## FY 2021

## RPIE 2018 Income and Expense Distributions

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## RPIE 2018 <br> Citywide by Property Type <br> Income, Expense, and Year-Year Change Distribution

| Property Type | Count | Variable | 25th Pctl | 50th Pct\| | 75th Pct\| | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| INDUSTRIAL | 2,763 | Income | \$10.69 | \$14.74 | \$19.73 | \$18.66 |
|  |  | Income \% change | 0.00\% | 2.73\% | 8.69\% | 3.06\% |
|  |  | Expense | \$1.55 | \$2.91 | \$4.94 | \$4.70 |
|  |  | Expense \% change | -16.30\% | 2.22\% | 21.67\% | 6.14\% |
| OFFICE | 2,785 | Income | \$23.41 | \$38.18 | \$61.14 | \$60.25 |
|  |  | Income \% change | -1.87\% | 2.18\% | 7.47\% | 1.40\% |
|  |  | Expense | \$5.00 | \$9.76 | \$17.99 | \$17.40 |
|  |  | Expense \% change | -10.92\% | 2.08\% | 15.81\% | 3.29\% |
| RENTAL | 14,213 | Income | \$15.08 | \$20.20 | \$35.53 | \$27.89 |
|  |  | Income \% change | 0.03\% | 2.54\% | 5.47\% | 2.12\% |
|  |  | Expense | \$7.14 | \$9.33 | \$12.90 | \$11.08 |
|  |  | Expense \% change | -4.59\% | 3.98\% | 13.35\% | 3.98\% |
| RETAIL | 9,335 | Income | \$22.12 | \$34.96 | \$58.39 | \$58.66 |
|  |  | Income \% change | -1.96\% | 2.18\% | 7.30\% | 1.21\% |
|  |  | Expense | \$3.98 | \$7.49 | \$13.82 | \$12.75 |
|  |  | Expense \% change | -12.77\% | 2.02\% | 17.71\% | 3.91\% |

Notes:
Income = Gross Income per square foot
Expense = Total Expense per square foot
Income and Expense \% changes based on information filed in RPIE 2018 and RPIE 2017
Rental Apartments with greater than 10 units
Does not include outlier filers and /or partial year filers

RPIE 2015-2018
Citywide by Property Type

Median Income Per Square Foot


| Number of Filings | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: | ---: |
| Industrial | 2,689 | 2,591 | 2,466 | 2,763 |
| Office | 2,498 | 2,502 | 2,424 | 2,785 |
| Rentals | 13,073 | 13,202 | 13,225 | 14,213 |
| Retail | 8,661 | 8,600 | 8,465 | 9,335 |

Median Expense Per Square Foot


Does not include outlier filers and /or partial year filers

# RPIE 2018 <br> Citywide by Borough <br> Income, Expense, and Year-Year Change Distribution 

| Borough | Count | Variable | 25th Pctl | 50th Pctl | 75th Pctl | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MANHATTAN | 9,354 | Income | \$28.27 | \$45.53 | \$64.14 | \$66.70 |
|  |  | Income \% change | -1.12\% | 2.31\% | 5.99\% | 1.37\% |
|  |  | Expense | \$9.51 | \$13.45 | \$19.20 | \$18.53 |
|  |  | Expense \% change | -7.10\% | 3.51\% | 14.94\% | 4.18\% |
| BRONX | 4,649 | Income | \$12.90 | \$15.86 | \$21.78 | \$21.82 |
|  |  | Income \% change | 0.00\% | 2.70\% | 6.42\% | 2.37\% |
|  |  | Expense | \$5.70 | \$7.52 | \$9.62 | \$8.46 |
|  |  | Expense \% change | -5.77\% | 3.86\% | 14.47\% | 4.44\% |
| BROOKLYN | 7,798 | Income | \$14.31 | \$19.10 | \$29.01 | \$26.19 |
|  |  | Income \% change | 0.00\% | 2.53\% | 6.18\% | 2.06\% |
|  |  | Expense | \$4.05 | \$6.56 | \$9.33 | \$8.09 |
|  |  | Expense \% change | -8.78\% | 2.74\% | 14.81\% | 3.86\% |
| QUEENS | 6,365 | Income | \$17.30 | \$23.20 | \$36.00 | \$32.75 |
|  |  | Income \% change | -0.15\% | 2.44\% | 6.54\% | 2.07\% |
|  |  | Expense | \$3.86 | \$6.85 | \$10.35 | \$8.77 |
|  |  | Expense \% change | -9.84\% | 2.81\% | 16.24\% | 4.45\% |
| STATEN ISLAND | 930 | Income | \$13.74 | \$21.21 | \$31.44 | \$27.30 |
|  |  | Income \% change | -1.26\% | 1.31\% | 6.52\% | 0.85\% |
|  |  | Expense | \$2.64 | \$5.06 | \$8.79 | \$6.90 |
|  |  | Expense \% change | -15.94\% | 0.60\% | 15.56\% | 0.99\% |

