

## 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 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
	over the years, Nate Creef is the National Council of
00:07:10> 00:07:14:	over the years, nate creer is the national council of
00:07:10> 00:07:14: 00:07:14> 00:07:18:	Real Estate investment fiduciary. I wasn't Jake and I weren't
	-
00:07:14> 00:07:18:	Real Estate investment fiduciary. I wasn't Jake and I weren't
00:07:14> 00:07:18: 00:07:18> 00:07:21:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this
00:07:14> 00:07:18: 00:07:18> 00:07:21: 00:07:22> 00:07:25:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this category of housing and evaluated the the returns and.
00:07:14> 00:07:18: 00:07:18> 00:07:21: 00:07:22> 00:07:25: 00:07:25> 00:07:29:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this category of housing and evaluated the the returns and. Risk and the correlation. So those are things that are
00:07:14> 00:07:18: 00:07:18> 00:07:21: 00:07:22> 00:07:25: 00:07:25> 00:07:29: 00:07:29> 00:07:33:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this category of housing and evaluated the the returns and. Risk and the correlation. So those are things that are very important to institutional investors. So we had to go
00:07:14> 00:07:18: 00:07:18> 00:07:21: 00:07:22> 00:07:25: 00:07:25> 00:07:29: 00:07:29> 00:07:33: 00:07:33> 00:07:36:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this category of housing and evaluated the the returns and. Risk and the correlation. So those are things that are very important to institutional investors. So we had to go ahead and develop an index of our own.
00:07:14> 00:07:18: 00:07:18> 00:07:21: 00:07:22> 00:07:25: 00:07:25> 00:07:29: 00:07:29> 00:07:33: 00:07:33> 00:07:36: 00:07:37> 00:07:41:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this category of housing and evaluated the the returns and. Risk and the correlation. So those are things that are very important to institutional investors. So we had to go ahead and develop an index of our own. And the question that the the team at Wells Fargo Foundation and Affordable Central Texas put to us was
00:07:14> 00:07:18: 00:07:18> 00:07:21: 00:07:22> 00:07:25: 00:07:25> 00:07:29: 00:07:29> 00:07:33: 00:07:33> 00:07:36: 00:07:37> 00:07:41: 00:07:41> 00:07:46:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this category of housing and evaluated the the returns and. Risk and the correlation. So those are things that are very important to institutional investors. So we had to go ahead and develop an index of our own. And the question that the the team at Wells Fargo Foundation and Affordable Central Texas put to us was simply
00:07:14> 00:07:18: 00:07:18> 00:07:21: 00:07:22> 00:07:25: 00:07:25> 00:07:29: 00:07:29> 00:07:33: 00:07:33> 00:07:36: 00:07:37> 00:07:41: 00:07:41> 00:07:46:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this category of housing and evaluated the the returns and. Risk and the correlation. So those are things that are very important to institutional investors. So we had to go ahead and develop an index of our own. And the question that the the team at Wells Fargo Foundation and Affordable Central Texas put to us was simply this, do the performance of buildings which offer a rent
00:07:14> 00:07:18: 00:07:18> 00:07:21: 00:07:22> 00:07:25: 00:07:25> 00:07:29: 00:07:29> 00:07:33: 00:07:33> 00:07:36: 00:07:41> 00:07:41: 00:07:41> 00:07:51: 00:07:51> 00:07:56:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this category of housing and evaluated the the returns and. Risk and the correlation. So those are things that are very important to institutional investors. So we had to go ahead and develop an index of our own. And the question that the the team at Wells Fargo Foundation and Affordable Central Texas put to us was simply this, do the performance of buildings which offer a rent level which somebody earning 80% or less of area, median
00:07:14> 00:07:18: 00:07:18> 00:07:21: 00:07:22> 00:07:25: 00:07:25> 00:07:29: 00:07:29> 00:07:33: 00:07:33> 00:07:36: 00:07:41> 00:07:41: 00:07:41> 00:07:51: 00:07:51> 00:07:56: 00:07:56> 00:08:01:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this category of housing and evaluated the the returns and. Risk and the correlation. So those are things that are very important to institutional investors. So we had to go ahead and develop an index of our own. And the question that the the team at Wells Fargo Foundation and Affordable Central Texas put to us was simply this, do the performance of buildings which offer a rent level which somebody earning 80% or less of area, median family income or area family income or median family income
00:07:14> 00:07:18: 00:07:18> 00:07:21: 00:07:22> 00:07:25: 00:07:25> 00:07:29: 00:07:29> 00:07:33: 00:07:33> 00:07:36: 00:07:41> 00:07:41: 00:07:41> 00:07:51: 00:07:51> 00:07:56: 00:07:56> 00:08:01: 00:08:01> 00:08:05:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this category of housing and evaluated the the returns and. Risk and the correlation. So those are things that are very important to institutional investors. So we had to go ahead and develop an index of our own. And the question that the the team at Wells Fargo Foundation and Affordable Central Texas put to us was simply this, do the performance of buildings which offer a rent level which somebody earning 80% or less of area, median family income or area family income or median family income can afford. So why don't we go to the 4th
00:07:14> 00:07:18: 00:07:18> 00:07:21: 00:07:22> 00:07:25: 00:07:25> 00:07:29: 00:07:29> 00:07:33: 00:07:33> 00:07:36: 00:07:37> 00:07:41: 00:07:41> 00:07:46: 00:07:51> 00:07:51: 00:07:56> 00:07:56: 00:07:56> 00:08:01: 00:08:01> 00:08:05: 00:08:05> 00:08:06:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this category of housing and evaluated the the returns and. Risk and the correlation. So those are things that are very important to institutional investors. So we had to go ahead and develop an index of our own. And the question that the the team at Wells Fargo Foundation and Affordable Central Texas put to us was simply this, do the performance of buildings which offer a rent level which somebody earning 80% or less of area, median family income or area family income or median family income can afford. So why don't we go to the 4th slide and talk about.
00:07:14> 00:07:18: 00:07:18> 00:07:21: 00:07:22> 00:07:25: 00:07:25> 00:07:29: 00:07:29> 00:07:33: 00:07:33> 00:07:36: 00:07:37> 00:07:41: 00:07:41> 00:07:41: 00:07:51> 00:07:51: 00:07:56> 00:07:56: 00:07:56> 00:08:01: 00:08:01> 00:08:05: 00:08:05> 00:08:06: 00:08:07> 00:08:10:	Real Estate investment fiduciary. I wasn't Jake and I weren't really aware of any empirical evidence that looked at this category of housing and evaluated the the returns and. Risk and the correlation. So those are things that are very important to institutional investors. So we had to go ahead and develop an index of our own. And the question that the the team at Wells Fargo Foundation and Affordable Central Texas put to us was simply this, do the performance of buildings which offer a rent level which somebody earning 80% or less of area, median family income or area family income or median family income can afford. So why don't we go to the 4th slide and talk about. Uh, just how, yeah, this is a great one this

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
00:10:12> 00:10:18:	the chat room. Yeah, you can pull it down and
00:10:13> 00:10:13: 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
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
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

00.42.50 > 00.42.52.	monthly utility apote
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 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 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:	lf.
