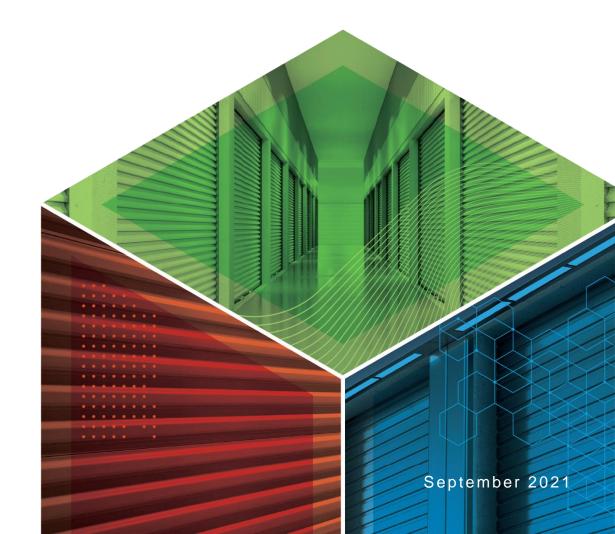
National Storage Affiliates Company Update





Forward-Looking Statements and Non-GAAP Financial Measures

FORWARD-LOOKING STATEMENTS: We make forward-looking statements in this presentation that are subject to risks and uncertainties. These forward-looking statements include information about possible or assumed future results of our business, financial condition, liquidity, results of operations, plans and objectives. When we use the words "believe," "expect," "anticipate," "estimate," "plan," "continue," "intend," "should," "may" or similar expressions, we intend to identify forward-looking statements. The forward-looking statements contained in this presentation reflect our current views about future events and are subject to numerous known and unknown risks, uncertainties, assumptions and changes in circumstances that may cause our actual results to differ significantly from those expressed in any forwardlooking statement.

The forward-looking statements are based on our beliefs, assumptions and expectations of our future performance, taking into account all information currently available to us. Forward-looking statements are not predictions of future events. These beliefs, assumptions and expectations can change as a result of many possible events or factors, not all of which are known to us. Some of these factors are described in our annual report on Form 10-K filed with the SEC on February 26, 2021 (the "Annual Report") under the headings "business," "risk factors," "properties," and "management's discussion and analysis of financial condition and results of operations," as applicable. You may get these documents for free by visiting EDGAR on the SEC website at www.sec.gov. If a change occurs, our business, financial condition, liquidity and results of operations may vary materially from those expressed in our forward-looking statements. Any forward-looking statement speaks only as of the date on which it is made. New risks and uncertainties arise over time, and it is not possible for us to predict those events or how they may affect us. Except as required by law, we are not obligated to, and do not intend to, update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

This presentation and the information contained herein are for informational purposes only and may not be relied upon for any purpose, including in connection with the purchase or sale of any of our securities. Such information does not constitute an offer to sell or a solicitation of an offer to buy any security described herein.

Non-GAAP Financial Measures: This presentation contains certain non-GAAP financial measures, such as funds from operations ("FFO"), Core FFO, net operating income ("NOI"), EBITDA, and Adjusted EBITDA, which are each defined in NSA's Annual Report. These non-GAAP financial measures are presented because NSA's management believes these measures help investors understand NSA's business, performance and ability to earn and distribute cash to its shareholders by providing perspectives not immediately apparent from net income (loss). These measures are also frequently used by securities analysts, investors and other interested parties. The presentation of FFO, Core FFO, NOI, EBITDA, and Adjusted EBITDA herein are not intended to be considered in isolation or as a substitute for, or superior to, the financial information prepared and presented in accordance with GAAP and should not be considered as alternative measures of liquidity. In addition, NSA's definitions and method of calculating these measures may be different from those used by other companies, and, accordingly, may not be comparable to similar measures as defined and calculated by other companies that do not use the same methodology as NSA. Reconciliations of these non-GAAP financial measures to their most directly comparable GAAP measures for the three months ended June 30, 2021 and 2020 are set forth in the Appendix attached hereto. In addition, reconciliations of these non-GAAP financial measures to their most directly comparable GAAP measures for the three months ended March 31, 2021, 2020, 2019, 2018, and 2017, December 31, 2020, 2019, 2018, 2017 and 2016, September 30, 2020, 2019, 2018, 2017, and 2016, and June 30, 2019, 2018, and 2017 are available in NSA's earnings releases for such period ends, which are furnished to the SEC quarterly as Exhibit 99.1 on Current Reports on Form 8-K pursuant to Item 2.02.







National Storage Affiliates Company Update





407.1%

Total Shareholder Return Since IPO in April 2015

\$8.9B

Total Enterprise Value

Completed Acquisitions
Since IPO(1)

864
Property Portfolio

55.2M

Rentable Square Feet

14.7%

Avg. Quarterly Y-O-Y Increase in Core FFO/Share Since IPO through Q2 2021

34.1%

Y-O-Y Core FFO/Share Growth In Q2 2021 95.4%

Same Store Avg. Occupancy In Q2 2021

21.5%

Y-O-Y Same Store NOI Growth In Q2 2021 Well Diversified; Located in 36 States + Puerto Rico

Unique
Structure with
Participating
Regional
Operators
("PROs")

6th Largest U.S. Operator⁽²⁾



⁽¹⁾ Since the Company's IPO at April 23, 2015 through June 30, 2021; includes ~\$3.2 billion in wholly owned acquisitions and ~\$2.0 billion in Joint Venture acquisitions.

