

#### MUNICIPAL MARKET DISCLOSURE

APRIL 8-9, 2025 | COSTA MESA, CALIFORNIA

#### SESSION ONE

The Evolving Landscape of Municipal Disclosure

**DANIEL DEATON**Partner

Nixon Peabody LLP





## When Did We Learn What Good Disclosure Looks Like?

#### Pension Disclosure

- What happened?
- What gave rise to the disclosure failure?
- What lessons did the SEC hope we would learn?
- What did the market learn?
- What did the SEC learn?

## Disclosure Policies and Procedures

- What happened?
- What made it so that the SEC was so driven that issuers would adopt policies and procedures?
- How did the market react?
- What did the SEC learn from this?

### Continuing Disclosure

- What happened?
- What efforts did the SEC take to seek to fix the problem?
- How did the market react?
- Where did we get it so wrong?

#### **Bank Loans**

- What happened?
- What efforts did investors and the SEC take to fix the problem?
- How did the market react?
- What took our market so long?

#### **COVID Disclosure**

- What happened?
- What efforts did the SEC take to help us?
- Where were we confused?
- What did we learn from it?

## What Has This Trajectory Taught Us?

- Investors are supposed to react to issuers not issuers to investors.
- Whenever we turn bonds into a transaction as opposed to a relationship with investors, we are missing the point.
- Things change and disclosure needs to change with it.
- It's critical to have a clear sense of what the law actually requires and why it requires it.

# What It Looks Like to Be An Organization That is Learning Disclosure

### A Learning Organization

- Do we know what we are supposed to know?
  - High-level legal "knowing"
    - Law but also what is the SEC doing and saying
  - What is going on in the market?
    - What are the hurdles that other issuers who are similarly situated struggling with, doing about their practices, and managing areas of concern
  - Cautionary tale

#### A Learning Organization (cont.)

- How do we know that we have the right members of the team?
  - Internal team
    - Do we have the right "ownership" team who will own the process for disclosure?
    - Do we bring together the right parts of the organization to make sure we are telling the story?
    - When was the last time it changed? (frequently if the team doesn't change it means key areas are left out)
  - External team
    - Does our external team bring together enough legal know-how, market knowledge and other expertise to complement the internal team?
  - Cautionary Tale

#### A Learning Organization (cont.)

- Do we know how to tell the credit story?
  - Finances and operations
    - Are we evaluating our finances and operations freshly to ensure that we know the story as that might have changed?
    - What does internal due diligence look like?
    - Think: pension disclosure escaped disclosure, could something else do that?
  - Bond Terms and Security and Source of Payment
    - Do we as the issuer think we are telling the right story about the bond terms and security and source of payment?
    - Think: bank loans escaped disclosure, could something else do the same?

#### A Learning Organization (cont.)

- Do we know how to tell the credit story? (Continued)
  - Perspective of an investor
    - Do we understand how an investor will look at the credit story?
    - Do we understand how that may be different than other financial stakeholders?
    - Do we have appropriate sensitivity for secondary market investors as well as primary offering investors?

# How Does an Issuer Assemble Its Internal and External Disclosure Team?

### Assembling the Right Team

#### Internal disclosure team

- Do we have the big picture people?
  - Much of the credit story disclosure failures came down to not having senior management in the room empowered to frame the story of the credit.
  - Who are the right people within the organization who can frame the big picture of the credit in way that enables the disclosure working group to be confident that they are not missing an "elephant in the room" just because they are not in a place to see that big picture?
  - Important consideration: Big picture people are not just important for facts they may know about the credit, but their perspective and vision for the credit.

- Internal disclosure team
  - Do we have the little picture people?
    - Much of the continuing disclosure failures was the lack of little picture people.
    - There needs to be a solid group of people who are focused on:
      - Are the right people reviewing the disclosure?
      - Are the policies and procedures being followed?
      - Are we paying attention to whether others in the organization should be involved?
    - Important consideration: The SEC has said that the single most important element to disclosure is to know who is responsible for what. This is often times a little picture exercise, not a big picture one.

#### ❖Internal disclosure team

- Do we have the right subject matter experts?
  - Pension disclosure in particular became problematic in large part due to the un-involvement or uninformed involvement of the pension system.
  - Whenever a topic is discussed in the disclosure, someone who is an expert is that information needs to speak for that for the issuer.
  - But this is also about looking for the right people to cover areas that are not discussed.
  - Efficiency of the process though needs to be considered it is important not to have so many people involved that the disclosure process becomes extremely difficult to manage.

- How internal disclosure teams have changed over time:
  - After pension disclosure, involved pension systems.
  - After New Jersey and related actions, creation of disclosure practices working group.
  - After MCDC, creation or further empowerment of a disclosure coordinator.
  - After COVID, increased reliance on experts on revenues.
  - After climate change concerns, capital projects and sustainability experts.
  - After cybersecurity concerns, IT security experts.
  - Going forward, increased budget experts?
  - It's helpful to have an annual procedure to work with your external disclosure team to consider whether other parts of the organization should be included in some fashion into the internal disclosure team.

- External disclosure team (referring to all of the working group – bankers, municipal advisors and attorneys)
  - Does your external disclosure team help to understand what you need to know?
  - Does your external disclosure team have a sense of issues that are arising outside of your organization?
  - Does your external disclosure team have a sense of the trends that should be focused on?

### What is the Point?

#### What is the point?

- Disclosure is always evolving
  - Finances and operations change over time and so do the key facts investors need to know.
  - The SEC changes its focus and priorities over time.
  - Sometimes the law actually changes.
- Being a learning organization comes down to evolving with those trends
  - Staying current on the legal and industry trends
  - Changing practices, evaluating team members, evaluating ongoing disclosure to fit where things are today regardless of what disclosure looked like before.

#### QUESTIONS?

**DANIEL DEATON**Partner

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# 15-MINUTE BREAK

#### **SESSION TWO**

Assessment and Disclosure of Changes in Long-Range Financial and Operational Conditions and Challenges



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Assessment and Disclosure of Changes in Long-Range Financial and Operational Conditions and Challenges

#### MARGARET BACKSTROM

Managing Director Morgan Stanley





## Every Organization Needs to Have a Long-range Financial Plan

#### Importance Of Long-range Planning

- You have a "fiduciary" duty to your organization
  - If not legally, then definitely professionally
- Without a long-term financial plan, how do you know:
  - Where you are financially
  - What the financial future looks like
  - Is your organization on financially sound ground
  - Do you need to make a course correction

#### Do You Have Outstanding Debt?

- You may need to inform the markets
  - This is a legal (contractual) obligation
- Is your variance material?

What are the service implications?

#### Preparing The Financial Plan

- The Plan does not need to be complex
- Should contain key revenue and expenditure components
- Make sure to capture future events
- Labor Agreements
- Facilities coming online
- Known/projected changes to revenues
- Should capture <u>at least</u> a five-year picture
- Clearly discuss your assumptions
- Update at least annually, but monitor monthly/quarterly
- Present annually to your governing board
- A simple PLAN is better than no PLAN

## What Do You Need To Pay Close Attention To?

#### Revenues

- Know your key drivers (perhaps your top 3 or 4 that could make or break your budget)
  - Property Tax
  - Sales Tax
  - Transient Occupancy Tax
  - Utility User Tax
  - Franchise Fees
  - Etc.
- Understand what moves them
- Monitor them regularly (some more regularly than others)
- Work with your department(s) who may also be monitoring them

#### Revenues (cont.)

- Property Tax
  - Who are your top 10 20 property tax generators?
  - Since Proposition 13, less volatile of a revenue source
- Sales Tax
  - Who are your top 10 20 sales tax generators?
  - Does it matter if one or more shut down?
- Franchise Fees
  - Understand your franchise ordinance and the changing technology
  - Does your ordinance reflect current/changing markets?
- Transient Occupancy Tax
  - How much do you rely on tourism/conventions?
  - Do you meet with your tourism authority/folks?

#### Revenues (cont.)

#### In the end...

- All revenue estimates are going to be wrong; it is just a question of by how much and in which direction
- Assessing risk tolerances Knowing the consequences when your estimates are off
- Be consistent with agency practice/budget standards
- Use "reasonable" assumptions

### Revenues (in millions) (cont.)

GENERAL FUND REVENUES	Fiscal Year 2025 Adopted Budget	Fiscal Year 2026	Fiscal Year 2027	Fiscal Year 2028	Fiscal Year 2029	Fiscal Year 2030
Property Tax	\$ 808.9	\$ 844.4	\$ 880.6	\$ 918.5	\$ 957.5	\$ 998.2
Sales Tax	393.5					445.3
Transient Occupancy Tax	172.8	176.4	185.1	194.4	204.0	214.2
Franchise Fees	123.7	120.8	117.0	120.4	126.8	134.7
Property Transfer Tax	10.1	10.9	11.3	11.8	12.3	12.8
Licenses and Permits	28.0	23.3	29.3	24.1	30.2	24.9
Cannabis Business Tax	19.4	18.2	19.0	19.7	20.4	21.1
Fines, Forfeitures and Penalties	31.2	31.6	32.1	32.6	33.1	33.5
Revenue from Money and Property	81.8	78.3	79.8	81.3	82.9	84.6
Revenue from Federal and Other Agencies	12.2	10.8	10.8	10.8	10.8	10.8
Charges for Services	281.7	267.5	276.0	284.1	288.9	295.8
Other Revenue	1.6	1.6	1.6	1.6	1.6	1.6
Transfers In	111.6	98.0	100.3	102.4	104.5	106.7
BASELINE GENERAL FUND REVENUES	\$ 2,076.5	\$ 2,074.7	\$ 2,146.1	\$ 2,218.4	\$ 2,303.8	\$ 2,384.4

#### Expenditures

- Again, know your key drivers (perhaps your top 2 or 3 that could make or break your budget)
  - Salary
  - Overtime
  - Pension Payments
- Know which departments could have the biggest impact
  - Public Safety
- Understand your labor agreements
- Are any new facilities coming online in the near future?
- Are there any significant projects under construction?

## Expenditures (cont.)

- Salaries
  - Memorandum of Understanding
    - Is someone from Finance at the table?
    - Do you use your financial plan to evaluate proposals?
    - Are you paying attention to the impact on salary related costs?
- Overtime
  - Harder to control
  - Public Safety is the primary violator of the overtime budget
- Benefits
  - What is happening to your pension liability?
  - What is happening to your OPEB liability?
  - Do you even understand how these liabilities are calculated?

GENERAL FUND EXPENDITURES	Fiscal Year 2025 Adopted Budget	Fiscal Year 2026	Fiscal Year 2027	Fiscal Year 2028	Fiscal Year 2029	Fiscal Year 2030
Salaries & Wages (Current Negotiated MOUs; Annualized Positions; Step Increases; DROP Payments)	\$ 925.7	\$ 986.9	\$ 988.9	\$ 989.1	\$ 989.4	\$ 989.6
Salaries & Wages (Assumed General Wage Increases at 2.73% annually)		0.1	24.9	50.5	76.7	103.6
Retirement Actuarially Determined Contribution (ADC) <sup>1</sup>	357.2	364.3	369.7	381.4	328.6	332.7
Estimated Increase in ADC due to Investment Losses <sup>2</sup>		0.0	0.0	0.0	0.0	0.0
Estimated Amortization of Proposition B Unfunded Liability		0.0	0.0	0.0	0.0	0.0
Employee Flexible Benefits	104.6	106.9	107.4	107.4	107.4	107.4
Other Post Employment Benefits (OPEB)	32.2	31.6	30.9	30.3	29.7	29.1
Workers' Compensation	33.0	39.2	42.7	46.5	50.6	55.0
Supplemental Pension Savings Plan (SPSP)	10.9	10.9	10.9	10.9	10.9	10.9
Other Fringe Benefits	39.7	40.8	41.6	41.9	42.3	42.8
Personnel Expenditures	\$ 1,503.2	\$ 1,580.6	\$ 1,617.1	\$ 1,658.1	\$ 1,635.6	\$ 1,671.2

## Expenditures (cont.)

- Non-Personnel
  - Contractual Services
  - Debt Service
  - New facilities
  - Emergencies

GENERAL FUND EXPENDITURES	Fiscal Year 2025 Adopted Budget		Fiscal Year 2026		Fiscal Year 2027		Fiscal Yea 2028		ear Fiscal Year 2029		Fi	scal Year 2030
Supplies	\$	31.5	\$	39.5	\$	40.3	\$	41.1	\$	42.0	\$	42.8
Contracts & Services		387.6		394.0		409.0		420.7		438.1		449.3
Information Technology		59.2		60.2		61.0		61.7		65.4		71.9
Energy and Utilities		70.9		74.5		78.5		83.1		88.9		96.0
Reserve Contributions		0.0		63.2		24.3		24.7		24.8		30.5
Charter Section 77.1 - Infrastructure Fund Contribution		21.1		8.8		11.1		16.7		22.6		28.8
Other Expenditures		87.5		112.2		122.4		129.2		158.4		163.2
Non-Personnel Expenditures	\$	657.7	\$	752.3	\$	746.6	\$	777.2	\$	840.3	\$	882.6
BASELINE GENERAL FUND EXPENDITURES	\$	2,160.9	\$	2,332.9	\$	2,363.7	\$	2,435.3	\$	2,475.9	\$	2,553.8