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, 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
00:29:29> 00:29:32: 00:29:32> 00:29:35:	• •
	there
00:29:32> 00:29:35:	there there would be different ways that that that this could
00:29:32> 00:29:35: 00:29:35> 00:29:38:	there there would be different ways that that that this could be done and you know maybe it would be adjusted
00:29:32> 00:29:35: 00:29:35> 00:29:38: 00:29:38> 00:29:41:	there there would be different ways that that that this could be done and you know maybe it would be adjusted by household size, which you know we were not able
00:29:32> 00:29:35: 00:29:35> 00:29:38: 00:29:38> 00:29:41: 00:29:41> 00:29:44:	there there would be different ways that that that this could be done and you know maybe it would be adjusted by household size, which you know we were not able to do in our analysis here. So there are different
00:29:32> 00:29:35: 00:29:35> 00:29:38: 00:29:38> 00:29:41: 00:29:41> 00:29:44: 00:29:44> 00:29:46:	there there would be different ways that that that this could be done and you know maybe it would be adjusted by household size, which you know we were not able to do in our analysis here. So there are different ways that it could be done.
00:29:32> 00:29:35: 00:29:35> 00:29:38: 00:29:38> 00:29:41: 00:29:41> 00:29:44: 00:29:44> 00:29:46: 00:29:48> 00:29:51:	there there would be different ways that that that this could be done and you know maybe it would be adjusted by household size, which you know we were not able to do in our analysis here. So there are different ways that it could be done. But you know, however we're done, we think it would
00:29:32> 00:29:35: 00:29:35> 00:29:38: 00:29:38> 00:29:41: 00:29:41> 00:29:44: 00:29:44> 00:29:46: 00:29:48> 00:29:51: 00:29:51> 00:29:55:	there there would be different ways that that that this could be done and you know maybe it would be adjusted by household size, which you know we were not able to do in our analysis here. So there are different ways that it could be done. But you know, however we're done, we think it would have a lot of benefits and we were thinking about some precedents, other successful efforts that have been
00:29:32> 00:29:35: 00:29:35> 00:29:38: 00:29:38> 00:29:41: 00:29:41> 00:29:44: 00:29:44> 00:29:46: 00:29:48> 00:29:51: 00:29:51> 00:29:55: 00:29:55> 00:29:59:	there there would be different ways that that that this could be done and you know maybe it would be adjusted by household size, which you know we were not able to do in our analysis here. So there are different ways that it could be done. But you know, however we're done, we think it would have a lot of benefits and we were thinking about some precedents, other successful efforts that have been arrived at
00:29:32> 00:29:35: 00:29:35> 00:29:38: 00:29:38> 00:29:41: 00:29:41> 00:29:44: 00:29:44> 00:29:46: 00:29:48> 00:29:51: 00:29:51> 00:29:55: 00:29:55> 00:29:59:	there there would be different ways that that that this could be done and you know maybe it would be adjusted by household size, which you know we were not able to do in our analysis here. So there are different ways that it could be done. But you know, however we're done, we think it would have a lot of benefits and we were thinking about some precedents, other successful efforts that have been arrived at to.
00:29:32> 00:29:35: 00:29:35> 00:29:38: 00:29:38> 00:29:41: 00:29:41> 00:29:44: 00:29:44> 00:29:46: 00:29:48> 00:29:51: 00:29:51> 00:29:55: 00:29:55> 00:29:59: 00:29:59> 00:30:00: 00:30:00> 00:30:03:	there there would be different ways that that that this could be done and you know maybe it would be adjusted by household size, which you know we were not able to do in our analysis here. So there are different ways that it could be done. But you know, however we're done, we think it would have a lot of benefits and we were thinking about some precedents, other successful efforts that have been arrived at to. To to create standards where you know a kind of a product, an investment product could, could gain
00:29:32> 00:29:35: 00:29:35> 00:29:38: 00:29:38> 00:29:41: 00:29:41> 00:29:44: 00:29:44> 00:29:46: 00:29:48> 00:29:51: 00:29:51> 00:29:55: 00:29:55> 00:29:59: 00:29:59> 00:30:00: 00:30:00> 00:30:03: 00:30:04> 00:30:08:	there there would be different ways that that that this could be done and you know maybe it would be adjusted by household size, which you know we were not able to do in our analysis here. So there are different ways that it could be done. But you know, however we're done, we think it would have a lot of benefits and we were thinking about some precedents, other successful efforts that have been arrived at to. To to create standards where you know a kind of a product, an investment product could, could, could gain recognition
00:29:32> 00:29:35: 00:29:35> 00:29:38: 00:29:38> 00:29:41: 00:29:41> 00:29:44: 00:29:44> 00:29:46: 00:29:48> 00:29:51: 00:29:51> 00:29:55: 00:29:55> 00:29:59: 00:29:59> 00:30:00: 00:30:00> 00:30:03: 00:30:04> 00:30:11:	there there would be different ways that that that this could be done and you know maybe it would be adjusted by household size, which you know we were not able to do in our analysis here. So there are different ways that it could be done. But you know, however we're done, we think it would have a lot of benefits and we were thinking about some precedents, other successful efforts that have been arrived at to. To to create standards where you know a kind of a product, an investment product could, could, could gain recognition and just one what we thought of as a successful precedent was the enterprise Green Community standard
00:29:32> 00:29:35: 00:29:35> 00:29:38: 00:29:38> 00:29:41: 00:29:41> 00:29:44: 00:29:44> 00:29:46: 00:29:48> 00:29:51: 00:29:51> 00:29:55: 00:29:55> 00:29:59: 00:29:59> 00:30:00: 00:30:00> 00:30:03: 00:30:04> 00:30:11: 00:30:11> 00:30:16:	there there would be different ways that that that this could be done and you know maybe it would be adjusted by household size, which you know we were not able to do in our analysis here. So there are different ways that it could be done. But you know, however we're done, we think it would have a lot of benefits and we were thinking about some precedents, other successful efforts that have been arrived at to. To to create standards where you know a kind of a product, an investment product could, could, could gain recognition and just one what we thought of as a successful precedent was the enterprise Green Community standard which you know

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 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 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 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
00:39:03> 00:39:08:	couldn't really find one that we heard about little things.