²⁾ Source: 2021 Self Storage Almanac

Portfolio Metrics Update - 2021 Same Store Pool

Metric	Q2 2021	August 2021
Period-End Occupancy	96.7%	96.4%
Year-Over-Year Change in Period-End Occupancy	+720 bps	+530 bps
Year-Over-Year Change in Street Rates	+21.2%	+27.4%



Size and Diversification Reduce Risk

36 States + **Puerto Rico**

864

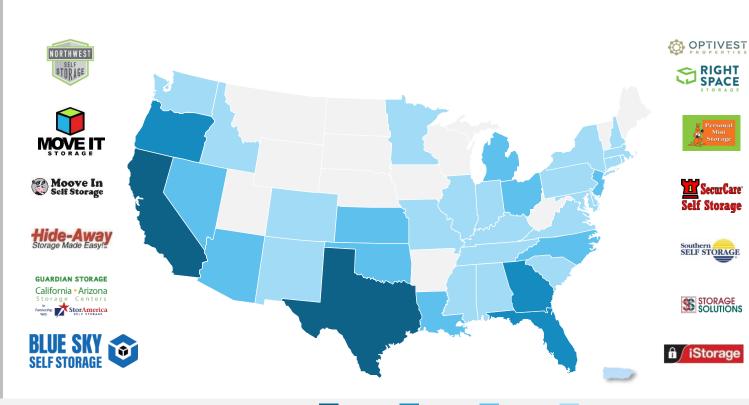
Properties

Wholly-Owned

394 Managed by PROs 293 Managed by SecurCare/iStorage

Joint Venture

All managed by iStorage/SecurCare (NSA has a 25% ownership interest in its two joint ventures)



>10%

5-10%

2-5%

< 2%

% of NSA Properties





Environmental - Social - Governance Highlights

Ε

- 500+ LED lighting retrofit projects completed
- Annual energy savings of 11 million annual kilowatt hours
- Water-saving plumbing devices & eco-friendly landscaping

S

- 33% of senior management (director level & above) are women
- Learning Management System supports employee development
- Donation of \$1 per rental at participating stores to Feeding America to assist in ending food insecurity in America

G

- Independent (82%) and diverse (27% by gender or race) board of trustees
- Vendor awareness of ethical and environmental practices
- ESG Steering Committee formed in 2019

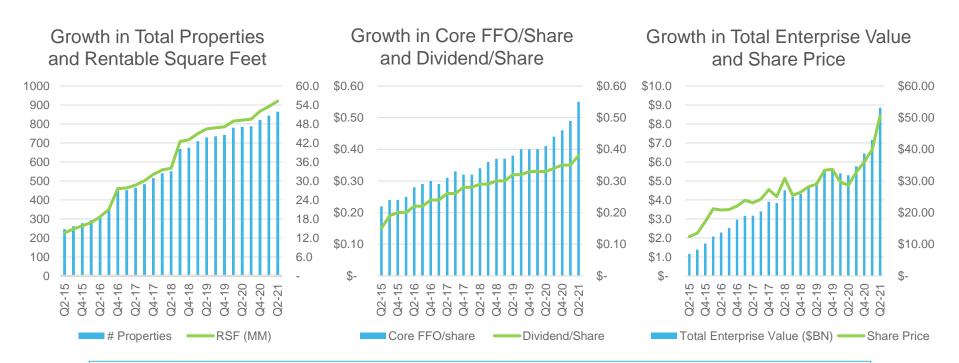


Consistent Sector-Leading Results

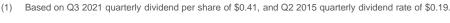


NSA's Transformational Growth Since IPO

NSA's PRO Model Drives All Aspects of Growth



116% Growth in Quarterly Dividend per Share Since IPO(1)

