April 2023

## ASSURANCE

**Audit, Compliance & Ethics Committee Meeting** 



Teacher Retirement System of Texas 1000 Red River Street Austin, Texas 78701-2698

## TEACHER RETIREMENT SYSTEM OF TEXAS BOARD OF TRUSTEES AND AUDIT, COMPLIANCE AND ETHICS COMMITTEE

(Mr. Walls, Jr., Chairman; Ms. Allred, Mr. Ball, Ms. Sissney, and Mr. Williams Committee Members)

All or part of the April 28, 2023, meeting of the TRS Audit, Compliance and Ethics Committee and Board of Trustees may be held by telephone or video conference call as authorized under Sections 551.130 and 551.127 of the Texas Government Code. The Board intends to have a quorum and the presiding officer physically present at the following location, which will be open to the public during the open portions of the meeting: 1000 Red River, Austin, Texas 78701 in the TRS East Building, 5th Floor, Boardroom.

The open portions of the April 28, 2023, meeting are being broadcast over the Internet. Access to the Internet broadcast and agenda materials of the meeting is provided at <a href="www.trs.texas.gov">www.trs.texas.gov</a>. A recording of the meeting will be available at <a href="www.trs.texas.gov">www.trs.texas.gov</a>.

#### AGENDA April 28, 2023 - 9:00 a.m.

- 1. Call roll of Committee members.
- 2. Approve minutes of December 2022 Audit, Compliance and Ethics Committee meeting Mr. Robert H. Walls, Jr., Chair.
- 3. Receive an overview of the Audit, Compliance and Ethics Committee's Calendar Year 2023 Work Plan Amanda Jenami.
- 4. Receive TRS Compliance reports including those related to ethics and fraud, conflicts of interest, and investment policies Heather Traeger and Chris Bowlin.
- 5. Consider recommending to the Board of Trustees proposed revisions to the Fiscal Year 2023 Audit Plan Amanda Jenami.
- 6. Receive Internal Audit reports:
  - A. Review of Private Equity Portfolio Operations Julie Toler and Neil Randall
  - B. Status of Prior Audit Recommendations Amanda Jenami
  - C. Review of Dependent Eligibility for TRS-Care Amanda Jenami and Monica Bernal
  - D. Audit of Malware Protection and Ransomware Readiness Stephen Randall and Kristi Glasgall
- 7. Discuss or consider Internal Audit and TRS Compliance administrative reports and matters related to governance, risk management, internal control, compliance violations, fraud, regulatory reviews or investigations, fraud risk areas, audits for the annual internal audit plan,

NOTE: The Board of Trustees (Board) of the Teacher Retirement System of Texas will not consider or act upon any item before the Audit, Compliance and Ethics Committee (Committee) at this meeting of the Committee. This meeting is not a regular meeting of the Board. However, because the full Audit, Compliance and Ethics Committee constitutes a quorum of the Board, the meeting of the Committee is also being posted as a meeting of the Board out of an abundance of caution.



#### Minutes of the Audit, Compliance and Ethics Committee December 8, 2022

The Audit, Compliance and Ethics Committee of the Board of Trustees of the Teacher Retirement System of Texas met on December 8, 2022, in the boardroom located on the Fifth Floor in the East Building of TRS' offices located at 1000 Red River Street, Austin, Texas, 78701.

#### **Committee members:**

Mr. Christopher Moss, Chair

Mr. John Elliott

Ms. Nanette Sissney

#### The following Committee member attended virtually:

Mr. Michael Ball

#### **Other TRS Board Members Present:**

Mr. David Corpus

Mr. Jarvis V. Hollingsworth

Mr. James D. Nance

Mr. Robert H. Walls, Jr.

#### Others who participated:

Brian Guthrie, TRS

Andrew Roth, TRS

Don Green, TRS

Jase Auby, TRS

Heather Traeger, TRS

Amanda Jenami, TRS

Chris Bowlin, TRS

Teklehaimanot Derseh, TRS

Yimei Zhao, TRS

Syed Israr, TRS

K.J. Van Ackeren, TRS

Falguni Sampat, TRS

Martin Cano, TRS

Mark Chi, TRS

Chris Cutler, TRS

Frank Williams, TRS

Katie Linczer, TRS

Katherine Farrell, TRS

Suzanne Dugan, Cohen Milstein

Bill Hunter, SAO Hillary Eckford, SAO Kevin W. Smith, Crowe LLP

Audit, Compliance and Ethics Committee Chair, Mr. Christopher Moss, called the meeting to order at 3:18 p.m.

#### 1. Call roll of Committee members.

Ms. Farrell called the roll. A quorum was present.

#### 2. Consider the approval of the proposed minutes of the September 2022 committee meeting – Chair Christopher Moss.

On a motion by Mr. Elliott, seconded by Ms. Sissney, the committee unanimously voted to approve the proposed minutes for the September 2022 Audit, Compliance and Ethics Committee meeting as presented.

### 3. Receive report of the financial audit of TRS Annual Comprehensive Financial Report (ACFR) for fiscal year ended August 31, 2022 – Bill Hunter and Hillary Eckford, SAO.

