# IMPACT & 2023

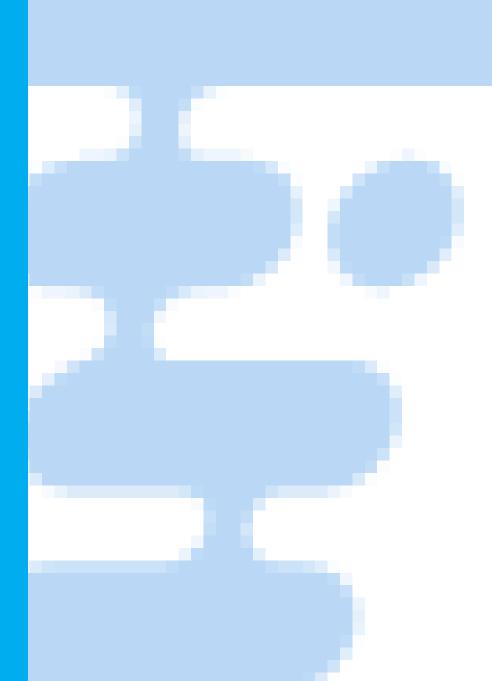
### **CORNERSTONE ANNUAL MEETING & COUNCIL FORUM**

**Current Expected Credit Losses (CECL) Implementation – We're Live!** 

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Trellance

**VP, Prescriptive Analytics** 



### Agenda

- CECL Timeline Update
- Methodology Selection
- Macroeconomic Impacts
- Strategies to Minimize Volatility
- Preparing for the Audit
- Budgeting Considerations
- Leveraging your CECL Data

### What is CECL? (🔱)



#### **New Credit Loss Methodology**

- Life of Loan Losses
- **Leverages Existing Credit** Management Practices
- Forward Looking Information





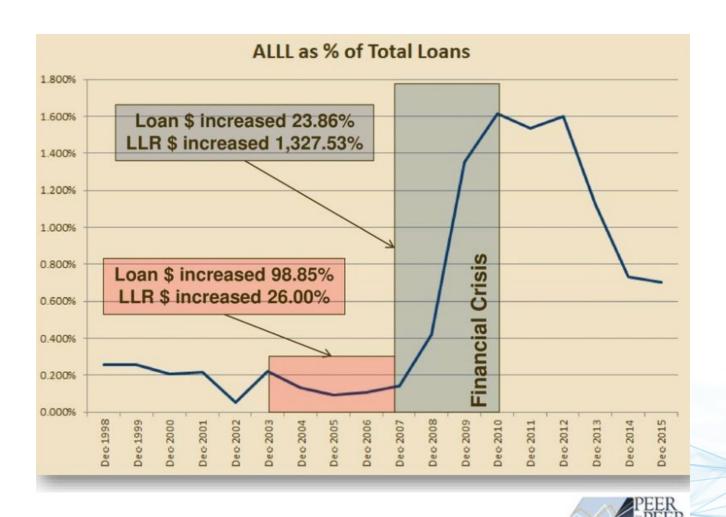
### Why CECL?

