Structured Data and the FDTA: What Does it Mean for Municipal Advisors and Their Clients



NATIONAL ASSOCIATION OF MUNICIPAL ADVISORS

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Speakers

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Topics

- What is FDTA
- The Basics of Structured Data
- Overview of XBRL
- Going Forward
- What MAs Can Do
- Questions



What is the FDTA?

Financial Data Transparency Act

- Signed into law December 2022
- Requires use of data standards by member agencies of the Financial Stability Oversight Council (FSOC)
- Requires data transparency relating to municipal securities
 - SEC responsible for developing rules specific to municipal market
 - Many corporate filings to EDGAR already have this mandate
- Defines Data Standards
- Establishes rulemaking responsibilities and timeline



Financial Data Transparency Act (FDTA)

Data standards are defined as:

- Including common identifiers
- Open and nonproprietary
- Able to render data searchable and machine-readable
- Financial reporting requirements documented in machinereadable taxonomies
- Incorporate standards developed and maintained by voluntary consensus standards bodies
- Consistent with applicable accounting and reporting principles



Timing:

- 18 months after enactment, heads of covered agencies shall jointly issue proposed rules for public comment to establish data standards; joint rulemaking process to be led by Treasury department
- 2 years after enactment, jointly promulgate final rules for data standards;
- Data standards established shall take effect not later than 2 years after which final rules are promulgated



Basics of Structured Data

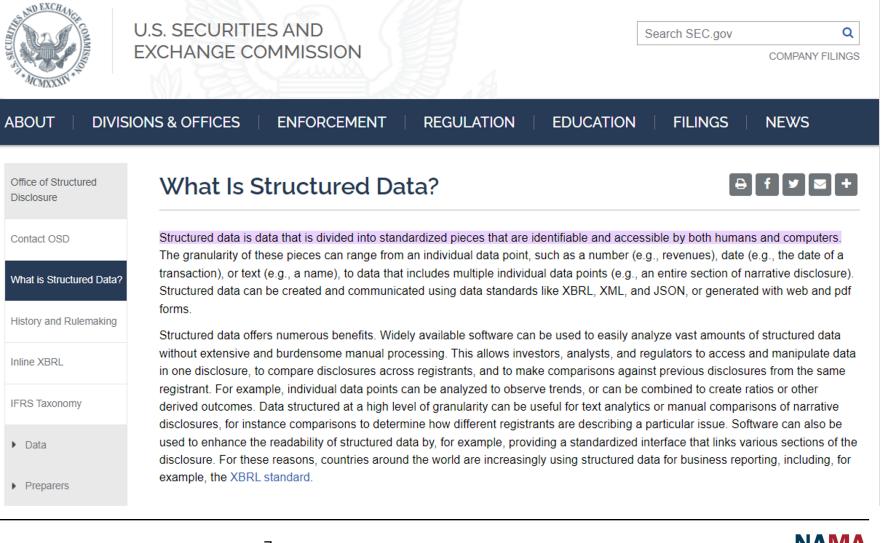
- What is Structured Data?
- Why is Structured Data Important?
- Where is Structured Data Currently Used?
- What is a Data Standard? How are Data Standards Used to Generate Structured Data?
- Common data standards in securities markets: Legal Entity Identifiers (LEI), eXtensible Business Reporting Language (XBRL), CUSIP
- What is a Taxonomy?



What is Structured Data?

"Structured data is data that is divided into standardized pieces that are identifiable and accessible by both humans and computers"

Securities and Exchange Commission





What is Unstructured Data?

Disclosure in the municipal securities market today is largely unstructured data. Unstructured data is easy to create and collect, but can't be easily organized, classified, queried, or analyzed, and may require a lot of manual intervention to interpret.

Unstructured data:

- Text files
- Photos
- Videos
- Audio files
- Emails
- Social media posts
- PDFs







What's the Problem With Unstructured Data?

