# Florida: Long-Range Financial Outlook

**September 15, 2017** 

Presented by:



The Florida Legislature
Office of Economic and
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# **Economy Recovering**

Florida growth rates are returning to more typical levels and continue to show healthy progress. The drags—particularly construction—are more persistent than past events, but the strength in tourism is compensating for this. In the various forecasts, normalcy was largely achieved by the end of FY 2016-17. Overall...

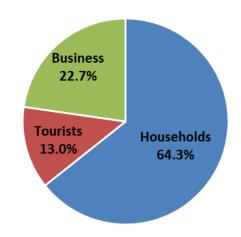
- The recovery in the national economy is near completion on all fronts.
- By the close of the 2016-17 fiscal year, most measures of the Florida economy had returned to or surpassed their prior peaks.
  - All personal income metrics and about half of the employment sectors had exceeded their prior peaks. Still other measures were posting solid year-overyear improvements, even if they were not yet back to peak performance levels.
  - Florida's tourism industry set a new record of 114.25 million visitors in FY 2016-17 and is likely to see 119.02 million visitors in FY 2017-18. This strong tourism growth continues throughout the years covered by the Outlook. The Economic Estimating Conference projects that the number of tourists will grow by 4.5 percent per year during the 2018-19, 2019-20, and 2020-21 fiscal years.
  - The key construction metrics do not show a return to their peak levels until FY 2020-21 (total construction expenditures) and FY 2023-24 (private residential construction expenditures). The rest either do not return to their peak at all during the forecast horizon (single and multi-family starts) or very late in the period (construction employment in FY 2025-26).

#### Florida-Based Downside Risk

- The most recent sales tax forecast relies heavily on strong tourism growth.
   It makes no adjustments for the occurrence of adverse events having significant repercussions on tourism—such as natural disasters—during the forecast window.
  - Currently, tourism-related revenue losses pose the greatest potential risk to the economic outlook.
  - Previous economic studies of disease outbreaks and natural or manmade disasters have shown that tourism demand is very sensitive to such events.

Contributions to General Revenue from Sales Tax (with CST)
Collections in FY 2015-16, By Source

The Legislative Office of Economic and Demographic Research has updated and refined an empirical analysis of the various sources of the state's sales tax collections. In FY 2015-16, sales tax collections provided \$22.0 billion or 76.4% of Florida's total General Revenue collections. Of this amount, an estimated 13.0% (nearly \$2.86 billion) was attributable to purchases made by tourists.



# **External Risk to the Economy**

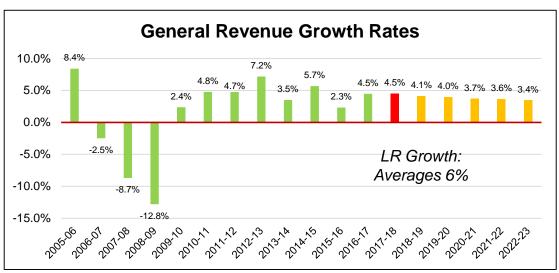
- The national baseline forecast that underpins the Florida economic forecast heavily relies on the assumption that the pace of recovery will pick up in 2018 as fiscal stimulus from personal income and corporate income tax cuts, along with a boost in infrastructure spending, kick in. As of the release of this Outlook, no action has occurred on any of these fronts.
- Further, critical deadlines are looming for the omnibus budget bill and debt ceiling extension in September and early October. Among other things, the budget agreement is assumed to include a change to the automatic sequester provisions that are scheduled to kick back in at the start of the 2018 federal fiscal year.

UPDATE: Agreement is now in place to fund the US government at current spending levels through December 8, 2017, as well as a short-term (3 months) increase in the debt ceiling.

 If any of these deadlines are missed by an extended period of time or the anticipated fiscal stimulus fails to materialize, there will be negative repercussions to consumer, business, and investor confidence that would adversely impact expected economic performance in the nation and in Florida.

### **General Revenue Forecast**

Growth from the beginning to the end of the Outlook Period is \$3.79 billion for a combined total of an additional \$7.61 billion available for expenditure over the Outlook period as one year stacks on the next.



