | 5.1  | 10.8 | 9.0  | 3.0      | 1.5      | 3.6      | 4.8      | 9.0      |
| Social      | 1.0  | 2.0  | 2.5  | 4.8  | 2.9  | 0.0      | 1.5      | 2.5      | 3.8      | 2.9      |
| Sustainable | 0.5  | 0.0  | 0.6  | 0.7  | 0.5  | 0.5      | 0.0      | 0.5      | 0.0      | 0.5      |
| ESG         | 6.0  | 6.5  | 8.2  | 16.3 | 12.4 | 3.5      | 3.0      | 6.6      | 8.5      | 12.4     |

Source: ING, Dealogic - classified as ESG under Dealogic

Fig 15 Investment grade issuance by maturity, 2021 and 2022 (US\$bn)

| 2021        | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul | Aug | Sep  | Oct | Nov  | Dec | 2020  |
|-------------|------|------|------|------|------|------|-----|-----|------|-----|------|-----|-------|
| Corp 0-3yr  | 3.6  | 1.4  | 1.1  | 1.2  | 2.0  | 2.5  | 1.4 | 1.5 | 1.0  | 3.7 | 5.2  | 0.0 | 24.5  |
| Corp 3-6yr  | 3.9  | 2.9  | 7.7  | 2.9  | 7.5  | 6.5  | 1.0 | 3.6 | 5.2  | 2.3 | 5.0  | 1.9 | 50.4  |
| Corp 6-9yr  | 9.5  | 9.2  | 13.4 | 5.6  | 13.3 | 12.7 | 3.5 | 5.7 | 13.3 | 7.4 | 9.7  | 1.1 | 104.3 |
| Corp 9-12yr | 6.9  | 6.0  | 8.9  | 2.0  | 5.4  | 4.2  | 3.1 | 2.5 | 9.0  | 3.3 | 5.8  | 0.3 | 57.2  |
| Corp 12yrs+ | 13.0 | 8.8  | 13.8 | 10.1 | 7.6  | 11.1 | 1.1 | 6.5 | 15.3 | 9.7 | 10.1 | 1.1 | 108.2 |
| Fin 0-3yr   | 1.0  | 0.8  | 0.4  | 4.9  | 1.7  | 2.1  | 0.6 | 1.8 | 2.1  | 0.8 | 4.8  | 0.0 | 20.9  |
| Fin 3-6yr   | 3.3  | 5.9  | 8.0  | 1.8  | 5.7  | 2.4  | 0.4 | 2.1 | 6.0  | 5.0 | 8.9  | 1.5 | 51.0  |
| Fin 6-9yr   | 8.2  | 12.0 | 5.7  | 5.1  | 8.8  | 10.5 | 3.1 | 5.2 | 16.6 | 4.1 | 5.7  | 1.0 | 86.0  |
| Fin 9-12yr  | 9.9  | 9.9  | 8.3  | 1.7  | 8.6  | 3.3  | 0.7 | 1.1 | 5.5  | 5.3 | 4.2  | 0.2 | 58.7  |
| Fin 12yrs+  | 6.0  | 3.7  | 6.1  | 1.5  | 5.1  | 5.0  | 0.7 | 2.0 | 6.6  | 6.7 | 5.0  | 0.5 | 48.9  |
| 2022        | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul | Aug | Sep  | Oct | Nov  | Dec | YTD   |
| Corp 0-3yr  | 5.7  | 3.2  | 8.6  | 0.8  | 3.5  | 0.8  | 0.1 |     |      |     |      |     | 22.5  |
| Corp 3-6yr  | 7.9  | 2.7  | 10.5 | 1.9  | 5.9  | 6.0  | 1.0 |     |      |     |      |     | 35.8  |
| Corp 6-9yr  | 9.2  | 3.6  | 11.3 | 2.7  | 13.2 | 5.1  | 1.5 |     |      |     |      |     | 46.6  |
| Corp 9-12yr | 5.6  | 1.2  | 6.9  | 2.9  | 4.6  | 3.5  | 0.0 |     |      |     |      |     | 24.7  |
| Corp 12yrs+ | 9.1  | 3.5  | 10.2 | 2.1  | 4.8  | 1.5  | 0.0 |     |      |     |      |     | 31.1  |
| Fin 0-3yr   | 6.0  | 3.5  | 2.5  | 5.1  | 4.4  | 5.5  | 1.6 |     |      |     |      |     | 28.6  |
| Fin 3-6yr   | 7.3  | 8.9  | 11.4 | 8.4  | 11.9 | 8.7  | 2.5 |     |      |     |      |     | 59.0  |
| Fin 6-9yr   | 13.8 | 6.9  | 6.9  | 3.3  | 7.1  | 1.0  | 0.1 |     |      |     |      |     | 39.1  |
| Fin 9-12yr  | 5.0  | 2.2  | 7.8  | 4.4  | 3.8  | 3.7  | 1.3 |     |      |     |      |     | 28.1  |
|             |      |      |      |      |      |      |     |     |      |     |      |     |       |

Source: ING, Dealogic

Fig 16 Corporate supply per S&P rating (€bn)

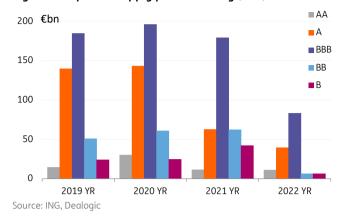


Fig 18 Corporate supply per country (€bn)

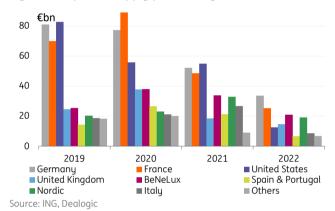
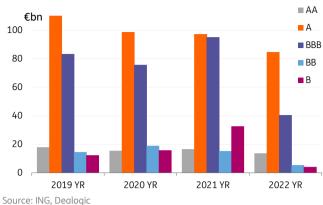
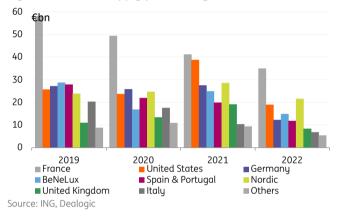


Fig 17 Financial supply per S&P rating (€bn)



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Fig 19 Financial supply per country (€bn)



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