

Pandemic Economy

Today's Speakers



Mark Zandi, PhD
Chief Economist



Adam Kamins
Senior Economist

Agenda

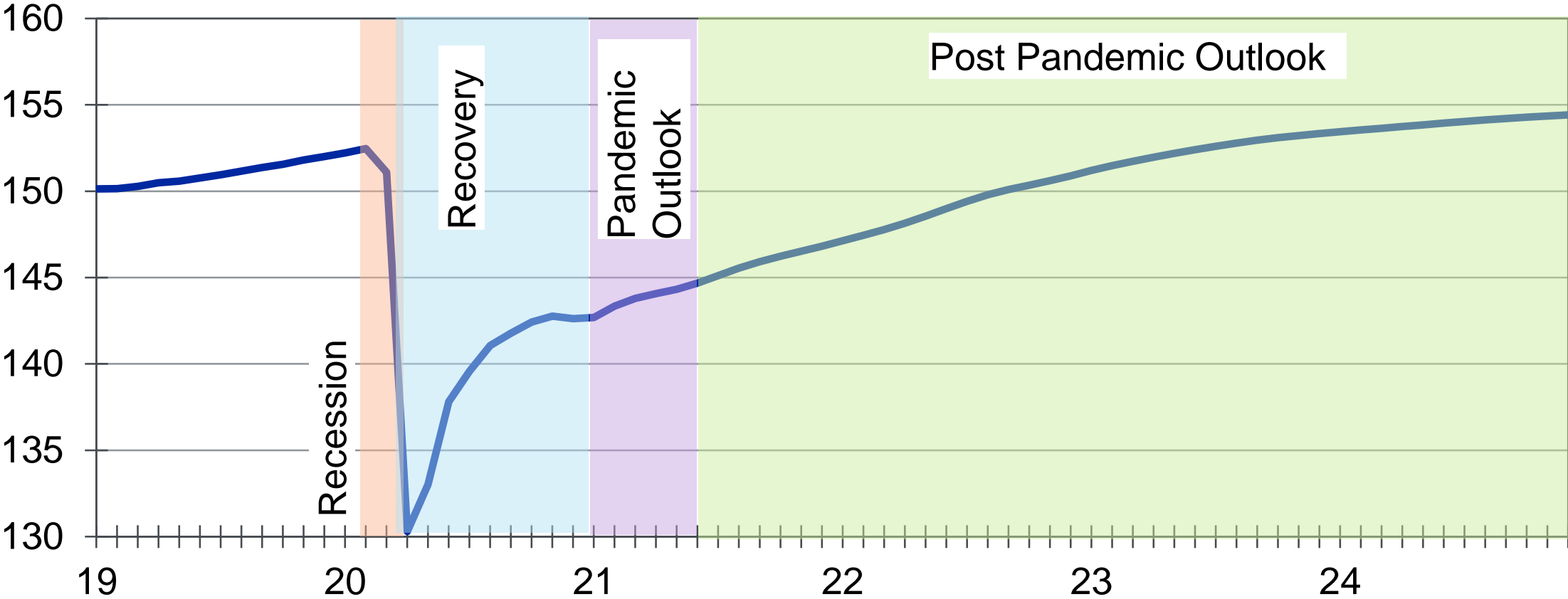
1. U.S. Economic Outlook
2. Regional Economic Outlook
3. Q&A

