

1 ECONOMIC DEVELOPMENT COMMITTEE
2
3 OF THE
4
5 SUFFOLK COUNTY LEGISLATURE
6
7 **MINUTES**
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10 A meeting of the Economic Development Committee of the Suffolk
11 County Legislature was held in the Rose Y. Caracappa Legislative
12 Auditorium of the William H. Rogers Legislature Building, 725
13 Veterans Memorial Highway, Smithtown, New York on January 25, 2023.
14

15 **Members Present:**

16 Legislator James F. Mazzarella - Chairperson
17 Legislator Trish Bergin - Vice Chair
18 Legislator Stephanie Bontempi
19 Legislator Kara Hahn
20 Legislator Jason Richberg
21 Legislator Robert Trotta
22

23 **Also in Attendance:**

24 Frank Tassone - Clerk/Suffolk County Legislature
25 Brett Robinson - Chief Deputy Clerk/Suffolk County Legislature
26 All Other Interested Parties
27

28 **Minutes Taken By:**

29 Gabrielle Severs - Court Stenographer
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(The meeting was called to order at 12:32 p.m.)

CHAIRMAN MAZZARELLA:

Good morning, and welcome to the Economic Development, Planning, and Housing Committee. Can we begin by saying the Pledge led by Legislator Trotta.

(Pledge of Allegiance)

If you could remain standing for a moment of silence for the folks in California, the families that are suffering senseless killings.

(Moment of Silence Observed)

Thank you.

Good morning, Mr. Clerk.

CHIEF DEPUTY CLERK ROBINSON:

Good morning, Mr. Chairman.

LEG. MAZZARELLA:

Roll call, please.

(The roll was called by Chief Deputy Clerk Robinson)

CHAIRMAN MAZZARELLA:

Present.

LEG. BERGIN:

(No response.)

LEG. HAHN:

Present.

LEG. TROTТА:

Here.

MR. RICHBERG:

(No response.)

LEG. BONTEMPI:

Present.

P.O. MCCAFFREY:

Here.

LEG. RICHBERG:

(No response.)

LEG. BERGIN:

(No response.)

CHIEF DEPUTY CLERK ROBINSON:

Five.

1 **CHAIRMAN MAZZARELLA:**

2 Mr. Chairman, Legislator Bergin has an excused absence today. She
3 has a family medical emergency.

4
5 Any correspondence?

6
7 **CHIEF DEPUTY CLERK ROBINSON:**

8 All correspondence has been distributed accordingly, Mr. Chairman.

9
10 **CHAIRMAN MAZZARELLA:**

11 Thank you. Do we have any public portion -- any public expression
12 today on public portion?

13
14 **MR. DELUCA:**

15 There are no public speakers, Mr. Chairman.

16
17 **CHAIRMAN MAZZARELLA:**

18 Thank you. So we'll move right into presentations. We have a
19 presentation today. I'd like to bring up Mr. David Manning from
20 the Brookhaven National Lab who is going to give us a presentation
21 on the economic impacts of the laboratory on our region. Welcome,
22 Mr. Manning. Make yourself at home. I think you should be
23 situated technologically speaking.

24
25 **MR. MANNING:**

26 Thank you. On the record, Mr. Chairman, David Manning, and I lead
27 stakeholders relations at the laboratory. I have with me Joe
28 Gettler. Joe is one of our communications specialists on the team.
29 Joe is here not only because he produces a lot of our messaging but
30 when we have questions, it's helpful to us if Joe can note those
31 and take note of the interest that you have so we can adapt to our
32 messaging going forward.

33
34 We have got a brief presentation for you, and thank you very much
35 for this invitation. I'm going to close -- open and close on the
36 same point. Now that we're coming out of Covid, we're better able
37 to host business and delegations because you know it's a closed
38 facility, but we do have a protocol office within my group, so I'll
39 be looking forward to this committee attending and visiting the
40 lab. It's about a two-hour commitment, and we can discuss that at
41 your will but thank you.

42
43 To underscore and to enhance my invitation, we'd like to do a brief
44 presentation.

45
46 **CHAIRMAN MAZZARELLA:**

47 Excellent, and we look forward to the invitation to come out and
48 see you. Thank you.

49
50 **MR. MANNING:**

51 There it is. So this is a quick map, and very quickly it's 5,000
52 acres, 300 buildings, close to 3,000 employees. We have about
53 4,000 visitors a year. The economic impact is significant. As you
54 know, the financial studies have indicated that there's probably
55 about a two for one match for money we actually spend. The budget
56 of the laboratory is about 700 million dollars a year. That's all

1 federal funding. Ninety-four percent of our funding comes from the
2 U.S. Department of Energy, the Office of Science within the
3 Department of Energy. There are 17 national labs in the U.S. Ten
4 of those are operated by the Office of Science, and we are one.
5 What's unique about us is we are in the northeast. The next
6 closest is Princeton.

7
8 Number two, we do many things. We are a multipurpose lab.
9 Princeton does one thing, which is fusion.

10
11 Number three, we are a user facility. So what we do, our
12 scientists spend half their time on original research, the other
13 half of their time supports research by others; so therefore, you
14 have largely from the U.S., largely in academics, but you have
15 Lockheed Martin, Toyota, GM, companies like that plus academics.
16 It's a constant stream into the laboratory to take advantage of our
17 big machines. The other unique thing about these machines, these
18 laboratories, they exist because of big machines, so if you look up
19 at the map, you will see every laboratory has a big machine.
20 What's unique about B.N.L. is that we have two. So you'll see a
21 giant ring at the top, that the relativistic heavy ion collider,
22 which will be converted to to the electron ion collider, which you
23 may have all noticed, is a two and a half billion dollar investment
24 of federal money over the next decade to build it. It will have an
25 operating budget of over 200 million a year for 20 years at least.
26 After that, that's all federal money coming into Suffolk County.
27 Bottom right of this screen is the National Synchrotron Light
28 Source. There's 35 of those in the world. Ours is the newest and
29 the biggest and the best. Yankee Stadium would fit inside that
30 building. The building alone was \$250 million. The total rollout
31 was a billion. We're adding new beam lines. We're half built out
32 now. It has room for 60. These are basically cameras, so you'll
33 see in the video we spend about \$25 million for each beam line, so
34 there's another 30 to go. The original light source, which is on
35 that screen under computation has been completely repurposed for
36 big data. We are one of the largest pros of scientific in the
37 country in the top five in the world because of the amount of
38 information that these being machines toss out.

