

Company Update

January 2021

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," "flan," "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, 2020 (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, and our quarterly report on Form 10-Q filed with the SEC on November 6, 2020 under the headings "management's discussion and analysis of financial condition and results of operations" and "risk factors", 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 September 30, 2020 and 2019 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 June 30, 2020, 2019, 2018, 2017, and 2016, March 31, 2020, 2019, 2018, 2017 and 2016, December 31, 2019, 2018, 2017, 2016 and 2015, and September 30, 2018, 2017 and 2016 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.









Company Update



219.5%

Total Shareholder Return Since IPO

\$5.8B

Total Enterprise Value

\$4.5B

Completed Acquisitions Since IPO⁽¹⁾

788
Property Portfolio

49.5M Rentable Square Feet 13.4%

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

10.0%

Y-O-Y Core FFO/Share Growth In Q3 2020 91.1%

Same Store Avg. Occupancy In Q3 2020

0.2%

Y-O-Y Same Store NOI Growth In Q3 2020 Well Diversified; Located in 35 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 September 30, 2020; includes ~\$2.5 billion in wholly owned acquisitions and ~\$2.0 billion in Joint Venture acquisitions.

²⁾ Source: 2020 Self Storage Almanac

Size and Diversification Reduce Risk

35 States + Puerto Rico

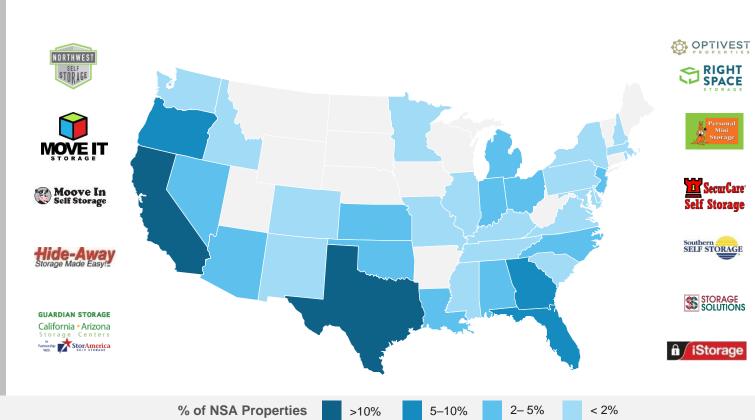
788
Properties

611 Wholly-Owned

343 Managed by PROs 268 Managed by SecurCare/iStorage

177 Joint Venture

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







Environmental - Social - Governance

Highlights from our inaugural ESG report

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- 300+ LED lighting retrofit projects completed
- Annual energy savings of 6 million annual kilowatt hours
- Water-saving plumbing devices & eco-friendly landscaping

S

- 35% of senior management (director level & above) are women
- Learning & Development dept. supports employee engagement
- History of charitable giving, volunteer work and donated storage units

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- Independent (80%) and diverse (20% women) board of trustees
- Vendor attestation on ethical and environmental practices
- ESG Steering Committee formed in 2019

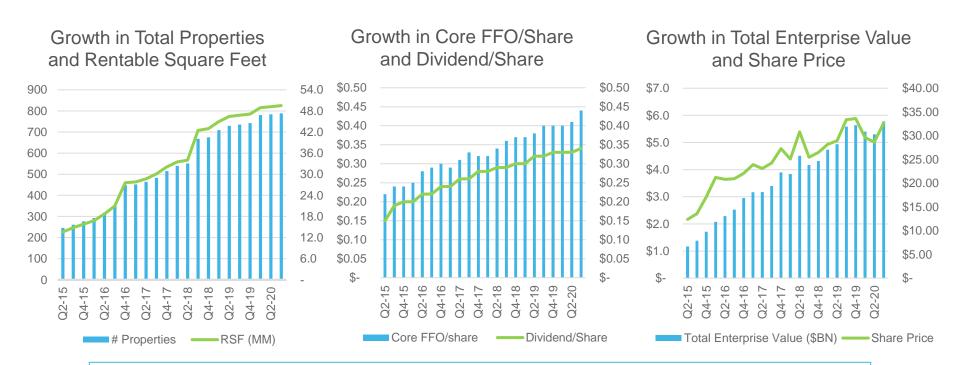




Consistent Sector-Leading Results

NSA's Transformational Growth Since IPO

NSA's PRO Model Drives All Aspects of Growth - Facilitates Dividend and Core FFO per Share Growth Amid Current Recession