Mr. Bill Hunter with the State Auditor's Office provided the results of the financial statement opinion audit of the TRS ACFR as materially accurate. He described the audit opinion as unmodified, meaning it was clean. He stated that the audit was prepared in accordance with generally accepted auditing standards applicable to financial audits for government entities. He reviewed two items that were not significant to the results of the audit. He noted that these financial statements are specific to TRS and do not represent the State of Texas. He also noted that the financial statements include alternative investments valued at \$98.4 billion and that this valuation is based on estimates by management.

## 4. Receive Crowe LLP's report of the financial audit of TRS Investment Company (TRICOT) for fiscal year ended August 31, 2022 – Kevin W. Smith and Michelle Buss, Crowe LLP

Mr. Kevin Smith stated that the audit was conducted, and an unmodified opinion was issued. He noted that this is the highest level of assurance that can be provided. He stated that the audit was conducted in accordance with both government auditing standards as well as AICPA standards. He reported two matters of emphasis. He noted the audit was of TRICOT, not of TRS or the State of Texas. He also noted that TRICOT adopted the new GASB accounting guidelines on leases which brought leases onto the balance sheet. He noted that Crowe did not modify its opinion with respect to this change.

#### 5. Receive TRS Compliance reports including those related to ethics and fraud, conflicts of interest, and investment policies – Heather Traeger and Chris Bowlin.

Mr. Chris Bowlin reported on the quarterly compliance testing of the Investment Policy Statement, the securities lending policy, the proxy voting policy, and board reporting requirements. He confirmed that requirements were being met.

Ms. Traeger reported two complaints were received for this quarter on the Hotline. She stated that both instances will be identified as unsubstantiated. She reported there were two 541(c) reports and two 541(e)s. She said all have been addressed.

#### 6. Receive Internal Audit reports:

#### A. Analysis of Free-Standing Emergency Room Providers' Billing Patterns – Teklehaimanot Derseh and Yimei Zhao

Ms. Amanda Jenami reported that HIB noticed unusual billing from freestanding ER providers and requested Internal Audit (IA) to perform some analysis. She said the objective of the project was for IA to identify providers that present a high risk of inappropriate billing. Ms. Yimei Zhao provided background about freestanding ERs. She said these facilities charge three to four times what a typical physician would for the same services.

Mr. Tekelehaimanot Derseh reviewed the results of the analysis to identify freestanding ER providers that presented an elevated risk to the TRS plan. He reported that members visited 215 freestanding ER providers between September 2020 and July 2022, with TRS paying more than \$31 million within that time period across more than 3,000 claims. He explained that the team used nine different measures to identify the high-risk freestanding ER providers. He reported 11 freestanding ER providers were identified as high risk to TRS plan. Ms. Zhao said HIB is working with the plan administrator to address this issue.

#### B. Review of Internal Fundamental Public Equity Portfolio Operations – Syed Israr and K.J. Van Ackeren.

Mr. Syed Israr stated the audit was a review of portfolio activities in supporting operations surrounding the TRS IFM Portfolio operations over the fiscal years 2021 and 2022. He said the IFM Team manages over \$10 billion in global equities across developed and emerging markets contributing a little over 5 percent to the Trust. He reported the audit to be a good audit and that the IFM operations demonstrated sufficient processes and controls to accomplish the objectives set forth by the Board for the areas of the portfolio in compliance with the policies and procedures. He noted opportunities to improve alignment between a few processes and across teams were identified. He said the audit is recommending IFM to consult with Legal and Compliance regarding research provider agreements, closure of breach log alerts, and establishing procedures for minimum research documentation.

Mr. K.J. Van Ackeren provided management's agreement with the recommendations and that implementation will be over the coming quarters.

Mr. Moss announced without objection taking up Agenda Item 6D.

#### D. Follow-Up of Procurement Audit – Falguni Sampat and Martin Cano.

Ms. Jenami noted that the procurement follow-up audit covered the period October 2021 through July 2022. She said the process under review was comprised of four different sub-processes: procurement planning, procurement method determination, vendor selection, and contract formation and award. She was pleased to report that there has been significant improvement in the procurement process at TRS since the original audit, issued in March 2021. She said 67% of the recommendations, 12 out of 18, have been fully implemented and the remaining six are considered in progress or partially implemented.

Ms. Falguni Sampat reviewed the recommendations as related to compliance with procurement requirements such as enhancing the quality assurance reviews and then using the error information for targeted coaching.

Mr. Martin Cano stated management continues to develop and enhance the overall procurement process, effectiveness, and transparency.

#### E. Reporting Employer Testing Results – Amanda Jenami and Mark Chi.

Ms. Jenami stated this was not an audit but an agreed upon procedures project where Benefit Services requested performance of specific procedures to test the data submitted by reporting employers. She said the project reviewed data from a sample of five independent school districts for the entire fiscal year. The review focused on three areas i.e., accuracy of Census data, gross compensation, eligibility. The review of eligibility focused on potential for underreporting. She said there was nothing to report on gross compensation or the census data. She said there was an underreporting on eligibility. She said while 41 percent exception rate is high, it is not surprising for a targeted sample as this one. She stated that Internal Audit reported the results to Benefit Accounting staff who will work with the reporting employers to perform the necessary adjustments.

Mr. Mark Chi provided the management response. He said Benefit Accounting will contact the employers with the instructions to provide the necessary corrections no later than December 31<sup>st</sup> of this year.