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	Post-Session	August	Difference	In	cremental		
Fiscal Year	Forecast	Forecast	(Aug - PS)		Growth	(	rowth
2005-06	27,074.8			Ш			8.4%
2006-07	26,404.1						-2.5%
2007-08	24,112.1						-8.7%
2008-09	21,025.6						-12.8%
2009-10	21,523.1						2.4%
2010-11	22,551.6						4.8%
2011-12	23,618.8						4.7%
2012-13	25,314.6						7.2%
2013-14	26,198.0						3.5%
2014-15	27,681.1						5.7%
2015-16	28,325.4						2.3%
2016-17	29,558.9	29,594.5	35.6		1,269.1		4.5%
2017-18	30,793.8	30,926.0	132.2		1.331.5		4.5%
2018-19	32,013.3	32,201.4	188.1		1,275.4		4.1%
2019-20	33,278.9	33,474.9	196.0		1,273.5		4.0%
2020-21	34,461.7	34,714.5	252.8		1,239.6	D	3.7%
2021-22	35,667.1	35,977.9	310.8		1,263.4		3.6%
2022-23	n/a	37,214.0	n/a		1,236.1		3.4%

The August forecast would have essentially matched the old forecast in the short-term; however, recognition of Indian Gaming revenue share payments associated with banked card games resulted in a net increase in the estimate.

# State Reserves Are Strong

		Unallocated	Budget	Lawton Chiles		GR Summer	
Outlook	Baseline	General	Stabilization	Endowment	Total	Revenue	% of GR
Year	Fiscal Year	Revenue	Fund	Fund	Reserves	Estimate*	Estimate
2011	2011-12	1,357.5	493.6	696.2	2,547.3	23,795.1	10.7%
2012	2012-13	1,577.7	708.1	426.1	2,711.9	24,631.6	11.0%
2013	2013-14	1,893.5	924.8	536.3	3,354.6	26,184.2	12.8%
2014	2014-15	1,589.0	1,139.2	629.3	3,357.5	27,189.4	12.3%
2015	2015-16	1,709.1	1,353.7	590.2	3,653.0	28,414.1	12.9%
2016	2016-17	1,414.2	1,384.4	637.5	3,436.1	29,732.8	11.6%
2017	2017-18	1,458.5	1,416.5	713.4	3,588.4	31,152.8	11.5%

\*Reflects the General Revenue forecast adopted by the Revenue Estimating Conference in the summer preceding the adoption of each Long-Range Financial Outlook. The Fiscal Year 2016-17 amount includes the \$400 million payment associated with the BP Settlement Agreement. The Fiscal Year 2017-18 amount includes the \$226.8 million Indian Gaming reserve release.

- Unallocated General Revenue, the Budget Stabilization Fund, and the Lawton Chiles Endowment Fund are generally considered to comprise the state's reserves.
- At the time each of the previous six Outlooks was adopted, total state reserves have ranged from 10.7% up to 12.9% of the General Revenue estimate.
- For the current year, total state reserves are \$3,588.4 million or 11.5% of the General Revenue estimate for FY 2017-18.

#### **GR Outlook Balance for FY 2017-18**

	REC	N/R	TOTAL	
2017-18 Ending Balance on Post-Session Outlook	113.1	932.5	1,045.6	
-PLUS- Revenue Surplus from 2016-17	0.0	35.6	35.6	\$385.6
-PLUS- FEMA Reimbursement from 2016-17	0.0	19.5	19.5	million
-PLUS- Indian Gaming Reserve Release	0.0	226.8	226.8	<
-PLUS- Indian Gaming Forecast Change	-113.7	272.5	158.8	)
-MINUS- All Other Forecast Changes	-26.6	0	-26.6	
-MINUS- Miscellaneous Outlook Adjustments	-3.3	2.1	-1.2	
BALANCE ON CURRENT OFFICIAL OUTLOOK	-30.5	1,489.0	1,458.5	
-MINUS- Current Year Estimating Conference Operating Deficits	0.0	-29.6	-29.6	
ADJUSTED BALANCE	-30.5	1,459.4	1,428.9	

#### BALANCE FOR LONG-RANGE FINANCIAL OUTLOOK

1,428.9

The projected remaining balance of \$1.4 billion in nonrecurring dollars is assumed in the Outlook to be available for use in FY 2018-19. However, this projection does not include any expenditures related to budget amendments arising from Hurricane Irma which will reduce the bottom line.

