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## BACKGROUND

The last decade has witnessed a series of local government fiscal crises. Most prominent among these were Chapter 9 municipal bankruptcy filings by Detroit MI, Harrisburg PA and Jefferson County AL, as well as the California cities of Stockton, San Bernardino and Vallejo. More recently, the Commonwealth of Puerto Rico stopped servicing its municipal bond debt and leveraged a new territorial bankruptcy regime created by Congress.

While the vast majority of US local governments have avoided default or bankruptcy, fiscal crises arising from the Great Recession served as a reminder of more widespread local government financial failures during the Great Depression when over 5000 entities defaulted nationwide.

Depression-era defaults hit North Carolina quite hard, but largely spared Virginia. One theory is that Virginia municipal financial health benefited from a state law that effectively guaranteed certain local government bonds. Chapter 148 of the Laws of 1932 gives the governor authority to intercept county aid payments and redirect them to the holders of defaulted bonds and notes (this law is described in an [old bar association review article](#)).

More recently, Virginia has witnessed two significant fiscal distress episodes. In 2010, the small city of Buena Vista began defaulting on [Golf Course Revenue Bonds](#) issued in 2005. Investors have been unaffected because the bonds were insured by ACA Financial Guaranty Corporation, which has been making debt payments on behalf of the city.

In 2016, Petersburg [narrowly avoided](#) a default on Revenue Anticipation Notes (RANs), which are short term bond obligations. Acting City Manager Dironna Moore asked state finance officials to review the city's books and make recommendations. The Commonwealth's Technical Assistance Team [helped](#) city staff prioritize other payments to make the RAN payment and offered [recommendations](#) to achieve long term fiscal stability.

To anticipate and possibly avoid local government financial distress episodes, the state legislature [empowered](#) the State's Auditor of Public Accounts (APA) to develop a local government fiscal monitoring system. APA subsequently developed a Fiscal Assessment Model (FAM) based on ten financial ratios, publishing its [findings](#) annually. APA also follows up with governments it finds to be at risk to conduct deeper assessments.

In this study, we employ a fiscal scoring system developed from data in multiple states to determine which Virginia municipalities may be at risk. While we use fewer metrics than APA, we are able to provide scores on a familiar 0-100 scale with a somewhat shorter turnaround time. This allows the reader to better understand how well these localities are doing compared to all 169 jurisdictions reviewed and analyzed.

## METHODOLOGY

We scored Virginia local governments on a 0-100 scale based on five metrics. These metrics were selected and weighted based on their ability to predict whether a city or county will face a financial distress event – such as a municipal bond default or bankruptcy – in the near future. Empirical support

for an earlier version of this scoring system was provided in a [study](#) published by UC Berkeley’s Haas Institute. We have updated the scoring system to be more consistent with new Government Accounting Standards Board pronouncements and to reflect subsequent research published by the Mercatus Center at George Mason University.

The metrics we used are as follows:

The first three factors, accounting for 80 percent of the total score, are financial ratios calculated from audited financial statements posted by each government. [Local employment data](#) was obtained from the Bureau of Labor Statistics. [Property value data](#) was obtained from Zillow Research. In some cases, BLS and Zillow do not have data for a given city, town or county. In these instances, we used data from a neighboring jurisdiction as a proxy.

MEASURE	Points	Notes
The ratio of a city’s, town’s or county’s unrestricted general fund balance to its expenditures	30	<a href="#">Unrestricted General Fund Balance</a> is calculated as: Unassigned General Fund Balance + Assigned General Fund Balance + Committed General Fund Balance
The ratio of its long-term obligations to total government-wide revenues	30	
The ratio of government-wide unrestricted net position to total government-wide expenses	20	<a href="#">Unrestricted Net Position</a> refers to the government’s total assets excluding capital and restricted assets, net of liabilities
Change in local employment	10	
Change in property values	10	

Table 1: Methodology

Our research suggests that local governments suffer financial crises due to some combination of declining revenue, unsustainable long-term obligations and insufficient general fund reserves. The local employment and property value metrics are intended to capture future revenue trends.