00:39:08> 00:39:11:	There are some people are collecting it, but we didn't
00:39:11> 00:39:15:	have something that gave us a long enough time series.

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

00.40.07 . 00.40.00.	
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 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

00:48:10> 00:48:14:School that their educational outcome is better. Same thing for00:48:14> 00:48:18:health outcomes. If you've got stable housing and it's clean00:48:22> 00:48:22:health outcome should improve. But I don't know how to00:48:22> 00:48:29:how to measure that. And you know, I think there's00:48:23> 00:48:32:you know you know in addition to the returns there's00:48:24> 00:48:39:also this social impact that would be great to be00:48:32> 00:48:39:also this social impact that would be great to be00:48:32> 00:48:39:also this social impact that would be great to be00:48:44> 00:48:44:Nate Reef measuring things on on on any SG level00:48:44> 00:48:55:to get those kind of measures as well.00:48:45> 00:48:55:to get those kind of measures as well.00:48:56> 00:48:58:And there are, there are many groups doing trying to00:48:51> 00:49:01:do that grisby and others and there are some committees00:49:04> 00:49:01:that we're all working on that and 11 might00:49:04> 00:49:01:step back from some of those things and as it00:49:04> 00:49:14:Become rental housing, I mentioned the tenant side earlier, but00:49:14> 00:49:14:some of the soft costs or the frictions that can00:49:21> 00:49:14:some of the soft costs or the friction that can00:49:14> 00:49:14:some of the soft costs or the friction that can00:49:21> 00:49:31:know creating a partnership with HUD to make it easier00:49:24> 00:49:31:know creating a	00:48:04> 00:48:08:	have stable housing and kids aren't being forced to move
for00:48:14> 00:48:18health outcomes. If you've got stable housing and it's clean00:48:18> 00:48:22and it's and it's, you know, a healthy environment, the00:48:22> 00:48:25health outcome should improve. But I don't know how to00:48:25> 00:48:29how to measure that. And you know, I think there's00:48:22> 00:48:36also this social impact that would be great to be00:48:32> 00:48:39able to measure and report on as well. And and00:48:34> 00:48:44Nate Reef measuring things on on on any SG level00:48:45> 00:48:47yet but maybe there's a way that you know an00:48:52> 00:48:51to get those kind of measures as well.00:48:52> 00:48:52to get those kind of measures as well.00:48:54> 00:48:51do that grisby and others and there are some committees00:49:01> 00:49:01do that grisby and others and there are some committees00:49:01> 00:49:02that we're all working on that and I I might00:49:02> 00:49:03step back from some of those things and as it00:49:03> 00:49:04that we're all working on that and I I might00:49:14> 00:49:11slow the process or make it difficult to bring this00:49:27> 00:49:21slow the process or make it difficult to bring this00:49:27> 00:49:21slow the process or make it difficult to make it easier00:49:13> 00:49:14to kok at that data. They they do a great00:49:27> 00:49:21government data. They they do a great00:49:31> 00:49:37job of putting out median family income on a year <th>00:48:08&gt; 00:48:10:</th> <th>from school to school.</th>	00:48:08> 00:48:10:	from school to school.
00:48:18 -> 00:48:22:and it's and it's, you know, a healthy environment, the00:48:22 -> 00:48:25:health outcome should improve. But I don't know how to00:48:25 -> 00:48:29:how to measure that. And you know, I think there's00:48:32 -> 00:48:32:you know you know in addition to the returns there's00:48:32 -> 00:48:33:also this social impact that would be great to be00:48:36 -> 00:48:39:able to measure and report on as well. And and00:48:40 -> 00:48:44:Nate Reef measuring things on on on any SG level00:48:44 -> 00:48:47:yet but maybe there's a way that you know an00:48:45 -> 00:48:52:acre if can you know top into the trillion dollars00:48:46 -> 00:48:55:to get those kind of measures as well.00:48:56 -> 00:48:58:And there are, there are many groups doing trying to00:49:01 -> 00:49:04:that whether it's Priya or UI or an acre if00:49:01 -> 00:49:01:that we're all working on that and I I might00:49:01 -> 00:49:01:step back from some of those things and as it00:49:01 -> 00:49:01:relates to moderate.00:49:12 -> 00:49:18:some of the soft costs or the frictions that can00:49:14 -> 00:49:18:some of the soft costs or the and it is and so we you00:49:21 -> 00:49:14:sow the process or make it difficult to bring this00:49:17 -> 00:49:18:some of the soft costs or the frictions that can00:49:17 -> 00:49:18:sow treating a partnership with HUD to make it easier00:49:17 -> 00:49:18:sow to got meani it is and so we you00:49:17 -> 00:49:31:to look at th	00:48:10> 00:48:14:	
00:48:22 -> 00:48:25:health outcome should improve. But I don't know how to00:48:25 -> 00:48:29:how to measure that. And you know, I think there's00:48:29 -> 00:48:32:you know you know in addition to the returns there's00:48:32 -> 00:48:33:also this social impact that would be great to be00:48:36 -> 00:48:39:able to measure and report on as well. And and00:48:39 -> 00:48:40:I don't, I don't.00:48:40 -> 00:48:41:Nate Reef measuring things on on on any SG level00:48:42 -> 00:48:42:you know tap into the trillion dollars00:48:53 -> 00:48:54:toget those kind of measures as well.00:48:54 -> 00:48:55:toget those kind of measures as well.00:48:55 -> 00:48:56:And there are, there are many groups doing trying to00:48:58 -> 00:49:01:do that grisby and others and there are some committees00:49:04 -> 00:49:06:that whether it's Priya or UI or an acre if00:49:06 -> 00:49:09:step back from some of those things and as it00:49:10 -> 00:49:10:relates to moderate.00:49:11 -> 00:49:14:Become rental housing, I mentioned the tenant side earlier, but00:49:22 -> 00:49:21:slow the process or make it difficult to bring this00:49:24 -> 00:49:21:government data. I mean it is and so we you00:49:24 -> 00:49:31:to look at that data. They they do a great00:49:31 -> 00:49:34:to look at that data. They they do a great00:49:36 -> 00:49:37:job of putting out median family income on a year00:49:36 -> 00:49:31:know creating a partnership with HUD to make it easier <th>00:48:14&gt; 00:48:18:</th> <th>health outcomes. If you've got stable housing and it's clean</th>	00:48:14> 00:48:18:	health outcomes. If you've got stable housing and it's clean