Notes:
Income = Gross Income per square foot
Expense = Total Expense per square foot
Income and Expense \% changes based on information filed in RPIE 2017 and RPIE 2018
Rental Apartments with greater than 10 units
Does not include outlier filers and /or partial year filers

# RPIE 2018 <br> Industrial Properties by Borough Income, Expenses, and Year-Year Change Distribution 

| Major Building Category | Borough | Count | Variable | 25th Pct | 50th Pctl | 75th Pctl | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| INDUSTRIAL | Manhattan | 46 | Income | \$22.72 | \$34.01 | \$50.99 | \$108.75 |
|  |  |  | Income \% change | -2.74\% | 2.86\% | 8.44\% | 3.04\% |
|  |  |  | Expense | \$2.38 | \$5.56 | \$10.78 | \$43.96 |
|  |  |  | Expense \% change | -3.67\% | 7.16\% | 23.03\% | 6.96\% |
|  | Bronx | 335 | Income | \$9.27 | \$12.91 | \$16.94 | \$15.28 |
|  |  |  | Income \% change | 0.00\% | 3.00\% | 11.30\% | 4.16\% |
|  |  |  | Expense | \$1.37 | \$2.74 | \$4.35 | \$3.29 |
|  |  |  | Expense \% change | -16.00\% | 1.56\% | 24.27\% | 8.91\% |
|  | Brooklyn | 1,167 | Income | \$10.47 | \$14.29 | \$19.29 | \$16.88 |
|  |  |  | Income \% change | 0.00\% | 2.72\% | 8.89\% | 3.14\% |
|  |  |  | Expense | \$1.55 | \$2.96 | \$5.07 | \$4.10 |
|  |  |  | Expense \% change | -15.66\% | 2.45\% | 19.76\% | 5.26\% |
|  | Queens | 1,100 | Income | \$11.73 | \$16.07 | \$20.93 | \$18.46 |
|  |  |  | Income \% change | -0.49\% | 2.83\% | 8.26\% | 2.80\% |
|  |  |  | Expense | \$1.65 | \$2.97 | \$4.98 | \$4.30 |
|  |  |  | Expense \% change | -17.48\% | 2.45\% | 22.08\% | 6.84\% |
|  | Staten Island | 115 | Income | \$8.68 | \$11.61 | \$14.08 | \$12.56 |
|  |  |  | Income \% change | -0.73\% | 0.00\% | 6.97\% | 1.45\% |
|  |  |  | Expense | \$1.49 | \$2.18 | \$3.80 | \$3.02 |
|  |  |  | Expense \% change | -15.70\% | 0.00\% | 15.09\% | -0.11\% |

## Notes:

Income = Gross Income per square foot
Expense = Total Expense per square foot
Income and Expense \% changes based on information filed in RPIE 2017 and RPIE 2018
Does not include outlier filers and or partial year filers