## FINANCIAL DATA COLLECTION

As noted in the methodology section, scores are primarily driven by data obtained from audited financial statements produced by local governments. Public sector entities that expend more than \$750,000 in federal funds annually and/or issue municipal bonds are required to produce audited financial statements, often called Comprehensive Annual Financial Reports (CAFRs).

Many local governments publish CAFRs on their web sites. These documents can also be obtained from the Municipal Securities Rulemaking Board's [EMMA](#) web site, the [Federal Audit Clearinghouse](#) or on the Virginia Auditor of Public Accounts' [local governments reports page](#).

While CAFRs are relatively easy to find, collecting data from them is difficult. Because the documents are in PDF format, relevant financial statistics must be located and re-entered into a computer spreadsheet or database. As a result, it is costly and difficult to develop and maintain local government scoring systems like the one presented in this study or the more complex system used by the Virginia Auditor. As we discuss in the policy recommendations section below, these systems could be more easily maintained and enhanced by replacing PDF-based local government financial reporting with a more advanced reporting standard such as Inline eXtensible Business Reporting Language (iXBRL).

## AT-RISK ENTITIES

Our review of 2017 CAFRs identified five local governments with lower composite scores than Petersburg. Two of these were identified as fiscally distressed in the Auditor of Public Accounts (APA) [analysis](#) of 2016 financial statements; three others are not on her list.

Town of Broadway. The lowest scoring entity was the Town of Broadway, in northwestern Virginia, primarily due to high debt and the absence of general fund reserves. The Town has run general fund deficits each fiscal year between 2014 and 2017, with expenditures exceeding revenues by 6% or more. In the absence of general fund reserves, Broadway is covering annual shortfalls by transferring money from the city's water and sewer funds. Over the long-run this practice appears to be unsustainable as evidenced by a decline in the unrestricted net position of the town's enterprise funds. Enterprise funds account for government activities that more closely resemble business operations, such as utilities. Broadway's water and sewer operations are encumbered by substantial debt loads. At the end of 2017, these operations were carrying over \$15 million in bonded debt, which is quadruple operating revenues. The town does not directly borrow on the municipal bond market; instead it participates in pooled bond offerings by the Virginia Resources Authority (VRA). VRA bonds are highly rated because they are supported by a diverse set of municipal borrowers and enjoy certain protections from the Commonwealth. Most importantly, the state can intercept aid payments by cities that fail to service their obligations within the debt pool. In 2017, Broadway's state aid exceeded its debt service costs, but accounted for more than a quarter of general fund revenues.

Town of Marion. Second from the bottom is the Town of Marion, in southwest Virginia, which, like Broadway, had no available general fund reserves. The town also reported a negative unrestricted net position, meaning that its total liabilities exceed its assets that are not tied up in infrastructure or otherwise earmarked.

Unfunded pension liabilities account for about a third of Marion's long-term obligations. If Marion's pensions were fully funded, its unrestricted net position would have been positive. The town participates

in the multi-employer Virginia Retirement System, and thus has relatively little control over the size of this debt. VRS determines actuarial assumptions used to measure actuarial liabilities and sets employer contribution rates in accordance with Commonwealth pension law. The town also has over \$1.2 million in Other Post-Employment Benefit liabilities which it could reduce by adjusting retiree health benefit policies.

The City of Bristol, in southwest Virginia on the border of Tennessee, had the third lowest score in our analysis and was cited in APA's review of 2016 CAFRs. The Auditor attributes Bristol's fiscal distress primarily to a heavily indebted solid waste fund, which requires general fund transfers to meet debt service payments. Problems with a solid waste facility forced Harrisburg, Pennsylvania into bankruptcy court in 2010, so the situation requires monitoring - as APA is now doing. Bristol's overall net position is negative, i.e. its total liabilities exceed total assets.

