

**ARES INDUSTRIAL REAL ESTATE INCOME TRUST INC.  
SUPPLEMENT NO. 5 DATED APRIL 14, 2022  
TO THE PROSPECTUS DATED FEBRUARY 11, 2022**

This prospectus supplement (“Supplement”) is part of and should be read in conjunction with the prospectus of Ares Industrial Real Estate Income Trust Inc. (the “Company”), dated February 11, 2022, as supplemented by Supplement No. 1, dated February 14, 2022, Supplement No. 2, dated February 22, 2022, Supplement No. 3, dated March 15, 2022 and Supplement No. 4, dated April 6, 2022 (the “Prospectus”). Unless otherwise defined herein, capitalized terms used in this Supplement shall have the same meanings as in the Prospectus.

The purpose of this Supplement is to disclose:

- the transaction price and offering price for each class of our common stock for subscriptions to be accepted as of May 1, 2022;
- the calculation of our March 31, 2022 net asset value (“NAV”) per share, as determined in accordance with our valuation procedures, for each of our share classes;
- the status of this offering;
- updated information regarding distributions;
- an update on our assets and performance; and
- updated experts information.

• **MAY 1, 2022 TRANSACTION PRICE**

The transaction price for each share class of our common stock for subscriptions to be accepted as of May 1, 2022 (and distribution reinvestment plan issuances following the close of business on April 29, 2022 and share redemptions as of April 30, 2022) is as follows:

Share Class	Transaction Price (per share)	Offering Price (per share)
Class T	\$ 14.4934	\$ 15.1763
Class D	\$ 14.4934	\$ 14.4934
Class I	\$ 14.4934	\$ 14.4934

The transaction price for each of our share classes is equal to such class’s NAV per share as of March 31, 2022. A calculation of the NAV per share is set forth in the section of this Supplement titled “March 31, 2022 NAV Per Share.” The offering price of our common stock for each share class equals the transaction price of such class, plus applicable upfront selling commissions and dealer manager fees.

• **MARCH 31, 2022 NAV PER SHARE**

Our board of directors, including a majority of our independent directors, has adopted valuation procedures, as amended from time to time, that contain a comprehensive set of methodologies to be used in connection with the calculation of our NAV. Our most recent NAV per share for each share class, which is updated as of the last calendar day of each month, is posted on our website at [www.blackcreekgroup.com/investment-solutions/AIREIT](http://www.blackcreekgroup.com/investment-solutions/AIREIT) and is also available on our toll-free, automated telephone line at (888) 310-9352. With the approval of our board of directors, including a majority of our independent directors, we have engaged Altus Group U.S. Inc., a third-party valuation firm, to serve as our independent valuation advisor (“Altus Group” or the “Independent Valuation Advisor”) with respect to providing monthly real property appraisals, reviewing annual third-party real property appraisals, reviewing the internal valuations of debt-related assets and liabilities performed by BCI IV Advisors LLC for periods prior to July 1, 2021 and Ares Commercial Real Estate Management LLC for periods thereafter (the “Advisor”), helping us administer the valuation and review process for the real properties in our portfolio, and assisting in the development and review of our valuation procedures.

As used below, “Fund Interests” means our outstanding shares of common stock, along with the partnership units in our operating partnership (“OP Units”), which may be or were held directly or indirectly by the Advisor, our former sponsor, members or affiliates of our former sponsor, and third parties, and “Aggregate Fund NAV” means the NAV of all the Fund Interests.

The following table sets forth the components of Aggregate Fund NAV as of March 31, 2022 and February 28, 2022:

(in thousands)	As of	
	March 31, 2022	February 28, 2022
Investments in industrial properties	\$ 6,860,200	\$ 6,505,500
Investment in unconsolidated joint venture partnership	20,441	14,695
DST Program Loans	81,338	81,240
Cash and cash equivalents	277,374	270,667
Other assets	58,220	48,076
Line of credit, term loans and mortgage notes	(2,352,726)	(2,416,140)
Financing obligations associated with our DST Program	(681,045)	(625,568)
Other liabilities	(105,351)	(85,418)
Accrued performance participation allocation	(83,300)	(45,007)
Accrued fixed component of advisory fee	(4,955)	(4,548)
Aggregate Fund NAV	\$ 4,070,196	\$ 3,743,497
Total Fund Interests outstanding	280,832	275,827

The following table sets forth the NAV per Fund Interest as of March 31, 2022 and February 28, 2022:

(in thousands, except per Fund Interest data)	Total	Class T Shares	Class D Shares	Class I Shares	OP Units
<b>As of March 31, 2022</b>					
Monthly NAV	\$ 4,070,196	\$ 3,115,681	\$ 220,639	\$ 668,181	\$ 65,695
Fund Interests outstanding	280,832	214,973	15,223	46,103	4,533
NAV Per Fund Interest	\$ 14.4934	\$ 14.4934	\$ 14.4934	\$ 14.4934	\$ 14.4934
<b>As of February 28, 2022</b>					
Monthly NAV	\$ 3,743,497	\$ 2,887,144	\$ 200,875	\$ 593,960	\$ 61,518
Fund Interests outstanding	275,827	212,729	14,801	43,764	4,533
NAV Per Fund Interest	\$ 13.5719	\$ 13.5719	\$ 13.5719	\$ 13.5719	\$ 13.5719

The NAV per Fund Interest increased by approximately \$0.92, or 6.8%, compared to our NAV per Fund Interest as of February 28, 2022, primarily as a result of strong leasing, above-average market rent growth, and strengthening capital markets.