## RPIE 2015-2018 Industrial Properties by Borough

Median Income Per Square Foot


Median Expense Per Square Foot


|  | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: | ---: |
| Manhattan (MN) | 40 | 35 | 32 | 46 |
| Bronx (BX) | 331 | 333 | 312 | 335 |
| Brooklyn (BK) | 1,152 | 1,096 | 1,026 | 1,167 |
| Queens (QN) | 1,067 | 1,036 | 998 | 1,100 |
| Staten Island (SI) | 99 | 91 | 98 | 115 |

Does not include outlier filers and /or partial year filers

# RPIE 2018 <br> Office Properties by Borough <br> Income, Expenses, and Year-Year Change Distribution 

| Major Building Category | Borough | Count | Variable | 25th Pct\| | 50th Pctl | 75th Pct\| | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OFFICE | Manhattan | 971 | Income | \$41.64 | \$59.30 | \$83.98 | \$88.12 |
|  |  |  | Income \% change | -2.35\% | 2.47\% | 7.66\% | 1.67\% |
|  |  |  | Expense | \$10.39 | \$17.22 | \$25.05 | \$26.58 |
|  |  |  | Expense \% change | -8.00\% | 2.76\% | 14.56\% | 4.68\% |
|  | Bronx | 172 | Income | \$17.78 | \$26.34 | \$38.53 | \$31.71 |
|  |  |  | Income \% change | -1.46\% | 2.10\% | 7.49\% | 1.02\% |
|  |  |  | Expense | \$3.34 | \$6.06 | \$9.88 | \$8.40 |
|  |  |  | Expense \% change | -15.36\% | 1.73\% | 21.99\% | 4.29\% |
|  | Brooklyn | 577 | Income | \$18.59 | \$26.68 | \$38.59 | \$35.09 |
|  |  |  | Income \% change | -1.03\% | 2.36\% | 7.50\% | 1.93\% |
|  |  |  | Expense | \$3.47 | \$5.79 | \$9.93 | \$8.97 |
|  |  |  | Expense \% change | -13.08\% | 0.68\% | 17.26\% | 2.85\% |
|  | Queens | 520 | Income | \$20.69 | \$31.60 | \$46.94 | \$51.07 |
|  |  |  | Income \% change | -2.45\% | 1.71\% | 7.00\% | 0.68\% |
|  |  |  | Expense | \$4.24 | \$7.47 | \$12.80 | \$14.19 |
|  |  |  | Expense \% change | -12.37\% | 1.32\% | 15.30\% | 1.39\% |
|  | Staten Island | 184 | Income | \$18.30 | \$24.85 | \$32.91 | \$28.11 |
|  |  |  | Income \% change | -1.69\% | 1.37\% | 7.14\% | 0.66\% |
|  |  |  | Expense | \$2.73 | \$5.97 | \$10.27 | \$7.55 |
|  |  |  | Expense \% change | -20.47\% | 1.67\% | 18.57\% | 1.44\% |

Notes:
Income = Gross Income per square foot
Expense = Total Expense per square foot
Income and Expense \% changes based on information filed in RPIE 2017 and RPIE 2018
Does not include outlier filers and or partial year filers

RPIE 2015-2018 Office Properties by Borough

Median Income Per Square Foot


Number of Filings

Median Expense Per Square Foo $\dagger$


- 2015
- 2016
- 2017
- 2018

|  | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | ---: |
| Manhattan (MN) | 969 | 973 | 971 | $\mathbf{1 , 1 7 3}$ |
| Bronx (BX) | 182 | 186 | 172 | 179 |
| Brooklyn (BK) | 571 | 587 | 577 | 633 |
| Queens (QN) | 581 | 572 | 520 | 613 |
| Staten Island (SI) | 195 | 184 | 184 | 187 |