1

U.S. Economic Outlook

Tough Start to 2021, but Robust Growth By Mid-Year

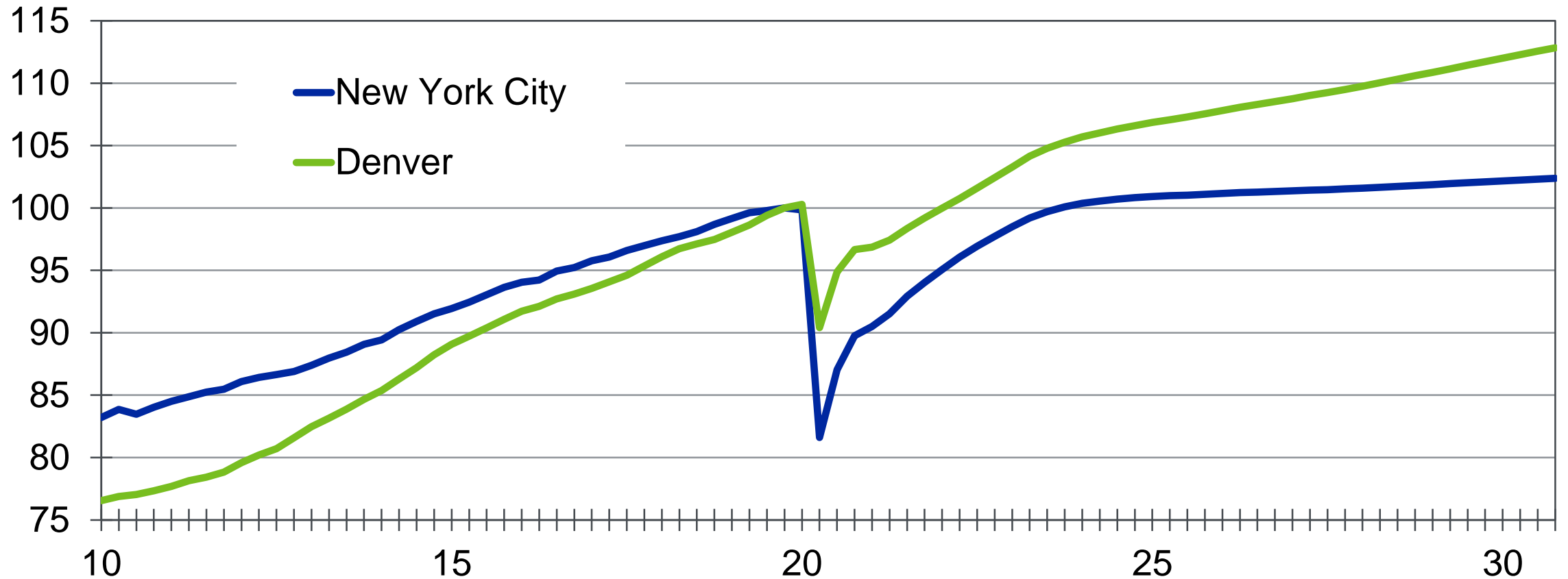
U.S. nonfarm employment, millions



Sources: BLS, Moody's Analytics

Pandemic Creates Winners and Losers

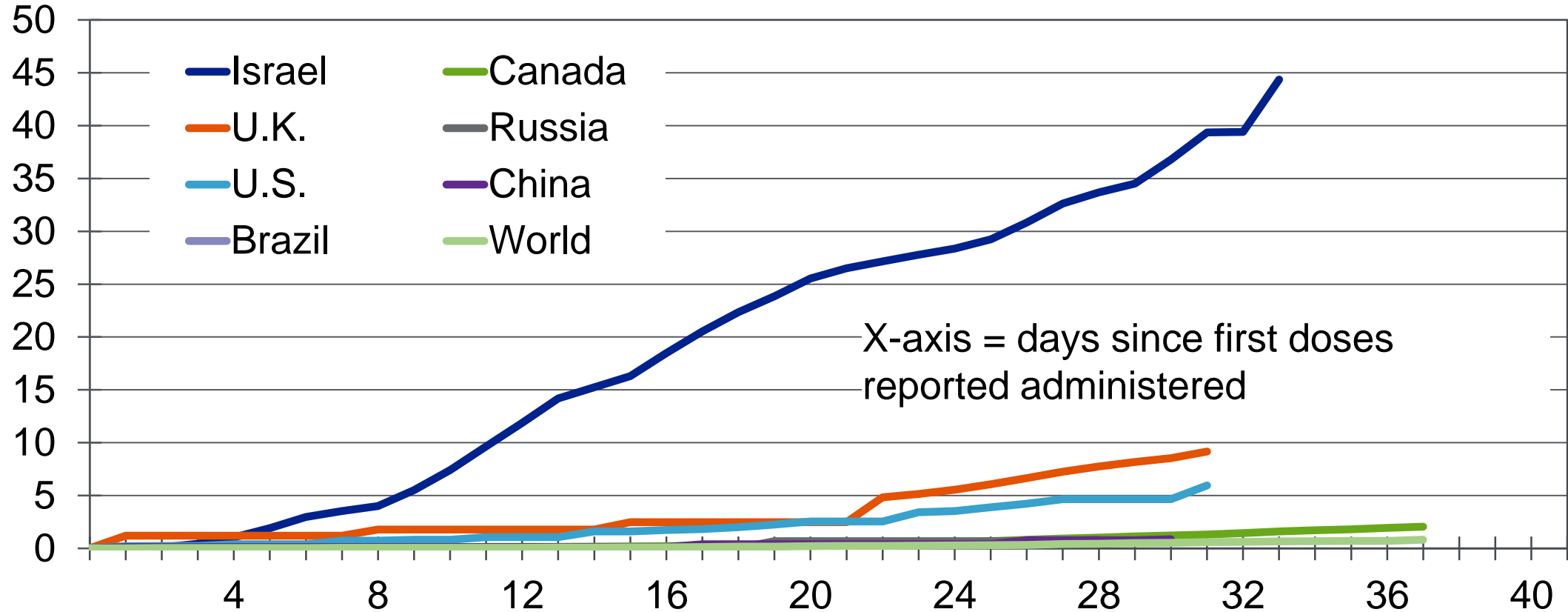
Employment, Index: 2019Q4 = 100



Sources: BLS, Moody's Analytics

Vaccinations Administered

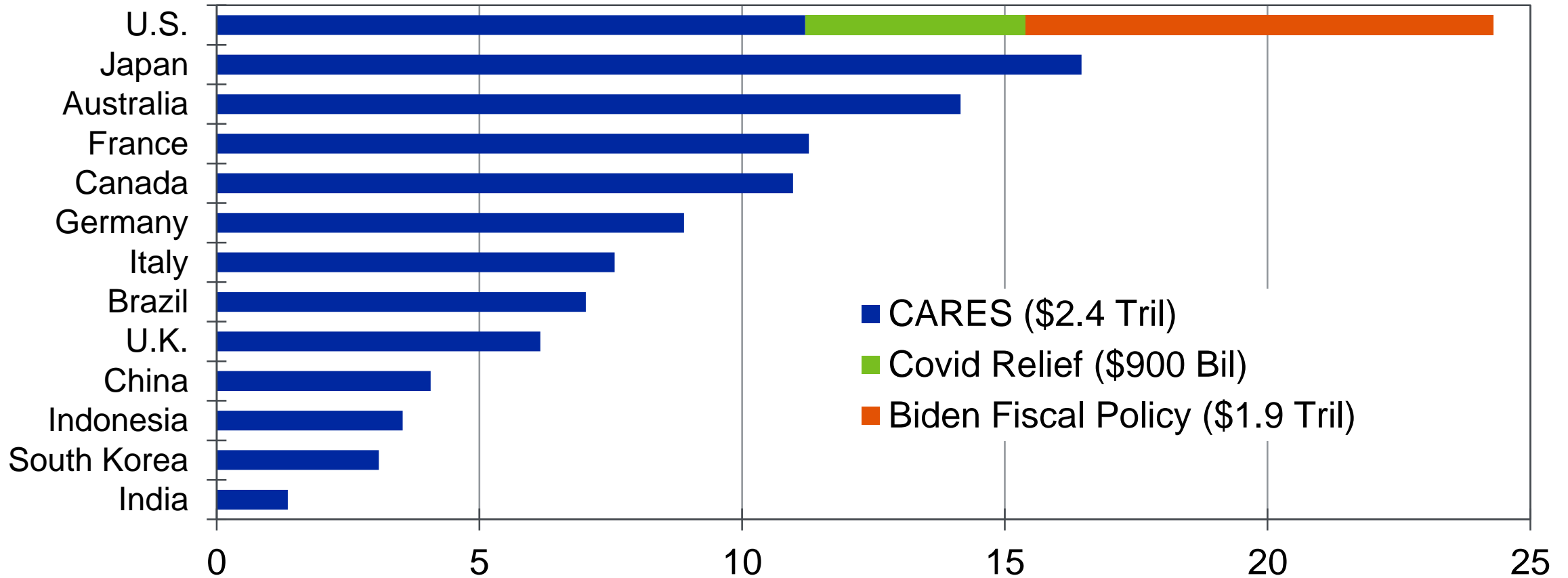
Select countries & world, % of 16 yr & older population



Sources: Our World in Data, World Bank, Moody's Analytics

Biden Pumps Up Fiscal Policy...

