

## **Webinar**

## ULI Europe and PwC Emerging Trends in Real Estate 2023 Webinar 20 years of Emerging Trends

Date: November 30, 2022

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from

roundtables and we asked experts both within the industry

and 00:01:39 --> 00:01:42: outside the industry and we we also made sure that 00:01:43 --> 00:01:46: we included the views of the different generations. So we've 00:01:46 --> 00:01:50: got views particularly on the future coming from everyone from 00:01:50 --> 00:01:53: students, young leaders all the way up to people with 00:01:53 --> 00:01:56: their with more experience. So I just want to start 00:01:57 --> 00:01:59: by having a quick look back because I think it 00:01:59 --> 00:02:02: is really interesting when you take a step back. 00:02:02 --> 00:02:06: And just have a look at how much things have 00:02:06 --> 00:02:09: changed in quite a relatively short space of time and 00:02:09 --> 00:02:13: picking out some of the the quotes that we saw 00:02:13 --> 00:02:16: in some of the older editions of emerging trends have 00:02:16 --> 00:02:20: really illustrated that. So we had back in 2006 we 00:02:20 --> 00:02:23: had to the one of the findings from a survey 00:02:23 --> 00:02:28: question was actually a though mixed-use developments were sort of 00:02:28 --> 00:02:32: gaining in popularity still we still had the majority of 00:02:32 --> 00:02:33: people being wary. 00:02:33 --> 00:02:37: Of doing mixed-use development. And then a year later in 00:02:37 --> 00:02:40: 2007, one of the findings was that when asked about 00:02:40 --> 00:02:45: a new European sustainability legislation, the majority of the respondents 00:02:45 --> 00:02:49: and the industry didn't know anything about it, didn't really 00:02:49 --> 00:02:53: care and felt that green buildings were just a marketing 00:02:53 --> 00:02:56: ploy. So it's very encouraging to see that we have 00:02:56 --> 00:02:59: a we have moved on quite a lot since then, 00:02:59 --> 00:03:02:

but I would also say that actually in some aspects 00:03:02 --> 00:03:03: there hasn't been. 00:03:03 --> 00:03:06: Has much changed. So right the way back in our 00:03:06 --> 00:03:10: first report that we did that was an outlook for 00:03:10 --> 00:03:14: 2004, someone said that we're still building things in the

00:03:14 --> 00:03:16: way that we did 30 years ago and to some 00:03:16 --> 00:03:18: extent that's still true today. 00:03:20 --> 00:03:23: One of the things that we asked in our survey

00:03:23 --> 00:03:26: was having a look back again historically at what the

00:03:26 --> 00:03:30: biggest impacts have been on the real estate industry over

00:03:30 --> 00:03:33: the past 20 years. And you can see the results

00:03:33 --> 00:03:36: here. The biggest impact was deemed to be the low

00:03:36 --> 00:03:40: interest rate environment we've had and quantitative easing.

The second

00:03:40 --> 00:03:43: was the impact of the global financial crisis. And and 00:03:44 --> 00:03:47: looking at our report from 2009, someone likened this to

00:03:47> 00:03:50:	the fall of Rome, although they said that this time.
00:03:50> 00:03:55:	The Barbarians were already through the gate, so the importance
00:03:55> 00:03:58:	of the GFC really can't be understated. We then have
00:03:58> 00:04:02:	use of technology, urbanization, and the rise of ESG coming
00:04:02> 00:04:03:	in 5th place.
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00:04:05> 00:04:08:	So to try and break this report down, and we
00:04:08> 00:04:10:	did it so that we could.
00:04:11> 00:04:15:	Break it into six different categories with capital markets on
00:04:15> 00:04:19:	the path to net zero, taking on greater responsibility, customer
00:04:19> 00:04:23:	service, real estate as a product and cities and placemaking
00:04:23> 00:04:26:	and what I'm going to do. This obviously covers a
00:04:26> 00:04:29:	huge range of material. I'm just going to give you
00:04:29> 00:04:33:	a quick highlights from each of these topics. So starting
00:04:33> 00:04:36:	with capital markets and it really is amazing to see
00:04:36> 00:04:40:	the evolution of the industry that's happened over this. Over
00:04:40> 00:04:41:	that that two decade long.
00:04:41> 00:04:45:	It's gone from a relatively opaque industry to one that
00:04:45> 00:04:49:	is really integral to the financial markets and the availability
00:04:49> 00:04:52:	of data, being able to benchmark and track performance has
00:04:52> 00:04:54:	been really important there.
00:04:55> 00:05:00:	Just to illustrate how much the industry has grown since
00:05:00> 00:05:04:	then and we have since the GFC that European listed
00:05:04> 00:05:09:	real estate has grown from 174 billion to 441 billion
00:05:09> 00:05:13:	and in the non listed sector we've seen funds expand
00:05:13> 00:05:18:	from 45 to 536 vehicles according to INREV. So huge
00:05:18> 00:05:19:	growth there.
00:05:20> 00:05:23:	We just talked about the GFC having a a big
00:05:23> 00:05:26:	impact on the market and of course one of its
00:05:26> 00:05:30:	legacies has been this change in lending philosophy. So we
00:05:30> 00:05:34:	saw banks draw back, become much more conservative and
	that
00:05:34> 00:05:38:	hasn't changed and in in its way Cora alongside that
00:05:38> 00:05:40:	we also see when saw a new breed of lender
00:05:40> 00:05:45:	entering the market and they're likely to continue to influence
00:05:45> 00:05:46:	the market going forward.
00:05:47> 00:05:52:	We're also seeing where global capital is deployed is increasingly
00:05:52> 00:05:56:	being influenced and will continue to be influenced by disruptive
00:05:56> 00:06:00:	forces such as geopolitical events that in many cases are
00:06:00> 00:06:02:	quite hard to predict.

00:06:04> 00:06:07:	Now when we look back over the past 20 years,
00:06:07> 00:06:10:	we saw that ESG came in fifth place in terms
00:06:11> 00:06:14:	of the most influential factor for real estate. If we
00:06:14> 00:06:18:	look forward over the next 20 years, it's a very
00:06:18> 00:06:22:	different picture. You can see here the most influential factor
00:06:22> 00:06:26:	is expected to be the SG agenda followed by climate
00:06:26> 00:06:30:	change and decarbonization coming in 5th place. So it really
00:06:30> 00:06:33:	is widely acknowledged that the.
00:06:33> 00:06:37:	The industry accepts and and knows that this change needs
00:06:37> 00:06:41:	to happen. We know our responsibility, but it should not
00:06:41> 00:06:44:	be understated. The challenge that faces us as we look
00:06:44> 00:06:47:	ahead and some of the key themes that came out
00:06:47> 00:06:51:	of these are the reports and insights from the industry
00:06:51> 00:06:55:	are the refurbishment of existing buildings and embodied
	carbon are
00:06:55> 00:06:58:	two of the greatest challenges that we need to meet
00:06:58> 00:07:01:	and they will have an impact on value.
00:07:02> 00:07:05:	There's a vast capital expenditure that is needed.
00:07:06> 00:07:09:	Regulation is actually going to be really important, and what
00:07:09> 00:07:12:	I found interesting is that this seems to be really
00:07:12> 00:07:16:	welcomed by the industry, particularly when we spoke to the
00:07:16> 00:07:17:	younger generations.
00:07:18> 00:07:21:	Post technology has a part to play, and we're already
00:07:21> 00:07:24:	seeing some of that. In the case of smart buildings
00:07:24> 00:07:28:	or green building, material and other technology will emerge.
00:07:29> 00:07:32:	And finally, as the world warms and continues to warm
00:07:32> 00:07:36:	and climate resilience and adaptation are going to be critical
00:07:36> 00:07:40:	to combat those physical risks, and we're likely to see
00:07:40> 00:07:43:	more emphasis placed on biodiversity.
00:07:46> 00:07:49:	Another key theme that was really interesting that came out
00:07:49> 00:07:52:	when we were looking ahead and what was going to
00:07:52> 00:07:56:	make the most successful real estate going forward is this
00:07:56> 00:08:00:	idea of the industry taking on greater responsibility and responsible
00:08:00> 00:08:03:	capitalism was there was a key theme and I think
00:08:03> 00:08:06:	this chart here illustrates it. We asked what's going to
00:08:06> 00:08:11:	be important for this successful organizational transformation of the real
00:08:11> 00:08:14:	estate industry over the next 20 years and the top
00:08:14> 00:08:16:	2 answers are running an environmentally.
00:08:16> 00:08:23:	Socially responsible business and creating social impact alongside financial returns.
00:08:23> 00:08:28:	And this isn't just about decarbonization. This is thinking