#### F. Internal Audit Annual Report for Fiscal Year 2022 – Katie Linczer.

Ms. Katie Linczer stated that Internal Audit disseminated the Internal Audit Annual Report on November 1<sup>st</sup> in compliance with the Texas Internal Auditing Act. She said the report shows the value of the Internal Audit department and its contributions to TRS over the last year. Ms. Jenami provided a year in review for Internal Audit.

#### G. Status of prior audit and consulting recommendations – Amanda Jenami.

Ms. Jenami highlighted the progress that has been made on the prior recommendations mainly from the implementation of the Procurement Audit. She said there are now 53 pending when last quarter there were 71.

7. Discuss and consider Internal Audit and TRS Compliance administrative reports and matters related to governance, risk management, internal control, compliance violations, fraud, regulatory reviews or investigations, fraud risk areas, audits for the annual internal audit plan, or auditors' ability to perform duties — Christopher Moss, Amanda Jenami and Heather Traeger.

Ms. Jenami reviewed the administrative report that stated as of the first quarter performance targets were on track to achieve the annual target.

Mr. Moss announced without objection taking up Agenda Item 6C.

#### C. Audit of Information Systems Inventory and Data Classification – Stephen Randall, Chris Cutler, and Frank Williams.

At 4:30 p.m., Mr. Moss announced the committee would go into executive session under the following agenda item and sections of the Government Code: Item 6 C, under Section 825.115(d), 551.076 and 551.089 to discuss the Audit of Information Systems Inventory and Data Classification, and under Section 551.071 to consult with legal counsel as needed.

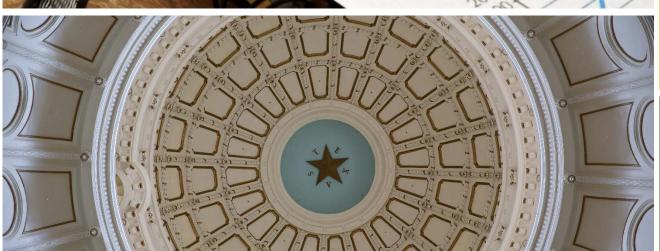
At 4:55 p.m. Mr. Moss reconvened the committee meeting.

With no further business before the Committee, the meeting adjourned at 4:55 p.m.

APPROVED BY THE AUDIT, COMPLIANCE AND ETHICS COMMITTEE OF THE BOARD OF TRUSTEES OF THE TEACHER RETIREMENT SYSTEM OF TEXAS ON THE \_\_\_ DAY OF APRIL 2023.

OF APRIL 2023.		
Robert H. Walls, Jr.	Date	
Chair, Audit Compliance and Ethics Committee		
Board of Trustees		
Teacher Retirement Systems of Texas		





#### **Internal Audit**

Audit, Compliance & Ethics Committee Meeting

















#### **Audit, Compliance and Ethics Committee – CY 2023**

February  April  May  July  September  Consider Revisions to the Annual Audit Plan for  N/A  Receive Results of the Receive Presentation of Receive Results of the Receive Presentation of Receive Results of the Receive Results of	
N/A	December
FY2023  Audit of TRS' Other Post- Employment Benefits (OPEB)  Planned Audit of the Annual Comprehensive Financial Report (ACFR) for FY2023.	esults of the Audit CFR for Year gust 31, 2023.
Receive Compliance Reports  Receive Re	esults of the Audit of TRICOT Year ended August
Receive Administrative Reports  Receive Compliance Reports  Receive Compliance Reports  Receive Compliance Revisions to the Internal Audit Charter  Receive In	ompliance Reports aternal Audit aport for FY2023.
Receive Internal Audit	iternal Audit
Receive Administrative Reports  Receive Administrative Reports  Receive Internal Audit Reports  Fiscal Year 2023	dministrative



Internal Audit

Quarterly
Compliance Testing



Heather Traeger & Chris Bowlin

















## Quarterly Investment Compliance Testing Investment Policy Statement (IPS) and Securities Lending Policy (SLP) Quarter ending December 31, 2022

Procedures Performed	Test Results					
Business Objective 1: Board Reports  All required information is reported to the TRS Board of Trustees						
Obtain evidence that all requirements reported to Board of Trustees	All reporting requirements were met					
Trace sample information included in Board reports to supporting documentation	Documentation provided supported information tested					
	ment Selection and Approval limits and established selection criteria					
Obtain evidence that Investment Integrity Questionnaires (IIQs) were received prior to investing	Each investment tested had a completed questionnaire prior to IIC date					
Obtain evidence that approved investments were within policy limits	<ul> <li>All investments made during the quarter were tested and found to be in compliance with approval limits</li> </ul>					
Obtain evidence that Restricted Securities lists updated and reports filed	All Restricted Securities Lists have been updated and reports filed.					
Obtain evidence that IMD evaluated hedge fund classification	A hedge fund analysis was included in IIC materials (when required) for all investments tested					
Obtain evidence that all board serving requirements are met.	<ul> <li>All reporting requirements were met, and documentation provided supported information tested</li> </ul>					
Business Objective 3: Other						
Risk limits are followed for other investment and p	proxy voting policies and procedures were followed					
Obtain senior management disclosure about known compliance violations	Obtained quarterly compliance certification from IMD IIC and Legal					
Obtain evidence that TRS securities lending program complied with the following guidelines	No security lending violations were identified.					



