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NEW YORK CITY TEACHERS' RETIREMENT SYSTEM  
BOARD MEETING

Held on Thursday, December 19, 2019, at 55 Water  
Street, New York, New York

ATTENDEES:

- DEBRA PENNY, Chairperson, Trustee
- DAVID KAZANSKY, Trustee
- THOMAS BROWN, Trustee
- JOHN ADLER, Trustee
- SUSANNAH VICKERS, Trustee
- NATALIE GREEN-GILES, Trustee
- VALERIE BUDZIK, Teachers' Retirement System
- PATRICIA REILLY, Teachers' Retirement System

REPORTED BY:

YAFFA KAPLAN  
JOB NO. 4467984

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2       ATTENDEES (Continued):

3           KAVITA KANWAR, Teachers' Retirement System

4           SUSAN STANG, Teachers' Retirement System

5           ANNETTE HANHARAN, Teachers' Retirement System

6           LIZ SANCHEZ, Teachers' Retirement System

7           ANDREW BRADFORD, Teachers' Retirement System

8           ANTHONY MEZZACAPPA, Teachers' Retirement System

9           ROBERT BETHELMEY, Teachers' Retirement System

10          RENEE PEARCE, Teachers' Retirement System

11          ISAAC GLOVINSKY, Teachers' Retirement System

12          PAUL RAUCCI, Teachers' Retirement System

13          MARTA ROSS, ESQ., Law Department

14          SHERRY CHAN, Office of the Actuary

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1 Proceedings

2 MS. REILLY: Good afternoon. Welcome to  
3 the Teachers' Retirement Board meeting of  
4 December 19, 2019. I will start by calling  
5 the roll. John Adler.

6 MR. ADLER: I am here.

7 MS. REILLY: Thomas Brown?

8 MR. BROWN: Here.

9 MS. REILLY: Natalie Green-Giles?

10 MS. GREEN-GILES: Here.

11 MS. REILLY: David Kazansky?

12 MR. KAZANSKY: Present.

13 MS. REILLY: Lindsey Oates? Russell  
14 Buckley? Debra Penny?

15 MS. PENNY: Here.

16 MS. REILLY: Susannah Vickers?

17 MS. VICKERS: Here.

18 MS. REILLY: We have a quorum. So next  
19 on the agenda is an update on TRS operations,  
20 given to us by Kavita Kanwar.

21 MS. KANWAR: Thank you, Patricia. TRS  
22 is completing the processing of required  
23 minimum distributions or RMDs for the tax year  
24 2019. RMDs are paid to certain retirees who  
25 are maintaining their TDA accounts but have

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## Proceedings

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reached age 70 and a half. About 16,600

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retirees will receive their distribution in

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December of this year. About two-thirds of

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these are members who did not make a specific

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choice about how to receive the distribution

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but are required to receive payment by the

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year end. About 1,000 beneficiaries who

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participate in our TDA B program will also

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receive RMDs this month.

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On January 1, 2020, a new plan year goes

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into effect for Tier 6 members, which means

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their pension contribution rate may change.

14

Based on the rules governing Tier 6, TRS has

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reviewed and updated salary and wage

16

information for all Tier 6 members, and

17

approximately 9,900 will have a new rate

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starting in January. Earlier in December, TRS

19

conducted an e-mail campaign to members about

20

our TDA program. Over 130,000 members

21

received messages encouraging participation

22

and mentioning the new contribution limits for

23

the year 2020. Thank you.

24

MS. REILLY: Thank you, Kavita. Next on

25

the agenda is the executive director's report,

1 Proceedings

2 and the first item on the report is the matter  
3 of the next meeting. It's been suggested that  
4 the next regular meeting of the Teachers'  
5 Retirement Board be held on the fifth Thursday  
6 of the month, January 30, 2020. So everyone  
7 should mark their calendar.