00:48:25 -> 00:48:29: 00:48:32 -> 00:48:32: you know you know in addition to the returns there's you know you know in addition to the returns there's also this social impact that would be great to be able to measure and report on as well. And and 10:48:36 -> 00:48:39: able to measure and report on as well. And and 10:48:39 -> 00:48:40: 1 I don't.00:48:40 -> 00:48:44: Nate Reef measuring things on on on any SG level yet but maybe there's a way that you know an 00:48:44 -> 00:48:47: yet but maybe there's a way that you know an 00:48:48 -> 00:48:47: yet but maybe there's a way that you know an 00:48:52 -> 00:48:52: acre if can you know tap into the trillion dollars 00:48:55 -> 00:48:56: And there are, there are many groups doing trying to do that grisby and others and there are some committees 00:49:56 -> 00:49:06: that whether it's Priya or UI or an acre if 00:49:04 -> 00:49:06: that whether it's Priya or UI or an acre if 00:49:06 -> 00:49:06: that we're all working on that and I I might 00:49:07 -> 00:49:10: relates to moderate. 00:49:11 -> 00:49:121: but 00:49:121 -> 00:49:121: some of the soft costs or the frictions that can 00:49:18 -> 00:49:121: some of the soft costs or the frictions that can 00:49:131 -> 00:49:131: know creating a partnership with HUD to make it easier 00:49:131 -> 00:49:14: buy year basis but for the type of analysis that. 00:49:37 -> 00:49:31: buy year basis but for the type of analysis that. 00:49:37 -> 00:49:49:40: buy year basis but for the type of analysis that. 00:49:40 -> 00:49:44: buy year basis but for the type of analysis that. 00:49:41 -> 00:49:45: buy year basis but for the type of analysis that. 00:49:41 -> 00:49:45: buy year basis but for the type of analysis that. 00:49:41 -> 00:49:45: buy year basis but for the type of analysis that. 00:4	00:48:18> 00:48:22:	and it's and it's, you know, a healthy environment, the
00:48:29 -> 00:48:32:you know you know in addition to the returns there's00:48:32 -> 00:48:36:also this social impact that would be great to be00:48:36 -> 00:48:39:able to measure and report on as well. And and00:48:39 -> 00:48:40:I don't, I don't.00:48:40 -> 00:48:44:Nate Reef measuring things on on on any SG level00:48:44 -> 00:48:47:yet but maybe there's a way that you know an00:48:52 -> 00:48:52:acre if can you know tap into the trillion dollars00:48:52 -> 00:48:52:to get those kind of measures as well.00:48:55 -> 00:48:58:And there are, there are many groups doing trying to00:48:56 -> 00:49:01:do that grisby and others and there are some committees00:49:01 -> 00:49:04:that whether it's Priya or UI or an acre if00:49:06 -> 00:49:09:step back from some of those things and as it00:49:10 -> 00:49:11:relates to moderate.00:49:11 -> 00:49:12:some of the soft costs or the frictions that can00:49:12 -> 00:49:13:some of the soft costs or the frictions that can00:49:14 -> 00:49:14:government data. I mean it is and so we you00:49:27 -> 00:49:21:job of putting out median family income on a year00:49:31 -> 00:49:34:Do love and there smight do and investors, they want to00:49:37 -> 00:49:44:Developers and others might do and investors, they want to00:49:47 -> 00:49:44:Dovelopers and others might do and investors, they want to00:49:47 -> 00:49:44:Dovelopers and others might do and investors, they want to00:49:47 -> 00:49:44:Dovelopers and	00:48:22> 00:48:25:	health outcome should improve. But I don't know how to
00:48:32> 00:48:36:also this social impact that would be great to be00:48:36> 00:48:39:able to measure and report on as well. And and00:48:39> 00:48:40:I don't. I don't.00:48:40> 00:48:41:Nate Reef measuring things on on on any SG level00:48:44> 00:48:42:acre if can you know tap into the trillion dollars00:48:54> 00:48:52:acre if can you know tap into the trillion dollars00:48:55> 00:48:58:And there are, there are many groups doing trying to00:48:58> 00:48:58:And there are, there are many groups doing trying to00:48:58> 00:49:01:do that grisby and others and there are some committees00:49:04> 00:49:06:that we're all working on that and I I might00:49:06> 00:49:06:that we're all working on that and I I might00:49:07> 00:49:10:relates to moderate.00:49:10> 00:49:11:Become rental housing, I mentioned the tenant side earlier, but00:49:11> 00:49:12:some of the soft costs or the frictions that can00:49:21> 00:49:12:government data. I mean it is and so we you00:49:22> 00:49:27:government data. I mean it is and so we you00:49:31> 00:49:31:know creating a partnership with HUD to make it easier00:49:37> 00:49:31:job of putting out median family income on a year00:49:40> 00:49:47:look at a time series. So just simply, you know,00:49:47> 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 way00:49:44> 00:49:4	00:48:25> 00:48:29:	how to measure that. And you know, I think there's
00:48:36> 00:48:39:able to measure and report on as well. And and00:48:39> 00:48:40:I don't. I don't.00:48:40> 00:48:44:Nate Reef measuring things on on any SG level00:48:44> 00:48:47:yet but maybe there's a way that you know an00:48:48> 00:48:52:acre if can you know tap into the trillion dollars00:48:55> 00:48:55:to get those kind of measures as well.00:48:56> 00:48:58:And there are, there are many groups doing trying to00:48:58> 00:49:01:do that grisby and others and there are some committees00:49:01> 00:49:04:that whether it's Priya or UI or an acre if00:49:04> 00:49:06:that we're all working on that and I I might00:49:07> 00:49:09:step back from some of those things and as it00:49:09> 00:49:10:relates to moderate.00:49:10> 00:49:14:Become rental housing, I mentioned the tenant side earlier, but00:49:14> 00:49:18:some of the soft costs or the frictions that can00:49:27> 00:49:13:kow creating a partnership with HUD to make it easier00:49:27> 00:49:21:government data. I mean it is and so we you00:49:37> 00:49:34:to look at that data. They they do a great00:49:40> 00:49:34:by year basis but for the type of analysis that.00:49:41> 00:49:34:to look at that data. They they and in a way00:49:47 -> 00:49:34:by eelopers and others might do and investors, they want to00:49:47 -> 00:49:49:40:by gear basis but for the type of analysis that.00:49:41 -> 00:49:44:organizing the informa	00:48:29> 00:48:32:	you know you know in addition to the returns there's
