## Anirban Basu & The Chamber of Data



Photo: Fandom

Toward the Post-Pandemic World

## By: Anirban Basu MPP, MA, JD, PhD Sage Policy Group, Inc.

### On Behalf of The Mid-Atlantic CIO Forum

December 16<sup>th</sup>, 2021

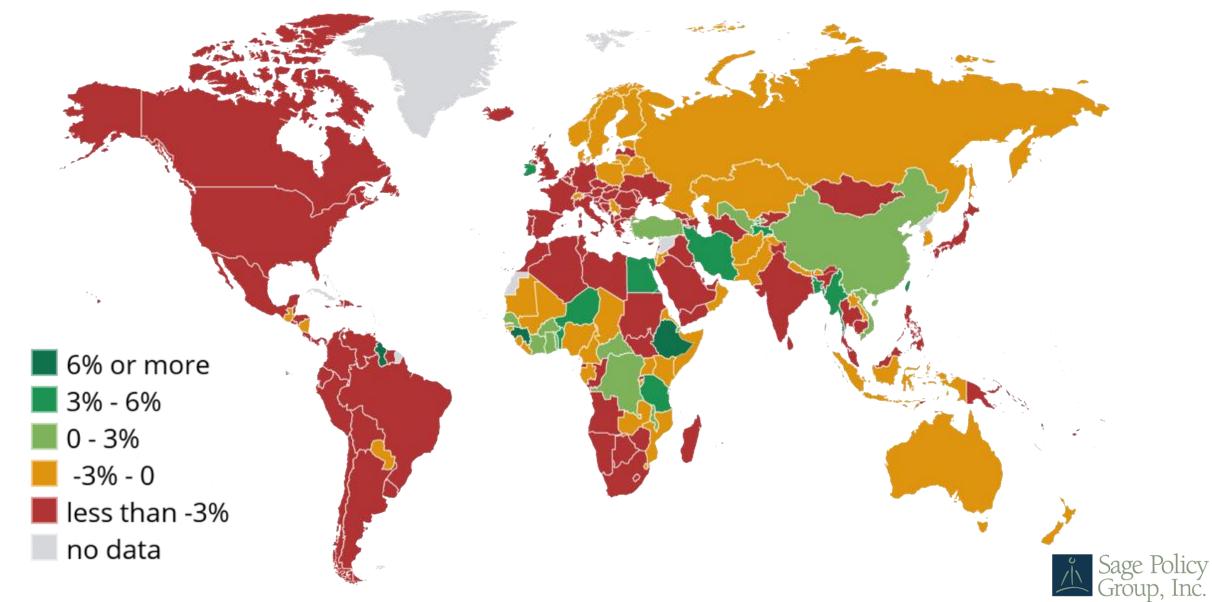


# The Prisoner of My-house-kaban





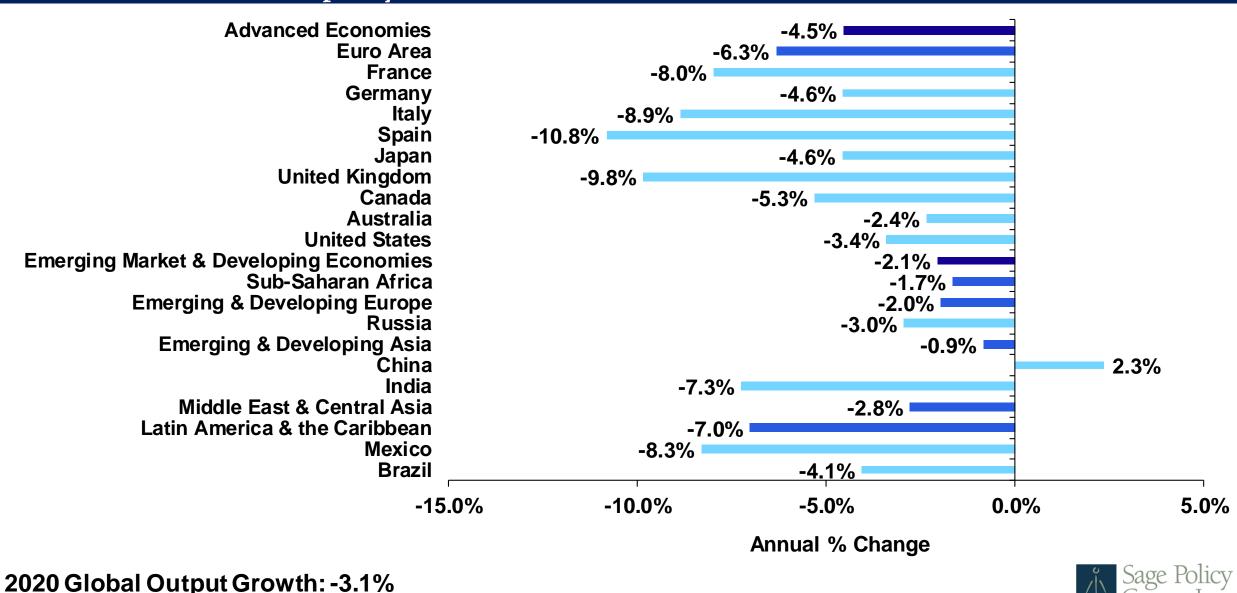
#### A Global Economy Transfigured Real GDP Growth 2020, Estimated Annual Percent Change



Source: International Monetary Fund, World Economic Outlook Database, October 2021

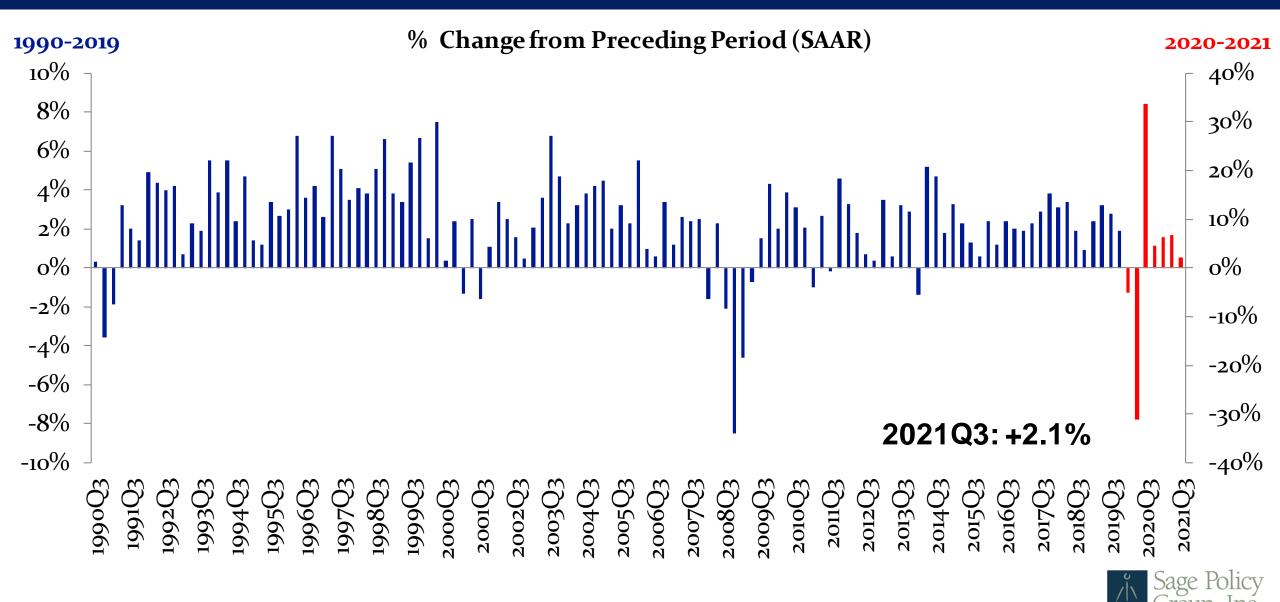
#### **Economicus Destructus!**

#### Estimated Growth in Output by Select Global Areas, 2020



Source: International Monetary Fund, World Economic Outlook Database, October 2021