Table 1.1 - Fiscal Year 2026-2	030 Finan cial	Outlook			
Summary of Key Financial	Data (\$ in M	illions)			
	Fiscal Year 2026	Fiscal Year 2027	Fiscal Year 2028	Fiscal Year 2029	Fiscal Year 2030
Property Tax	\$844.4	\$880.6	\$918.5	\$957.5	\$998.2
Sales Tax	\$392.8	\$403.0	\$416.6	\$430.7	\$445.3
Transient Occupancy Tax	\$176.4	\$185.1	\$194.4	\$204.0	\$214.2
Franchise Fees	\$120.8	\$117.0	\$120.4	\$126.8	\$134.7
All Other Revenue Categories	\$540.4	\$560.3	\$568.5	\$584.7	\$592.0
BASELINE GENERAL FUND REVENUES	\$2,074.7	\$2,146.1	\$2,218.4	\$2,303.8	\$2,384.4
Salaries & Wages (Current MOUs)	\$986.9	\$988.9	\$989.1	\$989.4	\$989.6
Salaries & Wages (Assumed General Wage Increases at 2.73% Annually)	\$0.1	\$24.9	\$50.5	\$76.7	\$103.6
Retirement Actuarially Determined Contributions (ADC)	\$364.3	\$369.7	\$381.4	\$328.6	\$332.7
All other Personnel Expenditures	\$229.4	\$233.6	\$237.1	\$241.0	\$245.3
Non-Personnel Expenditures	\$680.4	\$711.2	\$735.8	\$792.9	\$823.3
Charter Section 77.1 - Infrastructure Fund Contribution	\$8.8	\$11.1	\$16.7	\$22.6	\$28.8
BASELINE GENERAL FUND EXPENDITURES (LESS RESERVE CONTRIBUTIONS)	\$2,269.8	\$2,339.4	\$2,410.5	\$2,451.1	\$2,523.2
	(4107.0)	(100 A)	(4100.0)		<b>(2100 c</b>
BASELINE (SHORTFALL)/ SURPLUS (LESS RESERVE CONTRIBUTIONS)	(\$195.0)	(\$193.4)	(\$192.2)	(\$147.3)	•
Reserve Contributions	\$63.2	\$24.3	\$24.7	\$24.8	\$30.5
BASELINE (SHORTFALL)/ SURPLUS	(\$258.2)	(\$217.6)	(\$216.9)	(\$172.1)	(\$169.4

EXPENDITURES 2025	cal Year Adopted Fiscal Year 2026	Fiscal Year Fiscal 2027 202		Fiscal Year 2030	
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NEW FACILITIES	\$ 9.3	\$ 13.9	\$ 14.6	\$ 20.9	\$ 21.4
PLANNED					
COMMITMENTS	\$ 61.8	\$ 71.0	\$ 75.9	\$ 80.9	\$ 85.5

(AMOUNT TO BE						
MITIGATED) / AVAILABLE						
RESOURCES <sup>3</sup>	\$ (329.3)	\$ (302.6)	\$ (307.4)	\$ (273.9)	\$ (276.3)	

## Assess the Risk Tolerance

What if you are off by 5%, 10%, 20%, etc.?

Make sure you understand what is causing the variance

 How easily can you make a mid-term budget adjustments?

# So Now You Have An Idea Of Where You Are And Where You're Going

- What do you do now?
  - Annually present this plan/forecast to your governing board
  - Post it on your website (investor page)
  - Update at least annually
  - Monitor monthly/quarterly
- Recognize your obligation to publicly disclose (specifically to investors) any "material" variances
  - EMMA

# When and How Should You Disclose What You Know?

## Outline

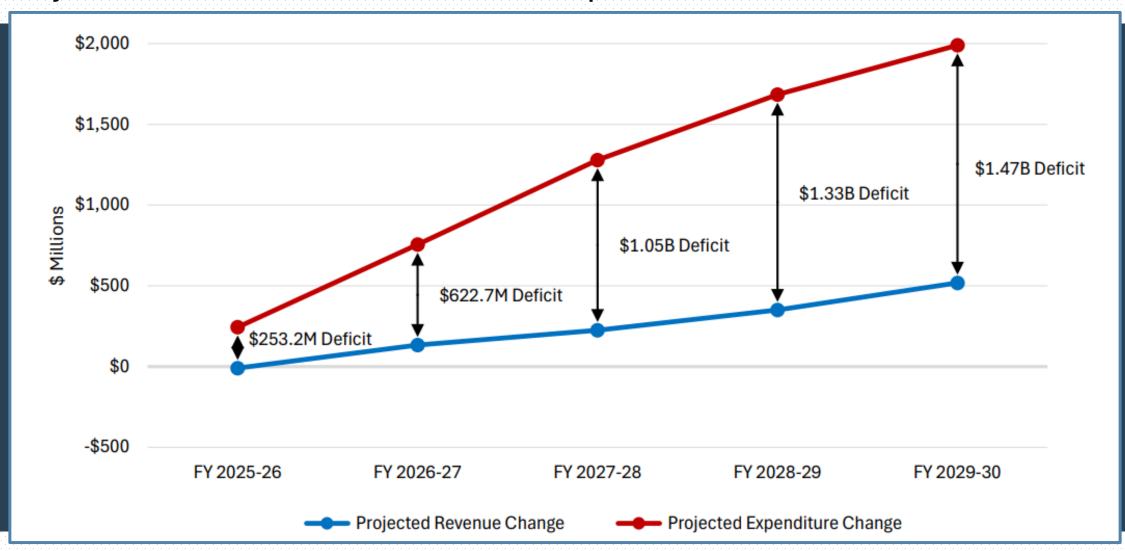
- Background on San Francisco
  - Financial Planning
  - Fiscal Reports
  - Frequency of reporting
- New Issuance Disclosure
- Ongoing Investor Communications

## San Francisco – Financial Planning

- The 5-Year Financial Plan
  - Required under Prop A charter amendment (November 2009)
  - Impact of current service levels and polices on revenues and expenditures
- Longer Term Planning
  - Pension (10-year projections) and OPEB
  - Capital and Deferred Maintenance

## San Francisco – Financial Planning (cont.)

Projected Growth in General Fund Expenditures & Revenues



## San Francisco – Fiscal Reports

- Regular reporting cycle
  - Five-Year Financial Plan with periodic updates
  - Annual Comprehensive
     Financial Report
  - Budget Status Updates
    - Six-Month Report
    - Nine-Month Report
  - Budget and Revenue Letter



## Pandemic Example #1

- During extraordinarily high levels of uncertainty, more frequent updates may be needed/helpful
  - 3-month report published in November of 2020

Changes from Adopted Budget (\$ in M)	FY 2020-21
FY 2019-20 estimated fund balance	21.3
Citywide Revenue	-143.5
Baseline Offsets	46.4
Departmental Revenues and Expenses	-51.3
November 2020 Local Ballot Measures	11.3
Surplus/ (Shortfall)	-115.9



#### OFFICE OF THE CONTROLLER CITY AND COUNTY OF SAN FRANCISCO

Ben Rosenfield

Todd Rydstrom

Deputy Controller

Mayor London Breed

President Norman Yee and Members of the Board of Supervisors

Ben Rosenfield, Controller

DATE: November 10, 2020

SUBJECT: FY 2020-21 3-Month Budget Status Report

#### **EXECUTIVE SUMMARY**

The Controller's Office provides periodic budget status updates to the City's policy makers during each fiscal year, as directed by Charter Section 3.105. The level of uncertainty of both City revenues and expenditures is historically high due to the operational and economic effects brought on by the COVID-19 pandemic.

In summary, our projection of General Fund revenues and expenditures indicates a General Fund shortfall of \$115.9 million in the current fiscal year. This is predominantly comprised of weakness in key tax and fee revenues driven by a slower economic recovery than was anticipated in the adopted budget. This weakness is partially offset by a higher than projected balance available from the prior year. Required reserve deposits in the prior year are expected to be higher than previously expected, as detailed in the appendix to this report, and could be used to offset a portion of the current year projected shortfall or retained for challenges in future fiscal years.

The level of uncertainty regarding city revenues and expenditures remains extraordinarily high, driven by the economic and financial impacts of the public health emergency. We will continue to provide regular budget updates throughout the year as conditions change.

#### Table 1. FY 2020-21 Projected General Fund Variances to Budget (\$ million)

Changes from Adopted Budget	FY 2020-21
A. FY 2019-20 estimated fund balance (pre-audit)	21.3
B. Citywide Revenue	(143.5)
C. Baseline Offsets	46.4
D. Departmental Revenues and Expenditures	(51.3)
E. November 2020 Local Ballot Measures	11.3
F. COVID Emergency Response	

CITY HALL + 1 DR. CARLTON B. GOODLETT PLACE + ROOM 316 + SAN FRANCISCO, CA 94102-4694 PHONE 415-554-7500 + FAX 415-554-7466

## Pandemic Example #2

- Monthly reports

   published from June

   2021 through July 2023
- Bi-monthly reports published currently

Status of the Re-Opening of the San Francisco Economy:

June 2021



#### **CITY & COUNTY OF SAN FRANCISCO**

Office of the Controller
Office of Economic Analysis

June 24, 2021

## Types of Investor Disclosure

- New Issuance Disclosure
- Official Statement / Appendix A

- Ongoing Investor Disclosures
- Annual Continuing Disclosure Report
- Investor Relations Website

## New Issuance Disclosure

- Appendix A
  - City Financial Challenges upfront
  - Budgetary Risks section
    - Threat of Recession
    - Impact of Commuting Pattern Changes on Business Taxes
    - Office Vacancy in San Francisco; Impact on Property Taxes and Other Revenues
    - Business Tax Litigation
    - Impact of the State of California Budget on Local Finances
    - Impact of Federal Government on Local Finances
    - Etc.,....

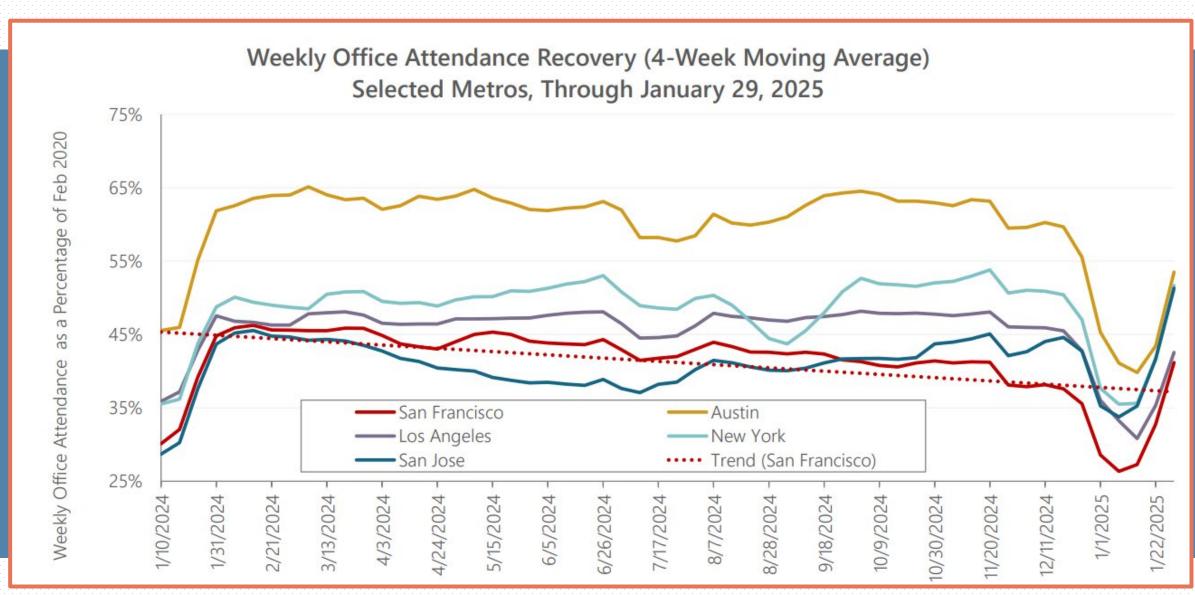
## Appendix A

New introductory paragraph, followed by highlights from recent reports

#### **City Financial Challenges**

The City continues to face material financial challenges, including actual and projected revenue losses, resulting from a variety of factors, including continuing remote work by a significant portion of the workforce (which has led to vacancies and declining property taxes for certain office buildings, lower real estate property transfer taxes, and reductions in taxes based on employees physically located in the City), continued weakness in the local hospitality and convention industries (resulting in declines in hotel and sales taxes from pre-pandemic levels), reduced funding to the City in State budgets, potential losses from litigation challenging the City's business taxes, uncertainty about receipt of outstanding FEMA reimbursements and general economic conditions. The City has experienced the largest increase in office vacancy among major urban office markets in the United States, from 5.6% in the fourth quarter of 2019 to 34.5% in the third quarter of 2024. As further described in APPENDIX A hereto, the conditions discussed above have contributed to projected budget deficits (absent corrective actions) in the hundreds of millions of dollars in future fiscal years, rising to approximately \$1.47 billion in fiscal year 2029-30.

## Appendix A –Post Pandemic Impacts



## Ongoing Investor Disclosures

Annual Continuing Disclosure Report

#### II. Recent Events

#### Public Health Emergency – COVID-19

On February 11, 2020 the World Health Organization ("WHO") announced the official name for the outbreak of a new disease ("COVID-19") caused by a strain of novel coronavirus, an upper respiratory tract illness which has since spread across the globe. The spread of COVID-19 is having significant adverse health and financial impacts throughout the world, including the City and County of San Francisco ("City"). The WHO has declared the COVID-19 outbreak to be a pandemic, and states of emergency have been declared by the Mayor of the City, the Governor of the State and the President of the United States.