In 2017, the city's net position improved by \$2.1 million, but this was largely offset by restatements of Bristol's 2016 balances, which caused a downward adjustment of \$1.7 million. Restatements are unusual, and the fact that reasons for the changes are not provided in the 2017 CAFR should be a cause for concern. As Bristol's CPA firm noted in its compliance audit: "The City does not have proper controls in place to detect and correct errors in closing their year-end financial statements."

The City of Covington, in the far western part of the State near the West Virginia border, received a significantly higher score than Broadway, Marion and Bristol, but still ranked among the bottom five entities in our analysis. Although the city has a strong general fund balance, it has a heavy debt burden and a negative unrestricted net position.

Standard and Poor's rates the city at A+ (five notches below the maximum AAA rating but well above speculative levels), citing its weak economy and declining population as headwinds. According to the Census Bureau, estimated population in 2017 was 7% below the number enumerated in the decennial Census and is about half the peak reached in 1960. Declining population is an especially serious concern when a community has high debt loads, because fewer taxpayers and ratepayers are available to service obligations which potentially makes them unsustainable on a per capita basis. The city's largest employer, Westrock, recently announced plans to invest \$248 million in the local paper mill, offering reason to believe city population might stabilize.

Richmond County. APA also flagged Richmond County, the entity with the fifth lowest score in our review. Not to be confused with the City of Richmond, the sparsely populated County is in a rural part of the state close to the Chesapeake Bay. The Auditor's report cited low general fund reserves and negative unrestricted net position as causes for Richmond County's low relative ranking in 2016.

The County's 2017 CAFR shows modest improvement. General fund revenues slightly exceeded expenditures and overall net position improved, although most of the increase was offset by a restatement of capital asset values.

## LATE FILERS

The federal government requires state and local governments that expend more than \$750,000 of federal funds annually to file audited financial statements within nine months of their fiscal year end. Virginia has a more stringent requirement for its local governments: financials must be supplied to the Auditor of Public Accounts no later than November 30 - which is five months after fiscal year end.

In its most recent analysis - which covered financial statements for the year ending June 30, 2016 - APA advised that two local governments failed to file in a timely manner: Hopewell and Manassas Park.

Hopewell completed its 2016 financial statement in October 2018 - almost two years late. Although the city's financial statistics do not appear to indicate extreme financial distress, Hopewell's audit received a disclaimed opinion - meaning that the auditor did not receive sufficient documentation from the city to conduct proper due diligence. For example, Hopewell was unable to provide evidence to support accounts receivable balances for several enterprise funds. The 2016 report also included numerous restatements of 2015 end-of-year amounts. Finally, Hopewell's 2017 financial statements were still unavailable as of this writing.

Manassas Park has yet to publish its 2016 or 2017 CAFRs, making it the Commonwealth's most delinquent financial filer. In August 2017, Moody's withdrew the city's bond rating citing a lack of updated financial information. This situation could complicate future municipal bond offerings. In a statement provided to the Municipal Securities Rulemaking Board, the city attributed its inability to file its CAFR to a catastrophic accounting system failure among other factors. This is unfortunate because Manassas Park's 2015 financial statement suggests that the city is in a strong financial position.

## HIGH SCORES

It is worth noting that the low scoring and late filers, are exceptions to the rule. Most Virginia cities and counties were in good financial condition as of last summer.

Two entities received perfect scores on our metric: the Town of Ashland as well as King and Queen County. These governments had very strong general fund reserves and government-wide net positions as well as limited amounts of long-term debt. Other local governments with very high scores were Nottoway County, Town of Smithfield and the Town of Wise.

The adjacent table shows the scores for the largest 10 largest jurisdictions by population in the Commonwealth. As evidenced by the scores, some of the largest localities are potentially among the fiscally distressed in terms of their score.