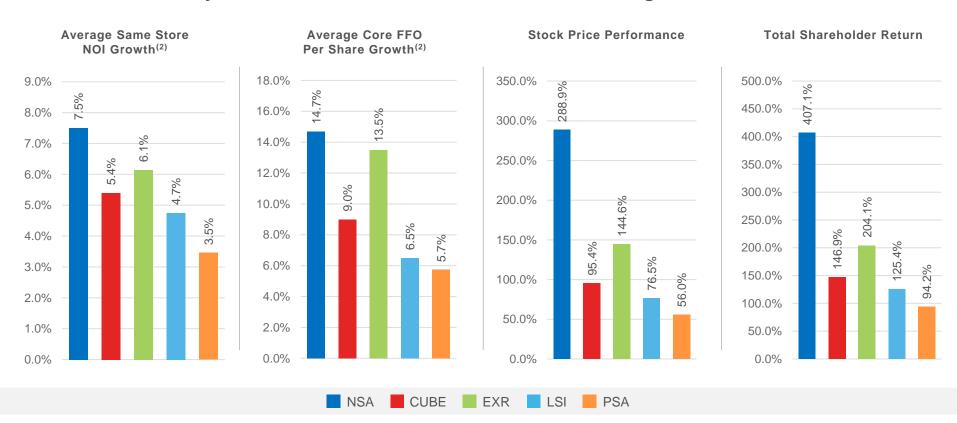






NSA Has Consistently Outpaced REIT Peers Since IPO

Twenty-Five Quarters of Performance Since IPO – through June 30, 2021⁽¹⁾

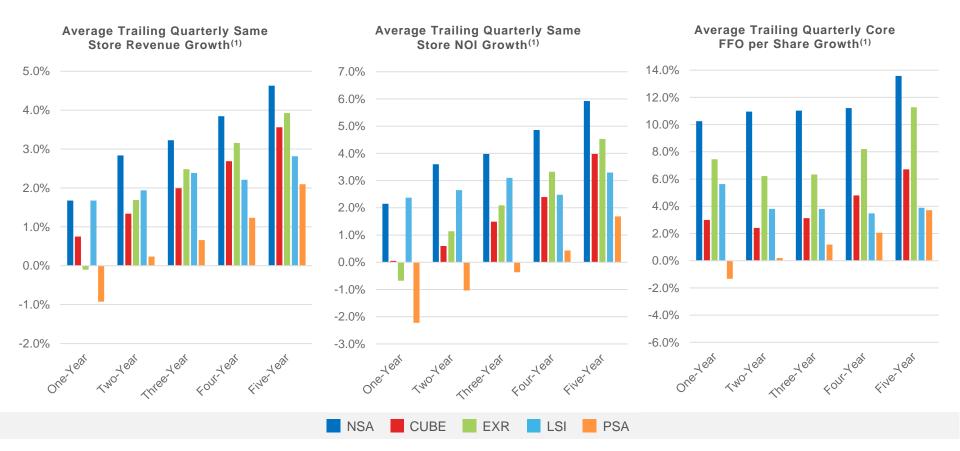


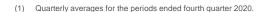
Source: Public reporting and S&P Global Market Intelligence.



Quarterly averages are computed using a simple average of year-over-year quarterly growth rates from second quarter 2015 through second quarter 2021.

NSA Outperforms Over Past Five Calendar Years

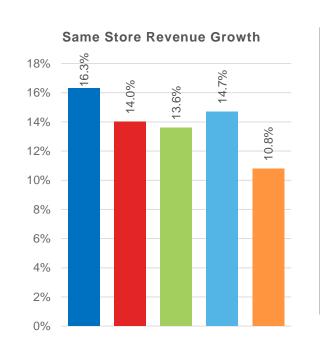


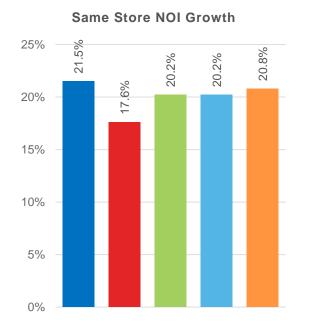




NSA Outperformed in the Second Quarter

Second Quarter 2021 Key Metrics









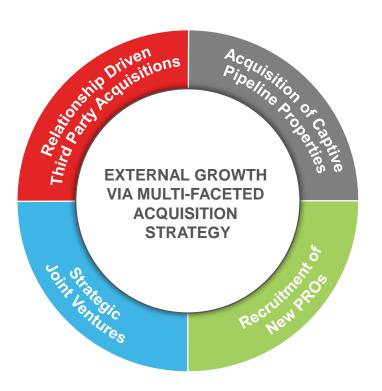


Differentiated PRO Structure Drives Growth



NSA Structure Promotes Internal and External Growth







NSA's Tools and Decentralized Structure Deliver Results

Since IPO in April 2015, NSA has Delivered Average Year-over-Year Same Store Revenue Growth of 5.6% and Same Store NOI Growth of 7.5%







Structure Attracts Disciplined Growth-Oriented Operators

Successful regional operators join NSA as PROs rather than JV or sale options, giving NSA access to top portfolios not otherwise available

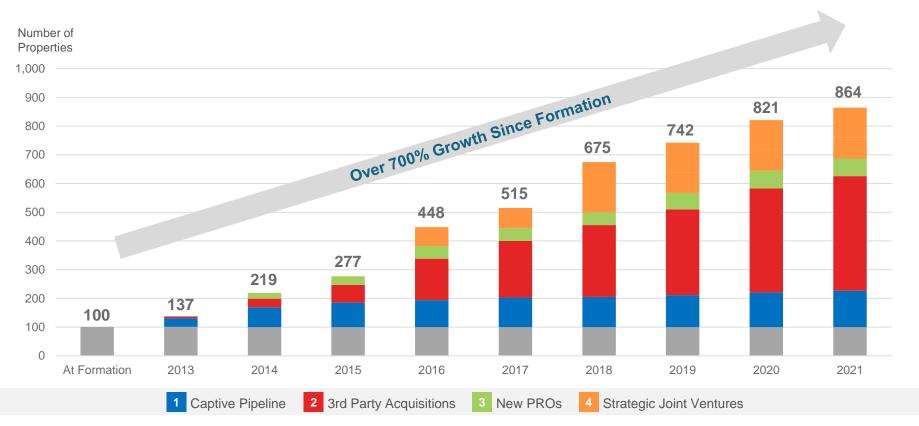
CRITERIA	NSA	JV	SALE / EXIT
Liquidity / Monetization	~	•	•
Ability to Maintain Property Management	~	•	
Participate in Upside	~	•	
Enhance NOI Through Best Practices	✓		
Opportunity and Incentives to Grow Portfolio	✓		