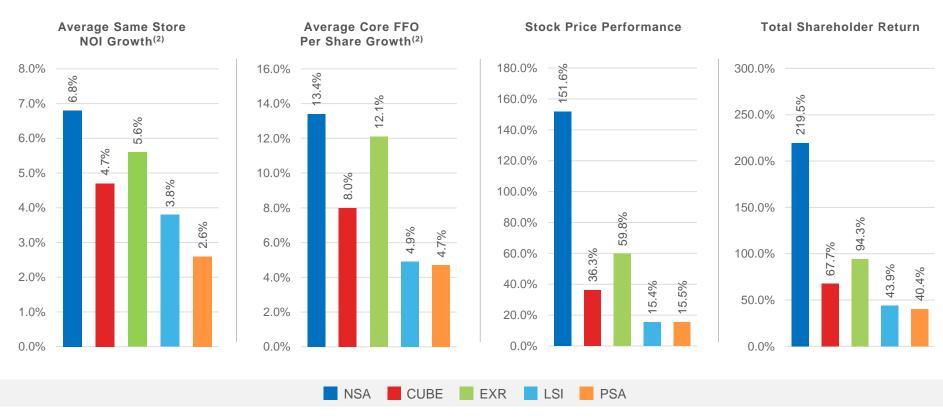
84% Growth in Quarterly Dividend per Share Since IPO(1)





NSA Has Consistently Outpaced REIT Peers Since IPO

Twenty-Two Quarters of Performance Since IPO – through September 30, 2020⁽¹⁾



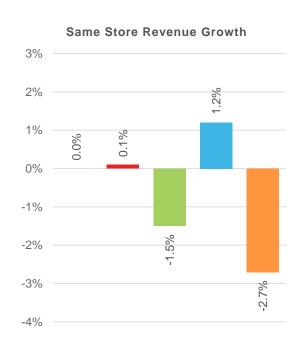
⁽¹⁾ Source: Public reporting and S&P Global Market Intelligence.



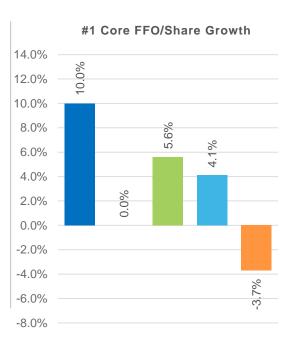
⁽²⁾ Quarterly averages are computed using a simple average of year-over-year quarterly growth rates from second quarter 2015 through third quarter 2020.

NSA's Unique Structure and Geographically Diverse Portfolio Mitigate Downside

Third Quarter 2020 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 5.1% and Same Store NOI Growth of 6.8%







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

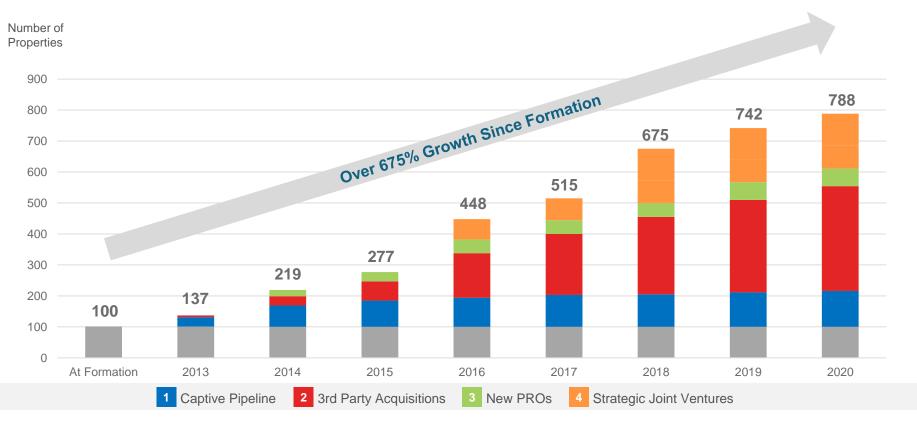
CRITERIA	NSA	JV	SALE / EXIT
Liquidity / Monetization	~	•	•
Ability to Maintain Property Management	~	•	
Participate in Upside	~	•	
Enhance NOI Through Best Practices	✓		
Opportunity and Incentives to Grow Portfolio	✓		





