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# Stress Testing the Utah State Budget

Executive Appropriations Committee

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Jonathan Ball, Legislative Fiscal Analyst

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## Why?

1. Manage the business cycle
2. Set sustainable expectations and meet them
3. Avoid crisis-driven policy decisions

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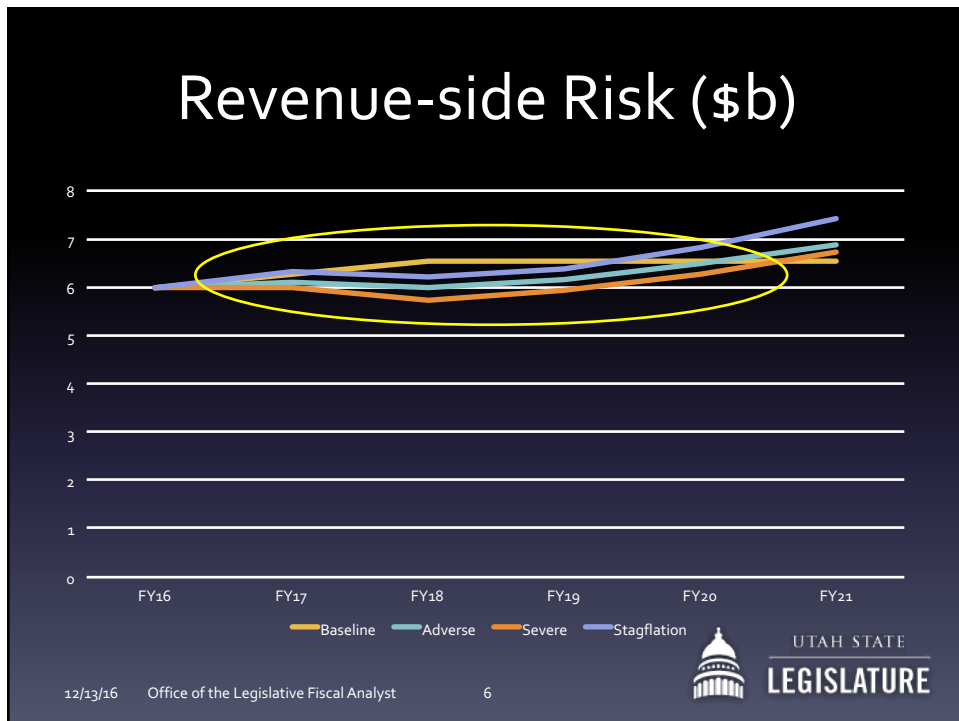
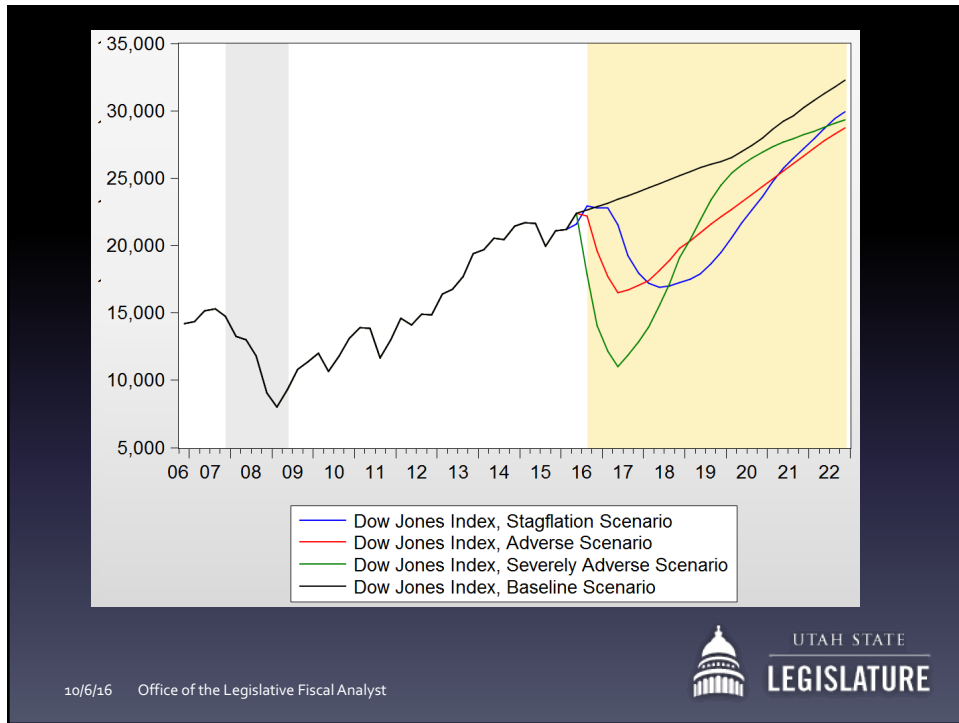
# How? Revenues