Efficient markets rely on high quality, inexpensive, rapidly & widely accessible data

- Ratio analysis, peer comparison and aggregation difficult & time-consuming
 - > Which local governments have the highest unfunded OPEB as a % of revenue?
 - > Which cities have the greatest reliance on sales tax revenue?
 - Which school districts have the lowest cash balances?
 - > Which hospitals have the highest percentage of patient revenue?
 - Which mass transit systems rely most on farebox revenue?
- Expensive manual data acquisition and entry; duplicated across many firms
- Data quality control issuers and users prone to errors



Why Do Regulators Want Structured Data?

"XBRL has made it easier and less costly to extract, filter, compare, and analyze the information in SEC filings. XBRL facilitates the comparison of a company's information across time periods, against other companies, and between data in SEC filings and other agency filings. It allows for faster and more sophisticated analysis by regulators, investors, and academics. This increased usability has benefits for investors of all types."

Caroline Crenshaw, SEC Commissioner, <u>The</u> <u>Lessons of Structured Data</u>" Data Standards in Use Today SEC: 6,000+ public companies and investment management companies report in XBRL FDIC: 5,000 banks FERC: 600+ public utilities 200+ XBRL regulatory and oversight programs worldwide 80 global oversight agencies



Why Do Investors Want Structured Data?

"Extracting data from an HTML document takes at least 20 minutes, from a good quality PDF, takes around 30 minutes, from an image around 50 minutes. Data pulled from an XBRL file though, can be extracted in 1 to 2 seconds... let's us focus on better analytics rather than scraping data from documents."

Adrien Cloutier, Global Director of Equity Data, Morningstar

"We can make data available to investors much faster if it's in XBRL format, because we can eliminate manual data entry and a lot of the checking and manual review needed with nonstructured data."

"... [with XBRL] there's no difference in the availability of data between large and small companies."

Pranav Ghai, CEO, Calcbench:

"...the use of XBRL... has benefited both Refinitiv clients and the investment communities we serve by enabling us to make significant strides in how quickly we can deliver our fundamental data to the markets. In many instances that time has reduced from days to minutes."

Diana Serbu, Head of Company Data Strategy and Management, Refinitiv, part of LSEG (formerly Thomson Reuters)



What are data standards?

- **Standards** improve the efficiency of an existing process
- **Data standards** improve the creation, reporting and use of data through automation
- A **taxonomy** is a digital dictionary of clearly defined terms used to report information
 - Common language with clear, consistent definitions for all stakeholders (preparers, consumers)
 - Leverages accounting/reporting standards already used such as FASB, GASB, IFRS
 - Includes relationships between reported facts (calculations, financial table structure, presentation)
 - Mechanism to make data machine-readable (automation)







What are data standards?

Goals: reduced cost of reporting, data collection and analysis, increased data accuracy and quality, increased timeliness





What are Data Standards?

- Data standards *are not* accounting standards (e.g., GASB, FASB, IFRS)
- Data standards are *not* products or formats (like CSV, JSON, XML, HTML)
- Data standards can be created to adapt to all different types of governments, e.g., general purpose or special district, allowing them to report as they do today
- Open, nonproprietary data standards allow *many* options for report preparation because any accounting system or reporting software can be adapted to open (free) data standards



