

# Agenda

### WHY U.S. GDP TRAJECTORY MATTERS

Trajectory of U.S. GDP

### KEY FACTORS SHAPING THE U.S. FORECAST

- Covid19 Pandemic and Resulting Recession
- Fiscal Policy
- Policies on Trade, Immigration, and Climate
- Structural Change
- Latest Data
- Forecast for GDP and Interest Rates

#### FLORIDA FORECAST

- Population and Employment Growth
- State General Fund Budget

#### IMPLICATIONS FOR FEFP MEMBERS

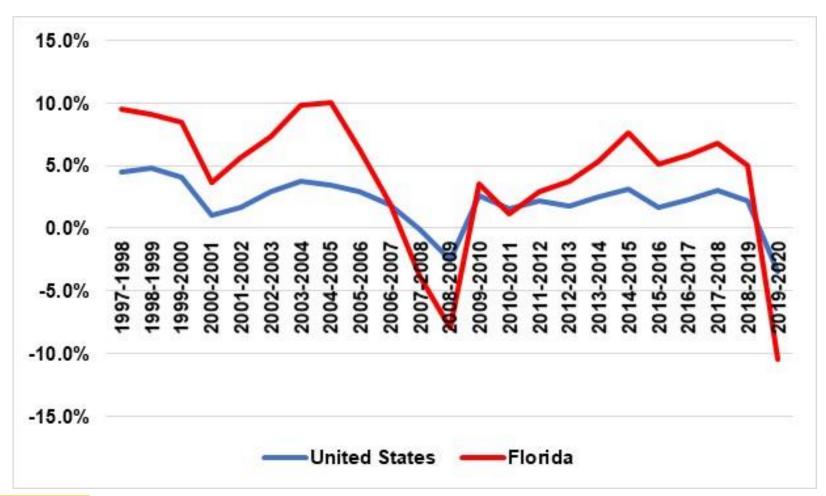
- Demographic changes
- Cost impacts



# Why U.S. GDP Trajectory Matters

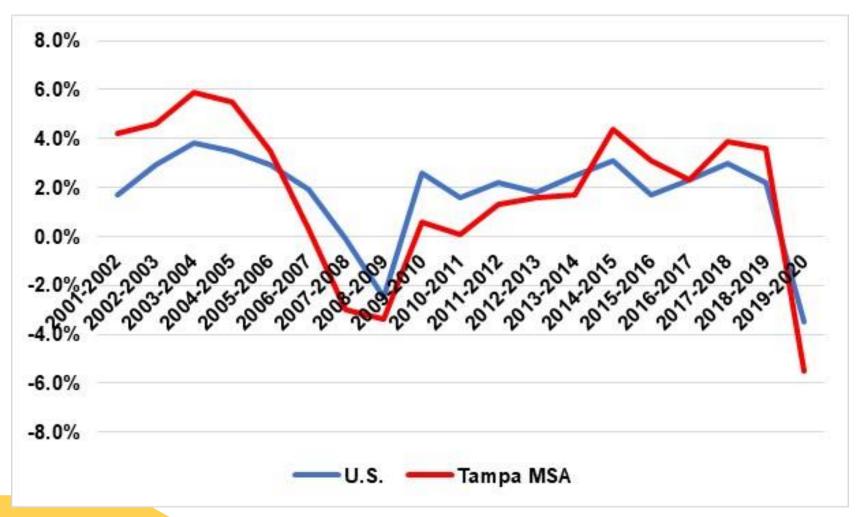


## Trajectory of Growth in Real GDP and Florida GSP Correlation = 0.9





## Trajectory of Growth in Real GDP and Tampa MSA GRP Correlation = 0.9



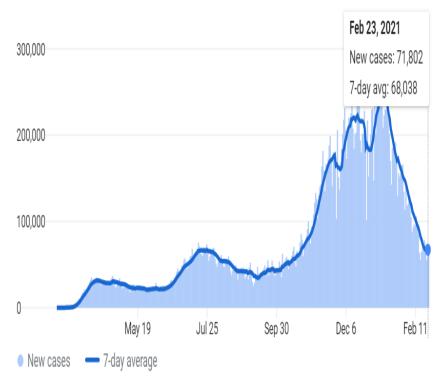


# **Covid19 Pandemic and Recession**



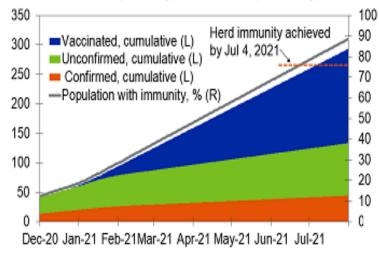
## **Status of the Pandemic**

Vaccination rates accelerating rapidly – up to 2 million / day until recent storm disruptions



### Herd Immunity by Summer

L=confirmed cases (100k/day); vaccinations (1.6mil/day)



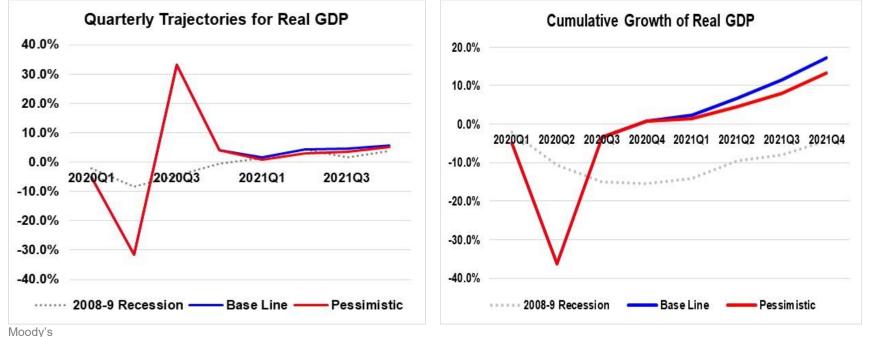
Sources: Johns Hopkins CSSE COVID-19 Data Repository, Moody's Analytics

Sources: CDC and Johns Hopkins



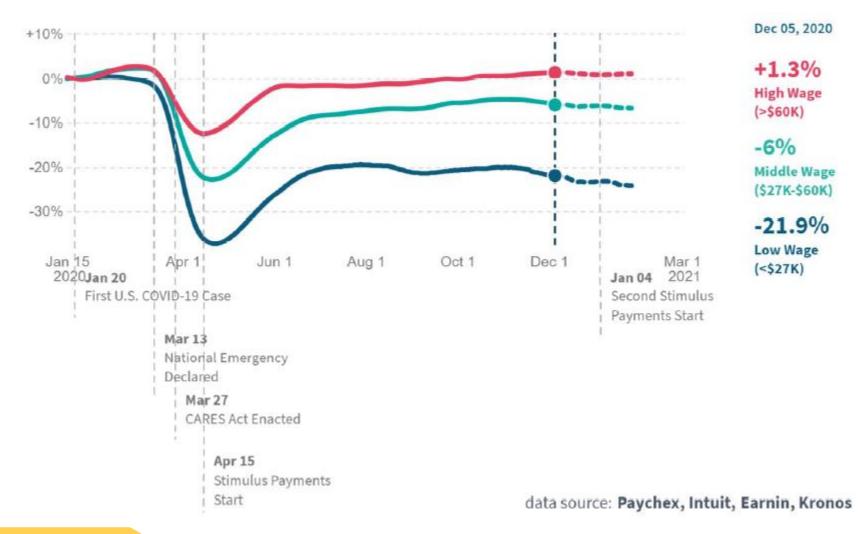
### How is this Cycle Different from Others?