Internal Audit

Summary of New and OS Complaints



Heather Traeger & Chris Bowlin



















Proposed Revisions to the Audit Plan For Fiscal Year 2023



Amanda Jenami, CPA, CISA, CIA, CIDA, CFSA, CRMA, CFE

















#### **Overview**

Consider recommending to the Board of Trustees proposed revisions to the Fiscal Year 2023 Audit Plan.

#### **Background**

Per the approved Fiscal Year 2023 Audit Plan, amendments to the approved Audit Plan deemed to be significant will be submitted to the Board of Trustees for approval. The State Auditor's Office also requires notification of material changes to the Audit Plan. Staff requests that the Audit, Compliance, and Ethics Committee approve the proposed amendments to the Fiscal Year 2023 Audit Plan and recommend that the Board of Trustees adopt the proposed revisions.

#### **Risk Considerations**

The Revised Audit Plan is designed to provide coverage of key risks, given the existing staff and approved budget.

#### **Staff Recommendation**

Staff requests that the Committee recommends to the Board of Trustees the following proposed revisions to the Fiscal Year 2023 Audit Plan.

#### **Proposed Revisions to the Audit Plan for FY 2023**

**Elevated** 

High

Project	Risk Level	Change	Reason				
Technology							
Audit of the Cybersecurity Incident Response Program		Defer to FY2024	Management needs six to nine months to develop and implement an action plan following a recent tabletop exercise. The action plan will include updating necessary policies and plans, and a review by an outside 3rd party.				
Audit of MyTRS		Add to FY2023	The audit would seek to determine whether the MyTRS application has adequate application controls to protect the confidentiality, integrity, and availability of member data.				
Pension Benefits and R	Reporting Empl	oyers					
Reporting Employer Testing (Agreed Upon Procedures)  Internal Audit no longer has the resources to perform this project due to staff turnover. Management has since downgraded the ERM risk for this area.							
Risk Category	Level – Thr	eat to Achie	ving TRS Goal & Objectives  Note: The proposed revisions reduce the number of audits originally approved for FY2023 by 5% (1)				

**Guarded** 

Caution

of audits originally approved for FY2023 by 5% (1

out of 19).

Low





Internal Audit
Review of Private
Equity Operations



Julie Toler and Neil Randall April 28, 2023

















#### **Review of Private Equity Operations**

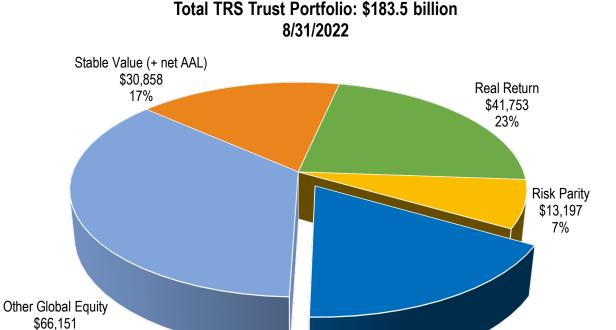


#### **Private Equity Portfolio**

- ✓ \$31.55 Billion
- ✓ 17% of Trust

#### **Audit Scope**

- ✓ September 2020 December 2022
- ✓ Activities and reporting related to private equity portfolio management operations and controls



36%

Source: MOPAR report, 8/31/2022

**Private Equity** 

\$31,550

17%

#### **Review of Private Equity Operations**



The Teacher Retirement System's (TRS) private equity (PE) operations include sufficient controls to provide reasonable assurance that PE portfolio objectives are accomplished effectively, efficiently and in compliance with the TRS Investment Policy Statement and relevant procedures.

#### Key controls include:

- Investment Policy Statement
- Internal Investment Committee (IIC) & Private Equity
   Investment Committee (PEIC) guidelines & procedures
- Investment due diligence & monitoring procedures
- Annual capital planning activities
- Third party monitoring and validation of external manager fees

#### **Executive Summary**

#### **Private Equity Business Objectives:**

- 1. Achieve TRS Board objectives for Trust portfolio exposure, investment performance & reporting transparency.
- 2. Develop and retain team talent and maintain operational procedures for robust and consistent investment diligence & oversight.

Positive Results	<u>Issues</u>	<u>Management Response</u>
<ul> <li>New investment diligence &amp; approval procedures</li> </ul>	• N/A	• N/A
Monitoring & oversight of portfolio holdings		
<ul> <li>Annual capital planning activities</li> </ul>		
<ul> <li>External manager fees oversight &amp; transparency</li> </ul>		
<ul> <li>Documentation of investment key business terms</li> </ul>		

#### **Project Team**





Julie Toler, CFA, CFP<sup>®</sup>, CIA, CRMA Investment Audit Services Director



Syed Israr
Senior Investment Auditor



Nathan Ward Senior Investment Auditor



Katie Linczer, CPA, CIA, CRMA Senior Investment Auditor



#### **BACKGROUND**



Determine whether Private Equity portfolio operations include sufficient controls to ensure investments are made and managed effectively, efficiently and in compliance with relevant policies, guidelines and procedures.