Under GAAP, we record liabilities for ongoing distribution fees that (i) we currently owe the Dealer Manager under the terms of the dealer manager agreement and (ii) we estimate we may pay to the Dealer Manager in future periods for shares of our common stock. As of March 31, 2022, we estimated approximately \$88.7 million of ongoing distribution fees were potentially payable to the Dealer Manager. We do not deduct the liability for estimated future distribution fees in our calculation of NAV since we intend for our NAV to reflect our estimated value on the date that we determine our NAV. Accordingly, our estimated NAV at any given time does not include consideration of any estimated future distribution fees that may become payable after such date.

We include no discounts to our NAV for the illiquid nature of our shares, including the limitations on our stockholders’ ability to redeem shares under our share redemption program and our ability to suspend our share redemption program at any time. Our NAV generally does not reflect the potential impact of exit costs (e.g. selling costs and commissions related to the sale of a property) that would likely be incurred if our assets and liabilities were liquidated or sold today. While we may use market pricing concepts to value individual components of our NAV, our per share NAV is not derived from the market pricing information of open-end real estate funds listed on stock exchanges.

Our NAV is not a representation, warranty or guarantee that: (i) we would fully realize our NAV upon a sale of our assets; (ii) shares of our common stock would trade at our per share NAV on a national securities exchange; and (iii) a stockholder would be able to realize the per share NAV if such stockholder attempted to sell his or her shares to a third party.

The valuations of our real properties as of March 31, 2022, excluding certain newly acquired properties that are currently held at cost which we believe reflects the fair value of such properties, were provided by the Independent Valuation Advisor in accordance with our valuation procedures. Certain key assumptions that were used by the Independent Valuation Advisor in the discounted cash flow analysis are set forth in the following table:

	<b>Weighted-Average Basis</b>
Exit capitalization rate	4.7 %
Discount rate / internal rate of return	5.7 %
Average holding period (years)	10.3

A change in the exit capitalization and discount rates used would impact the calculation of the value of our real property. For example, assuming all other factors remain constant, the changes listed below would result in the following effects on the value of our real properties, excluding certain newly acquired properties that are currently held at cost which we believe reflects the fair value of such properties:

<b>Input</b>	<b>Hypothetical Change</b>	<b>Increase (Decrease) to the NAV of Real Properties</b>
Exit capitalization rate (weighted-average)	0.25 % decrease	4.0 %
	0.25 % increase	(3.6)%
Discount rate (weighted-average)	0.25 % decrease	2.2 %
	0.25 % increase	(2.1)%

From November 1, 2017 through January 31, 2020, we valued our debt-related investments and real estate-related liabilities generally in accordance with fair value standards under GAAP. Beginning with our valuation for February 29, 2020, our property-level mortgages and corporate-level credit facilities that are intended to be held to maturity (which for fixed rate debt not subject to interest rate hedges may be the date near maturity at which time the debt will be eligible for prepayment at par for purposes herein), including those subject to interest rate hedges, were valued at par (i.e. at their respective outstanding balances). In addition, because we utilize interest rate hedges to stabilize interest payments (i.e. to fix all-in interest rates through interest rate swaps or to limit interest rate exposure through interest rate caps) on individual loans, each loan and associated interest rate hedge is treated as one financial instrument which is valued at par if intended to be held to maturity. This policy of valuing at par applies regardless of whether any given interest rate hedge is considered as an asset or liability for GAAP purposes. Notwithstanding, if we acquire an investment and assume associated in-place debt from the seller that is above or below market, then consistent with how we recognize assumed debt for GAAP purposes when acquiring an asset with pre-existing debt in place, the liabilities used in the determination of our NAV will include the market value of such debt based on market value as of the closing date. The associated premium or discount on such debt as of closing that is reflected in our liabilities will then be amortized through loan maturity. Per our valuation policy, the corresponding investment is valued on an unlevered basis for purposes of determining NAV. Accordingly, all else equal, we would not recognize an immediate gain or loss to our NAV upon acquisition of an investment whereby we assume associated pre-existing debt that is above or below market. As of March 31, 2022, we classified all of our debt as intended to be held to maturity, and our liabilities included mark-to-market adjustments for pre-existing debt that we assumed upon acquisition.

- **STATUS OF THIS OFFERING**

As of March 31, 2022, we had raised gross proceeds of approximately \$637.7 million from the sale of approximately 54.5 million shares in this offering, including proceeds from our distribution reinvestment plan of approximately \$39.4 million. As of March 31, 2022, approximately \$4.4 billion in shares remained available for sale pursuant to this offering, including approximately \$1.2 billion in shares available for sale through our distribution reinvestment plan. We may reallocate amounts between the primary offering and our distribution reinvestment plan.

