## 6c. Liquidity Management

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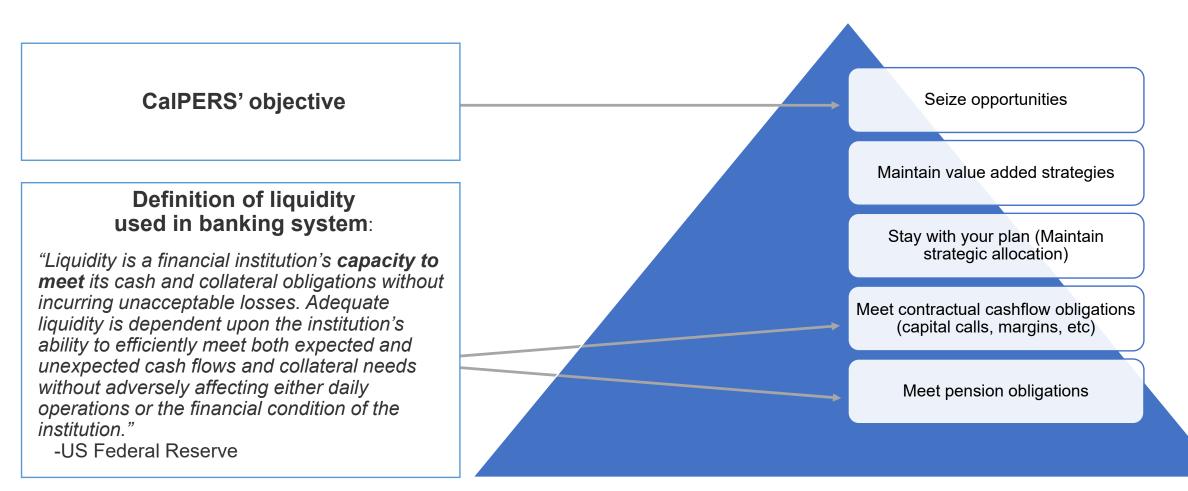
- 1. Describe the goal of liquidity management at CalPERS and the trade-offs
- 2. Review the liquidity available within our existing portfolio
- 3. Provide an overview of our liquidity management process



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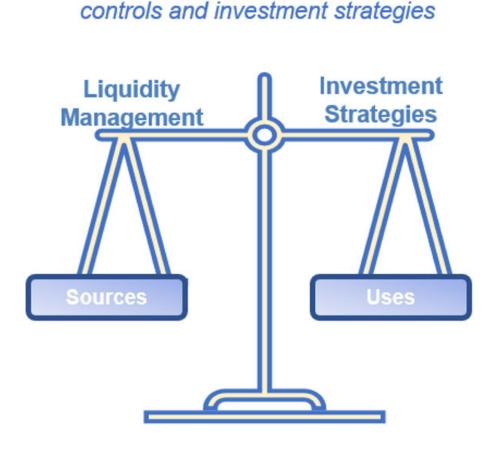


## CalPERS liquidity goal is larger than meeting cashflow obligations





## Managing liquidity includes managing tradeoffs



Deliberate balance between liquidity

Liquidity management seeks to strike a balance between having:

- Excess liquidity: Costly as it poses a return drag
- Insufficient liquidity: Dangerous as it could impact ability to stay with strategies or require forced sale of assets



#### 6c. Liquidity Management

#### November 2022 Investment Committee

## Private assets require more careful liquidity management

- Private and less liquid assets that provide diversification and return enhancements are often associated with lower liquidity
- Conversely, certain public assets enhance liquidity by acting as a ready source of financing

