

## CREDIT OPINION

23 February 2018

Rate this Research



#### Contacts

Marcia Van Wagner +1.212.553.2952 VP-Sr Credit Officer

marcia.vanwagner@moodys.com

Pisei Chea +1.212.553.0344

Analyst
pisei.chea@moodys.com

## CLIENT SERVICES

Americas 1-212-553-1653 Asia Pacific 852-3551-3077 Japan 81-3-5408-4100 EMEA 44-20-7772-5454

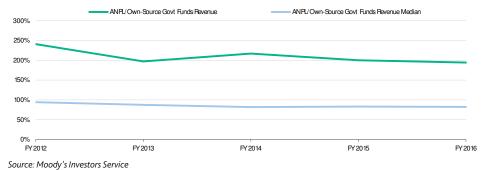
# Maryland (State of)

Update to credit analysis

# **Summary**

<u>Maryland</u> (Aaa stable) benefits from a significant federal presence that provides well-paid civilian and national defense jobs and has generally led to a stable economic environment. The state has strong budgetary and financial management practices and a history of proactive initiatives in response to economic cycles. A relatively high debt and pension burden leads to high fixed costs compared to peers and will continue to test the state's commitment to reducing its long term liabilities while providing the level of services expected by its residents.

Exhibit 1
Maryland's ANPL elevated by state payment of unfunded teacher pension liabilities



# **Credit strengths**

- » Proactive financial management
- » Stable economy with high personal income levels
- » Adequate budgetary reserves and strong liquidity

# **Credit challenges**

- » High net pension liabilities and above average debt burden relative to Maryland's Aaa peers, leading to high fixed costs
- » Vulnerability to swings in federal spending priorities
- » Addressing prospective structural imbalance

# **Rating outlook**

The outlook for Maryland's general obligation debt is stable. The state's proactive fiscal management enables it to make midcourse corrections and weather economic cycles. It has also taken often difficult actions to strengthen the foundation for long term fiscal sustainability. Even so, growth in fixed costs for pensions, debt service and retiree health benefits will continue to be a challenge.

# Factors that could lead to a downgrade

- » Economic and financial deterioration that results in deficits, fund transfers and reserve draws without a plan for near-term replenishment and structural balance
- » Failure to adhere to policies to redress large unfunded pension liabilities
- » Downgrade of the US government

# **Key indicators**

Exhibit 2

Maryland	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016
Operating Fund Revenues (000s)	17,861,360	18,809,434	18,954,432	19,769,076	20,471,039
Balances as % of Operating Fund Pevenues	0.0%	0.5%	-0.8%	0.1%	1.6%
Net Tax-Supported Debt (000s)	10,585,600	10,617,996	11,290,500	11,577,387	12,764,867
Net Tax-Supported Debt/Personal Income	3.6%	3.4%	3.5%	3.5%	3.8%
Net Tax-Supported Debt/Personal Income 50 State Median	2.8%	2.6%	2.5%	2.5%	2.5%
Debt/Own-Source Governmental Funds Revenue	52.4%	49.4%	51.7%	50.5%	53.6%
Debt/Own-Source Government al Funds Pevenue Median	37.4%	36.1%	35.8%	34.4%	32.7%
ANPL/Own-Source Govt Funds Revenue	240.6%	197.0%	216.9%	199.8%	194.2%
ANPL/Own-Source Govt Funds Revenue Median	94.2%	87.6%	81.8%	83.0%	82.2%
Total Non-Farm Employment Change (CY)	1.2%	1.0%	0.9%	1.6%	1.4%
Per Capita Income as a % of US(CY)	120.5%	118.4%	116.5%	116.4%	116.9%

Source: Moody's Investors Service; Maryland audited financial statements

#### **Profile**

Maryland is located on the east coast of the United States and has 3,190 miles of shoreline, according to the National Oceanic and Atmospheric Administration. Its population of 6 million places it 19th among the 50 states. Its state gross domestic product is 15th largest. The state has above average wealth, with per-capita personal income equal to 118% of the US level in 2017.

#### **Detailed credit considerations**

#### **Economy**

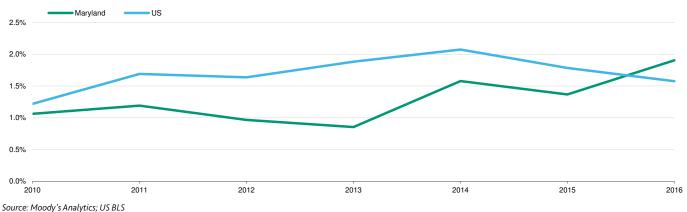
Maryland's highly-educated workforce and proximity to the nation's capital will continue to support steady economic growth. About 39% of the population age 25 and over have at least a bachelor's degree, compared to nearly 31% nationwide. The state's economy is more concentrated than the nation's in business and professional services, education and health services, and government.