### **Budget Drivers**

- Tier 1 Includes only Critical Needs, which are mandatory increases based on estimating conferences and other essential items. The 18 Critical Needs drivers represent the minimum cost to fund the budget without significant programmatic changes. For the General Revenue Fund, the greatest burden occurs in FY 2019-20 when projected expenditures jump sharply from FY 2018-19, largely due to the depletion of one-time trust fund balances that reduced the General Revenue need in FY 2018-19. The jump is also caused by the scheduled reduction in the federal match rate for the Kidcare program beginning October 1, 2019.
- Tier 2 Other High Priority Needs are added to the Critical Needs. Other High Priority Needs
  reflect issues that have been funded in most, if not all, of the recent budget years. Both types of
  drivers are combined to represent a more complete, yet still conservative, approach to estimating
  future expenditures. In contrast to Critical Needs, the General Revenue burden for the 35 Other
  High Priority Needs is spread fairly evenly across the fiscal years but declines slightly over time.

#### DOLLAR VALUE OF CRITICAL AND OTHER HIGH PRIORITY NEEDS

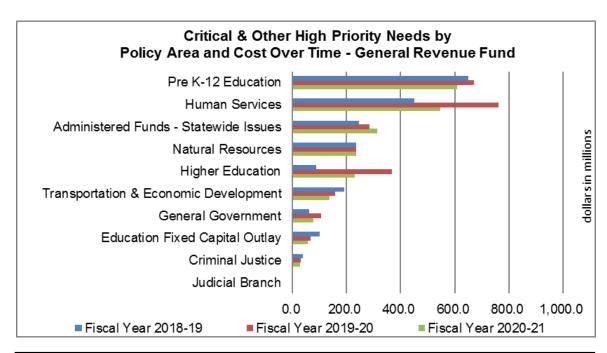
	Fiscal Year	Fiscal Year	Fiscal Year
GENERAL REVENUE FUND	2018-19	2019-20	2020-21
Total Tier 1 - Critical Needs	17.8	753.4	317.4
Total - Other High Priority Needs	2,042.8	1,925.1	1,911.3
Total Tier 2 - Critical and Other High Priority Needs	2,060.6	2,678.5	2,228.7

#### PERCENTAGE OF TOTAL CRITICAL AND OTHER HIGH PRIORITY NEEDS

	Fiscal Year	Fiscal Year	Fiscal Year
GENERAL REVENUE FUND	2018-19	2019-20	2020-21
Total Tier 1 - Critical Needs	0.9%	28.1%	14.2%
Total - Other High Priority Needs	99.1%	71.9%	85.8%
Total Tier 2 - Critical and Other High Priority Needs	100.0%	100.0%	100.0%

# **GR Drivers by Policy Area**

Two policy areas, Higher Education and Human Services, have their greatest needs in the second year of the Outlook, requiring significantly more General Revenue than in the first year of the Outlook. These are the areas most affected by the depletion of the trust fund balances. Other areas, including Natural Resources and Administered Funds-Statewide Issues, have more balanced needs across the three years of the Outlook.