- First services-sector based recession: (a) short duration; (b) deep drop; (c) magnified impact on jobs and income
- First "K" shaped recovery: (a) many were unscathed or even benefitted but (b) many others devastated
- Pandemic accelerated major structural changes



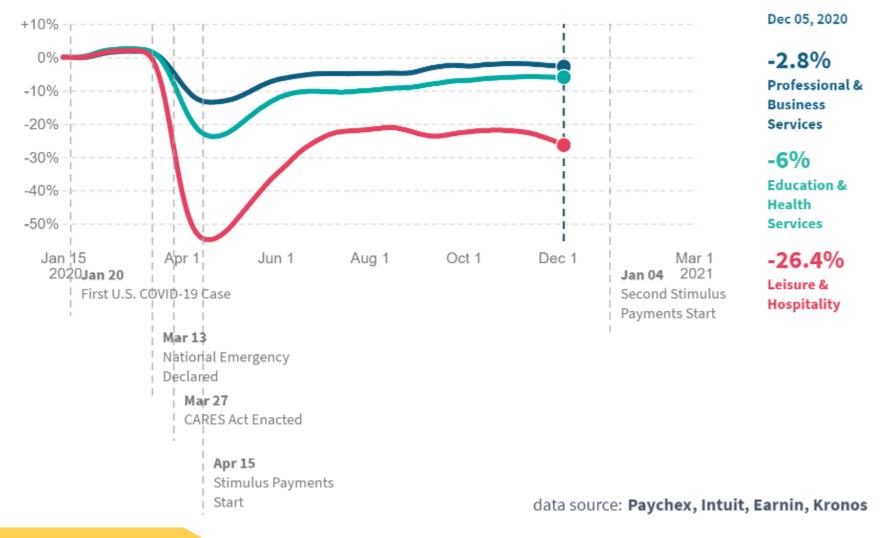


## K-Recovery - % Change in Employment by Income



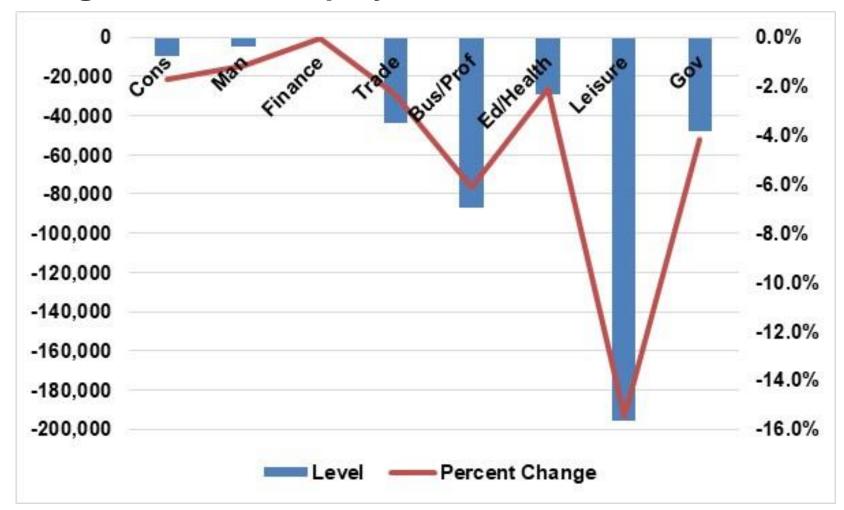


## K-Recovery % Change in Employment By Sector in U.S.





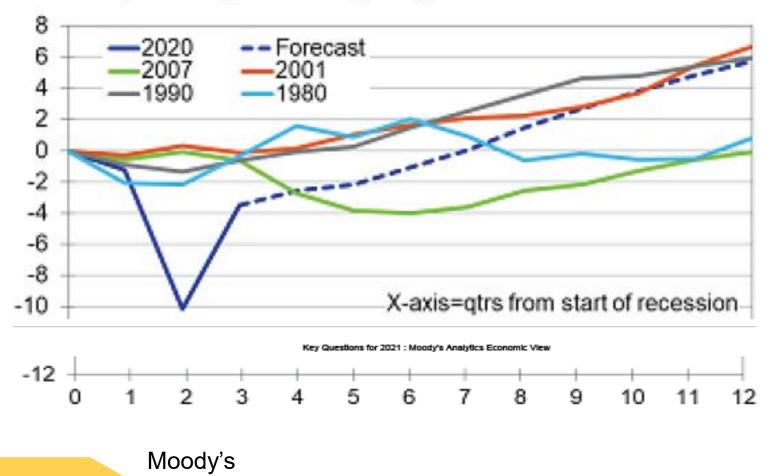
## **Change in Florida Employment YOY – December 2020**