While historically a source of stability, the large federal presence in Maryland has in recent years been a mixed blessing. Federal jobs account for more than 5% of Maryland employment, compared to about 2% nationally. Federal sequestration slowed overall job growth in 2013 followed by a rebound. In 2017, the state's total job count grew 1.9% compared to a slightly lower 1.6% nationwide, based on preliminary BLS estimates.

This publication does not announce a credit rating action. For any credit ratings referenced in this publication, please see the ratings tab on the issuer/entity page on www.moodys.com for the most updated credit rating action information and rating history.

Exhibit 3

Maryland employment growth has picked up since the federal sequester % change in annual employment



The state's Board of Revenue Estimates forecasts slowing employment growth over the next several years, reflecting demographic trends. However, personal income growth is expected to achieve relatively stable growth of about 3.5% as wages and other components of income grow.

Given the highly skilled workforce and concentration in government and related employment, Maryland's unemployment rate is typically below the US. In December, Maryland's unemployment rate was 4% compared to 4.1% in the nation.

## **Finances and Liquidity**

Despite the state's economic rebound from the federal sequester, it will continue to be challenged by recurring structural imbalances. These projected imbalances reflect revenue growth that is slow relative to historical norms and increasing costs for major expense areas such as Medicaid.

Governor Hogan's proposed fiscal 2019 budget would increase spending about 2% after keeping appropriations relatively flat in fiscal 2017 and fiscal 2018. The budget includes a projected fiscal 2019 surplus of about \$100 million, after budgetary surpluses of \$258 million in fiscal 2017 and \$207 million expected in fiscal 2018. The declining surpluses reflect the state's continued need to draw on reserves to maintain balance. However, the projections do not take into account the likely fiscal benefit to the state from the federal tax reform bill or potential actions the legislature might take to return some of that benefit to taxpayers.

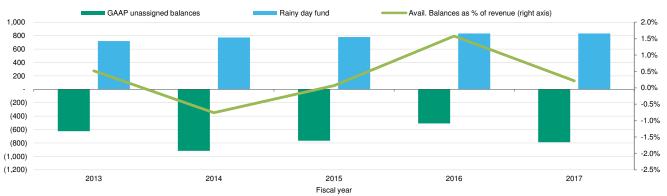
Although the state struggles with structural gaps, it is also quick to address mid-year shortfalls. Early in the current fiscal year, the Board of Public Works, which has extensive authority to adjust budgets, made \$67 million in general fund agency reductions to address an identified shortfall. The state also maintains its rainy day fund at or near 5% of revenues since balances were replenished after the recession.

On an audited GAAP basis, the state's available balances (unassigned balances plus the rainy day fund balance) have been low but positive since fiscal 2015. The state's unassigned fund balance—those funds that are not otherwise restricted or committed—has been negative partly due to the state carrying a liability stemming from the transfer of funds from a local income tax reserve fund during the 2010-2015 period. Unassigned balances were -\$788 million at the end of fiscal 2017, slightly offset by a \$832 million balance in the revenue stabilization account (RSA) (see Exhibit). At less than 1% of operating revenues, available balances remain below those of the state's Aaa peers. During the previous decade the state built its GAAP-basis available balances to nearly \$2.3 billion in 2007, a cushion of more than 15% of revenues.

Exhibit 4

Maryland's rainy day reserves offset by negative unassigned balances

Billions of dollars



Source: Moody's Investors Service; Maryland audited financial statements

In 2017, the state enacted House Bill 503, which is designed to reduce the impact of volatility on state budgeting, including conservative treatment of revenues from personal income tax non-withholding collections and allocation of positive revenue variances to reduce long-term liabilities such as pensions and retiree health insurance or bolstering the state's rainy day reserves. If the state abides by the guidelines, the measures should strengthen the state's overall credit profile in the long run by bolstering reserves and reducing leverage.