#### Gross Domestic Product 1990Q3 – 2021Q3\*



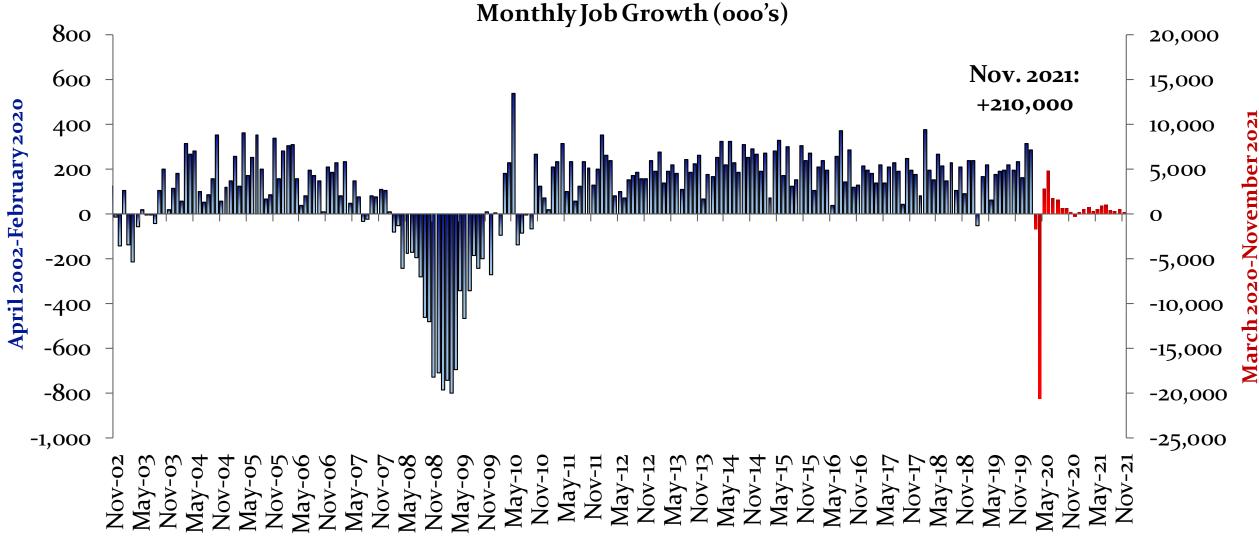
## The Goblet of Lost Jobs





Photo: Harrypotterfanzone.com

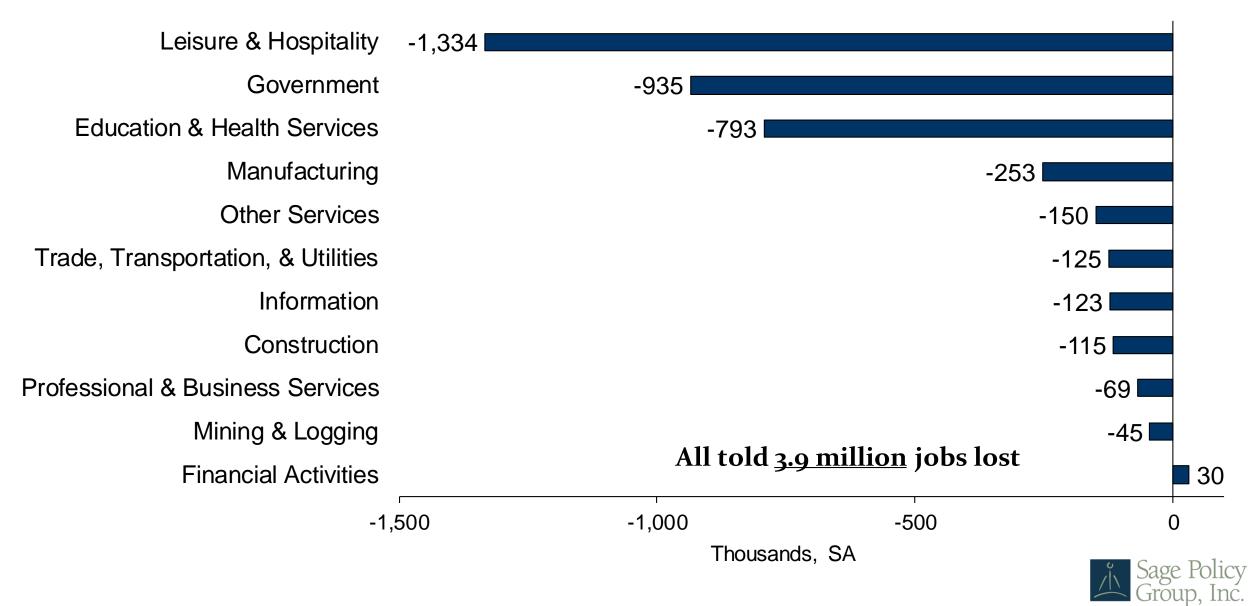
#### Net Change in U.S. Jobs November 2002 – November 2021





Source: U.S. Bureau of Labor Statistics

#### **U.S. Nonfarm Employment by Industry Sector** February 2020 v. November 2021



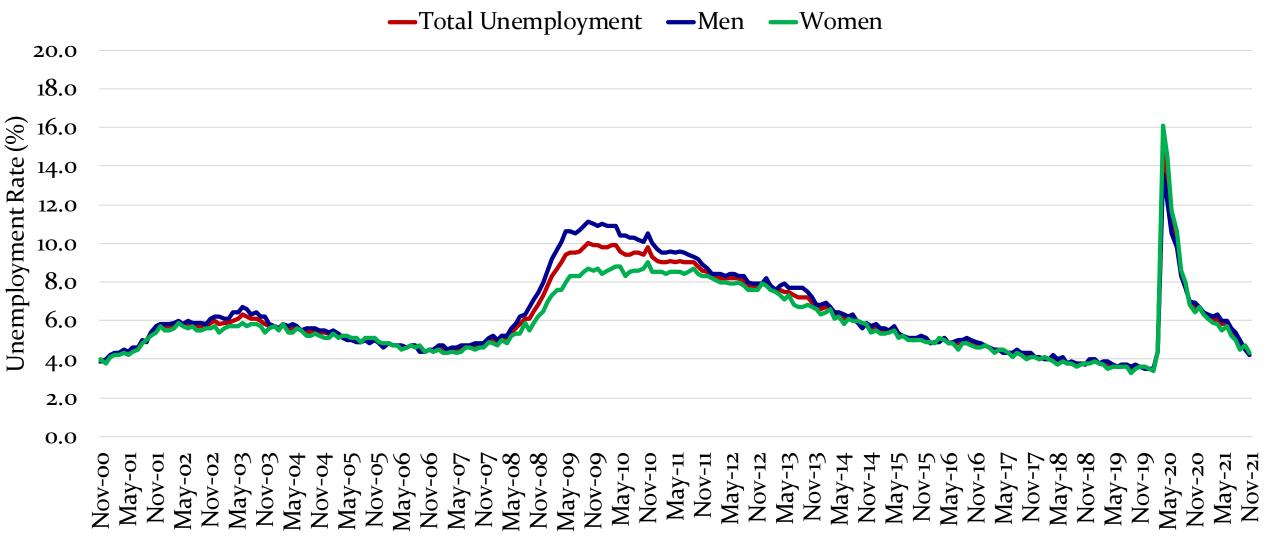
### **Employment Growth, 25 Largest Metros (NSA)** *February 2020 v. October 2021 Percent Change*