Ten Largest Localities (by Population)		
Locality	Population	Score
County of Fairfax	1,081,726	48
City of Virginia Beach	437,994	52
County of Prince William	402,002	55
County of Chesterfield	316,236	86
County of Loudoun	312,311	69
County of Henrico	306,935	74
City of Norfolk	242,803	49
City of Chesapeake	222,209	75
County of Arlington	207,627	46
City of Richmond	204,214	53

Table 2: Ten Largest Localities

## POLICY RECOMMENDATIONS

After Petersburg's crisis, legislators responded by empowering APA to identify and assist financially distressed local governments before they entered an acute stage. APA has implemented a robust scoring system whose findings are at least partially validated by our more basic scoring system.

That said, we believe that further reforms could improve APA's monitoring efforts so that it can provide earlier warnings of fiscal distress. The sooner local financial problems are identified, the more time is available to implement solutions before default, bankruptcy, sharp tax hikes or draconian service cuts become necessary. Greater speed will be valuable during the next economic downturn, when local financial conditions can be expected to deteriorate, but to do so unevenly across the Commonwealth.

First, to calculate FAM scores or use other CAFR-based scoring systems, analysts must re-enter data from local government reports that are provided in PDF form. A better alternative would be adopting a modern, standards-based framework for municipal reporting. Under this approach local governments would transition CAFRs to a machine-readable format such as Inline eXtensible Business Reporting Language (iXBRL). A modern, standards-based framework, along with the iXBRL format has been adopted by the Securities and Exchange Commission. Under the SEC's current reporting mandate, public companies are required to file their quarterly and annual financial statements (10-Qs and 10-Ks) in iXBRL format.

An iXBRL document is an HTML page in which key financial items are enclosed in special tags. These tags are based on pre-defined reporting taxonomies and make the tagged information machine readable. An iXBRL CAFR may be viewed in a web browser, like any HTML document. Tagged information can be automatically extracted from the CAFR and loaded into a spreadsheet or database with the aid of an Excel macro or simple computer program.

Adopting a standards-based framework and transitioning Virginia local government CAFRs from pdf to iXBRL format will allow APA to automatically and accurately load CAFR factors into its Financial Assessment Model as soon as they become available, thus permitting more immediate scoring while saving manual effort and eliminating keypunch errors. It is also worth noting that once adopted, a standards-based framework, using the iXBRL format, can allow for real time validation of the information in a CAFR report. Omission of key information in a CAFR or amounts that appeared unusual or inconsistent based criteria established by the state, could be automatically flagged at the point of submission. Notification of the anomaly could be communicated to the municipality in real time as part of the CAFR submission process. The municipality would then be prompted to add the missing data or to include an explanation for the anomaly with the CAFR submission.

Second, APA should reconsider the use of percentile rankings in its FAM scores. Under the Auditor's current methodology, ratios are calculated for a full set of CAFRs, entities are ranked and then their percentile score is determined (since Virginia has about 170 local governments filing CAFRs, the government with the 85th best score would receive a percentile ranking of 50% for that ratio).

A drawback of this approach is that the full set of CAFRs must be processed before any scores can be determined. An alternative is to convert ratio levels to scores using predetermined factors, which is how the scoring system presented in this paper works. Under our methodology, a city or county whose ratio of Unrestricted General Fund Balance to General Fund Expenditures is greater than or equal to 32%, it receives the full 30 points for this metric. If, by contrast, the ratio is 2% or lower, the entity receives 0



points. Since very low or negative fund balances is generally considered to be a sign of distress, it is possible to set these thresholds a priori - without considering how the entity compares to peers.

By embracing iXBRL and moving to a scoring system with fixed thresholds, APA would be able to score each local government CAFR upon receipt. This maximizes the opportunity for APA, state and local officials to respond to signs of fiscal distress.