#### LIQUIDITY

Maryland's liquidity is strong, bolstered by unfettered access to the state's short-term investment pool. As of January 31, 2018, the market value was about \$8.5 billion

# **Debt and Pensions**

Maryland's debt levels relative to 50-state medians are high. Moody's 2017 state debt medians ranks Maryland 15th for debt as a percent of personal income and 11th on a per capita basis. The state's debt burden has historically remained within the recommendations of its Capital Debt Affordability Committee, which advises limiting total debt to within 4% of personal income and debt service to within 8% of revenues

#### **DEBT STRUCTURE**

The state's tax-supported debt is about \$12 billion. The state's debt consists primarily of general obligation bonds (75%) and consolidated transportation revenue bonds (18%). The remaining debt consists of GARVEEs, lease commitments and bay restoration bonds. Maryland has about \$50 million of outstanding variable rate debt that was issued by the Maryland Stadium Authority for baseball stadium improvements.

Maryland's constitution requires a rapid 15-year amortization of tax-supported debt. This policy increases debt service as a percentage of revenues, but also quickly replenishes the state's debt capacity and helps restrain growth in the outstanding balance. The state ranked 9th in debt service as a percent of own-source governmental funds revenue adjusted for net transfers in our 2017 State Debt Medians report.

Maryland has a single series of variable rate demand bonds outstanding, issued through the Maryland Stadium Authority. Liquidity support for tenders is provided through an SBPA provided by <u>Sumitomo Mitsui Banking Corporation</u> (counterparty risk assessment A1(cr)/P-1(cr)) that expires in 2019. The state also has about \$77.3 million in privately placed loans under the Qualified Zone Academy Bond program as of July 1.

#### **DEBT-RELATED DERIVATIVES**

There is a swap with notional value of \$71 million in conjunction with the Maryland Stadium Authority's variable rate debt. The mark-to-market value of the swap was about -\$9.6 million as of June 30, 2017.

#### PENSIONS AND OPEB

The state's pension costs will continue to grow in coming years, reflecting the poor investment performance of fiscal years 2015 and 2016. The financial condition of Maryland's retirement system represents the state's most significant credit challenge. The state's weak pension position stems from the combined effects of asset losses associated with the financial crisis and the enactment in 2002 of a corridor funding method that resulted in contributions less than actuarially required when the pension system had a funded ratio of less than 90%.

The state's reported net pension liability for fiscal 2017 is \$22.173 billion for the Maryland State Retirement and Pension System (MSRPS), representing 94% of the plan's total net pension liability, and \$969 million for the Maryland Transit Administration Pension Plan. In fiscal 2016, the state's three-year average Moody's adjusted net pension liability (ANPL) ranked sixth-highest among the states at 195% of own-source governmental revenues, more than twice the median of 78%. Our adjustments to reported state pension data include a market-based discount rate to value the liabilities rather than the long-term investment return used in reported figures, and are designed to improve comparability among state pension metrics.

Demonstrating its proactive management approach, the state has taken a number of steps to manage its pension burden that have included reductions in its liabilities and efforts to improve funding. It has enacted reforms to both pension and retiree health (OPEB) legislation and has shifted the responsibility for paying the normal cost of teacher pension to local governments. The state has phased out its corridor funding method and starting with fiscal 2017 makes contributions based on full payment of actuarially determined contribution (ADC) amounts. In addition, the state has committed to adding \$75 million to its contributions to amortize its liabilities more rapidly than the baseline actuarial schedule and to contribute additional amounts depending on year-end general fund surpluses. Even with these additional payments, improvements in the pension plan's net position relative to its liability have stalled, with this ratio as reported by the pension system at 72% in fiscal 2014 and 69.4% in fiscal 2017.

The additional contributions bring the state's contribution level nearer than would otherwise be the case to the "tread water" amount that would prevent the state's pension liabilities from growing by covering interest on the beginning of year net pension liability and annual service cost. In fiscal 2017, the state actuarially determined contribution of \$1.924 billion was 89% of this threshold, but more than 92% when factoring in the additional payment.

The state's OPEB (retiree health insurance) annual required contribution (ARC) rose to an estimated \$779 million in fiscal 2017, an increase from \$574 million in 2015. The state made actual payments of \$526 million, representing the pay-go cost of retiree health benefits. While the state established a trust fund to accumulate assets to offset accrued OPEB liabilities, it does not regularly contribute to it. As of July 1, 2017, the fund held \$307 million in assets to offset \$11.4 billion in liabilities, resulting in a net OPEB obligation (reported in accordance with new accounting guidelines) of \$11.085 billion. The state implemented OPEB reforms in 2011 that increased eligibility requirements to contain long-term growth in OPEB liabilities.

