

Webinar

Moderate-Income Rental Housing: A New Asset Class

Date: February 17, 2023

00:00:04> 00:00:07:	Thank you all for joining us this afternoon. My name
00:00:07> 00:00:09:	is Jane Hutton and I work with the ULI Twilligear
00:00:09> 00:00:12:	Center for housing. As a note, this webinar will be
00:00:12> 00:00:15:	recorded and available to view on demand on utilized
	knowledge
00:00:15> 00:00:18:	Finder. After the fact. Before I turn it over to
00:00:18> 00:00:21:	our panel, a few housekeeping notes if you're not familiar
00:00:21> 00:00:25:	with us. The Trullinger Center for Housing integrates utilized wide-ranging
00:00:25> 00:00:28:	housing activities to a program of work with three objectives
00:00:28> 00:00:30:	to catalyze the production of housing.
00:00:31> 00:00:34:	Provide thought leadership on the housing industry and inspire a
00:00:34> 00:00:35:	broader commitment to housing.
00:00:36> 00:00:39:	It's part of our work. We organized the annual Housing
00:00:39> 00:00:42:	Opportunity Conference. The conference is one of the nation's premier
00:00:42> 00:00:46:	meetings of the residential development, lending, investing and policy community
00:00:46> 00:00:49:	brings together a diverse mix of private and nonprofit real
00:00:49> 00:00:53:	estate developers, public officials, urban and regional planners, housing advocates,
00:00:54> 00:00:57:	architects, investors and lenders with one common goal to expand
00:00:57> 00:01:01:	housing opportunities in their communities. Conference and tour tickets are
00:01:01> 00:01:03:	selling quickly, so I recommend that you book soon. More
00:01:04> 00:01:06:	information can be found on our website at housing.
00:01:06> 00:01:11:	Conference.uli.org and you can also e-mail housing at uli.org with
00:01:11> 00:01:15:	any questions. So without further ado, like to introduce David

00:01:16> 00:01:20:	Steinwedell of Affordable Central TX to present the work that
00:01:20> 00:01:24:	they're doing and also discuss the findings of a recent
00:01:24> 00:01:27:	report, the link to which I've just put in the
00:01:27> 00:01:28:	chat.
00:01:29> 00:01:31:	I'm going to go ahead and pull up some slides
00:01:31> 00:01:33:	and David, you can take it away.
00:01:33> 00:01:38:	Awesome. Well, thank you Jane and welcome everybody. I appreciate
00:01:38> 00:01:41:	you spending time today on it's we've got over 700
00:01:41> 00:01:46:	and attendees who signed up for this. So obviously affordable
00:01:46> 00:01:49:	housing is a topic of of interest and you know
00:01:49> 00:01:53:	kind of across the you know across the spectrum of
00:01:53> 00:01:57:	folks and we're discussing today report that was put together
00:01:57> 00:01:59:	on moderate income rental housing.
00:02:00> 00:02:05:	I'm with the fordable Central TX and we're the sponsor
00:02:05> 00:02:10:	of the Austin Housing Conservancy Fund, which is a private
00:02:10> 00:02:15:	equity fund that is run by a nonprofit to preserve
00:02:15> 00:02:19:	moderate income and workforce housing in Central TX.
00:02:20> 00:02:25:	One of our supporters has been Wells Fargo, and Wells
00:02:25> 00:02:28:	Fargo provided a grant to work with.
00:02:30> 00:02:34:	The authors of this report and and to address, you
00:02:34> 00:02:40:	know, the use of of institutional and other capital to
00:02:40> 00:02:43:	invest in this type of housing.
00:02:45> 00:02:48:	You know, as mentioned, there's a link to the report
00:02:48> 00:02:52:	in the chat that can be downloaded off of our
00:02:52> 00:02:55:	off of our website, but I think the the you
00:02:55> 00:02:55:	know.
00:02:56> 00:03:00:	Behind the idea of of moderate income housing is is
00:03:00> 00:03:04:	the is the concept that a portability isn't just limited
00:03:04> 00:03:08:	now to you know those that are homeless or in
00:03:08> 00:03:12:	poverty or at low and very low income levels. But
00:03:12> 00:03:17:	it's actually now expanded to, you know, areas that traditionally
00:03:17> 00:03:22:	could afford housing, rental housing and for sale housing that
00:03:22> 00:03:25:	are now being burdened by spending more than 30% of
00:03:26> 00:03:26:	their.
00:03:26> 00:03:31:	On their income, on, on housing. And now that's moved
00:03:31> 00:03:36:	into you know what's now defined as moderate income, 60
00:03:36> 00:03:40:	to 80% of of median family income. But probably
00:03:41> 00:03:47:	more importantly that's where teachers and 1st responders and medical
00:03:47> 00:03:51:	workers and entry level employees all are.

00:03:52> 00:03:55:	Cohort of and all these folks are now being challenged
00:03:55> 00:03:57:	with their housing needs.
00:04:00> 00:04:03:	I'm going to introduce the authors and then turn things
00:04:03> 00:04:06:	over to them. You know, first we have Mark Roberts,
00:04:06> 00:04:09:	who's a lecturer at the Cox School of Business and
00:04:09> 00:04:13:	Director of Research at the Folsom Real Estate Institute at
00:04:13> 00:04:17:	Southern Methodist University. And at Crow Holdings Capital is also,
00:04:17> 00:04:20:	we have Jake Wegman, who is an associate professor and
00:04:20> 00:04:23:	the PhD program director in the Community and Regional planning
00:04:24> 00:04:27:	program within the School of Architecture at the University of
00:04:27> 00:04:28:	Texas at Austin.
00:04:30> 00:04:33:	You know, these guys did fantastic work putting this report
00:04:33> 00:04:36:	together. Jake, I will turn it over to you.
00:04:37> 00:04:40:	Thank you, David. And just before I turn it over
00:04:40> 00:04:43:	to, to, to our lead author Mark Roberts, just wanted
00:04:43> 00:04:45:	to say a quick thing about what do we call
00:04:46> 00:04:49:	this thing that we're going to be talking about today.
00:04:49> 00:04:52:	It was actually something that we had a lot of
00:04:52> 00:04:55:	discussion about. You know there are a few different terms
00:04:55> 00:04:58:	out there that you hear and that we might argue
00:04:58> 00:05:01:	aren't maybe the best terms. One of them you hear
00:05:01> 00:05:04:	a lot is workforce housing. You know that's often used
00:05:04> 00:05:07:	to describe you know let's call it middle income.
00:05:07> 00:05:11:	Rental housing, the trouble with that is as everyone here
00:05:11> 00:05:13:	knows, is that there are a lot of people who
00:05:13> 00:05:16:	are making, you know, way down the income scale who
00:05:16> 00:05:20:	work and they just simply can't afford housing. So we
00:05:20> 00:05:23:	think that we, you know, we don't think that workforce
00:05:23> 00:05:26:	housing is really the right term anymore. Another one that
00:05:27> 00:05:30:	you hear is Noah or naturally occurring affordable housing, but
00:05:30> 00:05:34:	that's sometimes has connotations of sort of old or deteriorated
00:05:34> 00:05:37:	housing stock which is, you know, not.
00:05:37> 00:05:41:	What we're talking about here today and then you'll finally
00:05:41> 00:05:44:	you also hear missing metal and the trouble with that
00:05:45> 00:05:48:	is that's often used to refer to small scale medium
00:05:48> 00:05:52:	density housing as opposed to middle income housing. So we
00:05:52> 00:05:55:	thought at the risk of coming up with the wrong
00:05:55> 00:05:58:	term, we would coin a phrase, it's very neutral and

00:05:58> 00:06:02:	we're just simply calling the thing that we're talking about
00:06:02> 00:06:06:	today moderate income rental housing or murder if you want
00:06:06> 00:06:07:	acute acronym for it.
00:06:07> 00:06:10:	But you know, of course we're completely open to to
00:06:11> 00:06:15:	other and better suggestions for what we're talking about, but
00:06:15> 00:06:17:	we do, we do think it was important to name
00:06:18> 00:06:20:	it. So with that I'm going to turn it over
00:06:20> 00:06:23:	to Mark to to dive into the details here.
00:06:24> 00:06:28:	Thank you, Jake, and hopefully everybody can hear me. Listen,
00:06:28> 00:06:31:	I just want to give my thanks to to David
00:06:31> 00:06:35:	Stein, Weddle and the team at affordable Central TX as
00:06:35> 00:06:39:	well as the Wells Fargo Foundation and everybody there. They
00:06:39> 00:06:42:	were terrific. They let Jake and me take the research
00:06:43> 00:06:46:	wherever it would take us in terms of being objective
00:06:46> 00:06:49:	about the question that they put to us and the
00:06:49> 00:06:53:	question they put to us is does this category of
00:06:53> 00:06:54:	housing this moderate?
00:06:54> 00:06:58:	And can rental housing produce the type of total returns
00:06:58> 00:07:03:	and performance characteristics that institutional investors
	are investors in general
00:07:03> 00:07:07:	should consider as part of their portfolio? Well, to the
00:07:07> 00:07:10:	best of my knowledge having worked at with Nate Creef
00:07:10> 00:07:14:	over the years, Nate Creef is the National Council of
00:07:14> 00:07:18:	Real Estate investment fiduciary. I wasn't Jake and I weren't
00:07:18> 00:07:21:	really aware of any empirical evidence that looked at this
00:07:22> 00:07:25:	category of housing and evaluated the the returns and.
00:07:25> 00:07:29:	Risk and the correlation. So those are things that are
00:07:29> 00:07:33:	very important to institutional investors. So we had to go
00:07:33> 00:07:36:	ahead and develop an index of our own.
00:07:37> 00:07:41:	And the question that the the team at Wells Fargo
00:07:41> 00:07:46:	Foundation and Affordable Central Texas put to us was simply
00:07:47> 00:07:51:	this, do the performance of buildings which offer a rent
00:07:51> 00:07:56:	level which somebody earning 80% or less of area, median
00:07:56> 00:08:01:	family income or area family income or median family income
00:08:01> 00:08:05:	can afford. So why don't we go to the 4th
00:08:05> 00:08:06:	slide and talk about.
00:08:07> 00:08:10:	Uh, just how, yeah, this is a great one this
00:08:10> 00:08:13:	now go ahead and go back to that first slide,
00:08:13> 00:08:16:	the yeah, so here is here is the basic objective
00:08:16> 00:08:20:	and what are the, what are the performance and operating