8 Next is a resolution, authorization to  
9 the Comptroller of the City of New York to  
10 invest certain QPP funds.

11 MR. KAZANSKY: Please waive the reading.

12 MS. REILLY: Debra, I think we need a  
13 vote.

14 MS. PENNY: Is there a motion?

15 MR. KAZANSKY: So moved.

16 MS. PENNY: Is there a second?

17 MR. ADLER: Second.

18 MS. PENNY: All those in favor? Aye.

19 MR. ADLER: Aye.

20 MR. BROWN: Aye.

21 MS. GREEN-GILES: Aye.

22 MR. KAZANSKY: Aye

23 MS. VICKERS: Aye.

24 MS. PENNY: Any opposed? Any abstain?

25 Motion carries.

1 Proceedings

2 MS. REILLY: Next is the resolution,  
3 authorization to the Comptroller of the City  
4 of New York to invest certain tax-deferred  
5 annuity funds.

6 MR. KAZANSKY: Please waive the reading.

7 MS. PENNY: Is there a motion?

8 MR. KAZANSKY: So moved.

9 MS. PENNY: Thank you. Is there a  
10 second?

11 MR. BROWN: Second.

12 MS. PENNY: All those in favor? Aye.

13 MR. ADLER: Aye.

14 MR. BROWN: Aye.

15 MS. GREEN-GILES: Aye.

16 MR. KAZANSKY: Aye

17 MS. VICKERS: Aye.

18 MS. PENNY: Any opposed? Okay, motion  
19 carries.

20 MS. REILLY: Next is an extension of  
21 participation in the Common Investment  
22 Meeting.

23 MR. KAZANSKY: Please skip to the  
24 resolved.

25 MS. REILLY: "Resolved, the Teachers'

1 Proceedings

2 Retirement Board extends for a one-year period  
3 its participation in the Common Investment  
4 Meeting as described on and separate to the  
5 conditions of the Board's 2015 and 2016 CIM  
6 resolutions, and be it further resolved  
7 nothing in this resolution shall abrogate any  
8 rights or waive any responsibilities reserved  
9 for the Board of Trustees under applicable  
10 law".

11 MS. PENNY: Is there a motion?

12 MR. ADLER: So moved.

13 MS. PENNY: Is there a second?

14 MR. KAZANSKY: Second.

15 MS. PENNY: All those in favor? Aye.

16 MR. ADLER: Aye.

17 MR. BROWN: Aye.

18 MS. GREEN-GILES: Aye.

19 MR. KAZANSKY: Aye

20 MS. VICKERS: Aye.

21 MS. PENNY: Any opposed? Motion

22 carries.

23 MS. REILLY: Next is the Emerging Market

24 Company Review Policy.

25 MR. KAZANSKY: Again, please skip to the

1 Proceedings

2 resolved.

3 MS. REILLY: "Resolved, that the Board  
4 adopts the attached Emerging Market Company  
5 Review Policy, and be it further resolved that  
6 in furtherance of the Emerging Market Company  
7 Review Policy, within 90 days of submission to  
8 the Board of reports from the ESG Review  
9 Vendors, staff and an independent investment  
10 consultant will submit to the Board  
11 recommended criteria as specified in the  
12 policy to facilitate consideration of  
13 identified financial and reputational risks;  
14 and resolved that the Interim Public Emerging  
15 Market Policy will remain in place until  
16 further action by the Board".

17 MS. PENNY: Thank you. Is there a  
18 motion?

19 MS. VICKERS: So moved.

20 MS. PENNY: Thank you. Is there a  
21 second?

22 MR. KAZANSKY: Second.

23 MS. PENNY: Is there any discussion on  
24 this? Are we all good with it? Okay. All  
25 those in favor? Aye.



1 Proceedings

2 MR. ADLER: Aye.

3 MR. BROWN: Aye.

4 MS. GREEN-GILES: Aye.

5 MR. KAZANSKY: Aye.

6 MS. VICKERS: Aye.

7 MS. PENNY: Any opposed? Motion

8 carries.