External Growth Has Momentum



Multi-Faceted Acquisition Strategy Drives Growth





Robust Long-Term Acquisition Pipeline

TOTAL ACQUISITION PIPELINE:

330+ **PROPERTIES**

Captive Acquisition Pipeline

- 160+ properties
- Estimated value \$1.8 billion

Potential Buyout of JV Partner Interest

- 177 properties
- JV Partner ownership interest 75%
- Current estimated value of JV partner interest \$1.5 billion⁽¹⁾



Supply Update



NSA's Top 15 Markets – Supply Outlook is Balanced



% of 2021 Budget - All NSA Stores and 25% of JV Stores





Flexible Capital Structure Supports Future Growth





NSA's Flexible Capital Structure Positioned for Growth

BBB Rated by **Kroll Bond Rating** Agency

Key Credit Metrics

23% **Principal Debt** /Total Enterprise Value

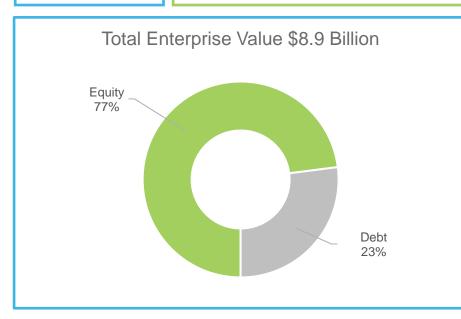
5.4xNet Debt/ Adjusted EBITDA

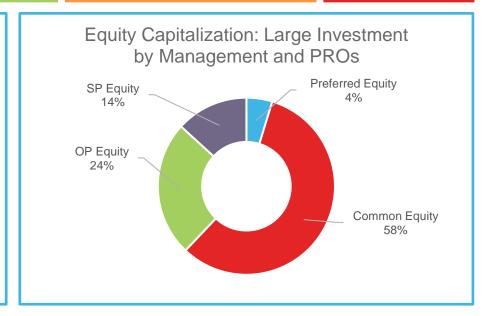
5.5xInterest **Coverage Ratio** **Capital for Growth**

OP & SP \$500MM **Unsecured Revolving Equity Line of Credit**

Attractive Dividend

3.0% Yield









Investment Grade Balance Sheet Provides Strength and Flexibility to Finance Growth

Total Principal Debt Outstanding

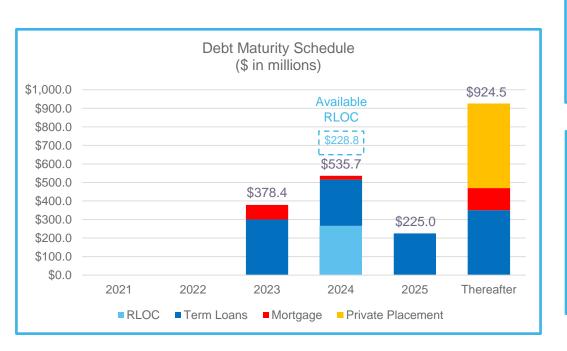
\$2.06B

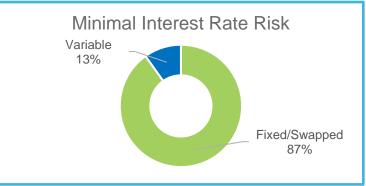
Weighted Average Maturity

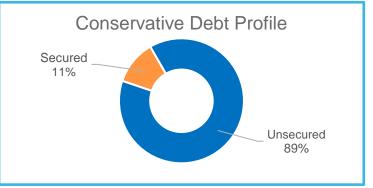
5.1 Years

Effective Interest Rate

3.2%









Appendix



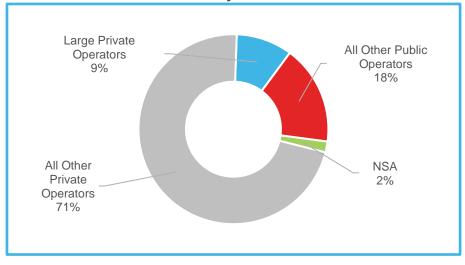
Highly Fragmented Industry: Consolidation Opportunity

- Highly fragmented sector
 - ~49,000⁽¹⁾ self storage properties with over 30,000 operators⁽²⁾
 - Over \$39 billion in annual revenue⁽²⁾
- NSA PRO growth primarily targets top private operators with 20 or more institutional quality properties in the top 100 MSAs
 - Top 100 operators, excluding public REITs and U-Haul, own and/or manage over 4,700 self storage properties