00:08:21> 00:08:25:	characteristics of those types of buildings. And we had to
00:08:25> 00:08:29:	work pretty hard pretty meticulously looking at some data
	which
00:08:29> 00:08:33:	I'll explain in a minute. And also just want to
00:08:33> 00:08:36:	also thank Jeff Fisher at Nate Creef. We utilize a
00:08:36> 00:08:37:	lot of.
00:08:37> 00:08:41:	Minecraft data, that's for those that may not be familiar
00:08:41> 00:08:45:	with it. Nate Reef is an organization which collects the
00:08:45> 00:08:49:	performance of buildings that are owned by its members. It
00:08:49> 00:08:52:	has well over 100 and 150 members who combined own
00:08:52> 00:08:57:	almost a trillion dollars worth of real estate assets across
00:08:57> 00:09:01:	the US, covering approximately 10,000 buildings and within when we
00:09:01> 00:09:06:	undertook this research at the time, the apartment category from
00:09:06> 00:09:08:	which we're going to extract.
00:09:08> 00:09:11:	Some of this data had roughly about 191 billion and
00:09:11> 00:09:14:	close to 2000 assets in it. So we thought this
00:09:14> 00:09:16:	would be a good place to start. But what we
00:09:16> 00:09:19:	had to do was to try and figure out how
00:09:19> 00:09:23:	we're going to segment those buildings into these two different
00:09:23> 00:09:25:	categories. So if we go to the next slide and
00:09:25> 00:09:28:	just want to show you sort of the methodology of
00:09:28> 00:09:32:	what we went through, I'll talk through the methodology briefly
00:09:32> 00:09:35:	and then get into the results and the implications for
00:09:35> 00:09:38:	some of this. So in terms of the methodology.
00:09:38> 00:09:42:	We started with that Nate Creef data set and Nate
00:09:42> 00:09:46:	Creef does report on the performance of apartments in 48
00:09:46> 00:09:50:	different cities or MSA's across the US and we had
00:09:50> 00:09:54:	to filter for that from those 48 cities, which of
00:09:54> 00:09:58:	those cities had at least 20 assets going back over
00:09:58> 00:10:01:	time, so we could build a time series of total
00:10:01> 00:10:05:	returns. And in this chart, you'll see that we have
00:10:05> 00:10:08:	a reference some exhibits in this chart.
00:10:08> 00:10:12:	Those exhibits can be found in the article that we
00:10:12> 00:10:15:	have put together in the research via the link in
00:10:15> 00:10:18:	the chat room. Yeah, you can pull it down and
00:10:18> 00:10:21:	and look at the read the whole paper. So we
00:10:21> 00:10:25:	started with filtering for those MSA's and I should note
00:10:25> 00:10:28:	also our need to work with NAKRI fund. This Snake
00:10:29> 00:10:33:	reef maintains some confidentiality and so they don't report

on

	on
00:10:33> 00:10:38:	the performance of individual buildings, although they hold those, the
00:10:38> 00:10:39:	performance of those.
00:10:39> 00:10:41:	Buildings in their database.
00:10:42> 00:10:46:	And once they have a minimum of four assets owned
00:10:46> 00:10:51:	by at least three different types of investors, they'll they'll
00:10:51> 00:10:56:	create a sub index for a particular city or category.
00:10:56> 00:10:59:	So we were able to look at the the 38
00:10:59> 00:11:03:	cities that did have a time series that went back
00:11:03> 00:11:03:	to 2000.
00:11:04> 00:11:07:	And then we had to create a time series of
00:11:07> 00:11:10:	what is a monthly cost of rent so that somebody
00:11:10> 00:11:14:	can afford. And so we want to utilize data from
00:11:14> 00:11:17:	the from HUD where it posts what me and family
00:11:17> 00:11:21:	income is. Going back to 2000. We really had to
00:11:21> 00:11:24:	scrub a lot of that data just because of how
00:11:24> 00:11:28:	the government changes the nomenclature over time. We make all
00:11:28> 00:11:32:	that data available in the report for other researchers who
00:11:33> 00:11:34:	want to use it or access.
00:11:34> 00:11:38:	To do some of their own analysis and we simply
00:11:38> 00:11:42:	had to convert that to that multifamily or that median
00:11:42> 00:11:46:	family income into maximum monthly shelter cost and there's
	a
00:11:47> 00:11:50:	pretty simple formula just taking 80% of MFI.
00:11:51> 00:11:55:	Or you know, taking the annual MF, I multiply it
00:11:55> 00:11:57:	by 80% so we we get sort of a cut
00:11:57> 00:12:01:	off there. And then for the HUD definition, affordable housing
00:12:01> 00:12:05:	would be something that is that would cost 30% of
00:12:05> 00:12:08:	that 80%. The next thing we had to do was
00:12:08> 00:12:11:	come up with the monthly utility cost, which wasn't easy
00:12:11> 00:12:15:	unto itself, but we utilized a couple of different sources
00:12:16> 00:12:19:	there, the American Housing Survey as well as the US
00:12:19> 00:12:21:	Energy Information Agency.
00:12:21> 00:12:25:	And we looked at that, we created a time series
00:12:25> 00:12:29:	for those 38 metros. Interestingly enough, when we found out
00:12:29> 00:12:33:	what that cost was as a percentage of median family
00:12:33> 00:12:36:	income, it amounted to about 3.8%. And and that was
00:12:36> 00:12:39:	a good check for us because we looked at the
00:12:40> 00:12:43:	CPI and found that the weight of those categories within
00:12:44> 00:12:47:	the CPI basket was about 3.3%. So we felt that
00:12:47> 00:12:50:	we were pretty close in terms of some of our

00:12:50> 00:12:52:	monthly utility costs.
00:12:52> 00:12:55:	So what we essentially did is just subtract those utility
00:12:55> 00:12:59:	costs from the maximum monthly shelter cost and we ended
00:12:59> 00:13:01:	•
	up with an acre if net rents or that we
00:13:01> 00:13:05:	could net rents that we could take and they create
00:13:05> 00:13:08:	so that they could filter the buildings. And what we're
00:13:08> 00:13:10:	what we aim to do is we ask them to
00:13:10> 00:13:14:	filter the buildings into those that had a rent level
00:13:14> 00:13:17:	which was below our maximum threshold and then those that
00:13:17> 00:13:21:	were above the maximum threshold. And from this we were
00:13:21> 00:13:23:	able to create a national index.
00:13:23> 00:13:27:	Now in that national index, the the composition of properties
00:13:27> 00:13:30:	can change over time. So perhaps that was a period
00:13:30> 00:13:33:	where the building had a below a rent level which
00:13:33> 00:13:35:	was a below our threshold and then in the next
00:13:35> 00:13:39:	quarter it moved above to that threshold. So we wouldn't
00:13:39> 00:13:42:	necessarily have a same store analysis on that, it would
00:13:42> 00:13:45:	be biased. So for that reason we also created vintage
00:13:45> 00:13:49:	year indices, three of those where if the property qualified
00:13:49> 00:13:52:	in that year then we kept it through the whole
00:13:52> 00:13:53:	term and analyzed.
00:13:54> 00:13:57:	And ultimately we were able to calm down the number
00:13:57> 00:14:01:	of cities and and actually had enough data and enough
00:14:01> 00:14:05:	sample, large enough sample size in essentially 11 different cities
00:14:06> 00:14:09:	where the sample size is large enough where we could
00:14:09> 00:14:13:	have those two categories, the above murder and the
	bloomer.
00:14:13> 00:14:16:	So let's go and look at the results and the
00:14:16> 00:14:19:	conclusions of some of that. So if we go to
00:14:19> 00:14:20:	Slide 5.
00:14:22> 00:14:25:	What you see here is just what is the performance
00:14:25> 00:14:29:	of moderate income apartments. So that's the that's bold on
00:14:29> 00:14:32:	the left and what you see on the horizontal scale
00:14:32> 00:14:35:	is just the total returns over the time frame that
00:14:36> 00:14:39:	we're able to capture the data and what the risk
00:14:39> 00:14:42:	is on the sorry total returns on the on the
00:14:42> 00:14:45:	vertical scale and risk on the horizontal scale. And it
00:14:45> 00:14:50:	was interesting moderate income produced a total returns
	that exceeded
00:14:50> 00:14:52:	what we'll call market.
00:14:52> 00:14:56:	Departments or the non Mer category, it outperformed you
	know