- ✓ Identify key risks and controls
- ✓ Review Investment Policy Statement
- ✓ Interview management and staff
- Review TRS processes and documents
- ✓ Review data accuracy and integrity



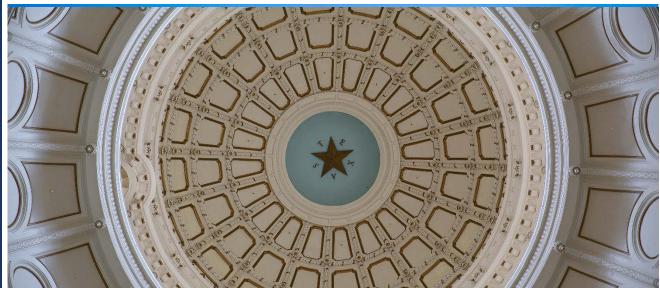
#### **AUDIT SCOPE**

- ✓ September 2020 December 2022
- ✓ Activities and reporting related to private equity portfolio operations





Summary of Audit Recommendations As of March 28, 2023



Amanda Jenami, CPA, CIA, CISA, CIDA, CFSA













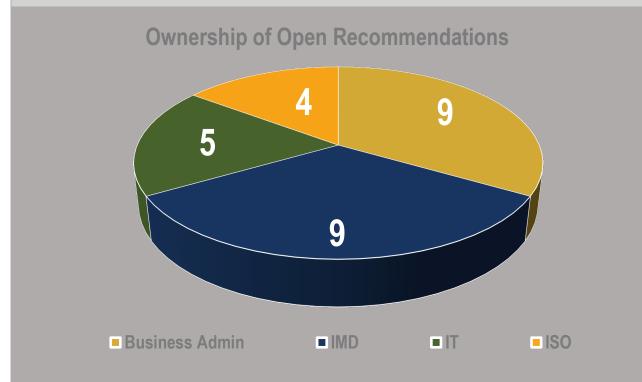


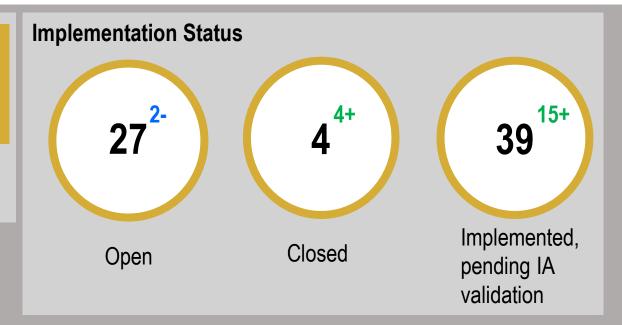


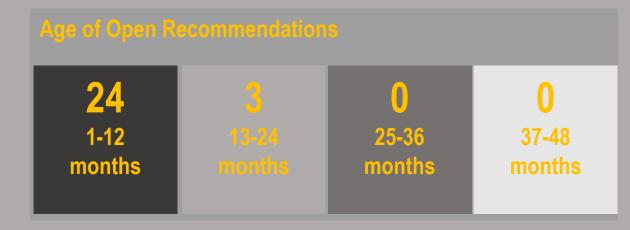
#### **Highlights**

**70**Recommendations (Total)

19 Audit Reports 47
Recommendations rated significant







Recommendation	Status	Issue Type	Issue Date	Estimated Date	Revised / Actual Date
19-601 Talent Management and Culture Audit					
2. Strengthen shared services alignment - (c) Performance metrics	Implemented	Significant	4/2019	12/2020	5/2022
20-104 Review of Collections					
1.1 Strengthen death claim-related collection process	Implemented	Significant	7/2020	8/2020	11/2020
Develop procedures for death claim-related payments and update death notification procedures	Implemented	Significant	7/2020	3/2020	8/2020
Document and implement procedures for writing off post-death overpayments	Implemented	Significant	7/2020	3/2020	12/2020
2.1.1 Identify and pursue all forfeited annual payment collections	Implemented	Other Reportable	7/2020	8/2020	12/2022

Significant to Business Objectives	Other Reportable
<ul> <li>Past original estimated completion date, and</li> <li>No management action plan or No progress on management action plan</li> </ul>	Past first revised estimated completion date     No management action plan or No progress on management action plan
Past original estimated completion date     Progress on management action plan	Past first revised estimated completion date     Progress on management action plan
Original estimated completion date has not changed     Progress on management action plan	Within original or first revised estimated completion date     Progress on management action plan
Satisfactory implementation of management action plan or Acceptance of risk by management	Satisfactory implementation of management action plan or Acceptance of risk by management
Implementation of management action plan pending Internal Audit validation	Implementation of management action plan pending Internal Audit validation