Market Share by # of Facilities



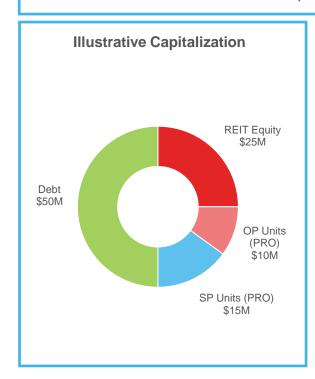


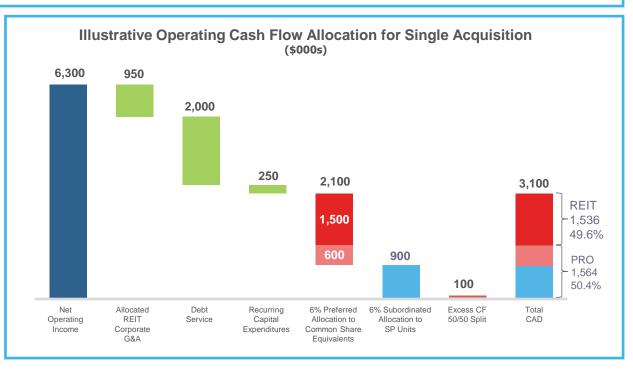
Structure Incentivizes PROs To Perform

Key Assumptions

- \$100MM Purchase Price
- 6.3% Cap Rate

- 50% Funded with Debt
- 50% of Equity from PRO

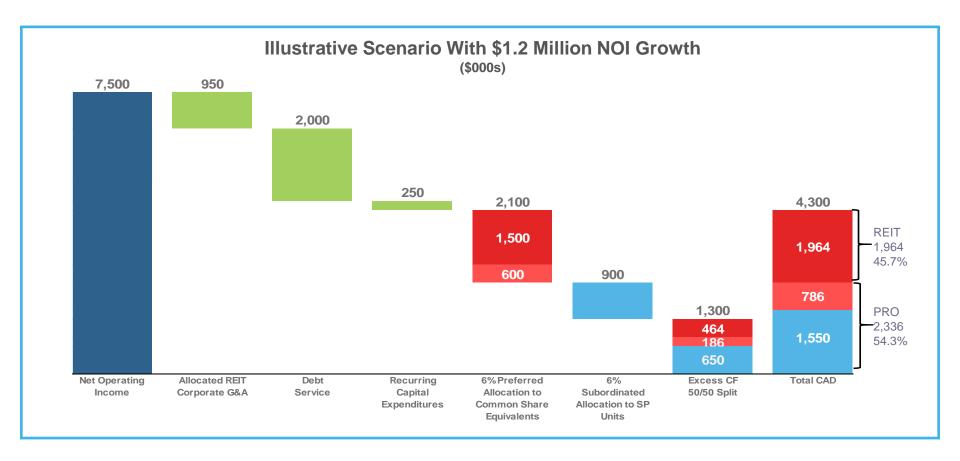




Note: Proportion of SP units and OP units in each acquisition will vary. In general, the number of OP units issued will be capped at a level intended to provide a minimal level of operating cash flow ("CF") allocation on unreturned capital attributable to the OP units. Debt Service is reflective of interest expense and scheduled principal amortization. Post-contribution capital structure is reflective of cost and does not reflect market value. This hypothetical capital structure and cash flow allocation is for illustrative purposes only and reflects the terms of the partnership agreement: SP unit holders receive a 6% allocation of operating CF on their unreturned capital contributions after a 6% allocation on unreturned capital attributable to OP unit holders, and then share in the allocation of any excess cash flow 50/50 with OP unit holders. The REIT is allocated \$36K of the operating CF allocated to OP units related to the 50/50 split of excess operating CF. The allocation of operating CF between the SP units and OP units is for purposes of determining distributions on SP units and does not represent the operating CF that will be distributed on OP units (or paid as dividends on NSA's common shares). Any distribution of operating CF allocated to OP units will be made at the discretion of NSA (and paid as dividends on our common shares at the discretion of our board of trustees).



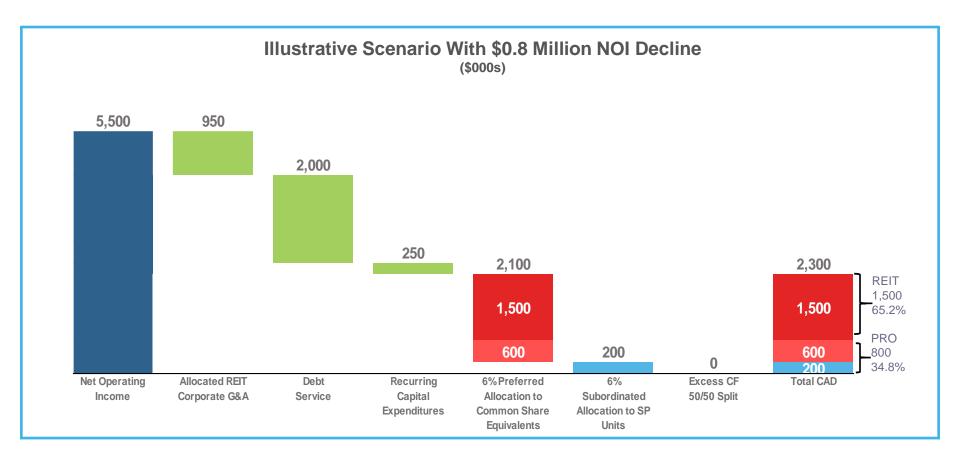
Structure Incentivizes PROs To Perform – Upside Scenario