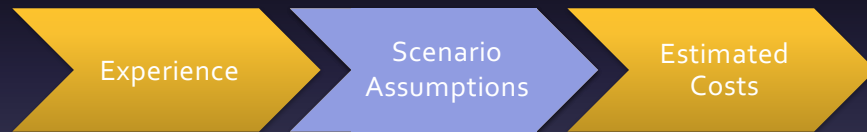
## New on the Revenue Side

- Used “what if” economic scenarios purchased from Moody’s Analytics
  - Fed DFAST Adverse
  - Fed DFAST Severely Adverse
  - Stagflation
- Expanded from two to five year timeframe
- Assumes baseline grows for 12 months after recession begins, then flattens as governments begin to respond





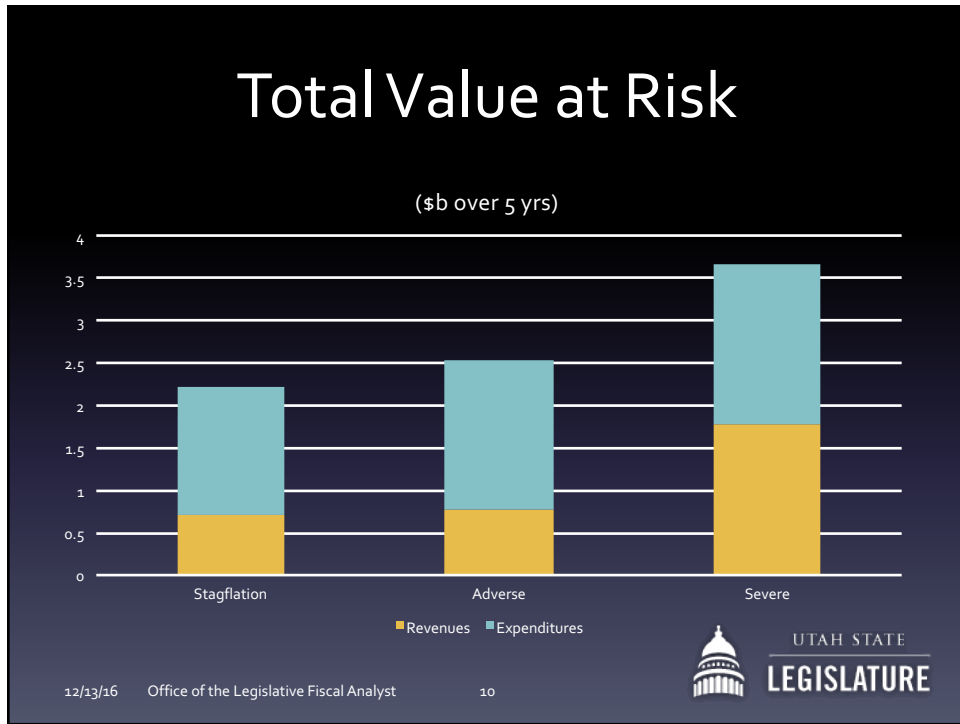
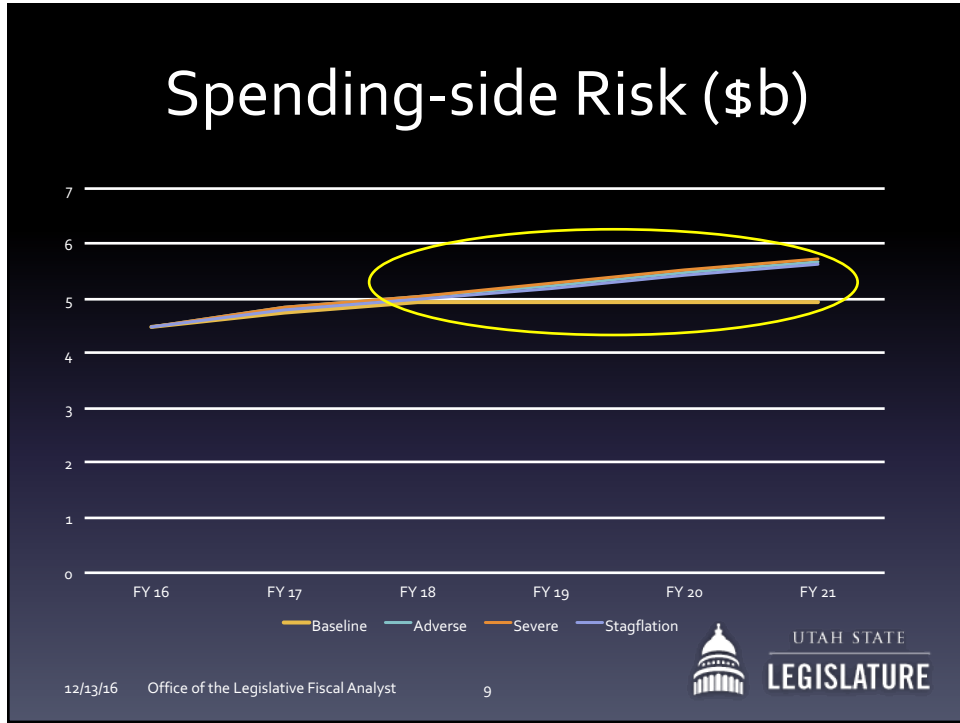
# How? Expenditures



