Climate-adaptive Design Studio Hudson Valley Regional LookBook
June 20, 2024
Hudson River Estuary Program
Conservation and Land Use Webinar Series
1 "Neil Bettez" (74586112)
00:00:19.194 --> 00:00:35.300
Ready to get started. Okay, so just hit start meeting. It's already done. Okay. And all right. So just start introducing.

2 "Ingrid Haeckel" (73950464)
00:00:35.300 --> 00:00:36.477
Yeah, go ahead.

3 "Neil Bettez" (74586112)
00:00:36.477 --> 00:00:53.900
Good afternoon everyone my name is Neil Bettez. I'm the climate resilience program coordinator for the DEC Hudson River program. I'd like to thank you for joining us for today's webinar about the climate adaptive design studio and the Hudson.

4 "Neil Bettez" (74586112)
00:00:53.900 --> 00:01:11.340
Valley regional lookbook. We will have time at the end of the webinar for questions, but feel free to enter those into the chat as we go along

5 "Neil Bettez" (74586112)
00:01:11.340 --> 00:01:27.690
For those of you have may be new to Webex if you're having any difficult with the audio connection, through your computer, you can switch to the audio by clicking on the 3 dots next to the red exit button at the bottom of the screen.

6 "Neil Bettez" (74586112)
00:01:27.690 --> 00:01:42.780
There you'll find options to request a call back or to call in by phone. And just so everyone is aware your phone lines are muted. So if you need help or having any technical issues, please reach out to us via the chat icon.

7 "Neil Bettez" (74586112)
00:01:42.780 --> 00:01:58.410
In the bottom, right corner of the screen, you can also use the chat questions to submit questions for the speakers as well. And at the end, we're going to have a Q and a. Also, this webinar is being recorded and we'll notify you when the recording is available.

8 "Neil Bettez" (74586112)
00:01:58.410 --> 00:02:13.830
It will be posted at the posted the Hudson River program's grant page along with several other webinars that we have recently given about diversity, vernal pools, climate change, et cetera.

9 "Neil Bettez" (74586112)
00:02:13.830 --> 00:02:33.090
So before we get started, I just wanted to give some background on the Hudson River Estuary program, our goal is to help people conserve and restore and enjoy the Hudson River. We work with municipalities, bordering the tidal Hudson and tributaries in order to achieve many benefits including.

10 "Neil Bettez" (74586112)
00:02:33.090 --> 00:02:49.260
Fish, wildlife, habitat, restoration, clean, water, healthy streams, conserve natural areas. I work a lot of climate adaptation, but we also do education and a big goal of ours is to increase access to the river.

11 "Neil Bettez" (74586112)
00:02:49.260 --> 00:03:09.270
And so our success relies on numerous partnerships, and in addition to grants, we also offer a variety of outreach and technical assistance. We fund research and restoration projects. And this an example of 2 grants we recently awarded 1 to the town of.

12 "Neil Bettez" (74586112)
00:03:09.270 --> 00:03:26.160
Bethlehem, and went to the city of Hudson, so, for climate adaptive design, which we're going to be talking more about today. Also, I just wanted to let everyone know that we have some

13 "Neil Bettez" (74586112)
00:03:26.160 --> 00:03:46.160
Request for applications open right now. We're going to be awarding 750,000 dollars for a couple of different categories, creating climate, vulnerability assessments, adaptation plans, things like that. We also do watershed based stewardship, planning, capacity, building the deadline.

14 "Neil Bettez" (74586112)
00:03:46.160 --> 00:04:05.220
for these is july seventeen at three pm i also wanted to mention the climate smart communities grant program around eight they're offering twenty two point five million and so it's a lot more than we do but they have a couple of different categories they're somewhat related but they also do more adaptation so theirs are broken down

15 "Neil Bettez" (74586112)
00:04:05.220 --> 00:04:23.460
Into 2 different categories, there's the implementation and the certification so the certification, you might be familiar with the climate smart communities, but the implementation, is greenhouse gas mitigation, but then there's also a climate adaptation and

16 "Neil Bettez" (74586112)
00:04:23.460 --> 00:04:41.459
They're eligible adaptation projects, include projects, designed to provide a meaningful reduction in risk to residents infrastructure and our natural resources and some of those projects include construction of living shorelines and other nature based landscape features. So, I wanted to point that out to people.

17 "Neil Bettez" (74586112)
00:04:41.459 --> 00:04:58.289
And then, finally, if you have any questions, you can reach out to myself or Jesenia Laureano.She's the climate adaptation planning specialist. And with that, I would like to introduce.

18 "Neil Bettez" (74586112)
00:04:58.289 --> 00:05:16.589
Our 2 speakers today so, Josh Cerra is an associate professor and chair of Cornell landscape architecture and the principal investigator of the climate adaptive design studios program. He is teaching and research, investigate relationships between urban ecosystems, communities and site development processes.

19 "Neil Bettez" (74586112)
00:05:16.589 --> 00:05:36.589
And the implementation for climate adaptive design and urban ecological design. His studio based efforts have received recognition from ASLA, CELA, and Cornell. And then Liz LoGiudice, she's an educator and communication specialist who has been working.

20 "Neil Bettez" (74586112)
00:05:36.589 --> 00:05:56.339

On water resources issues in the Hudson Valley for over 20 years. She holds an MS. in environmental Communications has a background in working for government agencies and nonprofit organizations, and is currently principal of the firm resilience, communications and consulting LLC. So that's all I have. And I'll hand it over to you.

21 "Josh Cerra" (3029181952)
00:06:15.478 --> 00:06:30.517
Thank you for the introduction, Neil, my name is Josh Cerra. I am associate professor over at Cornell University department of landscape architecture, and Liz?

22 "Elizabeth LoGiudice" (663347712)
00:06:30.517 --> 00:06:49.669
Yes, thanks to everyone for joining us today and thanks Neil for the introduction. I'm Liz LoGiudice and just give you a little background on my role with the climate Adaptive Design Studio team. I've been part of the team since its inception in 2015, and my roles on the CAD team have included being the.

23 "Elizabeth LoGiudice" (663347712)
00:06:49.669 --> 00:07:09.669
Coordinator of community engagement so, for most of the studios I've facilitated the student meetings with stakeholders and acts as a liaison between the studio and host communities. And I've also led the process to create educational materials using the student designs, including the regional look book, which will be discussing.

24 "Elizabeth LoGiudice" (663347712)
00:07:09.669 --> 00:07:15.057
As part of our presentation today, I'm pleased to be here.

25 "Josh Cerra" (3029181952)
00:07:15.057 --> 00:07:30.089
Great, thank you, Liz. And, I, in my role as professor, I lead the climate adaptive design studio program. And so today, what we'll talk about is the studio. , but most specifically about.