39
40 So there's a quick snapshot. I do want to point out the NASA Space
41 Lab up in the top left corner. Because we have this ion collider,
42 we generate ions which are the guys in space that cause problems,
43 so we are the home of the only NASA space lab in the country. So
44 it was originally designed to protect astronauts, but now, of
45 course, as you can imagine, we're doing work for SpaceX, Blue
46 Origin, and there's a whole new revelation going on.

47
48 So there's a quick snapshot, but I would like to take you inside.
49 You also can see on the map there that we are situated, and if you
50 watch the weather map in the evening on television, you will see
51 the ring, and that ring, of course, is reck (ph), which is 2.5
52 miles around. There's only one other one in the world. That's
53 CERN in Switzerland. It's actually much larger, but we have more
54 powerful magnets. We do similar things but different things.

55
56 So let's go to the video. Thank you.

(Video was played.)

1
2
3
4 Thank you. I'm just going to go through a couple of quick slides.
5 I recognize that time is short. But as I indicated, it's a
6 multi-purpose lab. We are actually operated -- Joe and I work for
7 something called Brookhaven Science Associates. That's a joint
8 venture of Stony Brook University and Patel Memorial Institute,
9 which is a global -- it's U.S. based, but it's a global research
10 non-for-profit and that -- our board of directors are all the major
11 institutions of the northeast like MIT, Harvard, Yale. These are
12 the universities that I believe the laboratory that we have a
13 number of joint appointments to Stony Brook, so we're critical to
14 Stony Brook, Stony Brook is critical to us, and when you look at
15 the opportunity to collaborate on Long Island, you create this
16 innovation corridor. So just very quickly, there's a few numbers
17 for you. As you can see, we have -- and the other thing, of
18 course, is on our education system. We have over 30,000 before
19 Covid and now post-Covid. We have over 30,000 students a year come
20 to the lab. That's the yellow bus crowd for the most part. That's
21 largely drawn on Long Island. These are kids that get to come. We
22 have a 10,000 square foot science museum that they get to work in
23 hands on. We also have the best internship program in the country.
24 Out of the 17 labs, we placed first this year. Our scores came out
25 last month, and we got those scores because we maintained it
26 through Covid, so these are paid internships. University students
27 can come to the lab. They work for 10 weeks. They get paid \$6,500
28 and their housing is provided, and they do real work connected to
29 real scientists. Our roll in education here in Suffolk County, we
30 think is very significant, and it's a big advantage of having a
31 national lab in your environment.

32
33 Maybe just quickly we'll keep moving. Those are the things we
34 focus on. Obviously, the energy transition, as you all know, we're
35 going to wind up with nine gigawatts of offshore wind. Some of you
36 also know that the grid may not be ready for that. We have one --
37 some of the best battery research going on in the country is taking
38 place at Brookhaven. Esther Takeuchi who heads that team, she
39 actually invented the battery for the defibrillator. This is a
40 machine inside the chest wall that watches your heart for up to a
41 decades. If the heart stops, it delivers a punch a million times
42 the power of a pacemaker. She was inventor of the year in Europe
43 for that. She got an award from the president, and she leads the
44 battery research at B.N.L. in Stony Brook, and we got her there
45 because we have the light source, because we have the best machine
46 in the world where she does her work, and she has labs in both
47 locations.

48
49 So just quickly, we're known as a big physics lab. We're very
50 interested, obviously, in climate, isotope production because of
51 the old new plants have closed, we are a critical supply of
52 isotopes for medical research, and we will now be the only facility
53 that's in scale that can create a new isotope, actinium 225, which
54 has been shown in initial studies to eliminate stage 4 prostate
55 cancer in two shots. Clinical trials haven't started yet. We just
56 invested \$10 million in new hot sales to make this stuff, but

1 that's kind of what the lab does. We work on the future. What
2 else have we got? Anything else?

3
4 And, of course, you'll read a lot about quantum. Federal
5 government is pulling a ton of money into quantum. There's two
6 sides of this. There's quantum machines. We're partnering with
7 IBM and others to -- and we have landed the quantum hub, which is
8 \$25 million over -- \$25 million a year over five years, so it's
9 both creating quantum computing but it's also quantum networking,
10 and we've been able to shoot with lasers quantum volumes of
11 material to Stony Brook and ultimately it's going to find its way
12 to Yale. We're doing this along conventional cable. B.N.L. and
13 Chicago are leading the nation in terms of quantum networking.

14
15 There's a quick shot. That's My Brother's Keeper. That's a
16 program federally funded, and it's a New York State program, taking
17 students, largely young men from challenged communities. They came
18 to us and to SUNY Old Westbury. There's Girls Inc. underneath,
19 which is the woman's equivalent, and when the storm hit Puerto
20 Rico, we had a number of students who had not only no place to
21 live, they had no place to work. They were partway through a Ph.D.
22 program. We housed them. We allowed them to finish their Ph.D.
23 Two of them are now working full time at the lab, and one of their
24 professor's, one of the top scientists in climate, has followed
25 them, so we now have a top climate scientist from Puerto Rico, and
26 her husband is now selling backup generators for a company in
27 Suffolk County.

28
29 I think that's probably it, is it? That's what we wanted to share
30 with you. It's a real crash course in the lab. Normally, as you
31 can imagine, we would take longer, but we're very happy to take
32 your questions and look forward to showing you around.

33
34 **CHAIRMAN MAZZARELLA:**

35 Sure. Thank you. And you're also a good businessman because that
36 was a good trade that you made getting that extra scientist in
37 order to bring those students and then let them finish their Ph.Ds.

38
39
40 **MR. MANNING:**

41 Absolutely. It's a very competitive world out there, as you might
42 imagine. And, of course, when they come in, I say, look, if you
43 like the water, we've got the best beaches on the planet; if you
44 like going to the city, we've got great rail connections, and in an
45 ideal world, you'll live close to both. I always brief them on the
46 way in.

47
48 **CHAIRMAN MAZZARELLA:**

49 Thank you. All I can say is impressive and exciting. Naturally
50 I'm sure when this committee is fortunate to tour there will be a
51 lots of questions that day. The technology is way above my head.
52 I'm not afraid to say that. I don't have anything specific, but I
53 think there's a few people that might have a couple questions for
54 you.