00:14:56> 00:15:01:	just about every asset class that's on this page with
00:15:01> 00:15:04:	the exception of small cap and large taps stocks as
00:15:05> 00:15:09:	well as industrial. So that was encouraging. Overall the the
00:15:09> 00:15:13:	total returns for that time period that we covered was
00:15:13> 00:15:18:	the close to 9.4% compared to the overall apartment index
00:15:18> 00:15:22:	that was about 100 basis points higher and then compared
00:15:22> 00:15:23:	to the non.
00:15:23> 00:15:27:	Summer category, those produced a total return about 7.9%. Each
00:15:27> 00:15:31:	of those had a little bit higher risk not significantly
00:15:31> 00:15:34:	so but nonetheless it it suggested that this is a
00:15:34> 00:15:38:	good category for investors consider and then we wanted to
00:15:38> 00:15:42:	also look at the how the performance was against other
00:15:42> 00:15:47:	property sectors within the ncreif index that institutional investors investors
00:15:47> 00:15:49:	and we can see that on the next slide.
00:15:50> 00:15:54:	Where we are looking at each of the individual property
00:15:54> 00:15:58:	sectors here and modern income rental housing again is over
00:15:58> 00:16:01:	on the left hand side showing that same return. And
00:16:01> 00:16:05:	then there was something interesting in that we found. So
00:16:05> 00:16:08:	out of the all those different cities that we were
00:16:08> 00:16:11:	able to narrow this down to, it turns out there
00:16:11> 00:16:14:	that there were three cities Chicago, LA and New York
00:16:14> 00:16:17:	that did not have any buildings within the nacre F
00:16:18> 00:16:20:	index that had a rent level that was below.
00:16:20> 00:16:25:	Our threshold, so clearly there are moderate income rental housing
00:16:25> 00:16:29:	units within those cities. It's just that they are not
00:16:29> 00:16:33:	being invested in by institutional investors that are members of
00:16:33> 00:16:37:	nacre if and that could the fact that there weren't
00:16:37> 00:16:40:	any MUR assets in that category could sort of bias
00:16:40> 00:16:44:	our results. So we pulled that performance out and you
00:16:44> 00:16:48:	see those large, the average performance of those large markets
00:16:48> 00:16:51:	was pretty low and it made the rest of the.
00:16:52> 00:16:54:	Apartments go up just a little bit, but notably it,
00:16:55> 00:16:58:	it still showed the same thing that moderate income rental
00:16:58> 00:17:01:	housing had higher returns and lower risk over the time
00:17:01> 00:17:02:	frame that we studied.
00:17:03> 00:17:06:	And then going to the next slide, uh, we are
00:17:06> 00:17:10:	looking here at what the correlations are. Obviously, correlations are

00:17:10> 00:17:15:	something that are very important to investors for diversification benefits.
00:17:15> 00:17:19:	When investors are building portfolios, they're looking at a few
00:17:19> 00:17:22:	items. They want to know does it have a good
00:17:22> 00:17:25:	total return relative to other asset classes and what is,
00:17:25> 00:17:28:	how is the risk. They also want to know if
00:17:28> 00:17:31:	the correlations are low so that they can create a
00:17:31> 00:17:34:	diversified portfolio. And here we compare.
00:17:34> 00:17:39:	Moderate income apartments and then our market rate apartments and
00:17:39> 00:17:42:	with the S&P 500 and the bond market and also
00:17:42> 00:17:46:	high yield and the correlations are are are pretty much
00:17:46> 00:17:49:	in the same range which which said to the US
00:17:49> 00:17:53:	that these can that this category can still provide the
00:17:53> 00:17:58:	same diversification benefits that just general market rate housing which
00:17:58> 00:18:03:	was a which meant that investors shouldn't necessarily overlook this
00:18:03> 00:18:04:	category.
00:18:04> 00:18:09:	Of buildings which can provide that moderate income affordability if
00:18:09> 00:18:13:	you will to tenants. And then we wanted to see
00:18:13> 00:18:16:	you know how is this skewed or how is this
00:18:16> 00:18:21:	look over different performance. And we went to the next
00:18:21> 00:18:24:	slide. So this shows it and breaks it down into
00:18:24> 00:18:28:	13510 year and our since yeah the 10 year. And
00:18:28> 00:18:32:	you know the blue bars show in each time frame
00:18:32> 00:18:34:	how the national murder.
00:18:34> 00:18:38:	Performed relative to non Mer category that's in the orange
00:18:39> 00:18:42:	bar that dark blue or brown bar on the right
00:18:42> 00:18:46:	that reflects the performance of those large apartment markets. So
00:18:47> 00:18:50:	we thought it would had add some bias to our
00:18:50> 00:18:53:	analysis. So we took that out. So we can just
00:18:53> 00:18:57:	compare those. The Group of cities that we had data
00:18:57> 00:19:01:	for that had were bucketed in both categories. So as
00:19:01> 00:19:04:	I mentioned earlier more outperformed that market.
00:19:04> 00:19:08:	Right department in every time period that we studied so
00:19:09> 00:19:13:	makes another good case for investors to consider this. And
00:19:13> 00:19:17:	then just looking at the vintage year. So those that
00:19:17> 00:19:21:	that's slide showed the performance periods but we also wanted
00:19:22> 00:19:25:	to look at the vintage year and get rid of

00:19:25> 00:19:28:	you know make sure we had more of a same
00:19:28> 00:19:32:	store analysis and it was striking in each case for
00:19:32> 00:19:35:	the 2005, 2010, 2015 in each instance those.
00:19:35> 00:19:40:	Those performance periods uh from our outperform the those buildings
00:19:40> 00:19:43:	that had a rent level which was above and in
00:19:43> 00:19:46:	some cases by a fairly in an even more significant
00:19:46> 00:19:50:	amount compared to the national indices. So again some empirical
00:19:50> 00:19:54:	evidence to to sort of support investing in this category
00:19:54> 00:19:55:	of assets.
00:19:57> 00:20:00:	Then we want to say, OK, are we getting this,
00:20:00> 00:20:03:	are we getting the same results at the city level.
00:20:03> 00:20:06:	So we decided to you know, look at the cities
00:20:06> 00:20:09:	that we had a robust longer term time series with
00:20:09> 00:20:12:	a minimum of 20 assets in them and we showed
00:20:12> 00:20:16:	the risk and return performance here as well. And again
00:20:16> 00:20:19:	it on the next slide, it shows that there isn't
00:20:19> 00:20:23:	any inconsistency. You know, look at the city like Phoenix
00:20:23> 00:20:27:	where the murder, what the Merc performance was almost.
00:20:27> 00:20:32:	Approaching 15% compared to 10% now I will say in
00:20:32> 00:20:34:	respect of Phoenix.
00:20:35> 00:20:38:	There may have been a little biased this was we
00:20:38> 00:20:42:	were about ohh nine months into COVID at this point
00:20:42> 00:20:46:	and so they're in already started to be some demand
00:20:46> 00:20:50:	for apartments there I think and and Phoenix was probably
00:20:50> 00:20:53:	the early one that that captured a lot of that
00:20:53> 00:20:56:	growth. But it was when we looked at the other
00:20:56> 00:21:00:	cities there really didn't seem to be a COVID effect
00:21:00> 00:21:03:	in that last year performance that we had in 2021.
00:21:03> 00:21:05:	So it it didn't seem like that.
00:21:05> 00:21:09:	Had a huge effect when you look over the whole
00:21:09> 00:21:12:	10 year. But nevertheless in each of the instances of
00:21:12> 00:21:17:	this, this category of apartments certainly outperformed the other ones.
00:21:17> 00:21:21:	But we wanted to ask some other questions and tease
00:21:21> 00:21:24:	out the data. So we also wanted to look at
00:21:24> 00:21:27:	the risk adjusted returns at the city level and we
00:21:27> 00:21:30:	have a table on that on the next slide. And
00:21:30> 00:21:35:	similar to the national analysis earlier, we wanted to look
00:21:35> 00:21:36:	at each vintage year.
00:21:36> 00:21:41:	Or each performance. SO135 and 10 year and since inception