Recommendation	Status	Issue Type	Issue Date	Estimated Date	Revised / Actual Date
20-105 Review of 1099-R Processes					
1.1 Identify and implement improvements to address system defects	Implemented	Significant	10/2020	9/2021	12/2021
2.2 Strengthen controls for oversight of vendor performance	Implemented	Significant	10/2020	12/2020	12/2020
20-401 Review of Accounting Operations					
3.1.i Accrual and Reporting Accuracy: ACFR - Receivables	Implemented	Significant	7/2020	9/2020	3/2021
3.1.ii Accrual and Reporting Accuracy: ACFR - Payables	Implemented	Significant	7/2020	9/2020	3/2021
21-202 Review of Contract Oversight (HIB)					
1.1 Strengthen contract monitoring efforts	Implemented	Significant	92021	2/2023	2/2023
1.2 Assist contract managers in setting up PAVES deliverables	Implemented	Significant	9/2021	10/2021	10/2021
1.3 Strengthen invoice review processes	Implemented	Significant	9/2021	2/2023	2/2023
1.4 Develop and implement contract monitoring procedures	Implemented	Other Reportable	9/2021	2/2023	2/2023
1.5 Establish and implement criteria for using SOWs	Implemented	Significant	9/2021	2/2023	2/2023
2.1 Strengthen change control processes	Implemented	Significant	9/2021	2/2023	2/2023

Recommendation	Status	Issue Type	Issue Date	Estimated Date	Revised / Actual Date
2.2 Ensure sufficient involvement of P&C	Implemented	Significant	9/2021	2/2023	2/2023
3.1 Complete risk assessments for executed contracts	Implemented	Significant	9/2021	2/2023	2/2023
3.2 Document the risk assessment process	Implemented	Significant	8/2021	2/2023	2/2023
21-304 Review of Personal Trading					
2.1.1 Opportunity to Enhance StarCompliance Security	Implemented	Other Reportable	11/2021	12/2022	12/2022
21-401 Review of Procurement					
1.1.2 Associate IMD-funded payments with contracts	Implemented	Significant	11/2020	9/2021	9/2021
1.1.3 Identify and address IMD contracts with unknown values	Implemented	Significant	11/2020	9/2021	9/2021
21-402 Review of the HUB Program					
1.1 Implement a TRS HUB Policy	Implemented	Significant	5/2021	9/2021	9/2021
1.2 Finalize the HUB Program Manual	Implemented	Significant	5/2021	9/2021	9/2021
1.3 Develop a HUB Strategic Plan	Implemented	Significant	5/2021	9/2021	9/2021
1.4 Implement documentation, tracking, and effective reviews of outreach activities	Implemented	Significant	5/2021	9/2021	9/2021
1.5 Implement HUB Program tools for TRS staff	Implemented	Significant	5/2021	12/2021	12/2021

Recommendation	Status	Issue Type	Issue Date	Estimated Date	Revised / Actual Date
1.6 Increase the number of HUB Vendor Outreach tools	Implemented	Significant	5/2021	9/2021	9/2021
1.7 Increase the HUB Program resources	Implemented	Significant	5/2021	9/2021	9/2021
1.8 Enhance the TRS HUB Webpage	Implemented	Significant	5/2021	9/2021	9/2021
22-302 Review of Strategic Asset Allocation Procedures and Governance					
1.4.1 Alignment with SAA target allocations	In Progress	Other Reportable	6/2022	12/2024	
22-303 Review of Investment Performance Measurement					
1.1.1 Internal Control Assurance for Third-Party Service Provider	In Progress	Other Reportable	8/2022	8/2022	5/2023
2.2.2 Reliance on Excel Workbooks / Scalability	In Progress	Other Reportable	8/2022	8/2023	
22-304 Review of Internal Fundamental Public Equity Portfolio Opera	itions				
2.1.1 Consultation between Legal & Compliance and IFM	In Progress	Other Reportable	1/2023	9/2023	
2.2.1 Compliance of monitoring alert resolution with IPMA Compliance Testing Procedure	In Progress	Other Reportable	1/2023	6/2023	
2.3.1 Establish research documentation criteria	In Progress	Other Reportable	1/2023	6/2023	
22-401 Review of Records Management					
1.1 Assist business units in weighing benefits against risks of longer retention timeframe	In Progress	Other Reportable	6/2022	2/2023	2/2024

Recommendation	Status	Issue Type	Issue Date	Estimated Date	Revised / Actual Date
1.2 Require written justification and executive management approval for longer retention timeframes	In Progress	Other Reportable	6/2022	2/2023	2/2024
3.1 Continue efforts to implement record management automated features	In Progress	Other Reportable	6/2022	3/2023	1/2024
3.2 Include shared and personal drives to Microsoft project	In Progress	Other Reportable	6/2022	5/2023	
22-402 Follow-Up of Procurement Audit					
1.2.1 Implement enhancement feature to tie IMD payments to their relevant contracts	In Progress	Other Reportable	11/2022	9/2023	
1.2.2 P&C management should separate invoice creation from the review and approval steps within PAVES	In Progress	Other Reportable	11/2022	9/2023	
1.2.3 P&C management should implement enhancements to limit the number of instances users have to manually enter data in key fields	In Progress	Other Reportable	11/2022	9/2024	
1.2.4 P&C management should improve quality assurance reviews to ensure accuracy and completeness of data.	In Progress	Other Reportable	11/2022	9/2023	
2.1 TRS management should assist P&C in bringing a cultural shift to comply with P&C's lead times	In Progress	Other Reportable	11/2022	9/2023	
22-502 IT Contract Oversight					
1.1 Implement contract monitoring policies and procedures	Implemented	Significant	1/2023	2/2023	1/2023
1.2 Align contract monitoring efforts with key contract requirements	Implemented	Significant	1/2023	2/2023	2/2023
1.3 Strength invoice review processes	Implemented	Significant	1/2023	2/2023	2/2023
2.1 Enhance and document the risk assessment process	Implemented	Other Reportable	1/2023	2/2023	2/2023