26 "Josh Cerra" (3029181952)
00:07:30.089 --> 00:07:52.076
A new lookbook that we've created or generated based on some of the work that's come out of this studio course, in the Hudson Valley. And so, before we begin, we really have many people we'd like to thank for this work, but I'll just start here with a few brief acknowledgements.

27 "Elizabeth LoGiudice" (663347712)
00:07:52.076 --> 00:07:54.096
I'd like to thank our key partner.

28 "Josh Cerra" (3029181952)
00:07:54.096 --> 00:08:09.179
, New York State Department of environmental conservations, Hudson River Estuary program as a key partner, , the New York state water resources Institute as well and then also a special thanks to New York state.

29 "Josh Cerra" (3029181952)
00:08:09.179 --> 00:08:29.179
Regional energy, research and development authority who help fund the lookbook in this webinar. , we'd really also like to think the host municipalities, their community members and the many students whose efforts have been critical to our work in the climate adaptive design studios. We've engaged all.

30 "Josh Cerra" (3029181952)
00:08:29.179 --> 00:08:48.125
With them, and, , many of the drawings I was going to point out here many of the drawings, you see, here were

completed by students during the studio itself, and you can see design concepts for their work on a website link that we'll share later towards the end of the slideshow.

31 "Elizabeth LoGiudice" (663347712)
00:08:48.125 --> 00:09:08.659
And I'll just provide a brief overview to orient you to our presentation agenda. We'll start by telling you the CAD studio story introducing the CAD studio process and then from there, we'll move on to sharing educational materials and resources. We're going to focus on.

32 "Elizabeth LoGiudice" (663347712)
00:09:08.659 --> 00:09:27.468
Have regional look book, but we'll also share some information about our poster exhibition, and the CaD studio arc story map collection. And, as Neil mentioned after our presentation, we'll have time for questions and answers.

33 "Josh Cerra" (3029181952)
00:09:27.468 --> 00:09:52.902
Great and so just as an orientation, the workbook is really the result of some of a lot of thinking that we've been doing during the design studio course itself and so, , well, engaging communities and so, the studio really is inspired by, , a number of things. But particularly back in in 2015 when, , I began noticing many of the.

34 "Elizabeth LoGiudice" (663347712)
00:09:52.902 --> 00:09:55.188
Shores

35 "Josh Cerra" (3029181952)
00:09:55.188 --> 00:10:15.539
And hurricanes on communities, and began, realizing that climate change, is here for every city in order, imagine futures that are productive and helpful, while also incorporating, , understanding of these risks and planning for these risks. We really need to be working with both people in place to inspire change.

36 "Josh Cerra" (3029181952)
00:10:15.539 --> 00:10:40.307
And move forward on ways to act, in, in preparation for a future vision for what our water fronts can be. And so the studio itself, it's a course, and effectively what it is, it's a, it's a way where in this studio course, it's a designed studio. It's a way where we can link students with Hudson River communities to envision more resilient water.

37 "Elizabeth LoGiudice" (663347712)
00:10:40.307 --> 00:10:43.184
Fronts within their communities different.

38 "Josh Cerra" (3029181952)
00:10:43.184 --> 00:10:54.964
Futures for those and so really what it does is combined initiatives for economic growth and ecological enhancement as well as other interests to inspire communities to act now on climate.

39 "Josh Cerra" (3029181952)
00:10:55.567 --> 00:11:09.329
And so, during this process, what we seek to do is really develop alternative strategies that range anywhere from projects that might be visionary and very forward looking to those that really have very practical.

40 "Josh Cerra" (3029181952)
00:11:09.329 --> 00:11:25.199
, strategies, , for, , discreet, , adaptation needs and so, during this process, and I'll share a little more about that. , it's really about encouraging stakeholder, interaction and capacity building to build long term benefits.

41 "Josh Cerra" (3029181952)
00:11:25.199 --> 00:11:45.199
, stakeholders are working with us and talking to us, but they're also talking amongst themselves and we feel like that can also be a benefit for municipalities as they discuss these issues of climate change and their vision for their future for the waterfront. And so the fundamental idea about this is.

42 "Josh Cerra" (3029181952)
00:11:45.199 --> 00:11:54.644
That by having these conversations by having these discussions around, , around an envisioning of futures for their water.

43 "Elizabeth LoGiudice" (663347712)
00:11:54.644 --> 00:11:55.723
Fronts.

44 "Josh Cerra" (3029181952)
00:11:55.723 --> 00:12:17.939
Communities can build capacity, they build capacity in the dialogue with us, and amongst themselves and knowledge in terms of climate awareness and also adaptation strategies are there and that builds up the network of ideas that are happening as well as networking between people. And in doing that, , the fundamental idea behind that is that enhances the potential.

45 "Josh Cerra" (3029181952)
00:12:17.939 --> 00:12:37.939
For these communities to improve their waterfront resilience, , which can in turn benefit communities and enhance their community resilience to the people that are living there. And so it's a revolving door of benefits is what we're seeking to to generate. And so the program really is focused around 3 key elements , the.

46 "Josh Cerra" (3029181952)
00:12:37.939 --> 00:12:57.006
1st one being and critically the communities we engage. So it's about working with members of the community, those can include city staff and leaders, and it also is very important to include neighbors, those that use the waterfront, those that may live nearby, those that may have businesses or other ngos there.

47 "Elizabeth LoGiudice" (663347712)
00:12:57.006 --> 00:12:57.926
, this.

48 "Josh Cerra" (3029181952)
00:12:57.926 --> 00:13:03.599
Have a steak and an interest in their access , and the value of that waterfront.

49 "Josh Cerra" (3029181952)
00:13:03.599 --> 00:13:23.599
To them on the Hudson, secondly, we engage with the program, the program itself, the DEC program brings incredible technical knowledge and expertise that many of you may be aware of including ecological expertise as well as policy and permitting, resources when needed when questions come up.

50 "Josh Cerra" (3029181952)
00:13:23.599 --> 00:13:55.167
And also that climate outreach component is extremely helpful, helpful as well and then finally, it's the studio course itself that includes, of course myself. , but also critically, , the students who are working on these ideas, , part of this process, , front and center and developing ideas and, and bringing those to the table for discussion, , in

addition to some of my research staff in the background and so the idea behind here behind this is that we're really seeking a trio.

51 "Elizabeth LoGiudice" (663347712)
00:13:55.167 --> 00:13:57.650
It's for members of the.

52 "Josh Cerra" (3029181952)
00:13:57.650 --> 00:14:17.645
Benefits for students, and then also in terms of the research that I perform, and so we're really seeking that trio value. And so since 2015, we've worked on a number of different communities. You can see the ones where we've worked on the Hudson in orange, on the.