00:21:41> 00:21:45:	and just about in every case of the the Merck
00:21:45> 00:21:50:	category was outperforming. So this didn't seem to be an
00:21:50> 00:21:53:	accident, you know, we tried to.
00:21:54> 00:21:59:	Control for different cities, you know, the national doesn't necessarily
00:21:59> 00:22:03:	control for cities because different cities can influence the national
00:22:03> 00:22:06:	index. So it was encouraging when we got here to
00:22:06> 00:22:09:	some of the city level indices that we're seeing some
00:22:09> 00:22:12:	of the same results and it generally most, you know
00:22:12> 00:22:15:	about half the time the standard deviation of returns
00:22:15> 00:22:19:	is lower than the market rate category and other times
00:22:19> 00:22:22:	it was above but not significantly so. And then for
00:22:22> 00:22:24:	investors we wanted to you know, there's this.
00:22:25> 00:22:29:	Statistical term of are they significantly different, so is the
00:22:29> 00:22:34:	murder category and its performance significantly different from the non
00:22:34> 00:22:37:	more. And for those statisticians out there on the next
00:22:37> 00:22:41:	slide, we went through that analysis and what this will
00:22:41> 00:22:44:	tell you just to to sort of summarize it quickly
00:22:45> 00:22:48:	that you know in most cases even though the nerve
00:22:48> 00:22:52:	returns were higher, they actually fall within a range that
00:22:52> 00:22:54:	institutional investors might expect.
00:22:55> 00:22:58:	Apartments. And on the one hand you might you know
00:22:58> 00:23:01:	when we, when Jake and I first looked at this,
00:23:01> 00:23:05:	we thought we thought they would be statistically different and
00:23:05> 00:23:08:	that would make the case. But realistically the fact that
00:23:08> 00:23:12:	they're not significantly different just means that they should be
00:23:12> 00:23:16:	considered as part of an investor's overall toolkit to to
00:23:16> 00:23:19:	maximize their return and risk. We also wanted to look
00:23:19> 00:23:23:	a little bit at some of the performance characteristics of
00:23:23> 00:23:26:	this what we did find looking at occupancy.
00:23:26> 00:23:29:	And the next slide was that in this case occupancy
00:23:29> 00:23:34:	rates were in, in statistical terms different and they were
00:23:34> 00:23:38:	lower in certain cases like Atlanta, Houston and Phoenix. So
00:23:38> 00:23:42:	they were a little bit lower but not meaningfully
00:23:42> 00:23:46:	much. But what it says is that perhaps these are,
00:23:46> 00:23:51:	you know, there's opportunities to maximize the occupancy in these
00:23:51> 00:23:55:	types of buildings to even grow the income a little
00:23:55> 00:23:56:	bit higher.

00:23:57> 00:24:00:	And then we also wanted to explore, OK, is there
00:24:00> 00:24:04:	is the CapEx more intensive on these types of properties.
00:24:04> 00:24:07:	And so we looked at the, I think that's the
00:24:07> 00:24:10:	next slide. If you turn to that, yeah, was the
00:24:11> 00:24:14:	CapEx statistically different and yes, it was, it was a
00:24:14> 00:24:19:	little bit different with the exception of a couple markets
00:24:19> 00:24:22:	like Dallas for example or the 2010 vintage year. But
00:24:22> 00:24:26:	generally speaking, you can look at some of these numbers
00:24:27> 00:24:27:	and.
00:24:27> 00:24:30:	This is just looking at the capital expenditure data in
00:24:30> 00:24:30:	nacre.
00:24:31> 00:24:31:	If.
00:24:31> 00:24:35:	Divided by the current market value to get that percentage
00:24:35> 00:24:38:	and then looking into that average overtime. So it does
00:24:38> 00:24:41:	say that the above mirror has lower CapEx. So this
00:24:41> 00:24:45:	this brought up the question of some additional research that
00:24:45> 00:24:48:	Jake and I may undertake which is really now digging
00:24:48> 00:24:51:	down into some of these individual buildings and you know
00:24:51> 00:24:54:	is there an age difference in these, is there a
00:24:54> 00:24:57:	locational difference in some of these.
00:24:57> 00:25:00:	Or you know what's causing that to go a little
00:25:00> 00:25:04:	bit higher, but you know Despite that slightly higher cap
00:25:04> 00:25:08:	acts, the total returns were still pretty strong and one
00:25:08> 00:25:11:	of the reasons maybe if we go to the next
00:25:11> 00:25:15:	slide is where the earnings yield statistically different. So in
00:25:15> 00:25:20:	each case generally speaking the earnings yields that's just looking
00:25:20> 00:25:23:	at the current income divided by the most recent market
00:25:23> 00:25:27:	value that we've got out of the NCREIF database and.
00:25:27> 00:25:31:	Again, from a statistical difference not significantly different. So they're
00:25:32> 00:25:35:	still in the same ballpark of what investors would expect.
00:25:35> 00:25:38:	But you can see just casually observing it that over
00:25:38> 00:25:42:	the time period study those were higher and those probably
00:25:42> 00:25:45:	contributed to some of the performance. So just to wrap
00:25:45> 00:25:47:	it up and I'm going to turn it over to
00:25:47> 00:25:51:	Jake, to Jake for some additional thoughts on this, the
00:25:51> 00:25:55:	conclusion was that we came to after exhaustive meticulous analysis
00:25:55> 00:25:57:	of looking at this obviously with the help of.
00:25:58> 00:26:02:	Fisher at Nate Reef that, you know, moderate income rental
00:26:02> 00:26:07:	housing seems to produce the performance characteristics that has earned

00:26:07> 00:26:12:	its role in many institutional investor portfolios. So with that,
00:26:12> 00:26:14:	Jake, let me turn it over to you.
00:26:15> 00:26:18:	Thanks mark. So you know just to step back a
00:26:18> 00:26:22:	little bit from from all this analysis you know I
00:26:22> 00:26:22:	think.
00:26:23> 00:26:26:	You know, what Mark is shown here is a, you
00:26:26> 00:26:30:	know, I think a fairly convincing portrait that over this.
00:26:30> 00:26:34:	At least that we analyze that, you know, mere performance
00:26:34> 00:26:38:	measured and you know different ways as you know generally,
00:26:38> 00:26:43:	let's call it commensurate with, you know, above moderate rental
00:26:43> 00:26:45:	income assets and in the data set.
00:26:46> 00:26:49:	And and that kind of brings us to what you
00:26:49> 00:26:52:	could view as a sort of a structural problem with
00:26:52> 00:26:55:	murder. If you wanted it to be part of let's
00:26:55> 00:26:59:	say a category of ESG investments, right, or you know,
00:26:59> 00:27:04:	environmentally, environmental, social governance focused investments that there's such a
00:27:05> 00:27:08:	demand for these days and that's that, you know, contrast
00:27:08> 00:27:12:	that with a wind farm, for example, you know, something
00:27:12> 00:27:15:	that would be firmly within the E category of ESG.
00:27:16> 00:27:19:	And in a wind farm, if it's earning a great
00:27:19> 00:27:22:	return, but it's being a wind farm and it's reducing
00:27:22> 00:27:25:	carbon emissions, everyone's happy, right?
00:27:26> 00:27:30:	But in this case, if you have Mer assets that
00:27:30> 00:27:32:	are earning great returns.
00:27:33> 00:27:37:	But also providing housing to people of moderate incomes, that
00:27:37> 00:27:40:	could be viewed in some quarters with suspicion, right? You
00:27:41> 00:27:44:	know, there could be a real inverse relationship between how
00:27:44> 00:27:47:	well the assets are doing from a financial point point
00:27:47> 00:27:50:	of view and then how useful they're perceived to be
00:27:50> 00:27:53:	out there in the world in terms of the affordability
00:27:54> 00:27:57:	benefits they're they're giving to to the tenancy weapon.
00:27:58> 00:28:00:	And so when we thought about what would be a
00:28:00> 00:28:04:	way to get around that, you know, possible perception problem,
00:28:04> 00:28:07:	it might be to create a standard. And you know
00:28:07> 00:28:09:	we just to be clear, we, we, we don't
00:28:09> 00:28:12:	have a standard that we are proposing here. But we
00:28:12> 00:28:15:	did think that we it would be useful to begin
00:28:15> 00:28:18:	a conversation about what a standard might look like that
	- -