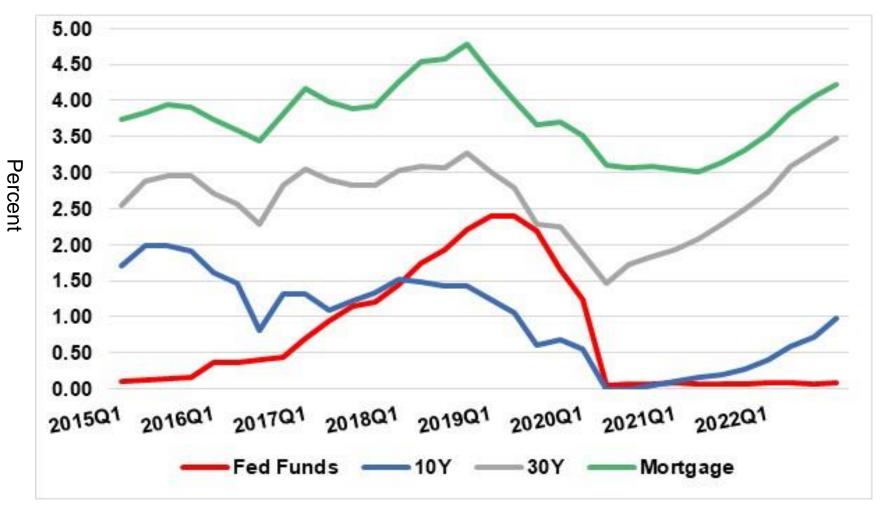


### **Growth in Real GDP**

## Real GDP, % change since beginning of recession







Source: Moody's Economy.com,



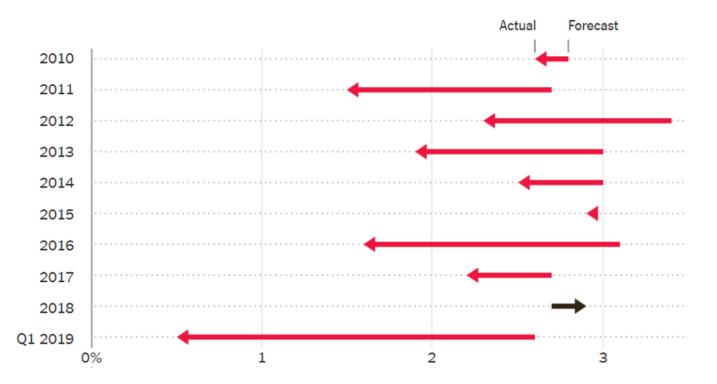
# **Fiscal Policy Outlook**



# Why is it Better to go too Big? Consistently Overestimated Growth Since 2010

### Irrational Exuberance

Real G.D.P. growth, in percent, compared with the consensus forecast two years in advance.



#### Source: Federal Reserve

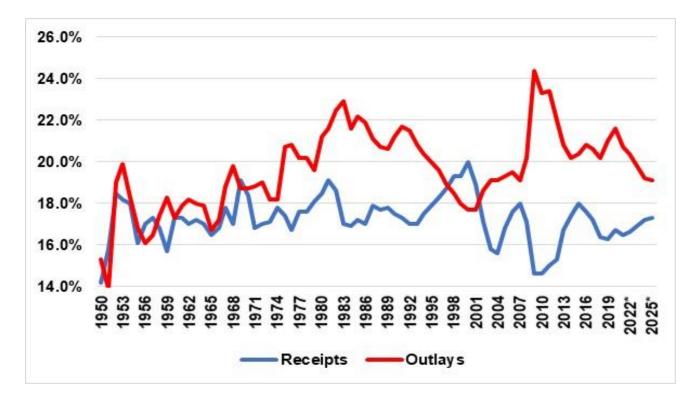


## Federal Outlays and Revenues as a % of GDP

Federal outlays averaged 20% of GDP

#### • Federal Revenues averaged 17% of GDP

This is a structural problem not a cyclical problem



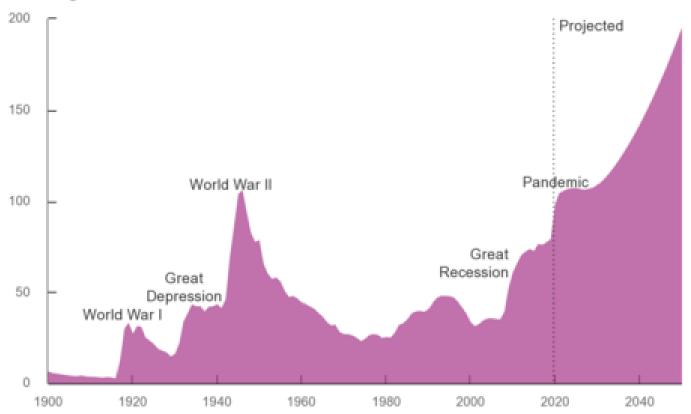
Source: OMB



## **Federal Debt**

### Federal Debt Held by the Public, 1900 to 2050

Percentage of Gross Domestic Product



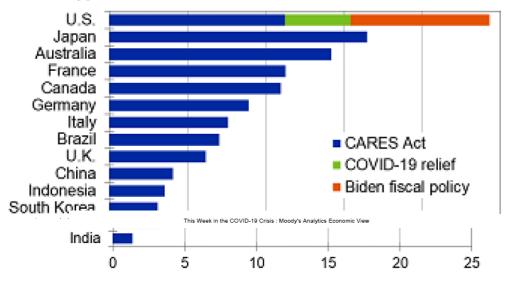
Source: OMB https://www.cbo.gov/publication/56516



## How will Democrats' Control of Congress Affect the Economy?

- Congress will approve another \$2 T package bringing total to \$5.2 T
  - 25% of GDP
  - · More than any other country
  - \$1,400 / person
  - Aid for state & local governments
- Biden fiscal policy stimulative
- Boost GDP growth > 5% 2021
  & 22
- Interest rates will rise
- Modest increase in inflation
- National debt not a problem in Moodyse short-run

Fiscal support, % of 2019 GDP



10-Year Bond rate will indicate when this is a problem



# **Policies on Trade, Immigration, & Climate**



# Policies on Trade, Immigration & Climate

Trade

- Maintaining tariffs while conducting comprehensive review
- Expect reductions over time and move towards freer trade
- But focus is on a "worker-centered trade policy"
- Immigration
  - Already reversed much of Trump's executive actions
  - Promoting comprehensive reform with pathway to citizenship
- Climate Policy
  - Rejoin Paris and reset ambitious goals
  - Federal government to set example with purchases and "buy America"
  - Rebuild infrastructure
  - Carbon neutral by 2050



# **Structural Change**

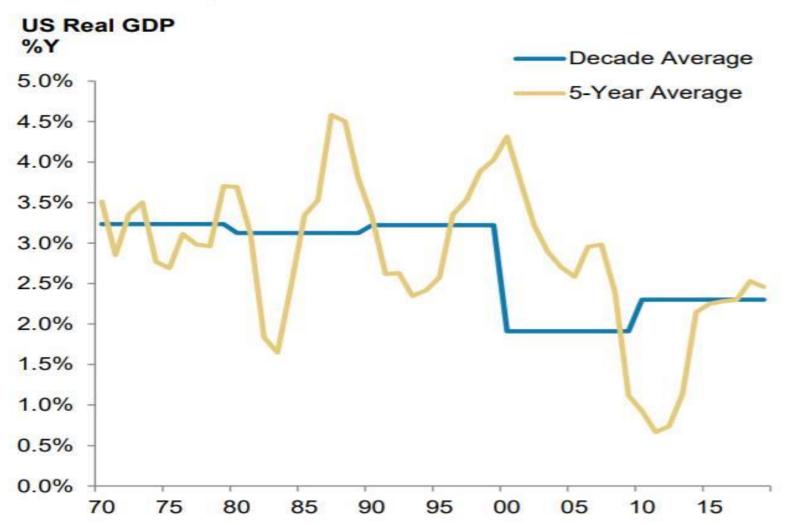


## History is a Good Guide to the Future – Until it is Not!

- "History doesn't repeat itself, but it often rhymes," ascribed to Mark Twain.
- Typically, true and useful.
- Unless there is structural change that no longer makes the history as useful.
- Substantial structural changes to U.S. economy have occurred over the last decade accelerated by the Covid19 Recession
  - Globalization
  - Expanded international trade
  - Fraking and expanded U.S. energy production
  - Artificial intelligence
  - Concentration of wealth
- Results: slower growth, lower inflation, and lower interest rates