Fiscal support, % of 2019 GDP



Source: Moody's Analytics

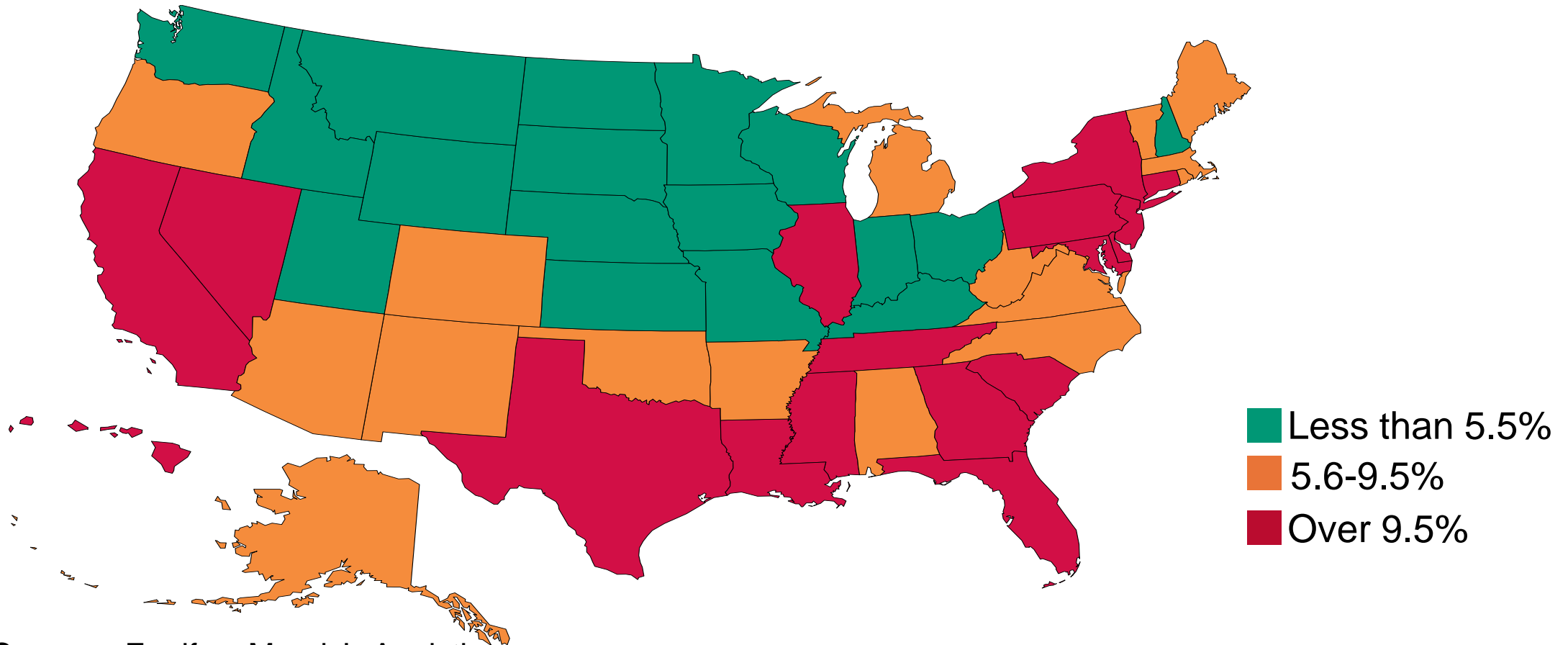
...and Will Make Other Policy Changes

Biden vs. Trump

Governing	Strengthen Institutions; Process for Decision Making; Increase Diversity; Stable Advisors
COVID-19	Federal Led; Invoke Defense Production Act
Immigration	Increase; Provide Healthcare; DACA
Climate/Energy	Clean Energy With Institutional Overhaul; Green Incentives; Paris Accord
Healthcare	ACA+Public Option; Lower Age for Medicare; Lower Rx Costs
Taxes	Repeal Tax Cut for Wealthy and Corporations; Potential Financial Transactions Tax
Gun Control	Pro Gun Control
Labor	Pro Union; \$15 Minimum Wage; Paid Leave
Police Reform	Black Lives Matter; Federal Lead
Banking	Undo Dodd-Frank Rollbacks; Pro ESG; Focus on Consumer Protections and Housing
Foreign Policy	Lead Multilateral Org; Coordinate with Allies
Trade	Reduce Tariffs; WTO
China	Strategic Competition; Modified TPP
Infrastructure	Supportive with Green Focus
Antitrust	Consider Broader Consumer/Labor Impact
Defense	Strengthen NATO; Renegotiate Nuclear Disarmament
Deficits	Big Deficits Through More Spending
Technology	Suspicious of Big Tech

What Happens When the Morphine Wears Off

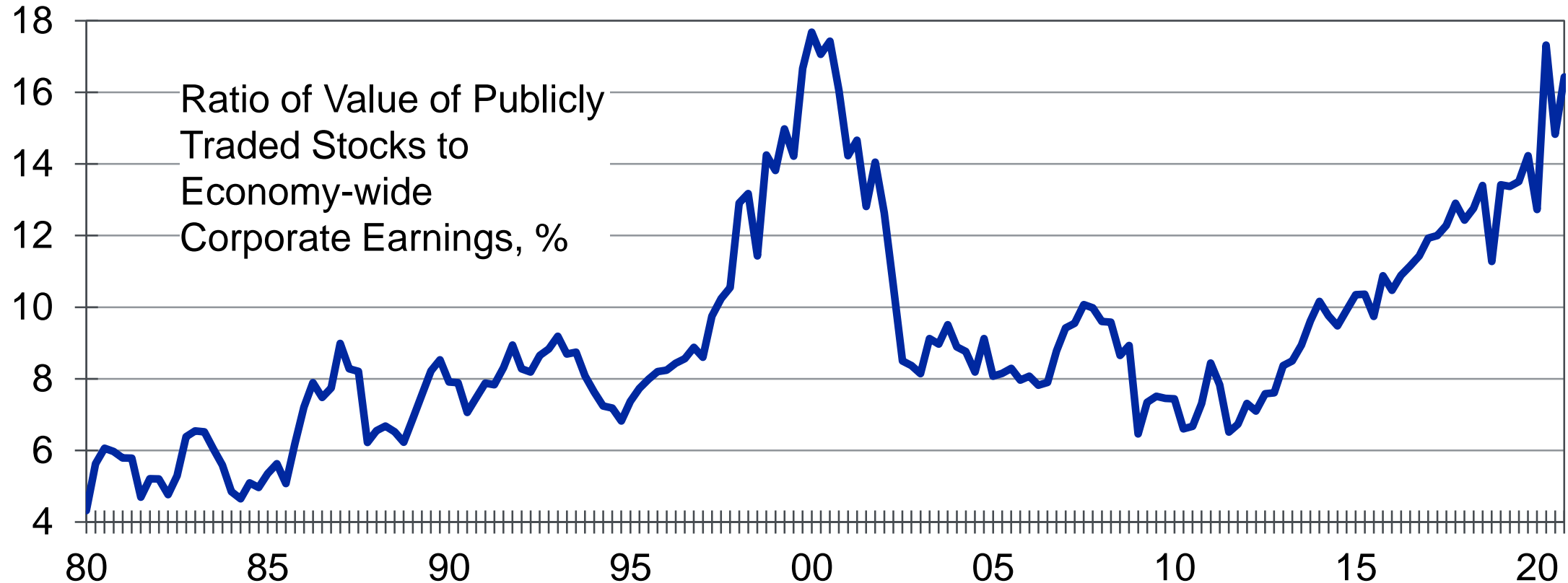
First mortgage loan accommodations, % of loan balances