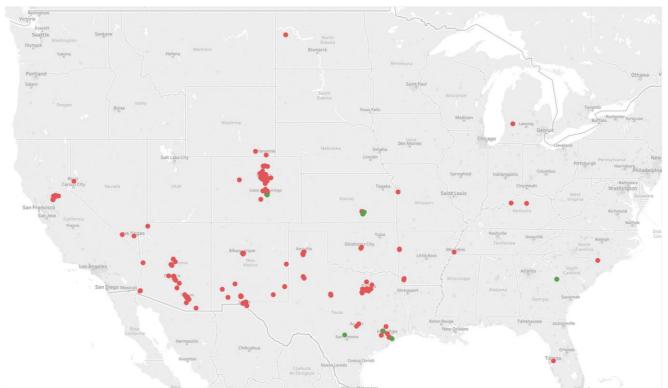
Sector-Leading Growth Has Momentum

Multi-Faceted Acquisition Strategy Drives Growth





New PRO: Blue Sky Self Storage - Q1 2021



Portfolio

- Initial Portfolio
- Captive Pipeline

Total Portfolio

- Initial Portfolio: 7 NSA Properties (~\$37 MM)
- Over 150 Captive Pipeline properties
- Expected closing: Q1 2021

Key Benefits

- Adds large captive pipeline focused on secondary and tertiary markets
- Adds several high-quality, newly developed assets (initial contribution and pipeline)
- Enhances third party acquisition opportunities via established industry relationships



Robust Long-Term Acquisition Pipeline

TOTAL ACQUISITION PIPELINE:

300+
PROPERTIES

\$2.9

Captive Acquisition Pipeline(1)

- 130+ properties
- Estimated value \$1.4 billion

Potential Buyout of JV Partner Interest

- 177 properties
- Estimated value \$2.0 billion
- JV Partner ownership interest 75%
- Current estimated value of JV partner interest \$1.5 billion⁽²⁾



⁽¹⁾ Excludes Blue Sky Self Storage captive pipeline

²⁾ The 75% third-party share of gross real estate assets is approximately \$1.5 billion based on the historical book value of the joint ventures.



Supply Update

NSA's Top 15 Markets - Supply Outlook is Balanced









Flexible Capital Structure Supports Future Growth



NSA's Flexible Capital Structure Positioned for Growth

BBB Rated by **Kroll Bond Rating** Agency

Key Credit Metrics

30% **Principal Debt** /Total Enterprise Value

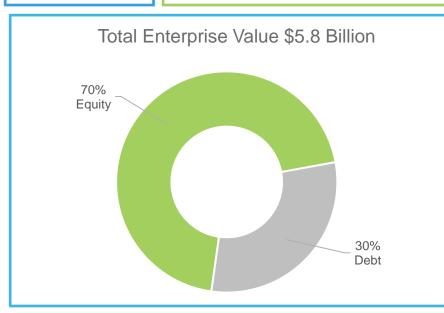
6.0xNet Debt/ Adjusted EBITDA

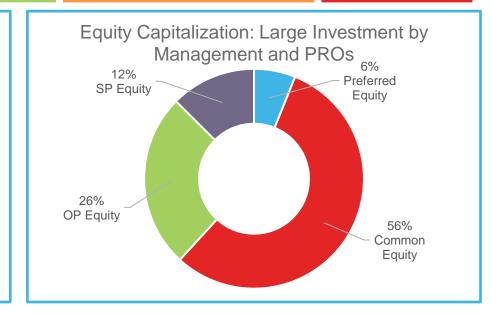
4.7x Interest **Coverage Ratio** **Capital for Growth**