## **Trend GDP growth has slowed**





### **Retail Space Demands Will Continue to Shrink at Accelerating Rate**

- Covid19 recession accelerates changes already underway
- Neighborhood centers resist shrinkage for now
- Other retail must adapt and become more of a compelling experience
- Huge excess supply of obsolete space available for re-use
- Need substantial reform of regulations to spur reuse

Retail	1980-2000	2000-19	Post Covid
Neighborhood	25	25	20
Community	15	7	3
Regional/Mall	10	5	1
	======	======	======
Total	50	37	24

### Average Supportable Space – Florida



## **Office Space Demand will Shrink Dramatically**

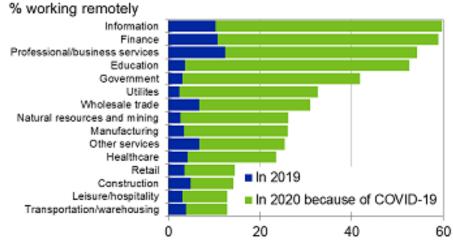
- Office space demand was already shrinking prior to Covid19
- Covid19 recession sharply accelerates this trend proved work from home can work
- Office space is typically the 3<sup>rd</sup> largest fixed cost for most businesses firms will economize
- Only the very best or the very cheapest will compete well
- Office configurations change substantially more room for team meetings and less for offices
- With more work from home offices located near higher valued homes will be favored
- Opportunities for adaptive reuse of office space and parking

Office	SqFt
1980-2000	250
2000-19	150
Post Covid	50-to-75



## **Work From Home Transformations**

- Work from home, works for many firms and many workers
- Premise expense typically 3<sup>rd</sup> largest business expense smaller foot prints



### COVID-19 Fueled Work From Anywhere

Sources: BLS, IPUMS, Moody's Analytics

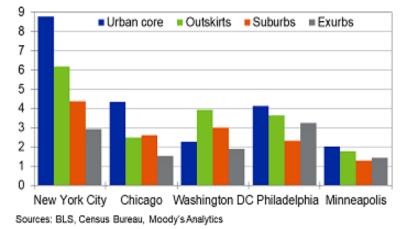


## Work From Home Already Creating Winners/Losers

- Losers higher cost urban centers especially in the NE and Core Urban Counties
- Winners lower cost cities in south and west with better climates and places with high amenity values

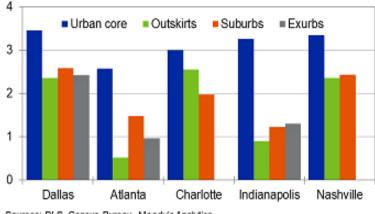
### Cities' Labor Markets Are Struggling

Unemployment rate, %, diff from 2020Q1 to 2020Q4



### Core Urban Counties Struggle Everywhere

Unemployment rate, %, diff from 2020Q1 to 2020Q4



Sources: BLS, Census Bureau, Moody's Analytics



# Population Growth for 2020 Already Showing Signs

- Population for 2020 measured as of April 1<sup>st</sup>
- States showing accelerating growth or accelerating decline reflect impact of structural changes underway

Winners	Growth 19-20	Change	Losers	Growth 19-20	Change
Texas	373,965	11,735	Virginia	33,921	-11,801
Tennessee	56,509	4,364	Maryland	848	-11,953
Florida	241,256	4,126	Colorado	49,233	-12,098
Oklahoma	20,107	2,919	Nevada	47,488	-12,558
Montana	10,454	2,149	Minnesota	17,289	-14,002
Arizona	129,558	1,943	Michigan	-18,240	-15,749
Kansas	1,170	1,283	Ohio	-3,290	-18,905
Wyoming	2,212	1,150	Illinois	-79,487	-21,819
Idaho	37,853	867	Georgia	81,997	-26,634
New Mexico	6,685	805	New York	-126,355	-45,388



### Master Planned Communities in High Demand

- Sales increased significantly in 2020 for master planned communities
- Florida is home to 3 of the top 5 best selling master planned communities including the top 2

RANK MPC	MCA (CITY CTATE)	DEVELOPER -	SALES			
	WFC	MSA (CITY, STATE)	DEVELOPER	2020	2019	%∆
1	The Villages	The Villages (The Villages, Florida)	The Villages	2,452	2,429	1%
2	Lakewood Ranch	North Port-Sarasota-Bradenton (Sarasota, Florida)	Schroeder-Manatee Ranch, Inc.	2,149	1,648	30%
3	Summerlin	Las Vegas-Henderson-Paradise (Las Vegas, Nevada)	Howard Hughes Corporation	1,456	1,320	10%
4	Wellen Park (formerly West Villages)	North Port-Sarasota-Bradenton (Venice, Florida)	Wellen Park LLLP	1,415	1,273	11%
5	Daybreak	Salt Lake City (South Jordan, Utah)	Daybreak Communities	1,055	753	40%

RCL Survey https://www.rclco.com/publication/the-top-selling-master-planned-communities-of-2020/



### **Consequences for Property Values**

- Values for retail, restaurant, office and hotels will decline on average in the near term
  - Impacts on many retail and office properties will be permanent
  - Impacts on hotels will be substantial, but over time the sector will recover
- Values for warehouses will increase significantly
  - Driven by Ecommerce
- Values for residential properties will increase strongly
  - Driven by work from home / school from home
- Impacts will be felt mostly in FY2022-23

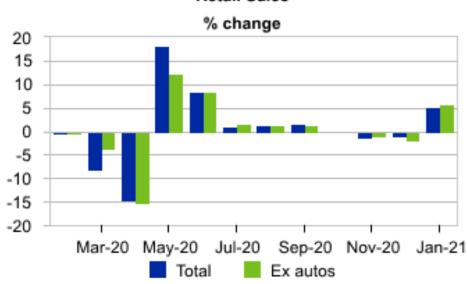


# **Review of Latest U.S. Data**



## **Retail Sales**

- Surprising January gains pushed sales 7.4% over last year
- Fueled by re-openings, stimulus checks, and dramatic shift away from services to goods
- Some sectors thriving while others struggling shift from restaurants to grocery stores and accelerating Ecommerce