Rank	MSA	%	Rank	MSA	%
1	Phoenix-Mesa-Scottsdale, AZ	1.2%	13	Detroit-Warren-Dearborn, MI	-2.9%
2	Dallas-Fort Worth-Arlington, TX	1.0%	13	Houston-The Woodlands-Sugar Land, TX	-2.9%
3	San Antonio-New Braunfels, TX	0.9%	15	Chicago-Naperville-Elgin, IL-IN-WI	-3.0%
3	Tampa-St. Petersburg-Clearwater, FL	0.9%	15	St. Louis, MO-IL	-3.0%
5	Denver-Aurora-Lakewood, CO	-0.1%	17	Boston-Cambridge-Nashua, MA-NH	-3.2%
6	Atlanta-Sandy Springs-Roswell, GA	-1.0%		Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	-3.2%
6	Charlotte-Concord-Gastonia, NC-SC	-1.0%	19	Minneapolis-St. Paul-Bloomington, MN-WI	-3.3%
8	Riverside-San Bernardino-Ontario, CA	-1.6%	20	Miami-Fort Lauderdale-West Palm Beach, FL	-4.0%
8	Seattle-Tacoma-Bellevue, WA	-1.6%	21	San Diego-Carlsbad, CA	-4.7%
10	Baltimore-Columbia-Towson, MD	-1.9%	22	Los Angeles-Long Beach-Anaheim, CA	-5.9%
	Washington-Arlington-Alexandria, DC-VA-MD-WV	-2.1%	23	Orlando-Kissimmee-Sanford, FL	-6.1%
11			24	San Francisco-Oakland-Hayward, CA	-6.3%
12	Portland-Vancouver-Hillsboro, OR-WA	-2.3%		New York-Newark-Jersey City, NY-NJ-PA	-6.4%

U.S. Percent Change: -2.7%

Sage Policy

#### **U.S. Unemployment Rate** November 2000 – November 2021





Source: U.S. Bureau of Labor Statistics

### **Unemployment Rates, 25 Largest Metros (NSA)** October 2021

Rank	MSA	%	Rank	MSA	%
1	Atlanta-Sandy Springs-Roswell, GA	2.4	13	Detroit-Warren-Dearborn, MI	4.5
2	Minneapolis-St. Paul-Bloomington, MN-WI	2.6	13	San Francisco-Oakland-Hayward, CA	4.5
3	Phoenix-Mesa-Scottsdale, AZ	3.2	15	Denver-Aurora-Lakewood, CO	4.6
3	St. Louis, MO-IL	3.2	15	Seattle-Tacoma-Bellevue, WA	4.6
5	Portland-Vancouver-Hillsboro, OR-WA	3.4	17	Boston-Cambridge-Nashua, MA-NH	4.7
6	Charlotte-Concord-Gastonia, NC-SC	3.6	18	Baltimore-Columbia-Towson, MD	4.9
7	Tampa-St. Petersburg-Clearwater, FL	3.8	19	Chicago-Naperville-Elgin, IL-IN-WI	5.1
0	Washington-Arlington-Alexandria, DC-VA-MD-WV	3.9	19	Philadelphia-Camden-Wilm., PA-NJ-DE-MD	5.1
8			21	San Diego-Carlsbad, CA	5.3
9	Miami-Fort Lauderdale-West Palm Beach, FL	4.0	22	Houston-The Woodlands-Sugar Land, TX	5.4
10	Dallas-Fort Worth-Arlington, TX	4.2	23	New York-Newark-Jersey City, NY-NJ-PA	6.3
11	San Antonio-New Braunfels, TX	4.3	23	Riverside-San Bernardino-Ontario, CA	6.3
12	Orlando-Kissimmee-Sanford, FL	4.4	25	Los Angeles-Long Beach-Anaheim, CA	7.1
-					

Source: U.S. Bureau of Labor Statistics, Current Employment Statistics (CES) Survey U.S. Unemployment Rate Oct: 4.6% Nov: 4.2%



# The Ministry Speaks





Photo: Warner Bros.; Fandom

#### COVID-19 Stimulus Packages I

- Coronavirus Aid, Relief, and Economic Security (CARES) Act (3/27/2020)
  - More than \$2T total
  - Direct payments to Americans: \$1,200
  - Extended/enhanced unemployment insurance program: \$600/week enhanced federal benefit
  - Loans and grants for small businesses: \$377B
  - Loans and grants for large businesses: \$510B
  - Direct aid to state/local governments: \$150B
  - Health care system: more than \$150B
- Paycheck Protection Program and Health Care Enhancement Act (4/24/2020): \$483B

- Consolidated Appropriations Act, 2021 (12/27/2020)
  - More than \$900B for coronavirus assistance
  - Direct payments to Americans: \$600
  - Extended/enhanced unemployment insurance program: \$300/week enhanced federal benefit
  - Rental assistance: \$25B and eviction moratorium extension
  - Loans and grants for small businesses: Approx. \$285B for Paycheck Protection Program; \$15B in grants for theaters and other live venues
  - Aid for schools and childcare: \$82B for K-12 schools and colleges; \$10B for childcare providers
  - SNAP: raises benefits by 15% for 6 months
  - Vaccine funding: \$28B for purchase and distribution of vaccine; \$20B to states for testing/contact tracing
  - Direct aid to state and local governments: No