As of March 1, 2021, there were over 34,000 confirmed cases of COVID-19 in the City, and health officials expect the number of confirmed cases to continue grow. The outbreak has resulted in the imposition of restrictions on mass gatherings and widespread closings of businesses, universities and schools (including the San Francisco Unified School District) throughout the United States. On June 8, 2020 the National Bureau of Economic Research announced that the U.S. officially entered into a recession in February 2020. In addition, capital markets in the United States and globally have been volatile.

## **Investor Relations Website**

#### Controller's Office of Public Finance



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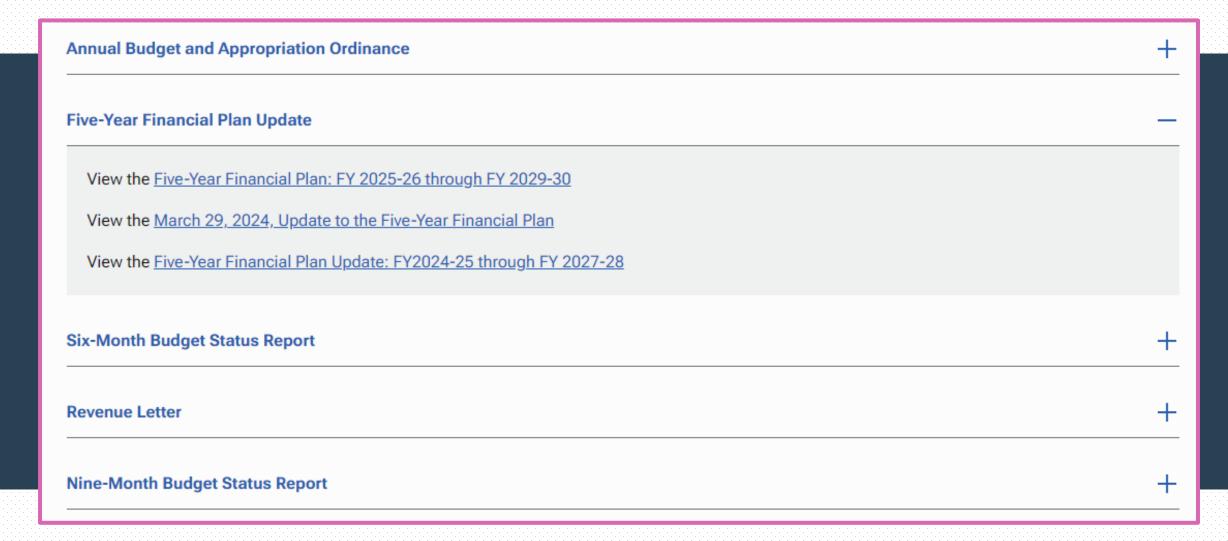
Read our disclaimer here

## Investor Relations Website (cont.)

#### Market Disclosure and Reports

Primary Market Disclosure (Official Statements)	$\rightarrow$	Annual Secondary Market Disclosure	$\rightarrow$
Outstanding Debt & Long Term Obligations	$\rightarrow$	City Credit Ratings	$\rightarrow$
Annual Comprehensive Financial Reports (ACFR)	$\rightarrow$	Special Tax District Reports	$\rightarrow$
Citywide Fiscal Reports	$\rightarrow$	Search all Controller's Office reports	$\rightarrow$
		Find audits, budgets, whistleblower complaints, performance reports, and Civil Grand Jury status reports.	

## Investor Relations Website (cont.)



# DISCUSSION

## QUESTIONS?



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#### SESSION THREE

### Technology Topics: Disclosable Risks and Opportunities



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## Introduction

- Current disclosure guidance
- Issuer perspective; strategic planning
- Investor perspective and expectations
- Discussion application of guidance and advice
- Federal Data Transparency Act

## Basis of SEC Regulation

- Municipal securities are exempt from registration with the SEC
- Continued applicability of the Anti-Fraud Rules
  - Obligation to avoid material misstatements and omissions in disclosures
    - Includes official statements, annual reports, annual comprehensive financial reports and voluntary statements
- SEC rules for public companies as guidance

## Applicable Guidance

- SEC Final Rule: Cybersecurity Risk Management,
   Strategy, Governance, and Incident Disclosure –
   Adopted on July 26, 2023; effective September 5, 2023
- SEC Statement: The Importance of Disclosure for our Municipal Markets – Issued May 4, 2020

# Final Rule on Cybersecurity Disclosure GENERAL

- Requires public companies to:
  - Report material cybersecurity incidents
  - Provide disclosure on cybersecurity risk management and governance
- Guidance for municipal entities

- Disclose any cybersecurity incident issuer determines to be material,
   including
  - o material aspects of the nature, scope, and timing of the incident
  - material impact or reasonably likely material impact of the incident on the issuer, including its financial condition and results of operations

- "Cybersecurity incident" means an <u>unauthorized occurrence</u>, or a <u>series of related unauthorized occurrences</u>, on or conducted through a registrant's information systems that jeopardizes the confidentiality, integrity, or availability of a registrant's information systems or any information residing therein.
  - To be broadly construed
  - Includes a series of events that are material, even if the individual incident is
     not

"Information systems" means electronic information resources, <u>owned</u>
 or <u>used by the registrant</u>, including physical or virtual infrastructure
 controlled by such information resources, or components thereof,
 organized for the collection, processing, maintenance, use, sharing,
 dissemination, or disposition of the registrant's information to maintain
 or support the registrant's operations.

- Includes incidents on systems of a third-party service provider (e.g., cloud service providers)
- Suggests policies and procedures that take into account third-party oversight and reporting
- For such disclosure
  - o based on the information available to registrant
  - no requirement for additional inquiries outside of the regular channels of communication with third-party service providers pursuant to those contracts and existing disclosure controls and procedures

- Materiality determination remains unchanged
  - Case law has established that information is material if there is a "<u>substantial likelihood</u> that, under all the circumstances, the omitted factor would have assumed actual significance in the deliberations of a <u>reasonable</u> [investor]"
  - "Reasonable" investor is an objective standard

- Materiality depends upon a balancing of both the indicated probability that the event will occur and the anticipated magnitude of the event
- A misstatement or omission may be material if it affects rating, yield, risk of early redemption, etc., even if it does not present a risk of default
- Confidentiality, business concerns, and political sensitivity are not exceptions to application of disclosure rules

- Departs from original proposal in that public companies are not required to disclose incident remediation status, whether it is ongoing, or whether data was compromised
  - While some incidents may still necessitate disclosure for example, discussion of data theft, asset loss, intellectual property loss, reputational damage, or business value loss – registrants will make those determinations as part of their materiality analyses

 Registrant need not disclose specific or technical information about its planned response to the incident or its cybersecurity systems, related- networks and devices, or potential system vulnerabilities in such detail as would impede the registrant's response or remediation of the incident

- Determine the materiality of an incident without unreasonable delay following discovery
- Public companies are required to file a statement with the SEC within four business days of such determination
  - Note period begins with materiality determination, not breach
  - Municipal issuers not subject to similar timing constraints
  - Abide by internal processes and procedures

- Disclosure may be delayed if the United States Attorney General determines that immediate disclosure would pose a substantial risk to national security or public safety
  - Similar to no confidentiality exception to Anti-Fraud Rules
  - Municipal issuers do not have an obligation to speak absent a contractual undertaking or if there is an offering

- The final rules do not separately create or otherwise affect a registrant's duty to update its prior statements
  - Except with respect to previously undetermined or unavailable information
  - Duty to correct prior disclosure that the registrant determines was untrue (or omitted a material fact necessary to make the disclosure not misleading) at the time it was made
  - Duty to update disclosure that becomes materially inaccurate after it was made (for example, when the original statement is still being relied on by reasonable investors)

# Final Rule on Cybersecurity Disclosure RISK MANAGEMENT AND STRATEGY

- Describe processes, if any, for assessing, identifying, and managing material risks from cybersecurity threats in sufficient detail for a reasonable investor to understand those processes
- Describe whether any risks from cybersecurity threats, including as a result of any previous cybersecurity incidents, have materially affected or are reasonably likely to materially affect the registrant, including its business strategy, results of operations, or financial condition and, if so, how

# Final Rule on Cybersecurity Disclosure GOVERNANCE

- Describe the governing board's oversight of risks from cybersecurity threats
- Describe management's role in assessing and managing the registrant's material risks from cybersecurity threats (e.g., use of committees and process for information board)

## SEC 2020 Statement on Importance of Disclosure

- Related to COVID-19 pandemic; applies to voluntary statements generally
- SEC recommends that the disclosure on financial and operating conditions be accompanied by
  - omeaningful cautionary language, description of facts or assumptions affecting the reasonableness of reliance on and the materiality of the information provided
  - ocautionary language on how certain information may be incomplete or unaudited
  - oforward-looking statements
- Consistency with internal reports

## THREAT LANDSCAPE & CISA RESOURCES



Donald E. Hester CISA Cybersecurity Advisor – Northern California Region 9 (AZ, CA, HI, NV, AS, CNMI and GU) Cell: +1 (202) 315-8091 | Teams +1 (202) 984-3677

Email: donald.hester@cisa.dhs.gov

# **Cyber Threat Continuum**

HACKTIVISM

Hacktivists might use computer network exploitation to advance their political or social causes.

CTIONS

CRIME



Individuals and sophisticated criminal enterprises steal personal information and extort victims for financial gain. INSIDER



Insider threat actors typically steal proprietary information for personal, financial, or ideological reasons. **ESPIONAGE** 



Nation-state actors might conduct computer intrusions to steal sensitive state secrets and proprietary information from private companies. **TERRORISM** 



WARFARE

Terrorist groups might seek to sabotage the computer systems that operate our critical infrastructure.

Nation-state actors might attempt to sabotage military and critical infrastructure systems to gain an advantage in the event of conflict.



## **ODNI Annual Threat Assessment**

### **Cyber Crime**

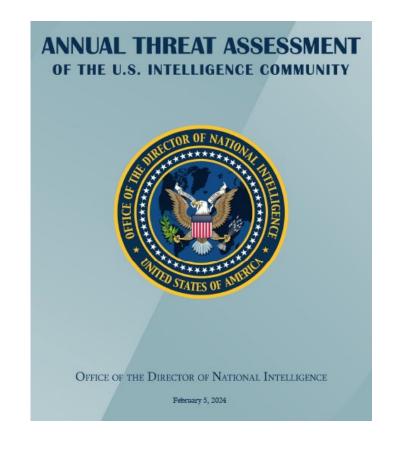
"Transnational organized criminals involved in ransomware operations are improving their attacks, extorting funds, disrupting critical services, and exposing sensitive data."

### **Disruptive Technology**

"New technologies—particularly in the fields of AI and biotechnology—are being developed and are proliferating at a rate that makes it challenging for companies and governments to shape norms regarding civil liberties, privacy, and ethics."

### **Health Security**

"National health system shortfalls, public mistrust and medical misinformation, and eroding global health governance will impede the capacity of countries to respond to health threats."





## 2024 ODNI Annual Threat Assessment

### **Foreign Threat Actors**



### PEOPLE'S REPUBLIC OF CHINA

"China remains the most active and persistent cyber threat to U.S. Government, private-sector, and critical infrastructure networks."



### **IRAN**

"Iran's growing expertise and willingness to conduct aggressive cyber operations make it a major threat to the security of U.S. and allied and partner networks and data."



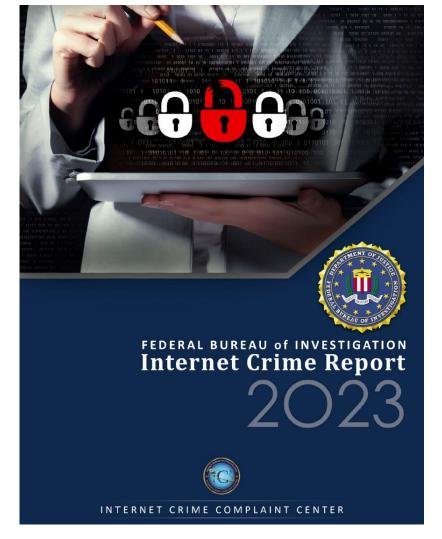
### **RUSSIA**

"Russia will pose an enduring global cyber threat even as it prioritizes cyber operations for the Ukrainian war."