53 "Josh Cerra" (3029181952)
00:14:17.645 --> 00:14:30.209
Sub basin map with its watershed boundary. As all you know, the Hudson drains from North down South, , over 152

54 "Josh Cerra" (3029181952)
00:14:30.209 --> 00:14:47.999
Plus miles down to the New York, New Jersey harbor, and so many many cities are along this waterfront and we've had an opportunity to work with 7 of them, including Catskill and piermont and Hudson and Kingston.

55 "Josh Cerra" (3029181952)
00:14:47.999 --> 00:15:03.299
And Poughkeepsie ,Ossining, Tarrytown over the years. And so we'll talk a little bit about those things today. 1 of the things we discussed with all these communities, when we're engaged with them.

56 "Josh Cerra" (3029181952)
00:15:03.299 --> 00:15:23.299
Is that climate risk. We need to take a very clear look at what those are and so there are many impacts. , that are projected, , on the landscape. , but briefly there's the risks of flooding, due to extreme precipitation, , river rise stormwater, runoff as well as storm surge. That many of you are familiar with during

57 "Josh Cerra" (3029181952)
00:15:23.299 --> 00:15:57.485
Hurricanes, and also the impacts of inundation due to sea level rise that are, , projected temperature changes also, extremes can impact, , the conditions that you may find in your municipality and most notably causing change, , temperature extremes in terms of heat waves and other impacts that we'll be discussing a little bit later and then finally, , over time this can Disrupt, , or there will be changes in extreme precipitation as.

58 "Elizabeth LoGiudice" (663347712)
00:15:57.485 --> 00:15:59.407
Well

59 "Josh Cerra" (3029181952)
00:15:59.407 --> 00:16:23.449
It may become more extreme and this can lead to a greater likelihood of short term drought in the Hudson River estuary as well, as projected by, , the projections that are out there. And so I wanted to spend a minute because many of the communities we work with have waterfront, and we spent a considerable amount of time talking about impacts to waterfront. I wanted to spend a little bit of time, , discussing.

60 "Josh Cerra" (3029181952)
00:16:23.449 --> 00:16:40.529

Horizon as well as flood risk and so you'll see 2 maps here the 1 on the left. These are, , these are flood maps, , using a tool put out by Columbia, the data source Columbia University, the data sources, , there at the bottom.

61 "Josh Cerra" (3029181952)
00:16:40.529 --> 00:16:58.499
And it really is, , showing a couple of things. If you look at the 1 on the left, you'll see where these are the floods projections for the 100 year flood or sometimes it's called the 1% flood. , which has a 1% chance on any given year.

62 "Josh Cerra" (3029181952)
00:16:58.499 --> 00:17:27.995
Of occurring on on austining's waterfront and that it that it may occur that what that chance is 1 % in any given year, it may happen more frequently or less frequently, but that's the average. And so the blue colors that you can see here are showing some of the temporary flooding impacts. The darker colors are where water will be deeper during that particular flood event and the lighter blue colors are aware that water will be shallower.

63 "Josh Cerra" (3029181952)
00:17:28.877 --> 00:17:49.319
Now, that same waterfront looking ahead into projected futures. , this 1 is looking at, , and using the data sets we've been using before when we are working with Ossining is obstructions into the 2080 s and that includes sea level rise. And so, .

64 "Josh Cerra" (3029181952)
00:17:49.319 --> 00:18:08.129
Sea level rise is projected to be as high as 58 inches, , on Ossining's waterfront, , in the 2080's. and so when you look at flood impacts out into the future, you need to be really looking at 2 things. You need to be looking at the changes in water depth.

65 "Josh Cerra" (3029181952)
00:18:08.129 --> 00:18:27.599
Which may cause inundation permanent changes where, , parts of landscapes can be under water. , but then when you're looking at flood, flooding risk on top of that, see, there's a 100 year flood out in the future in the 2080's, you need to add that change in water depth. That's temporary due to flooding.

66 "Josh Cerra" (3029181952)
00:18:27.599 --> 00:18:47.599
On top of that permanent inundation depth as well. And so you get greater impacts with time and so that impact of flooding due to temporary higher floodwater levels is really additive to sea level rise. And so you need to be looking at both of these and so on the map on the right you.

67 "Josh Cerra" (3029181952)
00:18:47.599 --> 00:19:08.779
See what, with 60 " of sea level rise, which is what the model has available, and a 100 year event or 1 % event happening during that decade of the 2080s, what those depths of flood exposure will be. Flooded areas that are permanently underwater or inundated.

68 "Josh Cerra" (3029181952)
00:19:08.779 --> 00:19:31.849
Areas that are permanently underwater, are shown in colors of blue and then the temporary flood depths are shown in green and yellow due to the actual flood event. And so what this essentially means is, with sea level rise, , flood impacts can be expanded up to higher levels. , in addition to the sea level rise impacts that happen, , due to innundation.

69 "Josh Cerra" (3029181952)
00:19:36.209 --> 00:19:56.209

And so, with all of the companies we work with, we have conversations about this and discuss this and engage this. And we also talk about not only our concerns about climate change, but, , a vision for what people would like their water from to become. And so during that process, I have.

70 "Josh Cerra" (3029181952)
00:19:56.209 --> 00:20:29.039
Essentially go and have 3 meetings with communities, , and a meeting before with stakeholders, the, , before the studio before the semester with stakeholders, and a meeting afterwards. And so in that Pre semester meeting, these are the steps we take. We have a conversation with key stakeholders in that community to set expectations that discuss schedules and to sort of chart the studio ahead. , where we'll be working with community members in that particular municipality.

71 "Josh Cerra" (3029181952)
00:20:29.039 --> 00:20:49.039
When the semester begins, we go down to the municipality and meet somewhere where stakeholders and community members can join us. And we really ask two things that I alluded to, a moment ago. 1st, what are your concerns about climate change where you're living? And secondly, what is your.

72 "Josh Cerra" (3029181952)
00:20:49.039 --> 00:21:18.289
Vision for what you're, you'd like your waterfront to become in your municipality, and we have discussions about both of those things in large groups and then also in smaller groups, so that we can understand both of those things and and and appreciate how significant both of these, these aspirations and these concerns can be with each community. From there we go back to the studio, which is up in Ithaca, and, begin developing an.

73 "Josh Cerra" (3029181952)
00:21:18.289 --> 00:21:50.599
Initial design ideas based on that information. We also look at different data sets, consult with technical experts, and develop some another faculty and develop design initial design ideas for what the water, how the waterfront could react to to these two questions. And so in doing that, we bring this work back to the communities in that what we call a design workshop or design concept workshop, where we share these initial design ideas around a table.

74 "Josh Cerra" (3029181952)
00:21:50.599 --> 00:22:10.599
A set of tables really cause there's a number of different design strategies that are being that are being looked at and have questions and discussions about what folks think of them. What do you like about some of these ideas? What are some things that are more challenging to the water front? Are there things we're missing that.