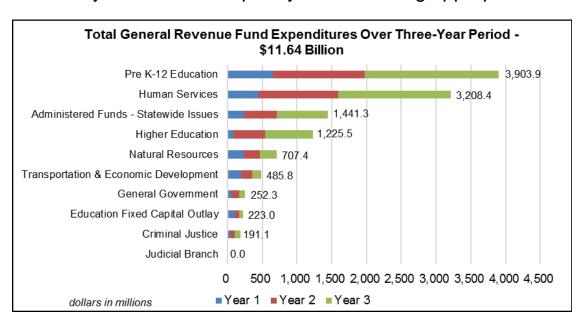
	Fiscal Year	Fiscal Year	Fiscal Year
POLICY AREAS	2018-19	2019-20	2020-21
Pre K-12 Education	651.5	670.6	608.2
Higher Education	87.4	366.8	229.7
Education Fixed Capital Outlay	100.2	65.9	56.9
Human Services	451.2	762.3	545.7
Criminal Justice	37.3	30.1	28.3
Judicial Branch	0.0	0.0	0.0
Transportation & Economic Development	192.1	158.3	135.4
Natural Resources	235.0	234.8	235.2
General Government	60.8	106.4	76.6
Administered Funds - Statewide Issues	<u>245.1</u>	<u>283.3</u>	<u>312.7</u>
Total New Issues	2,060.6	2,678.5	2,228.7

### Total GR Expenditures—\$11.6 Billion

		Fiscal Year			
	2018-19	2019-20	2020-21	TOTAL	
New Recurring Drivers for Each Year	1,331.1	2,008.7	1,624.5	4,964.3	
Continuation of Prior Year(s) Recurring Drivers		1,331.1	3,339.8	4,670.9	
Total Expenditures on Recurring Drivers	1,331.1	3,339.8	4,964.3	9,635.2	82.8%
Nonrecurring Drivers by Year	729.5	669.8	604.2	2,003.5	17.2%
Grand Total	2,060.6	4,009.6	5,568.5	11,638.7	

From the start to the end of the Outlook period, recurring growth increases by \$4.96 billion. The recurring effects of the new drivers in each year continue throughout the remaining years contained in the Outlook as each new year adds to the prior year's recurring appropriations.

Over the entire Outlook period, the combined recurring and nonrecurring drivers result in \$11.64 billion of General Revenue expenditures on Critical and Other High Priority Needs. This represents an increase of 11.1 percent from the expenditures included in the 2016 Outlook.



# Revenue Adjustments

- Revenue Adjustments to the General Revenue Fund are again included in the Outlook to reflect legislative actions that alter the revenue-side of the state's fiscal picture. These adjustments are based on three-year averages and include:
  - Tax and Significant Fee Changes...These changes fall into two categories, each with a different
    effect. The continuing tax and fee changes reflect adjustments to the funds otherwise available
    and build over time since the impact of each year's change is added to the recurring impacts from
    prior years. Conversely, the time-limited tax and fee changes are confined to each year and are
    held constant throughout the Outlook.
  - Trust Fund Transfers (GAA)...The nonrecurring transfers are positive adjustments to the funds
    otherwise available and are held constant each year. Fiscal Year 2017-18 had a particularly large
    number of qualifying transfers (\$465.3 million) that collectively increased the average by \$81.1
    million from last year's Outlook.

	2018-19		2019-20			2020-21				
	Rec	NR	Total	Rec	NR	Total		Rec	NR	Total
Continuing Tax and Fee Changes	(141.1)	51.6	(89.5)	(141.1)	51.6	(89.5)		(141.1)	51.6	(89.5)
Recurring Impact of Prior Years' Tax and Fee Changes	0.0	0.0	0.0	(141.1)	0.0	(141.1)		(282.3)	0.0	(282.3)
Time-Limited Tax and Fee Changes	0.0	(63.9)	(63.9)	0.0	(63.9)	(63.9)		0.0	(63.9)	(63.9)
Trust Fund Transfers (GAA)	0.0	323.6	323.6	0.0	323.6	323.6		0.0	323.6	323.6
Total	(141.1)	311.3	170.2	(282.3)	311.3	29.0		(423.4)	311.3	(112.1)

# Putting It Together for the First Year

OUTLOOK PROJECTION - FISCAL	YEAR 20	18-19 (in mi	Illions)
	RECURRING	NON RECURRING	TOTAL
AVAILABLE GENERAL REVENUE	\$31,951.5	\$1,803.4	\$33,754.9
Base Budget	\$30,744.3	\$0.0	\$30,744.3
Transfer to Budget Stabilization Fund	\$0.0	\$68.2	\$68.2
Critical Needs	(\$77.9)	\$95.7	\$17.8
Other High Priority Needs	\$1,409.0	\$633.8	\$2,042.8
Reserve	\$0.0	\$1,000.0	\$1,000.0
TOTAL EXPENDITURES	\$32,075.4	\$1,797.7	\$33,873.
Revenue Adjustments	(\$141.1)	\$311.3	\$170.2
ENDING BALANCE	(\$265.0)	\$317.0	\$52.