about 00:08:28 --> 00:08:33: issues such as loneliness and aging, population inequality and society. 00:08:33 --> 00:08:37: Things that real estate can and actually should. 00:08:37 --> 00:08:40: Be having an impact and and working out how we 00:08:40 --> 00:08:42: can tackle them. 00:08:44 --> 00:08:47: Our 4th topic is customer service. And actually it's been 00:08:47 --> 00:08:51: really interesting to see the evolution in terms of the 00:08:51 --> 00:08:54: focus from the industry from landlords going to tenants and 00:08:54 --> 00:08:59: occupiers. And they're more recently focusing on customers. And we've 00:08:59 --> 00:09:02: seen companies and and we look forward and we think 00:09:02 --> 00:09:05: the most successful companies are going to be those that 00:09:05 --> 00:09:09: look beyond just the physical real estate and now look 00:09:09 --> 00:09:12: at the spaces as service and designing it around the 00:09:12 --> 00:09:14: needs of the occupiers that they want to. 00:09:14 --> 00:09:18: Attract and this may well mean that you see broadened 00:09:18 --> 00:09:23: business models and that are able to provide design, development, 00:09:23 --> 00:09:26: management and operational services. 00:09:28 --> 00:09:32: Reputation and brand will be key and diversity in real 00:09:32 --> 00:09:36: estate and hiring outside traditional skill sets are going to 00:09:36 --> 00:09:40: be really important in terms of being able to meet 00:09:40 --> 00:09:44: that customer service that is needed for the future. 00:09:46 --> 00:09:49: When we look at real estate as a product, it 00:09:49 --> 00:09:53: is really noticeable that we've seen an absolute explosion in 00:09:53 --> 00:09:55: the number of products that that we look at a 00:09:55 --> 00:09:59: number of different sectors. And I think a really nice 00:09:59 --> 00:10:01: way to illustrate this is when we have a look 00:10:01 --> 00:10:06: at our emerging trends rankings for development and investment prospects 00:10:06 --> 00:10:09: and have a look at the different sectors, we can 00:10:09 --> 00:10:12: see how that's changed. So back in 2004, the prospects 00:10:12 --> 00:10:16: for 2004, we looked at 8 different sectors. Interesting to 00:10:16 --> 00:10:17: note retail on top. 00:10:18 --> 00:10:22: By 2008 that had expanded to 10, but by 2016 00:10:22 --> 00:10:27: that had almost doubled and we were at 19 different 00:10:27 --> 00:10:32: sectors. Noticeable that residential has gone from just one. 00:10:33 --> 00:10:36: And before the GFC and we're now looking at a whole number of different residential sectors and the most 00:10:36 --> 00:10:40: recent 00:10:40 --> 00:10:44: outlook that we did that we published in this report 00:10:44 --> 00:10:48: is for 2023. And the top investment and development sectors

00:10:48> 00:10:51:	are there's 27 in total and the top being those
00:10:52> 00:10:57:	alternative perhaps more niche sectors like new energy infrastructure and
00:10:57> 00:11:00:	also a huge number of of residential sectors in that
00:11:00> 00:11:03:	top half of the table as well.
00:11:03> 00:11:06:	And I think if we look forward, what's going to
00:11:06> 00:11:09:	be really interesting is to see how the industry manages
00:11:09> 00:11:12:	the blurring of lines between these different sectors.
00:11:15> 00:11:21:	Finally for me we have cities and placemaking, so.
00:11:22> 00:11:25:	This the key theme that came out here was making
00:11:25> 00:11:28:	cities a better place to live and focusing on social
00:11:28> 00:11:32:	inclusion. And we've already seen a number of concepts emerged
00:11:32> 00:11:36:	that are going to try and help with this, things
00:11:36> 00:11:39:	like the 15 minute cities or smart cities, and we
00:11:39> 00:11:42:	expect to see more coming through in this space.
00:11:44> 00:11:48:	WhatsApp perhaps more radical is is when we were looking
00:11:48> 00:11:51:	forward 20 years we had a number of people talk
00:11:51> 00:11:56:	about the idea of self-sufficient neighbourhoods in urban locations that
00:11:56> 00:11:59:	are producing their own food, their own energy. If this
00:11:59> 00:12:03:	sounds a little bit like we're going back in the
00:12:03> 00:12:07:	past it's it's not. We're still talking about things that
00:12:07> 00:12:12:	are designed and management by technology, sophisticated adaptive AI sort
00:12:12> 00:12:14:	of managing and and designing.
00:12:14> 00:12:17:	These locations. So I think on on that note, it's
00:12:17> 00:12:21:	a nice place to stop to think about where we
00:12:21> 00:12:24:	might be living and how we might be living in
00:12:24> 00:12:27:	20 years from now. And I just want to say
00:12:27> 00:12:31:	thank you so much to everyone who contributed to this
00:12:31> 00:12:35:	report. We really can't do it without you. And the
00:12:35> 00:12:39:	full report is available on both UI and PWC's website
00:12:39> 00:12:43:	if you're interested in having a further look at that,
00:12:43> 00:12:44:	but to get more.
00:12:44> 00:12:47:	Insight to some of the topics that I've just covered.
00:12:47> 00:12:49:	I'm going to pass you back to Angus and the
00:12:49> 00:12:51:	rest of the panel. Thank you.
00:12:53> 00:12:56:	OK. Thank you, Sophie. If I can ask my fellow
00:12:56> 00:12:59:	panelist to to join in as well just while they're
00:12:59> 00:13:00:	doing that.
00:13:01> 00:13:04:	But this is an interactive session, so you should have
	•
00:13:04> 00:13:06:	on your screen a chat option.

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00:13:07 --> 00:13:11:
                          Which which will give you the.
                          OK. Can everyone hear me? I'm sorry about that. Yes,
00:13:24 --> 00:13:28:
00:13:28 --> 00:13:31:
                          it just just while everyone's joining, so.
00:13:32 --> 00:13:35:
                          We have a chat option here on the on the
00:13:35 --> 00:13:39:
                          screen. So, so anyone who wants to to ask a
00:13:39 --> 00:13:43:
                          question, just just type it into the chat and it'll
00:13:43 --> 00:13:45:
                          come up, I'll be able to see it and I
00:13:46 --> 00:13:50:
                          will introduce it into the mix, right. So. So let's,
00:13:50 --> 00:13:51:
                          let's get started.
                          I thought, I thought we might might start as is
00:13:52 --> 00:13:55:
00:13:55 --> 00:13:58:
                          is just sort of taking a really big picture look
00:13:58 --> 00:14:00:
                          at what we've seen in the last.
00:14:00 --> 00:14:03:
                          20 years and and and sort of try to reflect
00:14:03 --> 00:14:06:
                          on on sort of how that makes us think about
00:14:06 --> 00:14:09:
                          the 20 years to come if you like. I mean
                          it feels to me that that we've seen a number
00:14:09 --> 00:14:12:
00:14:12 --> 00:14:16:
                          of of you know quite quite extraordinary things happen.
00:14:18 --> 00:14:21:
                          And obviously we had the GFC we had the the
00:14:21 --> 00:14:25:
                          the the quantitative easing and and sort of the cheap
00:14:25 --> 00:14:28:
                          money that followed that that came up on the on
00:14:28 --> 00:14:32:
                          the on the report we've we've also seen a a
00:14:32 --> 00:14:36:
                          huge advance in technology you know I was checking earlier
00:14:36 --> 00:14:40:
                          it it's actually the first smartphone and I think we
00:14:40 --> 00:14:44:
                          probably would we accept that we measure the real rise
00:14:44 --> 00:14:48:
                          of technology from the introduction of the smartphone.
00:14:48 --> 00:14:51:
                          First smartphone was the iPhone. It was introduced in June
00:14:52 --> 00:14:55:
                          2007, which really doesn't feel that long ago, the way
00:14:55 --> 00:14:57:
                          I look at it. But you think about the extraordinary
00:14:57 --> 00:15:01:
                          change that that's that that's wrought since. But, you know,
00:15:01 --> 00:15:04:
                          we've had the, the, the GFC, which was an extraordinary
00:15:04 --> 00:15:07:
                          event. We've had a pandemic, which was an extraordinary
                          event.
00:15:07 --> 00:15:10:
                          We've now got a land war in Europe, which is
00:15:10 --> 00:15:13:
                          another extraordinary event, all of which I think, you know,
00:15:13 --> 00:15:16:
                          if you'd asked two or three years before those things
00:15:16 --> 00:15:18:
                          happened, do you think that would happen?
00:15:18 --> 00:15:20:
                          As people would have said, no.
00:15:20 --> 00:15:21:
                          But they have happened.
00:15:22 --> 00:15:25:
                          So I guess my first question to the to the
00:15:25 --> 00:15:28:
                          to kick around with the panelists is.
00:15:29 --> 00:15:32:
                          Whilst it's hard to predict what the next sort of
00:15:32 --> 00:15:33:
                          crisis would be.
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00:15:34> 00:15:38:	Is there anything that we can learn from what's happened
00:15:38> 00:15:41:	in the last 20 years that would help us do
00:15:41> 00:15:42:	you think in terms of?
00:15:43> 00:15:46:	Of resilience in in, in the face of crises.
00:15:47> 00:15:48:	To come.
00:15:49> 00:15:52:	Because I think what the last 20 years probably tells
00:15:52> 00:15:54:	us is that there will be.
00:15:54> 00:15:56:	I don't know what they are necessarily, but we can
00:15:56> 00:15:58:	talk about that, but I think they're probably will be.
00:16:00> 00:16:03:	Who wants to? Who wants to start? Duncan, why don't
00:16:04> 00:16:07:	you have, why don't you have first shot at that?
00:16:08> 00:16:13:	Gosh, yeah, it's a big topic and I think.
00:16:14> 00:16:17:	First of all, what a good presentation that was. That
00:16:17> 00:16:20:	was a really good whistle stop tour of 30,000 feet
00:16:20> 00:16:23:	of what's happened in the last couple of decades.
00:16:25> 00:16:28:	In order to answer the question, Angus, I'd probably.
00:16:28> 00:16:32:	Just take one step back briefly because listening to the
00:16:33> 00:16:36:	presentation, it feels like we're almost in a in a
00:16:36> 00:16:41:	fourth phase of real estate and real estate investing over
00:16:41> 00:16:44:	the cicada the last 20 years and I've maybe been
00:16:44> 00:16:46:	unkind to my profession.
00:16:46> 00:16:47:	But.
00:16:47> 00:16:50:	20 years or more ago, it seemed that.
00:16:51> 00:16:54:	We just bought buildings, let them on long leases, waited
00:16:54> 00:16:56:	for the lease to run to the end and then
00:16:56> 00:16:57:	sold them as a lower price.
00:16:58> 00:17:01:	And that moved into a slightly more proactive approach
	where
00:17:01> 00:17:04:	you would hear the terms where people would buy a
00:17:04> 00:17:07:	building their fix it, whatever that meant. They might be.
00:17:07> 00:17:10:	The might be the occupation, it might be the fabric
00:17:10> 00:17:12:	of the building and then they'd sell it.
00:17:12> 00:17:15:	That was often the mantra of a as you went
00:17:15> 00:17:19:	sort of through the 2000s up to the financial crisis.
00:17:19> 00:17:22:	Post the financial crisis, I think we moved into a
00:17:22> 00:17:26:	theme based investment criteria and there were some mega themes
00:17:26> 00:17:29:	people often used to talk about. I did when I
00:17:29> 00:17:32:	was introduced, we used to talk a lot about the
00:17:32> 00:17:36:	rapid urbanization, the fact that the world's population was going
00:17:36> 00:17:39:	from 50 to 75% living in urban cities and at
00:17:39> 00:17:41:	the same time it was going from 6 to 7
	- <del>-</del>