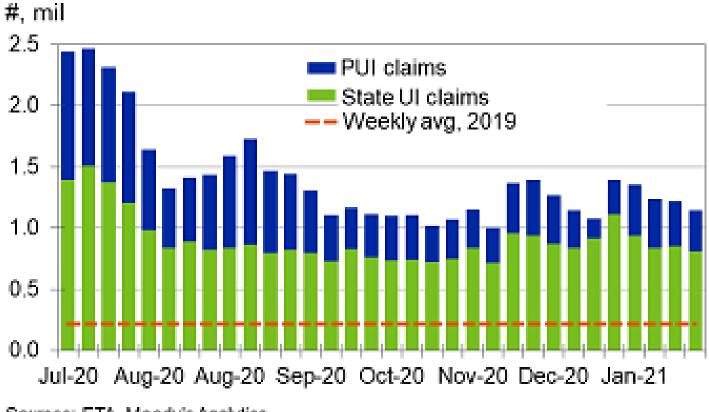


Retail Sales

Moody's



# Jobless Claims Hold Above One Million

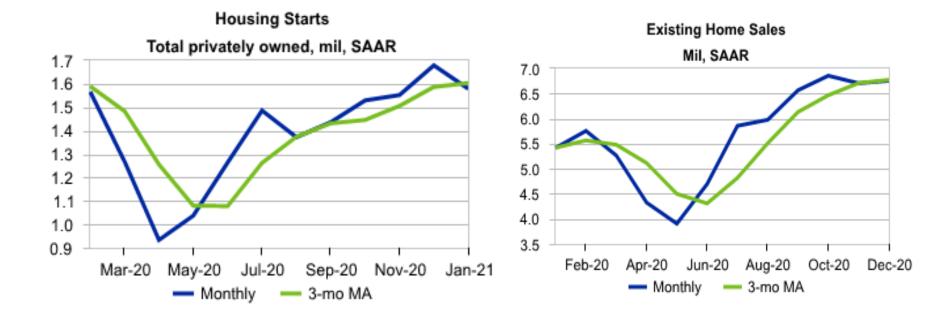


Sources: ETA, Moody's Analytics



## **Housing Starts and Sales have Boomed**

- Housing markets were the surprising stand out in 2020
- Work from home + low interest rates + "K" recovery = Housing Boom

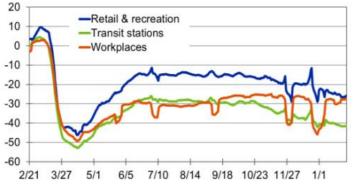




## **Pandemic Continues Depressing Activity**

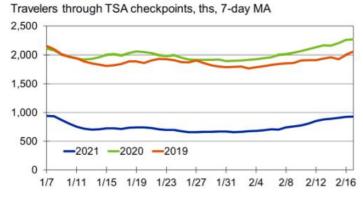
#### Mobility Is Mixed

U.S. Google mobility, relative to baseline, %, 7-day MA, 2020-2021



Sources: Google, Moody's Analytics

#### Travel Remains Very Weak



Sources: Transportation Security Administration, Moody's Analytics

#### Surging COVID-19 Cases Hit Restaurants

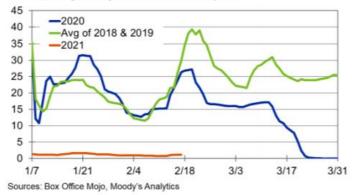
Seated diners, % change yr ago, 7-day MA



Sources: OpenTable, Moody's Analytics

#### Box Office Still Reeling

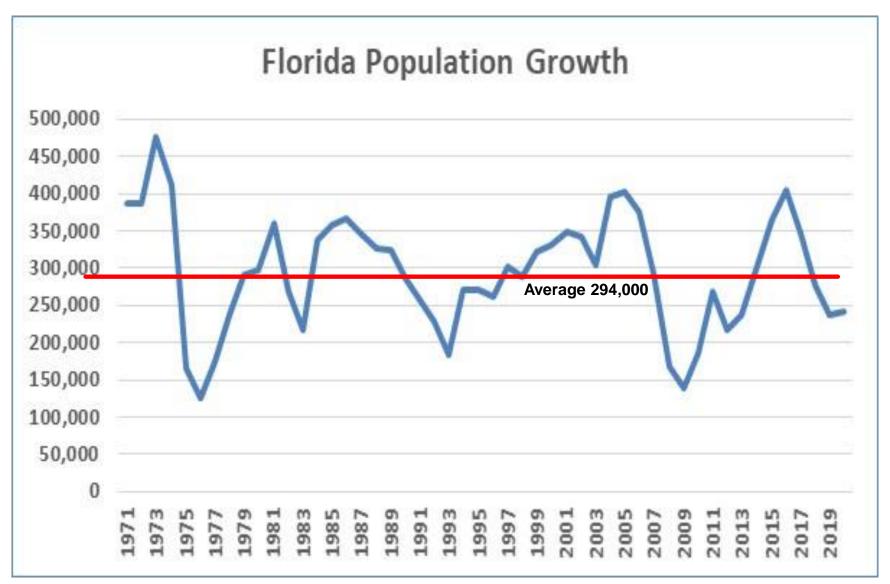
U.S. top 10 grossing movies, \$ mil, 7-day MA





# **Florida Forecast**

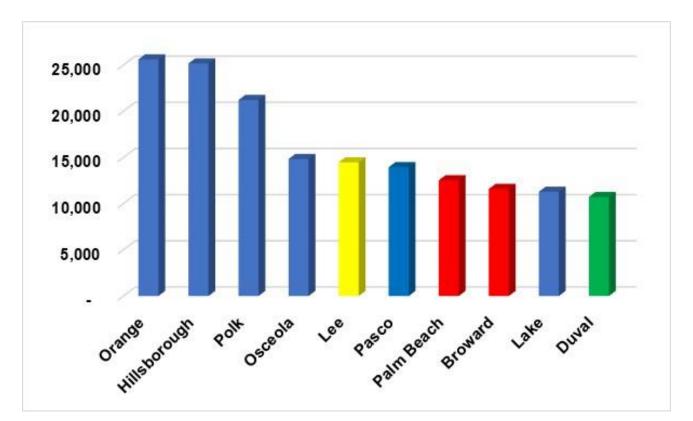






## Florida Population Growth by County 2018-19

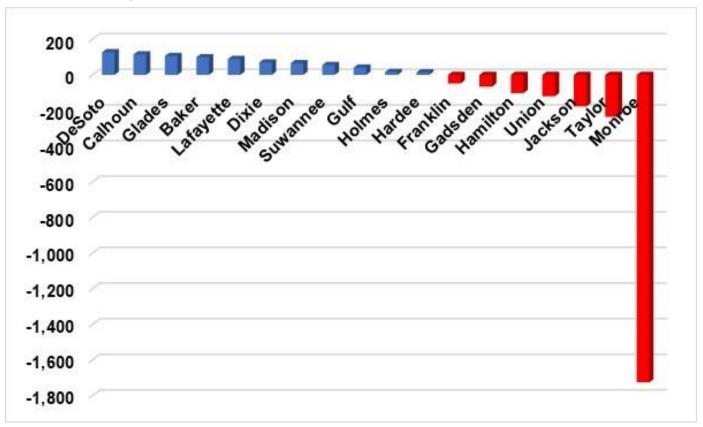
I-4 Corridor in blue dominates growth 2018-19