### Governance

Maryland's financial practices and flexibility are very strong. For example, the state has a binding consensus revenue forecast, multiyear financial planning, and its Board of Public Works, consisting of the Governor, the Comptroller and the Treasurer, is able to respond swiftly to mid-year budget challenges. The state also has no tax and spending limitations or supermajority requirements limiting its flexibility.

© 2018 Moody's Corporation, Moody's Investors Service, Inc., Moody's Analytics, Inc. and/or their licensors and affiliates (collectively, "MOODY'S"). All rights reserved.

CREDIT RATINGS ISSUED BY MOODY'S INVESTORS SERVICE, INC. AND ITS RATINGS AFFILIATES ("MIS") ARE MOODY'S CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES, AND MOODY'S PUBLICATIONS MAY INCLUDE MOODY'S CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES. MOODY'S DEFINES CREDIT RISK AS THE RISK THAT AN ENTITY MAY NOT MEET ITS CONTRACTUAL, FINANCIAL OBLIGATIONS AS THEY COME DUE AND ANY ESTIMATED FINANCIAL LOSS IN THE EVENT OF DEFAULT. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK, INCLUDING BUT NOT LIMITED TO: LIQUIDITY RISK, MARKET VALUE RISK, OR PRICE VOLATILITY. CREDIT RATINGS AND MOODY'S OPINIONS INCLUDED IN MOODY'S PUBLICATIONS ARE NOT STATEMENTS OF CURRENT OR HISTORICAL FACT. MOODY'S PUBLICATIONS MAY ALSO INCLUDE QUANTITATIVE MODEL-BASED ESTIMATES OF CREDIT RISK AND RELATED OPINIONS OR COMMENTARY PUBLISHED BY MOODY'S ANALYTICS, INC. CREDIT RATINGS AND MOODY'S PUBLICATIONS ON OT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND CREDIT RATINGS AND MOODY'S PUBLICATIONS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. NEITHER CREDIT RATINGS NOR MOODY'S PUBLICATIONS COMMENT ON THE SUITABILITY OF AN INVESTMENT FOR ANY PARTICULAR INVESTOR. MOODY'S ISSUES ITS CREDIT RATINGS AND PUBLISHES MOODY'S PUBLICATIONS WITH THE EXPECTATION AND UNDERSTANDING THAT EACH INVESTOR WILL, WITH DUE CARE, MAKE ITS OWN STUDY AND EVALUATION OF EACH SECURITY THAT IS UNDER CONSIDERATION FOR PURCHASE, HOLDING, OR SALE.

MOODY'S CREDIT RATINGS AND MOODY'S PUBLICATIONS ARE NOT INTENDED FOR USE BY RETAIL INVESTORS AND IT WOULD BE RECKLESS AND INAPPROPRIATE FOR RETAIL INVESTORS TO USE MOODY'S CREDIT RATINGS OR MOODY'S PUBLICATIONS WHEN MAKING AN INVESTMENT DECISION. IF IN DOUBT YOU SHOULD CONTACT YOUR FINANCIAL OR OTHER PROFESSIONAL ADVISER. ALL INFORMATION CONTAINED HEREIN IS PROTECTED BY LAW, INCLUDING BUT NOT LIMITED TO, COPYRIGHT LAW, AND NONE OF SUCH INFORMATION MAY BE COPIED OR OTHERWISE REPRODUCED, REPACKAGED, FURTHER TRANSMITTED, TRANSFERRED, DISSEMINATED, REDISTRIBUTED OR RESOLD, OR STORED FOR SUBSEQUENT USE FOR ANY SUCH PURPOSE, IN WHOLE OR IN PART, IN ANY FORM OR MANNER OR BY ANY MEANS WHATSOEVER, BY ANY PERSON WITHOUT MOODY'S PRIOR WRITTEN CONSENT.

CREDIT RATINGS AND MOODY'S PUBLICATIONS ARE NOT INTENDED FOR USE BY ANY PERSON AS A BENCHMARK AS THAT TERM IS DEFINED FOR REGULATORY PURPOSES AND MUST NOT BE USED IN ANY WAY THAT COULD RESULT IN THEM BEING CONSIDERED A BENCHMARK.