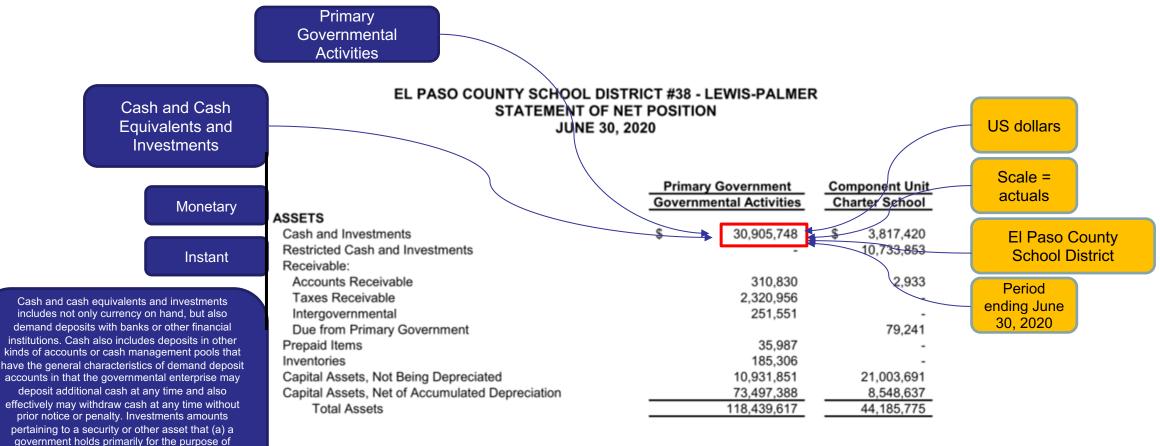
How do data standards work?

EL PASO COUNTY SCHOOL DISTRICT #38 - LEWIS-PALMER STATEMENT OF NET POSITION JUNE 30, 2020

	 ary Government pmental Activities	Component Ur Charter Schoo	
ASSETS			
Cash and Investments	\$ 30,905,748	\$	3,817,420
Restricted Cash and Investments			10,733,853
Receivable:			
Accounts Receivable	310,830		2,933
Taxes Receivable	2,320,956		-
Intergovernmental	251,551		-
Due from Primary Government			79,241
Prepaid Items	35,987		-
Inventories	185,306		-
Capital Assets, Not Being Depreciated	10,931,851		21,003,691
Capital Assets, Net of Accumulated Depreciation	 73,497,388		8,548,637
Total Assets	118,439,617		44,185,775

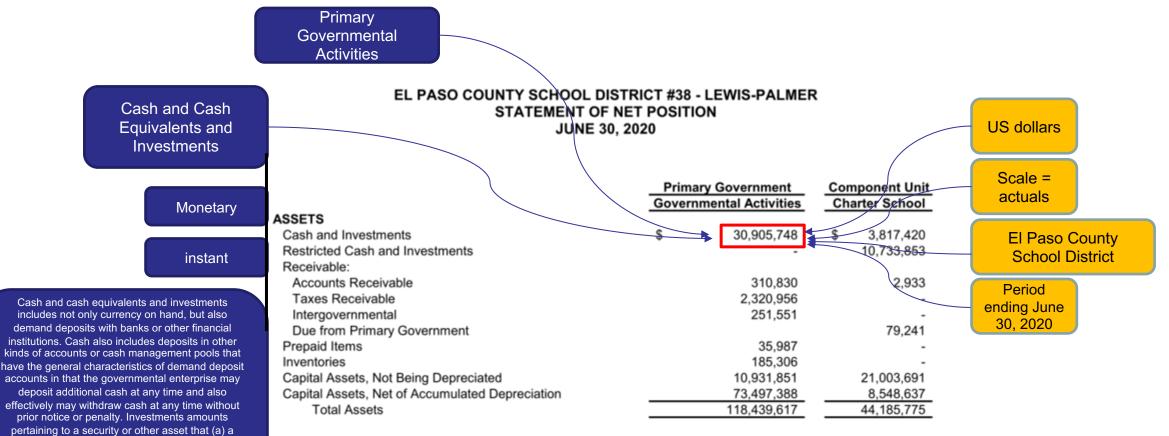


Embedding Critical Information Into Reported Facts ("Metadata")



income or profit and (b) has a present service capacity based solely on its ability to generate cash or to be sold to generate cash.

Embedding Metadata Doesn't Change the Reported Fact, or the Accounting Standard Used to Determine the Fact



government holds primarily for the purpose of income or profit and (b) has a present service capacity based solely on its ability to generate cash or to be sold to generate cash.