Sources: Equifax, Moody's Analytics

Stock Prices Outpace Earnings

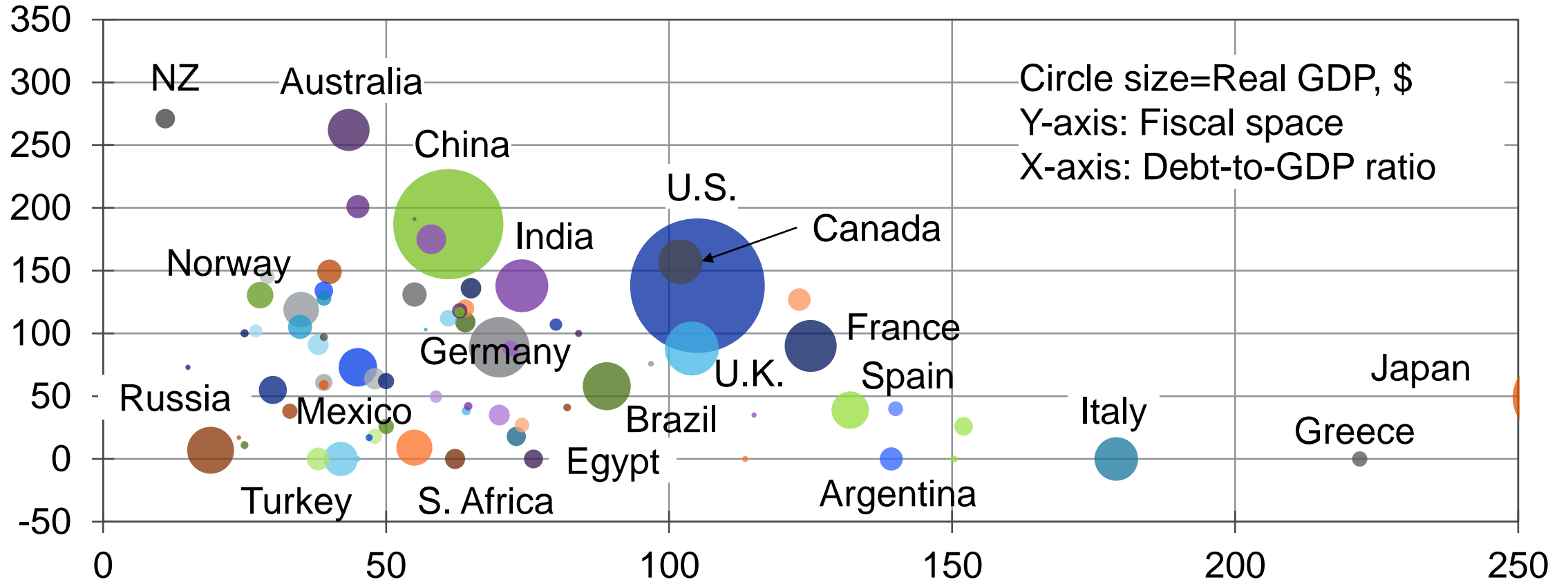
Economy-wide price earnings multiple, %



Sources: SIX Financial, BEA, Moody's Analytics

Running Out of Fiscal Space

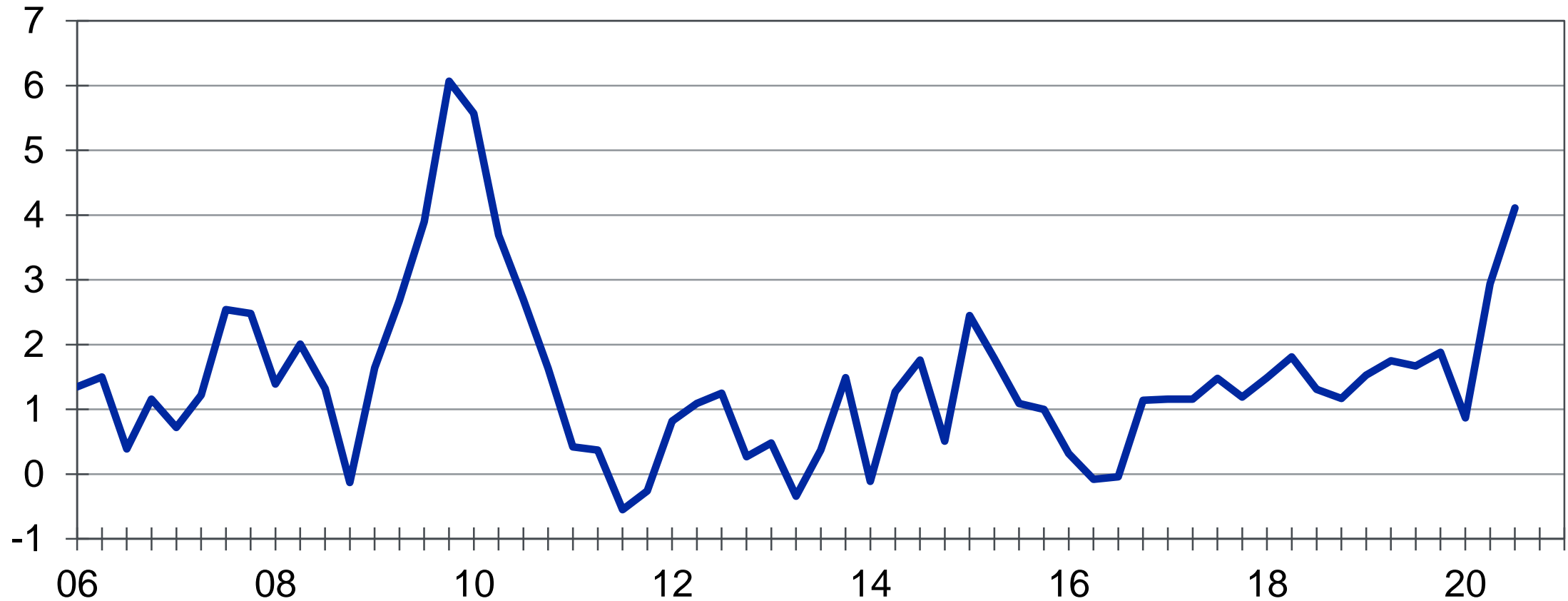
Sovereign borrowing capacity given current yields