# IC3 Internet Crime Report 2023

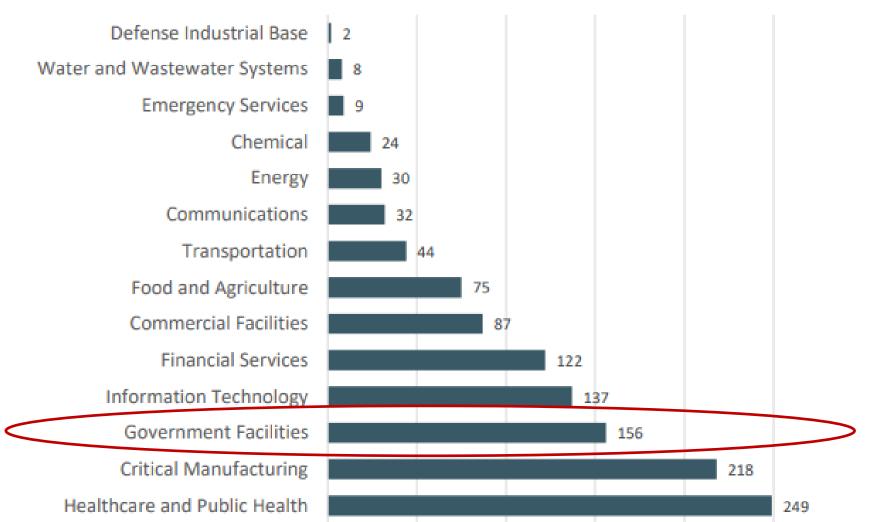






# Sectors Affected by Ransomware

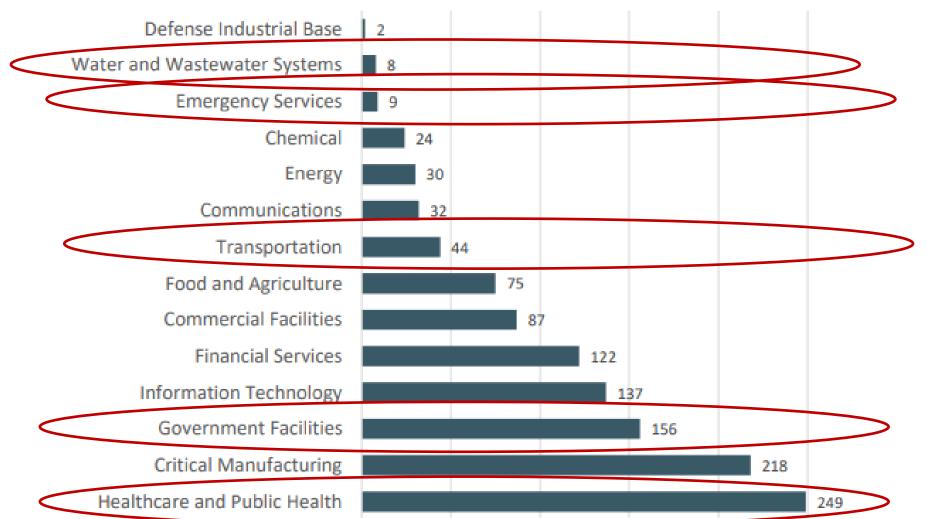
### Infrastructure Sectors Affected by Ransomware





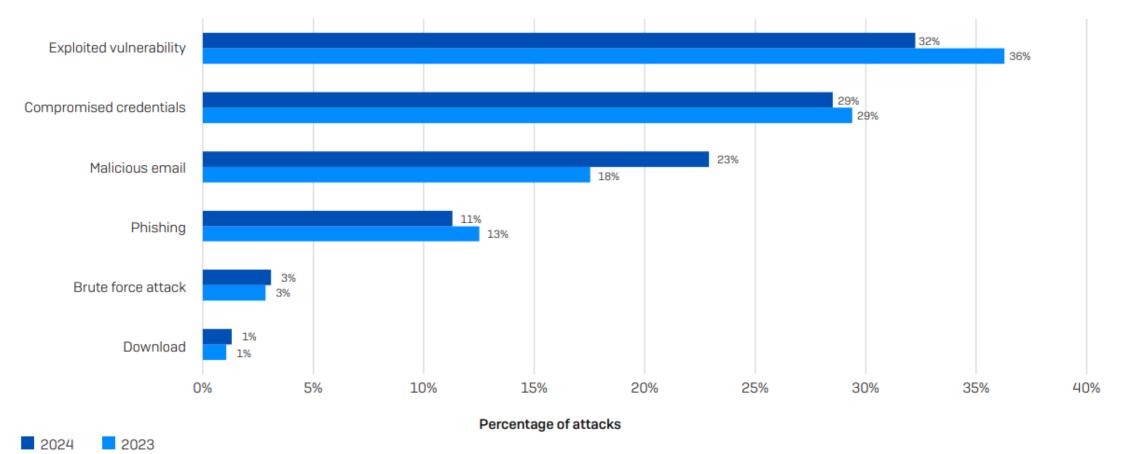
# **Sectors Affected by Ransomware**

### Infrastructure Sectors Affected by Ransomware

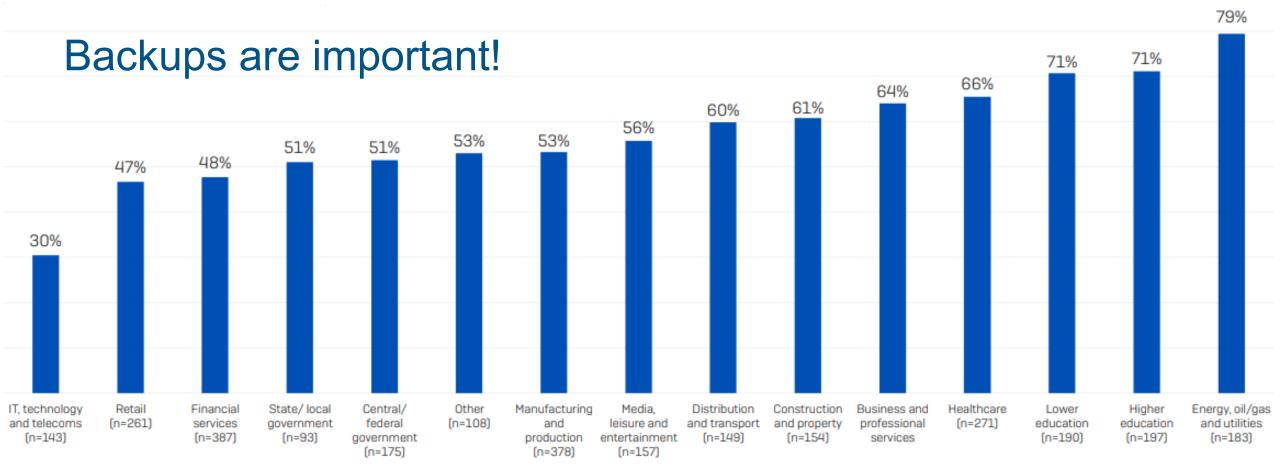




## Causes of Ransomware Attack







- Ransom demands were, on average, more than double that of those whose backups weren't impacted (\$2.3M vs. \$1M median initial ransom demand)
- Organizations whose backups were compromised were almost twice as likely to pay the ransom to recover encrypted data (67% vs. 36%)
- Median overall recovery costs came in eight times higher (\$3M vs. \$375K) for those that had backups compromised

# **Recovery Costs**



What was the approximate cost to your organization to rectify the impacts of the most significant ransomware attack (considering downtime, people time, device cost, network cost, lost opportunity etc.)? n=2,974 (2024)/1,974 (2023)/3,702 (2022)/2,006 (2021). N.B. 2022 and 2021 question wording also included "ransom payment".



## **IOCTA 2024**

- The number of cybercriminals entering the market continues to grow steadily, both due to new technologies, which effectively lower the entry barriers, and to an increasing complexity of the digital infrastructure, which widens the potential attack surface.
- High-level affiliates and developers remain an important asset, with different ransomware-as-aservice (RaaS) providers competing for their services.





## Critical Infrastructure

- Domestic and foreign adversaries almost certainly will continue to threaten the integrity of our critical infrastructure with disruptive and destructive cyber and physical attacks, in part, because they perceive targeting these sectors will have cascading impacts on US industries and our standard of living.
- We expect adversarial state cyber actors will continue to **seek access** to, or to **pre-position** themselves on, US critical infrastructure networks.











## Critical Infrastructure

- In addition to our adversaries targeting US critical infrastructure for destructive and disruptive attacks, adversaries also target the entities that make up critical infrastructure sectors for foreign intelligence collection.
- Adversarial nation-states continue to use cyber tactics to access and steal sensitive information from US networks, including those of entities that are part of critical infrastructure, for broader espionage purposes to advance their military, diplomatic, and economic goals.

Homeland Threat Assessment







# Disruptive Technology: Al Threats

- Attacks on AI Systems
- Al Enabled Phishing
- Al Enabled Vulnerability Research
- Al Enabled Hacking
- Used to Create Disinformation
- Voice Cloning





# **Key Takeaways**

- Top threat actors are Nation States and cyber criminals
- Outdated software and vulnerabilities are highest risk
- Stolen credentials are the next highest risk
- The average cost of a cyber incidents is up
- Keep a close eye on disruptive technologies
- Good backups will save you money
- Patch Management and MFA greatly reduce risk





# CISA Can Help

- Risk Assessment Services
  - Cyber Performance Goals (Assessment)
  - Ransomware Readiness Assessment
  - Cyber Hygiene (Vulnerability Scanning)
  - Tabletop Exercises
- CISA Resources and Services
  - No Cost



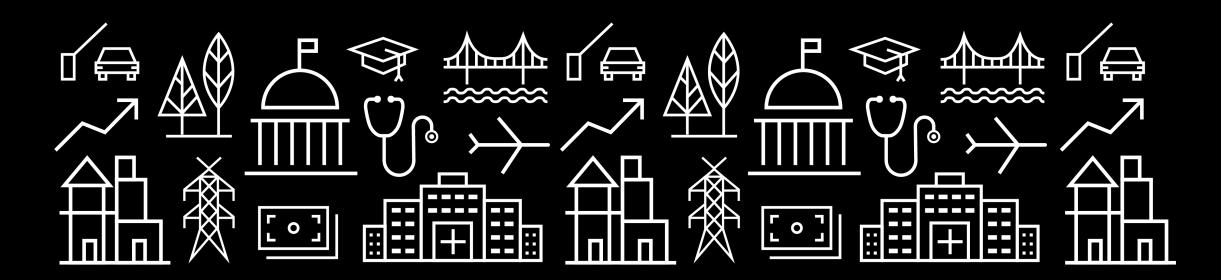


# When you get back to the office...

- Contact your local Cybersecurity Advisor (CSA)
- Sign up for Cyber Hygiene scanning service
- Contact CSA for guided self-assessment of the Cyber Performance Goals (CPG) & Ransomware Readiness Assessment (RRA)
- Schedule a Tabletop Exercise
- Find more at <a href="https://www.cisa.gov/">https://www.cisa.gov/</a>



# **Cybersecurity Through a Ratings Lens**



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## **Agenda**

- US Public Finance overview
- Why cyber?
- Trends in cyber attacks
- How incorporated into rating methodology and what factors are important to investors?
- Questions you may be asked by an S&P Global Ratings' analyst
- Q&A

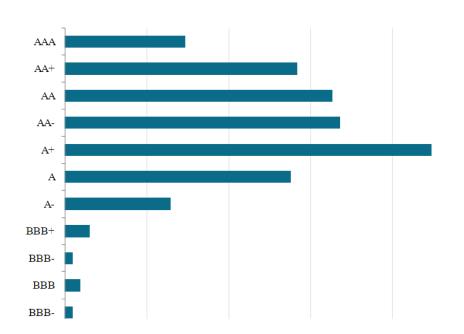
### **US Local Government - Sector Summary**

### **Ratings distribution**

### What We're Watching for 2025

#### Local government ratings distribution

As of Dec. 31, 2024



#### Local Governments | 2025 Outlook -- What We're Watching



#### Federal policy initiatives

Uncertainty of impact from pending Trump administration policies on immigration and trade could affect both revenues and expenditures.



#### Federal budget

A closely divided Congress will ensure difficult budget negotiations, including renegotiation of the TCJA.



#### Stimulus winddown

Deadlines for spending and designating could cause operating imbalances if the loss of one-time federal revenues isn't managed proactively.



#### Slower economic trends

Commercial real estate occupancy may have steadied, but given projections for slower GDP growth and elevated inflation, economic pressures remain.



#### Climate hazards

Higher-cost, higher-frequency major storms are likely to pressure government debt and push up insurance costs.



#### Governance gets trickier

Skilled labor shortages-including among auditors--and management turnover could raise governance risk at a point of fiscal and economic inflection.

TCJA--Tax Cut and Jobs Act. Source: S&P Global Ratings.
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S&P Global Ratings



### **Cyber Headlines & Trends**

As of Dec. 2023, the U.S. Securities and Exchange Commission (SEC) has required public companies to report material cyber security incidents on a Form 8-K within four business days of materiality determination.