75 "Josh Cerra" (3029181952)
00:22:10.599 --> 00:22:30.599
You know about the waterfront that we don't, , we consider, , are the stakeholders and the community members. We work with, , experts as well, , in the sense that they know a lot about their waterfront, what their uses are, what they like to have happen. And so, , that's something that, that we're seeking to get feedback on.

76 "Josh Cerra" (3029181952)
00:22:30.599 --> 00:22:50.899
We take those ideas back we take that feedback back into the studio 1 more time back up in Ithaca, and go through a series of interview processes. We try to adapt to some of the thinking that we've heard about in, , that workshop. , bring in additional datasets, consult additional technical experts, go.

77 "Josh Cerra" (3029181952)
00:22:50.899 --> 00:23:10.899
A series of reviews by, , faculty and practitioners and landscape architecture and other fields, , to develop a revised set of alternative design strategies and that final set, , after it's complete, we take down back down to that Hudson

River municipality for a.

78 "Josh Cerra" (3029181952)
00:23:10.899 --> 00:23:43.789
Third meeting, , that's conducted, or has been conducted in the form of an open house. , all community members are invited to this particular event so that they can go and meet on an individualized format with each of the students to discuss their design approaches and that alternative alternative design strategy. They developed for the waterfront and in a way that will allow the students to ask questions in critically for the.

79 "Josh Cerra" (3029181952)
00:23:43.789 --> 00:24:00.899
Community members to ask questions and discuss not their thoughts about them, not only with us, but also amongst themselves as as a way of having a greater understanding of what these alternative design strategies are and what they could mean for their waterfront.

80 "Josh Cerra" (3029181952)
00:24:00.899 --> 00:24:20.899
After the studios over, we meet back again with key stakeholders to discuss not only the different strategies to go over them to find to gauge folks reactions to what they learned about. I design ideas that they liked alternative strategies.

81 "Josh Cerra" (3029181952)
00:24:20.899 --> 00:24:44.749
It seemed to carry a lot of traction ones that maybe did not and then, , develop a list of possibilities, not only for different, , approaches that this community might be interested in pursuing but then begin talking about, , what might it take to actually go to the next level of taking ideas inspired by the student work.

82 "Josh Cerra" (3029181952)
00:24:44.749 --> 00:25:04.749
Into a planning and design phase. And so we have those frank discussions. Often it's not saying, ok, this student's project is exactly what we want and let's go with that. It's often about taking a look at different parts of each of the individual projects that seem feasible that can be moved forward.

83 "Josh Cerra" (3029181952)
00:25:04.749 --> 00:25:16.217
Forward and so it's an important discussion to get to that next phase of imagining waterfront futures and moving towards implementation.

84 "Elizabeth LoGiudice" (663347712)
00:25:16.217 --> 00:25:36.499
So, before we move on to talking about educational materials, I just want to mention that we just shared a link to the New York state climate impacts assessment that came out earlier this year. And when Josh was talking and showing about sea level rise, and showing the sea level rise maps.

85 "Elizabeth LoGiudice" (663347712)
00:25:36.499 --> 00:26:04.349
Those maps are based on, , New York state projections that were issued, and they were adopted in 2017, , and, , based on the 2014 climate report, and the climate impacts assessment. , now, updates projections from New York of climate impacts on New York state, and currently the DEC is updating

86 "Elizabeth LoGiudice" (663347712)
00:26:04.349 --> 00:26:22.889
 the sea level rise projections based on the new climate impacts assessment. So there are lots of resources

available to all of us to learn more about expected impacts. So we encourage you to peruse the climate impacts assessment.

87 "Elizabeth LoGiudice" (663347712)
00:26:22.889 --> 00:26:42.889
And so moving on, , Josh just explained our former formal CAD studio process. And I'd also like to mention that over the evolution of the studio in the course of the years we've added other engagement initiatives to broaden participation and conversations.

88 "Elizabeth LoGiudice" (663347712)
00:26:42.889 --> 00:27:02.889
About how climate may affect waterfront , for example, students, volunteers and members of the CAD team attend farmers, markets and community events in the host community with waterfront maps to talk with people about flood risk and other climate risks and to solicit their input about.

89 "Elizabeth LoGiudice" (663347712)
00:27:02.889 --> 00:27:22.889
At the waterfront and what they'd like to see in the future. We've also offered online surveys, we've done small group Zoom sessions with community members and we've made special efforts to engage high school students as stakeholders in the studio. And still we know that we're only able to reach a small segment of the public.

90 "Elizabeth LoGiudice" (663347712)
00:27:22.889 --> 00:27:42.889
During the studio semester, so 1 of the goals of the post semester meeting that Josh just mentioned is to review the student designs with the community and select images and concepts that resonate with them to include in educational materials that the host community can then use to continue the climate conversation.

91 "Elizabeth LoGiudice" (663347712)
00:27:42.889 --> 00:28:14.869
And with, , more people in their community, and perhaps even advanced design ideas towards implementation through other phases of the CAD program. So, the 1st thing that I shared with the communities are actually the student design boards themselves. We share PDFs of the student design boards. , and they are also available online at at the trophic design website that we'll be sharing at the end of this.

92 "Elizabeth LoGiudice" (663347712)
00:28:14.869 --> 00:28:34.869
Presentation these design boards, as you can see from that image. There there are a lot of them, and they are often complex and require interpretation, which is why we have moved to creating curated materials from them. , so the suite of materials that we provide to host communities.

93 "Elizabeth LoGiudice" (663347712)
00:28:34.869 --> 00:29:03.919
Poster exhibit, that's intended to be displayed at waterfront events, community meetings and accessible locations, such as libraries. And I'll also mention that we've created a regional exhibit, which correlates student images and design strategies from all of the CAD studios in a series of posters. And that exhibit is currently on display at the Norrie Point environmental center in Staatsburg. , so we hope.

94 "Elizabeth LoGiudice" (663347712)
00:29:03.919 --> 00:29:23.919
That some of you may have a chance to see that exhibit. And we're also interested in exhibiting these posters in other public locations, so if you have any ideas about suitable venues, please let us know. We'd love to collaborate, and there is also a permanent exhibit on the CAD studio at the Hudson River Maritime Museum and.

95 "Elizabeth LoGiudice" (663347712)

00:29:23.919 --> 00:29:45.229
Which is part of their climate change exhibit and then we also create looks as a PDF publication, and though we've created them for, , for most of the communities we've worked with as a local publication that's intended for municipal officials, planning boards, waterfront advisory committees.

96 "Elizabeth LoGiudice" (663347712)
00:29:45.229 --> 00:30:01.289
Watershed groups and other more technical audiences and then, as we mentioned, we also have created arc GIS story maps to share the CAD studio story more broadly in an online venue.

97 "Elizabeth LoGiudice" (663347712)
00:30:01.289 --> 00:30:21.289
We can go the next slide. So this is just an image of the look books that we've produced to date. , these are all available online. We've produced them for Kingston, Poughkeepsie, Tarrytown, and our focus today, which is the Hudson Valley regional look book.