Recommendation	Status	Issue Type	Issue Date	Estimated Date	Revised / Actual Date
2.2 Perform risk assessment for executed contracts	Implemented	Significant	1/2023	2/2023	2/2023



Review of Dependent Eligibility for TRS-Care

## CONFIDENTIAL

Amanda Jenami and Monica Bernal





















Audit of Malware
Protection and
Ransomware
Readiness
CONFIDENTIAL



Stephen Randall and Kristi Glasgall



















Internal Audit
Administrative Reports
2nd Quarter 2023



Amanda Jenami, CPA, CIA, CISA, CFE, CGAP, CRMA

















# Internal Audit Performance Measures 2nd Quarter 2023

#### **Executive Summary**

#### **FY2023 Strategic Plan**

Goal 1: Provide assurance to the Board of Trustees and Senior Management (3 KPIs)

Goal 2: Serve as trusted advisor to the Board of Trustees and Management (4 KPIs)

Goal 3: Attract, develop and retain diverse and outstanding talent (7 KPIs)

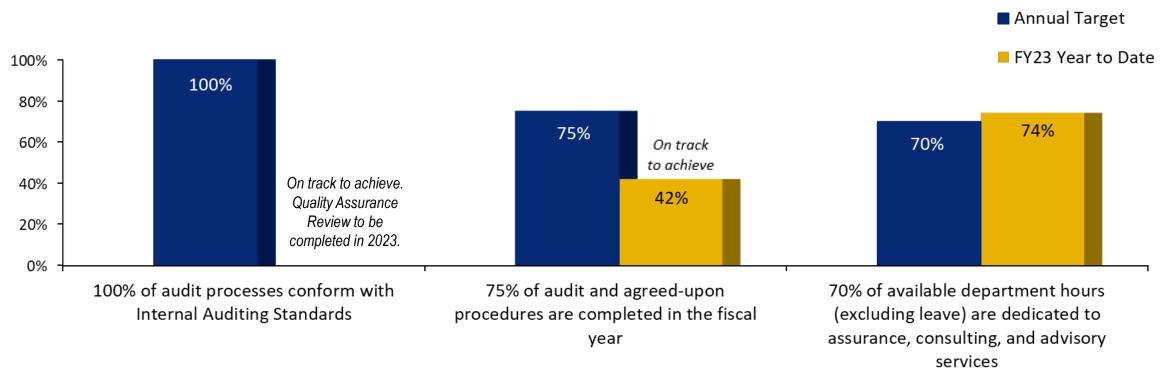
Goal 4: Leverage technology (1 KPI)

#### FY2023 Key Performance Indicators (KPIs)

Internal Audit either exceeded or was on track to achieve 100% (15 out of 15) of its annual performance targets in the first quarter.