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

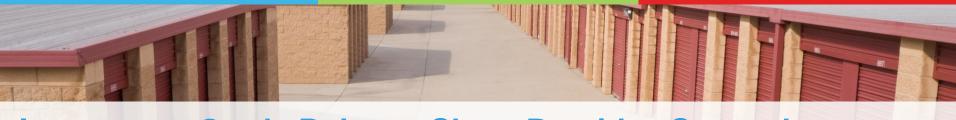
Attractive Dividend

4.2% Yield









Investment Grade Balance Sheet Provides Strength and Flexibility to Finance Growth

All Figures Pro Forma \$250M Debt Private Placement (1)

Total Principal Debt Outstanding

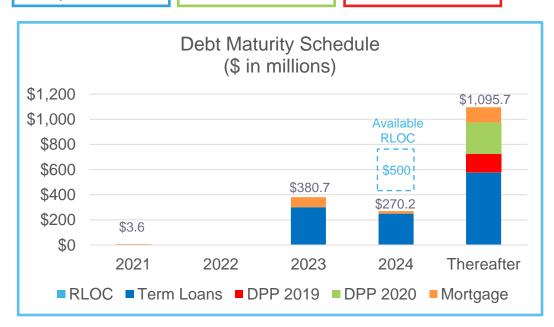
\$1.75B

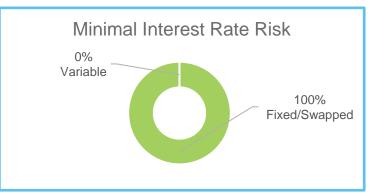
Weighted Average Maturity

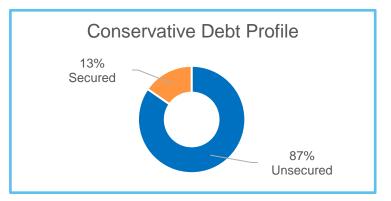
6.0 Years

Effective Interest Rate

3.5%







Principal debt outstanding as of September 30, 2020, after giving pro forma effect to the issuance of senior unsecured notes. The Company entered into a debt private placement agreement on August 4, 2020 to issue \$250MM of senior unsecured notes (\$150M of 2.99% senior unsecured notes due August 5, 2030 and \$100M of 3.09% senior unsecured notes due August 5, 2032), which funded on October 22, 2020,



See description of terms in Appendix: Definitions and Methodology

PRO Structure Reduces Downside Risk in a Recession

PROs absorb a disproportionate share of downside if NOI declines

- Approximately 60% of NSA's wholly-owned portfolio has downside protection associated with PRO SP ownership interests.
- PROs absorb 50% of the NOI declines from current levels until the 6% preferred allocation to SP equity is reached for a PROs managed portfolio.
- PROs then absorb 100% of the NOI declines until the 6% preferred allocation to SP equity is eroded completely. The 6% preferred allocation to SP equity is non-cumulative.

This has the same effect as a lower leverage ratio

 Given PROs absorb a disproportionate share of NOI declines, the lower cash flow volatility to NSA has the same effect as reduced financial leverage.

This also enhances dividend coverage

 Under the PRO structure, NOI would have to decline substantially further than under a normal structure before dividend coverage becomes at risk.





Appendix

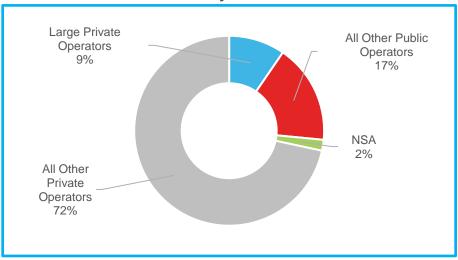
Highly Fragmented Industry: Consolidation Opportunity

- **Highly fragmented sector**
 - ~48,000⁽¹⁾ self storage properties with over 30,000 operators⁽²⁾
 - Over \$34 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, own and/or manage over 4,500 self storage properties⁽³⁾

Self Storage Top Operator Market Share



Market Share by # of Facilities





²⁰²⁰ Self-Storage Almanac based on total NRSF; survey excludes small, rural facilities.

