

**CIM INCOME NAV, INC.**  
**SUPPLEMENT NO. 3 DATED SEPTEMBER 18, 2020**  
**TO THE PROSPECTUS DATED AUGUST 7, 2020**

*This document supplements, and should be read in conjunction with, the prospectus of CIM Income NAV, Inc. dated August 7, 2020, Supplement No. 1 dated August 20, 2020 and Supplement No. 2 dated August 26, 2020. Unless otherwise defined in this supplement, capitalized terms used in this supplement shall have the same meanings as set forth in the prospectus.*

The purpose of this supplement is to describe the following:

- (1) the status of the offering of shares of CIM Income NAV, Inc.;
- (2) the transaction price for each class of our common stock as of October 1, 2020;
- (3) the calculation of the net asset value (“NAV”) per share as of August 31, 2020;
- (4) update to our distributions;
- (5) recent real property acquisitions and dispositions; and
- (6) updates to information about our redemption plan.

**OPERATING INFORMATION**

***Status of Our Public Offering***

The registration statement for our initial public offering of \$4,000,000,000 in shares of common stock was declared effective by the U.S. Securities and Exchange Commission on December 6, 2011 and was subsequently superseded by registration statements declared effective on August 26, 2013, February 10, 2017 and August 7, 2020. We are offering up to \$3,500,000,000 in shares of common stock pursuant to our primary offering, consisting of four classes of shares of common stock: D Shares, T Shares, S Shares and I Shares. We are also offering \$500,000,000 in shares pursuant to our distribution reinvestment plan. We are offering to sell any combination of D Shares, T Shares, S Shares and I Shares with a dollar value up to the maximum offering amount.

During the month of August 2020, we accepted investors’ subscriptions for, and issued, a total of approximately 90,000 shares of our common stock in our offering, resulting in gross proceeds to us of approximately \$1.5 million, consisting of approximately 24,000 shares of our common stock in our primary offering, resulting in gross proceeds to us of approximately \$399,000 (\$224,000 in D Shares and \$175,000 in T Shares), and approximately 66,000 shares of our common stock pursuant to our distribution reinvestment plan, resulting in gross proceeds to us of approximately \$1.1 million. As of the date of this supplement, we had accepted investors’ subscriptions for, and issued, approximately 48.4 million shares of our common stock since the commencement of our initial offering (including shares issued pursuant to our distribution reinvestment plan), resulting in gross proceeds to us of approximately \$871.6 million.

We are structured as a perpetual-life, non-exchange traded REIT. This means that, subject to ongoing regulatory approval of our filing for additional offerings, we will be selling shares of our common stock on a continuous basis and for an indefinite period of time. We will endeavor to take all reasonable actions to avoid interruptions in the continuous offering of our shares of common stock. There can be no assurance, however, that we will not need to suspend our continuous offering. The offering must be registered in every state in which we offer or sell shares. Generally, such registrations are for a period of one year. Thus, we may have to stop selling shares in any state in which our registration is not renewed or otherwise extended annually. We reserve the right to terminate this offering as well as to renew, extend or terminate our registration at any time.

## Transaction Price

The transaction price for each share class of our common stock for subscriptions accepted, and distribution reinvestment plan issuances, as of October 1, 2020, and redemptions as of September 30, 2020, is as follows:

| Share Class | Transaction Price (per share) |       |
|-------------|-------------------------------|-------|
| D Shares    | \$                            | 16.88 |
| T Shares    | \$                            | 16.47 |
| S Shares    | \$                            | 16.45 |
| I Shares    | \$                            | 17.16 |

The transaction price for each of our share classes is equal to such class's NAV per share as of August 31, 2020. The purchase price of our common stock for each share class in our primary offering equals the transaction price of such class, plus applicable upfront selling commissions and dealer manager fees.

## NAV Per Share as of August 31, 2020

We calculate NAV per share in accordance with the valuation policies approved by our board of directors. Our NAV per share, which is updated as of the last business day of each month, is posted on our website at [www.cimgroup.com/investment-strategies/individual/inav#summary](http://www.cimgroup.com/investment-strategies/individual/inav#summary) and is made available on our toll-free, automated information line at 866-907-2653. The October 1, 2020 transaction price is being determined based on our NAV as of August 31, 2020. Please refer to the "Valuation Policies" section in our prospectus, as supplemented, for a more detailed description of our valuation procedures, including important disclosure regarding real property valuations provided by the independent valuation expert. All parties engaged by us in the calculation of our NAV, including our advisor, are subject to the oversight of our board of directors. We have engaged the independent valuation expert to provide on a monthly basis, instead of a rolling annual basis, valuations of each of our commercial real estate assets and related liabilities, going forward, until such time that we have greater visibility into the impact of the current novel coronavirus ("COVID-19") pandemic on our property valuations. For the months of July and August 2020, all of our real properties were valued by our independent valuation expert. The following table sets forth the components of total NAV as of August 31, 2020 and July 31, 2020:

| Components of NAV                                 | As of           |                |
|---|-----------------|----------------|
|   | August 31, 2020 | July 31, 2020  |
| Investments in real estate                        | \$ 895,855,000  | \$ 895,965,000 |
| Investment in CIM UII Onshore                     | 46,697,807      | 46,697,807     |
| Acquisition expenses and deferred financing costs | 2,458,119       | 2,821,402      |
| Cash, marketable securities and other assets      | 47,010,533      | 49,563,820     |
| Outstanding debt                                  | (473,273,510)   | (473,275,369)  |
| Accrued performance fee                           | —               | —              |
| Accrued stockholder servicing fee                 | (220,748)       | (222,548)      |
| Subscriptions received in advance                 | (4,033,353)     | (3,871,786)    |
| Accrued liabilities                               | (6,337,727)     | (6,415,518)    |
| Net asset value                                   | \$ 508,156,121  | \$ 511,262,808 |
| Number of outstanding shares                      | 30,422,512      | 30,576,780     |