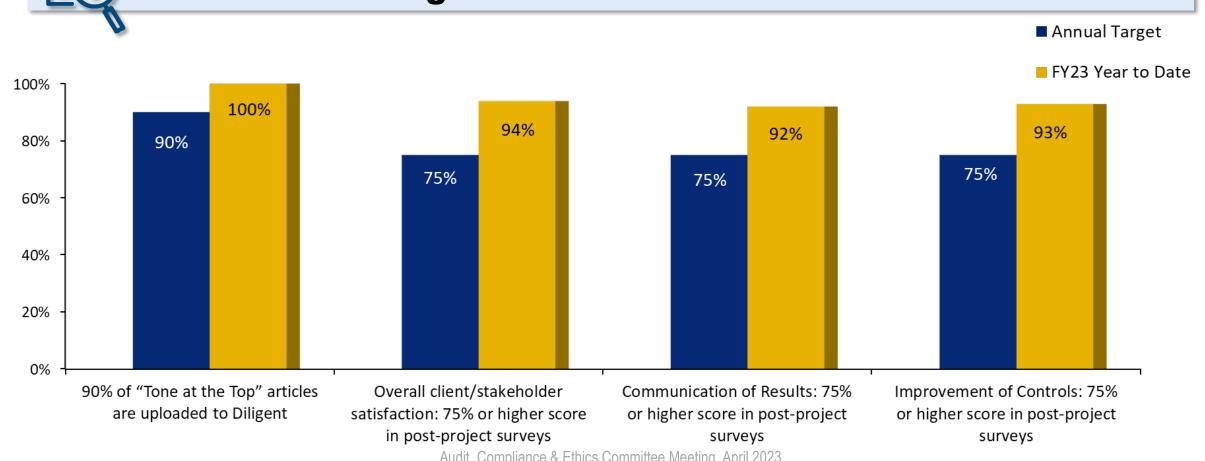


## Goal 1: Provide Assurance to the Board of Trustees & Senior Management





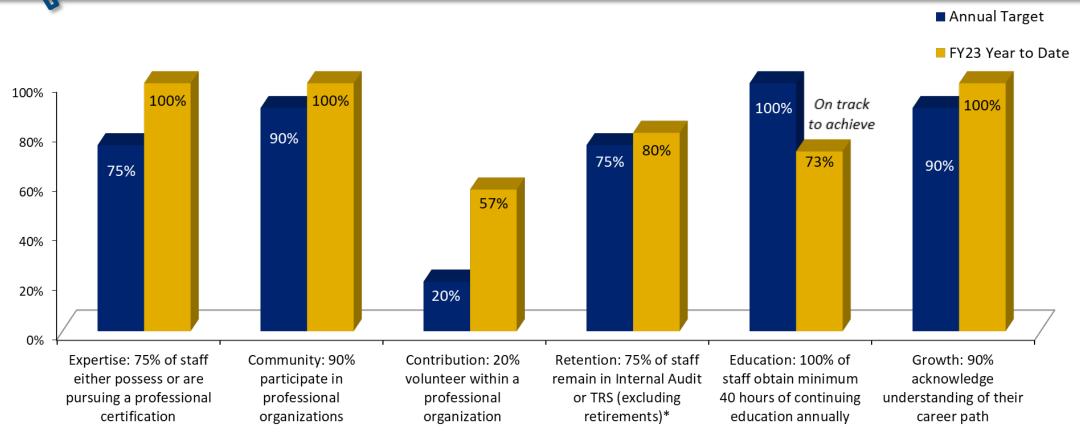
## Goal 2: Serve as trusted advisor to the Board of Trustees & Management

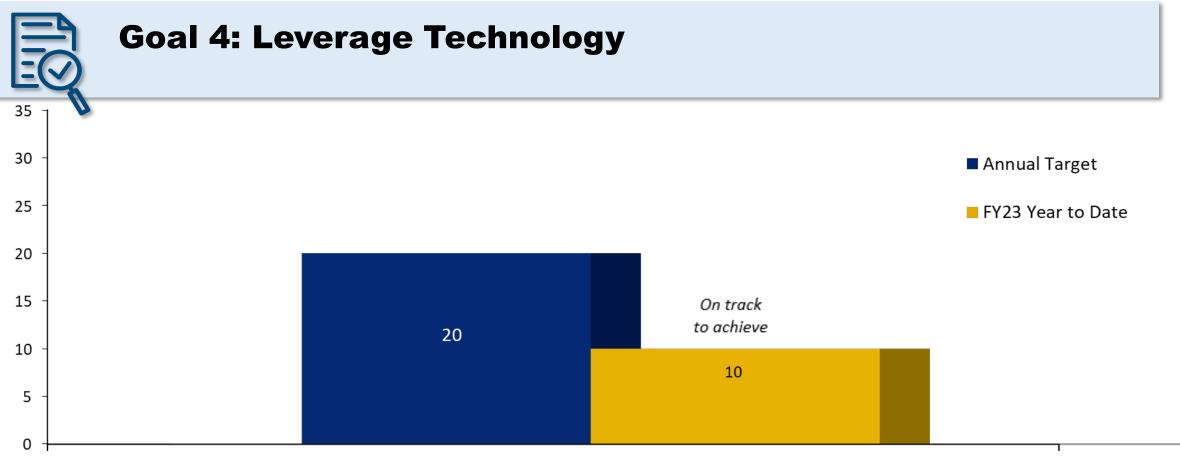


Audit, Compliance & Ethics Committee Meeting, April 2023 FY2023 YTD 2nd Quarter Results



## Goal 3: Attract, develop & retain diverse & outstanding talent





Develop & implement approximately 20 data analysis scripts or algorithms annually

## Advisory Services FY2023

#### **Internal Audit Advisory Services**

#### **EXECUTIVE**

- Facilitated external audits of the Annual Comprehensive Financial Report and TRICOT Annual Financial Report
- Served on the Risk Oversight Committee
- Served on the ERM Maturity Project Team
- Served on the Enterprise Data Governance Council
- Participated in Enterprise Projects Oversight Committee (EPOC)

#### **INVESTMENT MANAGEMENT DIVISION (IMD)**

- Attended Internal Investment Committee (IIC) meetings
- Attended monthly Securities Lending monitoring calls
- Held quarterly collaboration meetings with Investment Compliance and Investment Risk
- Held quarterly collaboration meetings with IMD management

#### **INFORMATION TECHNOLOGY**

- Attended Information Security Advisory Team (ISAT) meetings
- Attended Change Management Team (CMT) meetings
- Coordinated IPA (TEAM) activities
- Held collaboration meetings with Chief Information Officer (CIO) and Chief Information Security Officer

#### **BENEFIT SERVICES**

- Attended Quarterly Employer Advisory Group meetings
- Performed RE data integrity tests via data analytics

#### FINANCIAL SERVICES

Performed independent testing and reconciliation of wire activity

#### **HEALTH INSURANCE BENEFITS (HIB)**

Performed independent TEAM testing and reconciliation

## Staff Highlights

#### **New Team Member**

## Jonathan O'Reilly Director of Business Intelligence

Jonathan brings over 11 years of state government and private sector experience. Prior to joining TRS, he worked for Care.com, BCBS of Texas and the HHSC Inspector General leading data analytics initiatives for internal and external stakeholders.

Jonathan is an Advanced SAS Certified Programmer and holds a Master of Arts in Social Science from the University of Chicago and a Bachelor of Science from Texas A&M University.



## Questions?