Self Storage Association estimates.

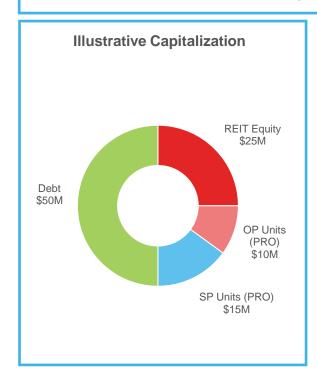
Represents the number of facilities owned and/or managed by top operators, excluding NSA and other publicly traded entities.

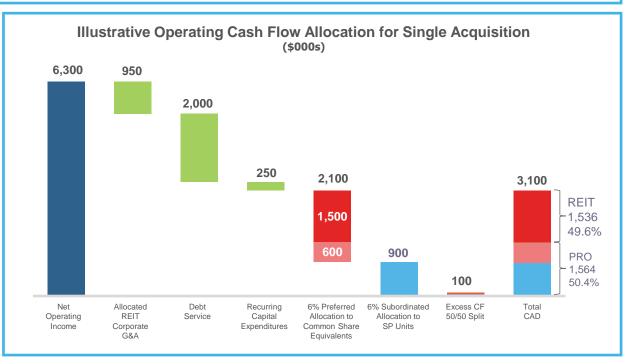
Structure Incentivizes PROs To Perform

Key Assumptions

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

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

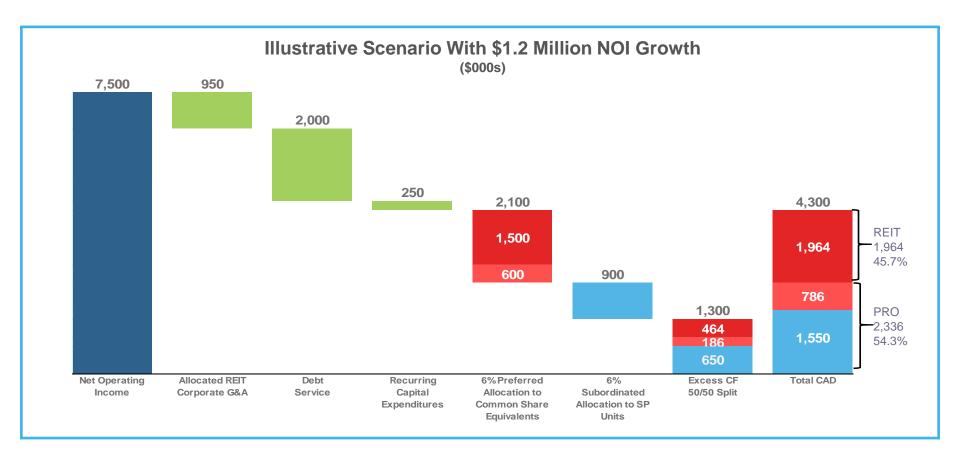




Note: Proportion of SP units and OP units in each acquisition will vary. In general, the number of OP units issued will be capped at a level intended to provide a minimal level of operating cash flow ("CF") allocation on unreturned capital attributable to the OP units. Debt Service is reflective of interest 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).



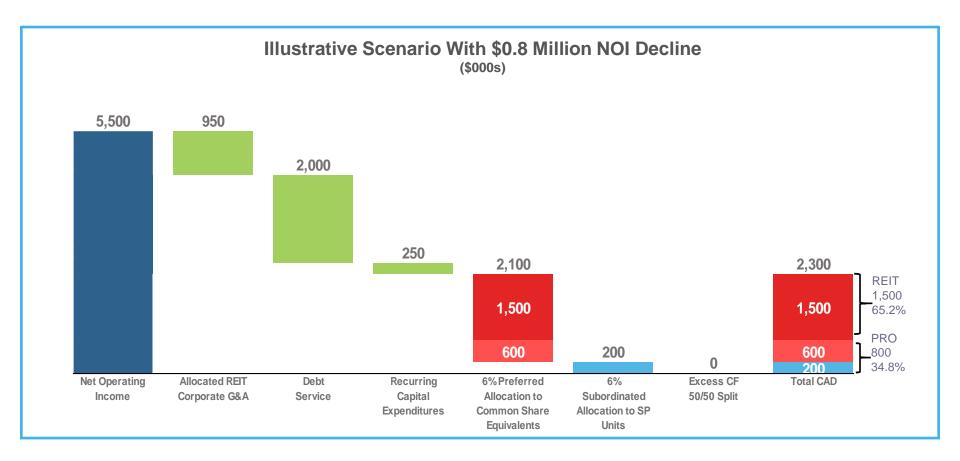
Structure Incentivizes PROs To Perform – Upside Scenario