55
56 **MR. MANNING:**

1 Thank you.

2

3 **LEG. TROTТА:**

4 Unlike him, I knew exactly what you were saying.

5

6

(Laughter)

7

8 This may sound like a stupid question: What is "quantum?"

9

10 **MR. MANNING:**

11 Well, quantum -- it's really interesting. "Quantum" is basically
12 volume of secure information, so -- and there's a race going on
13 right now, as you might imagine, with China. So the idea is that a
14 quantum computer can process in a millisecond far more data than all
15 of the computers that B.N.L. can currently manage, you know, in the
16 same period of time.

17

18 **LEG. TROTТА:**

19 I think Suffolk County needs one of those.

20

21

(Laughter)

22

23 Is it secure?

24

25 **MR. MANNING:**

26 I was not anxious to go there. I did use the word "secure." It is
27 the future, but part of to concern, of course, is that it has the
28 ability to break codes at lightning speed. I mean there's a lot of
29 issues around, and it's a very important area of science and
30 technology that the U.S. must led. So there's two elements: One
31 is the speed in which you can do complex computation, and the other
32 is the speed with which you can communicate data. So there's
33 quantum net working and quantum machines, and we're involved in
34 both, so we're very proud of that. It's a big deal going forward.

35

36 **LEG. TROTТА:**

37 I mow my own lawn.

38

39 **MR. MANNING:**

40 Sorry.

41

42 **LEG. TROTТА:**

43 I mow my own lawn.

44

45

(Laughter)

46

47 **MR. MANNING:**

48 I don't even have a Roomba, sir. I vacuum my own house.

49

50 **LEG. TROTТА:**

51 I have been there a few times over the years. Do you have a gun
52 range there or something?

53

54 **MR. MANNING:**

55 No, not at the lab. We do have 5,000 acres.

56

1 **LEG. TROTТА:**

2 I was assigned to the F.B.I. for 10 years, and I know I came there
3 on a couple cases. I remember for some reason --

4
5 **P.O. MCCAFFREY:**

6 Illegal deer hunting.

7
8 **LEG. TROTТА:**

9 No.

10
11 **MR. MANNING:**

12 I mean, there was some dog training there because, of course, you
13 could have a controlled environment with traffic. We did candidly
14 -- one of the things we do is climate study, and one of the best
15 ways to do that is leaves from the top of trees, and we found the
16 best way to get the leaves off trees was to use shotguns to the top
17 of the trees. So we would communicate with the community that
18 there will be some shotguns going off, but they are all pointing
19 up. But it has been an interesting training facility for
20 various -- we do have our security force there, as you can imagine,
21 and our own fire department, so we have very specialized --

22
23 **LEG. TROTТА:**

24 For some reason, I remember an indoor range or something.

25
26 **MR. MANNING:**

27 Well, that may go back before my time.

28
29 **LEG. TROTТА:**

30 This was years ago.

31
32 **MR. MANNING:**

33 Well, yeah, but, you know, cops have their own gym. I wouldn't be
34 surprised if back in the day there were a lot of unique facilities
35 for the lab; not currently, though.

36
37 **CHAIRMAN MAZZARELLA:**

38 Legislator Anker.

39
40 **LEG. ANKER:**

41 I think you are referring to Camp Upton. That was about 75 years
42 ago or something like that.

43
44 **LEG. TROTТА:**

45 I'm not that old.

46 *(Laughter)*

47
48 **MR. MANNING:**

49 No offense to Legislator Trotta. Every individual that went to war
50 in New York went out of Camp Upton in both wars, and we have an
51 Olympic-sized pool and gym because there were returning soldiers
52 that were injured. The rehab was at Camp Upton as well, and as you
53 probably have heard me tell this story, "God Bless America" was
54 written at Camp Upton because Irving Berlin was an enlisted man
55 there in 1918, and my late father in law, Sidney Siben, all the
56 Sibens went the to war, and they all left through Camp Upton, and I

1 got the original letter that said don't even bring a toothbrush.
2 Everything you show up with will be burned. We'll give you
3 whatever you need. Fascinating part of Suffolk's history.

4
5 **LEG. ANKER:**

6 Very historical. I know a lot of my constituents celebrate.
7 Middle Island, Yaphank, they sing song; you know, it's a beautiful
8 part of our legacy and the history of Long Island. So science
9 questions: Having been a member of the CAC for probably over 20
10 years, now I'm working with you guys with the legislative panel
11 with B.N.L., but I have a couple questions. The two concerns I see
12 coming down in the future to worry about, of course, is
13 biotechnology, which we've seen to some extent, and also cyber
14 security. What is B.N.L. doing to address that?

15
16 **MR. MANNING:**

17 Biotechnology, we do a lot of research, as you can imagine, because
18 of the light source. Stony Brook has a higher biotechnology rating
19 than we do so we don't actually work with live samples. We test
20 components or pieces of Covid, for instance, so you don't actually
21 have a situation where you have the possibility, any kind of an
22 escape. If we expand our research at some point in the future, we
23 would have to upgrade our facility to do that. So what we are
24 doing is we are testing samples and testing pieces of samples.
25 There are other facilities, as you could imagine, that have a
26 higher biotechnology rate so it's not an issue for us because
27 that's not what we do.

28
29 In terms of cyber, we're part of the complex, the D.O.E. complex.
30 We have a superb I.T. department. We have a counterintelligence
31 office at the laboratory so there's a very, very high focus on
32 those issues at the laboratory understandably.

33
34 **LEG. ANKER:**

35 Are you working with the county right now? I don't know.

36
37 **LEG. ANKER:**

38 Not technically, no. I mean, we're not providing those services to
39 the county. It's not the business that we're in. Our cyber team
40 are focused entirely on maintaining D.O.E. standards within B.N.L.
41 itself. We don't provide I.T. services outside of the lab.

42
43 **LEG. ANKER:**

44 Yeah. Like Legislator Trotta had suggested, we might need a little
45 help. We continue to struggle with the cyber security issues, but
46 we appreciate all the science that you've been focusing on.

47
48 The last question I have for you is dealing with the solar panels,
49 I remember you had one of the largest solar arrays in the country,
50 and one of the biggest problems when I was at the Town of
51 Brookhaven running the solar programs was that a lot of the
52 equipment, a lot of the material was coming from other countries.
53 Do you see your country producing more of these types of materials
54 so that we can have the material from within the United States,
55 hire people from within the United States, and use that material?