00:17:41> 00:17:43:	to 8 billion and on to 10.
00:17:44> 00:17:47:	Obviously the population was was aging and so the
	demographic
00:17:47> 00:17:50:	changes were huge and what we're doing and investment
00.47.50 > 00.47.50.	there
00:17:50> 00:17:52:	was a big consequence on what we needed in new
00:17:52> 00:17:55:	infrastructure and power and how we're going to get power.
00:17:55> 00:17:56:	We're seeing that now.
00:17:57> 00:18:00:	The technological revolution was amazing in every way from from
00:18:00> 00:18:04:	mobile phones, communications, the fact that were there. There's now
00:18:04> 00:18:07:	more than 10 billion mobile phone devices. The fact that.
00:18:08> 00:18:11:	There is now twice as much data existing as there
00:18:11> 00:18:14:	was two years ago globally. From where does that all
00:18:14> 00:18:17:	get stored? What happens? And there was this ship from
00:18:17> 00:18:19:	the West to the east and I think what's taken
00:18:20> 00:18:22:	over from those themes, which is sort of the answer
00:18:23> 00:18:25:	about the future as well as what we've learned.
00:18:26> 00:18:28:	Is people want more flexibility?
00:18:29> 00:18:31:	They want the real estate to be more operation focused,
00:18:32> 00:18:32:	customer focused.
00:18:33> 00:18:35:	And they now need it to be green. And you
00:18:35> 00:18:37:	need what we call 4S is you need buildings and
00:18:37> 00:18:41:	strategically important that are smart buildings, sustainable and safe.
00:18:42> 00:18:44:	And you and they're all all those points are intrinsically
00:18:44> 00:18:45:	linked.
00:18:46> 00:18:49:	So it's almost the fourth phase which is really focused
00:18:49> 00:18:53:	on ESG and flexibility and everything that goes with that
00:18:53> 00:18:56:	about amenities, social and the built in roles.
00:18:57> 00:18:59:	So if you look back and answering your question, I
00:18:59> 00:19:02:	think the key thing we've learned is we don't learn
00:19:02> 00:19:05:	from Alice's and. And by that I mean the first,
00:19:05> 00:19:07:	the first, the, the main point, the easiest point.
00:19:08> 00:19:13:	Is the fall in capital values and the instability and
00:19:13> 00:19:16:	the capital system that we have now.
00:19:17> 00:19:19:	Is an echo and I would argue with still the
00:19:20> 00:19:24:	consequence of the financial crisis. We're 14 years further on
00:19:24> 00:19:28:	with quantity easing, the resultant inflation and the resultant
	capital
00:19:28> 00:19:31:	crisis in that we are beginning to try and take
00:19:31> 00:19:35:	ourselves off the drug of quantitative easing and we can't

00:19:35> 00:19:39:	really afford to do that and that's having an impact
00:19:39> 00:19:42:	on it all but the very most productive and most
00:19:42> 00:19:45:	efficient economies. And what that means is it has a
00:19:45> 00:19:46:	huge impact.
00:19:47> 00:19:49:	And how it should be behaving as investors?
00:19:49> 00:19:54:	And requiring the Council to work more smartly with decarbonization,
00:19:54> 00:19:57:	having a pathway to net zero is essential. And we've
00:19:57> 00:20:00:	got to learn from those lessons, getting back to my
00:20:00> 00:20:03:	point. And we've got to have more flexibility and more
00:20:03> 00:20:07:	of an operational approach. So I'm sort of answering two
00:20:07> 00:20:09:	questions in one, forgive me, but.
00:20:10> 00:20:12:	Part One is we've got to learn from the previous
00:20:13> 00:20:16:	lessons and the evidence suggests we have them. And Part
00:20:16> 00:20:18:	2 is we're in this sort of fourth phase over
00:20:18> 00:20:22:	20 years, which is all about green, having sustainable strategies
00:20:22> 00:20:26:	and being more flexible. So we actually deliver more occupies
00:20:26> 00:20:29:	once and we've really got to learn those lessons.
00:20:33> 00:20:34:	Still only using this.
00:20:35> 00:20:38:	Mute, it keeps putting me on mute, right. It's quite
00:20:38> 00:20:41:	disappointing. But the, the, the, I think, I think
00:20:41> 00:20:44:	maybe the that what I take from that answer though
00:20:44> 00:20:47:	which I think is, is fair is that you know
00:20:47> 00:20:50:	we've spent the last 20 years somewhat reliant on yield
00:20:50> 00:20:51:	compression.
00:20:53> 00:20:57:	And and really the answer going forward is going to
00:20:57> 00:21:00:	have to be to be more focused on value creation
00:21:00> 00:21:04:	through asset management and that maybe that that in and
00:21:04> 00:21:08:	of itself would make the industry more resilient against against
00:21:08> 00:21:12:	shocks that might come through. I mean I guess a
00:21:12> 00:21:15:	if I was going to guess that what might be
00:21:15> 00:21:15:	a.
00:21:17> 00:21:20:	A surprise crisis that might come around and hit us
00:21:20> 00:21:23:	but but which we ought to be expecting anyway. You
00:21:23> 00:21:26:	know, it it could well be a climate based thing,
00:21:26> 00:21:28:	you know, a a so-called green swan.
00:21:29> 00:21:34:	Events, you know, a Pakistan style floods through Europe
00.04.04	that
00:21:34> 00:21:38:	makes half the built environment uninsurable a you know a
00:21:38> 00:21:42:	a series of heat waves if you like, which mean

00:21:42> 00:21:47:	that that the UK basic building structure which you know,
00:21:47> 00:21:51:	without wanting to sound too glib about it, I think
00:21:51> 00:21:55:	it could be defined as keeping the rain out and
00:21:55> 00:21:56:	the heat in.
00:21:57> 00:21:59:	You know, we would have to deal with a situation
00:21:59> 00:22:02:	where where there's not enough water and you're you're trying
00:22:02> 00:22:03:	to keep the heat out.
00:22:04> 00:22:08:	I mean, Juliet, I know you've you've thought about some
00:22:08> 00:22:11:	of these things. Are we, do you think we're underpricing
00:22:11> 00:22:14:	the risk of that? Do you think we have any
00:22:14> 00:22:17:	conception of of of what of what that sort
00:22:17> 00:22:18:	of crisis might look like?
00:22:20> 00:22:23:	I think this conversation shows that we think it's a
00:22:23> 00:22:27:	future event and actually anybody looking at some data would
00:22:27> 00:22:30:	realise that parts of London were underwater last year in
00:22:30> 00:22:35:	the previous year. That there are very substantially valuable assets
00:22:35> 00:22:38:	that have been impacted by flood in this country. A
00:22:38> 00:22:42:	commercial assets and residential three years ago just bringing it
00:22:42> 00:22:45:	to Europe, I think the on the registry of of
00:22:45> 00:22:49:	most impacted countries by value was Germany through massive flooding.
00:22:50> 00:22:52:	And then we saw you know a Green swan event,
00:22:52> 00:22:55:	a fire in London because of 40 degree heat last
00:22:55> 00:22:58:	year. So the fact that we're even talking about this
00:22:58> 00:23:03:	as something that's happening in the future at some unquantifiable
00:23:03> 00:23:06:	date suggests to me that we've, we've not embraced the
00:23:06> 00:23:09:	fact that it's, it's not happening in the future, it's
00:23:09> 00:23:13:	happening now. So has that fed through to pricing and
00:23:13> 00:23:16:	I suspect it hasn't partly because valuation is driven off,
00:23:16> 00:23:19:	annual valuation cycles are not CFD disclosures.
00:23:20> 00:23:22:	And and if you look at climate mapping, then most
00:23:22> 00:23:25:	of London would be underwater. So if you, if you
00:23:25> 00:23:28:	look at the value of all of London's assets and
00:23:28> 00:23:31:	that tells you a lot about whether we're priced in
00:23:31> 00:23:33:	that risk or not, it may well have started to
00:23:33> 00:23:36:	flow through to insurance premiums. But I I think you
00:23:36> 00:23:39:	mentioned a really important word which is a word that
00:23:39> 00:23:42:	hasn't come up very much in in the report. So
	•