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

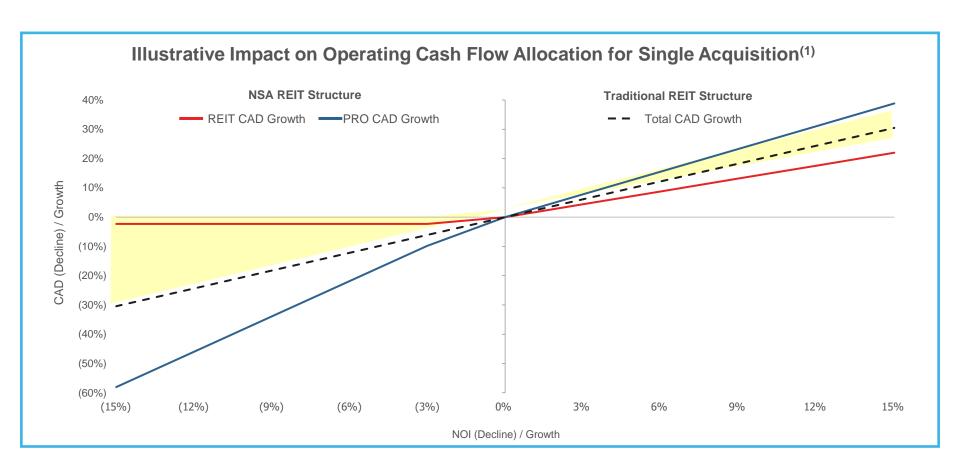


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PRO Structure — Shareholder Cash Flow Stability and Downside Protection

Shareholders benefit from less volatile cash flow and downside protection

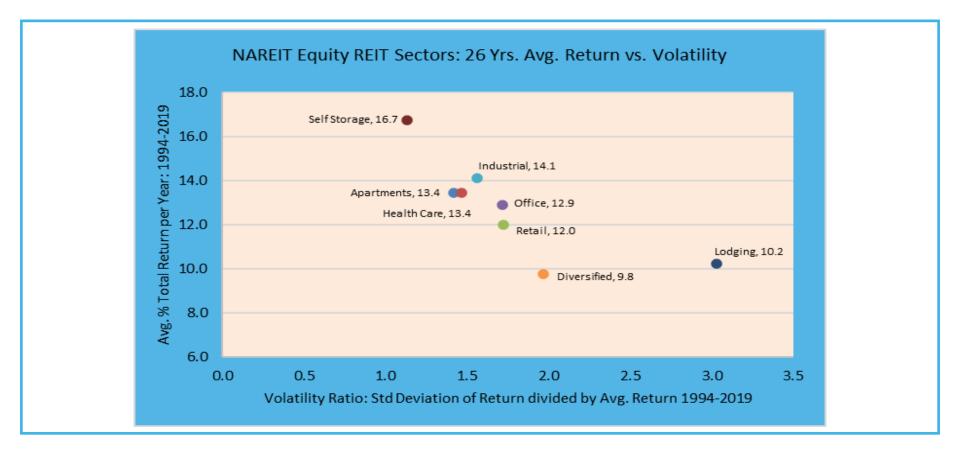


Note: PRO CAD Growth is comprised of cash available to PROs through their ownership interests in both OP and SP units. REIT CAD Growth is comprised of cash available to all other equity stakeholders. (1) This illustrative sensitivity graph reflects the capital structure of a single acquisition and standard 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