The following table provides a breakdown of our total NAV and NAV per share by share class as of August 31, 2020 and July 31, 2020:

|  | D Shares       | T Shares       | S Shares   | I Shares      | Total          |
|--|----------------|----------------|------------|---------------|----------------|
| Net asset value as of August 31, 2020              | \$ 263,080,288 | \$ 228,766,441 | \$ 119,471 | \$ 16,189,921 | \$ 508,156,121 |
| Number of outstanding shares as of August 31, 2020 | 15,581,426     | 13,890,198     | 7,262      | 943,626       | 30,422,512     |
| NAV per share as of August 31, 2020                | \$ 16.88       | \$ 16.47       | \$ 16.45   | \$ 17.16      |                |
| Net asset value as of July 31, 2020                | \$ 265,261,822 | \$ 229,676,878 | \$ 119,063 | \$ 16,205,045 | \$ 511,262,808 |
| Number of outstanding shares as of July 31, 2020   | 15,697,464     | 13,928,147     | 7,229      | 943,940       | 30,576,780     |
| NAV per share as of July 31, 2020                  | \$ 16.90       | \$ 16.49       | \$ 16.47   | \$ 17.17      |                |

For single-tenant properties with fewer than eight years of remaining lease term and anchored shopping centers, and certain other properties, our independent valuation expert calculated estimated market values by using a discounted cash flow analysis, which may have been the sole valuation approach or used in combination with a direct capitalization methodology. Set forth below are the weighted averages of the key assumptions in the discounted cash flow methodology used in the August 31, 2020 valuations, based on property type.

| <b>Property Type</b>     | <b>Discount Rate</b> | <b>Exit Capitalization Rate</b> |
|--------------------------|----------------------|---------------------------------|
| Anchored Shopping Center | 8.41%                | 7.80%                           |
| Retail                   | 8.15%                | 7.66%                           |
| Industrial               | 7.76%                | 7.23%                           |
| Office                   | 7.88%                | 7.15%                           |

For single-tenant properties with greater than eight years of remaining lease term, and certain other properties, our independent valuation expert calculated estimated market values by using a direct capitalization cash flow analysis, which may have been the sole valuation approach or used in combination with the discounted cash flow methodology.

Set forth below are the weighted averages of the implied capitalization rate, using net operating income over the direct capitalization value, used in the August 31, 2020 valuations, based on property type.

| <b>Property Type</b>     | <b>Implied Overall Capitalization Rate</b> |
|--------------------------|--|
| Anchored Shopping Center | 7.66%                                      |
| Retail                   | 6.90%                                      |
| Industrial               | 6.75%                                      |
| Office                   | 6.79%                                      |

As previously disclosed, we are continuing to monitor and assess the impacts that the outbreak of COVID-19 may have on our business, tenants and operating partners. The impact of the COVID-19 outbreak and the associated “shelter-in-place” or “stay-at-home” orders or other quarantine mandates or public health guidance issued by local, state or federal authorities has adversely affected a number of our tenants’ businesses. The extent to which the COVID-19 pandemic continues to impact our operations and those of our tenants will depend on future developments, which are highly uncertain and cannot be predicted with confidence, including the scope, severity and duration of the pandemic, the actions taken to contain the pandemic or mitigate its impact, and the direct and indirect economic effects of the pandemic and containment measures, among others.

As of September 16, 2020, we have collected approximately 96% of rental payments billed to tenants during the month of August 30, 2020. Additionally, as of September 16, 2020, we have collected 93% of rental payments billed to tenants during the month of September.

## **PROSPECTUS UPDATES**

### ***Recent Real Property Acquisitions and Dispositions***

*The following information supplements, and should be read in conjunction with, the sections of our prospectus captioned “Prospectus Summary — Description of Real Estate Assets” beginning on page 23 of the prospectus and “Investment Objectives, Strategy and Policies — Real Property Acquisitions” beginning on page 86 of the prospectus, and describes our real estate holdings as of August 31, 2020, and the activity that occurred subsequent to the activity as of August 10, 2020 previously disclosed in our prospectus, as supplemented.*

### **Description of Real Estate Assets**

As of August 31, 2020, we, through separate wholly-owned limited liability companies and limited partnerships, owned 126 properties, acquired for an aggregate purchase price of \$894.0 million, located in 34 states, consisting of five anchored shopping centers, 99 retail, 11 industrial and distribution, and 11 office properties, comprising approximately 5.4 million gross rentable square feet of commercial space, including the square feet of buildings that are on land subject to ground leases. We did not acquire or dispose of any properties between August 11, 2020 and August 31, 2020.

## ***Redemption Plan***

*The following information supplements, and should be read in conjunction with, the section of our prospectus captioned “Share Purchases and Redemptions — Redemption Plan” beginning on page 189 of the prospectus.*

Under our share redemption plan, to the extent we choose to redeem shares in any particular month, we will only redeem shares as of the opening of the last calendar day of that month. To have your shares redeemed, your redemption request and required documentation must be received in good order by 4:00 p.m. (Eastern Time) on the second to last business day of the applicable month. As of 4:00 p.m. (Eastern Time) on August 28, 2020, the deadline for receipt of redemption requests for the August 2020 redemption period, redemption requests representing approximately \$30.3 million were received in good order by the transfer agent, which was in excess of \$4.1 million, which represents the temporarily reduced monthly redemption limit of 0.8% of aggregate NAV as of the last calendar day of the previous calendar month. The remaining redemption requests received went unfulfilled.