00:23:42> 00:23:45:	we're talking a lot about ESG as an industry. We're
00:23:45> 00:23:49:	not talking as much about adaptation and resilience. It's
00.00.40 > 00.00.54	entirely
00:23:49> 00:23:51:	likely that we breached 1 1/2 degrees.
00:23:51> 00:23:54:	This summer. So if the tell 12 key indicators we
00:23:54> 00:23:58:	breached 6 and and there isn't a moment there's not
00:23:58> 00:24:02:	a an identifiable experience that that kicks in when when
00:24:02> 00:24:05:	the feedback leaks happen that we can say that was
00:24:05> 00:24:09:	the moment. So this isn't a kind of green trajectory
00:24:09> 00:24:13:	towards net zero that neatly goes to 203040 or 50
00:24:13> 00:24:16:	that will conveniently have greens ones that kick in at
00:24:17> 00:24:20:	a time that we're ready we need to be having
00:24:20> 00:24:21:	an adaptation and.
00:24:21> 00:24:24: 00:24:24> 00:24:27:	Brilliance, conversation at the same time as an ESG agenda
	in order to learn from the the sins of the
00:24:27> 00:24:27: 00:24:28> 00:24:31:	past.
00:24:31> 00:24:31:	So here's the thing, right? If you look back at
00:24:35> 00:24:39:	those reports going back to to 22,000 and three in
00:24:39> 00:24:43:	about 2006 and 2007, there were, you know, Cassandras out
00:24:43> 00:24:47:	there basically. And there they were talked about in the report talking about this markets getting overheated. There's
00.24.43> 00.24.47.	a real
00:24:47> 00:24:51:	bubble happening here. This could be a problem.
00:24:52> 00:24:54:	But we don't listen to it until it happens.
00:24:57> 00:25:01:	And then it's and then it's but then it's obviously
00:25:01> 00:25:02:	too late. So I.
00:25:02> 00:25:05:	It it does strike me as something that that, that,
00:25:05> 00:25:08:	you know, if we're going to learn anything from what
00:25:08> 00:25:09:	happened in the last 20 years.
00:25:10> 00:25:14:	That we need to take more notice of those signposts.
00:25:14> 00:25:16:	I think we know they're there, but the issue would
00:25:16> 00:25:17:	appear to be urgency.
00:25:20> 00:25:23:	But that and that, and that's the same, you know,
00:25:23> 00:25:25:	I, I know it's a, it's a different crisis, it's
00:25:25> 00:25:28:	a different scale of crisis. It's a potentially vastly bigger
00:25:28> 00:25:29:	one.
00:25:30> 00:25:33:	But but what you're saying is is is flagging the
00:25:33> 00:25:36:	same things that if we look back as historians at
00:25:36> 00:25:39:	what happened before the GFC you know you can see
00:25:40> 00:25:42:	the same points. I mean NASA from a, you know
00:25:42> 00:25:45:	you've got a you've got some views on on from
00:25:45> 00:25:48:	a from a lending perspective do you think.

00:25:49> 00:25:52:	Do you think lenders do you think capital markets are
00:25:52> 00:25:54:	starting to price any of this risk in is it,
00:25:54> 00:25:57:	is it is it even featuring as a consideration?
00:26:00> 00:26:03:	I mean, it's definitely a risk that lenders in the
00:26:03> 00:26:05:	capital markets are cognisant off.
00:26:06> 00:26:09:	I think rather than pricing in that risk.
00:26:10> 00:26:14:	It's more a question of trying to incentivize more sustainability
00:26:14> 00:26:15:	than debt.
00:26:17> 00:26:21:	So you do see a lot of lenders now establish
00:26:21> 00:26:27:	sustainability debt programs where they try to give preferred access
00:26:27> 00:26:32:	to to debt capital for full sustainable loans and they
00:26:32> 00:26:37:	try to offer reduced economics for sustainable debt.
00:26:39> 00:26:42:	Hard to interrupt, but I guess in a sense I
00:26:42> 00:26:45:	think what the point Juliet's making is that.
00:26:47> 00:26:50:	Making sure that going forward buildings are more
	sustainable in
00:26:50> 00:26:53:	terms of their of their carbon footprint for example, is
00:26:53> 00:26:55:	important because if we're going to get on top of
00:26:55> 00:26:57:	this problem, we're going to have to do that, but
00:26:57> 00:26:58:	actually.
00:26:59> 00:27:01:	The risk of of a, of a, of
00:27:01> 00:27:05:	a, of a major climate style event has already arrived.
00:27:05> 00:27:08:	We've, we've, we've allowed the situation to develop to a
00:27:08> 00:27:12:	point where regardless of what we might do with the
00:27:12> 00:27:16:	built environment going forward, we would have to accept that
00:27:16> 00:27:19:	there is an increased risk of a of a sort
00:27:19> 00:27:22:	of a climate driven you know change that that is
00:27:22> 00:27:25:	going to have that impact. Is that fair, Juliet, if
00:27:25> 00:27:26:	I have I.
00:27:29> 00:27:32:	It's not uniform, it's not, it's not all assets, but
00:27:32> 00:27:35:	you know, there were shopping centres in East London that
00:27:35> 00:27:37:	were underwater in August last year, which is a a
00:27:37> 00:27:41:	month that you wouldn't necessarily have expected and you wouldn't
00:27:41> 00:27:43:	necessarily have expected it to be a a shopping centre
00:27:44> 00:27:45:	in East London, so.
00:27:46> 00:27:49:	It it. My point is that it it's it's sudden,
00:27:49> 00:27:53:	it's unexpected, it's random. It's not necessarily where we
	imagine
00:27:53> 00:27:56:	it's going to be, but it also isn't uniform.
00:28:00> 00:28:05:	Right. Well, that's a nice way to start isn't it?

00:28:05> 00:28:08:	But actually I I think it's I think it is
00:28:08> 00:28:12:	highly relevant and I, I, I, I my sense is
00:28:12> 00:28:15:	that we have historically mispriced.
00:28:16> 00:28:20:	Unlikely risks you know in in this game and I
00:28:20> 00:28:23:	I might I I sense we might be heading down
00:28:23> 00:28:27:	the same the same pathway with this but let's let's
00:28:27> 00:28:31:	move to a slightly more positive note I guess in
00:28:31> 00:28:34:	this which is that you know, we now we now
00:28:34> 00:28:39:	own a situation I think where there is widespread acceptance
00:28:39> 00:28:43:	of the need to readapt to reimagine the built environment,
00:28:43> 00:28:47:	certainly certainly in the West, I think that's the case.
00:28:48> 00:28:51:	And that's a that's a combination of things. I mean
00:28:52> 00:28:54:	it's very largely the the sort of the the net
00:28:54> 00:28:58:	zero type gender making buildings greener. But it's also recognizing
00:28:58> 00:29:02:	that we've particularly post pandemic you know we've got changing
00:29:02> 00:29:06:	expectations from people about what they want the built environment
00:29:06> 00:29:09:	to deliver for them, how they want to use it.
00:29:09> 00:29:13:	There's a growing realization as the report shows around the
00:29:13> 00:29:15:	the need for more focus on the US side of
00:29:15> 00:29:17:	the SG that that you know we, we.
00:29:18> 00:29:20:	That we're more cognizant of the impact of the built
00:29:21> 00:29:24:	environments on the on the communities that immediately surround it,
00:29:24> 00:29:27:	et cetera and all of those sorts of things.
00:29:28> 00:29:30:	I mean, actually when you when you look at it,
00:29:31> 00:29:33:	I mean I, I saw a figure the other day
00:29:33> 00:29:37:	that that estimated that the total global value of developed
00:29:37> 00:29:40:	real estate on the planet is something in the order
00:29:40> 00:29:42:	of 300 trillion U.S. dollars.
00:29:43> 00:29:44:	Now.
00:29:45> 00:29:47:	Even if only a portion of that needs to be
00:29:47> 00:29:50:	worked on, in terms of what I've just discussed and
00:29:50> 00:29:53:	expect, it's quite a big portion. I mean, that's a
00:29:53> 00:29:55:	Herculean task by any description.
00:29:57> 00:30:00:	So and a lot of that is going to fall
00:30:00> 00:30:03:	to the real estate industry because that's what we do.
00:30:05> 00:30:08:	So Duncan, do you think the industry is ready for
00:30:09> 00:30:09:	it?
00:30:13> 00:30:16:	Probably not on the balance of odds, I don't think
00:30:17> 00:30:21:	it's really for Juliet point recognize the scale of the

00:30:21> 00:30:24:	issue and as normal you get a degree of denial
00:30:24> 00:30:29:	and then possibly even anger management to cure before you
00:30:29> 00:30:32:	get the solution. So if you just take I mean
00:30:32> 00:30:36:	what what ever got that the partners and most focused
00:30:36> 00:30:36:	on.
00:30:37> 00:30:43:	Is is is stranded brown officers to green officers in
00:30:43> 00:30:47:	in yeah, in good environments, good senses.
00:30:49> 00:30:52:	On average, in the main big levels, they're now in
00:30:52> 00:30:53:	European cities.
00:30:54> 00:30:58:	With the UK being included in the Europe, only about
00:30:59> 00:31:03:	10% to stock actually even meets the basic legal requirements
00:31:04> 00:31:09:	that the local authorities governments are saying as a minimum.
00:31:10> 00:31:12:	In 2027 and then in 2013.
00:31:14> 00:31:17:	Now if you ask the average office owner.
00:31:19> 00:31:22:	Do they have the equivalent of the sinking funds?
00:31:23> 00:31:27:	To pay for that retrofit and improvement and do they
00:31:27> 00:31:30:	have the skill sets to execute it?
00:31:31> 00:31:35:	Do they understand the time scales for that and that
00:31:35> 00:31:40:	it will be physically? There are some exemptions, but it
00:31:40> 00:31:44:	will be illegal to let an office property that doesn't
00:31:44> 00:31:48:	meet those requirements in between 2020 seven 2013.
00:31:50> 00:31:55:	It's interesting that I think increasingly from the other end
00:31:55> 00:31:56:	of the lens.
00:31:57> 00:32:02:	Users, consumers, occupiers are seeing evidence of recognizing that, and
00:32:02> 00:32:06:	that's partly because maybe some of them are being put
00:32:06> 00:32:11:	under some pressure for good pressure. What they've promised to
00:32:11> 00:32:17:	stakeholders, shareholders, their employees, their talents, their customers, their clients
00:32:17> 00:32:20:	is all creating significant pressure.
00:32:21> 00:32:22:	All.
00:32:23> 00:32:26:	The owners to recognize that they need these, they they
00:32:26> 00:32:30:	need to remedy these. But on average we think for
00:32:30> 00:32:35:	good prime offices in London, Paris, Berlin, etcetera, etcetera.
00:32:36> 00:32:40:	The cost of remedial retrofitting, not burning carbon and demolishing
00:32:40> 00:32:44:	it and building a new one. And we know demolishing
00:32:44> 00:32:47:	and rebuilding is equivalent to about 50 years use of
00:32:47> 00:32:48:	that office.