9 MS. REILLY: Okay. Next is the  
10 calendar. And it's the approval of the  
11 minutes for the month of October 3rd  
12 investment meeting minutes, October 30th board  
13 meeting minutes, November 7th investment  
14 meeting minutes, November 20th CIM minutes,  
15 and November 21st board meeting minutes.

16 MS. PENNY: Thank you. Is there a  
17 motion to approve all of the minutes of those  
18 meetings?

19 MR. BROWN: So moved.

20 MS. PENNY: Thank you. Is there a  
21 second?

22 MS. VICKERS: Second.

23 MS. PENNY: All those in favor? Aye.

24 MR. ADLER: Aye.

25 MR. BROWN: Aye.

1 Proceedings

2 MS. GREEN-GILES: Aye.

3 MR. KAZANSKY: Aye

4 MS. VICKERS: Aye.

5 MS. PENNY: Any discussion? All those  
6 opposed? Okay. Motion carries.

7 MS. REILLY: So for the rest of the  
8 calendar, the Board has received an electronic  
9 version of the calendar.

10 MR. KAZANSKY: You can waive the  
11 reading.

12 MS. REILLY: Thank you. So just a  
13 motion.

14 MS. PENNY: Is there a motion to adopt  
15 it?

16 MR. BROWN: So moved.

17 MS. PENNY: Is there a second?

18 MS. VICKERS: Second.

19 MS. PENNY: All those in favor? Aye.

20 MR. ADLER: Aye.

21 MR. BROWN: Aye.

22 MS. GREEN-GILES: Aye.

23 MR. KAZANSKY: Aye

24 MS. VICKERS: Aye.

25 MS. PENNY: Any opposed? Motion

1 Proceedings

2 carries. We have adopted the calendar.

3 MS. REILLY: Next under other business  
4 is a presentation by Kavita on data  
5 governance.

6 MS. KANWAR: Good afternoon. My name is  
7 Kavita Kanwar, and I am going to be presenting  
8 to you our formal data governance program, how  
9 we are going about establishing it. So as  
10 part of the agenda, we are going to be  
11 defining the term "data governance", some of  
12 the expected value of, proposition from the  
13 data governance program. How are we going  
14 about developing the overall program and our  
15 current status, where are we with this  
16 program?

17 So data governance is needed because  
18 data and information are what we rely on to do  
19 our jobs on a day-to-day basis, service our  
20 members, and report to our stakeholders. We  
21 need policies and procedures in place to make  
22 sure that we are managing it correctly. So  
23 data governance is the exercise of  
24 authoritarian control, which is basically  
25 planning, managing, and enforcement of our

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data asset. So what you see on here on the pie chart are the ten knowledge areas that are prescribed by the Data Management Association, which is also known as DAMA, which is basically the practices of the formal data governance program.

Data governance is very central to all our technical and system related areas that are involved in the capture and flow of data within the organization. So procedures are required in each of these areas to support our policies when it comes to safeguarding our data. Understanding the need for better data governance, TRS has made it part of its strategic vision. So some of the objectives for the overall data governance program are safeguarding the integrity of its data as a critical asset, reduce the costs associated with addressing the data problems, increase the organization's shared understanding of its data, and enable effective decision making regarding the structure and content, the content during our agency's modernization effort and thereafter for our regular

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2 operations.

3 So one of the key parts of the data  
4 governance is to establish an authoritative  
5 data dictionary. So TRS data dictionary is an  
6 online, easily accessible repository that  
7 includes a catalog of all the data elements  
8 used by the various databases by the TRS  
9 applications. The TRS data dictionary allows  
10 the linkages of business terms to the  
11 technical terms and leads to a shared  
12 understanding of data terminology both on the  
13 technical side as well as on the business  
14 side. The dictionary is a key tool for  
15 self-service reporting and understanding  
16 system impacts when the business rules change  
17 or the applications are modified.