# Appendix: Fiscal Scores

ENTITY	SCORE	UNP	DEBT	GF
Abingdon	81	8.96	22.32	30.00
Accomack County	69	6.41	25.04	17.20
Albemarle County	70	4.33	23.30	22.11
Alexandria	60	4.02	22.08	14.51
Alleghany County	73	5.95	26.46	23.06
Altavista	94	20.00	24.24	30.00
Amelia County	93	12.79	30.00	30.00
Amherst	49	16.33	12.24	0.00
Amherst County	76	8.07	17.62	30.00
Appomattox County	76	9.50	16.42	30.00
Arlington County	46	4.77	20.65	0.54
Ashland	100	20.00	30.00	30.00
Augusta County	68	8.23	22.00	17.49
Bath County	88	9.55	30.00	30.00
Bedford County	77	4.51	23.35	30.00
Bedford	61	5.89	23.48	11.92
Berryville	81	20.00	11.34	30.00
Big Stone Gap	48	4.49	10.28	13.05
Blacksburg	69	5.42	24.67	19.25
Blackstone	57	9.35	23.73	4.22
Bland County	72	6.86	15.38	30.00

ENTITY	SCORE	UNP	DEBT	GF
Bluefield	82	9.69	22.92	30.00
Botetourt County	83	6.91	28.06	30.00
Bridgewater	51	2.10	29.32	0.00
Bristol	34	0.00	0.32	13.26
Broadway	25	5.68	0.00	0.00
Brunswick County	80	6.72	25.59	30.00
Buchanan County	87	7.03	30.00	30.00
Buckingham County	74	12.10	12.28	30.00
Buena Vista	55	4.15	14.26	19.02
Campbell County	85	7.98	27.08	30.00
Caroline County	62	9.73	2.65	30.00
Carroll County	64	6.28	21.17	17.26
Charles City County	90	9.75	30.00	30.00
Charlotte County	71	3.48	23.69	30.00
Charlottesville	81	6.76	24.61	30.00
Chesapeake	75	7.31	19.47	30.00
Chesterfield County	86	11.05	25.16	30.00
Christiansburg	88	11.62	26.44	30.00
Clarke County	80	9.18	21.31	30.00
Clarksville	63	14.81	9.60	30.00
Clifton Forge	52	11.55	20.91	1.75
Colonial Beach	52	0.00	8.77	23.63
Colonial Heights	61	2.00	22.00	17.20

ENTITY	SCORE	UNP	DEBT	GF
Commonwealth of Virginia	51	1.41	30.00	0.00
Covington	43	1.48	0.59	22.03
Craig County	89	10.68	30.00	30.00
Culpeper County	81	8.73	22.37	30.00
Culpeper	80	15.11	15.36	30.00
Cumberland County	48	7.37	4.46	16.18
Danville	94	15.31	30.00	30.00
Dickenson County	67	4.01	30.00	13.90
Dinwiddie County	73	8.44	14.94	30.00
Dumfries	89	17.88	20.65	30.00
Emporia	79	12.40	16.83	30.00
Essex County	68	6.62	17.38	24.86
Fairfax	49	0.63	15.35	13.27
Fairfax County	48	0.00	18.31	10.13
Falls Church	92	15.94	26.37	30.00
Farmville	77	6.79	20.13	30.00
Fauquier County	64	0.00	27.78	16.53
Floyd County	84	8.90	25.64	30.00
Fluvanna County	62	11.64	2.71	30.00
Franklin	75	3.74	27.28	24.98
Franklin County	78	6.22	25.35	27.09
Frederick County	81	10.27	20.50	30.00
Fredericksburg	74	8.13	17.97	27.97