00:32:51> 00:32:53:	It's about 20% of value. There are instances where you
00:32:53> 00:32:56:	can point to it being more. There are instance instances
00:32:56> 00:32:58:	where you can point to it being less.
00:32:59> 00:33:04:	But it respects what's happening in the micro environment
	that
00:33:04> 00:33:05:	means value.
00:33:06> 00:33:11:	Obsolescence of the that and the impact on the value
00:33:11> 00:33:14:	is probably approaching 20% on average.
00:33:15> 00:33:17:	If people take it seriously.
00:33:17> 00:33:21:	Now is that widely recognized node, I'm certain it's not
00:33:21> 00:33:25:	a set of Saturn that year end valuation meetings this
00:33:25> 00:33:28:	year to know it is not being matched. I know
00:33:28> 00:33:31:	there is some, there's a lot of information out there
00:33:31> 00:33:34:	that leads to confusion and some of it is the
00:33:35> 00:33:38:	cost of financing. You know we do debt from NASA
00:33:38> 00:33:41:	will tell us it's going to cost us three times
00:33:41> 00:33:44:	what it would have cost us in the summer if
00:33:44> 00:33:47:	it's possible. Does all all manner of other things.
00:33:47> 00:33:52:	Affecting value but the biggest and most permanent is the
00:33:52> 00:33:57:	need to rectify the carbon footprints and sustainability
	building so
00:33:57> 00:34:00:	it's fit for purpose for the occupiers.
00:34:01> 00:34:04:	And you can then read that across to all the
00:34:04> 00:34:09:	other sectors, especially residential. Many people spend 80%
	of their
00:34:09> 00:34:13:	lives where they sleep and where they work in offices
00:34:13> 00:34:16:	and a residential lot so that they are too acute,
00:34:16> 00:34:20:	acute sectors that are in real need of rectifying recognition
00:34:20> 00:34:24:	and then rectification. So I don't think it is. I
00:34:24> 00:34:27:	think it's coming in a rush. But again to Julia's
00:34:27> 00:34:29:	point, it's here and now.
00:34:30> 00:34:33:	Because if you're an occupier, you're not going to commit
00:34:33> 00:34:36:	even for two or three years, let alone 10 to
00:34:36> 00:34:39:	15 years to occupy a premises that doesn't meet these
00:34:40> 00:34:43:	requirements. Because it's not fair on your staff. It doesn't.
00:34:43> 00:34:47:	It's not fair on your clients and your customers and
00:34:47> 00:34:50:	for for all of those reasons, it's not fair on
00:34:50> 00:34:53:	the environment and and the next generation so.
00:34:54> 00:34:57:	Stop, I don't think it is recognized and that there
00:34:57> 00:35:00:	is still a final thing I'd say on there is
00:35:00> 00:35:04:	there is still witness with several investors that we're meeting,
00:35:04> 00:35:04:	get it?
00:35:05> 00:35:10:	But equally there is a difference between intellectual
55.00.00	24. Squaily thore to a amorotion both confinition octain

acknowledgement of 00:35:10 --> 00:35:11: the issue. 00:35:12 --> 00:35:16: And then you see an in totally different emotional response 00:35:16 --> 00:35:17: to it. 00:35:18 --> 00:35:23: People will say, yes, that's right, Duncan, it'll take 20% 00:35:23 --> 00:35:26: of the value of the office to get it to. 00:35:26 --> 00:35:30: But that's not the case for my office. 00:35:30 --> 00:35:31: No. 00:35:31 --> 00:35:32: And that's the. 00:35:32 --> 00:35:35: Issue. No, no, nobody likes to spend money to stand 00:35:35 --> 00:35:36: still. 00:35:38 --> 00:35:39: I mean NASA. 00:35:41 --> 00:35:44: You know if you take what what Duncan's just said 00:35:44 --> 00:35:48: as as a reasonable estimate of an all and I 00:35:48 --> 00:35:51: think the 20% number is. is. is. is one 00:35:51 --> 00:35:54: I've I've heard before as well. I mean that 00:35:54 --> 00:35:57: implies an enormous investment of capital. 00:35:58 --> 00:36:01: I mean just just putting aside the practicalities of it 00:36:01 --> 00:36:03: not come back to that in a in in a 00:36:03 --> 00:36:06: moment, but but do you think, do you think that 00:36:06 --> 00:36:09: that capital markets in their various forms as they and 00:36:09 --> 00:36:11: debt markets as they, as they look really 00:36:11 --> 00:36:14: do you think that there's anything like? 00:36:15 --> 00:36:18: That amount that that capital available to to finance this. 00:36:20 --> 00:36:20: I think. 00:36:21 --> 00:36:25: I think probably not right now, and it depends. 00:36:26 --> 00:36:29: How that debt is distributed over a number of years 00:36:29 --> 00:36:30: as well, right? 00:36:31 --> 00:36:35: I mean, I think, I think what's interesting, if you 00:36:35 --> 00:36:38: look at the UI survey and you, you look at 00:36:38 --> 00:36:41: where suburban officers rank.

00:36:35 --> 00:36:38: look at the UI survey and you, you look at
00:36:38 --> 00:36:41: where suburban officers rank.
00:36:41 --> 00:36:47: In relation to potential investment performance, they ranked 27th out
00:36:47 --> 00:36:51: of 27th asset assets, right. So I think the market
00:36:51 --> 00:36:55: understands and appreciates the issue and I think the fact
00:36:55 --> 00:36:56: that.
00:36:57 --> 00:37:02: European governments introducing minimum PC requirements or in the process

of doing so, forces both both borrowers and lenders to start tackling the issue. I think one thing that the global financial crisis did for us it it it,

00:37:14 --> 00:37:19: it stressed the importance of having the most diversified form

00:37:19> 00:37:22:	of of of of sources of debt. Right. So
00:37:22> 00:37:25:	we do now benefit from far more diversity in debt
00:37:25> 00:37:27:	than we than we ever have.
00:37:27> 00:37:32:	Across Europe and in recent years most most sort of
00:37:32> 00:37:38:	financings of transitional assets or repositioning of assets in
	particular
00:37:38> 00:37:42:	offices have been funded by debt funds and and debt
00:37:42> 00:37:47:	funds have the requisite risk appetite to fund those sorts
00:37:47> 00:37:52:	of transactions. They are growing in scale and size and
00:37:52> 00:37:56:	and and probably best place to tackle this issue.
00:37:57> 00:38:01:	And hopefully when the capital markets return, we can also
00:38:01> 00:38:04:	tap into CRC Los where where debt funds are able
00:38:04> 00:38:07:	to actually raise additional capital.
00:38:08> 00:38:12:	Charmed beyond the LP capital that they have to try
00:38:12> 00:38:15:	and to try and tackle this issue and there are,
00:38:15> 00:38:18:	there are a number of schemes out there for sustainable
00:38:18> 00:38:22:	debt, but in I mean they're they're tiny in terms
00:38:22> 00:38:25:	of the scale of the problem right now. So, so
00:38:25> 00:38:26:	there's still a lot to do.
00:38:29> 00:38:31:	I mean, Juliet, I I think you've probably done a
00:38:32> 00:38:33:	bit of work looking at the.
00:38:34> 00:38:37:	You know, the reality of, of, of of trying to
00:38:37> 00:38:41:	execute this, this change. I mean maybe you're assuming that
00:38:41> 00:38:45:	we've got the money and and that's not clear either,
00:38:45> 00:38:48:	is it? Is it actually possible to be done in
00:38:48> 00:38:50:	any sort of reasonable time frame?
00:38:51> 00:38:53:	Yeah, it is. I just want if I answer that
00:38:53> 00:38:55:	in a second, I want to go back to your
00:38:56> 00:38:59:	previous question. Your previous question related to social value and
00:38:59> 00:39:02:	and I'm not entirely sure that we answered the social
00:39:02> 00:39:05:	value aspect of the conversation. So if if you're willing,
00:39:05> 00:39:08:	I'm just spend a second, please do. Is it possible
00:39:08> 00:39:11:	because it forms part of it? Is it possible conversation?
00:39:11> 00:39:14:	Yeah. Social value reporting is is one of the harder
00:39:14> 00:39:16:	aspects to measure. So the reason, the reason why we're
00:39:17> 00:39:19:	all talking about SG is because you know, going back
00:39:19> 00:39:21:	to 20 years it was CSR, Now it's SG.
00:39:21> 00:39:25:	And there are rumblings of conversations around the world.
	l've
00:39:25> 00:39:28:	just come back from America where people are saying is
00:39:28> 00:39:29:	it even going to be SG or is it gonna