#### **Proposed following the Great Recession**

#### **Financial institutions were**

- Under reserved going into recession
- Over reserved coming out

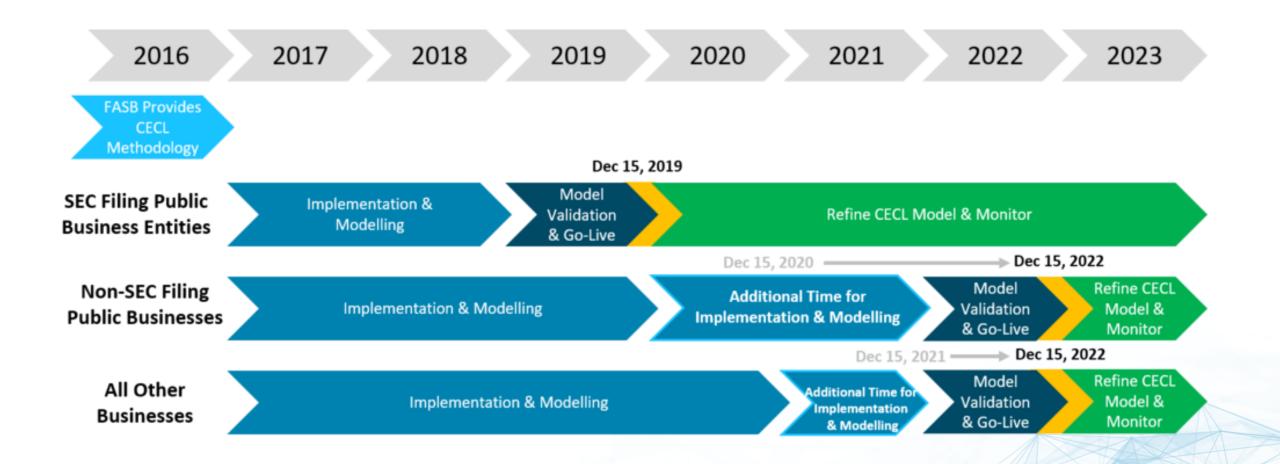
#### **Attempt to make reserves proactive**



Source: Callahan & Associates

### **Sample Implementation Timeline**





### **Methodology Selection and Implementation**



#### WARM

No Data

#### PD/LGD

Current Loan
Level Data

### Vintage

Historical Loan Level Data

#### Pros

- Easy to document and understand
- **Fast** implementation
- Utilizes high level data

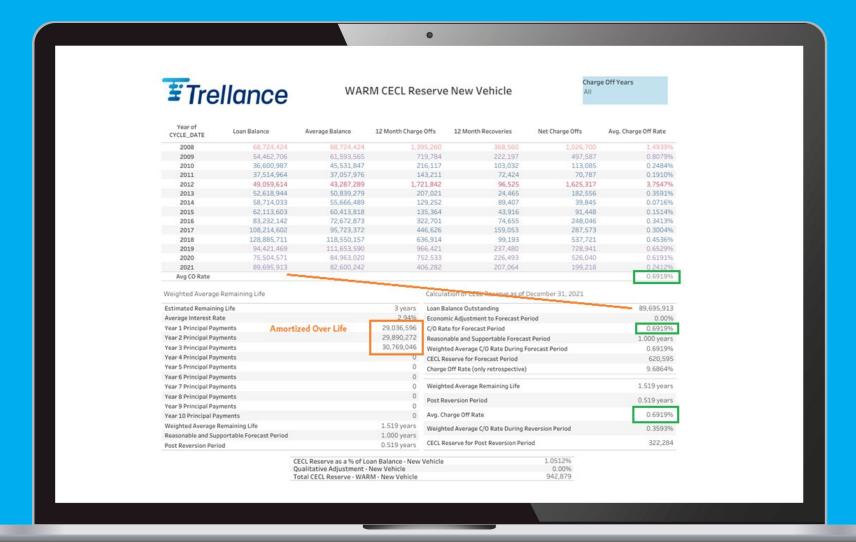
- Precise calculated at the loan level
- Utilizes industry level loss history
- **Easy** to document and understand
- Specific to your experience

#### Cons

- Imprecise
- **Ignores** changes in credit quality
- Black box
- Industry data may not reflect your credit union
- Less precise
- Requires historical data

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### **Weighted Average Remaining Maturity**



### **Vintage Pooling**

Table Type

#### Vintage Analysis - CECL

Allowance Group AUTO - DIRECT USED The table below illustrates your expected lifetime losses using a static pool methodology. For the purposes of this analysis, your loan portfolio is broken down into many different static pools. One for each Allowance Grouping (Portfolio Segment) and Vintage Year.