1 **MR. MANNING:**

2 Well, it's a very good question. The solar array at the laboratory,
3 which we don't normally include in our tour because it's a long
4 road down, when it was installed nine year ago, it was the largest
5 on the east coast, largest east of the Mississippi. So it's 32
6 acres -- 200 acres, I should say, 32 megawatts. And that power
7 goes right into light the system at the substation right there.

8
9 One of the other advantages we have is that the Shoreham nuclear
10 plant had, and I won't go there, the Shoreham plant which only ran
11 for a day had a lot of transmission capability, so the Brookhaven
12 corridor is a good opportunity for offshore power off or wind power
13 when it comes.

14
15 In terms of what we're doing, you saw the chuck block was dropping
16 droplets onto his surface. We're doing interesting work on
17 surface. That hydrophobic surface where you saw the water
18 literally jump off instead of run off, that's one example where
19 turbine blades or ultimately solar panels, there could be greater
20 innovation into how it stays clean. Our panels tend to naturally
21 clean themselves. We have enough rain in Suffolk County that it
22 just works out well for us.

23
24 In terms of domestic supply chain, I think the big focus we have at
25 the moment is around offshore wind. The message is that if this
26 kind of investment is going to take place, they have the support,
27 the parts, the engineering. There's got to be a new domestic
28 industry. B.N.L., we were very helpful to Stony Brook in landing
29 the offshore wind center, which is based there, which is shared by
30 Bob Catell, and that was one of the primary arguments because if
31 you take funding from that organization, which was fund by NYSERTA
32 and the federal government, you have to maintain your intellectual
33 intellect property in the U.S., so that's the real focus. I won't
34 get into the solar array issue because there's a lot going on there
35 right now. You know, you're trading off costs, of course, to
36 material, but I do think there's a real opportunity to focus on
37 domestic industry as we go through this transition.

38
39 What we're doing at the lab is we're focused on magnet research,
40 for instance, because if we're going to have massive windmills,
41 this wind power -- GE is working on a prototype of 17 megawatts,
42 which is astonishing, but one of the limiters of the glade; another
43 limiter is the generator itself. So if we can use super conducting
44 magnets, then you can reduce the size of the generator so there's a
45 tremendous amount of innovation going into just the power
46 generation side, and that's where we're really focused.

47
48 And battery storage. We're going to need -- if we have all this
49 renewable power that is not running 24/7, we're going to need a lot
50 of battery storage, and that's a lot of our focus.

51
52 **LEG. ANKER:**

53 Yeah. And again, that was the biggest problem -- or another
54 problem was battery storage, you don't always have the sun for
55 solar panels, you don't always have the wind for wind energy. We
56 need to have a way to store that, and it sounds like B.N.L. is

1 working towards that goal.

2
3 **MR. MANNING:**

4 Well, and you see, where we're focused is we're doing work for
5 Mercedes Benz in terms of pout cells and transportation. So on a
6 vehicle, you need high density. You need very light weight and a
7 lot of power. You don't need that on the ground, so if you're
8 putting in battery storage for a network or for offshore wind or
9 for Suffolk County, you've got land, so you can have monster
10 batteries that weigh a ton because you are not having to move them
11 around, so it's a totally different approach to technology. The
12 priorities are different, and you can use different materials.

13
14 **LEG. ANKER:**

15 All right. And I promise, one more question, and then we can catch
16 up. Climate change. You mentioned you have a focus on climate
17 change. You know, we were here sitting working with a resolution
18 to partner with Brookhaven Town to raise the roads because sea
19 level is rising. Is there a partnership with the county at this
20 time or can there be to address zoning issues and, you know, moving
21 forward with development?

22
23 **MR. MANNING:**

24 Well, actually, our expertise is more on the science side so a good
25 example is major study in Houston right now because Houston has
26 huge storms. They are very exposed. They also have a lot of
27 pollution. There's a tremendous number of Petro chemical plants
28 that we don't have here. So there's a major study: Five national
29 labs, seven universities, federal government, and it's being led by
30 B.N.L., so that study, what they are looking at is they are looking
31 at the cause of storms. The person leading the study always says
32 to me, We know more about the giant squid that nobody's ever seen
33 than we do about storms. So we're not so much working on
34 adaptation as we are understanding the impact of climate change.

35
36 **LEG. ANKER:**

37 Thank you.

38
39 **CHAIRMAN MAZZARELLA:**

40 Thank you so much. Legislator Hahn.

41
42 **LEG. HAHN:**

43 Thank you. That was a fantastic video. I got chills.

44
45 **MR. MANNING:**

46 Thank you. It was produced on Long Island. It's a local firm,
47 Emmy award-winning firm. We are very proud of it. However you
48 should know, Legislator, that the entire leadership at the lab is
49 turning over very soon, so I'm going to have to do a reshoot.

50
51 (Laughter)

52
53 **LEG. HAHN:**

54 Good, so more dollars spent on local companies helping you and
55 marketing. You're here in Economic Development committee. This is
56 obviously a huge driver with the 3,000 jobs, most of them, really,

1 I imagine, scientists, highly paid.

2
3 **MR. MANNING:**

4 Yep.

5
6 **LEG. HAHN:**

7 Timeline for the -- what is it called?

8
9 **MR. MANNING:**

10 Electron ion collider .

11
12 **LEG. HAHN:**

13 Thank you. Electron ion collider. It's been a while since I have
14 looked at all these. What's the timeline on that second one? Was
15 it a two million or four billion investment on that?

16
17 **MR. MANNING:**

18 It's about two and a half billion.

19
20 **LEG. HAHN:**

21 Two and a half billion. Right.

22
23 **MR. MANNING:**

24 So RIC, relativistic heavy ion collider, is the current facility.
25 You may recall we were in competition with Virginia. Virginia has
26 a national lab that is also helping us now in developing this.
27 They would have been very happy to host it in Virginia in its
28 entirety, so it will be at B.N.L. with a lot of help from Jefferson
29 laboratory because they bring expertise. The design phase is going
30 on now. We will be hopefully into construction about the end of
31 '25. The RIC facility is scheduled to complete its work about
32 then, so the transition is we shut it down and immediately start to
33 build the electron ion collider. So we're actually doing work now
34 and spending money now, but it's all in design, so there will be --
35 the State of New York has given us a hundred million dollars. It
36 will be entirely in roads, buildings, infrastructure to support
37 this. There will be 12 or 13 buildings, new buildings required.
38 We'll be able to use the rings. It will take us probably about 10
39 years, but right now we're hoping that by early in the next decade,
40 we'll be actually operating, and as I indicated as an operating
41 budget, going out 20 years after that. So we've actually started
42 the project already, so when I said there's a 10-year run, we
43 actually hope to be operational in the 2031 timeframe, but there
44 will be a lot going on until that time.