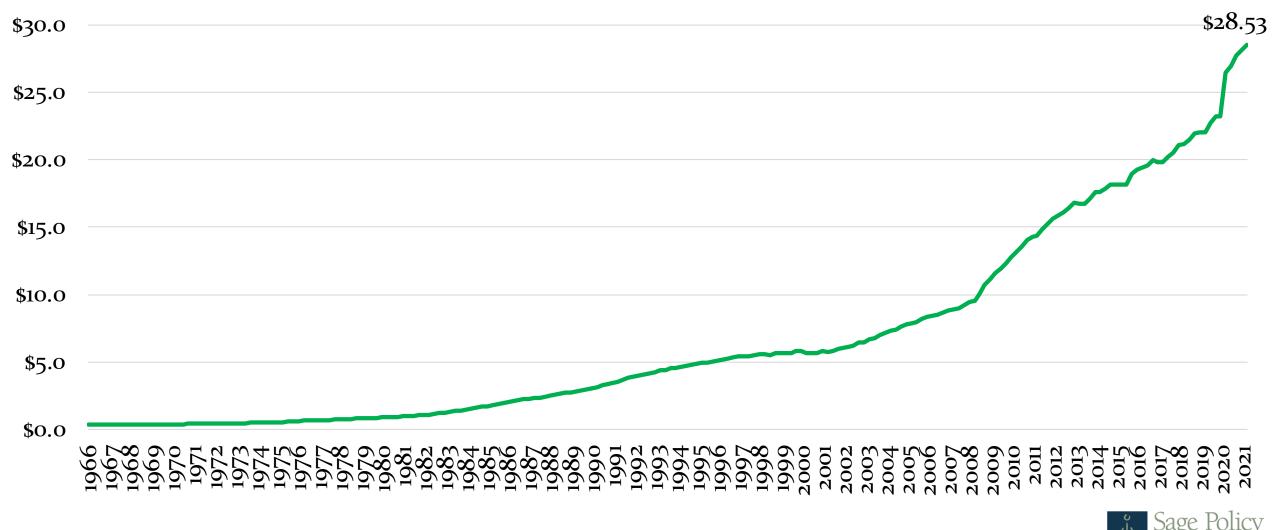
- Signed into law on 3/11/2021
- Total of **\$1.9 trillion**
- Direct payments to Americans: \$1,400
- Extended federal unemployment assistance: \$300/week
- Direct aid to state and local governments: ≈ \$350B
- Education: ≈ \$170B for K-12 schools and higher ed

- Small businesses: ≈\$49B in loans/grants for several programs for small businesses, restaurants/bars, and venue operators
- Public health: ≈ \$92B for COVID-19 vaccine, testing, and workforce efforts
- Tax provisions: expands/increases Child Tax Credit, Earned Income Tax Credit (EITC), dependent care tax credit, employee retention credit, and paid leave credits
- More: Nutrition assistance; housing aid; health insurance subsidies; changes to Medicaid/Medicare policy funding; aviation/railway/transit funding



#### Are We Being Dumbledore? U.S. Federal Debt (Total Public Debt), 1966 – 2021

#### Federal Debt: Total Public Debt (\$ Trillions)



# COVID's Commercial

Curse

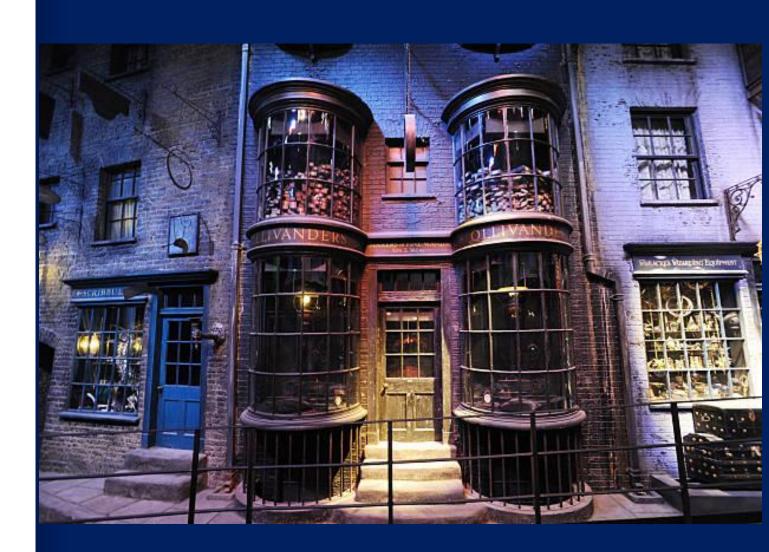




Photo: Warner Bros. Studio Tour/Google

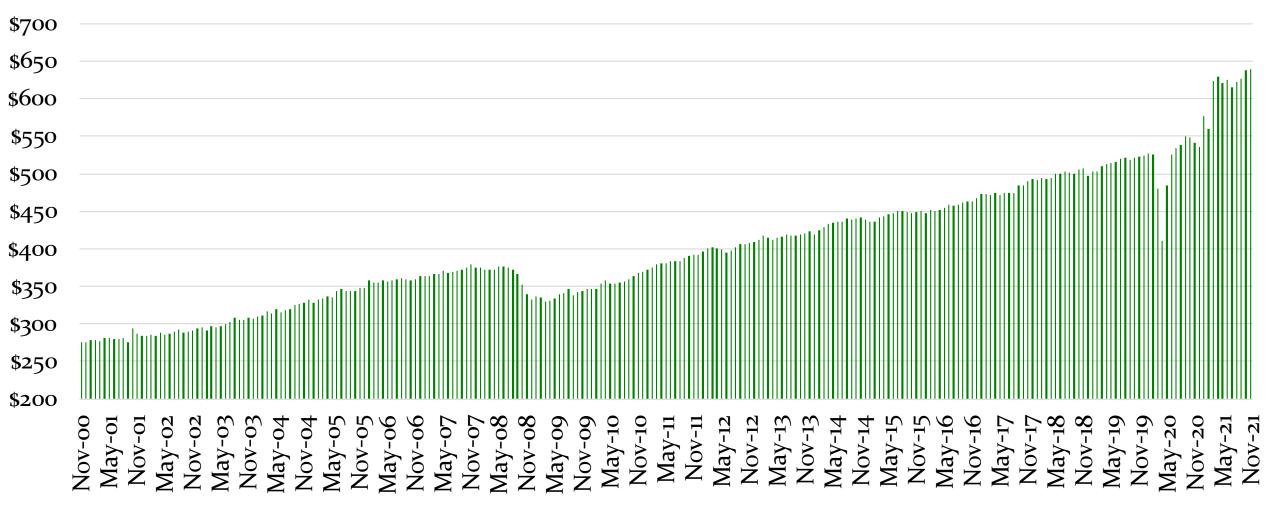
### Large Retail Bankruptcies in the U.S. in 2020

Retailer/Company	Date	Retailer/Company	Date	Retailer/Company	Date		
Francesca's	12/3/20	Brooks Brothers	7/8/20	Rubie's Costume Co.	4/30/20		
Guitar Center	11/21/20	Lucky Brand	7/3/20	Roots USA	4/29/20		
Furla	11/6/20	Old Time Pottery	6/28/20	N B L Textiles	4/24/20		
Furniture Factory Outlet	11/5/20	BHS Foodservice Solutions	6/26/20	True Religion	4/13/20		
Emerald Health Bioceuticals	10/20/20	GNC	6/23/20	Castella Imports	4/13/20		
Century 21	9/10/20	Fairn & Swanson	6/2/20	Donghia	3/30/20		
Interstate Commodities	8/26/20	Liftopia	6/2/20	CHIEF Supply	3/20/20		
Stein Mart	8/12/20	Libbey Glass	6/1/20	Paddle8	3/16/20		
Lord & Taylor	8/2/20	Tuesday Morning	5/27/20	Generation Zero Group	3/13/20		
Tailored Brands	8/2/20	Centric Brands	5/18/20	Modell's Sporting Goods	3/11/20		
Ascena	7/23/20	J.C. Penney	5/15/20	Bluestem Brands	3/9/20		
NTS W. USA	7/22/20	Stage Stores	5/10/20	Art Van Furniture	3/8/20		
Occasion Brands	7/22/20	Neiman Marcus	5/7/20	Pier 1 Imports	2/17/20		
The Paper Store	7/14/20	John Varvatos	5/6/20	The Worth Collection	2/14/20		
RTW Retailwinds	7/13/20	CD II Fashions	5/4/20	Must Cure Obesity	1/31/20		
Muji USA	7/10/20	J. Crew	5/4/20	Papyrus	1/23/20		
Sur La Table	7/8/20	J. Hilburn	4/30/20	Armadio	1/15/20		
Source: S&P Global Market Intelligence. Notes: I. S&P Global Market Intelligence's bankruptcy coverage is limited to public companies or private companies with public debt where either assets or liabilities at the time of bankruptcy filing are greater than or equal to \$2 million, or private companies where either assets or liabilities at the time of bankruptcy filing are greater than or equal to \$10							

Source: S&P Global Market Intelligence. Notes: I. S&P Global Market Intelligence's bankruptcy coverage is limited to public companies or private companies with public debt where either assets or liabilities at the time of bankruptcy filing are greater than or equal to \$2 million, or private companies where either assets or liabilities at the time of bankruptcy filing are greater than or equal to \$10 million.