Report\_Date 12/31/2021

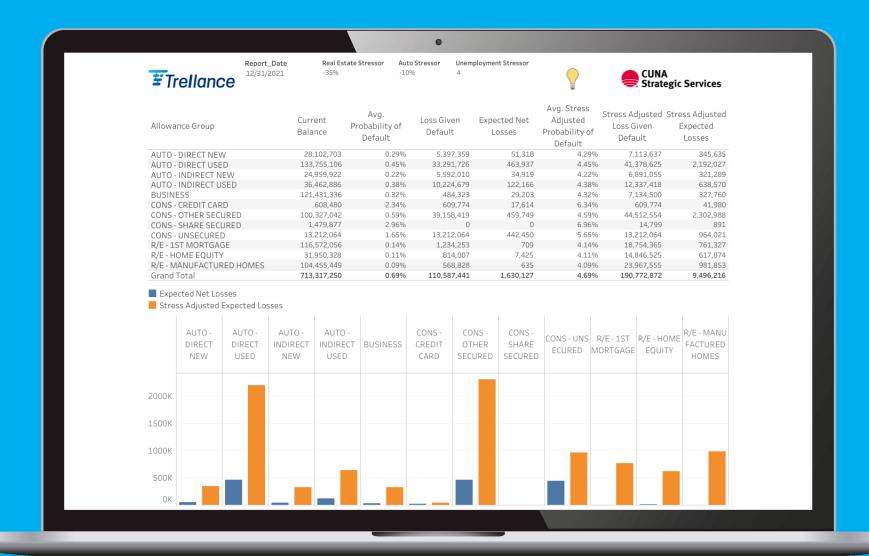
Note: The Vintage Calculation is performed at the portfolio segment level. It is not appropriate to aggregate multiple portal segments in calculating future losses.

	Historical Loss - Year 1	Historical Loss - Year 2	Historical Loss - Year 3	Historical Loss - Year 4	Historical Loss - Year 5	Historical Loss - Year 6	Historical Loss - Year 7
2012	0.00%	0.06%	0.37%	0.63%	0.11%	0.15%	0.00%
2013	0.00%	1.18%	0.39%	0.81%	0.03%	0.03%	0.00%
2014	0.28%	0.61%	0.72%	0.06%	0.06%	0.01%	
2015	0.74%	0.72%	0.43%	0.13%	0.08%		
2016	0.32%	0.88%	0.53%	0.33%			
2017	0.61%	0.76%	0.74%				
2018	0.80%	0.58%					
2019	0.62%						
	Avg Yr	1 Avg Yr 2	Avg Yr 3	Avg Yr 4	Avg Yr 5	Avg Yr 6	Avg Yr 7
	0.429	0.69%	A 0.53%	0.39%	0.07%	0.06%	0.00%

	Original Balance	Current Balance	Expected Loss - Year 1	Expected Loss - Year 2	Expected Loss - Year 3	Expected Loss - Year 4	Expected Loss - Year 5	Expected Loss - Year 6	Expected Loss - Year 7	Vintage Expected Losses
2014	59,043,535	0	0	0	0	0	0	0	0	0
2015	63,497,260	99,628	0	0	0	0	0	752	0	752
2016	60,967,085	755,418	0	0	0	0	711	26,430	0	27,141
2017	45,393,186	2,626,995	0	0	0	3,513	21,646	29,294	0	54,453
2018	47,655,252	7,928,249	0	0	5,116	125,531	33,406	30,754	0	194,806
2019	54,717,132	20,046,368	0	7,499	201,382	213,506	38,357	35,311	0	496,055
2020	79,057,478	50,124,111	5,905	369,324	A*B 418,965	308,482	55,419	51,018	0	1,209,114
2021	59,143,700 B	52,174,337	148,339	405,329	313,432	230,779	41,460	38,167	0	1,177,506
Grand Total	469,474,629	133,755,106	154,244	782,152	938,895	881,811	190,999	211,726	0	3,159,827