45
46 **LEG. HAHN:**

47 Hopefully not like east side access in terms of the delays and cost
48 overruns for sure.

49
50 **MR. MANNING:**

51 This is a very complex machine, but I can't imagine the complexity
52 of building a new tunnel under New York City.

53
54 **LEG. HAHN:**

55 It's incredibly exciting. It's such an opportunity to further
56 advance science here on Long Island because clearly, you've been

1 at the forefront of that for decades already, and this is just,
2 again, increases the stamp on the map, so to speak, for Brookhaven
3 and across the world.

4
5 **MR. MANNING:**

6 Legislator, it's important to note, there's 1300 members of the
7 international user group. So there's 27 countries, I think 300
8 institutions, 1300 different science groups, all of whom are
9 waiting for this machine and hopefully helping design it. So this
10 -- Suffolk County becomes a hub for world science. This will be
11 the only machine of its kind in the world.

12
13 **LEG. HAHN:**

14 So are we training the pipeline of scientists that are going to
15 work there --

16
17 **MR. MANNING:**

18 Yes.

19
20 **LEG. HAHN:**

21 That are going to build these? It's really -- I'm sure many, many,
22 many, many millions of pieces and all different types of expertise
23 that's needed. How do we make sure that Long Island, Suffolk
24 County, you know, has a part in making it happen and our
25 children -- because the timeline we're talking, you know, junior
26 high schoolers right now could be working on it.

27
28 **MR. MANNING:**

29 Yes. STEM education, that is all within my group. That's a top
30 priority for the lab as I indicated. We have -- you know, without
31 Covid, we had over 300 students, interns funded by the federal
32 government at the laboratory, and we attract them and we try and
33 draw them back.

34
35 Here's my best story: I was taking a tour through the light source
36 the other day as you will come. John Hill leads the light source.
37 This brilliant, international English accent. Then we get to Sean
38 McSweeney, who is one of the most brilliant protein scientists in
39 the world, Liverpool. Love Sean. Then Sean is able to do his work
40 more effectively because they've developed a new robot system so
41 that you put your samples in 50 at a time. They're frozen and this
42 robot zaps them through in a very rapid period of time. The young
43 individual running the robot was from Patchogues, and he had gone
44 to Suffolk Community College. He had gone from there to Stony
45 Brook, and now he's at the lab developing and running these amazing
46 robots, so there's the snapshot right there.

47
48 **LEG. HAHN:**

49 I love that.

50
51 **MR. MANNING:**

52 We need all kinds of talent, and whenever we can source local, we
53 do.

54
55 **LEG. HAHN:**

56 Excellent. What kind of connections -- and I mean physical not

1 just partnerships but getting to and from Stony Brook, do you
2 partner with Cold Spring Harbor? I'm sure you do.

3
4 **MR. MANNING:**

5 We do.

6
7 **LEG. HAHN:**

8 This is the whole triangle we've been talking about for decades.
9 What else can help us build what's -- because so much more is
10 coming and we need to be able to house -- and I don't just mean
11 house as in "housing" but that too.

12
13 **MR. MANNING:**

14 These are real issues. I mean, number one, there is an initiative
15 now to move the Yaphank rail station, and you're all dedicated
16 civil servants, and I'm sure none of you have used the Yaphank
17 station. It's not a loss, but it will go to Brookhaven, and that's
18 going to be terrific because every other major science facility in
19 the world has access to public transportation, so now we will
20 finally have a link. We'll need a shuttle bus, but it's going to
21 be a three-minute ride instead of 30 minutes to Ronkonkoma. You
22 have to understand that federal vehicles drive at 55 miles an hour
23 even on the L.I.E., so that will be much more efficient for us for
24 our users to get in. It connects us with Ronkonkoma. It'll
25 connect us with the city. It'll connect us in many ways.

26
27 Number two: AVR have been doing an awful lot of work across the
28 road from us. There will be several new restaurants opening up
29 this summer. That's huge for us. Home To Suites has been a game
30 changer. We actually have 60,000 room nights at the lab. We have
31 our own facilities, but those facilities date to the second war for
32 the most part, so if we have a well-funded scientist, they would
33 prefer to stay at a hotel in the area. If we have, you know, a
34 student who's with us --

35
36 **LEG. HAHN:**

37 Than the old barracks.

38
39 **MR. MANNING:**

40 Yeah, they are in the barracks. And we use those for our interns
41 and they enjoy them, but if you have a very limited research
42 budget, you're in the barracks. In you're well-funded and you're
43 coming in from Lockheed Martin, you're at Home to Suites.

44
45 **LEG. HAHN:**

46 We also have the network of the north shore next to Legislator
47 Anker, the rail trail, the north --

48
49 **MR. MANNING:**

50 The new bike trail?

51
52 **LEG. HAHN:**

53 Rail trail, yeah, I was right. It sounded wrong coming out of my
54 mouth. Yes, I mean, that actually can connect those who want to
55 ride their bicycle between Stony Brook and --

1 **MR. MANNING:**

2 We do have scientists --

3
4 **LEG. HAHN:**

5 I imagine there are a few.

6
7 **MR. MANNING:**

8 That ride their bikes between Stony Brook and the lab. It's a
9 haul, but we do have them.

10
11 **LEG. HAHN:**

12 We'll have to work on making sure William Floyd has a hike-bike
13 trial as well.

14
15 **MR. MANNING:**

16 Well, that will be an issue for us because we want to increase the
17 access to the AVR. I don't know if you've heard this, but when
18 Walmart opened their doors after one week, they doubled their
19 expectations. I mean, that project is just booming, and it's an
20 amenity issue for us. We have a food service challenge at the lab
21 because of Covid, and we're just live off food trucks so the
22 opportunity now for a brew hub and those kind of facilities, it's
23 exciting for us.