#### **U.S. Retail Sales** November 2000 – November 2021

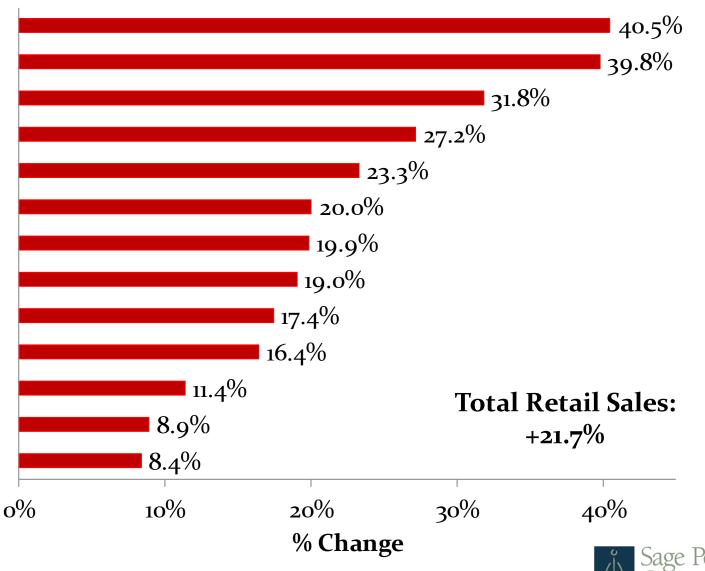
#### Retail Sales (\$Billions)





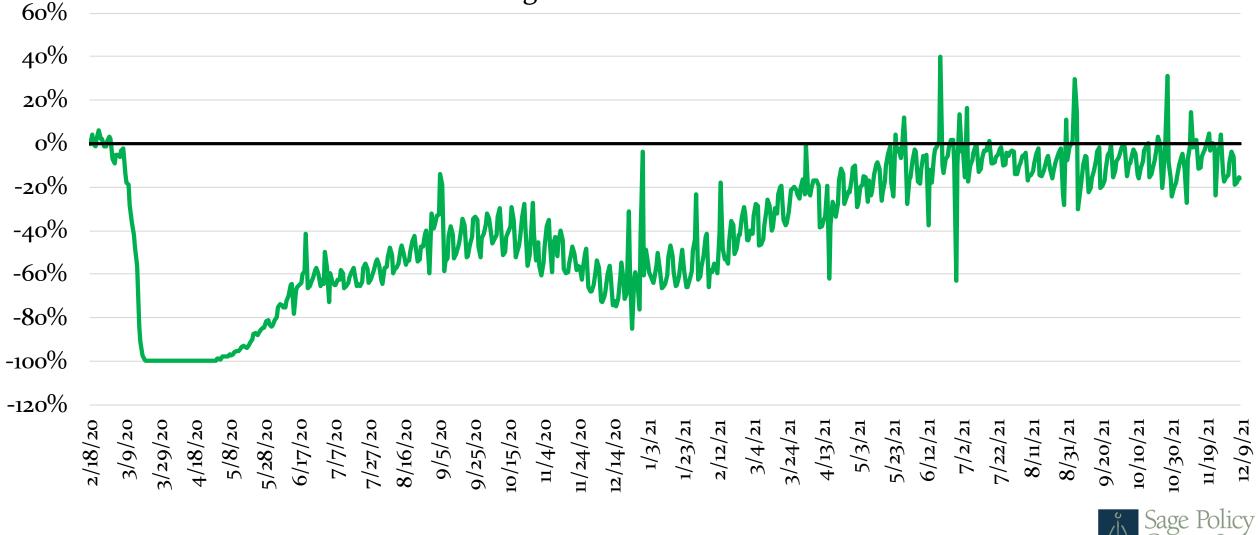
#### **U.S. Retail Sales by Type of Business** February 2020 v. November 2021 % Change

Internet, etc. Retailers Sporting Goods, Hobby, Book & Music Stores **Gasoline Stations** Miscellaneous Store Retailers Building Material & Garden Supplies Dealers Food & Beverage Stores Motor Vehicle & Parts Dealers Furniture & Home Furn. Stores Clothing & Clothing Accessories Stores General Merchandise Stores Food Services & Drinking Places Health & Personal Care Stores Electronics & Appliance Stores



#### **U.S. Restaurant Reservations (Seated Diners)** % Change Compared to 2019

% Change in Seated Reservations



## I'm in Ravenclaw House!





Photo: Clipartkey.com

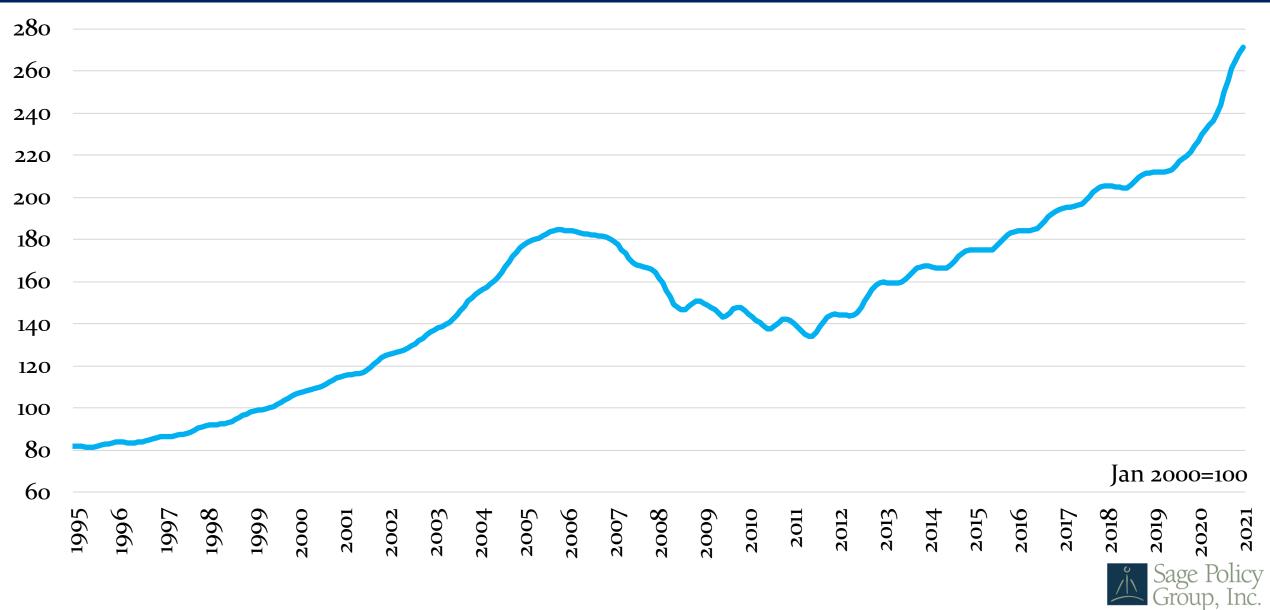
#### **I5-Year & 30-Year Fixed Mortgage Rates** December 1995 – December 2021\*