Note: Proportion of SP units and OP units in each acquisition will vary. In general, the number of OP units issued will be capped at a level intended to provide a minimal level of operating cash flow ("CF") allocation on unreturned capital attributable to the OP units. Debt Service is reflective of interest expense and scheduled principal amortization. Post-contribution capital structure is reflective of cost and does not reflect market value. This hypothetical capital structure and cash flow allocation is for illustrative purposes only and reflects the terms of the partnership agreement: SP unit holders receive a 6% allocation of operating CF on their unreturned capital contributions after a 6% allocation on unreturned capital attributable to OP unit holders, and then share in the allocation of any excess cash flow 50/50 with OP unit holders. The REIT is allocated \$464K of the operating CF allocated to OP units related to the 50/50 split of excess operating CF. The allocation of operating CF between the SP units and OP units is for purposes of determining distributions on SP units and does not represent the operating CF that will be distributed on OP units (or paid as dividends on NSA's common shares). Any distribution of operating CF allocated to OP units will be made at the discretion of NSA (and paid as dividends on our common shares at the discretion of our board of trustees).



Structure Protects NSA Shareholders - Downside Scenario

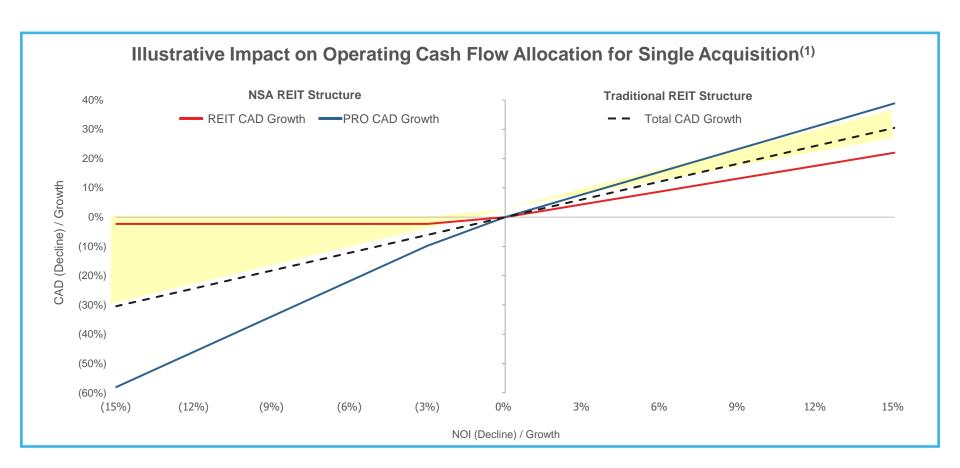


Note: Proportion of SP units and OP units in each acquisition will vary. In general, the number of OP units issued will be capped at a level intended to provide a minimal level of operating cash flow ("CF") allocation on unreturned capital attributable to the OP units. Debt Service is reflective of interest expense and scheduled principal amortization. Post-contribution capital structure is reflective of cost and does not reflect market value. This hypothetical capital structure and cash flow allocation is for illustrative purposes only and reflects the terms of the partnership agreement: SP unit holders receive a 6% allocation of operating CF on their unreturned capital contributions after a 6% allocation on unreturned capital attributable to OP unit holders, and then share in the allocation of any excess cash flow 50/50 with OP unit holders. The REIT is allocated \$0K of the operating CF allocated to OP units related to the 50/50 split of excess operating CF. The allocation of operating CF between the SP units and OP units is for purposes of determining distributions on SP units and does not represent the operating CF that will be distributed on OP units (or paid as dividends on NSA's common shares). Any distribution of operating CF allocated to OP units will be made at the discretion of NSA (and paid as dividends on our common shares at the discretion of our board of trustees).