00:39:30> 00:39:32:	because consthing also wight Co there there's kind of a
00:39:30> 00:39:32:	become something else, right. So there there's kind of a mood out there that it isn't here to stay. I
00:39:35> 00:39:37:	would, I was also at COP 27. And I can
00:39:37> 00:39:40:	,
	absolutely tell you that having looked at things like Mark
00:39:40> 00:39:43:	Carney, G fans initiative and what's going on across, you
00:39:43> 00:39:46:	know, European changes in regulation and North American changes in
00:39:47> 00:39:49:	regulation in terms of financial disclosure.
00:39:49> 00:39:52:	The the way in which investors are assessing projects is
00:39:52> 00:39:55:	changing. And of course it's on Capitol Valley, but it's
00:39:55> 00:39:59:	also on environmental and social impact. Environmental we know we
00:39:59> 00:40:02:	can measure the greenhouse gases, we can measure the embodied
00:40:02> 00:40:05:	and operational carbon. We can look at air quality. So
00:40:05> 00:40:06:	the E is quite measurable.
00:40:07> 00:40:09:	The US is a little bit harder because the US
00:40:09> 00:40:11:	has been used as a kind of shorthand for the
00:40:11> 00:40:14:	people in the building. Is it, is it well, has
00:40:14> 00:40:16:	it got good air quality? Does it encourage health and
00:40:16> 00:40:19:	Wellness and fitness and and all those good things that
00:40:19> 00:40:22:	happen inside the building. The shift now seems to be
00:40:22> 00:40:24:	and this is where the change in mindset and is
00:40:24> 00:40:27:	it achievable comes from. How do I demonstrate that this
00:40:27> 00:40:29:	asset is contributing to the community around it in a
00:40:29> 00:40:33:	way that's transparent and measurable? And there's a few ways
00:40:33> 00:40:35:	of doing that. One is you can you can apply
00:40:35> 00:40:37:	an economic metric to it. The other is.
00:40:37> 00:40:39:	You can do it in in softer ways, but is
00:40:39> 00:40:43:	it things like access to jobs, access to community space,
00:40:43> 00:40:46:	access to, you know, social funds or charitable funds that
00:40:46> 00:40:50:	are distributed in that local area? Did it improve air
00:40:50> 00:40:53:	quality in a climate event? Can the Community access call
00:40:53> 00:40:56:	for heat or or safe spaces? Is it designed for
00:40:56> 00:41:01:	equity, inclusion, diversity, mobility issues? So there's a whole range
00:41:01> 00:41:04:	of ways that an asset manager, investor, developer, owner and
00:41:04> 00:41:08:	operator can look at contributing to the community.
00:41:08> 00:41:11:	It's beyond just the users of the building, which brings
00:41:11> 00:41:12:	us to how do we do that?
00:41:13> 00:41:15:	We if you take a hierarchy we we we worked

00:41:15> 00:41:17:	a thing called a 10 point plan for a net
00:41:17> 00:41:20:	zero building. So you you basically say right can I
00:41:20> 00:41:23:	retain a building step one, use what you've got, don't
00:41:23> 00:41:26:	knock it down, don't start new unless you absolutely have
00:41:26> 00:41:29:	to. So the first hurdle is can I retain it
00:41:29> 00:41:32:	and refurbish it. If you look at what's happened less
00:41:32> 00:41:34:	in the UK but but you know one of the
00:41:34> 00:41:37:	things that I think we're at risk of missing in
00:41:37> 00:41:40:	this conversation is that post pandemic working has changed and
00:41:40> 00:41:43:	so occupancy of offices and density of occupancy of your
00:41:43> 00:41:44:	offices and usage.
00:41:44> 00:41:47:	Has changed. We don't entirely know what that looks like
00:41:47> 00:41:50:	yet, but we do know it means hybrid working, and
00:41:50> 00:41:53:	it means that the potential to convert office to residential
00:41:53> 00:41:56:	within city centres to recover value is something that we're
00:41:56> 00:41:59:	collectively going to have to look at. And that has
00:41:59> 00:42:02:	a planning implication. It has a value implication, it has
00:42:02> 00:42:05:	a social usage implication, it reactivates streets. It does all
00:42:05> 00:42:08:	of those things. So can we refurbish it? Can we
00:42:08> 00:42:10:	mix use within the building and do that in a
00:42:10> 00:42:13:	way that that stacks up from a capital perspective? How
00:42:13> 00:42:15:	do we do that with the lowest?
00:42:15> 00:42:18:	Embodied carbon possible with it, you know.
00:42:20> 00:42:23:	A friendly concrete recycled steel biomaterials on fit out. How
00:42:23> 00:42:25:	do you get the life cycle carbon analysis on that
00:42:25> 00:42:28:	building down as low as it can possibly be because
00:42:28> 00:42:31:	that becomes the investable proposition and how do you dial
00:42:31> 00:42:33:	up the social impact to the people outside of the
00:42:33> 00:42:36:	building and inside the building and do there were things
00:42:36> 00:42:39:	that you know we're talking about net zero conversation other
00:42:39> 00:42:42:	people are talking about regenerative. So there there is I
00:42:42> 00:42:46:	think there's a movement in language that's happening in these
00:42:46> 00:42:49:	conversations that I've got clients asking for nature based solutions
00:42:49> 00:42:50:	biodiversity and.
00:42:50> 00:42:54:	Again designing with nature. And so this isn't about how
00:42:54> 00:42:57:	do I decarbonise the world's worth of trillions of dollars
00:42:57> 00:43:00:	of of standing built stock this is how do I
00:43:00> 00:43:03:	design that with nature in a way that creates equity
00:43:03> 00:43:05:	for humans planet and.
00:43:05> 00:43:05:	Asset.

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00:43:07 --> 00:43:08:
                          Long answer.
00:43:09 --> 00:43:11:
                          No, look I think that's.
00:43:12 --> 00:43:15:
                          I think that's going to be right. You know, it's
00:43:15 --> 00:43:17:
                          got to be the direction that that this goes in.
00:43:17 --> 00:43:20:
                          I suppose the, the, the sort of the very practical
00:43:20 --> 00:43:22:
                          issue though here also is you can do all of
00:43:22 --> 00:43:25:
                          that. You can, you can do all that thinking, you
00:43:25 --> 00:43:27:
                          can do all that planning, you know, you can come
00:43:27 --> 00:43:28:
                          up with those solutions.
00:43:29 --> 00:43:31:
                          But you know, in an environment where.
00:43:32 --> 00:43:35:
                          Put bluntly it's you know, you're lucky if you can
00:43:35 --> 00:43:38:
                          get a plumber to come to your house to fix
00:43:38 --> 00:43:40:
                          your boiler, you know in the in in sort of
00:43:40 --> 00:43:42:
                          a A3 to four week. I mean my, my concern
00:43:42 --> 00:43:45:
                          would be that that the construction industry and I think
00:43:45 --> 00:43:48:
                          we've got to view the construction industry as part of
00:43:48 --> 00:43:51:
                          the conversation here. You know, it's got a huge job
00:43:51 --> 00:43:54:
                          in front of it in terms of scaling itself up
00:43:54 --> 00:43:55:
                          to actually deliver.
00:43:56 --> 00:43:59:
                          You know those those outcomes I think.
00:43:59 --> 00:44:02:
                          Um, I mean look. All of which I think leads
00:44:02 --> 00:44:05:
                          me to to some of my next point here,
00:44:05 --> 00:44:06:
                          which is that?
00:44:07 --> 00:44:11:
                          You know, we're all, I think, in agreement that there's
00:44:11 --> 00:44:14:
                          huge challenges in front of us here on the built
00:44:14 --> 00:44:18:
                          environment that the real estate industry, you know, is, is
00:44:18 --> 00:44:21:
                          bound to to be, you know, a sort of leader
00:44:21 --> 00:44:24:
                          in all of this, but I'm not sure that.
00:44:25 --> 00:44:27:
                          Well, I think one of the things that real estate
00:44:27 --> 00:44:30:
                          is you're going to have to think about here is
00:44:30 --> 00:44:32:
                          how it positions itself in society.
00:44:33 --> 00:44:36:
                          You know what it's brand is and and the the
00:44:36 --> 00:44:40:
                          degree to which it can, it can get positive support
00:44:40 --> 00:44:45:
                          from society, from governments et cetera. You know on, on
00:44:45 --> 00:44:48:
                          this journey because my my feeling is that you know
00:44:49 --> 00:44:52:
                          we're starting from a not very good place on that.
00:44:52 --> 00:44:53:
                          Front.
00:44:55 --> 00:44:58:
                          You know that, that, that for all that.
00:44:59 --> 00:45:02:
                          Everybody on the planet, except a few people, hermits living
00:45:02 --> 00:45:06:
                          in caves somewhere, you know, interacts with the built
                          environment
00:45:06 --> 00:45:07:
                          every day.
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00:45:08> 00:45:12: 00:45:12> 00:45:15: 00:45:15> 00:45:18: 00:45:18> 00:45:21: 00:45:21> 00:45:24: 00:45:24> 00:45:27:	But has no real conception of who built that building, who owns that building, you know what was the process that led to its, it's its creation et cetera in a way that you know, they would have different views I guess in terms of the car that they drive or the, you know the food that they eat et
00:45:27> 00:45:30:	cetera. These industries have been I think much better you
00:45:30> 00:45:34:	know at at at sort of positioning themselves. I mean
00:45:34> 00:45:36:	is that something that you think?
00:45:38> 00:45:41:	That the industry needs to fix.
00:45:43> 00:45:46:	It it it it's brand and its reputation with the
00:45:46> 00:45:49:	with the public at large and and with governments in
00:45:49> 00:45:50:	particular.
00:45:52> 00:45:52:	Duncan.
00:45:54> 00:45:55:	Probably.
00:45:56> 00:46:00:	So I think it's very difficult to to be generous,
00:46:00> 00:46:04:	but I think there is some significant improvement and there
00:46:04> 00:46:08:	is a a real awareness and acknowledgement that if the
00:46:08> 00:46:11:	built in Brown alone towns and cities are depending on
00:46:11> 00:46:15:	which numbers you use and the various 40 to 50%
00:46:15> 00:46:15:	of the.
00:46:16> 00:46:20:	Carbon footprints, you've got to start there and that affects
00:46:21> 00:46:23:	the industry and everybody working in it.
00:46:25> 00:46:28:	I think the questions that that you need to ask
00:46:28> 00:46:32:	yourself that make that easier is, is this is sort
00:46:32> 00:46:35:	of basic sort of business MBA stuff, but it's very
00:46:35> 00:46:39:	applicable to the real estate industry that people start with
00:46:39> 00:46:41:	what they do and what it is and what the
00:46:41> 00:46:44:	product is and what the building is.
00:46:45> 00:46:49:	If you start with why you're doing it, and then
00:46:49> 00:46:53:	how are you doing it? The right what or the
00:46:53> 00:46:58:	right product comes out and there are many really strong,
00:46:58> 00:47:03:	almost eternal, but really strong brands who produce very good
00:47:03> 00:47:05:	goods and services.
00:47:06> 00:47:11:	That may only be marginally better than competition, but people
00:47:11> 00:47:16:	buy them because that entity articulates why it's doing it.
00:47:17> 00:47:20:	A guide for real estate is is you know there
00:47:20> 00:47:23:	there is a win, win. But why you're doing, why
00:47:23> 00:47:27:	you're developing, why you're investing, why you're retrofitting if the
00:47:27> 00:47:31:	answer can be that to improve the working environment or