Does not include outlier filers and /or partial year filers

## RPIE 2018 <br> Rental Apartments By Borough Income, Expense, and Year-Year Change Distribution

| Major Building Category | Borough | Count | Variable | 25th Pctl | 50th Pctl | 75th Pct\| | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RENTAL APARTMENTS | Manhattan | 5,792 | Income | \$23.17 | \$38.82 | \$51.79 | \$40.99 |
|  |  |  | Income \% change | -0.85\% | 2.05\% | 5.20\% | 1.31\% |
|  |  |  | Expense | \$9.66 | \$12.82 | \$16.93 | \$14.40 |
|  |  |  | Expense \% change | -6.10\% | 3.75\% | 14.31\% | 3.77\% |
|  | Bronx | 2,883 | Income | \$12.50 | \$14.51 | \$17.11 | \$15.82 |
|  |  |  | Income \% change | 0.57\% | 2.92\% | 6.00\% | 2.83\% |
|  |  |  | Expense | \$6.60 | \$7.86 | \$9.52 | \$8.70 |
|  |  |  | Expense \% change | -2.65\% | 4.51\% | 12.43\% | 4.54\% |
|  | Brooklyn | 3,532 | Income | \$13.89 | \$16.90 | \$21.65 | \$19.81 |
|  |  |  | Income \% change | 0.41\% | 2.79\% | 5.48\% | 2.56\% |
|  |  |  | Expense | \$6.07 | \$7.70 | \$9.88 | \$8.62 |
|  |  |  | Expense \% change | -4.86\% | 3.64\% | 12.47\% | 3.46\% |
|  | Queens | 1,883 | Income | \$17.50 | \$20.56 | \$24.14 | \$21.76 |
|  |  |  | Income \% change | 0.55\% | 2.65\% | 5.42\% | 2.68\% |
|  |  |  | Expense | \$6.66 | \$8.49 | \$10.72 | \$9.26 |
|  |  |  | Expense \% change | -3.65\% | 4.47\% | 13.16\% | 4.77\% |
|  | Staten Island | 123 | Income | \$14.14 | \$16.43 | \$20.10 | \$19.42 |
|  |  |  | Income \% change | 0.08\% | 3.07\% | 5.45\% | 2.74\% |
|  |  |  | Expense | \$5.70 | \$7.42 | \$9.19 | \$8.68 |
|  |  |  | Expense \% change | -6.83\% | 4.80\% | 15.05\% | 3.32\% |

Income = Gross Income per square foot
Expense = Total Expense per square foot
Income and Expense \% changes based on information filed in RPIE 2017 and RPIE 2018
Does not include outlier filers and or partial year filers

## RPIE 2015-2018 <br> Rental Properties by Borough

Median Income Per Square Foot


Median Expense Per Square Foot


Number of Filings

|  | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: | ---: | ---: |
| Manhattan (MN) | 5,367 | 5,362 | 5,423 | 5,342 |
| Bronx (BX) | 2,564 | 2,675 | 2,747 | 2,652 |
| Brooklyn (BK) | 3,267 | 3,288 | 3,210 | 3,222 |
| Queens (QN) | 1,769 | 1,773 | 1,732 | 1,643 |
| Staten Island (SI) | 106 | 104 | 113 | 107 |