Source: Moody's Analytics

Productivity Surges in Pandemic

Labor productivity growth, % chg yr ago



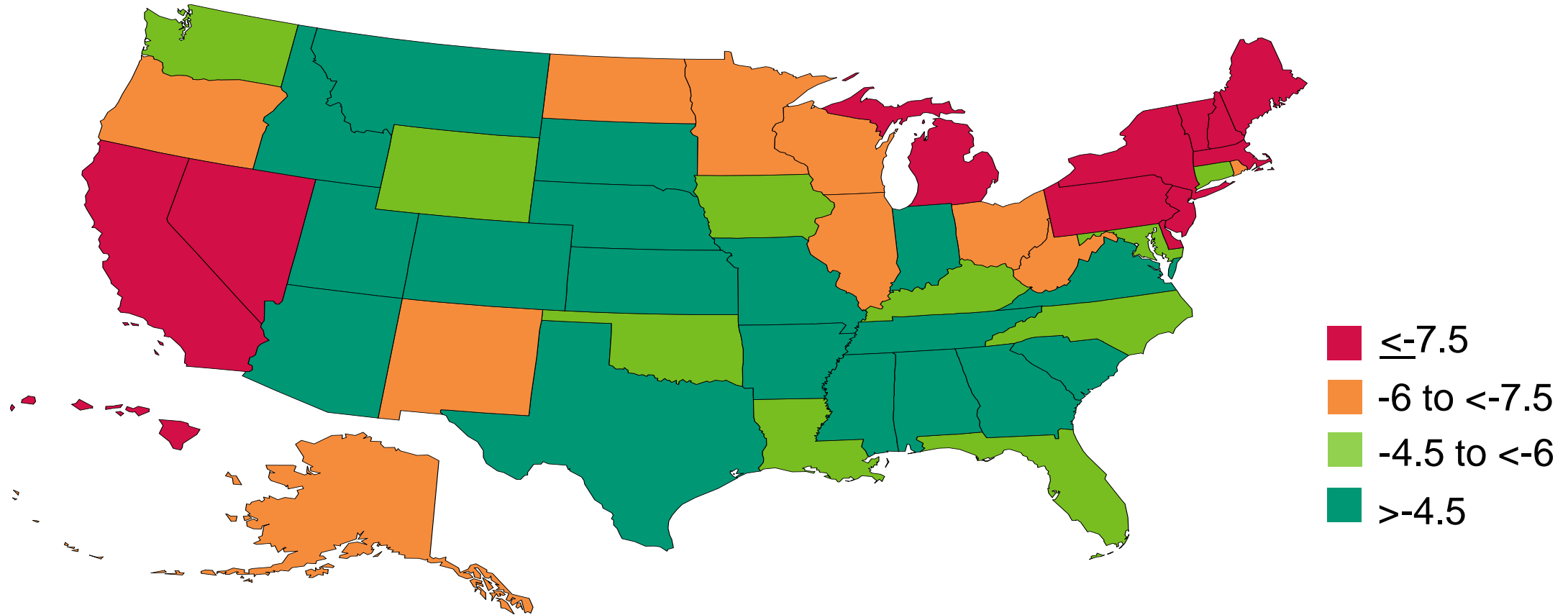
Sources: BLS, Moody's Analytics

2

Regional Economic Outlook

Northeast, California, Tourism Hubs Are Still Hurting

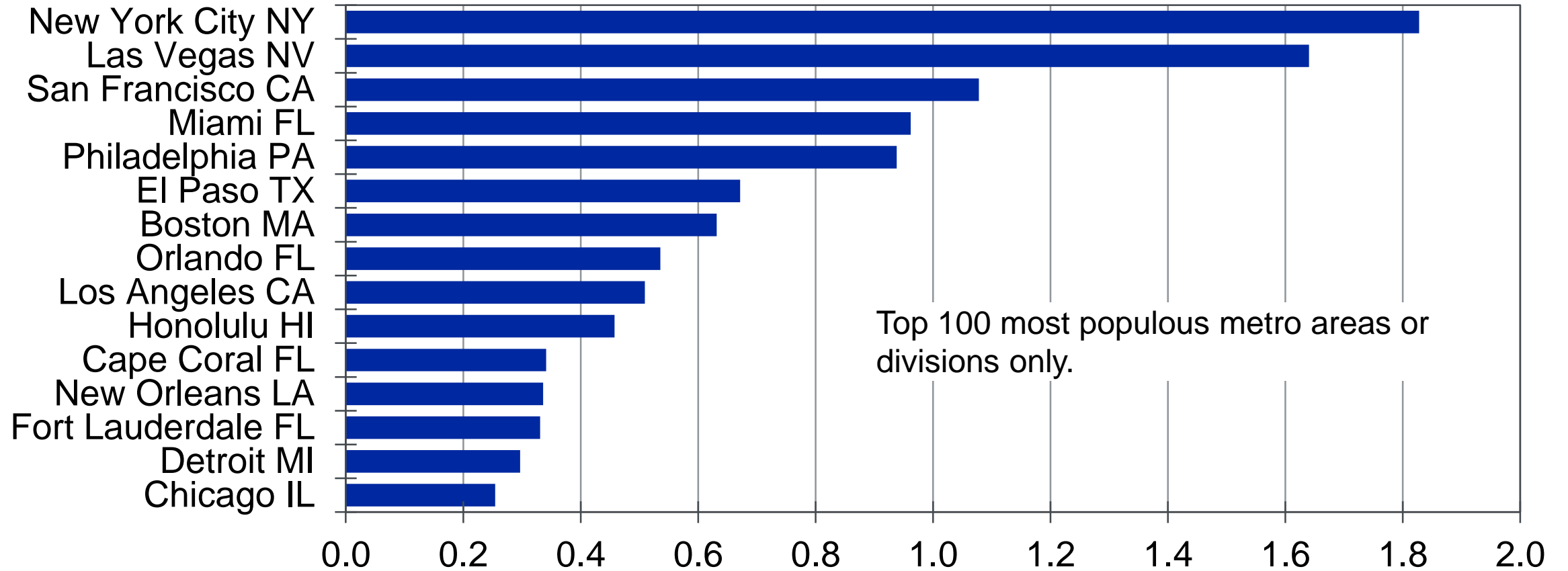
Payroll employment, 3-mo MA, % chg yr ago