XBRL (eXtensible Business Reporting Language)

- Open, nonproprietary
- XBRL International global nonprofit standards body, responsible for maintaining and expanding upon the specification

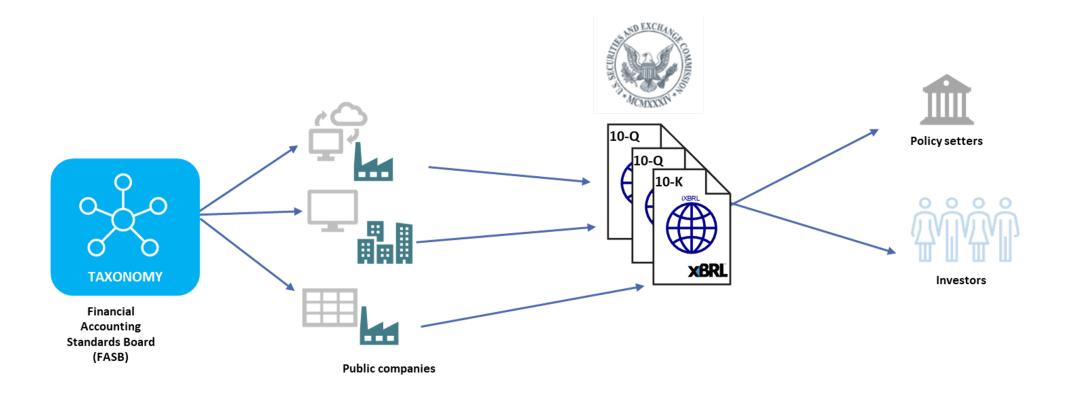
Multiple country jurisdictions

- XBRL US national nonprofit standards setter, responsible for development work and adoption efforts in the United States
- XBRL is not:
 - A technical format like XML or JSON
 - > A product
 - An accounting standard





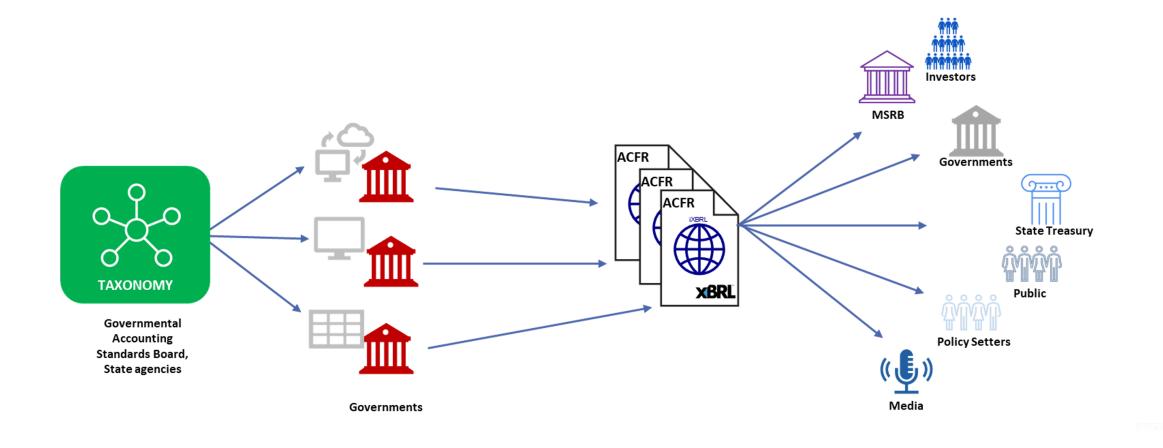
How public companies report to the SEC today



Interaction of



How governments could report under FDTA





FDTA Does <u>Not</u> Specify Specific Data Standards

- Defines <u>features</u> of a data standard; specifies <u>a</u> legal entity identifier
- XBRL meets the specifications of the law (non-proprietary, able to render data machine-readable, uses taxonomies developed by consensus bodies, etc.)
- XBRL's wide use globally (including by SEC) is why FDTA is sometimes conflated with XBRL, but they are <u>not</u> the same
- XBRL US Standard Government Reporting working group has built a taxonomy for GASB ACFRs to demonstrate how data standards could be applied to government financial reporting



How Can Data Standards Be Applied to ACFRs

Live demo





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(Subject) Filing describes the company named but was made by another entity.