ENTITY	SCORE	UNP	DEBT	GF
Front Royal	91	20.00	21.05	30.00
Galax	65	4.49	27.22	13.71
Giles County	53	4.16	17.42	11.85
Gloucester County	82	8.33	23.61	30.00
Goochland County	64	11.12	3.11	30.00
Grayson County	76	7.40	18.88	30.00
Greene County	78	9.03	21.05	30.00
Greensville County	81	12.71	17.81	30.00
Halifax County	76	11.08	17.47	30.00
Hampton	67	0.11	16.44	30.00
Hanover County	78	8.74	25.12	24.31
Harrisonburg	69	6.05	14.51	28.72
Henrico County	74	3.01	20.61	30.00
Henry County	89	15.92	24.87	30.00
Herndon	92	12.52	29.30	30.00
Highland County	91	16.35	30.00	30.00
Isle of Wight County	64	5.31	11.04	30.00
James City County	79	11.84	22.77	25.30
King and Queen County	100	20.00	30.00	30.00
King George County	78	16.26	11.71	30.00
King William County	87	10.21	26.64	30.00
Lancaster County	64	4.32	29.26	10.88

ENTITY	SCORE	UNP	DEBT	GF
Lee County	85	8.21	30.00	27.78
Leesburg	77	10.94	16.79	30.00
Lexington	73	12.36	13.22	30.00
Loudoun County	69	0.00	23.14	26.18
Louisa County	88	18.08	22.59	30.00
Lunenburg County	84	13.20	21.19	30.00
Luray	73	9.00	13.74	30.00
Lynchburg	54	2.47	8.21	23.15
Madison County	89	11.68	29.64	30.00
Manassas	79	5.17	26.34	27.19
Marion	32	0.00	17.49	0.00
Martinsville	59	3.93	23.24	13.69
Mathews County	89	9.03	30.00	30.00
Mecklenburg County	72	14.29	30.00	19.15
Middlesex County	82	14.42	20.50	30.00
Montgomery County	69	9.76	11.28	28.12
Nelson County	88	15.66	24.60	30.00
New Kent County	79	16.25	14.12	29.09
Newport News	52	0.00	14.91	17.33
Norfolk	49	2.04	7.41	19.46
Northampton County	73	10.04	21.06	30.00
Northumberland County	63	5.90	16.49	21.50

ENTITY	SCORE	UNP	DEBT	GF
Norton	61	3.78	24.84	12.54
Nottoway County	99	20.00	29.85	30.00
Onancock	61	10.97	0.00	30.00
Orange County	72	9.96	12.45	30.00
Orange	59	5.54	3.65	30.00
Page County	55	0.00	10.46	24.06
Patrick County	53	6.15	7.11	25.97
Petersburg	44	0.29	23.54	0.00
Pittsylvania County	73	7.03	15.91	30.00
Poquoson	64	5.88	18.78	18.93
Portsmouth	51	0.00	1.30	30.00
Powhatan County	60	7.73	1.86	30.00
Prince Edward County	78	5.74	22.07	30.00
Prince George County	80	9.24	20.80	30.00
Prince William County	55	0.00	19.89	14.99
Pulaski County	87	8.72	28.51	30.00
Pulaski	66	3.02	30.00	13.82
Purcellville	70	19.94	0.00	30.00
Radford	60	4.17	27.73	8.12
Rappahannock County	74	3.56	30.00	20.77
Richlands	49	2.30	25.77	1.38
Richmond	53	2.59	10.42	19.80

ENTITY	SCORE	UNP	DEBT	GF
Richmond County	43	2.74	20.06	0.38
Roanoke	48	0.00	17.46	10.81
Roanoke County	58	2.41	20.72	16.55
Rockbridge County	75	13.33	13.81	30.00
Rockingham County	59	0.00	22.17	16.74
Rocky Mount	87	17.39	21.83	30.00
Russell County	71	3.59	26.69	22.07
Salem	78	4.83	23.45	30.00
Scott County	64	0.00	30.00	13.89
Shenandoah County	72	4.96	24.90	21.74
Smithfield	96	17.67	29.51	30.00
Smyth County	49	5.53	9.80	17.30
South Boston	68	5.52	16.74	30.00
South Hill	90	20.00	30.00	30.00
Southampton County	50	3.91	9.18	18.77
Spotsylvania County	61	0.00	13.51	27.09
Stafford County	52	0.00	10.11	21.89
Staunton	77	9.09	21.67	25.82
Strasburg	66	15.69	0.00	30.00
Suffolk	63	9.04	4.40	30.00
Surry County	89	14.36	25.75	30.00
Sussex County	77	8.10	24.31	25.26