24
25 **LEG. HAHN:**

26 So two other quick questions. Future projects that haven't -- the
27 money hasn't been gotten yet. Is there anything in the works:
28 Cars, Mars material?

29
30 **MR. MANNING:**

31 A perfect example is we went to the state a number of years ago for
32 a cryogenic electron microscope, which they funded fully, and it
33 was largely designed around biofuels and understanding, and a
34 different way of looking at samples. It was to be finished at the
35 end of 2020, and what happened in January of 2020? The Covid
36 appeared, and we discovered that it was the best machine to take
37 pictures of the bug, so we worked around the clock and we managed
38 to get it operational by July, and the best -- some of the best
39 work, we believe, in Covid research is going on at that facility,
40 our laboratory for biomolecular structure entirely funded by the
41 State of New York and attached to to this billion dollar federal
42 machine. The next iteration, what we've learned from that machine,
43 tells us that we need a new machine which could take advantage of
44 that machine. We're getting \$2 million a year now from the federal
45 government to operate the current lab that just opened. This will
46 increase it to five million a year revenue or funding coming in to
47 run, so we want to build this next one because this will get us
48 ready for the next pandemic, give us a better understanding of how
49 these mutations take place, so that's kind of a next big machine
50 much more in the future. We have unique capabilities. We could be
51 looking at the materials in some of our aging power plants to
52 figure out what their real lifespan is. One day, if there are
53 samples coming from Mars, the best place to look at those samples
54 would be at our lightsource, but if they're coming from Mars, then
55 that requires an entire different level of security, so these are
56 all just speculative discussions, but yes there's lots of

1 opportunity going forward to expand into other areas.

2
3 **LEG. HAHN:**

4 This is my last question, and I know everyone will be with that.
5 And I'm sorry, that colorful wheel, I didn't fully, you know, take
6 it all in. Any materials, science around plastics?

7
8 **MR. MANNING:**

9 Yes, we do. Material science is a big part of what we do. We have
10 the Center for Functional Nanomaterials, CFN. We do a lot of work
11 on material science, and that is largely because of the
12 availability of those machines. A perfect example was the
13 hydrophobic surface that you saw in the video, so not only have
14 created a hydrophobic surface that repels water or moisture but
15 it's also super black so that something like a solar array, it
16 absorbs all of that. But we're doing all kinds of work on
17 filtration and what not.

18
19 **LEG. HAHN:**

20 Yeah. So a local problem being trash, as you well know, on Long
21 Island and what do do with it.

22
23 **MR. MANNING:**

24 Mount Brookhaven is going to be closed, yes.

25
26 **LEG. HAHN:**

27 Yes. And so, you know, getting plastics out of our waste stream,
28 glass, finding new uses for glass and things would be helpful. I
29 know you're in the basic science mostly, but there are things that
30 the local community needs help with as does the entire world with
31 plastics for sure.

32
33 **MR. MANNING:**

34 Right. As you know, our focus is foundational science that we're
35 part of a large network of research and there are other labs that
36 are more on the applied side, but a lot of the understanding that
37 we can come up with in terms of understanding materials at the
38 atomic level are very helpful to other scientists who are working
39 more on that space. It all fits.

40
41 **CHAIRMAN MAZZARELLA:**

42 Thanks so much. Legislator Richberg.

43
44 **LEG. RICHBERG:**

45 Thank you. Thank you, Mr. Chair, and thank you for coming and
46 presenting to us, and I know we've spoken in the past, and I heard
47 something that sort of keyed my interest. So you mentioned that
48 you have a video that you presented to us was a local company and
49 with all of this funding coming in, \$3 billion for this, \$2 billion
50 for that, is there a way to ensure that local businesses, local
51 construction companies, however, are getting -- are able to get
52 these contracts? One, because that's these folks in all of our
53 communities, but two, also get the expertise so then they can bid
54 on other projects nationwide. You know, you're saying you're one
55 of two of colliders or one of two anything around the country, I
56 think it's important that we can get that expertise here because

1 some things have happened over the last 30 of my lifetime,
2 definitely, is that we used to be one of the largest producers of
3 engineers and scientists and, you know, that's all gone by the
4 wayside. So if we're able to get that expertise here, it'd be
5 great.

6
7 **MR. MANNING:**

8 Legislator, that is a top priority, and we do have one of the
9 slides, and I should have probably featured it there, there's a
10 tremendous -- the numbers are, just in terms of our economic impact
11 on Suffolk County, are all documented, and those numbers came from
12 Mary Rogers. Now, Mary Rogers is in the procurement area. She's a
13 Suffolk resident and a great friend, and her focus is minority and
14 small business procurement at the lab. She has a team and that's
15 what she does.

16
17 Another good example is you know Suffolk County has one of the
18 highest populations of veterans in the country, if I'm not
19 mistaken. We have a number of veterans, and we have a very strong
20 veterans group at the lab. We're actually giving courses. We're
21 actually coaching veterans on how to apply at B.N.L. and how to
22 adapt their skills and what sort of training that would be
23 beneficial. So we have an active group with veterans, we have an
24 active group with minority- and women-owned businesses as you can
25 appreciate, so we're very focused on that. To be clear, we do have
26 job openings. We are short a number of engineers now, and we are
27 having trouble finding them, and that's an issue.

28
29 **LEG. RICHBERG:**

30 Not for nothing, though, we need some engineers too. But I guess
31 so are you partnering or working with our Economic Development
32 department here and maybe our IDAs as well? Because if you are
33 looking for certain fields and certain expertise, I mean, I think
34 we should have a more strategic approach when we are looking to
35 bring businesses in here so we're supplementing the work that
36 you're doing.

37
38 **MR. MANNING:**

39 You know, Sarah was at the lab just last week. We absolutely want
40 to do more and Suffolk County has been reaching out to us, so that
41 work continues, absolutely, and there's a real focus and we work
42 with Brookhaven, we work with Islip. We are very enthused about
43 all those who want to drive economic development here because we
44 recognize that we are a tremendous asset.

45
46 **LEG. RICHBERG:**

47 And I think as we look towards getting, you know, different housing
48 opportunities and the like, you know, you're saying that housing is
49 an issue for the folks at B.N.L.; well, we're spending millions and
50 millions of dollars every year, if not hundreds of millions on
51 housing opportunities. And so I think that's an area we should be
52 working more strategically at again with our state partners and
53 what have you to make sure we are putting together the right
54 housing opportunities in the area that's approachable for B.N.L.,
55 so anything that we could do, I would love to sit down.