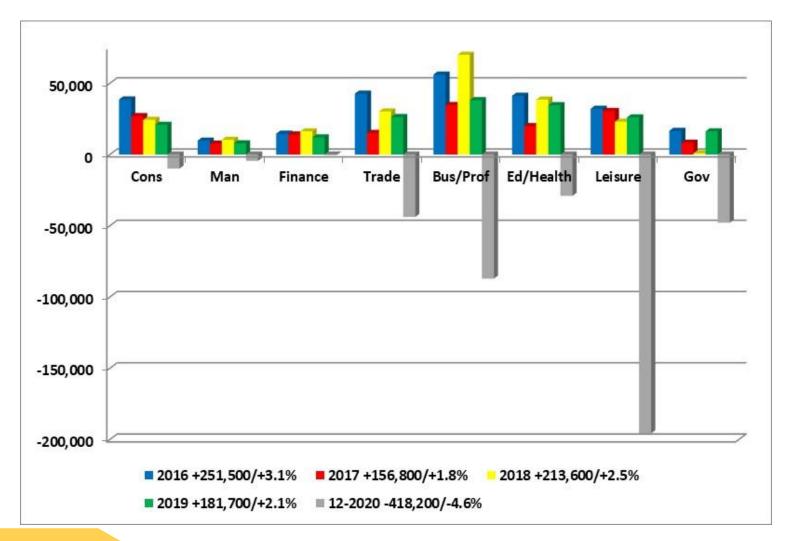
### Florida Population Growth by County 2018-19

Many counties grew slowly and 7 lost population



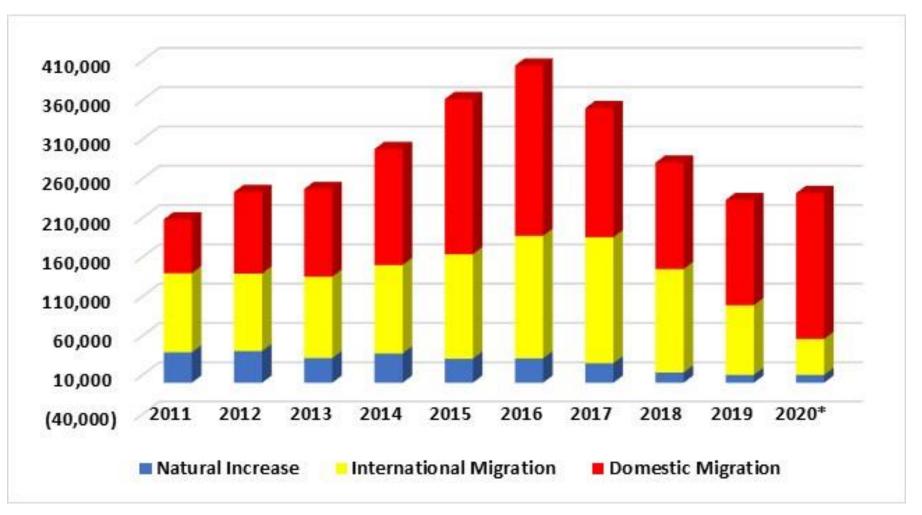


#### **Florida Job Growth**





#### Florida Population Growth by Component





#### Sales of Existing Single-Family Homes

	January 2021	January 2020	Percent Change Year-over-Year
Closed Sales	21,587	18,298	18.0%
Paid in Cash	5,649	5,087	11.0%
Median Sale Price	\$305,000	\$265,000	15.1%
Average Sale Price	\$454,352	\$361,821	25.6%
Dollar Volume	\$9.8 Billion	\$6.6 Billion	48.1%
Med. Pct. of Orig. List Price Received	98.4%	96.4%	2.1%
Median Time to Contract	21 Days	44 Days	-52.3%
Median Time to Sale	69 Days	88 Days	-21.6%
New Pending Sales	31,490	26,940	16.9%
New Listings	28,424	31,629	-10.1%
Pending Inventory	48,231	34,965	37.9%
Inventory (Active Listings)	40,620	82,983	-51.1%
Months Supply of Inventory	1.6	3.4	-52.9%