Sources: BLS, Moody's Analytics

Big Coastal Cities Face Greatest Obstacles

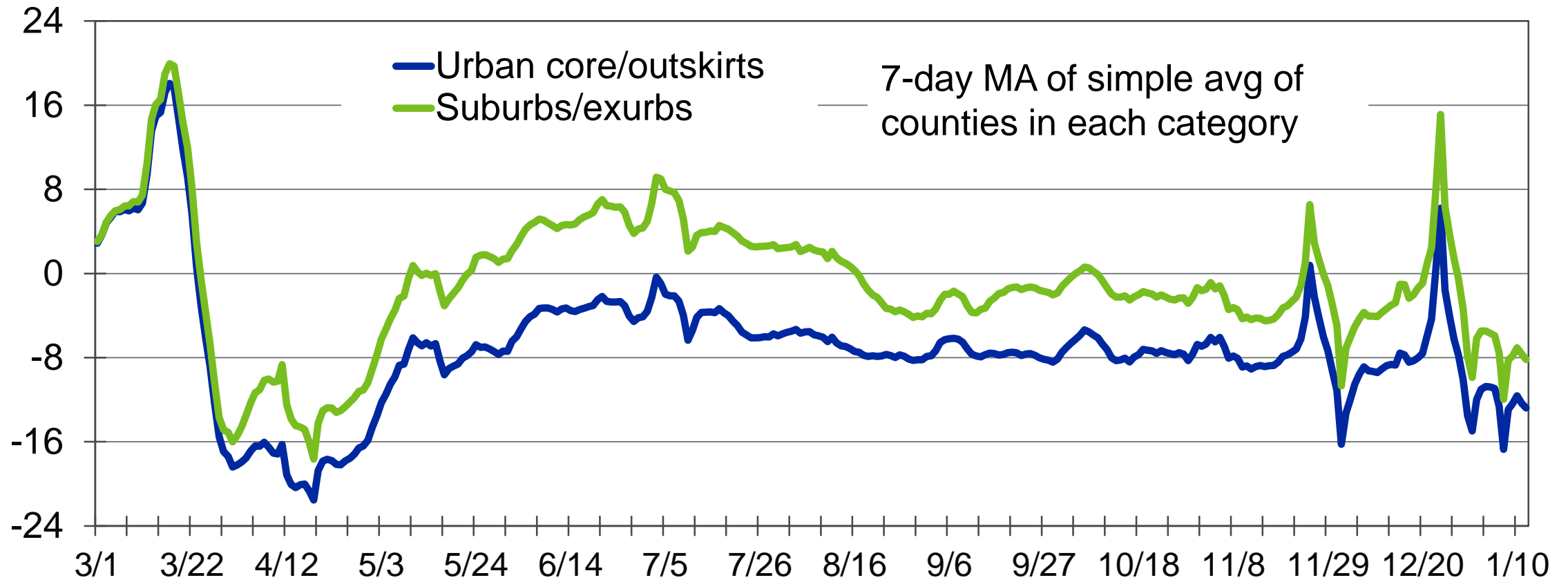
COVID-19 economic exposure score, Jan 2021, 0=U.S. avg



Source: Moody's Analytics

Some Residents Shift Away From Urban Centers...

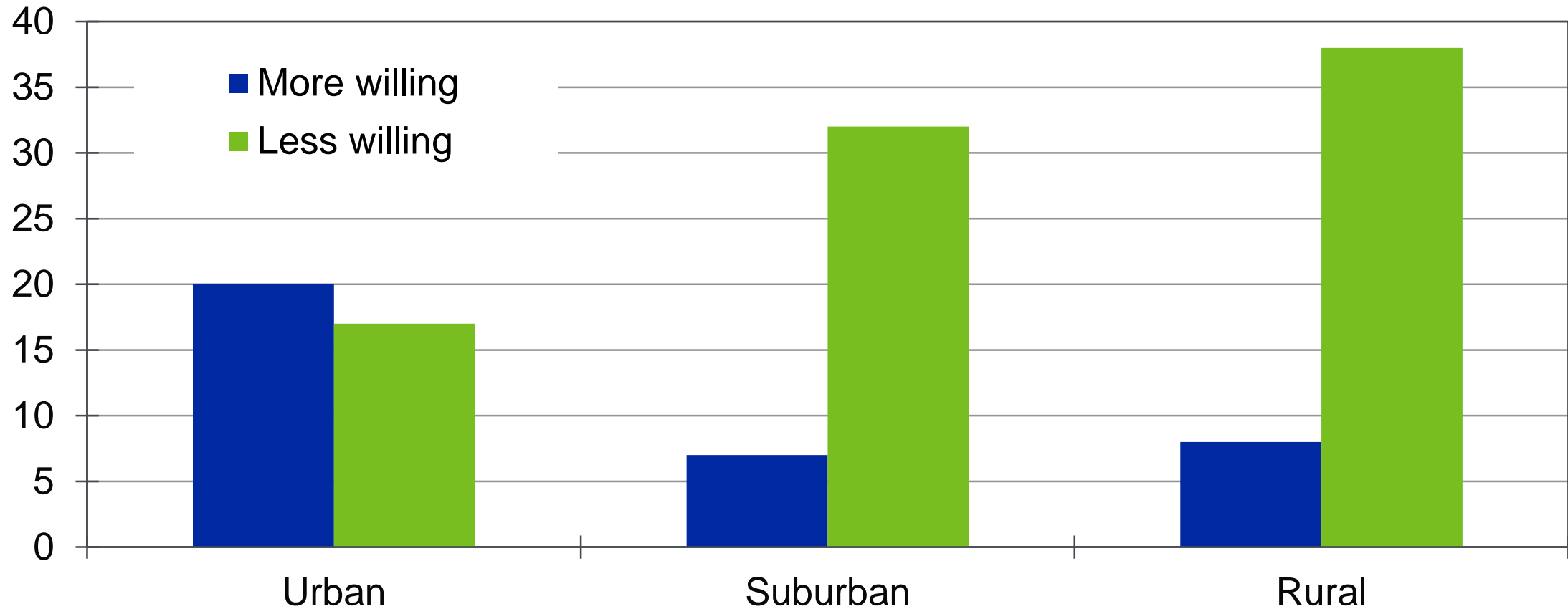
Grocery/pharmacy mobility score, % change since 1/3/20-2/6/20