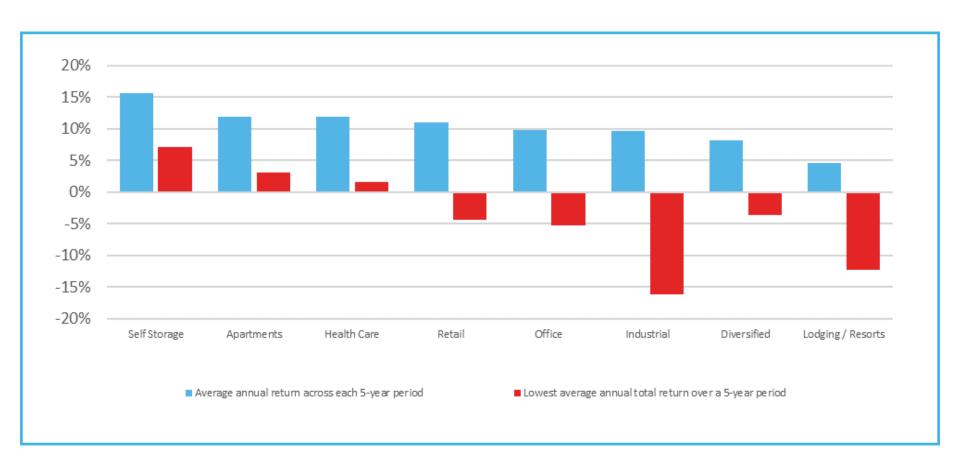
Self Storage total returns have outperformed all other equity REIT sectors for 26 years while experiencing the least volatility





Self Storage Has Outperformed Over the Past 26 Years

Even in the worst five-year period, self storage delivered >7% 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 September 30,),	
	202	2020		2019	
Earnings (loss) per share – diluted	\$	0.15	\$	(0.20)	
Impact of the difference in weighted average number of shares ⁽¹⁾		(0.05)		0.07	
Impact of GAAP accounting for noncontrolling interests, two-class method and treasury stock method ⁽²⁾		0.08		0.26	
Add real estate depreciation and amortization		0.28		0.30	
Add Company's share of unconsolidated real estate venture real estate depreciation and amortization		0.04		0.06	
FFO attributable to subordinated performance unitholders		(0.07)		(0.10)	
FFO per share and unit	\$	0.43	\$	0.39	
Add acquisition costs		0.01		0.01	
Core FFO per share and unit	\$	0.44	\$	0.40	

Source: Q3 2020 Company financials.



⁽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, 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.

⁽²⁾ 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 two-class method and treasury stock method, as described in footnote (1).

Net Income to Net Operating Income Reconciliation

	Three Months Ended September 30,			
	2020)	20)19
Net income	\$	21,411	\$	16,514
(Subtract) add:				
Management fees and other revenue		(5,901)		(5,374)
General and administrative expenses		10,818		11,271
Other		479		768
Depreciation and amortization		28,933		27,598
Interest expense		15,262		14,432
Equity in (earnings) losses of unconsolidated real estate ventures		(37)		1,214
Acquisition costs		596		321
Income tax expense		346		223
Non-operating expense		120		8
Net Operating Income	\$	72,027	\$	66,975



Net Income to EBITDA & Adjusted EBITDA Reconciliation

	I.	hree Months Ende	d September :	30,
	20)20	20)19
Net income	\$	21,411	\$	16,514
Add:				
Depreciation and amortization		28,933		27,598
Company's share of unconsolidated real estate venture depreciation and amortization		3,830		5,197
Interest expense		15,262		14,432
Income tax expense		346		223
EBITDA	\$	69,782	\$	63,964
Add (subtract):				
Acquisition costs		596		321
Equity-based compensation expense		1,183		1,153
Adjusted EBITDA	\$	71,561	\$	65,438



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 September 30, 2020, of \$26.49 and \$32.71, 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 current quarterly annualized dividend of \$1.36 divided by market closing price of NSA's common shares on September 30, 2020 of \$32.71.

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 21 - Supply Graph Methodology

- 1. 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 25, 2020. 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 2020 revenue, with JV properties accounted for at NSA's 25% share.



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