### 

### Probability of Default (PD) Loss Given Default (LGD)



### **Budgeting for CECL**



Consistent Portfolio	Current Balance	ALLL - BoY	Charge Offs	Provision Expense	ALLL - EoY	Retained Earnings
12/31/2021	100,000	1,000	-1,000	1,000*	1,000	10,000
12/31/2022	100,000	1,500	-1,000	1,000	1,500	9,500
12/31/2023	100,000	1,500	-1,000	1,000	1,500	9,500

\*Pre CECL

Increased Risk

Growing Portfolio

### \*

### **Budgeting for CECL –** Credit Card Delinquency



## Planning and Budgeting Considerations

- Benefits of a big prior period adjustment
  - Never hits income
  - Impact to net worth phased in over 3 years

- Growth and ROA now in conflict
  - Communicate this conflict to EVERYONE
  - Consider adjustments to KPIs





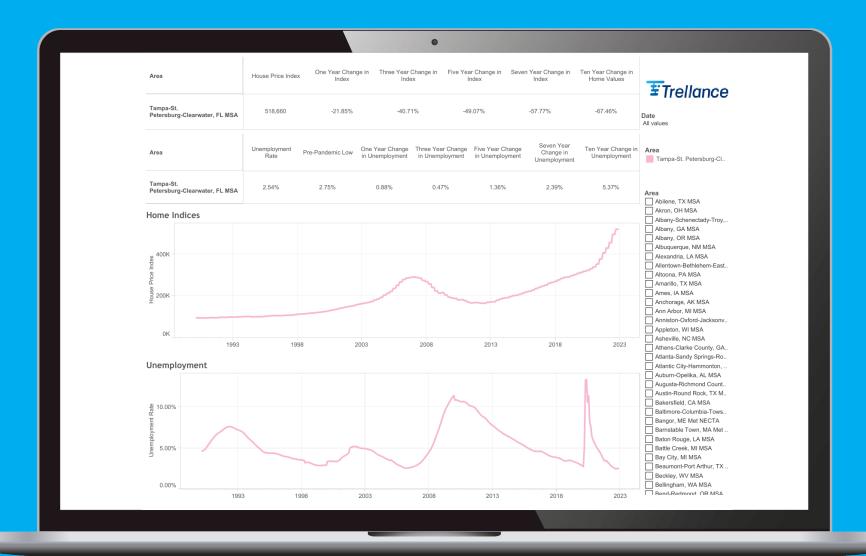
# **CECL Policy Hacks –**Mitigating Volatility



- Use objective verbiage
- Quantify aggressively and reserve conservatively
- Use peak to trough real estate adjustments
- Adjust assumptions move inversely to actual results (revert to mean)

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### **Macroeconomic Adjustments**



### **CECL Policy Hacks – Mitigating Volatility**



Consider Including Subjectivity Thresholds

Beginning of Month ACL 31,000,000 December CECL Reserve

Less: Loans Charged Off 750,000

Pre-Entry ACL 30,250,000

Calculated ACL 30,000,000 January CECL Reserve

Possible Option A

Calculated Provision

Expense/(Benefit) (250,000) 0.8%

Provision Expense in January 0

Current ACL is within 5% of requirement. Citadel deems this to be an immaterial difference within policy limits and does not require an entry as of January 31, 2022

Possible Option B

Change in Required ACL (1,000,000) -3.2%

Smoothed ACL 30,666,667

Provision Expense in January 416,667

Current ACL is within 5% of requirement. Per Citadel's CECL Policy, we will elect to phase in the overall change over a 90 day period using a straight line methodology.