00:28:18> 00:28:21:	if there were, I don't know if it would be
00:28:21> 00:28:24:	called certified murder or you know maybe some, you know,
00:28:24> 00:28:27:	better name for it that someone else could come up.
00:28:27> 00:28:28:	Come up with.
00:28:29> 00:28:33:	But if if that were widely known for a
00:28:33> 00:28:38:	given apartment development, let's say asset to be
	designated as
00:28:38> 00:28:45:	murder, then people, the general public, policymakers, local elected officials,
00:28:45> 00:28:50:	funders would know that it has that designation and and
00:28:50> 00:28:54:	that that that could help us proceed in that way.
00:28:56> 00:28:57:	So.
00:28:57> 00:29:01:	You know, just to give an example of what this
00:29:01> 00:29:04:	could look like, maybe to be a mere asset in
00:29:04> 00:29:08:	good standing, the rents that are in the apartments in
00:29:08> 00:29:12:	a given asset must average to, you know, rent for
00:29:12> 00:29:16:	80% or less of the median family income plus utility
00:29:16> 00:29:20:	costs and and in the manner that that Mark described
00:29:20> 00:29:24:	earlier or maybe another way that it could be done
00:29:24> 00:29:28:	would be perhaps every single apartment in the asset must
00:29:28> 00:29:28:	be.
00:29:29> 00:29:32:	Below a certain threshold, perhaps 100% of median income, there
00:29:32> 00:29:35:	there would be different ways that that this could
00:29:35> 00:29:38:	be done and you know maybe it would be adjusted
00:29:38> 00:29:41:	by household size, which you know we were not able
00:29:41> 00:29:44:	to do in our analysis here. So there are different
00:29:44> 00:29:46:	ways that it could be done.
00:29:48> 00:29:51:	But you know, however we're done, we think it would
00:29:51> 00:29:55:	have a lot of benefits and we were thinking about
00:29:55> 00:29:59:	some precedents, other successful efforts that have been arrived at
00:29:59> 00:30:00:	to.
00:30:00> 00:30:03:	To to create standards where you know a kind of
00:30:04> 00:30:08:	a product, an investment product could, could, could gain recognition
00:30:08> 00:30:11:	and just one what we thought of as a successful
00:30:11> 00:30:16:	precedent was the enterprise Green Community standard which you know
00:30:16> 00:30:17:	promotes green building.
00:30:19> 00:30:22:	And was arrived at through a collaboration of you know
00:30:22> 00:30:27:	relevant people in the industry and in green building
	advocates

00:30:27> 00:30:30:	and has gained a lot of traction as and is
00:30:30> 00:30:34:	widely recognized. And then another precedent which you
	know might
00:30:34> 00:30:38:	seem odd but but we thought the low income housing
00:30:38> 00:30:42:	tax credit of course now that's not a standard that's
00:30:42> 00:30:45:	a that's a provision in the tax code but when
00:30:45> 00:30:48:	people when when people talk about a tax credit.
00:30:49> 00:30:52:	Project they know what it is you know they know
00:30:52> 00:30:56:	that the rents of the apartments are limited to certain
00:30:56> 00:30:59:	levels and and they know that they're those units
00:30:59> 00:31:04:	are reserved for tenant tenants earning below certain income. So
00:31:04> 00:31:08:	that you know provides an example of of something that
00:31:08> 00:31:11:	could be done with murder but you know there would
00:31:11> 00:31:14:	be further up the the income scale to to to
00:31:14> 00:31:19:	to designate it as a recognized ESG investment product perhaps.
00:31:20> 00:31:23:	So you know how could this, how could this be,
00:31:23> 00:31:27:	let let's say that this merger standard were created and
00:31:27> 00:31:31:	came to be recognized, how could it be furthered? Well,
00:31:31> 00:31:34:	you know we think there are different ways that that
00:31:34> 00:31:38:	that could happen. You know there might be some markets
00:31:38> 00:31:42:	where just because of land use regulation and high land
00:31:42> 00:31:45:	prices and other factors it might not be possible to
00:31:45> 00:31:49:	create more assets in the absence of public subsidies so.
00:31:50> 00:31:54:	Murder would then just become another type of affordable housing
00:31:54> 00:31:57:	that's further up the investment scale to go along with
00:31:57> 00:32:01:	the ones that we already have where local governments
	could
00:32:01> 00:32:05:	do various things such as property tax breaks and other
00:32:05> 00:32:08:	things to to encourage them to be developed or including
00:32:08> 00:32:13:	a major component of a large redevelopment project, for example.
00:32:13> 00:32:16:	It could be part of the negotiations with a developer
00:32:16> 00:32:20:	during the entitlement process. And I just want to point
00:32:20> 00:32:20:	out.
00:32:20> 00:32:23:	You know we do have a rich history in this
00:32:23> 00:32:27:	country of of large scale middle income developments. You know
00:32:27> 00:32:30:	we have the Mitchell Lama program in New York State
00:32:30> 00:32:34:	that that created so much housing and you know we
00:32:34> 00:32:38:	have well known large scale middle income developments in other

00:32:38> 00:32:41:	cities that were you know built a long time ago
00:32:41> 00:32:44:	at this point, Park La Brea and Los Angeles, Carl
00:32:44> 00:32:48:	Sandburg Village in Chicago, Lafayette Park in Detroit just as
00:32:48> 00:32:50:	as some examples among many and.
00:32:50> 00:32:55:	Perhaps a merge designation could, you know, help spark a
00:32:55> 00:33:00:	a revival in this sort of middle income development.
00:33:01> 00:33:03:	So I guess just you know where I want to
00:33:03> 00:33:06:	leave us and and you know before we you know
00:33:07> 00:33:10:	head into the into fielding some questions here.
00:33:10> 00:33:13:	You know arguably if you look at it the E
00:33:13> 00:33:16:	and the SG in some ways is easier to do
00:33:16> 00:33:21:	right somebody environmental benefits are easy to quantify right, the
00:33:21> 00:33:24:	pounds of carbon dioxide that have been avoided or the
00:33:24> 00:33:28:	percentage in drop in water consumption and you know in
00:33:28> 00:33:30:	a given technology.
00:33:30> 00:33:33:	The S can be a little trickier, right? It's S
00:33:33> 00:33:37:	is social. S involves human beings, and human beings are
00:33:37> 00:33:38:	complicated.
00:33:38> 00:33:41:	But you know, we do think that with this idea
00:33:41> 00:33:44:	of merger that there is the potential to offer an
00:33:44> 00:33:49:	investment product where the social performance, where the below market
00:33:49> 00:33:53:	rents are quantifiable. And I shouldn't have said below market,
00:33:53> 00:33:57:	I should have said middle income rents are quantifiable. And
00:33:57> 00:34:00:	so we think that there's an opportunity there. So we
00:34:00> 00:34:03:	think that there would be a lot of benefits to
00:34:03> 00:34:07:	you know, promoting this as an investment class that you
00:34:07> 00:34:09:	know, for which there be a lot of interest.
00:34:10> 00:34:13:	So with that, umm, well, I want to reiterate our
00:34:13> 00:34:17:	thanks to Wells Fargo and Affordable Central TX for their
00:34:17> 00:34:21:	sponsorship of the research. And I want to really thank
00:34:21> 00:34:25:	as well you alive for the opportunity to present today
00:34:25> 00:34:28:	and to you know Jane Mohammed and and Rosie for
00:34:28> 00:34:32:	for helping organize this event. So we'll now take some
00:34:32> 00:34:33:	questions.
00:34:35> 00:34:40:	So we've received some questions from folks through the Q&A.
00:34:41> 00:34:45:	Please add some more and we can, you know, bring
00:34:45> 00:34:48:	those out to you folks on the panelists.
00:34:50> 00:34:53:	Couple things that have jumped out when.
00:34:54> 00:34:57:	One is just a, you know, a definition, you know,

00:34:57> 00:35:01:	is there any difference between moderate income retail housing and
00:35:01> 00:35:05:	naturally occurring affordable housing or is 1 subset of the
00:35:05> 00:35:05:	other.
00:35:09> 00:35:11:	Bart, did you want to take that one or should
00:35:11> 00:35:12:	I take a take?
00:35:12> 00:35:13:	You want to take a stab at it.
00:35:13> 00:35:17:	Take a stab at it. I mean, my sense is
00:35:17> 00:35:21:	that the term Noah is very often applied to.
00:35:22> 00:35:25:	You know, quite old housing, you know, housing that has
00:35:25> 00:35:29:	become affordable simply because you know, it's been around a
00:35:29> 00:35:32:	long time and you know may or may not be
00:35:32> 00:35:35:	well maintained. And I also think that it has a
00:35:35> 00:35:39:	connotation, you know, maybe not a one for one connotation,
00:35:39> 00:35:43:	but it's often thought of as smaller scale rental housing
00:35:43> 00:35:46:	developments that might be too small to be of interest
00:35:46> 00:35:50:	to, you know, institutional investors. And so with murder we're
00:35:50> 00:35:52:	thinking of something that.
00:35:52> 00:35:55:	Could you know AB kind of of that scale to
00:35:55> 00:35:59:	be of interest to institutional investors, but also B could
00:35:59> 00:36:02:	be you know murder right out from right out of
00:36:02> 00:36:05:	the gate. You know at the time that it's developed,
00:36:05> 00:36:08:	you know from from day one as opposed to
00:36:08> 00:36:10:	let's say a 10 or 15 or 20 year old
00:36:10> 00:36:13:	asset. But I don't know would you add anything to
00:36:13> 00:36:13:	that?
00:36:15> 00:36:18:	Would I, our focus here has really been much more
00:36:18> 00:36:21:	on the income than on the building or the quality
00:36:21> 00:36:24:	of the building. And so maybe that's the key difference
00:36:24> 00:36:27:	here in terms of the terminology and what it can
00:36:27> 00:36:30:	mean. So they don't want to speak for Jake, but
00:36:30> 00:36:32:	I think our thought was if we can clean up
00:36:32> 00:36:36:	some of the terminology that starts getting this underway on
00:36:36> 00:36:39:	a path toward and getting everybody on board to say,
00:36:39> 00:36:42:	OK, we're focused on tenants, we're focused on their income.
00:36:42> 00:36:45:	So how do we address that given the variety of.
00:36:45> 00:36:46:	Real estate.
00:36:47> 00:36:51:	Areas out there, low rise, high-rise, infill, you know all
00:36:51> 00:36:55:	these. So the terms themselves like no, it don't necessarily
00:36:55> 00:36:58:	solve the affordable housing and it's the sort of the
00:36:58> 00:37:01:	focus. So I think that's a little bit more of