Source: Freddie Mac

## S&P Case-Shiller U.S. National Home Price Index

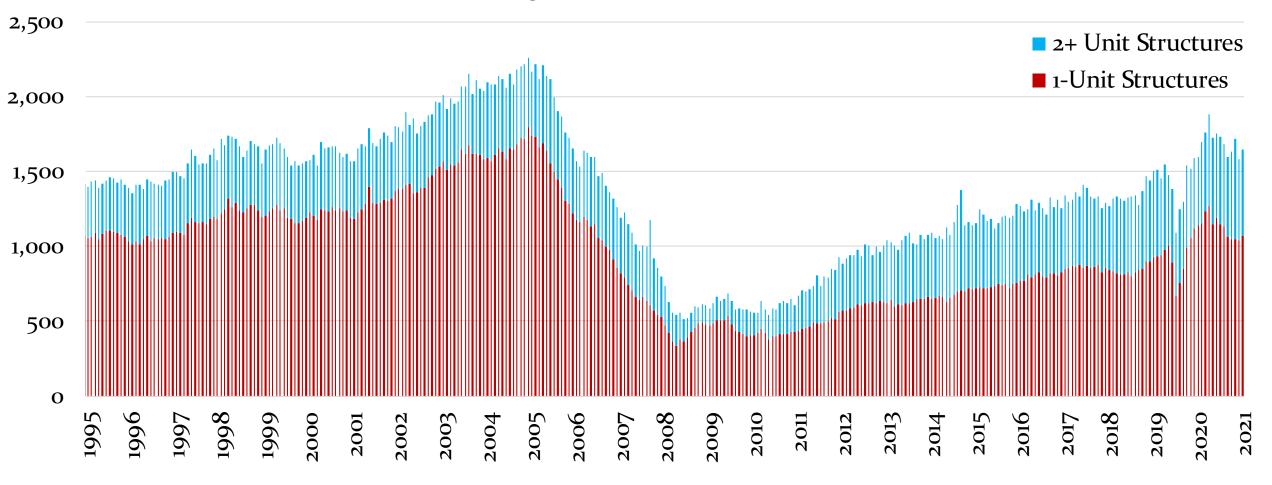
September 1995 – September 2021



Source: Standard & Poor's

#### U.S. Residential Building Permits October 1995 – October 2021

#### Building Permits (ooo's of Units)

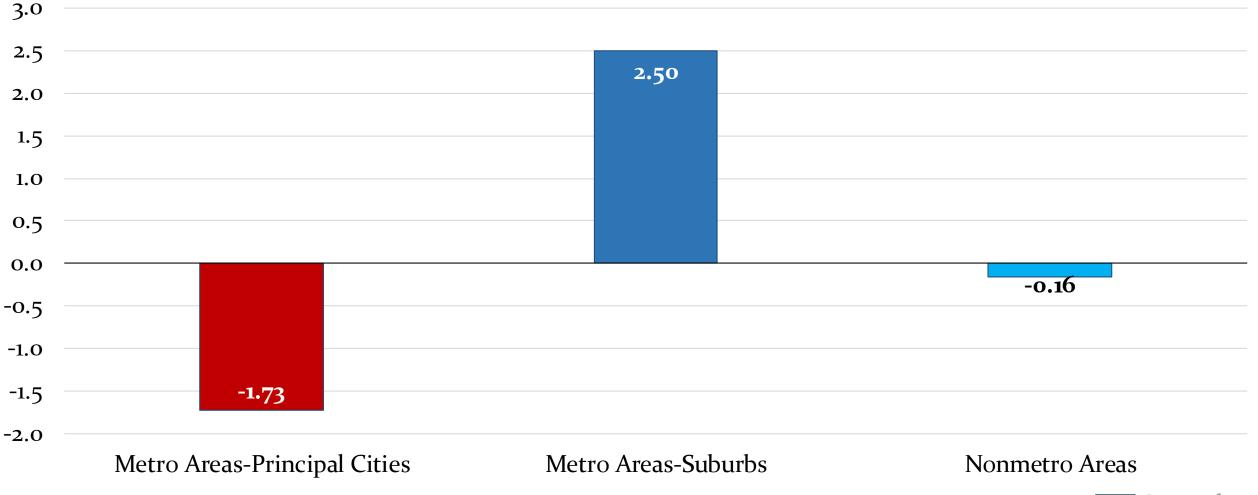




Source: U.S. Census Bureau

#### U.S. Net Migration in Metropolitan Areas, 2020 to 2021

#### 2020 to 2021 net migration including movers from abroad (millions)





Source: U.S. Census Bureau

#### **Observed Rent Declines in Major U.S. Cities** *Rent Changes in Select U.S. Cities, March to December 2020*

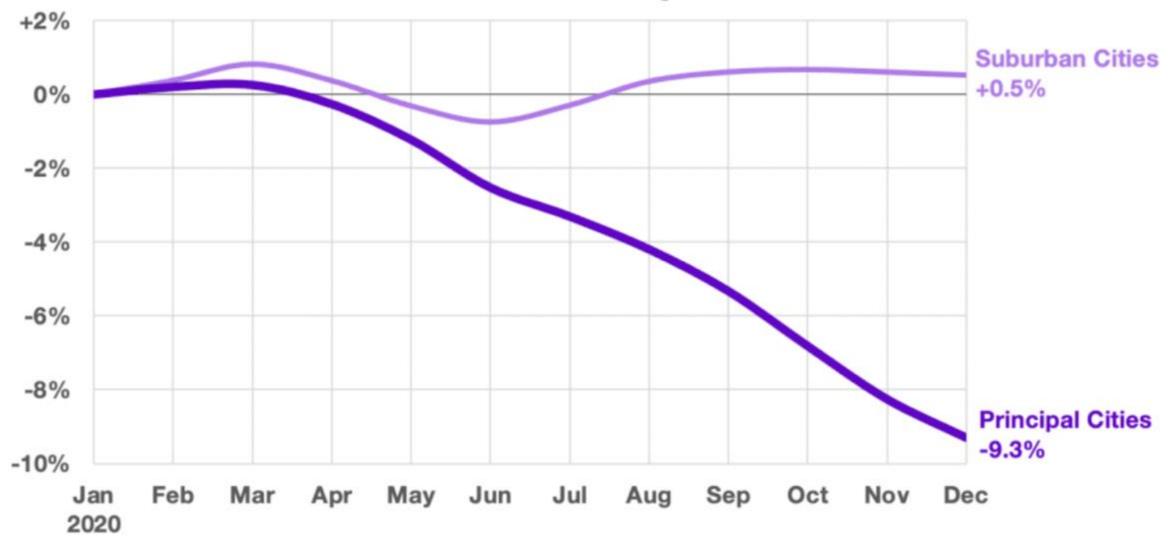
Largest Rent Declines/Increases among 50 largest U.S. cities by population						
City	Rent Growth	City	Rent Growth			
San Francisco, CA	-26.7%	Fresno, CA	7.9%			
Seattle, WA	-22.0%	Albuquerque, NM	7.1%			
Boston, MA	-20.6%	Memphis, TN	6.7%			
New York, NY	-19.9%	Tucson, AZ	6.1%			
Washington, DC	-15.3%	Virginia Beach, VA	5.7%			
San Jose, CA	-15.2%	Las Vegas, NV	5.2%			
Oakland, CA	-14.2%	Arlington, TX	4.7%			
Chicago, IL	-13.2%	Colorado Springs, CO	4.4%			
Minneapolis, MN	-12.8%	El Paso, TX	4.1%			
Los Angeles, CA	-7.9%	Tulsa, OK	4.0%			

Rent declines are concentrated in large, expensive markets, while in affordable midsize cities, rent growth accelerates...