"In 2024, the average cost of a data breach reached a staggering \$4.88 million, marking a 10% increase over last year." IBM Security's Cost of a Data Breach Report 2024

"68% of all breaches include the human element, with people being involved either via Error, Use of stolen credentials or Social Engineering." Verizon's 2024 Data Breach Investigations Report

"67% of the 10,626 breaches reviewed in 2024 were done by **organized crime** (less than 10% nation-state or state-affiliated actors)." Verizon's 2024 Data Breach Investigations Report

"Sadly, too few organizations learn how valuable MFA is until they experience a breach." Jen Easterly, Director U.S. Cybersecurity and Infrastructure Security Agency

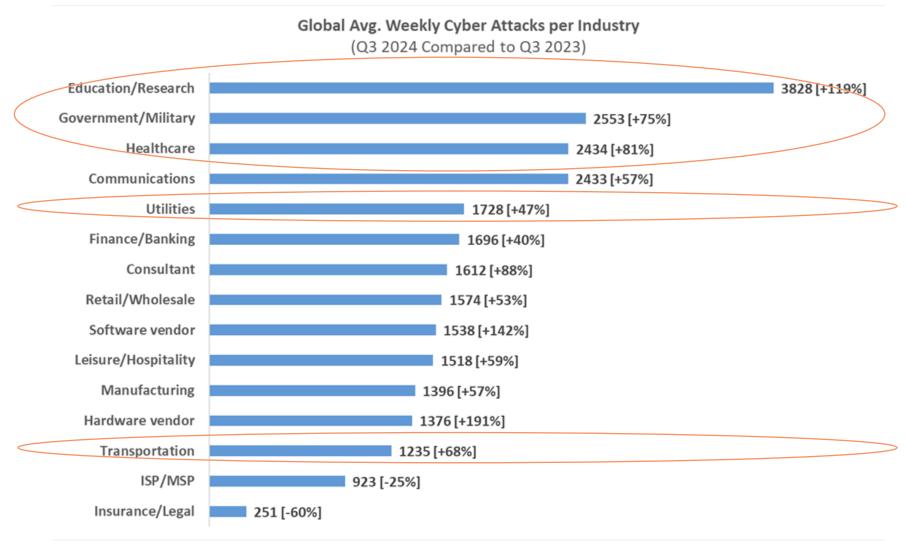
"This is the new frontier of cybersecurity—an arms race where we're not just battling hackers, but also battling Al-powered machines that can think, adapt, and innovate faster than ever before." Forbes, October 2024

"U.S. utilities faced a near 70% jump in cyberattacks this year over the same period in 2023, according to data from Check Point Research, underlining the escalating threat to a critical infrastructure." Reuters Sept 2024

"The ransomware attack against Scripps Health that led to more than four weeks of electronic health record (EHR) downtime procedures and the theft of some patient data, resulted in \$112.7 million in estimated revenue loss and incremental expenses." Scripps, Aug. 10, 2021

### **S&P Global Ratings | Cyber Risk Management**

### **Cyber attacks Increasing Across All Industries**





### **S&P Global Ratings | Cyber Risk Management**

### **Cyberattacks lifecycle**



**Preparation:** Conduct initial due diligence and develop a malware payload that is tailored to the target organization.



**Delivery:** Introduce the malware payload into the target organization's systems through actions such as phishing or social engineering.



**Exploitation:** Use the malware payload to exploit a vulnerability in the target organization's systems to gain initial access.



**Persistence and control:** Establish persistence and control by using the malware payload to install backdoors and command channels.



**Actions:** Use command channels to conduct desired activities including internal reconnaissance, lateral movement, privilege escalation, data exfiltration, encryption, and business interruption.

Source: S&P Global Ratings.

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### **S&P Global Ratings | Cyber Risk Management**

### Key takeaways from recent cyber incidents



#### **Business impact**

- Operations disrupted
- Containment measures
- Manual workarounds or partial service levels
- Reputational risk and brand damage



#### Communication

- Extensive investigations
- Comply with external reporting rules
- Inform and update diverse stakeholders
- Employee business process updates



#### M&G

- Reduce management bandwidth
- Multiple external and internal parties involved
- Enhance cyber security framework
- Expand employee training and awareness to cover new risk areas



### Financial impact

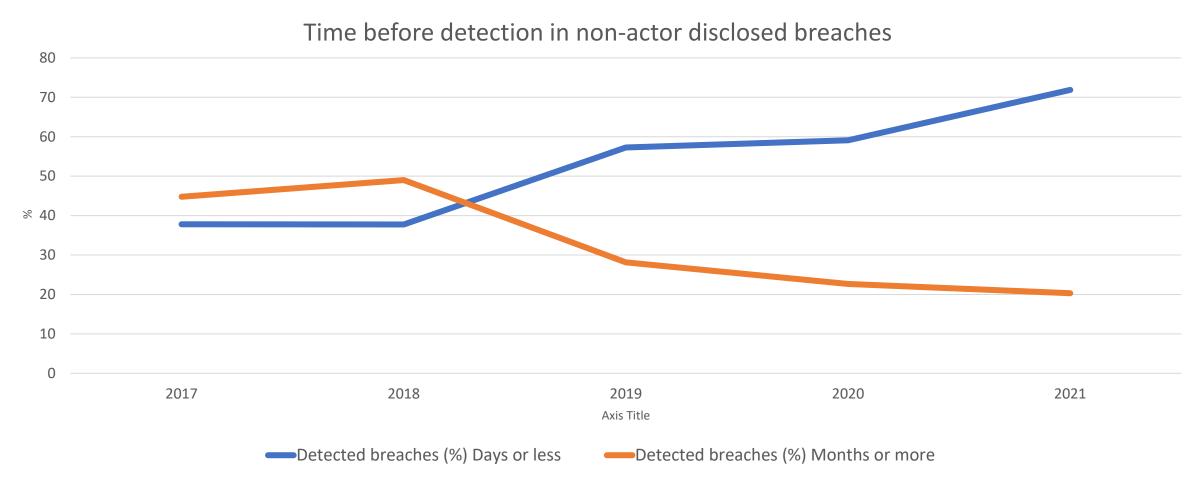
- Increase in opex and capex spend to implement remediation program
- Cyber insurance—loss recovery and exclusions
- Financial position and liquidity
- Regulatory fines or litigation risk

M&G--Management and governance, Opex--Operational expenditure, Capex--Capital expenditure, Source: S&P Global Ratings.

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### **S&P Global Ratings | Cyber Attack Detection is Accelerating**

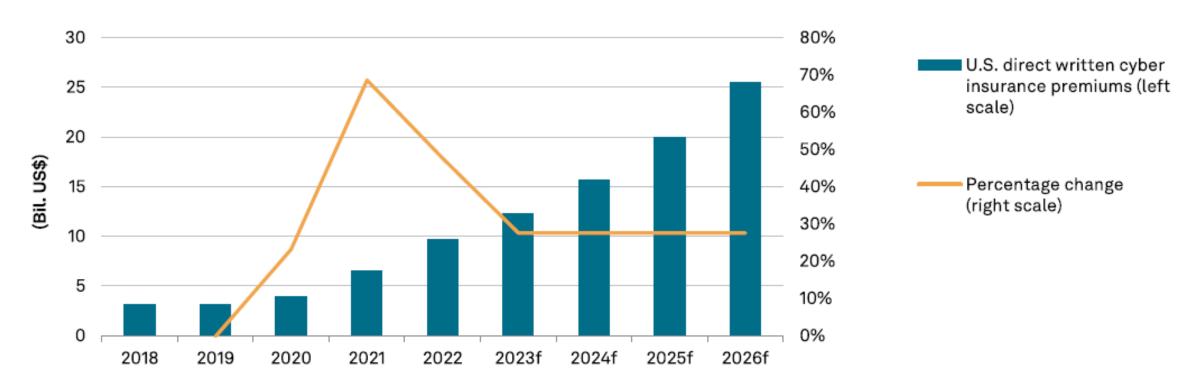


Sources: S&P Global Ratings. 2022 Data Breach Investigations Report, Verizon.



### **S&P Global Ratings | Cyber Insurance**

### U.S. cyber insurance premiums will continue to climb



f--Forecast. Source: National Association of Insurance Commissioners, S&P Global Ratings Copyright © 2024 by Standard & Poor's Financial Services LLC. All rights reserved.



### **U.S. Public Finance | Cyber Risk Management**

### What we're watching







Source: S&P Global Ratings.

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#### U.S. Public Finance | Sample Questions – All Issuers

- 1. What steps have you (the Issuer) taken to identify and protect your assets and data from cyberattacks?
  - Device registration and access controls
  - Firewalls, staff training, virus, and malware scans
  - •Two-signature requirements on wire transfers and payments
- 2. What policies and practices have you implemented to enable you to detect, respond to, and recover from a cyberattack?
  - Data recovery plans including offsite backups
  - Cyber insurance
  - System scans to detect malware/attacks
  - Ability to isolate attack from affecting entire network

## Appendix:



#### **U.S. Public Finance | Other Sample Questions**

#### **Local Governments**

<u>Management and Governance:</u> What is management's approach to mitigating cyber security threats? (*Prepare*)

#### **States**

<u>Management and Governance / System Support:</u> How is the state aiding school districts and local governments in their efforts to mitigate cyber security threats? (*Prepare*)

#### Healthcare

<u>Management and Governance:</u> How does the organization overall think about risk – whether it be cyber, environmental, epidemics? How has that evolved over time? (*Prepare, Recover*)

#### **Utilities**

<u>Management and Governance:</u> How has the utility system incorporated cybersecurity into its risk management practices? How has that evolved over time? (*Prepare, Recover*)

#### **U.S. Public Finance | Cyber Risk Management**

#### Analytical Considerations – Issuer Preparedness



#### All USPF sectors

Issuers unable to properly identify cyber event risks could encounter significant delays in stopping or recovering from an attack, leading to service disruption, additional liabilities such as ransomware payouts or legal issues from data breaches, or other negative effects that could cause rating pressure. Certain sectors face additional heightened risk if they fail to thoroughly assess their risks and create an action plan to follow should an attack occur.



#### Electric cooperatives and municipal-owned public power utilities

Given the interconnected nature of the electric grid in the U.S. and its status as both critical infrastructure and highly vulnerable to a sovereign-backed cyberattack, we expect a robust understanding of digitized systems that could be attacked and the downstream impacts an attack could have on operations. This includes understanding if networks are vulnerable to shared risks with state or local governments, or if assets operate on separate networks.



#### Water and sewer utilities

Water and sewer utilities are at risk on two fronts: infiltration of operations and potential hijacking of customer account information or municipal financial records. With the precedent set for a cyberattack that can threaten the safety of water supply, we expect water utility operators to understand the risks presented by digitalization of services and operations, with sufficient protective measures in place to prevent life and safety risks following an attack. Failure to do so could lead to significant operational and legal costs, pressuring ratings. Furthermore, industry best practices generally specify that utility operations not be connected to the outside world to limit the risk of an intrusion.

#### U.S. Public Finance | Cyber Risk Management



#### Not-for-profit health care

With significant amounts of personally identifiable information and medical information subject to HIPAA privacy laws, we expect issuers to have a thorough understanding of retained data and a formidable cyber defense strategy. Failure to have a proper cyber defense strategy and data-management procedures in place is of particular concern for hospitals and health systems as this not only increases the risk of contingent liabilities stemming from data breaches but also jeopardizes the health and safety of patients.



#### **Higher education**

Due to the amount of personally identifiable information collected and retained through the admissions process, fundraising, and the conduct of sensitive research, cyber criminals often view higher education institutions as rich targets. In addition, the huge number of devices on college and university information technology networks creates an expectation that these issuers have processes in place to manage these assets in a secure manner as students and faculty join and leave the system frequently. We believe a well-defined threat matrix is crucial to the identification of information that could be at risk from a targeted attack.

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#### Has your organization experienced a material cybersecurity breach in the last five years?

Yes, and we disclosed the event in an offering statement or voluntary filing	
	0%
Yes, and we did not refer to it in an offering document or voluntary filing	
	0%
We experienced one or more cyber breaches, but they were not material	
	0%
No, not to my knowledge	
	0%

#### Discussion on Question 1

- Market Perspective
- Issuer Perspective
  - No obligation to speak absent contractual agreement or other arrangement; disclosure contexts
  - Public offering disclosure; option to delay offering
  - Voluntary disclosure; cybersecurity incident disclosure guidance; cautionary statements

#### Does your organization have established cybersecurity procedures and processes?

Yes, we have management-approved established procedures and processes	
	0%
No; we have established practices	
	0%
No; we have an ad hoc approach to cybersecurity	
	0%
No specific instructions relating to cybersecurity have been communicated to me	
	0%

#### Discussion on Question 2

#### Market Perspective

- Potential impact on rating
- How to positively impact rating

#### Issuer Perspective

- Additional protection from threat actors
- 2023 SEC cybersecurity guidance
- Third parties
- Insurance

#### **California Debt and Investment Advisory Commission 2025**



#### **GASB DIGITAL REPORTING UPDATE**

**Electronic Financial Reporting Update** 

April 2025

The views expressed in this presentation are those of Paulina Haro.

Official positions of the GASB are reached only after extensive due process and deliberations.







#### **Presentation Outline**

- Background and Financial Data Transparency Act (FDTA)
- GASB-GAAP Taxonomy
  - Line Item Approach
  - Basis of Accounting Design
     Options
  - Notes to Financial Statements
- Project Plan





#### **Background and Project Information**



#### **GASB** and Electronic Financial Reporting

### Early days

# First Taxonomy Attempts

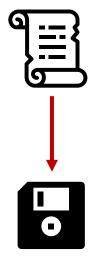
2018—

2022 Forward

Focused on digitizing paper

- XBRL pilots mid 2000s
- XBRL US
   Governmental
   Working Group (Staff
  - responded via Comment Letters)
  - Florida Legislation and XBRL Implementation
  - 3. FERC XBRL
  - 4. Data Act (grants)

- Assigned more staff to electronic reporting
- Ongoing user outreach
- Ongoing technology research
- 4. Monitoring FDTA











Staff has been engaged in Electronic Financial Reporting for over a decade.

#### Financial Data Transparency Act—FDTA



#### Joint Rule Making:

- Proposal: July 30, 2024
- Comment period ends: October 21, 2024
- Final rule expected: December 2024
- Three topics proposed (see next slide)

• FDTA is effective 2027; except for the reporting that may be required by the SEC and/or MSRB which does not have a defined effective date.