- **DISTRIBUTIONS**

We have declared monthly distributions for each class of our common stock. To date, each class of our common stock has received the same gross distribution per share. Monthly gross distributions were \$0.0454 per share for each share class for the month of March 2022 and were paid to all stockholders of record as of the close of business on March 31, 2022. The net distribution per share is calculated as the gross distribution per share less any distribution fees that are payable monthly with respect to Class T shares and Class D shares (formerly designated as Class W shares). Since distribution fees are not paid with respect to Class I shares, the net distributions payable with respect to Class I shares are equal to the gross distributions payable with respect to Class I shares. The table below details the net distributions for each class of our common stock for the period presented:

Month	Pay Date	Net Distributions per Share		
		Class T Share	Class D Share	Class I Share
March 2022	4/1/2022	\$ 0.036	\$ 0.043	\$ 0.045

- **UPDATE ON OUR ASSETS AND PERFORMANCE**

As of March 31, 2022, our leverage ratio was approximately 30.2% (calculated as outstanding principal balance of our borrowings less cash and cash equivalents, divided by the fair value of our real property and our net investment in an unconsolidated joint venture partnership).

As of March 31, 2022, we directly owned and managed a real estate portfolio that included 202 industrial buildings totaling approximately 39.3 million square feet located in 29 markets throughout the U.S., with 354 customers, and was 97.3% occupied (99.0% leased) with a weighted-average remaining lease term (based on square feet) of 4.4 years. The occupied rate reflects the square footage with a paying customer in place. The leased rate includes the occupied square footage and additional square footage with leases in place that have not yet commenced.

The following table sets forth the top ten geographic allocations of our real estate portfolio based on fair value as of March 31, 2022:

(\$ and square feet in thousands)	Number of Buildings	Fair Value of Real Property	% of Fair Value
Southern California	16	\$ 862,450	12.5 %
New Jersey	15	800,900	11.7
Seattle	14	546,900	8.0
Atlanta	19	525,700	7.7
Pennsylvania	17	489,400	7.1
Dallas	12	421,050	6.1
Central Valley	9	334,250	4.9
Bay Area	3	264,550	3.9
Las Vegas	7	237,600	3.5
San Diego	7	227,700	3.3
Other	83	2,149,700	31.3
Total Portfolio	202	\$ 6,860,200	100.0 %

The following table sets forth the total shareholder returns for the periods ended March 31, 2022:

	<u>Trailing One-Month (1)</u>	<u>Year-to-Date (1)</u>	<u>One-Year (Trailing 12-Months)(1)</u>	<u>Since NAV Inception Annualized (1)(2)(3)</u>
Class T Share Total Return (without sales charge) (3)	7.07 %	16.93 %	47.82 %	13.60 %
Class T Share Total Return (with sales charge) (3)	2.26 %	11.67 %	41.16 %	12.42 %
Class D Share Total Return (3)	7.13 %	17.10 %	48.40 %	15.81 %
Class I Share Total Return (3)	7.15 %	17.16 %	49.03 %	14.67 %

- (1) Performance is measured by total return, which includes income and appreciation (i.e., distributions and changes in NAV) and reinvestment of all distributions (“Total Return”) for the respective time period. Past performance is not a guarantee of future results. Performance data quoted above is historical. Current performance may be higher or lower than the performance data quoted. Actual individual stockholder returns will vary. The returns have been prepared using unaudited data and valuations of the underlying investments in our portfolio, which are estimates of fair value and form the basis for our NAV. Valuations based upon unaudited or estimated reports from the underlying investments may be subject to later adjustments or revisions, may not correspond to realized value and may not accurately reflect the price at which assets could be liquidated on any given day.
- (2) The inception date for Class I shares and Class T shares was November 1, 2017, which is when shares of our common stock were first issued to third-party investors in our initial public offering. The inception date for Class D shares (formerly designated as Class W shares) was July 2, 2018, which is when Class D shares of common stock were first issued to third-party investors.
- (3) The Total Returns presented are based on the actual NAVs at which stockholders transacted, calculated pursuant to our valuation procedures. With respect to the “Class T Share Total Return (with sales charge),” the Total Returns are calculated assuming the stockholder also paid the maximum upfront selling commission, dealer manager fee and ongoing distribution fees in effect during the time period indicated. With respect to “Class T Share Total Return (without sales change),” the Total Returns are calculated assuming the stockholder did not pay any upfront selling commission or dealer manager fee, but did pay the maximum ongoing distribution fees in effect during the time period indicated. From NAV inception to January 31, 2020, these NAVs reflected mark-to-market adjustments on our borrowing-related debt instruments and our borrowing-related interest rate hedge positions. See Item 5 in Part II of our Annual Report on Form 10-K for the year ended December 31, 2021 for additional information on the impact of not continuing to mark these instruments to market on the calculation of our Total Returns.

● **EXPERTS**

The statements included in this Supplement under the section titled “March 31, 2022 NAV Per Share” relating to the role of Altus Group U.S. Inc. have been reviewed by Altus Group U.S. Inc., an independent valuation advisor, and are included in this Supplement given the authority of such advisor as experts in real estate valuations.