98 "Elizabeth LoGiudice" (663347712)
00:30:21.289 --> 00:30:25.589
Okay.

99 "Elizabeth LoGiudice" (663347712)
00:30:25.589 --> 00:30:45.589
And the workbook is broken down into several sections, the 1st section shares information about the region, climate risks, and the studio process, and much of the information we've actually shared in this presentation. So far is in the introduction section of the look book. , but we also have.

100 "Elizabeth LoGiudice" (663347712)
00:30:45.589 --> 00:31:05.589
This stakeholder insights, , page, and I'll mention that, , when we structure our initial community meetings with those communities, we often talk with stakeholders about their perceptions of key themes on their waterfront as well as challenges and opportunities. And over the years.

101 "Elizabeth LoGiudice" (663347712)
00:31:05.589 --> 00:31:37.489
We've noted that there are some commonalities across communities between people's perceptions and concerns. So, , the section of the workbook that shares these observations is 1, that you can explore on your own. But just very briefly. I'll mention that 1 key theme that we find across communities. Is the interest in enhancing waterfront access circulation and connectivity. 1 challenge is addressing flood risk to municipal infrastructure such as.

102 "Elizabeth LoGiudice" (663347712)
00:31:37.489 --> 00:31:53.339
Water treatment, infrastructure and 1 opportunity that we see frequently as to redevelop formal, former industrial sites through initiatives, such as the New York State Department of state brownfield, opportunities area program.

103 "Elizabeth LoGiudice" (663347712)
00:31:53.339 --> 00:32:13.339
And we can go to the next slide, please. So we're going to turn now to the waterfront design strategies and much of the lookbook is focused on these design strategies and they are based on a series of principles that we'd like to share with you in the next slide.

104 "Elizabeth LoGiudice" (663347712)
00:32:13.339 --> 00:32:35.279
These are our five design principles. The 1st is designing a destination and we encourage students to design things that will create memorable experiences on the water front by encouraging water dependent and water enhanced uses.

105 "Elizabeth LoGiudice" (663347712)
00:32:35.279 --> 00:32:55.279
We also, you know, I guess quite obviously designed for flooding, , and adapting to an accommodating water is a feature of CAD designs we appreciate and recognize that armoring and protecting key infrastructure from flooding is is part of resilience but we also encourage an approach of.

106 "Elizabeth LoGiudice" (663347712)
00:32:55.279 --> 00:33:18.469
Working with water, instead of working against water and part of that is designing with nature. We embrace natural solutions and the use of nature based techniques for storm order, management, erosion, control and ecological enhancement and we design with community because we're constantly.

107 "Elizabeth LoGiudice" (663347712)
00:33:18.469 --> 00:33:48.619
For inclusive engagement, and we encourage communities to take an approach that works closely with stakeholders and project planning and development and finally designing for change because we recognize that our waterfront are changing and we recognize the need to adapt to those changes. And we also understand that student designs may be involved and some are aspirational. So we encourage them to.

108 "Elizabeth LoGiudice" (663347712)
00:33:48.619 --> 00:34:19.777
Those phase plans that allow communities to implement changes over time and now we're going to turn to the list of 12 design strategies that are covered in the workbook. These are the, , 12 design strategies that you'll find in detail in the workbook. And then with the next slide, we're going to briefly describe a few of these strategies today. And those are the ones that you see.

109 "Josh Cerra" (3029181952)
00:34:19.777 --> 00:34:41.959
In blue. Okay. Well, , we don't have time to talk about all the strategies today, but I'd want to kind of cover a few of them. , the 1st, 1 that we'll talk about is resilient waterfront parks. , and waterfront parks really are essential assets for Hudson.

110 "Josh Cerra" (3029181952)
00:34:41.959 --> 00:35:00.119
Whether that's for recreation for access for habitat, and with flooding and sea level rise, we need to be considering their resilience as conditions change and so working with community members and stakeholders to imagine the future of these waterfront is really very important in this process.

111 "Josh Cerra" (3029181952)
00:35:00.119 --> 00:35:20.119
So considerations for a design strategy, like, this really include designing waterfront landscapes with assets that are flooded, that can recover quickly from floods. That's really critical for these places. Especially those that are in the flood plain or in projected future flood plains and then also, how these.

112 "Josh Cerra" (3029181952)
00:35:20.119 --> 00:35:44.149
Will transition and continue to provide value for communities with projected C. C level rises key because these, these landscapes are are changing our projected to be changing with changes in sea levels and river levels. And so, , 1 way to be thinking about that. Additionally, is that an area we can think about the flexibility of places that may be begin to flood more free?

113 "Josh Cerra" (3029181952)
00:35:44.149 --> 00:36:03.183

Currently, we can also be thinking about areas that are out of the current and projected future flood plains, , places that are not projected to be under water or flooded. , so we can imagine how to optimize them over the long term as an additional consideration during this strategy.

114 "Elizabeth LoGiudice" (663347712)
00:36:03.183 --> 00:36:20.389
So, every page of design strategies in the workbook, every, every design strategy consists of 2 pages, , the 1 page is the images from the student design concepts that Josh just shared. And then this.

115 "Elizabeth LoGiudice" (663347712)
00:36:20.389 --> 00:36:40.389
This is a page that has more details about the particular design strategy. So I'm just going to walk us through this page to orient you to the different elements of it and on the top. Right. You see the icons from the design principles that we just shared each strategy includes.

116 "Elizabeth LoGiudice" (663347712)
00:36:40.389 --> 00:37:07.489
Multiple principles and we try to point out the connections between certain principles and the strategy. So that's what those icons mean. And then the paragraph underneath resilient waterfront parks really just describes that particular strategy and underneath that, the actions to take box on the left offers ideas for steps to evaluate and advance the strategy.

117 "Elizabeth LoGiudice" (663347712)
00:37:07.489 --> 00:37:28.789
Locally, and finally the blue ovals are there to share additional information with you and, , the different icons key different factors. So the plus sign icon just provides additional information about that strategy. The exclamation.

118 "Elizabeth LoGiudice" (663347712)
00:37:28.789 --> 00:37:48.789
Point is potential concerns that we want you to be aware of. The dollar sign, I guess pretty obvious it, it points out potential funding sources for the strategy. The CSC is linked to climate smart community

119 "Elizabeth LoGiudice" (663347712)
00:37:48.789 --> 00:38:06.659
Cerification actions that are related to the strategy and finally the question mark provides hyperlinks to resources that are mentioned in the actions to take box. , and we'll share that. If you actually look using this in the workbook.

120 "Elizabeth LoGiudice" (663347712)
00:38:06.659 --> 00:38:26.659
You can click on these icons and it will take you to a section in the back of the workbook that presents this information in a table form. There are a lot of links and resources available. And so we wanted to present them in a couple of ways. And I'll also just mentioned that we just.