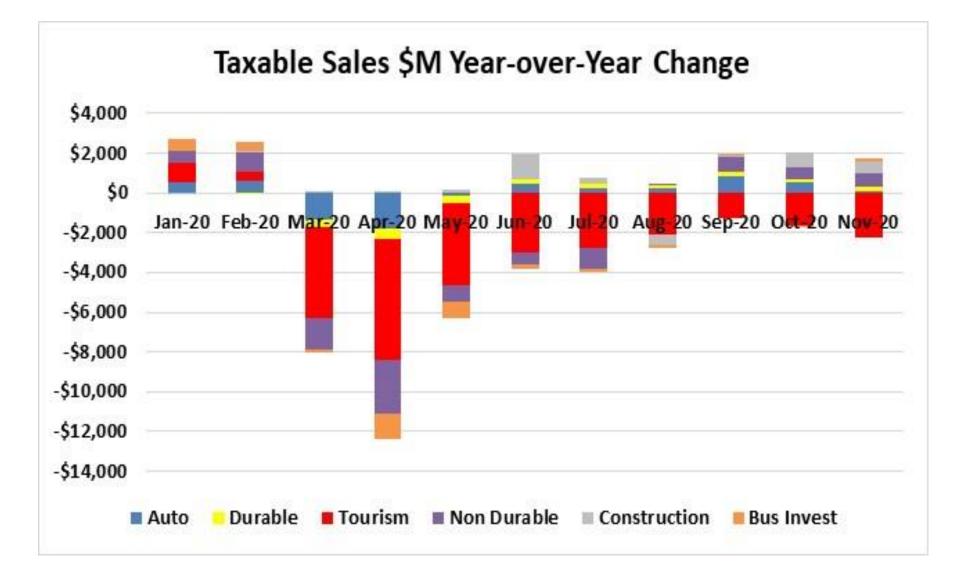
© PFM



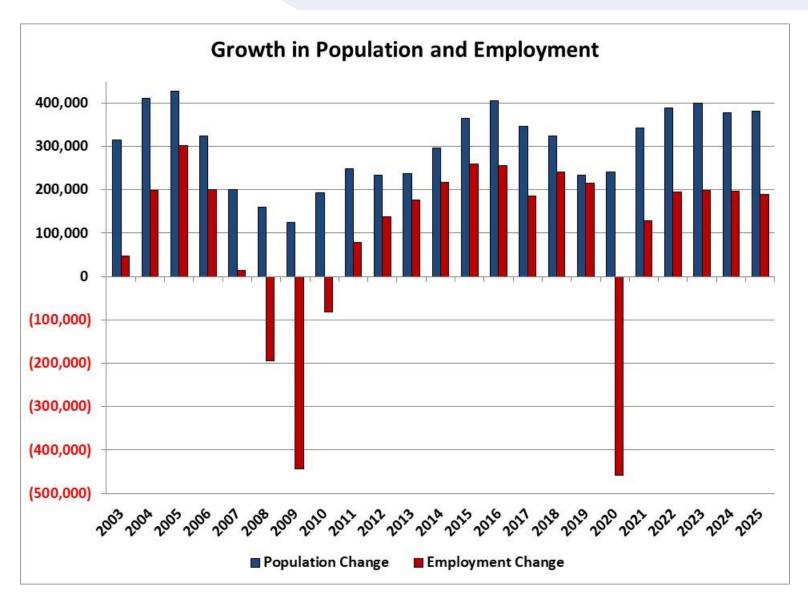
#### Sales of Existing Condos and Townhomes

	January 2021	January 2020	Percent Change Year-over-Year
Closed Sales	9,608	7,714	24.6%
Paid in Cash	4,521	3,892	16.2%
Median Sale Price	\$230,000	\$200,000	15.0%
Average Sale Price	\$349,009	\$295,527	18.1%
Dollar Volume	\$3.4 Billion	\$2.3 Billion	47.1%
Med. Pct. of Orig. List Price Received	96.2%	95.1%	1.2%
Median Time to Contract	39 Days	53 Days	-26.4%
Median Time to Sale	81 Days	93 Days	-12.9%
New Pending Sales	15,313	11,598	32.0%
New Listings	14,890	15,993	-6.9%
Pending Inventory	21,797	15,249	42.9%
Inventory (Active Listings)	39,423	53,503	-26.3%
Months Supply of Inventory	3.9	5.5	-29.1%



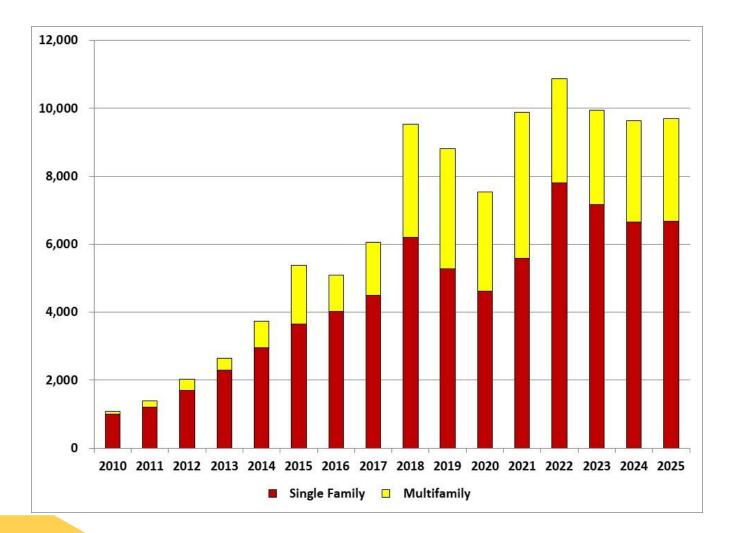








#### **Florida Housing Starts**





## **Implications for FEFP Members**

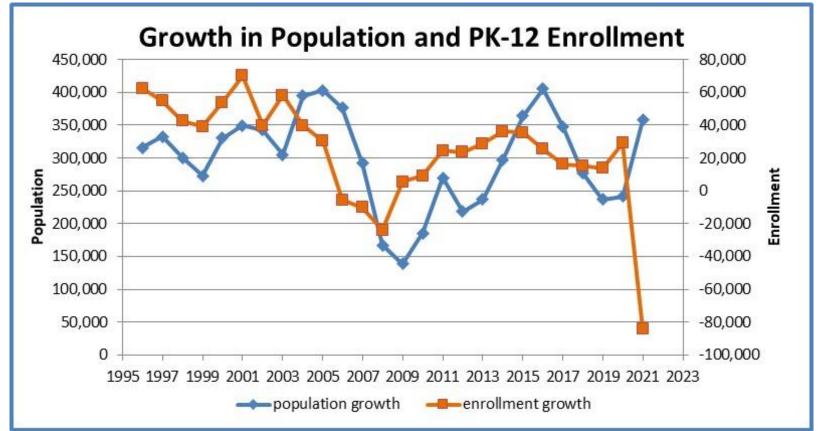


# **Membership and Population Growth**



## **Population Growth and Membership Growth**

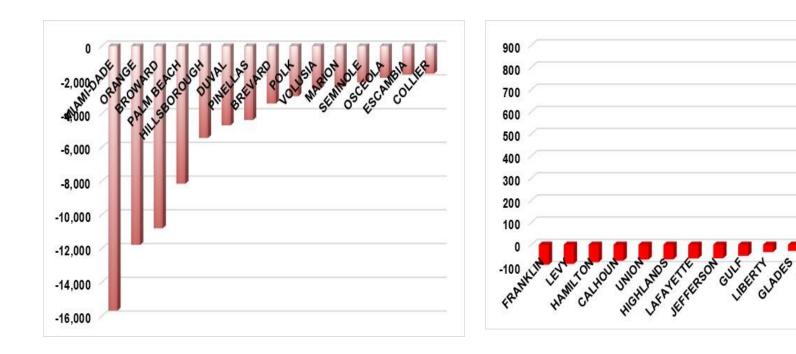
- Correlation = 0.44 from 1995-2020
- 2020-21 Enrollment outlier from Covid19 lockdown





#### Membership Growth – Fastest and Slowest Growth by County 2020-21

- Overall membership dropped 84,355 ۲
- Substantial declines in large urban counties including: Miami-Dade, Orange, Broward, Palm Beach, Hillsborough, ۲ **Duval and Pinellas**
- Only 4 counties had gains topped by 4,675 in Hendry