Sources: Google, Census Bureau, Moody's Analytics

...But Many City-Dwellers Remain Undeterred

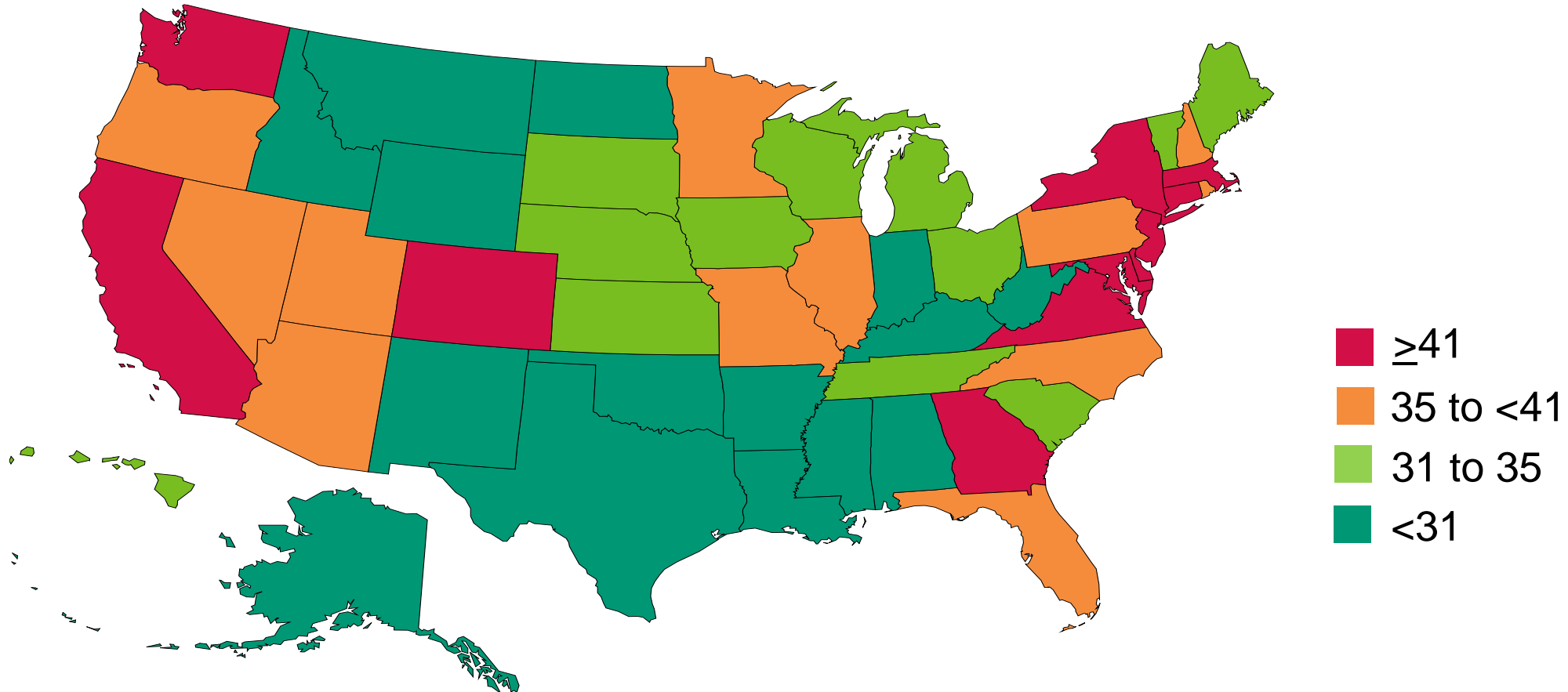
Willingness to move to urban area based on current community, %



Sources: Morning Consult, Moody's Analytics

Private White-Collar Jobs Are a Double-Edged Sword

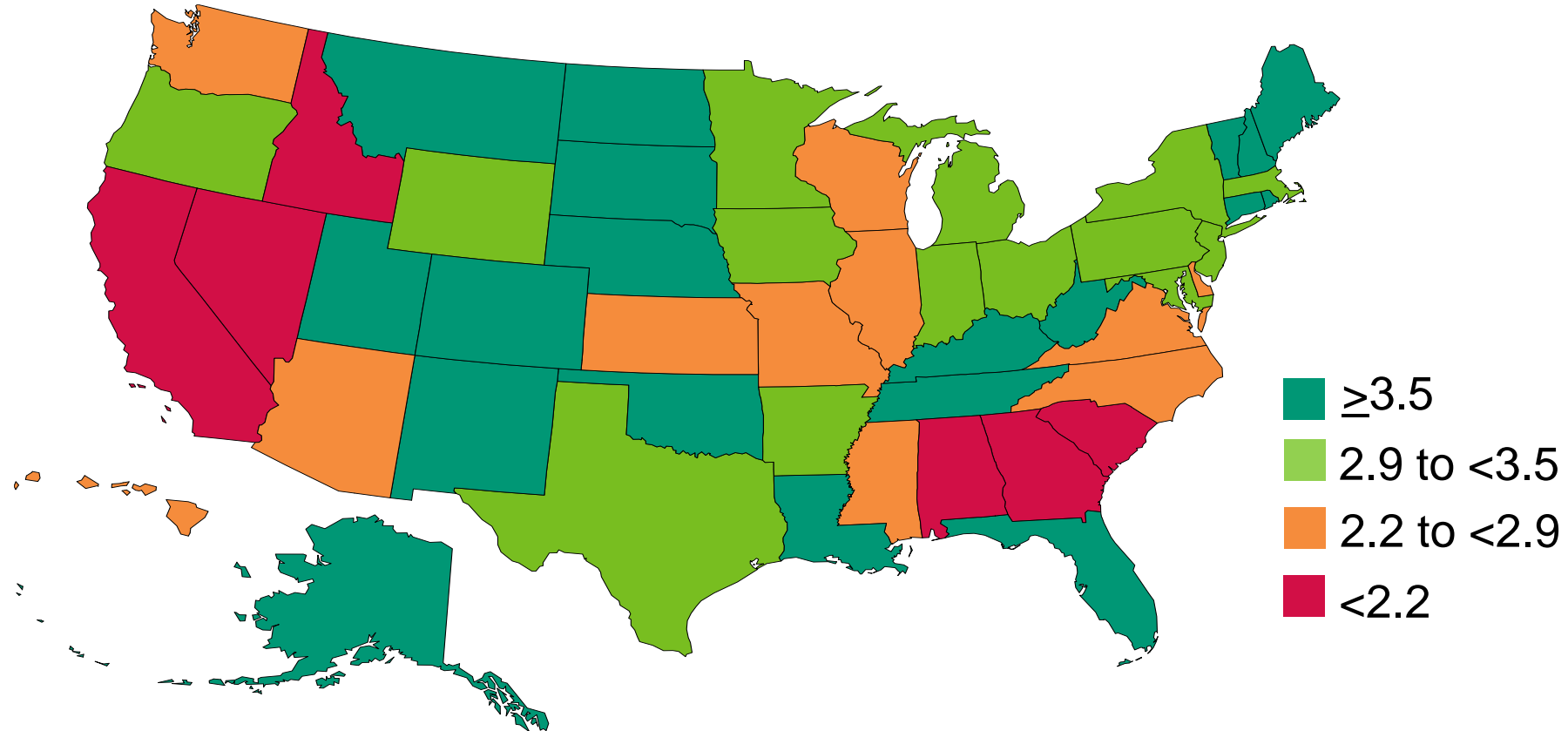
Share of output associated with information, finance, and professional services, 2019, %