1 **MR. MANNING:**

2 Well, that's very important because, as I said, it's a competitive
3 universe. We want to attract the best available. We want to
4 employ our local students clearly, but we also want to attract some
5 of the best scientists and mission support people, and that's an
6 issue for us. It has to be accessible, it has to be affordable.
7 The work is phenomenal. They love the work, but we also have to
8 support the people because we want them to live here as well.

9
10 **LEG. RICHBERG:**

11 Thank you.

12
13 **CHAIRMAN MAZZARELLA:**

14 Thank you, Legislator. Legislator Thorne.

15
16 **LEG. THORNE:**

17 I just want to, real quick, thank you for what you do and thank
18 your fire and EMS service who obviously works well with the rest of
19 the county especially when it comes to brush fires. You guys
20 deploy that brush truck pretty regularly --

21
22 **MR. MANNING:**

23 Absolutely.

24
25 **LEG. THORNE:**

26 And we appreciate that. As the chair of Fire Rescue, it's
27 important. And the last statement is of course the girl was from
28 Patchogue that operates that robot because District 7 has
29 incredible people. That will be about it. But thank you for what
30 you're doing; we appreciate it.

31
32 **MR. MANNING:**

33 Thank you very much, Legislator.

34
35 **P.O. MCCAFFREY:**

36 I'm sorry. I thought it was a physics question.

37
38 **LEG. THORNE:**

39 Yes, she physically resides in my district.

40
41 **P.O. MCCAFFREY:**

42 If I may, Mr. Chairman. David, thank you for coming here today and
43 doing this presentation. We look forward to receiving your
44 invitation to come out and visit firsthand, and we have a lot of
45 things in the county. We look for a collaboration with yourself
46 and also with Cold Spring Harbor and Stony Brook and other great
47 institutions that we have. We hope to kind of use that all
48 together to bring some real good economic development here to
49 Suffolk County.

50
51 **MR. MANNING:**

52 Thank you, Presiding Officer. We're very pleased that we have this
53 access. We appreciate the opportunity today and the interest, and
54 we look forward to hosting you, and you've always been very open
55 and accessible, and will we really appreciate that, Mr. Chairman.
56 Thank you.

1 **CHAIRMAN MAZZARELLA:**

2 Thank you. And while we're on the topics of thank yous, there's no
3 one on this horseshoes that can thank you more than myself. The
4 fact that my father is a 27-year employee there, long retired. So
5 I thank you for my degree. I thank you for the food that was in my
6 belly for those 27 years.

7
8 **MR. MANNING:**

9 Knowing the neighborhood where you grew up, I was pretty sure there
10 was a connection and you would tell us.

11
12 **CHAIRMAN MAZZARELLA:**

13 Absolutely. Thanks very much. I think you are probably going to
14 have a lot more of us then who's just on the horseshoe so if you
15 will indulge and set that invitation up and --

16
17 **MR. MANNING:**

18 You bet.

19
20 **CHAIRMAN MAZZARELLA:**

21 -- hopefully you won't limit us to number of people because we are
22 getting some requests already to join.

23
24 **MR. MANNING:**

25 Absolutely. We will work with the schedule. We may have to do it
26 over two visits depending on your calendars, but we'll make it
27 work. Super.

28
29 **CHAIRMAN MAZZARELLA:**

30 Excellent. Thank you again for being here.

31
32 **LEG. TROTTA:**

33 As long as you have lunch. We like to eat.

34
35 **MR. MANNING:**

36 We'll figure that out.

37
38 **CHAIRMAN MAZZARELLA:**

39 Fantastic. Thank you again.

40
41 **MR. MANNING:**

42 Thanks very much, Mr. Chairman. Thank you, all.

43
44 **CHAIRMAN MAZZARELLA:**

45 All righty. We're going move into resolutions. We'll start with
46 tabled resolutions.

47
48 **1954, Sale of County owned real estate pursuant to Section 72-h of
49 the General Municipal Law Village of Patchogue (SCTM Nos.**

50 **0204-023.00-02.00-005.000, 0204-020.00-03.00-034.001,**

51 **0204-020.00-04.00-004.000, 0204-020.00-05.00-004.000,**

52 **0204-023.00-02.00-007.000, 0204-020.00-05.00-003.000,**

53 **0204-019.00-09.00-001.000 and 0204-020.00-03.00-010.000).** (Thorne)

54 I think we're going to move to approve this.

55
56 **LEG. TROTTA:**

1 I'll second it for sake of -- I just want to know a little bit
2 about this. Is this a Sandy property or something? Is there
3 somebody from the County Executive we could talk to about this?
4

5 **MR. JOYNER:**

6 Good afternoon. Sidney Joyner, director of real estate. Yes, so
7 this is -- you're correct. This is the properties that were
8 involved in Sandy.
9

10 **LEG. TROTТА:**

11 How big are they?
12

13 **MR. JOYNER:**

14 Gross square footage?
15

16 **LEG. TROTТА:**

17 Half an acre, an acre? Is it an old house? What is it?
18

19 **MR. JOYNER:**

20 I'm looking here. I have the maps here but I can't --
21

22 **LEG. TROTТА:**

23 Yeah, we didn't get the maps. That's why I'm asking.
24

25 **MR. JOYNER:**

26 I'll pass them around.
27

28 **LEG. TROTТА:**

29 Oh. It's waterfront literally. So these structures are all gone,
30 I'm assuming.
31

32 **MR. JOYNER:**

33 Yes. So it's at the end of Dewitt Avenue, is that it?
34

35 **LEG. TROTТА:**

36 That is correct. I'm just trying to see what the gross -- and
37 we're just giving this to the Village of Patchogue and they are
38 going to be responsible for it?
39

40 **MR. JOYNER:**

41 Yes.
42

43 **LEG. TROTТА:**

44 And they can never build on it?
45

46 **MR. JOYNER:**

47 Yes, that is correct. They have to be preserved.
48

49 **LEG. TROTТА:**

50 All right. I guess it doesn't matter. Thank you.
51

52 **CHAIRMAN MAZZARELLA:**

53 Anyone else while we have the director?
54

55 **LEG. ANKER:**

56 I have a question.

1
2 **CHAIRMAN MAZZARELLA:**
3 Legislator Anker.