- Combined, recurring and nonrecurring General Revenue Critical Needs—plus a minimum reserve of \$1.0 billion—are significantly less than the available General Revenue, leaving a surplus of more than \$1.9 billion. However, when Other Priority Needs are added, the available General Revenue falls short of the projected total need by \$118.2 million.
- After accounting for the revenue adjustments included in Tier 3 of the Outlook, there is enough General Revenue to cover the Critical and Other High Priority Needs; however, there is essentially no remaining General Revenue for discretionary issues—the projected surplus of \$52.0 million equates to just 0.16 percent of the General Revenue estimate for Fiscal Year 2018-19.
- Further, the projected recurring expenditures and revenue adjustments, in combination, outstrip the available recurring resources by \$265.0 million.

### **Outlook Projections Over Time**

Outlook	For the Period Beginning	Year 1 (\$ Millions)	Year 2 (\$ Millions)	Year 3 (\$ Millions)	Level of Reserves
2007	Fiscal Year 2008-09	(2,334.5)	(2,860.7)	(3,066.0)	0.0
2008	Fiscal Year 2009-10	(3,306.3)	(2,482.5)	(1,816.8)	0.0
2009	Fiscal Year 2010-11	(2,654.4)	(5,473.2)	(5,228.6)	0.0
2010	Fiscal Year 2011-12	(2,510.7)	(2,846.3)	(1,930.3)	0.0
2011	Fiscal Year 2012-13	273.8	692.1	840.6	1,000.0
2012	Fiscal Year 2013-14	71.3	53.5	594.0	1,000.0
2013	Fiscal Year 2014-15	845.7	1,426.7	3,295.3	1,000.0
2014	Fiscal Year 2015-16	336.2	1,004.5	2,156.1	1,000.0
2015	Fiscal Year 2016-17	635.4	583.7	222.2	1,000.0
2016	Fiscal Year 2017-18	7.5	(1,300.9)	(1,897.7)	1,000.0
2017	Fiscal Year 2018-19	52.0	(1,146.2)	(1,639.6)	1,000.0

- FY 2019-20 and FY 2020-21 (Years 2 and 3 of the Outlook) both show projected budget needs significantly in excess of available revenue for Critical and Other High Priority Needs. The recurring shortfalls are even greater when factoring in the potential revenue adjustments.
- While the net result is better than anticipated by the 2016 Outlook for FY 2017-18, the projected level of the recurring shortfall in the current budget year is virtually the same (-\$24.4 million in the 2016 Outlook compared to -\$30.5 million in the 2017 Outlook).
- The overall net improvement came from a much higher than expected nonrecurring ending balance, explained in part by the Indian Gaming changes, but also by the much higher than expected trust fund transfers (+\$242.5 million in the 2016 Outlook compared to +\$456.3 million authorized in the GAA).

# Impact of Indian Gaming Revenue

Outlook Calculation	Year 1 (\$ Millions)	Year 2 (\$ Millions)	Year 3 (\$ Millions)	Level of Reserves
Without Indian Gaming Change	(498.7)	(1,365.7)	(1,809.5)	1,000.0
With Indian Gaming Change	52.0	(1,146.2)	(1,639.6)	1,000.0
Difference Due to Change	+550.7	+219.5	+165.1	n/a

<sup>\*</sup>Note: Year 2 benefits in two ways: \$167.5 million for Conference adjustment + unspent prior year ending balance (\$52 million) that moves forward into the subsequent year.