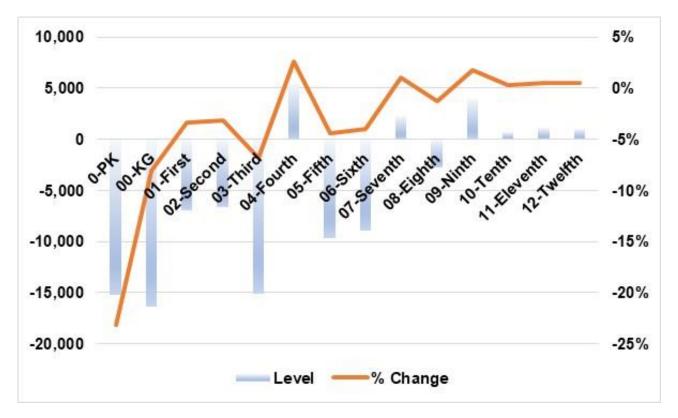
PASCO ST. JOHNS

8A



#### Membership Change 2020-21 by Class

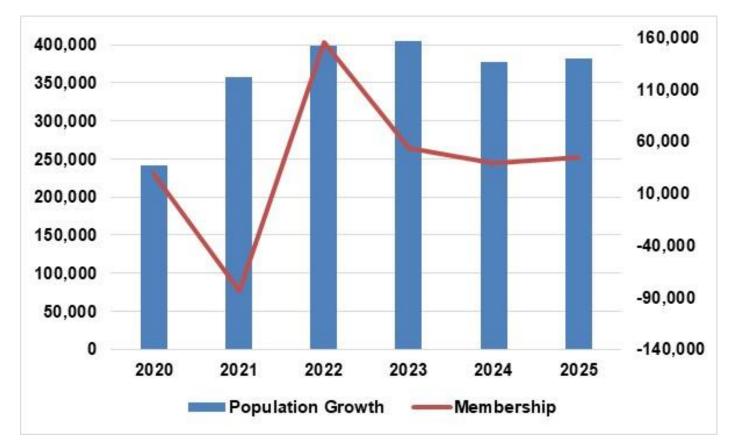
- Most loss was in Pre-K to 3<sup>rd</sup> Grade which accounted for 75% of attendance loss
- Expect a big rebound with the recovery in 2022-21





#### **Membership Forecast**

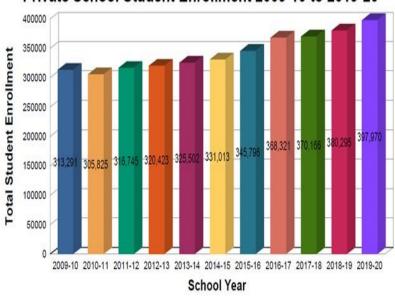
- Big rebound in PreK-3<sup>rd</sup> Grade propels gains in 2021-22
- Population surge supports strong gains through 2024-25





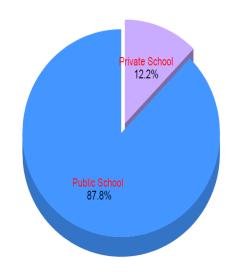
#### **Private Schools Continue to Gain Share**

- Data only available for 2019-20
- Covid19 probably boosted share for privates



#### Private School Student Enrollment 2009-10 to 2019-20

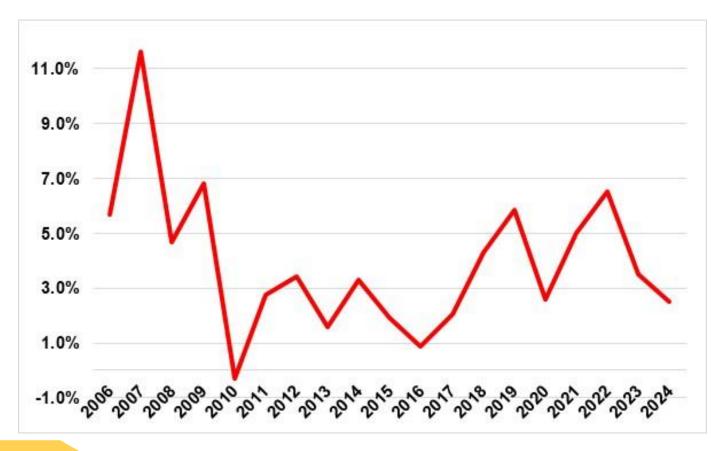
#### PK-12 Public and Private School Enrollment 2019-20





## **School Construction Cost Trajectory**

- U.S. Producer Price Index for School Construction
- Land cost in Florida likely to rise 10% or more in 2021 and 2022 then slow to 5% per year



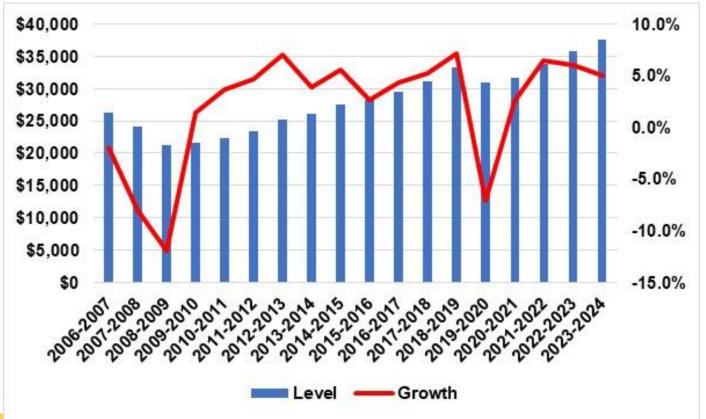


## **Florida's General Fund**



## Florida's General Fund Revenue

- GF fell -7% in 2019-20 due to the lock down and pandemic
- GF rebounded and by December 2020 was even with December 2019
- Revenue growth will be strong, especially in 2021-22 with additional federal stimulus





## **Dr. Hank's Prescription**

# **STAY POSITIVE !**

# **TEST NEGATIVE!**







#### **Important Disclosure Information**

PFM is the marketing name for a group of affiliated companies providing a range of services. All services are provided through separate agreements with each company. This material is for general information purposes only and is not intended to provide specific advice or a specific recommendation.

Financial advisory services are provided by PFM Financial Advisors LLC and Public Financial Management, Inc. Both are registered municipal advisors with the Securities and Exchange Commission (SEC) and the Municipal Securities Rulemaking Board (MSRB) under the Dodd-Frank Act of 2010. Investment advisory services are provided by PFM Asset Management LLC which is registered with the SEC under the Investment Advisers Act of 1940. Swap advisory services are provided by PFM Swap Advisors LLC which is registered as a municipal advisor with both the MSRB and SEC under the Dodd-Frank Act of 2010, and as a commodity trading advisor with the Commodity Futures Trading Commission. Additional applicable regulatory information is available upon request.

Consulting services are provided through PFM Group Consulting LLC. For more information regarding PFM's services or entities, please visit www.pfm.com.

This material is based on information obtained from sources generally believed to be reliable and available to the public, however PFM cannot guarantee its accuracy, completeness or suitability. This material is for general information purposes only and is not intended to provide specific advice or a specific recommendation. All statements as to what will or may happen under certain circumstances are based on assumptions, some but not all of which are noted in the presentation. Assumptions may or may not be proven correct as actual events occur, and results may depend on events outside of your or our control. Changes in assumptions may have a material effect on results. Past performance does not necessarily reflect and is not a guaranty of future results.

# **Thank You!**