00:48:39> 00:48:40:I don't, I don't.00:48:40> 00:48:44:Nate Reef measuring things on on any SG level00:48:44> 00:48:47:yet but maybe there's a way that you know an00:48:48> 00:48:52:acre if can you know tap into the trillion dollars00:48:55> 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 to00:48:58> 00:49:01:do that grisby and others and there are some committees00:49:01> 00:49:04:that whether it's Priya or UI or an acre if00:49:06> 00:49:06:that we're all working on that and I I might00:49:07> 00:49:09:step back from some of those things and as it00:49:09> 00:49:10:relates to moderate.00:49:10> 00:49:11:Become rental housing, I mentioned the tenant side earlier, but00:49:14> 00:49:18:some of the soft costs or the frictions that can00:49:14> 00:49:13:slow the process or make it difficult to bring this00:49:24> 00:49:27:government data. I mean it is and so we you00:49:27> 00:49:31:know creating a partnership with HUD to make it easier00:49:31> 00:49:34:to look at that data. They they do a great00:49:40> 00:49:41:Developers and others might do and investors, they want to00:49:37 -> 00:49:37:job of putting out median family income on a year00:49:37 -> 00:49:34:Developers and others might do and investors, they want to00:49:40> 00:49:50:organizing the information that they already had in a way00:49:41> 00:49:50:	00:48:32> 00:48:36:	also this social impact that would be great to be
00:48:40> 00:48:44:Nate Reef measuring things on on on any SG level00:48:44> 00:48:72:yet but maybe there's a way that you know an00:48:46> 00:48:52:acre if can you know tap into the trillion dollars00:48:52> 00:48:55:to get those kind of measures as well.00:48:55> 00:48:56:And there are, there are many groups doing trying to00:48:58> 00:49:01:do that grisby and others and there are some committees00:49:01> 00:49:04:that whether it's Priya or UI or an acre if00:49:04> 00:49:06:that we're all working on that and I I might00:49:06> 00:49:09:step back from some of those things and as it00:49:09> 00:49:10:relates to moderate.00:49:10> 00:49:14:Become rental housing, I mentioned the tenant side earlier, but00:49:14> 00:49:13:some of the soft costs or the frictions that can00:49:14> 00:49:14:some of the soft costs or the friction that can00:49:14> 00:49:13:some of the soft costs or the grout to bring this00:49:14> 00:49:24:type of housing on is just also some of the00:49:27> 00:49:31:government data. I mean it is and so we you00:49:31> 00:49:34:to look at that data. They they do a great00:49:40> 00:49:44:job of putting out median family income on a year00:49:41> 00:49:44:bevelopers and others might do and investors, they want to00:49:41> 00:49:44:bevelopers and others might do and investors, they want to00:49:41> 00:49:50:iook at a time series. So just simply, you know,00:49:41> 0	00:48:36> 00:48:39:	able to measure and report on as well. And and
00:48:44> 00:48:47:yet but maybe there's a way that you know an acre if can you know tap into the trillion dollars00:48:48> 00:48:52:acre if can you know tap into the trillion dollars00:48:55> 00:48:55:to get those kind of measures as well.00:48:55> 00:49:01:do that grisby and others and there are some committees00:49:01> 00:49:04:that whether it's Priya or UI or an acre if00:49:04> 00:49:06:that we're all working on that and I I might00:49:06> 00:49:09:step back from some of those things and as it00:49:09> 00:49:10:relates to moderate.00:49:10> 00:49:14:Become rental housing, I mentioned the tenant side earlier, but00:49:14> 00:49:14:some of the soft costs or the frictions that can00:49:14> 00:49:13:some of the soft costs or the frictions that can00:49:21> 00:49:24:type of housing on is just also some of the00:49:21> 00:49:31:some or treatal a I mean it is and so we you00:49:31> 00:49:34:to look at that data. They they do a great00:49:31> 00:49:37:job of putting out median family income on a year00:49:40> 00:49:44:Developers and others might do and investors, they want to00:49:41> 00:49:50:organizing the information that they already had in a way00:49:41> 00:49:44:Ocel as that saccessible could help people look at it. The other00:49:41> 00:49:45:organizing the information that they already had in a way00:49:41> 00:49:50:organizing the information that they already had in a way00:49:41> 00:49:50:	00:48:39> 00:48:40:	l don't, l don't.
00:48:48> 00:48:52:acre if can you know tap into the trillion dollars00:48:52> 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 to00:48:58> 00:49:01:do that grisby and others and there are some committees00:49:01> 00:49:04:that whether it's Priya or UI or an acre if00:49:04> 00:49:06:that we're all working on that and I I might00:49:06> 00:49:09:step back from some of those things and as it00:49:09> 00:49:10:relates to moderate.00:49:10> 00:49:14:Become rental housing, I mentioned the tenant side earlier, but00:49:14> 00:49:18:some of the soft costs or the frictions that can00:49:14> 00:49:12:slow the process or make it difficult to bring this00:49:21> 00:49:24:type of housing on is just also some of the00:49:27> 00:49:27:government data. I mean it is and so we you00:49:31> 00:49:31:know creating a partnership with HUD to make it easier00:49:31> 00:49:44:by year basis but for the type of analysis that.00:49:37> 00:49:44:Developers and others might do and investors, they want to00:49:34> 00:49:47:look at a time series. So just simply, you know,00:49:47> 00:49:56:that's accessible could help people look at it. The other00:49:37> 00:49:47:look at a time series. So just simply, you know,00:49:47> 00:49:56:that's accessible could help people look at it. The other00:49:50> 00:49:56:that's accessible could help people look at it. Th	00:48:40> 00:48:44:	Nate Reef measuring things on on on any SG level