PRO Structure — Shareholder Cash Flow Stability and Downside Protection

Shareholders benefit from less volatile cash flow and downside protection

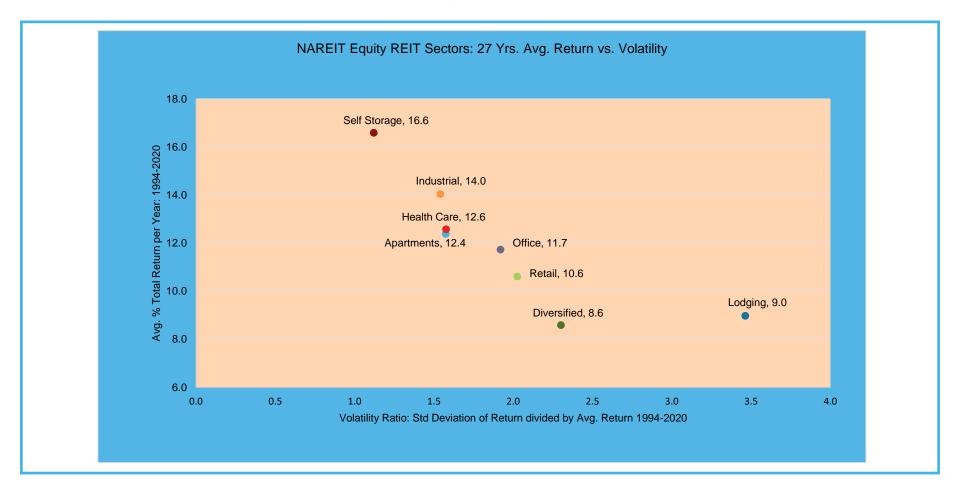


Note: PRO CAD Growth is comprised of cash available to PROs through their ownership interests in both OP and SP units. REIT CAD Growth is comprised of cash available to all other equity stakeholders. (1) This illustrative sensitivity graph reflects the capital structure of a single acquisition and standard NSA operating CF allocation assumptions. This hypothetical capital structure and cash flow allocation is for illustrative purposes only and reflects the terms of the partnership agreement: SP unit holders receive a 6% allocation of operating CF on their unreturned capital contributions after a 6% allocation on unreturned capital attributable to OP unit holders, and then share in the allocation of any excess cash flow 50/50 with OP unit holders. This allocation of operating CF between the SP units and OP units is for purposes of determining distributions on SP units and does not represent the operating CF that will be distributed on OP units (or paid as dividends on NSA's common shares). Any distribution of operating CF allocated to OP units will be made at the discretion of NSA (and paid as dividends on NSA's common shares at the discretion of our board of trustees).



Self Storage: Higher Returns, Lower Volatility

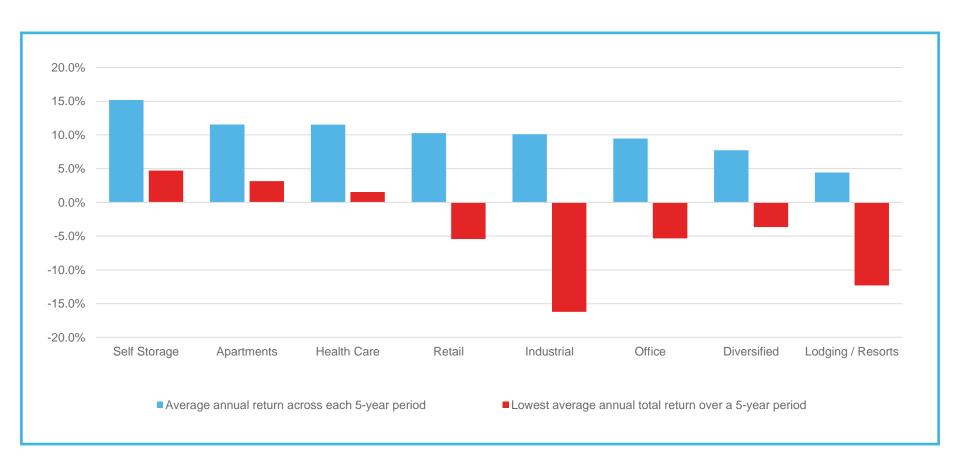
Self Storage total returns have outperformed all other equity REIT sectors for 27 years while experiencing the least volatility





Self Storage Has Outperformed Over the Past 27 Years

Even in the worst five-year period, self storage delivered >4.5% total shareholder return per year









Earnings Per Share – Diluted to Funds From Operations ("FFO") and **Core FFO Per Share and Unit Reconciliation**

	Three Months Ended June 30,			
	2021		2020	
Earnings (loss) per share – diluted	\$	0.25	\$	0.10
Impact of the difference in weighted average number of shares ⁽¹⁾		0.04		(0.03)
Impact of GAAP accounting for noncontrolling interests, two-class method and treasury stock method ⁽²⁾		-		0.07
Add real estate depreciation and amortization		0.33		0.29
Add Company's share of unconsolidated real estate venture real estate depreciation and amortization		0.04		0.04
FFO attributable to subordinated performance unitholders		(0.11)		(0.06)
FFO per share and unit	\$	0.55	\$	0.41
Add acquisition costs		-		-
Core FFO per share and unit	\$	0.55	\$	0.41

Source: Q2 2021 Company financials.

Represents the effect of adjusting the numerator to consolidated net income (loss) prior to GAAP allocations for noncontrolling interests, after deducting preferred share and unit distributions, and before the application of the twoclass method and treasury stock method, as described in footnote(1).