4
5 **LEG. ANKER:**
6 Just a real quick question pertaining to your department. Are you
7 able to get on your computer to locate the meets and bounds or the
8 tax ID numbers? Because I know we have it here for legislature but
9 I know my office has been in touch with you because I'm trying to
10 move a resolution. Is there some issue with cyber security?

11
12 **MR. JOYNER:**
13 Yes, that has been a problem for us using the platform. We're
14 still working through that.

15
16 **LEG. ANKER:**
17 Is there any way to get the meets and bounds available so I can
18 move forward with resolutions?

19
20 **MR. JOYNER:**
21 Can I respond to you by the end of the day?

22
23 **LEG. ANKER:**
24 Absolutely.

25
26 **MR. JOYNER:**
27 Because I'll speak to our other appraiser and surveyor to see what
28 products they are using.

29
30 **LEG. ANKER:**
31 That would be wonderful. Thank you.

32
33 **MR. JOYNER:**
34 Not a problem.

35
36 **CHAIRMAN MAZZARELLA:**
37 Question, Legislator Hahn.

38
39 **LEG. HAHN:**
40 I have a question. So we are -- these properties -- did we get
41 funding from the NRDC for this?

42
43 **MR. JOYNER:**
44 I was not -- I was not provided information that we received any
45 funding from the NRDC.

46
47 **LEG. HAHN:**
48 So the sale of county-owned -- so I don't have the bill in front of
49 me, so what do we get in return for giving this to the Village of
50 Patchogue. Are they covering the costs that we've been paying for
51 taxes over the years?

52
53 **MR. JOYNER:**
54 That's right, three years of taxes.

55
56 **LEG. HAHN:**

1 And so they're paying it for all of them?

2

3 **MR. JOYNER:**

4 They were waived.

5

6 **LEG. HAHN:**

7 We're waiving?

8

9 **MR. JOYNER:**

10 (Affirmative response.)

11

12 **LEG. HAHN:**

13 And do you know how much that is? What's the fiscal impact?

14

15 **MR. JOYNER:**

16 I have it here as approximately \$110,000.

17

18 **LEG. HAHN:**

19 For all of them?

20

21 **MR. JOYNER:**

22 Yes. Just in taxes prior to the three years were left in place,
23 approximately \$110,000.

24

25 **LEG. HAHN:**

26 And this is -- what's the total acreage?

27

28 **MR. JOYNER:**

29 Yeah. Sorry. I was trying to find that this morning. I don't
30 have that, but I can get it to you.

31

32 **LEG. HAHN:**

33 Sorry. Yeah, yeah, yeah. Maybe by Wednesday for the general
34 meeting if you can get us total acreage --

35

36 **MR. JOYNER:**

37 Not a problem.

38

39 **LEG. HAHN:**

40 -- total numbers of lots, total acreage, the total amount in back
41 taxes that we are waiving in order to give to them. So we're
42 paying --

43

44 **LEG. TROTТА:**

45 It's about two and a half acres roughly.

46

47 **LEG. HAHN:**

48 Thank you. Using your brain calculator?

49

50 **LEG. TROTТА:**

51 I just added -- when you go to that, you add up the maps and it's
52 about -- I don't have quantum things going on in my mind.

53

54 **LEG. RICHBERG:**

55 You've been waiting to use the word "quantum" for about five
56 minutes.

1
2 **CHAIRMAN MAZZARELLA:**

3 Thank you. Before we move, we're going to just hear from
4 Legislator Thorne. It's in his district.

5
6 **LEG. THORNE:**

7 Thank you so much. These were FEMA properties from Sandy that have
8 been sitting in our inventory since Sandy pretty much. They were
9 originally property of Village of Patchogue. They were taken
10 because when they transferred it over to the town, they forgot to
11 take the tax liens off it. So we took them. They are eight
12 separate properties, undevelopable land, must be used for open
13 space, can't put a tree on it, can't put a fence on it, can't put
14 anything on it, and we're transferring it over to the Village of
15 Patchogue as open space so we don't continue to pay any taxes on it
16 as well or have any liability on the premises.

17
18 **LEG. HAHN:**

19 So we had gotten similar -- weren't there similar properties in
20 Mastic/Shirley many several years ago now where we had gotten
21 funding from the federal government too -- you know, because they
22 were Sandy properties, because we could take them back and turn
23 them into, you know, protecting from a resiliency standpoint the
24 federal government would pay through NRDC. Has there been an
25 investigation as to whether these would qualify for that, was
26 really my question so that we could get that 110,000 or more back
27 for them.

28
29 **MR. JOYNER:**

30 I would suggest I can pursue that to see if that is the case, and I
31 could respond as well.

32
33 **LEG. HAHN:**

34 There may be a reason they don't qualify. I'm just asking the
35 question.

36
37 **MR. JOYNER:**

38 Yes, there very well may be, yes. I appreciate that.

39
40 **CHAIRMAN MAZZARELLA:**

41 All righty. If that's it, we have a motion and a second. All in
42 favor? Opposed? Abstentions?

43
44 **CHIEF DEPUTY CLERK ROBINSON:**

45 Six.

46
47 **CHAIRMAN MAZZARELLA:**

48 1954 is an approved.

49
50 Moving on. Introductory Resolutions, 1979, Designating Discover
51 Long Island, Inc. As the official tourism promotion agency of
52 Suffolk County. (Co. Exec.)

53
54 I am going to move to table this. Heard from a couple of
55 legislators who have questions for this agency, one of them being
56 Legislator Bergin who was not able to be here today, and I also

1 spoke with Legislator Al Krupski who had questions as well, so we'd
2 like to invite this organization here, you know, next cycle and
3 maybe get a Q and A with them and I'll arrange the invitation to
4 them. I'll make the motion.

5
6 **LEG. TROTTA:**
7 I'll second the motion.

8
9 **CHAIRMAN MAZZARELLA:**
10 All in favor? Opposed?

11
12 **LEG. HAHN:**
13 Opposed.

14
15 **CHAIRMAN MAZZARELLA:**
16 Abstentions?

17
18 **CHIEF DEPUTY CLERK ROBINSON:**
19 Five.

20
21 **CHAIRMAN MAZZARELLA:**
22 1979 is tabled. There being no procedural motions, home rule
23 messages, executive sessions or tabled subject to call, this
24 committee is now adjourned. Thank you.

25
26 (The committee meeting was adjourned at 1:30 p.m.)
27
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