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 to00:48:55> 00:49:01:do that grisby and others and there are some committees00:49:01> 00:49:04:that whether it's Priya or UI or an acre if00:49:04> 00:49:06:that we're all working on that and I I might00:49:06> 00:49:09:step back from some of those things and as it00:49:09> 00:49:10:relates to moderate.00:49:10> 00:49:14:Become rental housing, I mentioned the tenant side earlier, but00:49:14> 00:49:18:some of the soft costs or the frictions that can00:49:14> 00:49:18:some of the soft costs or the frictions that can00:49:14> 00:49:19:government data. I mean it is and so we you00:49:21> 00:49:21:government data. They they do a great00:49:31> 00:49:31:know creating a partnership with HUD to make it easier00:49:31> 00:49:31:job of putting out median family income on a year00:49:31> 00:49:44:Developers and others might do and investors, they want to00:49:37> 00:49:44:Developers and others might do and investors, they want to00:49:47> 00:49:47:look at a time series. So just simply, you know,00:49:47> 00:49:56:that's accessible could help people look at it. The other00:49:47> 00:49:47:look at a time series. So just simply, you know,00:49:47> 00:49:56:that's accessible could help people look at it. The other00:49:50> 00:49:55:some of these cities and try and figure out what<	00:48:44> 00:48:47:	yet but maybe there's a way that you know an
O0:48:55> 00:48:58:And there are, there are many groups doing trying to00:48:58> 00:49:01:do that grisby and others and there are some committees00:49:01> 00:49:04:that whether it's Priya or UI or an acre if00:49:04> 00:49:06:that we're all working on that and I I might00:49:06> 00:49:09:step back from some of those things and as it00:49:09> 00:49:10:relates to moderate.00:49:10> 00:49:14:Become rental housing, I mentioned the tenant side earlier, but00:49:14> 00:49:18:some of the soft costs or the frictions that can00:49:14> 00:49:18:some of the soft costs or the frictions that can00:49:14> 00:49:12:slow the process or make it difficult to bring this00:49:21> 00:49:21:government data. I mean it is and so we you00:49:22> 00:49:27:government data. They they do a great00:49:31> 00:49:31:know creating a partnership with HUD to make it easier00:49:31> 00:49:32:job of putting out median family income on a year00:49:34> 00:49:37:job of putting out median family income on a year00:49:37> 00:49:40:by year basis but for the type of analysis that.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 way00:49:47> 00:49:56:that's accessible could help people look at it. The other00:49:56> 00:49:59:some of these cities and try and figure out what00:49:56> 00:49:59:some of these cities and try and figure out what <th>00:48:48&gt; 00:48:52:</th> <th>acre if can you know tap into the trillion dollars</th>	00:48:48> 00:48:52:	acre if can you know tap into the trillion dollars
00:48:58> 00:49:01:do that grisby and others and there are some committees00:49:01> 00:49:04:that whether it's Priya or UI or an acre if00:49:04> 00:49:06:that we're all working on that and I I might00:49:06> 00:49:09:step back from some of those things and as it00:49:09> 00:49:10:relates to moderate.00:49:10> 00:49:14:Become rental housing, I mentioned the tenant side earlier, but00:49:14> 00:49:18:some of the soft costs or the frictions that can00:49:14> 00:49:12:slow the process or make it difficult to bring this00:49:14> 00:49:21:slow the process or make it difficult to bring this00:49:21> 00:49:21:government data. I mean it is and so we you00:49:24> 00:49:31:know creating a partnership with HUD to make it easier00:49:31> 00:49:31:to look at that data. They they do a great00:49:32> 00:49:37:job of putting out median family income on a year00:49:34> 00:49:37:look at a time series. So just simply, you know,00:49:44> 00:49:45:organizing the information that they already had in a way00:49:47> 00:49:50:organizing the information that they already had in a way00:49:50> 00:49:56:that's accessible could help people look at it. The other00:49:56> 00:49:59:some of these cities and try and figure out what00:49:56> 00:50:03:median family income is and what is the average household00:49:50> 00:50:05:size. And it's not an easy thing to do some.	00:48:52> 00:48:55:	to get those kind of measures as well.
$00:49:01 \rightarrow 00:49:04:$ that whether it's Priya or UI or an acre if $00:49:04 \rightarrow 00:49:06:$ that we're all working on that and 11 might $00:49:06 \rightarrow 00:49:09:$ step back from some of those things and as it $00:49:00 \rightarrow 00:49:09:$ relates to moderate. $00:49:00 \rightarrow 00:49:10:$ relates to moderate. $00:49:10 \rightarrow 00:49:14:$ Become rental housing, I mentioned the tenant side earlier, but $00:49:14 \rightarrow 00:49:18:$ some of the soft costs or the frictions that can $00:49:14 \rightarrow 00:49:18:$ some of the soft costs or make it difficult to bring this $00:49:14 \rightarrow 00:49:21:$ slow the process or make it difficult to bring this $00:49:12 \rightarrow 00:49:21:$ government data. I mean it is and so we you $00:49:21 \rightarrow 00:49:21:$ government data. They they do a great $00:49:21 \rightarrow 00:49:31:$ know creating a partnership with HUD to make it easier $00:49:31 \rightarrow 00:49:31:$ job of putting out median family income on a year $00:49:31 \rightarrow 00:49:31:$ by year basis but for the type of analysis that. $00:49:31 \rightarrow 00:49:41:$ Developers and others might do and investors, they want to $00:49:40 \rightarrow 00:49:41:$ look at a time series. So just simply, you know, $00:49:41 \rightarrow 00:49:51:$ organizing the information that they already had in a way $00:49:50 \rightarrow 00:49:52:$ that's accessible could help people look at it. The other $00:49:56 \rightarrow 00:49:59:$ some of these cities and try and figure out what $00:49:59 \rightarrow 00:50:05:$ median family income is and what is the average household $00:49:50 \rightarrow 00:50:05:$ size. And it's not an easy thing to do some. <th>00:48:55&gt; 00:48:58:</th> <th>And there are, there are many groups doing trying to</th>	00:48:55> 00:48:58:	And there are, there are many groups doing trying to