Source: Apartment List



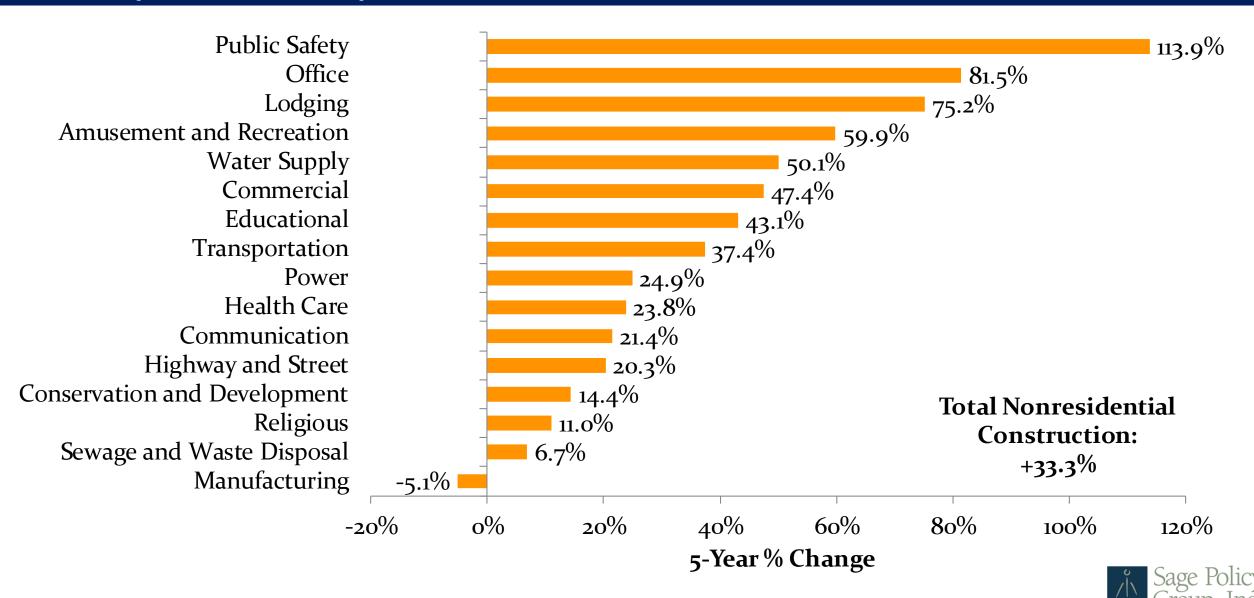
### **Observed Rent Declines in Cities v. Suburbs** *Cumulative Rent Change in 2020*



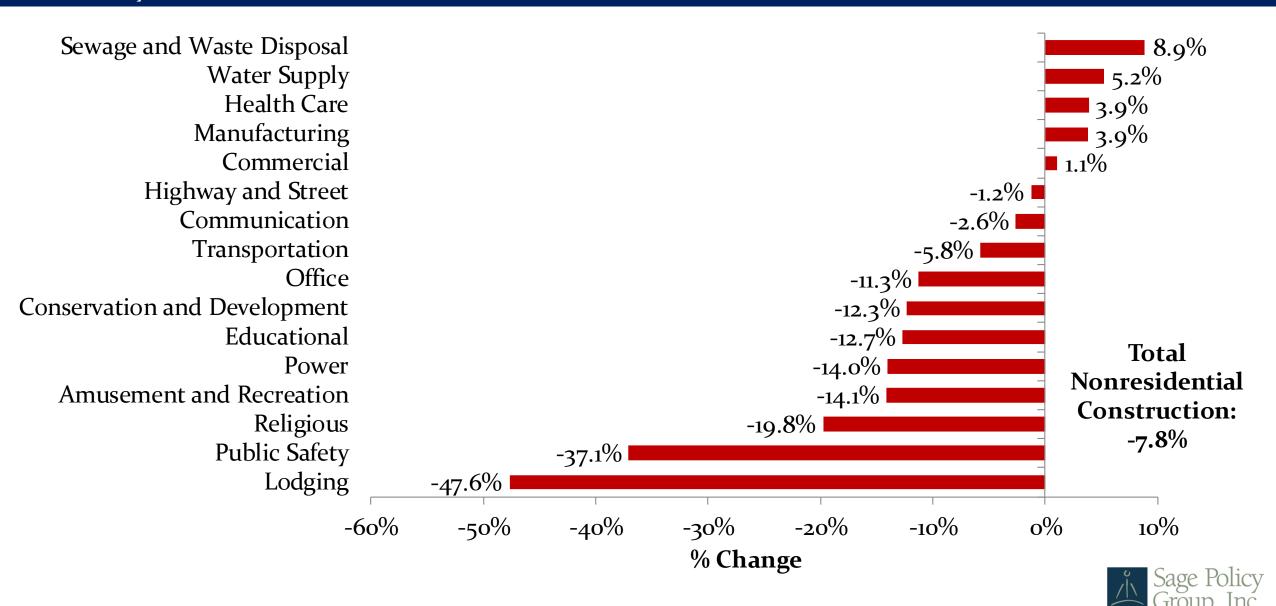


Source: Apartment List. Note: rent changes are population-weighted and aggregated across principal/suburban cities within a sample of 30 large metropolitan areas.