(Filed by) Filing was made by the company named but describes a subject company.

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		Black Bird Biotech, Inc. (0001409999) (Filer)			
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5. PREPAID EXPENSES

For the years ended December 31, 2022 and 2021, prepaid expenses was comprised of:

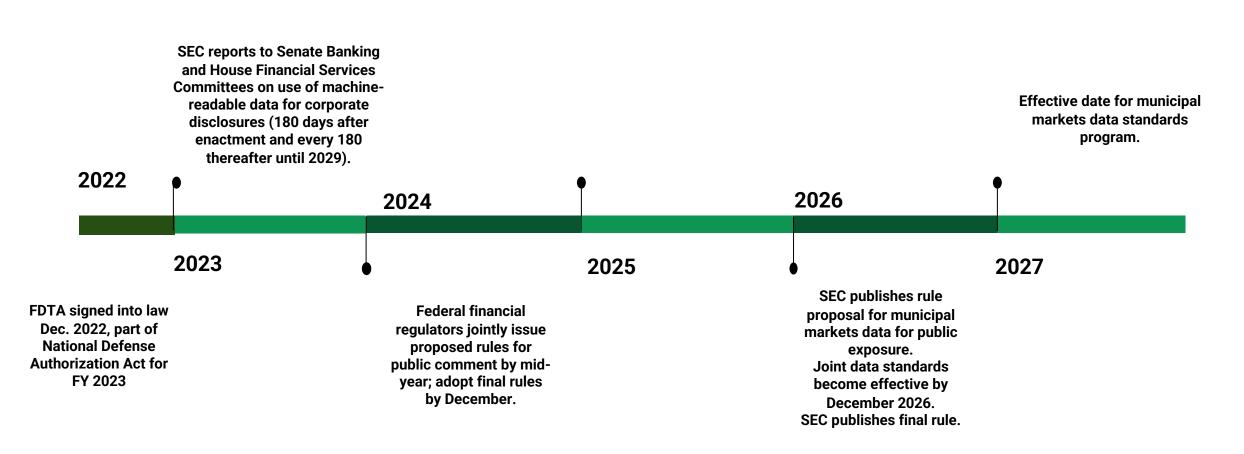
	De	cember 31,	December 31			
		2022		2021		
Prepaid expenses	\$	24,896	\$	27,500		
Prepaid insurance		-		60,791		
	\$	24,896	\$	88,291		

During 2021, the Company entered into a relationship with an unrelated entity to acquire common stock under a subscription agreement. The Company would advise it on blockchain technology, permitting it to expand its marketing business, and in return the entity would provide marketing services. On December 31, 2022, a total of \$57,500 payments were made on deposit for the purchase of these shares, the relationship was evaluated as unbeneficial to the Company, it decided to expense these payments and terminate the arrangement. There was no obligation or penalty should either party choose to terminate the relationship. During the year ended December 31, 2022, the entity provided marketing services. As a result, the deposit of \$57,500 was expensed on December 31, 2022, as a marketing expense.

National Association of Municipal Advisors



What happens next?



Discussion: Going Forward

Current Unknowns

- Focus of Treasury/multi-department/Agency work
- Focus of SEC work
- GASB's role
- What information will be required to be machine-readable?
- Number of taxonomies needed for munis and who will develop them
- Costs
- Timing of implementation/phase in
- How will financials/other required disclosures be converted into XBRL (or other data standard)?
- How will EMMA submissions be made?



Discussion: Going Forward

What Can MAs Do?

- Be aware of and learn more about structured data, XBRL and standards development
- Be aware of pending regulations coming from Federal Agencies
- Be aware of issuer group efforts
- Be aware of NAMA webinars and information as process moves forward
- Participate in the standards development process and offer input to SEC, MSRB