18 So in here what we see is an example.  
19 So "In-service member" is a very commonly used  
20 term here at TRS. And what the slide tries to  
21 present is that one area of the organization I  
22 may assume that in-service member is somebody  
23 who is actively engaged in day-to-day work,  
24 reports to work every day, whereas some other  
25 area may be thinking that an in-service member

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2 is somebody who is in active service as well  
3 as somebody who is on leave. So the question  
4 is how do we come to a resolution wherein  
5 everybody understands this term in the right  
6 way or what should be the right way? So the  
7 data governance program lays down the process  
8 that will enable the organization to achieve  
9 this shared understanding. They will bring  
10 all the departments involved to collaborate  
11 and come to the common definition.

12 So in this case you see how we did come  
13 to a common acceptable definition to all the  
14 different areas, and it is somebody --  
15 actually an in-service member is somebody who  
16 is actively working as well as is on leave of  
17 up to seven years. So that's the acceptable  
18 definition across the organization. So the  
19 group that includes the data governance  
20 organization is basically the data governance  
21 program manager that we represent data from  
22 areas from different departments. They are  
23 called data stewards as well as IT data  
24 managers who are also commonly referred to as  
25 data custodians, and they will all meet

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together to craft the definition and come to a consensus and approve the publication to the TRS data dictionary. So data governance organization is also responsible for ongoing maintenance of this, and if any updates are needed, they will be coming together again to ensure that, you know, we come to a common consensus.

So another part of data governance is to formulate policies and procedures. So in this slide basically what we are seeing is that address information is a key component for applying data governance. So the data governance policy regarding address data helps us to ensure that the data quality and completeness is achieved for a person's address. So what is demonstrated on this slide is that data is coming into TRS through different sources. So some of the sources could be employers sending us data feeds such as DOE, CUNY, and charter schools, or the member could be themselves entering this information using our member portal. So one of the elements of address field is the state

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data. So in here what is being demonstrated is the State of New York is being provided in many different formats. As you can see here, somebody is using a short form. Some other source would be using different cases for providing that information, but once we apply the data standardization process and procedures to that intake of the feeds and as the data is coming into our databases, it ensures consistency.

So when we are bringing in this data, it's coming in as this is New York, which is what is being shown, and that's how we are bringing it into our database. So this is the data standardization process. Another example. So further building on that is how we -- in here we are demonstrating that along with the data standardization, we are also validating data, so that's another of the procedure that gets applied. And what the data validation procedure is trying to accomplish is ensure completeness and accuracy of the data. So on the address field there are certain -- under address data there are



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certain fields that are required. So like address line one, the city, state are required feeds and the ZIP code. So when the data is reported and again being brought in through the data feeds, we are ensuring that we are validating those pieces of information and only bringing it once they conform to the validation groups, which would be that it should be filled out, that it should be in a certain format, and that it should be reported. You know, it could be validating with external sources like Melissa data in kind of trying to standardize, so what's going to come through is what's feeding our standard, which is one of the examples. The other one where it's incomplete is going to actually fall out as an exception and those exceptions would be brought back to the source of the information which could be an employer in this case could be DOE or CUNY or the charter school and they are required to fix that data and resolve it before we can bring it into our system.

So once the data is complete,

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2 standardized and accurate, reporting of data  
3 becomes very easy. As a member centric  
4 organization, this furthers our goal of  
5 achieving operational excellence. That is  
6 through straight-through processing and  
7 providing member satisfaction by having  
8 complete and timely information. So it  
9 eventually results in efficient operations.

10 So ensuring the proper management of  
11 data is essential to our mission of providing  
12 exceptional service to our members. The cost  
13 of that data can impact all operational areas  
14 of our organization and we get a better handle  
15 on our liabilities and impact of changes made  
16 when the data and how it's used through our  
17 system is clear and consistent.