All information contained herein is obtained by MOODY'S from sources believed by it to be accurate and reliable. Because of the possibility of human or mechanical error as well as other factors, however, all information contained herein is provided "AS IS" without warranty of any kind. MOODY'S adopts all necessary measures so that the information it uses in assigning a credit rating is of sufficient quality and from sources MOODY'S considers to be reliable including, when appropriate, independent third-party sources. However, MOODY'S is not an auditor and cannot in every instance independently verify or validate information received in the rating process or in preparing the Moody's publications.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability to any person or entity for any indirect, special, consequential, or incidental losses or damages whatsoever arising from or in connection with the information contained herein or the use of or inability to use any such information, even if MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers is advised in advance of the possibility of such losses or damages, including but not limited to: (a) any loss of present or prospective profits or (b) any loss or damage arising where the relevant financial instrument is not the subject of a particular credit rating assigned by MOODY'S.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability for any direct or compensatory losses or damages caused to any person or entity, including but not limited to by any negligence (but excluding fraud, willful misconduct or any other type of liability that, for the avoidance of doubt, by law cannot be excluded) on the part of, or any contingency within or beyond the control of, MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers, arising from or in connection with the information contained herein or the use of or inability to use any such information.

NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, TIMELINESS, COMPLETENESS, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF ANY SUCH RATING OR OTHER OPINION OR INFORMATION IS GIVEN OR MADE BY MOODY'S IN ANY FORM OR MANNER WHATSOEVER.

Moody's Investors Service, Inc., a wholly-owned credit rating agency subsidiary of Moody's Corporation ("MCO"), hereby discloses that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by Moody's Investors Service, Inc. have, prior to assignment of any rating, agreed to pay to Moody's Investors Service, Inc. for appraisal and rating services rendered by it fees ranging from \$1,500 to approximately \$2,500,000. MCO and MIS also maintain policies and procedures to address the independence of MIS's ratings and rating processes. Information regarding certain affiliations that may exist between directors of MCO and rated entities, and between entities who hold ratings from MIS and have also publicly reported to the SEC an ownership interest in MCO of more than 5%, is posted annually at <a href="https://www.moodys.com">www.moodys.com</a> under the heading "Investor Relations — Corporate Governance — Director and Shareholder Affiliation Policy."

Additional terms for Australia only: Any publication into Australia of this document is pursuant to the Australian Financial Services License of MOODY'S affiliate, Moody's Investors Service Pty Limited ABN 61 003 399 657AFSL 336969 and/or Moody's Analytics Australia Pty Ltd ABN 94 105 136 972 AFSL 383569 (as applicable). This document is intended to be provided only to "wholesale clients" within the meaning of section 761G of the Corporations Act 2001. By continuing to access this document from within Australia, you represent to MOODY'S that you are, or are accessing the document as a representative of, a "wholesale client" and that neither you nor the entity you represent will directly or indirectly disseminate this document or its contents to "retail clients" within the meaning of section 761G of the Corporations Act 2001. MOODY'S credit rating is an opinion as to the creditworthiness of a debt obligation of the issuer, not on the equity securities of the issuer or any form of security that is available to retail investors. It would be reckless and inappropriate for retail investors to use MOODY'S credit ratings or publications when making an investment decision. If in doubt you should contact your financial or other professional adviser.

Additional terms for Japan only: Moody's Japan K.K. ("MJKK") is a wholly-owned credit rating agency subsidiary of Moody's Group Japan G.K., which is wholly-owned by Moody's Overseas Holdings Inc., a wholly-owned subsidiary of MCO. Moody's SF Japan K.K. ("MSFJ") is a wholly-owned credit rating agency subsidiary of MJKK. MSFJ is not a Nationally Recognized Statistical Rating Organization ("NRSRO"). Therefore, credit ratings assigned by MSFJ are Non-NRSRO Credit Ratings. Non-NRSRO Credit Ratings are assigned by an entity that is not a NRSRO and, consequently, the rated obligation will not qualify for certain types of treatment under U.S. laws. MJKK and MSFJ are credit rating agencies registered with the Japan Financial Services Agency and their registration numbers are FSA Commissioner (Ratings) No. 2 and 3 respectively.

MJKK or MSFJ (as applicable) hereby disclose that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by MJKK or MSFJ (as applicable) have, prior to assignment of any rating, agreed to pay to MJKK or MSFJ (as applicable) for appraisal and rating services rendered by it fees ranging from JPY200,000 to approximately JPY350,000,000.

MJKK and MSFJ also maintain policies and procedures to address Japanese regulatory requirements.

REPORT NUMBER 1113103

## **CLIENT SERVICES**

 Americas
 1-212-553-1653

 Asia Pacific
 852-3551-3077

 Japan
 81-3-5408-4100

 EMEA
 44-20-7772-5454