ENTITY	SCORE	UNP	DEBT	GF
Tazewell County	64	3.13	26.64	13.86
Tazewell	54	2.96	25.12	7.44
Vienna	74	5.38	20.44	29.30
Vinton	77	6.60	21.92	27.98
Virginia Beach	62	2.75	19.50	19.78
Warren County	55	10.13	5.44	19.09
Warrenton	89	16.22	23.18	30.00
Washington County	82	6.76	28.95	26.92
Waynesboro	73	4.34	21.03	28.20
Westmoreland County	83	8.68	24.21	30.00
WestPoint	89	13.80	25.55	30.00
Williamsburg	89	11.63	29.27	30.00
Winchester	59	0.00	9.99	29.13
Wise County	67	7.42	9.39	30.00
Wise	99	18.79	30.00	30.00
Woodstock	59	7.84	1.59	30.00
Wythe County	84	20.00	14.37	30.00
Wytheville	83	16.30	16.95	30.00
York County	75	2.33	24.62	30.00

## About The Authors

Marc Joffe is a Senior Policy Analyst at Reason Foundation and also chairs the XBRL US State and Local Disclosure Modernization Working Group. His government finance research has been published by the Mercatus Center at George Mason University, the MacDonald-Laurier Institute and the California Debt and Investment Advisory Commission among others. Before becoming a policy analyst, Marc worked in the financial industry, holding management roles at multiple banks and serving as a Senior Director at Moody's Analytics.

Yossef Newman, CPA, is a professor of financial and governmental accounting at the Lander College of Arts and Sciences. He also serves as Strategy and Implementation advisor for Structured Disclosure Systems at Ez-XBRL Solutions, Inc. Yossef has extensive experience in the design and implementation of structured disclosure systems and standards-based reporting. He has worked with a wide range of companies, helping them to understand and prepare for XBRL reporting requirements such as the SEC's XBRL mandate. In addition, Yossef has served on the Board of Directors of XBRL US Inc., on technical advisory boards to both the Financial Accounting Standards Board and the International Accounting Standards Board and on the XBRL Assurance Task Force of the AICPA.

## ABOUT REASON FOUNDATION

Reason Foundation's nonpartisan public policy research promotes choice, competition, and a dynamic market economy as the foundation for human dignity and progress. Reason produces rigorous, peer-reviewed research and directly engages the policy process, seeking strategies that emphasize cooperation, flexibility, local knowledge, transparency, accountability, and results. Through practical and innovative approaches to complex problems, Reason seeks to change the way people think about issues, and promote policies that allow and encourage individuals and voluntary institutions to flourish. Reason Foundation was founded in 1968 and is a 501(c)(3) nonprofit organization completely supported by voluntary contributions from individuals, foundations, corporations, and the sale of our publications.



## ABOUT EZ-XBRL SOLUTIONS

Ez-XBRL Solutions, Inc. is a global provider of solutions for Financial Analytics and Financial Regulatory Compliance. The company is headquartered in Virginia, USA with operations in multiple countries including the US, the UK, India, and South Africa. Ez-XBRL's solutions are utilized in the domains of Financial Research and Analysis, Financial Regulatory Compliance, and Big Data Analytics. The company's clients include Investment Research Analysts, Accounting and Audit Firms, Financial Printing and Communications Companies, Public Listed Companies, Institutional Investors, Financial Regulators, and Research Institutions.



## XBRL US

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