00:47:31> 00:47:33:	to improve the built environment.
00:47:34> 00:47:35:	Umm.
00:47:36> 00:47:38:	How you go about that and what you end up
00:47:38> 00:47:41:	with can be a win. Win. It doesn't mean to
00:47:41> 00:47:44:	be to to depress with two hands. And we
00:47:44> 00:47:47:	all know it will. It will ultimately improve returns because
00:47:47> 00:47:48:	you'll make.
00:47:49> 00:47:52:	And problems that people want to occupy and have a
00:47:52> 00:47:56:	higher value as a consequences, basic fundamentals, this yield thing
00:47:56> 00:48:00:	goes up and down. We've all got very little control
00:48:00> 00:48:03:	and influence over that. We've got lots of control and
00:48:03> 00:48:08:	influence over creating the best environment possible, which makes more
00:48:08> 00:48:12:	people want to occupy our investments than other people's, which
00:48:12> 00:48:14:	makes them more viable. So I think that is a
00:48:15> 00:48:17:	way of trying to deal with the the stigma of
00:48:17> 00:48:18:	the industry.
00:48:19> 00:48:21:	On there, I don't really want to mention them, but
00:48:21> 00:48:24:	there are one or two brands that have different their
00:48:24> 00:48:26:	vote strong emotions but Apple for example.
00:48:27> 00:48:30:	Do explain very well why they're doing it and the
00:48:30> 00:48:33:	way they're doing it in style and and actually
00:48:33> 00:48:37:	I would argue I'm sure people in Apple would dispute
00:48:37> 00:48:40:	this that the, the, the maybe even how they
00:48:40> 00:48:43:	are producing it and what what their product is, it
00:48:43> 00:48:47:	might look a bit better. It's very subjective. There's not
00:48:47> 00:48:50:	demonstrably different to a Hewlett Packard like a laptop for
00:48:51> 00:48:54:	example. So what is the difference? Well maybe you could
00:48:54> 00:48:57:	argue customers and users are using Apple because of.
00:48:58> 00:49:01:	Why they say they're in business, and I think that
00:49:01> 00:49:05:	we could probably learn something by way of one example
00:49:05> 00:49:08:	from that from how we approach the real estate industry
00:49:08> 00:49:09:	going forwards.
00:49:10> 00:49:13:	But it does seem to me that that you know,
00:49:13> 00:49:18:	you can draw a parallel with the development of vaccines
00:49:18> 00:49:20:	for in the in the pandemic.
00:49:21> 00:49:24:	You know the, the, the governments had the the
00:49:24> 00:49:26:	money and the will and and the you know the
00:49:26> 00:49:29:	the the various drug companies had the the sort of
00:49:29> 00:49:32:	the skills and the ideas that they developed and and
00:49:32> 00:49:35:	sort of one got behind the other to sort of

00:49:35> 00:49:38:	drive that forward. I mean you you'd like to think
00:49:38> 00:49:41:	would that there was the potential for similar sorts of
00:49:41> 00:49:45:	arrangements you know between governments and the industry to find
00:49:45> 00:49:48:	solutions to various problems that Juliet was.
00:49:49> 00:49:52:	Was was outlining, but I mean I, you know my,
00:49:52> 00:49:55:	my somewhat jaundiced view of what went on in the
00:49:55> 00:49:58:	pandemic was was that the, you know, the real estate
00:49:58> 00:50:01:	industry was just sort of lent on to you know
00:50:01> 00:50:04:	to support its its client base and was probably the
00:50:04> 00:50:08:	only industry that didn't get you know direct financial support
00:50:08> 00:50:11:	from the government for doing that. But I mean Juliet,
00:50:11> 00:50:14:	what, what what's your thoughts there?
00:50:16> 00:50:17:	ľm.
00:50:19> 00:50:19:	I think.
00:50:20> 00:50:23:	Brand value is built on trust and the real estate
00:50:23> 00:50:25:	industry, we didn't use the word faceless but I think
00:50:25> 00:50:28:	I think you were sort of touching at it, but
00:50:28> 00:50:31:	there isn't a good understanding of who owns operates assets
00:50:31> 00:50:34:	and there's also a perception that it's incredibly wealthy. So
00:50:35> 00:50:37:	whilst whilst there may be a perception that it was
00:50:37> 00:50:41:	an under supported industry in the pandemic, I think there's
00:50:41> 00:50:43:	a lot of people that would have really struggled with
00:50:43> 00:50:47:	the idea that landlords and reeds were receiving financial help
00:50:47> 00:50:49:	during that environment and so.
00:50:50> 00:50:53:	Taking this out of a conversation about privilege or or
00:50:53> 00:50:57:	relative wealth and asking the question, what's a customer gonna
00:50:57> 00:51:00:	look to us to produce? They're going to look to
00:51:00> 00:51:05:	us to produce social equity and environmental outcomes, because that's
00:51:05> 00:51:07:	what they're now reporting on so.
00:51:08> 00:51:10:	I don't. I don't see.
00:51:11> 00:51:14:	They're kind of you know industry I've I've just been
00:51:14> 00:51:18:	at cop companies were kept away from governments whilst agreements
00:51:19> 00:51:22:	were being made and yet capital lives within companies and
00:51:22> 00:51:26:	companies can make decisions and deploy capital to to get
00:51:26> 00:51:29:	on board with an agenda and and so often the
00:51:29> 00:51:33:	conversation is government ought to legislate for this mandate it

00:51:33> 00:51:34:	make me do it.
00:51:35> 00:51:39:	And and yet the the the capacity to actually
00:51:39> 00:51:42:	deal with things lives in the boardrooms and it lives
00:51:42> 00:51:46:	on the annual reports and it lives within the in
00:51:46> 00:51:50:	the sustainability reports. So maybe that's a long way of
00:51:50> 00:51:54:	saying I'm not sure that we necessarily deserved the pandemic
00:51:54> 00:51:57:	style cooperation to to fix the big COVID problem. I
00:51:57> 00:52:00:	think the onus sits on us as an industry. It
00:52:00> 00:52:04:	was, it was made very personal to me. Someone said
00:52:04> 00:52:05:	if if 40% of emissions.
00:52:06> 00:52:09:	Are leading to 40% of climate deaths or climate migrants.
00:52:09> 00:52:11:	That's four in 10 belong to ulot.
00:52:12> 00:52:15:	And and then it gets real, right. So I don't
00:52:15> 00:52:18:	need government to tell me that we should get on
00:52:18> 00:52:21:	with it. It's abundantly clear that we should get on
00:52:21> 00:52:23:	with it and and the capital to do that and
00:52:23> 00:52:26:	the will to do that and the ability to execute
00:52:26> 00:52:28:	against that, loosen the boardrooms.
00:52:31> 00:52:33:	Yeah, although, although I I.
00:52:35> 00:52:38:	My sense is that that the scale of this problem
00:52:38> 00:52:41:	is, is going to be such that it's not going
00:52:41> 00:52:44:	to be enough that the real estate industry by itself
00:52:44> 00:52:47:	thinks it needs to get on with it. You know
00:52:47> 00:52:50:	it. It's it's going to need, it's going to need
00:52:50> 00:52:52:	all the help it can get.
00:52:53> 00:52:55:	It shouldn't wait for government to.
00:52:55> 00:52:57:	Mandate no agreed but but it's not going to get
00:52:57> 00:53:01:	help with the reputation that it's currently got which goes
00:53:01> 00:53:03:	back to your point about trust I think so I
00:53:03> 00:53:05:	you know I just feel that that's a that's a
00:53:06> 00:53:07:	that's a major issue coming to.
00:53:09> 00:53:11:	A question has come up on the Q&A which I
00:53:11> 00:53:14:	think sort of leads us neatly in into the the.
00:53:14> 00:53:16:	The next part of this is.
00:53:17> 00:53:20:	Does the industry have the skill set currently to retrofit
00:53:20> 00:53:23:	the existing old stock and if not what can we
00:53:23> 00:53:25:	do to to bridge the skill gap. I mean I
00:53:25> 00:53:28:	think the I'd like to sort of broaden that out
00:53:28> 00:53:31:	a little bit because I think at the beginning of
00:53:31> 00:53:34:	all this Duncan was talking about you know the the
00:53:34> 00:53:36:	sort of the move towards.