#### **Joint Rule Proposal**

Identifiers

- Legal Entity Identifier
- Securities Identifier (FIGI)
- Other Identifiers

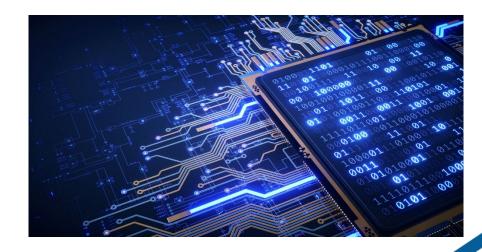
Technology

- Characteristics (4)
- List of examples

Accounting Taxonomies

- Joint Standard for taxonomies
- Agency Specific Taxonomies

- Examples Identified
  - 1. CSV
  - 2. XML
  - 3. JSON
  - 4. PDF/A
  - 5. HTML-XBRL (Inline XBRL)





#### **GASB-GAAP Taxonomy**



#### **GAAP Reporting Requirements**

ONE set of GAAP financial reporting requirements for ALL types of Governments

#### **Three Communication Methods**

Basic Financial Statements

Required Supplementary Information

Supplementary Information

Minimum Requirements for Each Communication Method

#### Basic financial statements include:

Government Wide Financial Statements

Fund Financial Statements

Notes to Financial Statements

#### Optionality in GAAP

For example: Statement of Net Position

- 1. Classified presentation
- 2. Unclassified presentation
- 3. Combined Resource Focus

#### **Common Practice**

#### For example, line items:

 Assets, Deferred outflows of resources, Liabilities, Deferred inflows of resources, Net Position





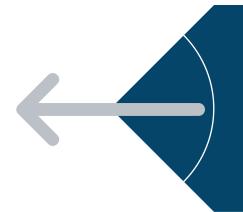
#### **Industry Concerns—Overview**



## Structure of Financial Statements

 Different statements for different types of governments



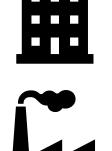


# Line items are different in each industry

Level of detail is different



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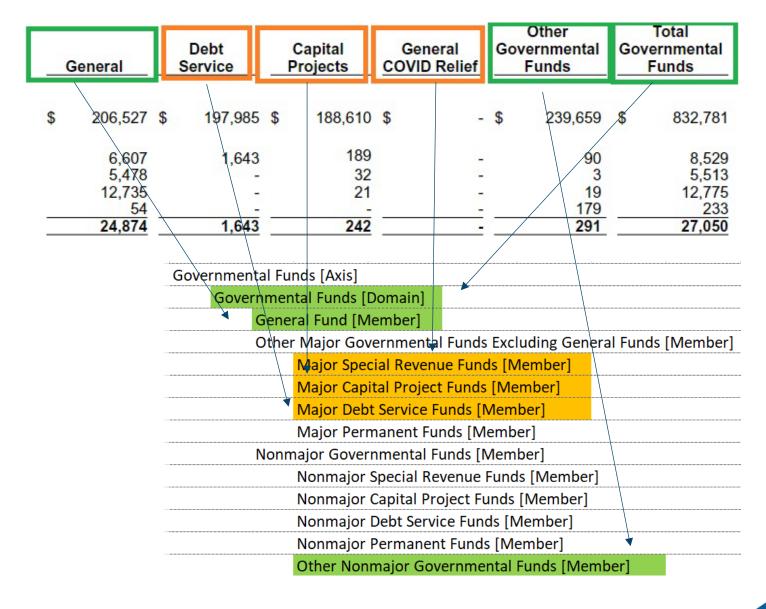


#### **Taxonomy Development Example—City of ABC**

#### Assets:

Cash, cash equivalents and investments Receivables, net:

Property taxes
Accounts
Lease receivable
Other
Total receivables





#### **GASB's Tentative Approach**

Revenues **Charges For Service** Type: Monetary For Colleges & Universities Period: Duration Tuition and Fees Balance: Credit For Airport (Port Authority) Landing Fees For Fire District **Emergency Medical Service Fees** For Water Utility Water fees Re-use Water Fees

**Codification Reference** 

GASB Codification (2023-2024) Section 1800.132





#### Notes to Financial Statements (Unstructured Data)

#### 3. Securities Lending

State Statutes permit the State Treasurer to lend its securities, through the use of agents, to broker-dealers and other entities with simultaneous agreement to return the collateral for the same securities in the future. The State's agents lend securities, of the type on loan at year-end, for collateral in the form of cash or other securities at 100% of value for US Treasury Strips and US Treasury Bills, and 102% of value for other securities. The State, through its agents, measures the fair value of the securities loaned against the fair value of the collateral on a daily basis. Additional collateral is obtained as necessary to ensure such transactions are adequately collateralized. Securities lent for securities collateral are classified according to the category of the collateral. At year-end, the State has no credit risk exposure to borrowers because the amounts the State owes the borrowers exceed the amounts the borrowers owe the State. The contract with the State's agent requires the agent to indemnify the State if the borrowers fail to return the securities (and if the collateral is inadequate to replace the securities lent) or fail to pay the State for income distributions by the securities' issuers while the securities are on loan.

The following represents the balances relating to the securities lending transactions at the financial statement date:

Without WYO-STAR:

Report of Securities Lending - Without WYO-STAR June 30, 2023			
Securities Lent	Fair Value of Underlying Securities without Accrued Interest	Cash Collateral Received/Securities Collateral Value	
Lent for Cash Collateral U.S. Governments \$ U.S. Corporate Securities U.S. Equities	3,236,874,620 345,185,368 551,739,838	\$ 3,315,933,782 356,741,200 563,743,345	
Non U.S. Governments (USD) Non U.S. Equities Total Lent for Cash Collateral	3,554,172 58,738,273 4,196,092,271	3,655,633 60,710,138 4,300,784,098	
Lent for Securities Collateral U.S. Governments U.S. Corporate Securities U.S. Equities Non U.S. Equities	1,389,586,164 5,201,617 110,828,489 25,111,629	1,424,574,498 5,416,144 114,055,005 26,396,303	
Total Lent for Bulk (Securities) Lending  Total Securities Lending	1,530,727,900 5,726,820,170	1,570,441,951 \$ 5,871,226,049	

#### **Details for Unstructured Data**

- Implementation Y1: Large block text
- Implementation Y2: Discrete block text
- Implementation Y3: Detailed items

ALL Unstructured Data in GASB-GAAP (notes to financials, MD&A, and notes to RSI) are modeled in this tiered approach

#### **Project Update**

Due Process document



# GASB-GAAP Taxonomy Voluntary Digital Financial Reporting Project



 Basic Financial Statements

Required
 Supplementary
 Information



Phase II

 Supplementary Information

#### **Basic Financial Statements:**

- Government-Wide Financial Statements
- Fund Financial Statements
- Notes to Financial Statements

#### Required Supplementary Information:

- Pensions and OPEB Schedules
- Infrastructure Schedule
- Budgetary Schedules



# GASB-GAAP Taxonomy Voluntary Digital Financial Reporting Project Phase I

Discussion Memorandum

Additional Due Process Documents (multiple)

Final Taxonomy Phase I

#### Content

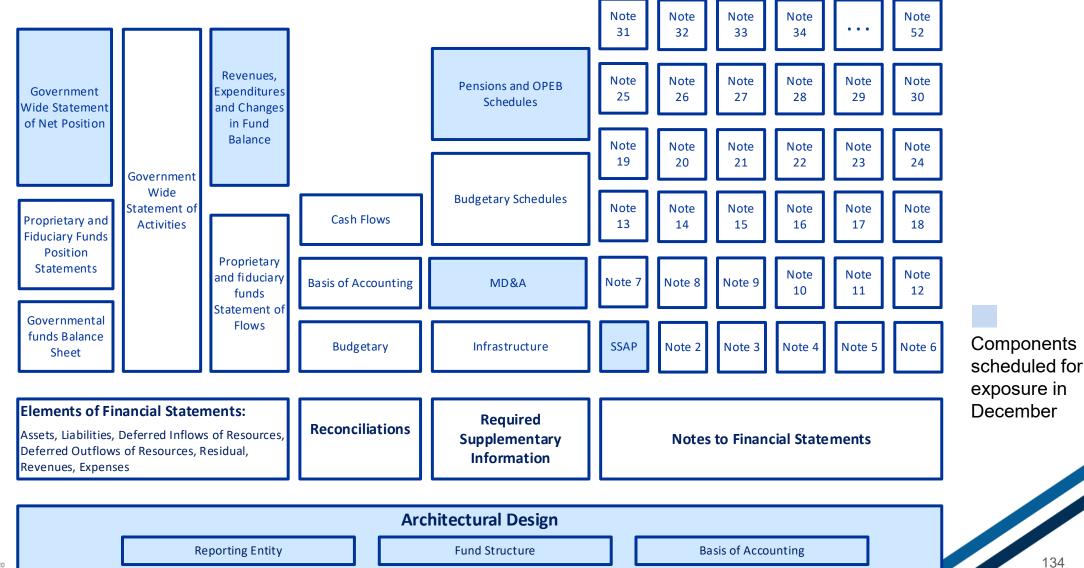
- Government-Wide Statement of Net Position (Unclassified)
- Revenues, Expenditures, and Changes in Fund Balance
- Pension and OPEB RSI Schedules
- Management's Discussion and Analysis

#### Purpose—Solicit Feedback

- The architectural design choices made in the design of the GASB-GAAP Taxonomy
- Does NOT include all components of the taxonomy
- Is NOT a final product, its an early discussion document



#### **GASB GAAP Taxonomy—Phase I Components**

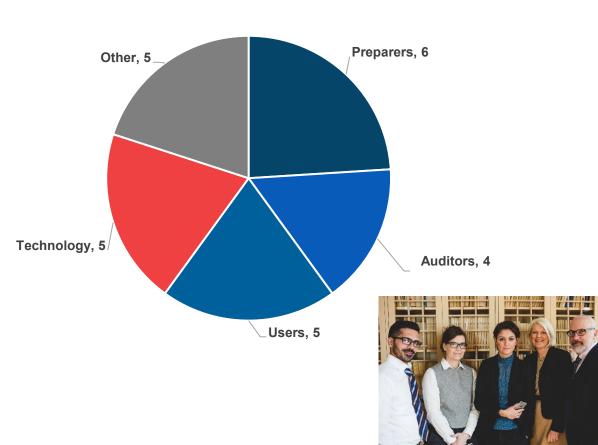


GSB GOVERNMENTAL ACCOUNTING STANDARDS ROAD

#### **Taxonomy Consultative Group (TCG)**

- 1. Charter and participants are ready
  - We expect 25 members
- 2. Meetings will begin after March Board meeting
  - Virtual meetings
  - Subgroup strategy
- 3. Periodic feedback will be solicited
  - Technology
  - Common practice
- 4. Board meeting with TCG: Q4 2025

#### **TCG Composition**





### QUESTIONS?



PAULINA HARO
Senior Project Advisor
Governmental
Accounting Standards
Board



DONALD HESTER
Cybersecurity Advisor
Cybersecurity and
Infrastructure
Security Agency



DIANE QUAN
Partner
Hawkins Delafield
& Wood LLP



KRYSTAL TENA
Associate Director
S&P Global Ratings

# 15-MINUTE BREAK

#### SESSION FOUR

Climate Change and Natural Hazard Risk Assessment and Disclosures



Partner
Nixon Peabody LLP



RENEE DOUGHERTY, CFA
Director, Municipal
Research
Charles Schwab Asset
Management



Senior Fellow Ceres, Inc.



JAN WHITTINGTON, PhD

Professor
University of
Washington, Seattle



#### SESSION FOUR

Climate Change and Natural Hazard Risk Assessment and Disclosures

**DANIEL DEATON**Partner

Nixon Peabody LLP





#### SESSION FOUR

Climate Change and Natural Hazard Risk Assessment and Disclosures

#### JAN WHITTINGTON

Professor, U of Washington CEO, Climate Solutions Intl.



# Issuer Capacity to Assess Climate Risk



CA Govts have a mandate, talent, and capital budgets / financial plans



There are tools and data with forecasts from global climate models



Climate risk info can be localized (downscaled) to visualize risk over time



Historical studies have made forecasts of material loss and damage possible



Issuers can adapt capital budgets / financial plans to disclose climate risk

# California law (SB 379) Mandated Assessments of Vulnerability

- Required all cities and counties to
  - Address climate adaptation and resiliency strategies
  - Applicable to the city or county
  - In the 'safety elements' of their general plans or FEMAmandated local hazard mitigation plans

Learn more at ResilientCA.org

- Key question
  - Is this used in capital budgets / financial plans?

# Local Gov't. Approaches to Assessing Climate Risk Vary

- CA publicly available tool: CalAdapt
  - Helpful access to data from global climate models
  - Needs more work to localize risk to assets
- Some Cities and Counties have localized risk
  - Still challenged to integrate with budget & finance

#### CalAdapt is a Starting Point for Climate Risk Assessments

cal-adapt Tools Data Help Blog Events About



## Explore and analyze climate data from California's Climate Change Assessments

Cal-Adapt provides the public, researchers, government agencies and industry stakeholders with essential data & tools for climate adaptation planning, building resiliency, and fostering community engagement.

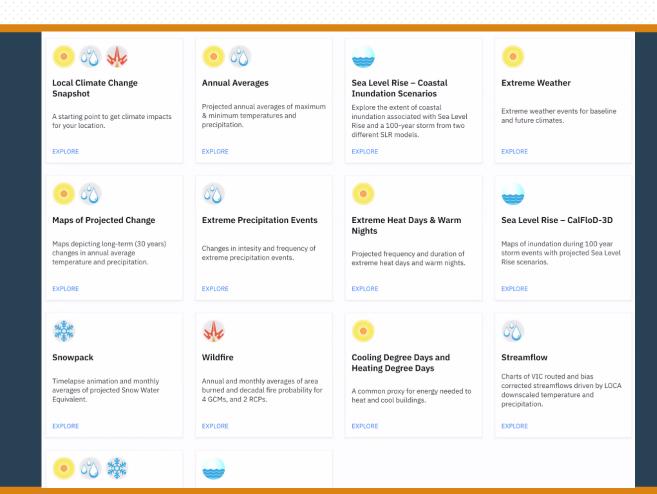


#### Cal-Adapt is evolving!

Learn about the Cal-Adapt enterprise and our mission to support California's climate change initiatives and preview our future plans.