- The inclusion of the Indian Gaming reserve release and forecast change to recognize the revenue share payments associated with banked card games significantly improved the bottom line anticipated by the Legislature at the conclusion of the 2017 Regular Session and Special Session A.
- The small positive ending balance in Year 1 is entirely due to the incorporation of the additional Indian Gaming revenues during the Summer Conference Season.
- Although the combined forecast change and reserve release for Indian Gaming increased the overall total for General Revenue, it had the opposite effect on recurring revenue.
  - The future revenue share payments, including those formerly placed in reserve, have been treated
    as nonrecurring revenues because the continuation of these payments depends on actions by the
    state and the Seminole Tribe that cannot be anticipated with sufficient certainty.
  - Since the entire amount is now nonrecurring, the General Revenue Outlook loses between \$113.7 million and \$117.7 million that were formerly shown as recurring for each year of the period covered by the Long-Range Financial Outlook.

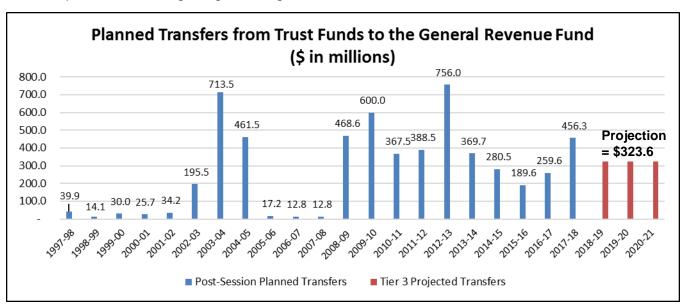
### **The Bottom Line**

2017 Outlook	For the Period Beginning Fiscal Year 2018-19	Year 1 (\$ Millions)	Year 2 (\$ Millions)	Year 3 (\$ Millions)	Level of Reserves
Tier 1	Critical Needs	\$1,924.6	\$4,031.4	\$7,140.1	\$1,000.0
Tier 2	Critical Needs & Other High Priority Needs	(\$118.2)	(\$1,227.3)	(\$1,527.5)	\$1,000.0
Tier 3	Critical Needs, Other High Priority Needs & Revenue Adjustments	\$52.0	(\$1,146.2)	(\$1,639.6)	\$1,000.0

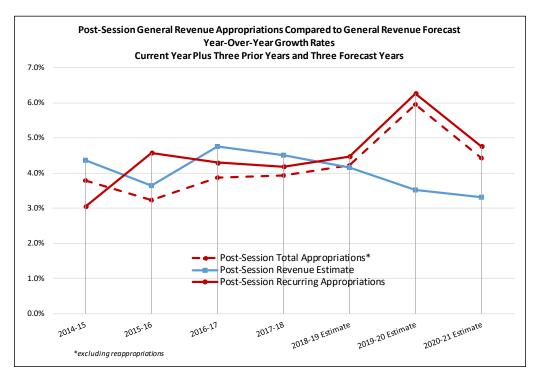
- Notwithstanding the positive impacts of the Indian Gaming revenues and the higher levels of trust fund transfers, the actions taken during the 2017 Session also had a modestly positive impact on the projected shortfalls identified in the 2016 Outlook. Even so, the large negative ending balances for Fiscal Year 2019-20 and Fiscal Year 2020-21 in both Tiers 2 and 3 indicate a looming problem remains.
- Particularly problematic is the fact that the recurring General Revenue demands exceed the amount of recurring General Revenue available all three years for both Tier 2 and Tier 3. This indicates that a structural imbalance is occurring between expenditures and revenues.
- Since the increase in projected recurring expenditures (and negative revenue adjustments in Tier 3) in FY 2018-19 clearly contributes to and worsens the problems in FY 2019-20 and FY 2020-21, Fiscal Strategies are advisable for all three years of the Outlook in order to manage the problems in the out-years.