Sources: BEA, Moody's Analytics

Vaccines Are Falling Behind in Southeast, West

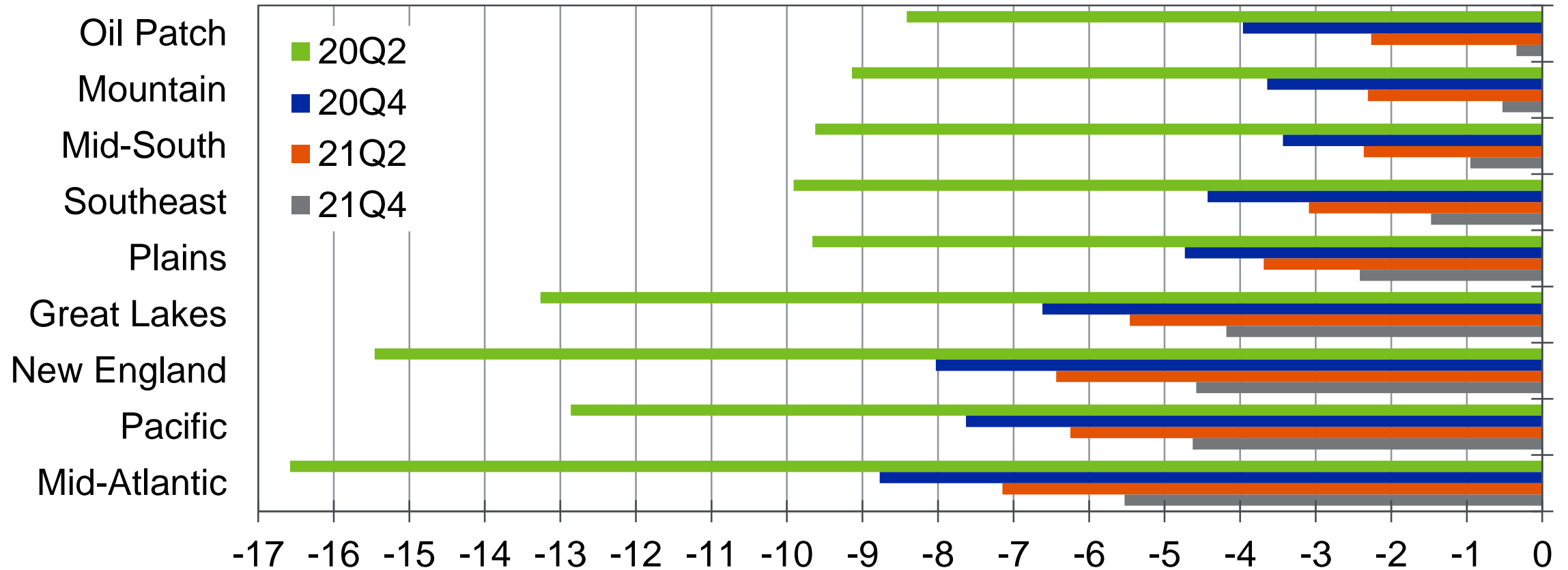
Share of residents who have received COVID-19 vaccine as of Jan 19, %



Sources: CDC, Moody's Analytics

Scars Will Persist Along the Coasts

Employment in office-using industries, % chg from 19Q4 to...



Sources: BLS, Moody's Analytics

Q&A

EMAIL US

help@economy.com

Contact Us: Economics & Business Analytics Offices

West Chester, EBA-HQ

+1.610.235.5299
121 North Walnut Street, Suite 500
West Chester PA 19380
USA

New York, Corporate-HQ

+1.212.553.1653
7 World Trade Center, 14th Floor
250 Greenwich Street
New York, NY 10007
USA

London

+44.20.7772.5454
One Canada Square
Canary Wharf
London E14 5FA
United Kingdom

Toronto

416.681.2133
200 Wellington Street West, 15th Floor
Toronto ON M5V 3C7
Canada

Prague

+420.22.422.2929
Washingtonova 17
110 00 Prague 1
Czech Republic

Sydney

+61.2.9270.8111
Level 10
1 O'Connell Street
Sydney, NSW, 2000
Australia

Singapore

+65.6511.4400
6 Shenton Way
#14-08 OUE Downtown 2
Singapore 068809

Shanghai

+86.21.6101.0172
Unit 2306, Citigroup Tower
33 Huayuanshiqiao Road
Pudong New Area, 200120
China

© 2021 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/OR ITS CREDIT RATINGS AFFILIATES ARE MOODY'S CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES, AND MATERIALS, PRODUCTS, SERVICES AND INFORMATION PUBLISHED BY MOODY'S (COLLECTIVELY, "PUBLICATIONS") MAY INCLUDE SUCH CURRENT OPINIONS. MOODY'S INVESTORS SERVICE 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 OR IMPAIRMENT. SEE MOODY'S RATING SYMBOLS AND DEFINITIONS PUBLICATION FOR INFORMATION ON THE TYPES OF CONTRACTUAL FINANCIAL OBLIGATIONS ADDRESSED BY MOODY'S INVESTORS SERVICE CREDIT RATINGS. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK, INCLUDING BUT NOT LIMITED TO: LIQUIDITY RISK, MARKET VALUE RISK, OR PRICE VOLATILITY. CREDIT RATINGS, NON-CREDIT ASSESSMENTS ("ASSESSMENTS"), AND OTHER 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. AND/OR ITS AFFILIATES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS DO NOT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS DO NOT COMMENT ON THE SUITABILITY OF AN INVESTMENT FOR ANY PARTICULAR INVESTOR. MOODY'S ISSUES ITS CREDIT RATINGS, ASSESSMENTS AND OTHER OPINIONS AND PUBLISHES ITS 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, ASSESSMENTS, OTHER OPINIONS, AND 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, ASSESSMENTS, OTHER OPINIONS OR 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.

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND 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 its 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 CREDIT RATING, ASSESSMENT, 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 credit rating, agreed to pay to Moody's Investors Service, Inc. for credit ratings opinions and services rendered by it fees ranging from \$1,000 to approximately \$2,700,000. MCO and Moody's investors Service also maintain policies and procedures to address the independence of Moody's Investors Service credit ratings and credit rating processes. Information regarding certain affiliations that may exist between directors of MCO and rated entities, and between entities who hold credit ratings from Moody's Investors Service and have also publicly reported to the SEC an ownership interest in MCO of more than 5%, is posted annually at www.moody.com 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.

Additional terms for Japan only: Moody's Japan K.K. ("MJJK") 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 MJJK. 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. MJJK 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.

MJJK 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 MJJK or MSFJ (as applicable) have, prior to assignment of any credit rating, agreed to pay to MJJK or MSFJ (as applicable) for credit ratings opinions and services rendered by it fees ranging from JPY125,000 to approximately JPY250,000,000.

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