121 "Elizabeth LoGiudice" (663347712)
00:38:26.659 --> 00:38:49.116
Shared, , the flood resilience handbook publication that is a really excellent resource for managers of waterfront parks that are coping with flooding and sea level rise. , so we hope that you will take a look at the flood resilience handbook.

122 "Josh Cerra" (3029181952)
00:38:49.116 --> 00:39:22.490
Okay, we'll share a few more of the strategies and some of the backdrop information that's in the lookbook, and one of the design strategies is resilient roadways and infrastructure. The 2nd one, it's about roadways and other infrastructure, how they're often close to water fronts and maybe maybe subject to current and future flooding and

inundation risks. And so it's really important during some of these events for people to be able to get in and out of these waterfronts both before.

123 "Josh Cerra" (3029181952)
00:39:22.490 --> 00:39:52.490
Or during and after the events, but it's also valuable to have roadways that that can enhance access when there aren't these impact events and the impacts the roadways and other critical infrastructure really should be mitigated in these, these impact scenarios for example, by moving or elevating them , so they're out of the inundation areas that are projected as well as the flood areas that exist today and into the future and so in doing. So we can be thinking of different ways of.

124 "Josh Cerra" (3029181952)
00:39:52.490 --> 00:40:12.490
Doing that, and it, that value for having more than one way in and out is really, really important. That redundancy being built in enhances the resilience of these places. And so that it that enhances its resilience in times of flooding and also when it's not. So it's about building that redundancy.

125 "Josh Cerra" (3029181952)
00:40:12.490 --> 00:40:34.802
Into waterfront access, and this can include incorporating, , multi modal access to waterfront, , such as walking biking and public transit in addition to by car as valuable for today's and tomorrow's waterfront and, , next we'll share, , some of the resources that are available, , in the look book about this, this design.

126 "Elizabeth LoGiudice" (663347712)
00:40:34.802 --> 00:40:55.610
Strategy so just very quickly it's the same format, , as we just saw with resilient, waterfront parks. 1 of the resources that we share on this page is the Hudson River program and New York state water resources, Institute, aquatic connectivity and barrier removal.

127 "Elizabeth LoGiudice" (663347712)
00:40:55.610 --> 00:41:04.820
And that links directly to the website, and I believe we are also sharing a link to that on today's webinar.

128 "Josh Cerra" (3029181952)
00:41:04.820 --> 00:41:26.570
Okay, and we're running a little bit behind schedule today. So I just want you to know that there's another design strategy in the book called sustainable, shore lines that you can learn more about as well as a number of additional strategies with backdrop information as well. That was provided an overview for and then I can talk a little bit now about.

129 "Josh Cerra" (3029181952)
00:41:26.570 --> 00:41:39.698
Another strategy, strategic relocation and adaptive reuse , and this strategy really considered how to work with floodwaters and sea level rise by looking at structures, their uses, and their potential, , need for real.

130 "Elizabeth LoGiudice" (663347712)
00:41:39.698 --> 00:41:41.139
Location now in a.

131 "Josh Cerra" (3029181952)
00:41:41.139 --> 00:42:10.360
To the future. So this is really about what should be moved or could be moved and when to avoid significant impacts as waterfronts change over time with climate change and how some structures can be adapted to flooding depending on conditions and also if the uses are compatible with flooding and how to incorporate those. These

considerations additionally include possible relocation of uses structures and other assets due to these risks.

132 "Josh Cerra" (3029181952)
00:42:10.360 --> 00:42:31.640
And so relocation can be challenging and difficult whether that's emotionally whether that's logistically or otherwise. So really being thoughtful about how to initiate these conversations is an important first step. And Here's some background.

133 "Josh Cerra" (3029181952)
00:42:31.640 --> 00:42:37.790
Material that covers that in the different categories that list, , spoke about I don't know.

134 "Elizabeth LoGiudice" (663347712)
00:42:37.790 --> 00:43:01.568
Get more to add there, Liz just 1 of the really interesting resources that, , is shared here is the village of Piermont is 1 place in the Hudson Valley that is having, , conversations about potential relocation. And there's a document about some of the work that they've done with consensus building Institute to start to have those conversations in some neighborhoods.

135 "Josh Cerra" (3029181952)
00:43:03.600 --> 00:43:23.600
Okay, and then finally, I'll just talk for a moment here about cooling our cities climate change is projected to room temperature changes as well. , and these include increasing average temperatures, but also increase number of hot days, over 90 degrees Fahrenheit. , and also increasing number of heat waves and so.

136 "Josh Cerra" (3029181952)
00:43:23.600 --> 00:43:41.292
This strategy talks about mitigating for some of these heat effects, including providing shade, planting trees, which provide additional cooling and other benefits, , as well as using building materials that absorb less sunlight and radiate less heat.

137 "Elizabeth LoGiudice" (663347712)
00:43:41.292 --> 00:44:05.960
And I'll just say that I'm sure that all of us today are feeling feeling the heat and understanding the need for our creative ways to stay cool. And New York state DEC has a number of programs that are related to trees and.

138 "Elizabeth LoGiudice" (663347712)
00:44:05.960 --> 00:44:34.230
And cooling, , so please take a look at this this page and the look book, and follow the links to trees for trips, or the relief program. , or the urban forestry program. Finally, this is, I mentioned that we were sharing this this information in a few ways. So these are the back pages of the look book, , that link directly to the design strategy references.

139 "Elizabeth LoGiudice" (663347712)
00:44:34.230 --> 00:44:50.760
And then the next slide is an example of the funding opportunities page to provide an easy access to being able to read more about how we can fund these initiatives.

140 "Elizabeth LoGiudice" (663347712)
00:44:50.760 --> 00:45:13.880
And then as we mentioned earlier, we do have a story collection on our GIS story map collection. This is the front cover of our regional story map. We'll be sharing those links to both the, the collection which has story maps for the city of Poughkeepsie and the villages.

141 "Elizabeth LoGiudice" (663347712)
00:45:13.880 --> 00:45:26.935
The TarryTown and the regional story map, and then one that goes directly to this resource. So we hope you'll visit and we hope you like it and we hope you will share with others.

142 "Josh Cerra" (3029181952)
00:45:26.935 --> 00:45:48.560
And so, the material we're sharing today in the lookbook is really meant to assist communities in starting conversations and communicating around climate change and, and, and strategies for adapting to it. And so looking across the Hudson, it's really about building a culture of adaptation in this region.

143 "Josh Cerra" (3029181952)
00:45:48.560 --> 00:46:11.180
And we hope this document can be part of that, , I also will mention that in the past, , the program has supported funding for adaptation planning and design and the Hudson, , often inspired by ideas or momentum generating the studio through a request for proposals process Neil shared, , related announcement.