# **Shoring Up Current Projections is Critical**

- The Outlook's results for all three years depend greatly on the Indian Gaming revenue changes and the heightened level of future trust fund transfers. If either of these assumptions fails to come to pass, the current results will significantly deteriorate.
  - The Settlement Agreement and Stipulation entered into between the Seminole Tribe of Florida and the State of Florida in July 2017 requires that "...the state takes aggressive enforcement action against the continued operation of banked card games, including Designated Player Games that are operated in a banked game manner..." Assuming that this happens, the Revenue Estimating Conference recognized all revenue share payments associated with banked card game activity. However, the Conference lacked sufficient certainty to make any of the payments recurring and converted the entire future stream of annual payments to nonrecurring dollars.
  - The heightened level of expected trust fund transfers may necessitate future budget reductions in the affected trustfunded programs in order to achieve this result. The Outlook includes a projected \$323.6 million of trust fund transfers compared to the long-range average of \$271.1 million.



# **Timing of Corrective Action**



Similar to the 2016 Outlook, this year's Outlook reveals actual shortfalls only in the two outer years. Among the many variables that should be considered is the timing of the corrective action.

While a fiscal strategy is required no later than FY 2019-20 to address the projected gap between revenues and expenditures, less disruptive courses of action would argue for at least some level of deployment beginning in FY 2018-19. Otherwise, there is the potential to increase funding for programs in Year 1 that would not survive Year 2.

# **Fiscal Strategies**

- Conceptually, there are five options to eliminate a proposed budget gap in any given year of the Outlook.
  - Budget Reductions and Reduced Program Growth
  - Reduction or Elimination of Revenue Adjustments Affecting Taxes and Fees in Tier 3
  - Revenue Enhancements and Redirections
  - Trust Fund Transfers or Sweeps
  - Reserve Reductions
- With the exception of trust fund transfers or sweeps and reserve reductions, these options can be deployed on either a recurring or nonrecurring basis.
   When they are used to bring about a recurring change, they also have an impact on the following fiscal years.
- The magnitude of the *recurring* shortfall cannot be fixed by nonrecurring solutions alone. A simple reduction in the level of reserves or trust fund transfers or sweeps (in excess of those included in Tier 3) will close the gap in a particular year; however, these strategies do not solve the recurring problem.
- The other three options will become the basis of more meaningful strategies.

### **Benefit of Time**

#### Tier 3 Projected Ending Balances

FY 2018-19	nd Revised Ending Ba	lance	
Aujustinent	Recurring	Nonrecurring	Tot
Adj	0.0	0.0	0.
End Bal	(265.0)	317.0	52.
FY 2019-20			
FY 2019-20			
FY 2019-20 Adjustment a	nd Revised Ending Ba	lance	
	nd Revised Ending Ba	lance Nonrecurring	Tot
			<i>Tot</i> 0.

Nonrecurring

0.0

37.8

Recurring

(1,677.4)

0.0

3

Adj

End Bal

<b>-</b> : :	_	•	-
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<b>Timing</b>	JUEII	uiiu	м

FY 2018-19			
Adjustment and Revised Ending Balance			
	Recurring	Nonrecurring	Total
Adj	(559.1)	189.6	(369.5)
End Bal	294.1	127.4	421.5

FY 2019-20			
Adjustment and Revised Ending Balance			
	Recurring	Nonrecurring	Total
Adj	(559.1)	189.6	(369.5)
End Bal	(28.1)	180.0	151.9

FY 2020-21			
Adjustment and Revised Ending Balance			
	Recurring	Nonrecurring	Total
Adj	(559.2)	189.7	(369.5)
End Bal	0.0	0.0	0.0

 Timing Scenario "A" takes full advantage of the upcoming Session to improve the outlook for the two subsequent years.

Total

0.0

(1,639.6)

- Other scenarios that focus more on the second year are also feasible, but to the
  extent the corrective actions are delayed, they will result in a more intense and
  concentrated effort to produce the required savings in FY 2019-20.
- At the extreme edge of this subset of options would be a total delay of corrective actions until Year 2 (FY 2019-20) will result in the need to clear the projected shortfalls of \$1.23 billion (Tier 2) or \$1.15 billion (Tier 3).