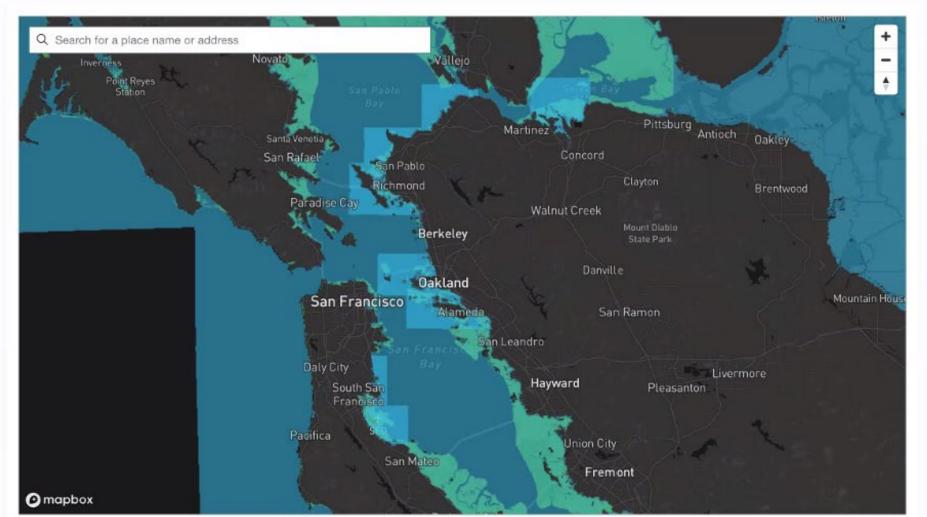
**READ MORE** 

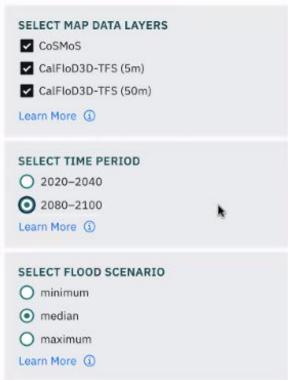
## CalAdapt is a Toolkit for Accessing Global Climate Models



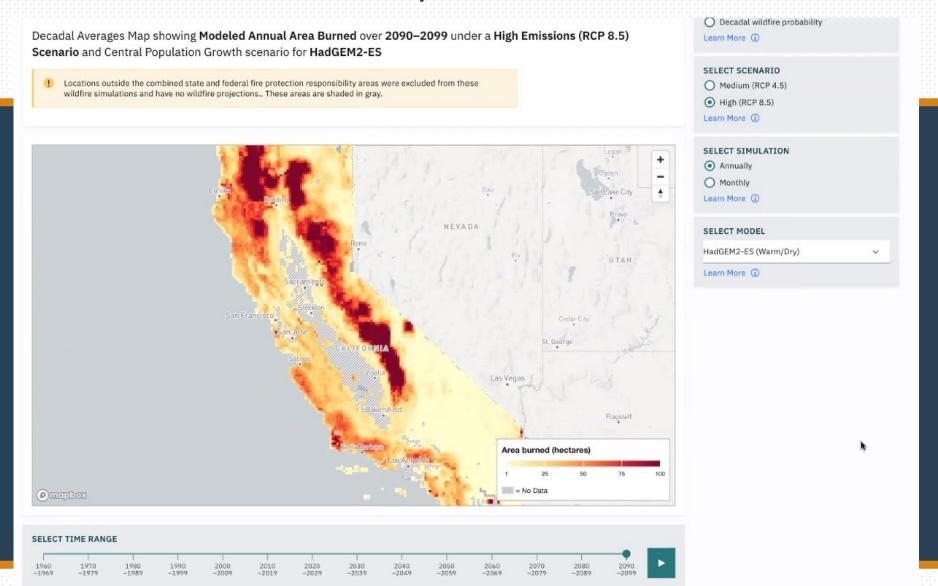
#### CalAdapt: Sea Level Rise

Showing available data for CoSMoS and CalFloD3D-TFS (5m) and CalFloD3D-TFS (50m) under a median flood scenario for the 2080–2100 period.

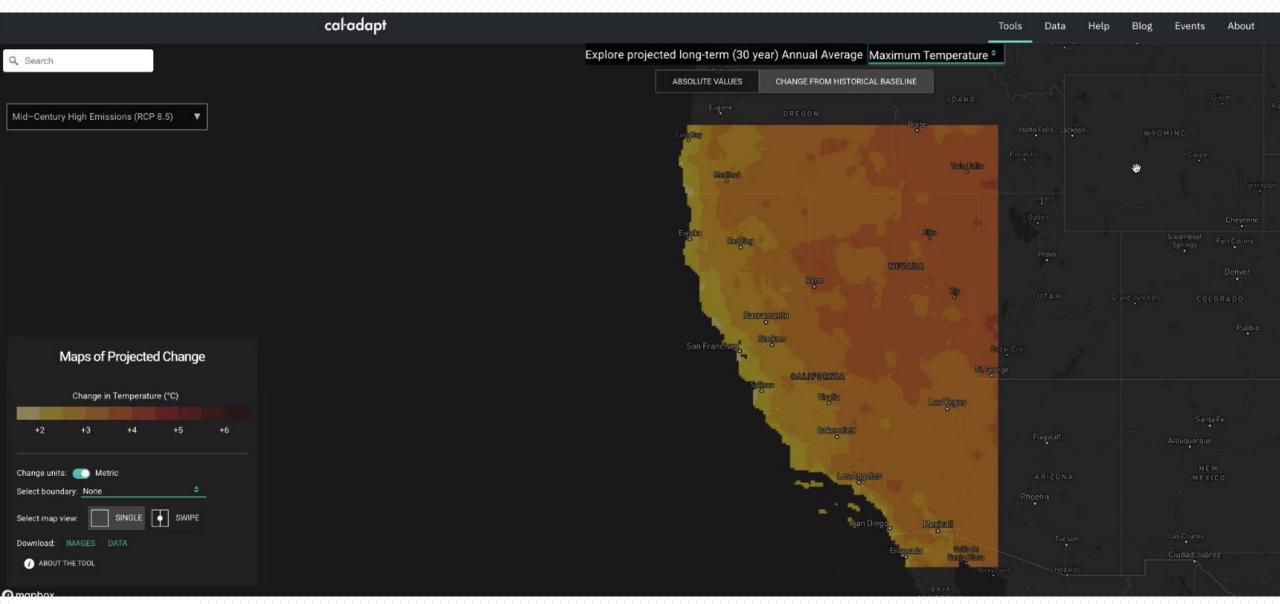




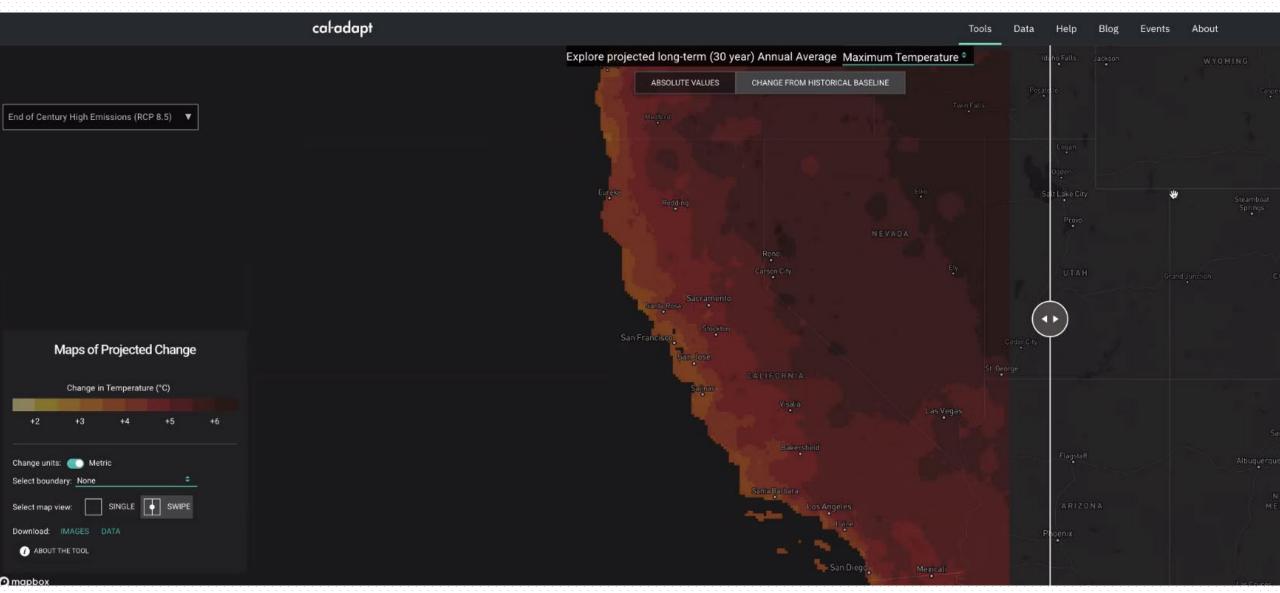
#### CalAdapt: Wildfire



#### CalAdapt: Max Temperature Rise (Mid-Century)



#### CalAdapt: Max Temperature Rise (End of Century)



#### CalAdapt: Extreme Precipitation as Stream Flow

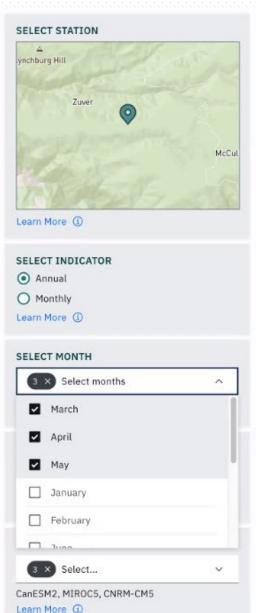
Change Location @

#### American River at Fair Oaks, California

Projected changes in Annual Total Unimpaired Flows by water year for March, April and May under a High Emissions (RCP 8.5) Scenario.



Unimpaired Historical Streamflows (California Department of Water Resources).



# Climate Risks Need to be Localized and Monetized

- Localize
  - CalAdapt
    - Wildfire
    - Sea Level Rise (but will need tides + precipitation)
  - Get to parcel level projections, 2100
    - Urban Heat Island Effect (Temperature)
    - Flooding (Precipitation)
- Monetize
  - Is this used in capital budgets / financial plans?

#### Example of Localized Climate Risk: City of San Luis Obispo



LIVING VISITING GOVERNMENT SERVICES

BUSINESS

I WANT TO...

Q



- Key Information & Reporting
- + Cannabis
- Planning & Zoning
  - + Zoning

**Zoning Map** 

**Specific & Area Plans** 

**Planning Permits** 

Tiny Home on Wheels

**General Plan** 

**Housing Element** 

**Noise Element** 

**Safety Element** 

**Conservation and Open Space Element** 



Government » Department Directory » Community Development » Planning & Zoning » General Plan »

#### CLIMATE ADAPTATION AND SAFETY **ELEMENT**

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The Safety Element of the General Plan was last updated on January 17, 2023, in accordance with state law (Senate Bill 379 Government Code Section 65302) that requires integration of comprehensive climate adaptation and resilience strategies, the City applied and received a Sustainable Communities Grant from the California Department of Transportation.

Under state law, a safety element promotes protection for the community from unreasonable risks related to slope instability. seismic activity, subsidence, liquefaction, known geologic hazards, flooding, wildland and urban fires, tsunami, seiche,

#### **FAO Box**

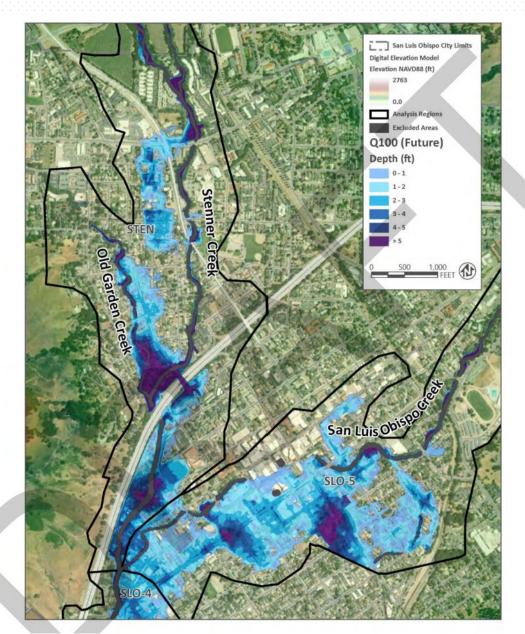
Will a traffic impact study be required and if so what is the process?