00:53:37> 00:53:40:	More sort of operationalised version of of of Real
00:53:41> 00:53:44:	Estate, you know and and more a more value
00:53:44> 00:53:46:	add by what we what we do with it and
00:53:46> 00:53:49:	I'm I'm just interested in in what we think this
00:53:49> 00:53:51:	means in terms of.
00:53:52> 00:53:53:	What a.
00:53:53> 00:53:56:	What are real estate investment management, if I can describe
00:53:56> 00:53:59:	it that way, organization is going to look like going
00:53:59> 00:54:00:	forward.
00:54:00> 00:54:01:	You know the.
00:54:02> 00:54:05:	The sorts of people and the sorts of skills that
00:54:05> 00:54:09:	have traditionally been in it, you know, and and and
00:54:09> 00:54:12:	and what we think that's going to look like going
00:54:12> 00:54:12:	forward.
00:54:14> 00:54:17:	I mean NASA you've you know Brooklyn's is is is,
00:54:17> 00:54:21:	is, is, is relatively new in the in the special
00:54:21> 00:54:23:	case but what's your thoughts on that.
00:54:26> 00:54:26:	So.
00:54:28> 00:54:30:	I think what I'd say is probably since around 2015,
00:54:31> 00:54:34:	the vast majority of our business has been on alternative
00:54:34> 00:54:34:	assets and and.
00:54:35> 00:54:38:	The vast majority of those have involved operating assets.
00:54:39> 00:54:43:	So there's been a a dramatic shift mainly mainly driven
00:54:43> 00:54:46:	by the fact that that interest rates were so low
00:54:46> 00:54:49:	and there was so much equity in the market and
00:54:50> 00:54:54:	investors chasing returns had to look at alternative asset classes.
00:54:54> 00:54:59:	So there's been there's been this dramatic shift to alternative
00:54:59> 00:55:03:	assets and and alternative assets in specialized industries and those
00:55:04> 00:55:08:	industries involved a lot more operating operating risk, right.
00:55:08> 00:55:13:	And in taking that that operating risk you move away
00:55:13> 00:55:18:	from the traditional asset manager, property manager model and it's
00:55:18> 00:55:23:	and it's much more sort of service service orientated. You
00:55:23> 00:55:27:	move away from long term contracted lease income and you
00:55:27> 00:55:32:	move towards and assessing whether an operating business can create
00:55:33> 00:55:39:	secure and sustainable income through through shorter term contracts etcetera.
00:55:39> 00:55:43:	And therefore it becomes more of a service, they become
00:55:43> 00:55:48:	more service LED businesses, which means that the focus

then 00:55:48 --> 00:55:52: shifts more towards you know, customer service guest. 00:55:53 --> 00:55:58: Guest relations brand how you brand the management team becomes 00:55:58 --> 00:56:01: much, much more fundamental. 00:56:02 --> 00:56:05: To, to, to, you know, to to the online business. 00:56:06 --> 00:56:07: And and and. 00:56:08 --> 00:56:11: Instead of outsourcing a lot of services, many real estate 00:56:11 --> 00:56:16: investors end up providing those services themselves. Repair, Maintenance FM, 00:56:16 --> 00:56:17: they may provide utilities. 00:56:19 --> 00:56:22: Etcetera. So, so, so, so, so. 00:56:23 --> 00:56:24: The nature of. 00:56:25 --> 00:56:28: Really say teams is is changing and and the way 00:56:28 --> 00:56:31: in which lenders have to underwrite that risk is that 00:56:31 --> 00:56:34: has as fundamentally changed. But we do benefit from the 00:56:34 --> 00:56:37: fact that we we do not have very diverse sources 00:56:37 --> 00:56:39: of debt and a lot of that debt is also 00:56:40 --> 00:56:43: financed through the leverage finance market and the corporate bond 00:56:43 --> 00:56:46: markets. You know a lot of rats actually raise their 00:56:46 --> 00:56:50: capital not through, not through state finance but actually through 00:56:50 --> 00:56:54: the corporate bond markets. So there are there's an abundance 00:56:54 --> 00:56:55: in terms of supply. 00:56:55 --> 00:56:59: Dead capital to fund that type of operating risk. And 00:56:59 --> 00:57:03: depending on where real estate value falls out, it either 00:57:03 --> 00:57:06: says in the real estate finance markets or it goes 00:57:06 --> 00:57:08: into the leveraged finance market. 00:57:10 --> 00:57:14: Yeah, OK. I mean Duncan, you know you, you you've 00:57:14 --> 00:57:17: recently moved, moved organizations and and I guess this 00:57:18 --> 00:57:21: would be something that you'll be thinking about I mean. 00:57:24 --> 00:57:26: We must be looking, must we at at, at, at 00:57:26 --> 00:57:28: a, at a, at a very different sort of landscape 00:57:28 --> 00:57:30: in terms of the people that you would have working 00:57:30 --> 00:57:32: for you going forward, I would imagine. 00:57:33 --> 00:57:33: Yeah.

 00:57:34 --> 00:57:34:
 Yes.

 00:57:36 --> 00:57:38:
 Well, I mean, there are.

 00:57:39 --> 00:57:42:
 The old way of being a fund manager and being the capital allocator.

00:57:44> 00:57:45:	Is probably over.
00:57:47> 00:57:50:	I do. About Capital Partners, we've got a, we would
00:57:50> 00:57:54:	call in jargon an integrated team. So there are people
00:57:54> 00:57:59:	like me who come from traditional investment backgrounds,
	they're asset
00:57:59> 00:58:04:	managers, was development skills, was development
	management skills, was leasing
00:58:04> 00:58:07:	skills and it's totally integrated and that.
00:58:08> 00:58:12:	I believe leads to better outcomes for the occupiers because
00:58:12> 00:58:16:	you're in more you're in control of the various constituent
00:58:16> 00:58:20:	parts that have value, whether you want a green outcome
00:58:20> 00:58:24:	or you're focusing on the social outcome and the amenities.
00:58:25> 00:58:28:	And I think that's really important to have that understanding
00:58:28> 00:58:31:	you can't do everything for everybody and hence that's why
00:58:31> 00:58:33:	you know at the moment we're we're very focused in
00:58:34> 00:58:36:	Brown to green officers and making sure that happens, but
00:58:36> 00:58:37:	I don't think.
00:58:38> 00:58:41:	We use best in class. We we we use we
00:58:41> 00:58:42:	use best in class.
00:58:44> 00:58:48:	Consultants and advisers, but I mean we're a very diverse
00:58:48> 00:58:52:	group. There are five senior people in it, three of
00:58:52> 00:58:56:	them are women. I'm the only, they're Englishman in the
00:58:56> 00:58:59:	company, but we're based in London. So it's quite an
00:59:00> 00:59:03:	interesting, a lot of things go into being.
00:59:03> 00:59:09:	And having that totally integrated service and it's not diversity
00:59:09> 00:59:13:	for the sake of it, it's different skill sets. Yes.
00:59:13> 00:59:16:	Yeah, yeah. It leads to in our case, a lot
00:59:17> 00:59:20:	of diversity in in both in terms of of.
00:59:21> 00:59:24:	Male and female ratios, but in terms of other, in
00:59:24> 00:59:28:	terms of skill sets and backgrounds whether something comes through
00:59:28> 00:59:32:	development background or something comes from finance
00.50.22 > 00.50.26.	structuring background or
00:59:33> 00:59:36:	an investment background or as I said leasing and actually
00:59:36> 00:59:39:	into into into dealing with with with the occupiers. And
00:59:39> 00:59:42:	all of that is because the design and procurement of
00:59:42> 00:59:45:	buildings to add most value has to be different for
00:59:45> 00:59:49:	the reasons we've been discussing here for reduction of carbon.
00:59:49> 00:59:53:	Etcetera, but also then how you procure the services. I
00:59:53> 00:59:56:	sit on a board with another company, very well known
00:59:56> 01:00:00:	office reads who are flexible office operator and you learn
01:00:00> 01:00:04:	so much from dealing with these these world class

	professionals
01:00:04> 01:00:07:	and we've learned you know data that you can have
01:00:07> 01:00:11:	in your offices from having a smart building and the
01:00:11> 01:00:14:	efficiency of use it. Yes, it reduces carbon and power
01:00:14> 01:00:17:	usage but actually it also leads to a much better
01:00:17> 01:00:20:	service and it's not rocket science.
01:00:20> 01:00:23:	Yeah, some sectors hospitals have been doing it for 20
01:00:23> 01:00:27:	years. They know where there's empty hospital bed. Why don't
01:00:27> 01:00:31:	you know where there's empty workstation or free or or
01:00:31> 01:00:33:	or or a free office for meeting space or a
01:00:33> 01:00:37:	free amenity that's available now by the minute. Why don't
01:00:37> 01:00:40:	you have the monitors in in you should have and
01:00:40> 01:00:44:	it leads also to very good outcomes for the environment
01:00:44> 01:00:47:	because you don't air condition and heat and light and
01:00:47> 01:00:49:	office that's not been used.
01:00:50> 01:00:53:	Because you know it's not being used and within reason
01:00:54> 01:00:58:	you can really have an intelligent building management system. So
01:00:58> 01:01:01:	yes the the short answer is the investment managers of
01:01:02> 01:01:05:	the model or people like him without the partners which
01:01:05> 01:01:08:	are founded all of 11 months ago, is you have
01:01:08> 01:01:12:	to be vertically integrated. You have to have those skill
01:01:12> 01:01:16:	sets that provide a good service, the totalization as people
01:01:16> 01:01:20:	call it real estate, but you also need those building.
01:01:20> 01:01:22:	Operate and to make your buildings world class and everything
01:01:22> 01:01:24:	that that means part of the service.
01:01:25> 01:01:28:	OK. Well that's, that's probably kind of where we started
01:01:28> 01:01:30:	and probably a good place to to to sort of
01:01:30> 01:01:33:	finish as well because I mean sadly we have run
01:01:33> 01:01:34:	out of time.
01:01:35> 01:01:39:	If I could just thank the panelists, Juliette Duncan, NASA
01:01:39> 01:01:42:	for your for your time and for your for your
01:01:42> 01:01:44:	comments and insights.
01:01:46> 01:01:48:	And I think there is a.
01:01:49> 01:01:52:	Here we go, another slide. Yep, we we absolutely at
01:01:52> 01:01:56:	the URL. I would value your feedback in terms of
01:01:56> 01:01:59:	all this. So there's a there's a poll that you
01:01:59> 01:02:02:	can that you can answer. It would be. It would
01:02:02> 01:02:04:	be great to have that feedback.
01:02:05> 01:02:10:	And I believe there is another slide coming up which
01:02:10> 01:02:13:	is going to show a number of events that will

01:02:13 --> 01:02:17: be available through the UI in the future.
01:02:18 --> 01:02:21: So with that, I will, I will thank you again to the to the panelists and thank you all for joining us. Goodbye.

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