00:37:01> 00:37:05:	what we emphasized on something like that. And one other
00:37:05> 00:37:07:	point that I don't, I'm not sure that Jack I
00:37:07> 00:37:10:	made was that in the terms of the buildings that
00:37:10> 00:37:15:	we analyzed, these were properties that presumably are not receiving
00:37:15> 00:37:17:	any tax credits or anything, so not we are.
00:37:17> 00:37:22:	These are institutionally owned freehold properties. So we we don't
00:37:22> 00:37:25:	think that there are any subsidies that were that were
00:37:25> 00:37:28:	on that. So it goes to show that the market
00:37:28> 00:37:31:	can address this type of housing and the areas of
00:37:31> 00:37:36:	support that might be needed for developers wouldn't necessarily be
00:37:36> 00:37:39:	in some cases that yes it may be property taxes
00:37:39> 00:37:42:	and things of that nature, but just just the ability
00:37:42> 00:37:45:	to get things built in a in a faster amount
00:37:45> 00:37:48:	of time with a blue approvals and things of that
00:37:48> 00:37:49:	nature.
00:37:49> 00:37:52:	They sort of shrinking down that window a little bit
00:37:52> 00:37:54:	can be a non cost way of helping to bring
00:37:54> 00:37:58:	these things to market, particularly when the Federal Reserve is
00:37:58> 00:38:02:	raised the interest rates so much and and raised financing
00:38:02> 00:38:04:	cost for projects such as these.
00:38:06> 00:38:10:	So we've got a couple of questions. I think you
00:38:10> 00:38:13:	know we revolve around the fact that you used naked
00:38:13> 00:38:17:	reef data and you know it maybe you addressed it
00:38:17> 00:38:20:	a little bit maybe you can just touch again Mark
00:38:20> 00:38:23:	you know why was Nate brief data so good for
00:38:23> 00:38:26:	for doing this and you know you you also answered
00:38:27> 00:38:31:	a couple of questions regarding you know other subsidies but
00:38:31> 00:38:34:	can you just kind of talk through once again how
00:38:34> 00:38:37:	we what were the benefits of using they creep?
00:38:37> 00:38:41:	And how did you pick those few cities as being
00:38:41> 00:38:44:	representative of of that data set?
00:38:45> 00:38:48:	It was the only data set that we really could
00:38:48> 00:38:52:	find. There may be one out there, but we weren't
00:38:52> 00:38:55:	able to find it. That was simply focused on, if
00:38:55> 00:39:00:	you will, buildings that provided shelter for those earning, you
00:39:00> 00:39:03:	know, 60 to 120% of MI or MI. And we
	know, 60 to 120% of MI or MI. And we couldn't really find one that we heard about little things.
00:39:00> 00:39:03:	

00:39:15> 00:39:19:	So when pension funds and institutional investors are trying to
00:39:19> 00:39:22:	figure out how much they allocate to real estate in
00:39:22> 00:39:25:	general and then how much to each property sectors, they
00:39:25> 00:39:29:	tend to look at long-term return series to help them
00:39:29> 00:39:32:	understand the return and risk and risk of adherers defined
00:39:32> 00:39:36:	by standard deviation. So on average, you know 66% of
00:39:36> 00:39:37:	the time, 67% of the time.
00:39:38> 00:39:42:	Insurance will be within a certain range. So lower standard
00:39:42> 00:39:47:	deviation of returns is typically better than higher standard
	deviation
00:39:47> 00:39:50:	of returns. So Nate Creef had that type of data
00:39:50> 00:39:53:	going back to 78 but that index has grown a
00:39:53> 00:39:56:	lot. So if we went back to 2000 and you
00:39:56> 00:39:59:	know at that time the the size of the index
00:39:59> 00:40:03:	was maybe 400 billion or 300 billion, today it's closer
00:40:03> 00:40:06:	to a trillion. So that and that just goes to
00:40:06> 00:40:09:	show how institutional investors.
00:40:09> 00:40:12:	Have been investing so much and direct real estate over
00:40:12> 00:40:15:	the last 20 years and continue to do so. And
00:40:15> 00:40:17:	so we were able to get to those. And then
00:40:17> 00:40:21:	just from a statistical standpoint we wanted to make sure
00:40:21> 00:40:24:	we had we weren't getting sort of asset specific issues
00:40:24> 00:40:27:	really looking more at market and nation. And so for
00:40:28> 00:40:31:	that reason we needed a minimum sample size of 10
00:40:31> 00:40:34:	buildings in each of those categories and so that that
00:40:34> 00:40:37:	caused us to filter down some of those. So there
00:40:37> 00:40:39:	are some cities New York, Dallas.
00:40:39> 00:40:42:	Houston, there are 80 some odd or you know saying
00:40:42> 00:40:46:	about 50 buildings going back to 2000 and then there's
00:40:46> 00:40:49:	some like San Francisco or Boston believe it or not,
00:40:49> 00:40:52:	they only have 8 buildings in them as of 2000
00:40:52> 00:40:55:	now they've grown quite a bit since then as more
00:40:55> 00:40:59:	investors have put capital in those markets, but they didn't
00:40:59> 00:41:02:	have that many assets going back to the early 2000s.
00:41:02> 00:41:05:	So that was all part of the the filtering and
00:41:05> 00:41:08:	it makes it makes for some good reading in that
00:41:08> 00:41:09:	paper if you.
00:41:09> 00:41:11:	Want to click on that link and get a copy
00:41:11> 00:41:12:	of that paper?
00:41:12> 00:41:17:	There's been a variety of questions regarding, you know, how
00:41:17> 00:41:21:	do you expand this study to include smaller properties or

00:41:21> 00:41:22:	more cities?
00:41:24> 00:41:26:	Whether you have any ideas on how you could do
00:41:26> 00:41:26:	that?
00:41:27> 00:41:30:	You know, unless we're missing something, I think it would
00:41:30> 00:41:32:	be difficult to do that at a nationwide scale. But
00:41:32> 00:41:35:	I do think it would be possible within certain, you
00:41:35> 00:41:38:	know, particular markets that people have an interest in. If
00:41:38> 00:41:41:	there are data, you know, sets that exist there, then
00:41:41> 00:41:43:	it, you know, might be possible to do more of
00:41:43> 00:41:46:	a deep dive in particular places. What do you think?
00:41:46> 00:41:47:	Mark.
00:41:47> 00:41:50:	Yeah, and it's it's important to to look at the
00:41:50> 00:41:53:	data you are collecting and that's another thing with the.
00:41:54> 00:41:58:	These are buildings that are valued every quarter typically by
00:41:58> 00:42:02:	an external appraiser. So there's some objectivity in what goes
00:42:02> 00:42:06:	on in terms of those valuations. And you know you
00:42:06> 00:42:10:	need the ending market value and the beginning market value
00:42:10> 00:42:13:	plus the income to compute the total return. So if
00:42:13> 00:42:17:	there are consortiums at a local level where those groups
00:42:17> 00:42:20:	that are maybe operating in this type of housing and
00:42:20> 00:42:24:	our marketing those to market every quarter, yeah.
00:42:24> 00:42:27:	They can. They can come together to create those local
00:42:28> 00:42:31:	indices or they can also become members at the same
00:42:31> 00:42:34:	time of ncreif and we can expand the the data
00:42:34> 00:42:35:	set there.
00:42:35> 00:42:38:	Or last thing I'll say is I don't know any
00:42:38> 00:42:42:	big institutional investors are out there listening and you know
00:42:42> 00:42:44:	would love to turn over a data set for some
00:42:45> 00:42:47:	academic research. That would be wonderful.
00:42:47> 00:42:51:	And another kind of set of questions are you know
00:42:51> 00:42:55:	around the the whole you know definition of this as
00:42:55> 00:42:58:	an asset class and and and you know it's kind
00:42:58> 00:43:01:	of an expansion of affordability.
00:43:02> 00:43:05:	Any ideas on on on?
00:43:06> 00:43:10:	You know where Merck could be used, you know I
00:43:10> 00:43:13:	think you had mentioned like tax credit deals and all
00:43:14> 00:43:17:	and you know any other thoughts as to how how
00:43:17> 00:43:20:	it could be applied and and to be provide a
00:43:20> 00:43:22:	broader range of affordability?
00:43:24> 00:43:27:	I imagine, you know, I guess where my this maybe