### **Black Swans**

"Black Swans" are low probability, high impact events:

- A severe natural disaster that stresses the state's reserves.
  - 2004 and 2005 Hurricane Seasons cost more than they generated in revenue.
  - Budget Stabilization Fund balance will be nearly \$1.42 billion in FY 2017-18, and General Revenue Reserve is nearly \$1.46 billion.

	Florida Landfall	<b>Nominal State</b>
Year	Strength	\$'s
2004		
Jeanne	3	\$790.7 million in
Charley	4	added cost vs.
Frances	2	\$751.9 million in
Ivan	3	added revenue
2005		
Dennis	3	\$625.4 million in
Wilma	3	added cost vs.
Katrina	1	\$422.1 million in
Rita	2	added revenue
2016		
Hermine	1	
Matthew	No Landfall	

#### Andrew, 1992

Category 5 – Miami, Miami-Dade County \$26.5 billion in Florida damages (ranked as the 4<sup>th</sup> most costliest in the US) In 2017 dollars: \$45.91 billion in damages

#### <u>Charley</u>, 2004

Category 4 – Ft. Myers, Lee County \$13.5 billion in Florida damages In 2017 dollars: \$17.4 billion in damages

#### Wilma, 2005

Category 3 – Naples, Collier County & Key West, Monroe County \$20.6 billion in Florida damages
In 2017 dollars: \$25.37 billion in damages

### **Hurricanes: Economic Phases**

Phase	Defining Characteristics	Statewide Economic Consequences
Preparatory Phase (approximately 72 hours in advance of the hurricane to landfall)	<ul> <li>Purchase of Emergency Supplies (canned food, batteries, radios, candles, flashlights, charcoal, gas, propane, water, ice, shutters, boards / plywood, etc.)</li> <li>Evacuation Expenses         <ul> <li>In-Statehotels and lodging, transport costs</li> </ul> </li> </ul>	DemandLocalized increase in demand for specific items, and potential non -affected a rea increase in lodging demand, but largely undetectable  State BudgetShifting of costs from normally provided
	like rental cars and gas  Out-of-Stateleakage	services to emergency management, as well as unanticipated overtime and shelter costs
Crisis Phase	December 1 of the first of the state of the	State RevenuesSlight uptick, but largely undetectable
(landfall to several weeks after landfall)	<ul> <li>Rescue and relief efforts (largely public, charitable , or free)</li> <li>Roads closed due to debris</li> </ul>	<b>Demand</b> Localized decrease in overall demand; significance depends on the event
wooke alter landally	<ul> <li>Private structures and public infrastructure damaged</li> <li>Utility disruptions</li> <li>Businesses and non-essential parts of government closed</li> </ul>	State BudgetGovernment agencies provide goods and services and incur new expenditures that may or may not be matched at a later time by the federal government
	<ul> <li>Temporary homelessness</li> <li>Violence and looting</li> </ul>	State RevenuesDetectable downtick; significance depends on the event
Recovery Phase (subsequent to the	Increased spending related to deductibles, repair , and replacement	<b>Demand</b> Localized increase in overall demand, and prices likely increase for some items
Crisis Phase and generally lasting up to two or three years)	<ul> <li>Private Savings / Loans</li> <li>State Spending</li> <li>FEMA and Federal Spending</li> <li>Insurance Payments</li> </ul>	EmploymentWill temporarily see gains as relief and recovery workers move into the area
	<ul> <li>Competition for scarce resources (contractors, roofers, supplies, construction workers, building</li> </ul>	State BudgetReallocation of state and local government spending to the affected area
	materials, debris removal, etc.)	State RevenuesDiscernible and significant uptick
Displacement Phase (subsequent to the	Reduction in normal purchasing behavior for items that were bought or replaced ahead of schedule	<b>Demand</b> Localized decrease in overall demand, but largely undetectable at the state level
Recovery Phase and lasting from two to six years)	<ul> <li>Demographic and labor shifts related to dislocated households and economic centers</li> </ul>	State Revenues Slight downtick, but largely undetectable