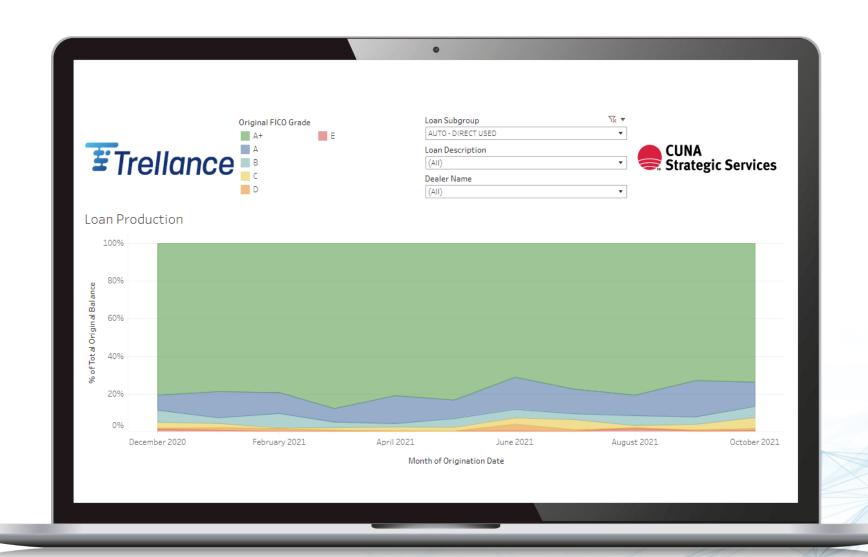
### **Qualitative Adjustments**

- How do we address other qualitative adjustments?
  - Lending policies and procedures
  - Macroeconomic conditions
  - Nature and volume of the loan portfolio
  - Experience of staff
  - Volume and severity of past due loans
  - Loan review system
  - Value of collateral
  - Changes in concentrations
  - Other external factors (competitive/legal/regulatory)



### **Adjusting for Changes in Credit Quality**





### Adjusting for a Severe Recession





### CECL Reserve Summary

12/31/2021

PeerGroupName	CECL Model Selected	Original Balance (\$ 000s)	Current Balance (\$ 000s)	Expected Net Losses	Vintage Adj. Expected Losses	Qualitative Economic Adjustment	Weighted Scenario Adjustment	CECL Reserve	% of Loans
AUTO - DIRECT NEW	Vintage Q	82,204.8	28,102.7	51,318	91,899	96,651	0.34%	188,550	0.67%
AUTO - DIRECT USED	Vintage Q	469,474.6	133,755.1	463,937	2,622,485	594,245	0.4496	3,216,730	2.40%
AUTO - INDIRECT NEW	Vintage Q	140,511.7	24,959.9	34,919	168,467	100,472	0.40%	268,938	1.08%
AUTO - INDIRECT USED	Vintage Q	148,144.7	36,462.9	122,166	425,061	182,749	0.50%	607,810	1.6796
BUSINESS	PD	147,866.6	121,431.3	29,203	2,844,032	8,258	0.01%	37,461	0.03%
CONS - CREDIT CARD	Vintage Q	0.0	608.5	17,614	0	10,965	1.80%	10,965	1.80%
CONS - OTHER SECURED	Vintage Q	193,869.8	100,327.0	459,749	4,246,190	699,070	0.70%	4,945,259	4.93%
CONS - SHARE SECURED	Vintage Q	4,667.4	1,479.9	0	316,149	0	0.00%	316,149	21.36%
CONS - UNSECURED	Vintage Q	64,902.4	13,212.1	442,450	602,300	234,707	1.78%	837,007	6.34%
R/E - 1ST MORTGAGE	PD	405,040.9	116,572.1	709	4,736	22,217	0.02%	22,926	0.0296
R/E - HOME EQUITY	PD	78,648.7	31,950.3	7,425	314	14,541	0.05%	21,966	0.07%
R/E - MANUFACTURED HOMES	PD	82,141.6	104,455.4	635	0	10,239	0.0196	10,874	0.01%
Grand Total		1,817,473.3	713,317.2	1,630,127	11,321,633	1,974,112	0.28%	10,484,636	1.47%





### Thank you!

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