00:43:27> 00:43:30:	just reflects kind of what I think about most and
00:43:30> 00:43:33:	in my research, but my mind goes to some sort
00:43:33> 00:43:36:	of a negotiation between a local government and.
00:43:37> 00:43:40:	You know a developer and the developer is seeking some
00:43:40> 00:43:44:	sort of you know entitlements for a given site that
00:43:44> 00:43:47:	they want to develop on. And you know right now
00:43:47> 00:43:51:	they will negotiate over the usual things and including X
00:43:51> 00:43:55:	number of below market units and and including open space
00:43:55> 00:43:57:	and and other amenities and so forth.
00:43:58> 00:44:01:	And if Murr existed, you know I I could imagine
00:44:01> 00:44:05:	that just being another deal point or you know another
00:44:05> 00:44:09:	area of negotiation where you know a city might say
00:44:09> 00:44:13:	well look we can't put enough subsidies into this project
00:44:13> 00:44:16:	to induce you to to build units that are you
00:44:16> 00:44:20:	know running for 50% of median income tenants. But you
00:44:20> 00:44:24:	know if we gave you this relief on the entitlements
00:44:24> 00:44:28:	or we expedited your permit processing as as mark.
00:44:28> 00:44:32:	Mentioned earlier you know with that would you then commit
00:44:32> 00:44:35:	you know to including a certain number of of of
00:44:35> 00:44:38:	Mer units on your site. So that's just that's one
00:44:38> 00:44:40:	way I could imagine this this going.
00:44:42> 00:44:44:	And and I would just add you know looking at
00:44:44> 00:44:48:	the going back to the research Dallas, Phoenix, Atlanta, Houston,
00:44:48> 00:44:51:	all these cities Seattle they all have the we were
00:44:51> 00:44:55:	able to identify with the ncreif that they're buildings that
00:44:55> 00:44:58:	are in there already that are that have a rent.
00:44:58> 00:45:01:	Level that's below what somebody earning 80% of MF I
00:45:02> 00:45:05:	can afford. So they do exist today and it's it's
00:45:05> 00:45:09:	it's coalescing maybe around an understanding that they do exist
00:45:09> 00:45:12:	and and how are they existing and yes some additional
00:45:12> 00:45:16:	research into their age and quality and location and things
00:45:16> 00:45:19:	of that nature. I would say that you know what,
00:45:19> 00:45:23:	what is interesting is all this the research that we're
00:45:23> 00:45:26:	doing is starting to focus more on the tenant and
00:45:26> 00:45:28:	focus more on their income.
00:45:28> 00:45:31:	And one thing we can learn is maybe from the
00:45:31> 00:45:34:	low income housing tax credit world how because of those
00:45:34> 00:45:37:	tax credits in place there is a discipline process that
00:45:37> 00:45:40:	they have to go through to collecting that rent or
00:45:40> 00:45:44:	that income data to you know understand are they, are

00:45:44> 00:45:47:	they still within that category or something. And you know
00:45:47> 00:45:50:	and frankly we're not suggesting that we want to hold
00:45:50> 00:45:53:	back people from making more money, they should try and
00:45:54> 00:45:56:	do it, but we are saying is if we're going
00:45:56> 00:45:58:	to create that standard can we also.
00:45:58> 00:46:01:	Look at some data collection which you know, which you
00:46:01> 00:46:04:	know basically at the end of the day helps that
00:46:04> 00:46:07:	landlord get to know their tenant better and and do
00:46:07> 00:46:09:	it in a way that isn't, you know, hurting privacy
00:46:10> 00:46:11:	issues or anything of that nature.
00:46:12> 00:46:14:	I mean just by way of example, you know the
00:46:15> 00:46:19:	the Austin Housing Conservancy Fund is focused in Austin. We
00:46:19> 00:46:21:	were providing this moderate.
00:46:22> 00:46:26:	Income level of housing or in our focus is on
00:46:26> 00:46:30:	folks earning between 60 and 80%, but we also create
00:46:30> 00:46:35:	mixed income communities where we have a market component as
00:46:35> 00:46:39:	well. And that's basically it allows us then to provide
00:46:39> 00:46:44:	returns to our investors that that they are tracking with,
00:46:44> 00:46:48:	with the returns that you found. But also one of
00:46:48> 00:46:52:	the things that that are involved is that they were
00:46:52> 00:46:53:	buying.
00:46:53> 00:46:58:	Existing properties and preserving them as affordable by putting you
00:46:58> 00:47:02:	know income restrictions in place and and and and
00:47:02> 00:47:05:	by partnering with you know various.
00:47:07> 00:47:12:	Your housing agencies and all we, you know, built into
00:47:12> 00:47:18:	the legal structure of ownership that the long-term affordability remains.
00:47:18> 00:47:22:	And you know, I think you know, you defining an
00:47:23> 00:47:28:	asset class would actually help a lot, you know, because.
00:47:29> 00:47:32:	It would be great to have some kind of benchmarking
00:47:32> 00:47:35:	to see how are we doing relative to, you know,
00:47:35> 00:47:38:	other organizations, other cities, other states.
00:47:39> 00:47:43:	You're not only on the investment side but also you
00:47:43> 00:47:45:	know, you know is there a way to kind of
00:47:46> 00:47:50:	track the outcomes and the benefits of providing this housing
00:47:50> 00:47:52:	and I know a lot, you know you got gets
00:47:52> 00:47:55:	to the US of the SG and frankly that's very
00:47:55> 00:47:58:	difficult. I mean I could see your role in for
00:47:58> 00:48:01:	for UI and for others to say you know, I
00:48:01> 00:48:04:	mean everybody kind of knows right that that if you

00:48:04> 00:48:08:	have stable housing and kids aren't being forced to move
00:48:08> 00:48:10:	from school to school.
00:48:10> 00:48:14:	School that their educational outcome is better. Same thing for
00:48:14> 00:48:18:	health outcomes. If you've got stable housing and it's clean
00:48:18> 00:48:22:	and it's and it's, you know, a healthy environment, the
00:48:22> 00:48:25:	health outcome should improve. But I don't know how to
00:48:25> 00:48:29:	how to measure that. And you know, I think there's
00:48:29> 00:48:32:	you know you know in addition to the returns there's
00:48:32> 00:48:36:	also this social impact that would be great to be
00:48:36> 00:48:39:	able to measure and report on as well. And and
00:48:39> 00:48:40:	I don't, I don't.
00:48:40> 00:48:44:	Nate Reef measuring things on on on any SG level
00:48:44> 00:48:47:	yet but maybe there's a way that you know an
00:48:48> 00:48:52:	acre if can you know tap into the trillion dollars
00:48:52> 00:48:55:	to get those kind of measures as well.
00:48:55> 00:48:58:	And there are, there are many groups doing trying to
00:48:58> 00:49:01:	do that grisby and others and there are some committees
00:49:01> 00:49:04:	that whether it's Priya or UI or an acre if
00:49:04> 00:49:06:	that we're all working on that and I I might
00:49:06> 00:49:09:	step back from some of those things and as it
00:49:09> 00:49:10:	relates to moderate.
00:49:10> 00:49:14:	Become rental housing, I mentioned the tenant side earlier, but
00:49:14> 00:49:18:	some of the soft costs or the frictions that can
00:49:18> 00:49:21:	slow the process or make it difficult to bring this
00:49:21> 00:49:24:	type of housing on is just also some of the
00:49:24> 00:49:27:	government data. I mean it is and so we you
00:49:27> 00:49:31:	know creating a partnership with HUD to make it easier
00:49:31> 00:49:34:	to look at that data. They they do a great
00:49:34> 00:49:37:	job of putting out median family income on a year
00:49:37> 00:49:40:	by year basis but for the type of analysis that.
00:49:40> 00:49:44:	Developers and others might do and investors, they want to
00:49:44> 00:49:47:	look at a time series. So just simply, you know,
00:49:47> 00:49:50:	organizing the information that they already had in a way
00:49:50> 00:49:54:	that's accessible could help people look at it. The other
00:49:54> 00:49:56:	thing I would say is that, you know, go to
00:49:56> 00:49:59:	some of these cities and try and figure out what
00:49:59> 00:50:03:	median family income is and what is the average household
00:50:03> 00:50:05:	size. And it's not an easy thing to do some.
00:50:06> 00:50:09:	Some cities will have a very granular almost zip code
00:50:09> 00:50:10:	approach to it then others.
00:50:10> 00:50:14:	Will be larger in terms of what they're what that