#### **Nonresidential Construction Spending by Subsector** February 2015 v. February 2020



#### **Nonresidential Construction Spending by Subsector** February 2020 v. October 2021

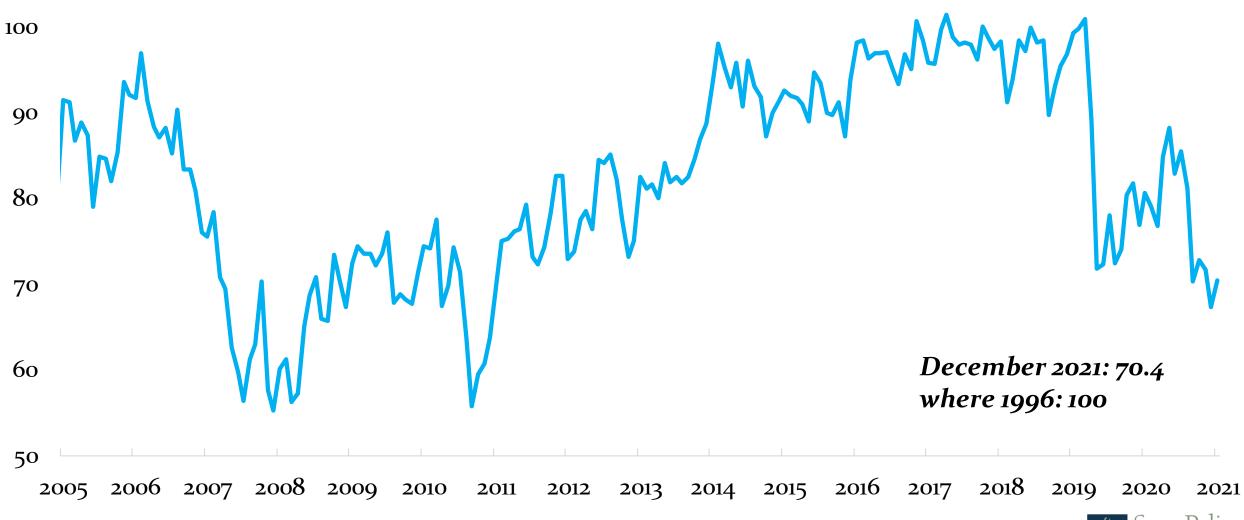


# The Crystal Ball





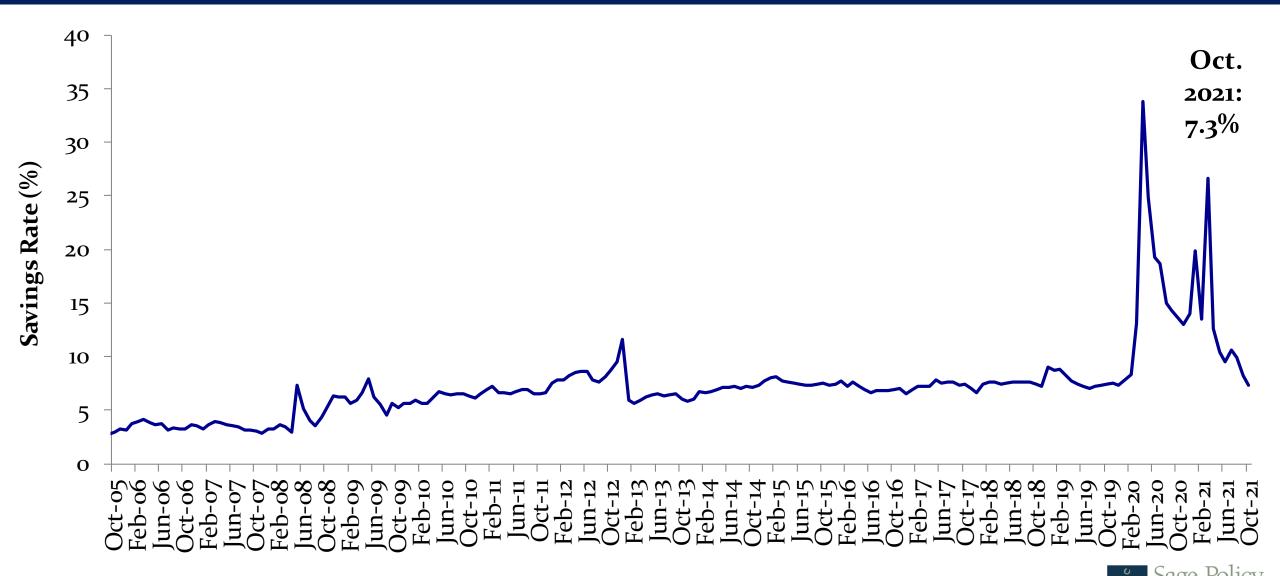
#### University of Michigan Index of Consumer Sentiment 2005 – 2021





Source: University of Michigan

#### U.S. Saving Rate, October 2005 – October 2021 (Savings as Percentage of Personal Disposable Income)



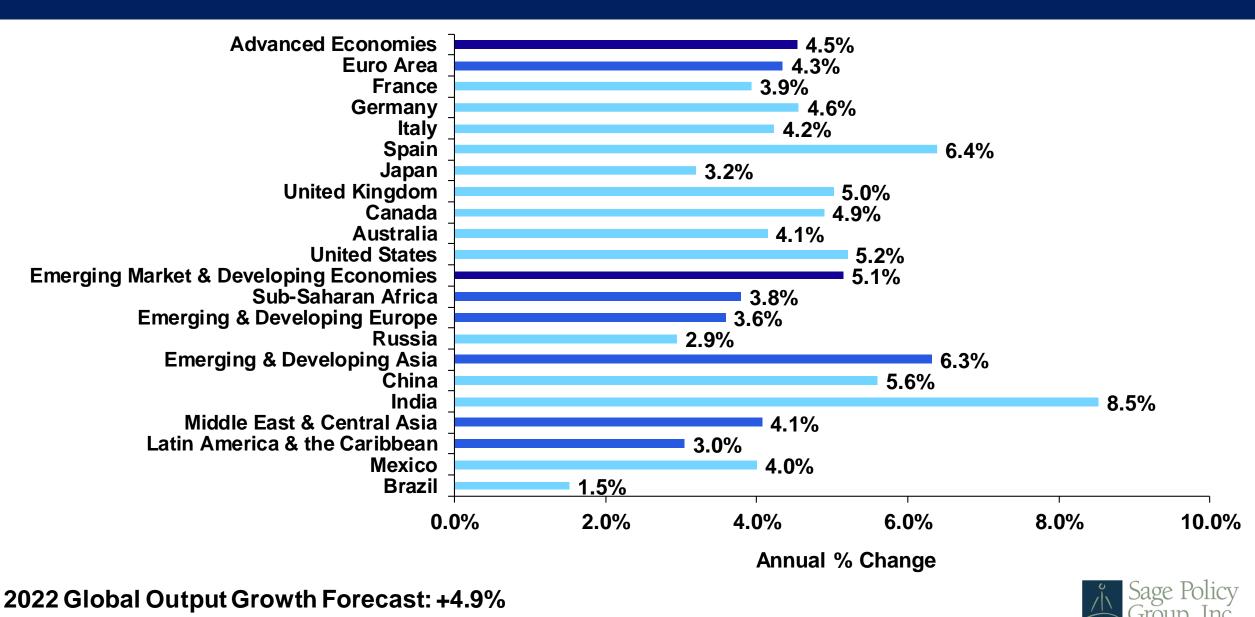
#### NFIB Index of Small Business Optimism: Good Time to Expand 1986 – 2021





Source: National Federation of Independent Business (NFIB)

#### Projected Growth in Output by Select Global Areas, 2022



#### Source: International Monetary Fund, World Economic Outlook Database, October 2021

## The Sorcerer's Outlook

- For an economy to flourish, both demand and supply sides of economy must participate.
- With ongoing stimulus, demand gets a further boost, but supply will be constrained by numerous factors, and not just in America.
- The result is that household savings will remain elevated, spring loading the economy for ongoing growth as supply chains continue to heal.
- The back half of 2021 should have been spectacular for economic growth now only Q4:2021 will be.
- And there will be a day of reckoning as deficit hawks come back into fashion, creating the possibility of greater austerity during the years ahead.



## Thank You

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