$00:49:04 \rightarrow 00:49:06:$ that we're all working on that and I I might $00:49:06 \rightarrow 00:49:09:$ step back from some of those things and as it $00:49:06 \rightarrow 00:49:10:$ relates to moderate. $00:49:10 \rightarrow 00:49:14:$ Become rental housing, I mentioned the tenant side earlier, but $00:49:14 \rightarrow 00:49:18:$ some of the soft costs or the frictions that can $00:49:14 \rightarrow 00:49:18:$ some of the soft costs or the frictions that can $00:49:14 \rightarrow 00:49:21:$ slow the process or make it difficult to bring this $00:49:21 \rightarrow 00:49:24:$ type of housing on is just also some of the $00:49:24 \rightarrow 00:49:27:$ government data. I mean it is and so we you $00:49:31 \rightarrow 00:49:34:$ to look at that data. They they do a great $00:49:31 \rightarrow 00:49:37:$ job of putting out median family income on a year $00:49:37 \rightarrow 00:49:37:$ by year basis but for the type of analysis that. $00:49:37 \rightarrow 00:49:44:$ Developers and others might do and investors, they want to $00:49:40 \rightarrow 00:49:44:$ Developers and others might do and investors, they want to $00:49:50 \rightarrow 00:49:56:$ that's accessible could help people look at it. The other $00:49:50 \rightarrow 00:49:56:$ thing I would say is that, you know, go to $00:49:56 \rightarrow 00:49:59:$ some of these cities and try and figure out what $00:49:50 \rightarrow 00:50:03:$ median family income is and what is the average household $00:49:50 \rightarrow 00:50:05:$ size. And it's not an easy thing to do some.	00:48:58> 00:49:01:	do that grisby and others and there are some committees
$00:49:06 \rightarrow 00:49:09:$ step back from some of those things and as it $00:49:09 \rightarrow 00:49:10:$ relates to moderate. $00:49:10 \rightarrow 00:49:14:$ Become rental housing, I mentioned the tenant side earlier, but $00:49:14 \rightarrow 00:49:14:$ Some of the soft costs or the frictions that can $00:49:14 \rightarrow 00:49:18:$ some of the soft costs or the frictions that can $00:49:14 \rightarrow 00:49:12:$ slow the process or make it difficult to bring this $00:49:14 \rightarrow 00:49:21:$ slow the process or make it difficult to bring this $00:49:21 \rightarrow 00:49:24:$ type of housing on is just also some of the $00:49:24 \rightarrow 00:49:27:$ government data. I mean it is and so we you $00:49:27 \rightarrow 00:49:31:$ know creating a partnership with HUD to make it easier $00:49:31 \rightarrow 00:49:34:$ to look at that data. They they do a great $00:49:31 \rightarrow 00:49:37:$ job of putting out median family income on a year $00:49:37 \rightarrow 00:49:40:$ by year basis but for the type of analysis that. $00:49:40 \rightarrow 00:49:47:$ look at a time series. So just simply, you know, $00:49:41 \rightarrow 00:49:50:$ organizing the information that they already had in a way $00:49:50 \rightarrow 00:49:54:$ that's accessible could help people look at it. The other $00:49:56 \rightarrow 00:49:59:$ some of these cities and try and figure out what $00:49:59 \rightarrow 00:50:03:$ median family income is and what is the average household $00:50:03 \rightarrow 00:50:05:$ size. And it's not an easy thing to do some.	00:49:01> 00:49:04:	that whether it's Priya or UI or an acre if
$00:49:09 \rightarrow 00:49:10:$ relates to moderate. $00:49:10 \rightarrow 00:49:14:$ Become rental housing, I mentioned the tenant side earlier, but $00:49:14 \rightarrow 00:49:18:$ some of the soft costs or the frictions that can $00:49:14 \rightarrow 00:49:18:$ some of the soft costs or the frictions that can $00:49:14 \rightarrow 00:49:21:$ slow the process or make it difficult to bring this $00:49:21 \rightarrow 00:49:24:$ type of housing on is just also some of the $00:49:24 \rightarrow 00:49:27:$ government data. I mean it is and so we you $00:49:27 \rightarrow 00:49:31:$ know creating a partnership with HUD to make it easier $00:49:31 \rightarrow 00:49:34:$ to look at that data. They they do a great $00:49:37 \rightarrow 00:49:37:$ job of putting out median family income on a year $00:49:40 \rightarrow 00:49:44:$ Developers and others might do and investors, they want to $00:49:41 \rightarrow 00:49:50:$ organizing the information that they already had in a way $00:49:50 \rightarrow 00:49:54:$ that's accessible could help people look at it. The other $00:49:56 \rightarrow 00:50:03:$ some of these cities and try and figure out what $00:49:59 \rightarrow 00:50:05:$ size. And it's not an easy thing to do some.	00:49:04> 00:49:06:	that we're all working on that and I I might
00:49:10> 00:49:14:Become rental housing, I mentioned the tenant side earlier, but00:49:14> 00:49:18:some of the soft costs or the frictions that can00:49:18> 00:49:21:slow the process or make it difficult to bring this00:49:21> 00:49:24:type of housing on is just also some of the00:49:27> 00:49:37:government data. I mean it is and so we you00:49:31> 00:49:34:to look at that data. They they do a great00:49:37> 00:49:37:job of putting out median family income on a year00:49:40> 00:49:40:by year basis but for the type of analysis that.00:49:41> 00:49:45:look at a time series. So just simply, you know,00:49:42> 00:49:50:organizing the information that they already had in a way00:49:50> 00:49:54:that's accessible could help people look at it. The other00:49:56> 00:49:59:some of these cities and try and figure out what00:49:59> 00:50:05:size. And it's not an easy thing to do some.	00:49:06> 00:49:09:	step back from some of those things and as it
but00:49:14> 00:49:18:some of the soft costs or the frictions that can00:49:18> 00:49:21:slow the process or make it difficult to bring this00:49:21> 00:49:24:type of housing on is just also some of the00:49:24> 00:49:27:government data. I mean it is and so we you00:49:27> 00:49:31:know creating a partnership with HUD to make it easier00:49:31> 00:49:34:to look at that data. They they do a great00:49:37> 00:49:37:job of putting out median family income on a year00:49:37> 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 to00:49:47> 00:49:50:organizing the information that they already had in a way00:49:50> 00:49:50:that's accessible could help people look at it. The other00:49:54> 00:49:56:thing I would say is that, you know, go to00:49:56> 00:50:03:some of these cities and try and figure out what00:49:59> 00:50:05:size. And it's not an easy thing to do some.	00:49:09> 00:49:10:	relates to moderate.