00:50:14> 00:50:18:	footprint is and that makes it very difficult when a
00:50:18> 00:50:21:	developer or an operator has to go in and they're
00:50:21> 00:50:25:	now they're zeroing in on land cost and construction costs
00:50:25> 00:50:28:	and what it means and in certain areas. So just
00:50:28> 00:50:32:	just simplifying the access to that information is can help
00:50:33> 00:50:36:	reduce the soft cost of the of the market
00:50:36> 00:50:38:	bringing some of these to to market.
00:50:38> 00:50:41:	One final question, you know.
00:50:42> 00:50:45:	What do you think the impact of the current interest
00:50:45> 00:50:50:	rate environment and you know continued inflation of
	construction costs
00:50:50> 00:50:53:	and all would be having on, on these returns and
00:50:53> 00:50:56:	is it any different for Merv versus any of the
00:50:57> 00:50:58:	other asset classes?
00:50:59> 00:51:02:	So the general question on interest rates and impact on
00:51:02> 00:51:04:	real estate total returns?
00:51:04> 00:51:07:	Yeah, but by looking at murder and as a subset
00:51:07> 00:51:08:	of that.
00:51:08> 00:51:12:	Well, it's this is my opinion and not necessarily that
00:51:12> 00:51:16:	of my affiliations here, but I would say that look
00:51:16> 00:51:20:	it's simple mortgage rates went up and it it increased
00:51:21> 00:51:25:	the cost of a single family housing relative to multifamily
00:51:25> 00:51:28:	housing by 50%. So in other words.
00:51:29> 00:51:32:	Being a family housing now costs 50% more than rental
00:51:32> 00:51:35:	housing. And what that did at least in the early
00:51:35> 00:51:39:	stages of last year when the federal was raising interest
00:51:39> 00:51:43:	rates, it really increased the occupancy rates on apartments. And
00:51:43> 00:51:45:	so the year on year rent growth as of the
00:51:45> 00:51:48:	end of the fourth quarter had been like 10 to
00:51:48> 00:51:52:	12%. That started to decelerate in the second-half of last
00:51:52> 00:51:55:	year, but at the same time those financing costs.
00:51:57> 00:52:00:	In the higher construction cost meant that it the numbers
00:52:00> 00:52:04:	weren't necessarily penciling out in development. So we're
00:52:04> 00:52:07:	going to see this wave of projects that had been started in
00:52:07> 00:52:10: 00:52:10> 00:52:13:	the last two years come online over the next 12
	months that will help in terms of the inflation front
00:52:13> 00:52:16:	and you know softening those rents a little bit. But
00:52:16> 00:52:19:	even still we're looking at if you look at if
00:52:19> 00:52:22:	you go to the Fred database and you the Saint
00:52:22> 00:52:25:	Louis Fred database and just put in their rental vacancy

00:52:25> 00:52:27:	rates, they'll show you that.
00:52:27> 00:52:31:	That those are for single family and multifamily properties
00 50 04 > 00 50 04	we're
00:52:31> 00:52:34:	we're lows that we haven't seen since the 1980s. So
00:52:34> 00:52:37:	in some ways the higher interest rates are making it
00:52:38> 00:52:41:	more difficult on the supply side and and perhaps only
00:52:41> 00:52:45:	exacerbating the issue and as a result apartments have done
00:52:45> 00:52:48:	pretty well. Those interest rates have gone up and that's
00:52:48> 00:52:53:	been recognized by institutional investors where the values have probably
00:52:53> 00:52:56:	come down about 4%, but that value shift has been
00:52:56> 00:52:57:	offset by the rent.
00:52:58> 00:53:00:	That has occurred over the last couple of years.
00:53:01> 00:53:05:	So it's it's it's still pretty good market for investing
00:53:05> 00:53:08:	in apartments, but it's it's tough to build right now
00:53:08> 00:53:10:	with the high financing cost.
00:53:10> 00:53:11:	Any thoughts on your side, Jake?
00:53:11> 00:53:14:	Mark just said everything that I would have said, but
00:53:14> 00:53:15:	he said it in a more informed and.
00:53:16> 00:53:17:	Yeah.
00:53:18> 00:53:21:	I think we got some time for this. Any final
00:53:21> 00:53:25:	thoughts? You know, given the research and and and
00:53:25> 00:53:28:	the audience that we have, you know, Jake, maybe I'll
00:53:28> 00:53:31:	kick it off with you and then followed by Mark
00:53:31> 00:53:33:	and then I can wrap up.
00:53:33> 00:53:36:	Well, I guess one thing that we didn't state directly
00:53:36> 00:53:39:	is that if, you know, if we had better land
00:53:39> 00:53:42:	use policy all across the United States than you know,
00:53:42> 00:53:46:	the market would be producing murder housing everywhere. And I
00:53:46> 00:53:49:	think that's still something that we should strive for.
00:53:50> 00:53:53:	But the reality is that a lot of not everywhere
00:53:53> 00:53:56:	but you know number of metros in the US you
00:53:56> 00:53:59:	just you can't build new housing that's going to reach
00:54:00> 00:54:03:	people renting in in, in that murder part of the
00:54:03> 00:54:06:	spectrum. And so I think as long as that's true,
00:54:06> 00:54:09:	I think we need to be creative and think of
00:54:09> 00:54:13:	new policy mechanisms that you know that that we've talked
00:54:13> 00:54:16:	about that that could bring some of this more this
00:54:17> 00:54:18:	mirror housing to market.
00:54:19> 00:54:20:	And I would.
00:54:20> 00:54:23:	Those are great points and I would just I would
00:54:23> 00:54:26:	just add that this is the start of some research,

00:54:26> 00:54:29:	not the end of the research for the industry per
00:54:29> 00:54:32:	se. And it can touch on other things that we've
00:54:32> 00:54:36:	mentioned here today such as age and quality and location
00:54:36> 00:54:39:	and looking more at the individual buildings. It's about how
00:54:40> 00:54:43:	it's the nomenclature used to help solve the issue and
00:54:43> 00:54:46:	get agreement just on sort of the nomenclature and then
00:54:47> 00:54:50:	it's also making the information transparent so that.
00:54:51> 00:54:54:	So the industry can come together and help solve the
00:54:54> 00:54:59:	affordability and I think we we create less friction if
00:54:59> 00:55:01:	we can do it in the context of sort of
00:55:02> 00:55:05:	immersed standard if you will, there will be a little
00:55:06> 00:55:11:	bit more operating flexibility for investors and landlords who
	would
00:55:11> 00:55:15:	tackle that segment of the marketplace. And but to do
00:55:15> 00:55:18:	that we need to reduce some of those soft costs,
00:55:18> 00:55:19:	the ability to.
00:55:20> 00:55:24:	Have an efficient approval process being able to act. You
00:55:24> 00:55:28:	know, working with various government agencies like HUD
	and trying
00:55:28> 00:55:32:	to give them constructive support in terms of how developers
00:55:32> 00:55:35:	or investors might want to look at that data and
00:55:35> 00:55:38:	analyze it to help them better identify how they can
00:55:38> 00:55:40:	tackle the SNES G so. And I too like I
00:55:40> 00:55:44:	just want to thank my support. We couldn't have done
00:55:44> 00:55:47:	it without David and the team at affordable Central Texas
00:55:47> 00:55:50:	and then the Wells Fargo Foundation team so.
00:55:50> 00:55:53:	Uh, it was, it was. We're very fortunate to have
00:55:53> 00:55:56:	participated in this. So thank you to those groups and
00:55:56> 00:55:57:	and to ULI as well.
00:55:58> 00:56:02:	Yeah, maybe this final thought from from our perspective you
00:56:02> 00:56:06:	know we we're addressing this issue in Austin, you know,
00:56:06> 00:56:10:	using an open end, you know institutional private equity fund
00:56:11> 00:56:11:	structure.
00:56:13> 00:56:16:	You know this type of thing, we think we can
00:56:16> 00:56:20:	expand to other major markets in Texas, but you know
00:56:20> 00:56:23:	your real estate is still local. And I think you
00:56:23> 00:56:26:	know a lot of the solutions need to be to
00:56:26> 00:56:30:	design to meet needs on a local market basis. And
00:56:30> 00:56:34:	you know I think it's incredibly valuable that the work
00:56:34> 00:56:37:	that Mark and Jake did to take a look at
00:56:37> 00:56:40:	this on on a national basis and actually prove out
00:56:40> 00:56:43:	the concept that this can work.

00.56.44 > 00.56.47.	Vou know as as an investment class but I think
00:56:44> 00:56:47:	You know as as an investment class but I think
00:56:47> 00:56:51:	there's there's a tremendous amount of opportunity to to fine
00:56:51> 00:56:55:	tune what you know this individual solutions could be and
00:56:55> 00:56:59:	in various markets in various states. So you know thank
00:56:59> 00:57:02:	you again to to to Mark and Jake for all
00:57:02> 00:57:06:	the work they did. Thank you to Wells Fargo Foundation
00:57:06> 00:57:09:	for for funding this and finally thank you to ULI
00:57:09> 00:57:13:	for allowing us to to share this information today.
00:57:13> 00:57:15:	Jane, I'll turn it back to you.
00:57:15> 00:57:19:	Great. Thank you so much. We're adjusted about time.
	Thank
00:57:19> 00:57:22:	you to our audience for tuning in and for your
00:57:22> 00:57:26:	questions today. Huge thank you to David and Mark and
00:57:26> 00:57:30:	Jake for your time and presenting your research. Very
	interesting.
00:57:30> 00:57:34:	I will be following up with an e-mail to registrants
00:57:34> 00:57:37:	with a link to the recording of this webinar when
00:57:37> 00:57:41:	it's available on knowledge Finder and that will also include
00:57:42> 00:57:44:	the slides that were presented.
00:57:44> 00:57:46:	As well as a link to the report that was
00:57:46> 00:57:46:	discussed.
00:57:47> 00:57:49:	Thank you all. Have a good afternoon.

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