144 "Josh Cerra" (3029181952)
00:46:11.180 --> 00:46:17.850
And before this, and may have more to share after as well.

145 "Josh Cerra" (3029181952)
00:46:17.850 --> 00:46:37.850
And this is the list of the resources and references that Liz, , mentioned and I mentioned during our discussion today and those QR codes the 1st one the upper right. Will take you to the book itself. If you haven't clicked the link that was in the chat, and then additionally the regional story map on the left.

146 "Josh Cerra" (3029181952)
00:46:37.850 --> 00:46:57.995
And you can find the collection as well at these links and other ones. I'll just stay on this for just a 2nd and then finish by saying thank you very much for this opportunity to speak with you about this. If you have questions for Liz or I, we'll have them some time here.

147 "Elizabeth LoGiudice" (663347712)
00:46:57.995 --> 00:47:05.660
In a moment for that, thank you. Thank you.

148 "Neil Bettez" (74586112)
00:47:05.660 --> 00:47:21.990
Thank you Josh and Liz as, , as Josh said, if anyone has any questions, we're happy to answer them and if we can't, we'll try to get back in touch with you.

149 "Neil Bettez" (74586112)
00:47:21.990 --> 00:47:38.490
As I said earlier, you'll be given a link to this webinar as well as the links that we mentioned. So, don't see any questions yet.

150 "Neil Bettez" (74586112)
00:47:38.490 --> 00:47:58.490
Or, , comments, but we'll, , leave it open for a few more minutes and then do have a question and just the comments.

151 "Neil Bettez" (74586112)
00:47:58.490 --> 00:48:08.021

Thank you for presenting all this. , they're looking forward to digging into the resources.

152 "Neil Bettez" (74586112)
00:48:09.717 --> 00:48:16.598
Thank you a question here. How do school students become aware of.

153 "Josh Cerra" (3029181952)
00:48:16.598 --> 00:48:19.140
This.

154 "Josh Cerra" (3029181952)
00:48:19.140 --> 00:48:39.140
Oh, , well, I hope that you share some of these resources you find them suitable to share with students. , if that's, , about what your question is but in the past, , in the studio, we've had opportunities to work directly with high school students. through our stakeholder networks.

155 "Josh Cerra" (3029181952)
00:48:39.140 --> 00:48:59.140
Have been able to reach out to different teachers and others that are working on topics related to this, maybe it is related to a course or there's a student group that has an interest in this. And then additionally, we've also worked with Cornell Corporate extension, who has programs for high school students that relate to some of.

156 "Josh Cerra" (3029181952)
00:48:59.140 --> 00:49:21.557
Of these topics, and we've had opportunities to engage in that setting as well during the studio and it's just been extremely informative, , as it is with all stakeholders we engage with, in, in hearing not only from, , adults that are part of these communities, but also young people that are looking ahead to their future in the future of their of their cities. And, , that's 1 way. We've done it.

157 "Neil Bettez" (74586112)
00:49:21.557 --> 00:49:41.620
In the studio, so I just mentioned real quick. Someone said they had their hand raised, but if you could put your question in the chat since the everyone's muted. , and then we'll try to answer it someone else asked can you explain stakeholder? Is it all residents municipalities.

158 "Josh Cerra" (3029181952)
00:49:41.620 --> 00:49:47.639
Good question. , do you want to field that 1, Liz? I'm happy to do it.

159 "Elizabeth LoGiudice" (663347712)
00:49:47.639 --> 00:50:02.940
As well sure. So we have a we have what's what's called the stakeholder matrix and we want to be able to engage people across scale.

160 "Elizabeth LoGiudice" (663347712)
00:50:02.940 --> 00:50:22.940
And across sectors of the community, , so we engage people from the municipalities that themselves, , and committees and groups in the municipality as well as residents, , business owners, nonprofit organization.

161 "Elizabeth LoGiudice" (663347712)
00:50:22.940 --> 00:50:50.180
Academic institutions. So we, we start out early with the community just doing a deep dive into people who are invested in the waterfront nearby neighborhoods and and people that are really interested in waterfront improvements. And the community, the municipality and the and community members help us identify all these different sectors and

individuals.

162 "Elizabeth LoGiudice" (663347712)
00:50:50.180 --> 00:51:07.099
In those sectors who may be interested, and then we do, you know, sort of more broader outreach through press releases and, , trying to get the word out there with fliers and other and other more traditional outreach as well. I don't know if you.

163 "Josh Cerra" (3029181952)
00:51:07.099 --> 00:51:25.430
You have anything to add to that Josh? No, I think that's really good other than, , other than just to say that, , involving as many as diverse a set of of community members as possible is, is extremely helpful. , those are diverse perspectives, but different people.

164 "Josh Cerra" (3029181952)
00:51:25.430 --> 00:51:55.774
Will bring different insights and different resources at the table and it's just really, really important that for those that have these waterfront, , that that have a sense of ownership that they are represented in the discussion. We're always striving to improve the ways that, , we can be more inclusive. , and it's a work in progress, but it's something that we're constantly looking to improve through resources and strategies that Liz, , mentioned during the studio and other ones that we're looking to expand on.

165 "Neil Bettez" (74586112)
00:51:55.774 --> 00:51:58.440
Yeah.

166 "Neil Bettez" (74586112)
00:51:58.440 --> 00:52:20.539
Mr. Breen, if you, if you don't want, if you want to, we can unmute you and you can ask your question. And while we're doing that, someone else asked how many of your CAD projects have moved to implementation stage? Have any communities implemented these CAD projects that have become or could become demo projects that could be visited?

167 "Josh Cerra" (3029181952)
00:52:20.539 --> 00:52:22.500
[...] it yet.

168 "Josh Cerra" (3029181952)
00:52:22.500 --> 00:52:42.094
, I'm not familiar with any that have been built and visible yet. , those that are inspired by the studio and Liz, you may have more to add there, but there are certainly are projects that have advanced on that have been inspired by the studio. , Kingston. , has a, and maybe you want to.

169 "Neil Bettez" (74586112)
00:52:42.094 --> 00:52:48.854
Talk about a few of those, and then I can add as needed. Yeah. I mean, so that's the grant we just awarded to the sitting Hudson.

170 "Josh Cerra" (3029181952)
00:52:48.854 --> 00:52:50.093
And if you want to talk about.

171 "Neil Bettez" (74586112)
00:52:50.093 --> 00:53:12.376
That or I can mention it, but that's the 3rd phase where they, they do the engineering design, and they get it ready to put

out to bid. So none of them are completed yet, but it's a, it's like a 3 stage process and so many of them have been moving forward. So, I think of the original 7 4 moved to stage 2, and then 1 is moving to stage 3.