00:49:18> 00:49:21:slow the process or make it difficult to bring this00:49:21> 00:49:24:type of housing on is just also some of the00:49:24> 00:49:27:government data. I mean it is and so we you00:49:27> 00:49:31:know creating a partnership with HUD to make it easier00:49:31> 00:49:34:to look at that data. They they do a great00:49:34> 00:49:37:job of putting out median family income on a year00:49:37> 00:49:40:by year basis but for the type of analysis that.00:49:40> 00:49:41:Developers and others might do and investors, they want to00:49:44> 00:49:47:look at a time series. So just simply, you know,00:49:50> 00:49:50:organizing the information that they already had in a way00:49:54> 00:49:56:that's accessible could help people look at it. The other00:49:56> 00:49:59:some of these cities and try and figure out what00:49:59> 00:50:03:median family income is and what is the average household00:50:03> 00:50:05:size. And it's not an easy thing to do some.	00:49:10> 00:49:14:	
00:49:21> 00:49:24:type of housing on is just also some of the00:49:24> 00:49:27:government data. I mean it is and so we you00:49:27> 00:49:31:know creating a partnership with HUD to make it easier00:49:31> 00:49:34:to look at that data. They they do a great00:49:34> 00:49:37:job of putting out median family income on a year00:49:37> 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 to00:49:47> 00:49:47:look at a time series. So just simply, you know,00:49:50> 00:49:50:organizing the information that they already had in a way00:49:54> 00:49:56:thing I would say is that, you know, go to00:49:56> 00:50:03:some of these cities and try and figure out what00:49:59> 00:50:05:size. And it's not an easy thing to do some.	00:49:14> 00:49:18:	some of the soft costs or the frictions that can
00:49:24> 00:49:27:government data. I mean it is and so we you00:49:27> 00:49:31:know creating a partnership with HUD to make it easier00:49:31> 00:49:34:to look at that data. They they do a great00:49:34> 00:49:37:job of putting out median family income on a year00:49:37> 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 to00:49:44> 00:49:47:look at a time series. So just simply, you know,00:49:50> 00:49:50:organizing the information that they already had in a way00:49:54> 00:49:56:thing I would say is that, you know, go to00:49:56> 00:50:03:some of these cities and try and figure out what00:49:59> 00:50:05:size. And it's not an easy thing to do some.	00:49:18> 00:49:21:	slow the process or make it difficult to bring this
00:49:27> 00:49:31:know creating a partnership with HUD to make it easier00:49:31> 00:49:34:to look at that data. They they do a great00:49:34> 00:49:37:job of putting out median family income on a year00:49:37> 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 to00:49:44> 00:49:47:look at a time series. So just simply, you know,00:49:50> 00:49:50:organizing the information that they already had in a way00:49:50> 00:49:54:that's accessible could help people look at it. The other00:49:56> 00:49:56:thing I would say is that, you know, go to00:49:59> 00:50:03:median family income is and what is the average household00:50:03> 00:50:05:size. And it's not an easy thing to do some.	00:49:21> 00:49:24:	type of housing on is just also some of the
00:49:31> 00:49:34:to look at that data. They they do a great00:49:34> 00:49:37:job of putting out median family income on a year00:49:37> 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 to00:49:44> 00:49:47:look at a time series. So just simply, you know,00:49:50> 00:49:50:organizing the information that they already had in a way00:49:50> 00:49:54:that's accessible could help people look at it. The other00:49:54> 00:49:56:thing I would say is that, you know, go to00:49:59> 00:50:03:some of these cities and try and figure out what00:49:59> 00:50:03:median family income is and what is the average household	00:49:24> 00:49:27:	government data. I mean it is and so we you
00:49:34> 00:49:37:job of putting out median family income on a year00:49:37> 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 to00:49:44> 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 way00:49:50> 00:49:54:that's accessible could help people look at it. The other00:49:54> 00:49:56:thing I would say is that, you know, go to00:49:56> 00:49:59:some of these cities and try and figure out what00:49:59> 00:50:03:median family income is and what is the average household00:50:03> 00:50:05:size. And it's not an easy thing to do some.	00:49:27> 00:49:31:	know creating a partnership with HUD to make it easier
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 to00:49:44> 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 way00:49:50> 00:49:54:that's accessible could help people look at it. The other00:49:54> 00:49:56:thing I would say is that, you know, go to00:49:56> 00:49:59:some of these cities and try and figure out what00:49:59> 00:50:03:median family income is and what is the average household00:50:03> 00:50:05:size. And it's not an easy thing to do some.	00:49:31> 00:49:34:	to look at that data. They they do a great
00:49:40> 00:49:44:Developers and others might do and investors, they want to look at a time series. So just simply, you know, organizing the information that they already had in a way 00:49:50> 00:49:50:00:49:50> 00:49:50:organizing the information that they already had in a way that's accessible could help people look at it. The other thing I would say is that, you know, go to some of these cities and try and figure out what median family income is and what is the average household size. And it's not an easy thing to do some.	00:49:34> 00:49:37:	job of putting out median family income on a year
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 way00:49:50> 00:49:54:that's accessible could help people look at it. The other00:49:54> 00:49:56:thing I would say is that, you know, go to00:49:56> 00:49:59:some of these cities and try and figure out what00:49:59> 00:50:03:median family income is and what is the average householdsize. And it's not an easy thing to do some.	00:49:37> 00:49:40:	by year basis but for the type of analysis that.
00:49:47> 00:49:50:organizing the information that they already had in a way00:49:50> 00:49:54:that's accessible could help people look at it. The other00:49:54> 00:49:56:thing I would say is that, you know, go to00:49:56> 00:49:59:some of these cities and try and figure out what00:49:59> 00:50:03:median family income is and what is the average householdsize. And it's not an easy thing to do some.	00:49:40> 00:49:44:	Developers and others might do and investors, they want to
00:49:50> 00:49:54:that's accessible could help people look at it. The other00:49:54> 00:49:56:thing I would say is that, you know, go to00:49:56> 00:49:59:some of these cities and try and figure out what00:49:59> 00:50:03:median family income is and what is the average household00:50:03> 00:50:05:size. And it's not an easy thing to do some.	00:49:44> 00:49:47:	look at a time series. So just simply, you know,
00:49:54> 00:49:56:thing I would say is that, you know, go to00:49:56> 00:49:59:some of these cities and try and figure out what00:49:59> 00:50:03:median family income is and what is the average household00:50:03> 00:50:05:size. And it's not an easy thing to do some.	00:49:47> 00:49:50:	organizing the information that they already had in a way
00:49:56> 00:49:59:some of these cities and try and figure out what00:49:59> 00:50:03:median family income is and what is the average household00:50:03> 00:50:05:size. And it's not an easy thing to do some.	00:49:50> 00:49:54:	that's accessible could help people look at it. The other
00:49:59> 00:50:03:median family income is and what is the average household00:50:03> 00:50:05:size. And it's not an easy thing to do some.	00:49:54> 00:49:56:	thing I would say is that, you know, go to
00:50:03> 00:50:05: size. And it's not an easy thing to do some.	00:49:56> 00:49:59:	some of these cities and try and figure out what
, 0	00:49:59> 00:50:03:	median family income is and what is the average household
		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
<b>00:50:09</b> > <b>00:50:10:</b> approach to it then others.		
<b>00:50:10&gt; 00:50:14:</b> Will be larger in terms of what they're what that	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 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 going to
00:52:04> 00:52:07:	see this wave of projects that had been started in
00:52:07> 00:52:10:	the last two years come online over the next 12
00:52:10> 00:52:13:	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 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 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 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 and of the research for the industry per
00:54:29> 00:54:29: 00:54:29> 00:54:32:	not the end of the research for the industry per
	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:	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.

This video transcript has been machine-generated, so it may not be accurate. It is for personal use only. Reproduction or use without written permission is prohibited. If you have a correction or for permission inquiries, please contact [email protected].