18 So putting things in perspective, and to  
19 appreciate the complexity of instilling a  
20 formal data governance program and a culture  
21 of data stewardship and data ownership through  
22 the organization, just want to give you some  
23 numbers. So there are about 3,000-plus  
24 technical terms that are in the scope of the  
25 overall program. You know, in our new system

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and old system, which are being defined as part of this program, there are about 800-plus business terms in various business glossaries across all the departments at TRS as part of this effort. And the total volume of data that we are talking about is about 3-plus terabytes, and in relative terms, if we were to cut 150,000 trees and make paper out of that and print on those pieces of paper, that's the amount of information we are talking about when we say 3-plus terabytes of information.

MS. CHAN: So 50,000 per terabyte.

MS. KANWAR: So in terms of our current status. Right now, during the course of post-modernization, we are in the process of defining and establishing the data and how it's being managed and how as we proceed into the post-modernization phase TRS will be basically optimizing the data governance program and then proactively controlling, maintaining our data using all those policies and procedures.

So that's all I have. Any questions?

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2 MS. REILLY: Thank you. Next on the  
3 agenda is comments from the public. Seeing  
4 none, do I hear a motion to move into  
5 executive session?

6 MR. BROWN: I move pursuant to Public  
7 Officers Law Section 105 to go into executive  
8 session for discussions regarding specific  
9 contract matters.

10 MS. PENNY: Thank you, Mr. Brown. Do I  
11 hear a second?

12 MS. VICKERS: Second.

13 MS. PENNY: All those in favor to go  
14 into executive session, please say aye. Aye.

15 MR. ADLER: Aye.

16 MR. BROWN: Aye.

17 MS. GREEN-GILES: Aye.

18 MR. KAZANSKY: Aye

19 MS. VICKERS: Aye.

20 MS. PENNY: Thank you. Any opposed? We  
21 are in executive session.

22 (Whereupon, the meeting went into Executive  
23 Session.)

24 MS. PENNY: Is there a motion to come  
25

1 Proceedings

2 out of executive session?

3 MR. BROWN: So moved.

4 MS. PENNY: Thank you, Mr. Brown. Is  
5 there a second?

6 MS. GREEN-GILES: Second.

7 MS. PENNY: Thank you, Ms. Giles. All  
8 those in favor? Aye.

9 MR. ADLER: Aye.

10 MR. BROWN: Aye.

11 MS. GREEN-GILES: Aye.

12 MR. KAZANSKY: Aye

13 MS. VICKERS: Aye.

14 MS. PENNY: Any opposed? Okay. We are  
15 out of executive session and back to public  
16 session. Welcome back. Is there any other  
17 matters?

18 MS. REILLY: Susan is going to read out  
19 what happened in executive session.

20 MS. STANG: Exactly. A contract matter  
21 was discussed. Consensus was reached, which  
22 will be announced at the appropriate time.  
23 Another contract matter was discussed. A vote  
24 was taken, the results of which will be  
25 announced at the appropriate time.

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MS. REILLY: Thank you.

MS. PENNY: Thank you, Susan. Now, are there any other matters? Okay. Is there a motion?

MS. VICKERS: Motion to adjourn.

MS. PENNY: Thank you. Is there a second?

MR. KAZANSKY: Second.

MS. PENNY: Thank you. All those in favor? Aye.

MR. ADLER: Aye.

MR. BROWN: Aye.

MS. GREEN-GILES: Aye.

MR. KAZANSKY: Aye

MS. VICKERS: Aye.

MS. PENNY: Any opposed? We stand adjourned.

MR. BROWN: Happy holidays.

(Time noted: 4:11 p.m.)

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C E R T I F I C A T E

STATE OF NEW YORK )

: ss.

COUNTY OF QUEENS )

I, YAFFA KAPLAN, a Notary Public  
within and for the State of New York, do  
hereby certify that the foregoing record of  
proceedings is a full and correct  
transcript of the stenographic notes taken  
by me therein.

IN WITNESS WHEREOF, I have hereunto  
set my hand this 1st day of January,  
2020.

\_\_\_\_\_

YAFFA KAPLAN