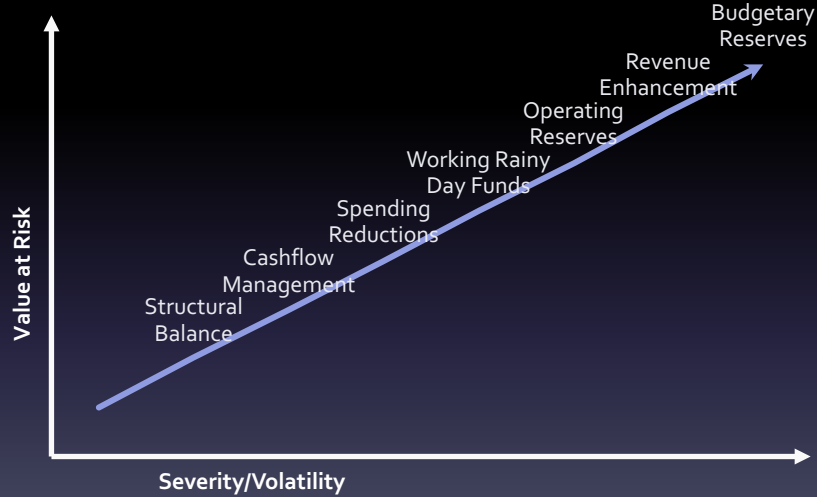
## New on the Spending Side

- Same new scenarios and timeframe as revenue side
- Modeled enrollment driven programs (Medicaid, higher ed, public ed), but added employee retirement costs





## It takes a tool kit.



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## New on Buffers

- Removed the Permanent School Fund as a potential buffer
- Counted ongoing sources for every year in which they are available, adjusted for debt repayment in early years
- Considered cuts and tax increases

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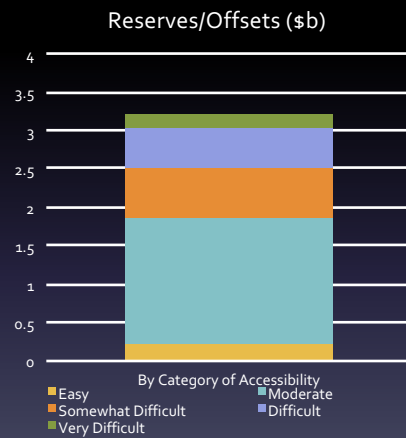
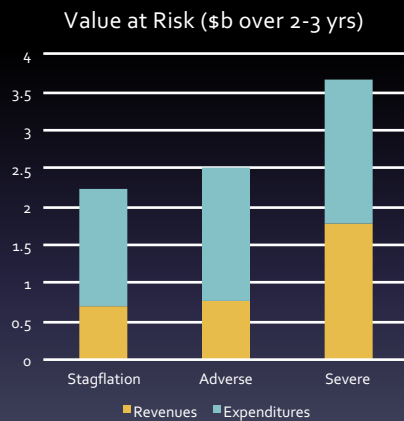
# Inventory of Buffers

- **Easily Accessible:** Unappropriated balances, operating reserves, buildings working rainy day fund
- **Moderately Accessible:** Nonlapsing balances, roads working rainy day fund, capital improvements relief valve
- **Somewhat Difficult to Access:** Capital improvements corpus, restricted fund balances
- **Difficult to Access:** Formal rainy day funds
- **Very Difficult to Access:** Permanent trust funds

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# Risk vs. Buffers



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# Cuts and Taxes

Session	FY	Budget	Revenue	Revenue	Shortfall	Cut %	Rev %	GF/EF Budget	Cut %	Rev
		Cuts	Increases	Multiplied		Shortfall	Shortfall		% Budget	
2008S2	2009	\$161			\$354	45.5%	0.0%	\$5,574	2.9%	0.0%
2008S2	2010	\$251			\$272	92.3%	0.0%	\$5,413	4.6%	0.0%
2009	2009	\$116	\$2	\$6	\$521	22.3%	1.2%	\$5,413	2.1%	0.1%
2009	2010	\$317	\$59	\$177	\$685	46.3%	25.8%	\$5,162	6.1%	3.4%
2010	2010	\$70			\$208	33.7%	0.0%	\$4,845	1.4%	0.0%
2010	2011	\$75	\$43	\$43	\$482	15.6%	8.9%	\$4,770	1.6%	0.9%
		\$990	\$104	\$226	\$2,522	39.3%	9.0%	\$31,177	3.2%	0.7%

- 1% of baseline revenue used in scenarios = \$324 m



# Conclusions

- 5 year risk between \$2.3 b and \$3.7 b
- Informal buffers = \$2.5 b
- Formal buffers = \$0.5 b
- Cuts/Revenue ~ \$0.3 b - \$1.3 b
- Bonding erodes largest informal buffer (working rainy day fund)
- Working rainy day fund creates future commitments