⁽¹⁾ Adjustment accounts for the difference between the weighted average number of shares used to calculate FFO and Core FFO per share and unit. Diluted earnings per share is calculated using the two-class method for the company's restricted common shares and the treasury stock method for certain unvested LTIP units, and assumes the conversion of vested LTIP units into OP units on a one-for-one basis and the hypothetical conversion of subordinated performance units, and DownREIT subordinated performance units into OP units, even though such units may only be convertible into OP units (i) after a lock-out period and (ii) upon certain events or conditions. For additional information about the conversion of subordinated performance units and DownREIT subordinated performance units into OP units, see Note 10 to the Company's most recent Annual Report on Form 10-K, filed with the Securities and Exchange Commission. The computation of weighted average shares and units for FFO and Core FFO per share and unit includes all restricted common shares and LTIP units that participate in distributions and excludes all subordinated performance units and DownREIT subordinated performance units because their effect has been accounted for through the allocation of FFO to the related unitholders based on distributions declared.

Net Income to Net Operating Income Reconciliation

	Three Months Ended June 30,			
	20		20:	20
Net income	\$	35,675	\$	17,787
(Subtract) add:				
Management fees and other revenue		(6,107)		(5,697)
General and administrative expenses		12,450		10,329
Other		310		462
Depreciation and amortization		36,051		29,309
Interest expense		17,339		15,513
Equity in (earnings) losses of unconsolidated real estate ventures		(1,174)		(52)
Acquisition costs		118		252
Income tax expense		675		243
Non-operating expense		148		317
Net Operating Income	\$	95,485	\$	68,463



Net Income to EBITDA & Adjusted EBITDA Reconciliation

	Three Months Ended June 30,			
	202	21	202	20
Net income	\$	35,675	\$	17,787
Add:				
Depreciation and amortization		36,051		29,309
Company's share of unconsolidated real estate venture depreciation and amortization		3,840		3,811
Interest expense		17,339		15,513
Income tax expense		675		243
EBITDA	\$	93,580	\$	66,663
Add (subtract):				
Acquisition costs		118		252
Equity-based compensation expense		1,348		1,151
Adjusted EBITDA	\$	95,046	\$	68,066



Definitions and Methodology

Total Enterprise Value: The sum of the Company's debt principal outstanding plus the perpetual preferred and common equity (on a fully diluted basis) valued at the closing price per share, as of June 30, 2021, of \$27.00 and \$50.56, respectively. SP equity is assumed converted using the hypothetical conversion ratio for the trailing twelve months ended at each respective quarter end, which we publicly disclose each quarter. See Supplemental Schedule 4 to each of our earnings releases which are furnished with the U.S. Securities and Exchange Commission.

Net Debt / Adjusted EBITDA: Total debt less cash and cash equivalents, divided by annualized Adjusted EBITDA for most recently reported quarter.

Interest Coverage Ratio: Computed by dividing Adjusted EBITDA by interest expense for most recently reported guarter.

EBITDA: Net income (loss), as determined under GAAP, plus interest expense, loss on early extinguishment of debt, income taxes, depreciation and amortization expense and the Company's share of unconsolidated real estate venture depreciation and amortization.

Adjusted EBITDA: EBITDA plus acquisition costs, organizational and offering expenses, equity-based compensation expense, losses on sale of properties and impairment of longlived assets, minus gains on sale of properties and debt forgiveness, and after adjustments for unconsolidated partnerships and joint ventures.

Dividend Yield: Calculated based on second quarter 2021 quarterly annualized dividend of \$1.52 divided by market closing price of NSA's common shares on June 30, 2021 of \$50.56.

Effective Interest Rate: Incorporates the stated rate plus the impact of interest rate cash flow hedges and discount and premium amortization, if applicable. For the revolving line of credit, the effective interest rate excludes fees which range from 0.15% to 0.20% for unused borrowings.

Page 22 - Supply Graph Methodology

- We estimate supply growth for each market as follows: first, we add together the expected total net rentable square footage attributable to (i) all Fill-Up and Under Construction Properties and (ii) 25% of all Planned and Prospective Properties. Properties refers to all self storage properties (including NSA's) in the MSAs set forth above, tracked and reported by Yardi Matrix, Fill-Up are stores that have opened in the 24-month period prior to September 9, 2021, Under Construction are those currently under construction. Planned and Prospective are those with a permit in place or an approval pending to build. We divide this number by the total net rentable square footage of all properties in each market.
- We estimate demand growth in each market by adding together (i) Experian's 5-year projections for the percentage increase in household growth in each market plus (ii) 5%, which represents our assumptions with respect to increased demand in each market irrespective of population growth.
- The ratio of supply growth to demand growth is calculated based upon NSA's estimates and assumptions as set forth in footnotes 1 and 2 above. There can be no assurance that supply growth and demand growth in any market will correspond to such estimates. Some or all of our competitor's properties in these markets may not fill up, reach completion or be built at all or on the schedule currently contemplated and increases in population and non-population related demand may differ from our estimates and assumptions.
- Circle sizes correspond to each MSA's % share of NSA's projected 2021 revenue, with JV properties accounted for at NSA's 25% share.



Contact Us

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National Storage Affiliates

NYSE: NSA