Does not include outlier filers and /or partial year filers

## RPIE 2018 <br> Retail Properties By Borough Income, Expenses, and Year-Year Change Distribution

| Major Building Category | Borough | Count | Variable | 25th Pct\| | 50th Pctl | 75th Pct\| | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RETAIL | Manhattan | 2,343 | Income | \$42.86 | \$64.42 | \$112.74 | \$118.70 |
|  |  |  | Income \% change | -2.05\% | 3.04\% | 8.00\% | 1.33\% |
|  |  |  | Expense | \$8.49 | \$15.14 | \$23.78 | \$24.21 |
|  |  |  | Expense \% change | -10.25\% | 3.17\% | 17.39\% | 4.91\% |
|  | Bronx | 1,252 | Income | \$19.20 | \$28.51 | \$43.27 | \$35.96 |
|  |  |  | Income \% change | -2.66\% | 1.83\% | 6.91\% | 1.03\% |
|  |  |  | Expense | \$3.94 | \$7.10 | \$11.20 | \$9.29 |
|  |  |  | Expense \% change | -15.26\% | 2.00\% | 18.67\% | 3.04\% |
|  | Brooklyn | 2,466 | Income | \$19.09 | \$27.51 | \$42.42 | \$37.44 |
|  |  |  | Income \% change | -1.71\% | 1.96\% | 6.44\% | 0.86\% |
|  |  |  | Expense | \$3.18 | \$5.69 | \$9.56 | \$8.98 |
|  |  |  | Expense \% change | -13.49\% | 1.78\% | 17.94\% | 4.05\% |
|  | Queens | 2,769 | Income | \$21.97 | \$33.07 | \$50.25 | \$41.83 |
|  |  |  | Income \% change | -1.54\% | 2.12\% | 7.59\% | 1.68\% |
|  |  |  | Expense | \$3.66 | \$6.48 | \$11.03 | \$9.01 |
|  |  |  | Expense \% change | -13.28\% | 1.76\% | 17.77\% | 3.96\% |
|  | Staten Island | 505 | Income | \$16.33 | \$25.16 | \$36.59 | \$32.28 |
|  |  |  | Income \% change | -2.18\% | 0.84\% | 6.60\% | 0.33\% |
|  |  |  | Expense | \$2.90 | \$4.94 | \$8.98 | \$7.10 |
| notes: |  |  | Expense \% change | -17.59\% | 0.20\% | 15.44\% | 0.50\% |

Income = Gross Income per square foot
Expense = Total Expense per square foot
Income and Expense \% changes based on information filed in RPIE 2017 and RPIE 2018
Does not include outlier filers and or partial year filers

## RPIE 2015-2018 Retail Properties by Borough

Median Income Per Square Foot


Median Expense Per Square Foot


| Number of Filings |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
|  | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| Manhattan (MN) | 2,005 | 2,010 | 2,000 | 2,343 |
| Bronx (BX) | 1,217 | 1,136 | 1,144 | 1,252 |
| Brooklyn (BK) | 2,325 | 2,368 | 2,318 | 2,466 |
| Queens (QN) | 2,643 | 2,592 | 2,539 | 2,769 |
| Staten Island (SI) | 471 | 494 | 464 | 505 |

Does not include outlier filers and /or partial year filers

## Guideline Income, Expense, and Cap Rate Distributions

| Major Building Categories | Variable | 25th Pctl | 50th Pctl | 75th Pctl | Mean |
| :--- | :--- | :---: | :---: | :---: | :---: |
| INDUSTRIAL | Income | $\$ 14.85$ | $\$ 17.48$ | $\$ 20.96$ | $\$ 18.69$ |
|  | Expense | $\$ 2.82$ | $\$ 3.34$ | $\$ 4.01$ | $\$ 3.57$ |
|  | Cap Rate | $14.20 \%$ | $14.22 \%$ | $14.25 \%$ | $14.07 \%$ |
| OFFICE | Income | $\$ 28.99$ | $\$ 35.83$ | $\$ 50.68$ | $\$ 43.71$ |
|  | Expense | $\$ 5.95$ | $\$ 8.33$ | $\$ 12.57$ | $\$ 10.45$ |
|  | Cap Rate | $14.68 \%$ | $14.90 \%$ | $14.91 \%$ | $14.50 \%$ |
| RENTAL | Income | $\$ 16.51$ | $\$ 22.01$ | $\$ 36.82$ | $\$ 28.84$ |
|  | Expense | $\$ 7.38$ | $\$ 9.36$ | $\$ 12.64$ | $\$ 10.55$ |
|  | Cap Rate | $12.31 \%$ | $12.85 \%$ | $13.77 \%$ | $13.19 \%$ |
| RETAIL | Income | $\$ 29.39$ | $\$ 37.53$ | $\$ 52.64$ | $\$ 47.50$ |
|  | Expense | $\$ 5.68$ | $\$ 7.52$ | $\$ 10.51$ | $\$ 9.27$ |
|  | Cap Rate | $14.69 \%$ | $15.08 \%$ | $15.90 \%$ | $14.88 \%$ |

Notes:
Income = Gross Income per square foot
Expense = Total Expense per square foot