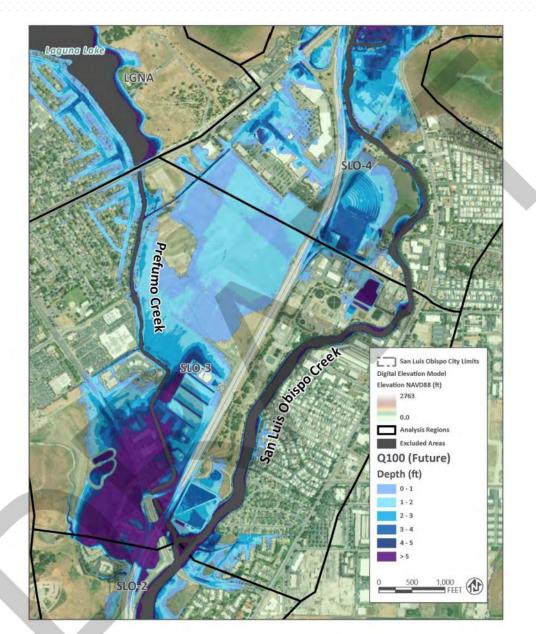
How do I apply for a permit?

What type of approval

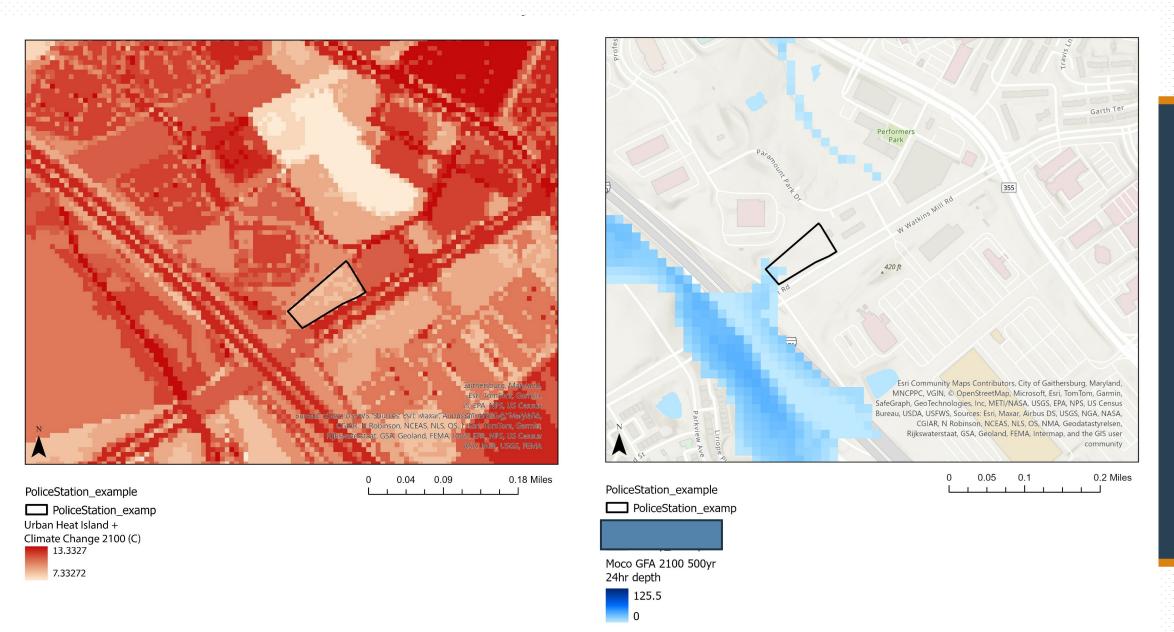


#### Example of Localized Flood Risk: City of San Luis Obispo





#### Example of Localization (Climate Solutions Intl.)



## Why Disclose?

- Don't let fear of public reaction prevent disclosure
  - Data is already out there! (Riskfactor.com)
  - It's designed for residential (30-year forecast)
  - It's not the right data for Cities/Counties
- Cities and Counties need to show they know
  - With better data for their purposes
  - Incorporated into their planning and budgeting process

#### Example from Riskfactor.com for Residential Risk

**Flood Factor** 

Fire Factor

Air Factor

**Heat Factor** 

#### Madonna Flood Map



**Community Impact from Flooding in Madonna** 

Find the Flood Risk for Any Property

## About Monetizing Climate Risk

- The Cost of Doing Nothing (it's a Forecast)
  - A business-as-usual baseline
  - It is a forecast of loss and damage
  - Adaptation brings forecasts of avoided loss and damage
- The Key is to Integrate these Measures
  - in Capital Plans and Budgets
  - In Financial plans

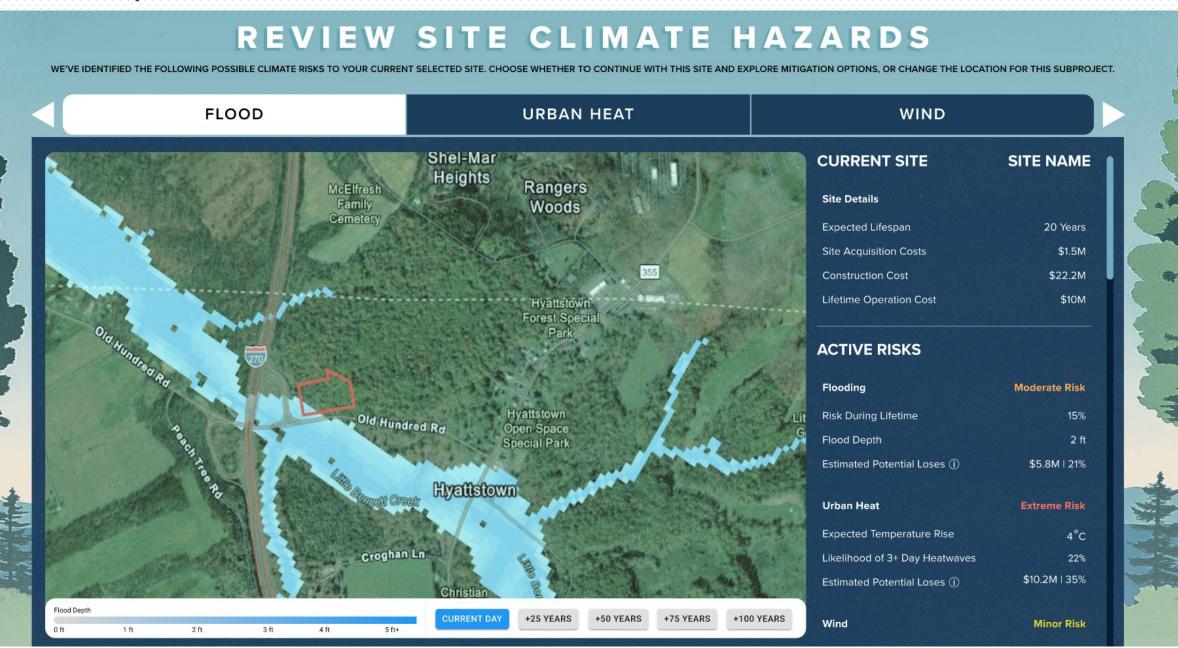
## **Example: Capital Budgets**

- Climate Solutions International's Approach
  - Integrate with existing capital budgeting process



climatesolutionsintl.com

#### Example of Monetization: Climate Solutions Intl. Software



#### Example of Monetization: Climate Solutions Intl. Software



#### Example of Monetization: Climate Solutions Intl. Software



### **THANK YOU!**

# JAN WHITTINGTON

Professor, U of Washington CEO, Climate Solutions Intl.



### SESSION FOUR

Climate Change and Natural Hazard Risk Assessment and Disclosures

BRIAN MCCARTAN
Senior Fellow
Ceres, Inc.





## Important Disclosures

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## Benefits of Strong Natural Hazard Risk Disclosure



Reveals good governance if you have a climate risk strategy



Provides investor confidence and trust in management



Allows the Issuer to shape the "story", not the headlines



May reduce market price volatility after an adverse event



May improve investor demand if debt is issued to finance recovery efforts

# Good Disclosure Includes Discussion of:

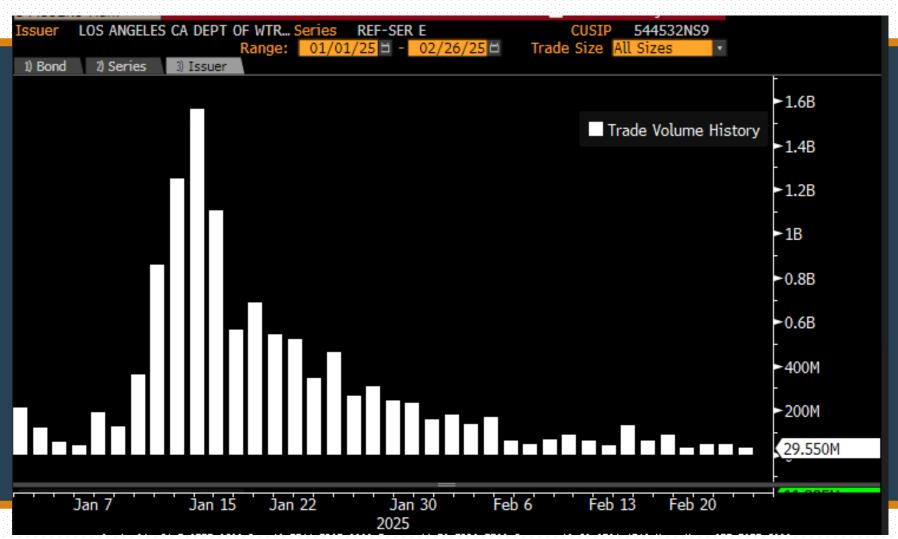
- Hazardous risk exposure level of severity
- Risk mitigation strategy and actions taken
- State mandates
- Insurance coverage
- Capital mitigation plans, projected cost, and financing plan

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# What Does An Investor Look at When a Disaster Hits?

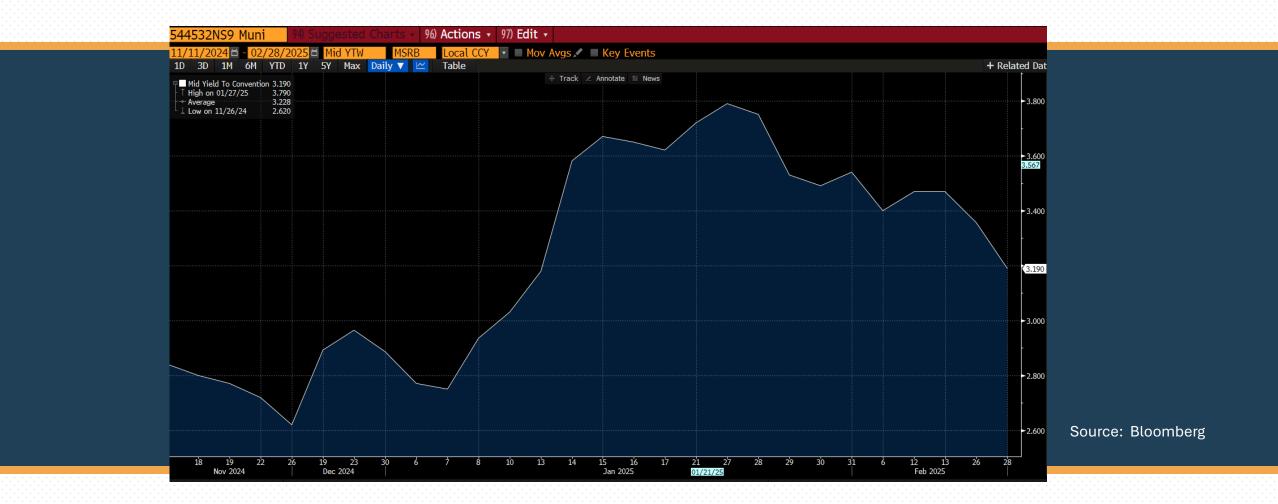
- Size of area impacted relative to service area or tax base
- Disaster response efforts
- Eligibility for state and federal aid
- Impact to revenues and expenses
- Issuer's financial flexibility
  - Liquidity and financial reserves
  - Ability to raise taxes or rates
- Estimate of financial liability
- Market and rating agencies' response

## Los Angeles Department of Water & Power, Power System: Impact on Trade Volume from the January 2025 Palisades Fire



Source: Bloomberg

## Los Angeles Department of Water & Power, Power Bonds: Impact on Yields from the January 2025 Palisades Fire



CUSIP 544532NS9: Issued at a 2.84% yield in November 2024, 7/1/2034 maturity, \$59.7 million outstanding

## What Drove Market Volatility?

- Fast-moving, uncontrollable nature of the wildfires
- Headlines mass evacuations, images of Los Angeles on fire, loss estimates
- Inverse condemnation concerns combined with lack of information on LADWP liability for the Palisades Fire
- Selling by investors with low risk tolerance
- Rating agency negative rating actions
- Lack of investor outreach

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### What Calmed the Markets?

- Moody's January 17 report stating LADWP's power equipment did not appear to be the ignition source for the Palisades Fire
- Moody's commentary that LADWP's Water System operated as designed
- Buying by investors with higher risk tolerance
- Containment of the fires, reduced headline news
- LADWP reports of water and power restored to the burned areas, rapid
   Phase I (hazardous waste) clean up

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### QUESTIONS?



**DANIEL DEATON**Partner

Nixon Peabody LLP



RENEE DOUGHERTY, CFA
Director, Municipal
Research
Charles Schwab Asset
Management



Senior Fellow Ceres, Inc.



JAN WHITTINGTON, PhD

Professor
University of
Washington, Seattle



#### THANK YOU

Please complete the seminar evaluation and leave it on your table.

#### **UPCOMING EVENTS**

Land-secured Financing: Fundamentals and Evolving Practices

> September 10–11, 2025 Pleasanton, CA

For more information, visit: treasurer.ca.gov/CDIAC/seminars