172 "Elizabeth LoGiudice" (663347712)
00:53:12.376 --> 00:53:59.895
Moving to stage 3, so thanks, Neil. Yeah, and I will just also mentioned that the studio itself that they are student designs and so we try to be very clear that, , there's much work that needs to be done to advance these concepts and ideas towards implementation. , so the, the, the few the phases that Neil mentioned are to bring those design concepts, or maybe other design concepts that are, , that that that are conceived of by by design firms that work directly with the communities are the ones that will move towards implementation. Really this is the conceptual phase and the educational phase of of the project is.

173 "Neil Bettez" (74586112)
00:53:59.895 --> 00:54:17.520
The studio itself, it turns out we can't you Mr. Breen so you'll have to put it in the chat. So, another question is, , Ossining was discussed what if anything is being done, or has been done for the waterfront parks in Rockland county to adapt the climate change.

174 "Elizabeth LoGiudice" (663347712)
00:54:24.977 --> 00:54:42.590
1 of them is in Rockland. Yes. Piermont is in Rockland and, , Piermont has done a lot of work towards, , adapting to climate change. They have a waterfront resilience commission that.

175 "Elizabeth LoGiudice" (663347712)
00:54:42.590 --> 00:55:02.590
Is, is very active and proactive. They have a New York State Department of State local waterfront revitalization plan. They, about a decade ago, they completed a sea level rise task force process with Scenic Hudson, and they also have received the.

176 "Elizabeth LoGiudice" (663347712)
00:55:02.590 --> 00:55:21.779
He had phase 2 implementation funding to work on on their waterfront and I feel like that's just that's certainly not all that they're doing. That's 1 community that has really been exemplary and how they're working.

177 "Neil Bettez" (74586112)
00:55:21.779 --> 00:55:34.678
Towards greater resilience. Another question is, I think it was discussed a little bit. How will the Hudson River waterfront be in the future? What changes do you envision for the waterfront?

178 "Josh Cerra" (3029181952)
00:55:34.678 --> 00:55:46.980
Well, I guess I can say that, , we understand what the projected impacts of climate change are and those sea level rise impacts and some of the other impacts that we discussed.

179 "Josh Cerra" (3029181952)
00:55:46.980 --> 00:56:06.980
, the future for each waterfront, it's a big part of that is those impacts, but another big part is the decisions that communities make, , with respect to, , how they would like to prepare for it. And so this is part of why we're sharing this work and our.

180 "Josh Cerra" (3029181952)
00:56:06.980 --> 00:56:24.858
To, , , to have these engage opportunities with municipalities to begin discussing and envisioning what those futures could be, , as each waterfront for each municipality and community adjust to the, to the future with climate

change.

181 "Elizabeth LoGiudice" (663347712)
00:56:24.858 --> 00:56:46.940
And I'll just also just quickly mention that many Hudson River waterfronts, , are really undergoing very positive changes due to the work of the program and others. , there is much more river access than there was.

182 "Elizabeth LoGiudice" (663347712)
00:56:46.940 --> 00:57:09.890
In the past some past industrial uses are being converted to public amenities and so there is a lot to be really optimistic about in terms of future access to the, to the river itself. And part of our goal in doing the climate adaptive.

183 "Elizabeth LoGiudice" (663347712)
00:57:09.890 --> 00:57:21.840
Studio and resilience work is to give us all advance planning so that we can continue to have vibrant waterfront into the future.

184 "Elizabeth LoGiudice" (663347712)
00:57:21.840 --> 00:57:41.160
And I think that we just shared the Hudson River National Research reserve, sustainable shoreline website. And that's 1. I'll just mention it is referenced a lot in the Look book because it is such a rich resource of information on, .

185 "Elizabeth LoGiudice" (663347712)
00:57:41.160 --> 00:58:01.160
, on work that can be done to have our waterfront be more resilient, , using in, in many ways, nature, based solutions or nature, infrastructure, hybrid solutions. , and it has case studies, which is really cool. So you can see what communities up and down.

186 "Elizabeth LoGiudice" (663347712)
00:58:01.160 --> 00:58:07.060
The river are already doing to, to improve their water fronts.

187 "Jesenia Laureano" (4272997376)
00:58:09.617 --> 00:58:27.000
I don't see any more questions. Oh I believe we have a question about, , scaling down some themes to be presented for our little ones. , it says elementary or high school. I understand.

188 "Jesenia Laureano" (4272997376)
00:58:27.000 --> 00:58:42.835
And then they asked, , can some themes be presented to our little ones all these are great ideas. I found that there is never enough funding to support everything. Is there a priority protocol?

189 "Elizabeth LoGiudice" (663347712)
00:58:42.835 --> 00:59:07.000
So, in terms of themes, for younger people, I would encourage you to reach out to the program education team and to also check out the New York State Department of Environmental Conservation, YouTube video pages because they are.

190 "Elizabeth LoGiudice" (663347712)
00:59:07.000 --> 00:59:25.632
There are resources available and some of them are very excellent. , so those would be a couple of ideas to start conversations with younger people about some of these climate impacts. What was the rest of the question Jesenia

191 "Jesenia Laureano" (4272997376)

00:59:25.632 --> 00:59:35.997
You are muted. I have found that there is never enough funding to support everything. Is there a priority protocol?

192 "Elizabeth LoGiudice" (663347712)
00:59:35.997 --> 00:59:54.590
That I mean, I guess I would just answer that, , 1 of the newer resources on the funding page is the environmental bond act funding finder, which is definitely.

193 "Elizabeth LoGiudice" (663347712)
00:59:54.590 --> 01:00:14.590
Worth exploring and in terms of priorities, , it really is. Those are the community's priorities. So, what we try to do is to foster conversations within the communities and to bring together, , all these sectors that of people that may not normally be talking with each other

194 "Elizabeth LoGiudice" (663347712)
01:00:14.590 --> 01:00:31.876
About these issues, so that they can work with support from partners, the amazing partners in the Hudson River estuary region to make those priorities and make those decisions for themselves.

195 "Jesenia Laureano" (4272997376)
01:00:31.876 --> 01:00:43.618
Thanks Liz. And we have one more question. Is each semester focused on a different town or city or multiple?

196 "Josh Cerra" (3029181952)
01:00:43.618 --> 01:01:11.739
Great question, and that one we can answer quickly. To date, it's really been just a single municipality. We have worked with village in town of Ossining together in past years, but the idea is that it's working with an individual community to develop, alternative strategies and a vision for that waterfront that is specific to their needs and interests as well.

197 "Jesenia Laureano" (4272997376)
01:01:11.739 --> 01:01:17.716
Thanks

198 "Neil Bettez" (74586112)
01:01:17.716 --> 01:01:31.833
Any more we're getting a, we're a little over over time here, so I don't want to drag this on too long but we don't have any more questions. I, thank you. Both for doing.

199 "Josh Cerra" (3029181952)
01:01:31.833 --> 01:01:49.872
Presentation and thank you everyone for attending. Thank you. All right. Bye. Bye. Bye.