## FY21 Capitalization Rate Methodology Tax Class 2

- Capitalization Rate based on Ellwood formula


Fallout Capitalization Rate $=$ return on capital (dividend yield) - return of capital (capital gain/loss)


Capitalization Rate based on earnings

- the higher the growth rate, the lower the fallout Capitalization Rate, the more valuable the property


## FY21 Capitalization Rate Methodology Tax Class 2

- $R_{o}$ and $\Delta_{n}{ }^{(a n)}$ are not estimated for each property but are guideline curves that reflect median relationships with income
- $R_{o}$ is estimated by a median regression of market Capitalization Rate on income per square foot
- $\Delta_{n}{ }^{(a n)}$ is estimated by a median regression of annual sales growth of Class 2 rentals that were purchased between 1986-2019 and sold from 2015-2019.


## FY21 Capitalization Rate Methodology Tax Class 2

- Guideline curves are applied on rental filer population and centered to reflect market rates
- For FY21: - the median Capitalization Rate $R_{o}$ is centered on $3.47 \%$ *

Guidelines Rates

| Variable | 25th Pctl | 50th Pctl | 75th Pctl | Mean |
| :--- | ---: | ---: | ---: | ---: |
| Ro | $2.00 \%$ | $3.47 \%$ | $4.74 \%$ | $3.52 \%$ |
| $\Delta$ | $3.06 \%$ | $3.66 \%$ | $4.72 \%$ | $3.91 \%$ |

- FY21 versus FY20 Capitalization Rate *

Citywide

| Variable | 25th Pctl | 50th Pctl | 75th Pctl | Mean |
| :--- | ---: | ---: | ---: | ---: |
| Cap Rate FY21 | $6.85 \%$ | $7.17 \%$ | $7.80 \%$ | $7.43 \%$ |
| Cap Rate FY20 | $6.70 \%$ | $7.30 \%$ | $8.21 \%$ | $7.62 \%$ |
| Cap Rate FY21-FY20 | $0.15 \%$ | $-0.13 \%$ | $-0.41 \%$ | $-0.19 \%$ |

## FY21 Capitalization Rate Formulas and Example Tax Class 2

- Capitalization Rate used reflects earnings-based return

$$
\begin{gathered}
Y_{o}=R_{o}+\Delta_{n}\left(a_{n}\right) \\
R_{o}=\exp \left(-1.08737^{*} \ln (\text { income psf })\right) \\
\Delta_{\mathrm{n}}\left(\mathrm{a}_{\mathrm{n}}\right)=-0.028323+0.021001^{*} \ln (\text { income psf })
\end{gathered}
$$

Example: income psf = \$19.55*

$$
\begin{array}{r}
R_{o}=\exp (-1.08737 * \ln (19.55))^{*} 100=3.945 \% \\
\Delta_{\mathrm{n}}\left(a_{\mathrm{n}}\right)=(-0.028323+0.021001 * \ln (19.55))^{*} 100=3.411 \% \\
\mathrm{Yo}=3.945 \%+3.411 \%=7.356 \%
\end{array}
$$

## FY21 Capitalization Rate Methodology Tax Class 4

| Major Building Category | Flot Cop Rate |
| :--- | :---: |
| Adjustment from FY20 |  |
| CLASS A/B/T AND DOWNTOWN BROOKLYN CLASS A | 0.25 |
| OFFICE - MANHATTAN SOUTH OF 110TH STREET <br> Non CLASS A/B/T | 0 |
| OFFICE - MANHATTAN NORTH OF 110TH STREET <br> AND OUTER BOROUGHS | 0 |
| RETAIL - MANHATTAN SOUTH OF 125TH STREET <br> AND DOWNTOWN BROOKLYN | 0.5 |
| RETAIL - MANHATTAN NORTH OF 125TH STREET <br> AND OUTER BOROUGHS | 0.5 |
| INDUSTRIAL | 0.25 |
| GARAGE | 0.25 |

- Capitalization Rate are given a flat rate adjustment from FY20