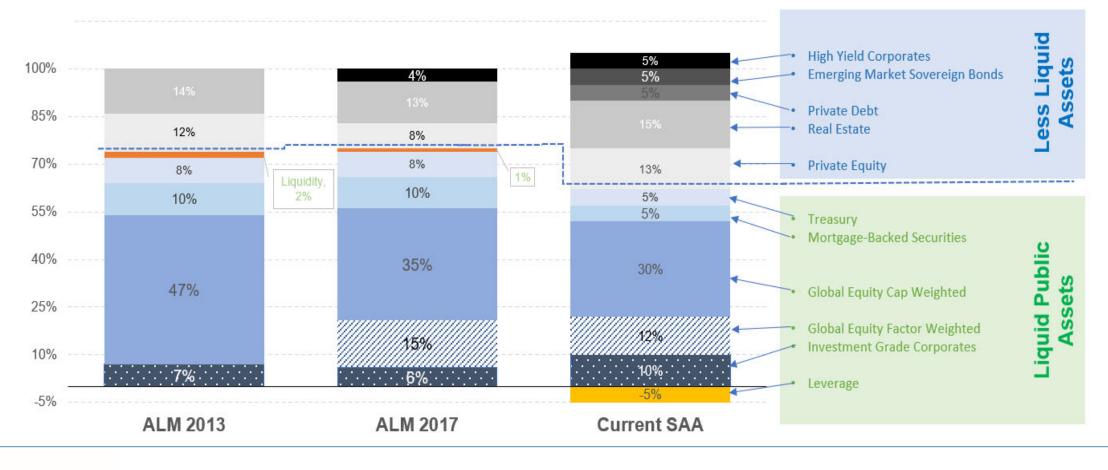




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#### CalPERS portfolio has evolved in complexity Recently adopted SAA takes greater advantage of CalPERS' available liquidity, but requires more careful management



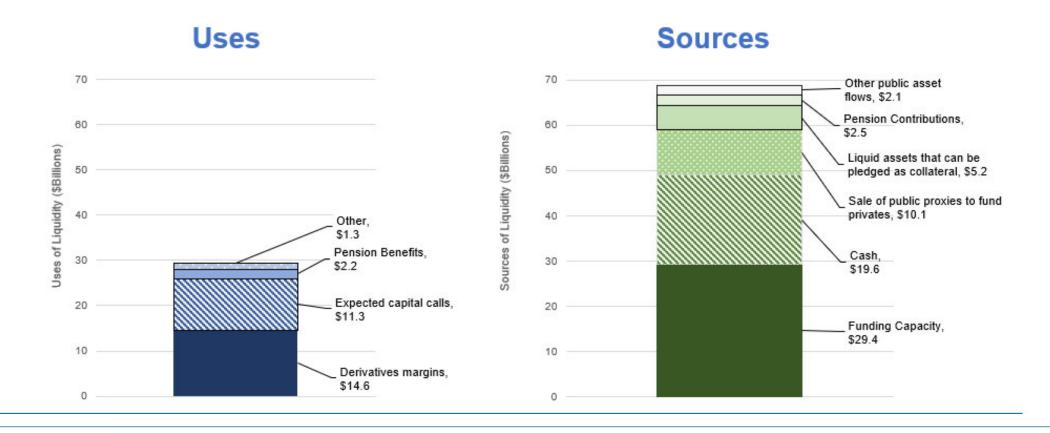


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**CalPERS** 

### Liquidity uses and sources are stress tested

- The chart shows current expected 30-day Tier 1 PERF liquidity in a stress scenario
- Liquidity varies day to day, but this snapshot is representative of current management practices

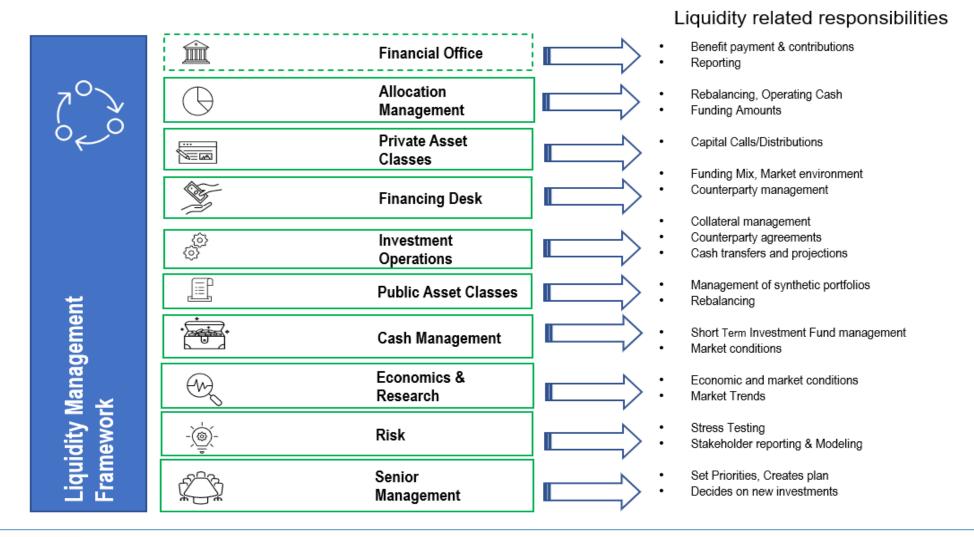


Note: The graph represents 30 day Tier 1 coverage

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#### Liquidity management involves the whole organization





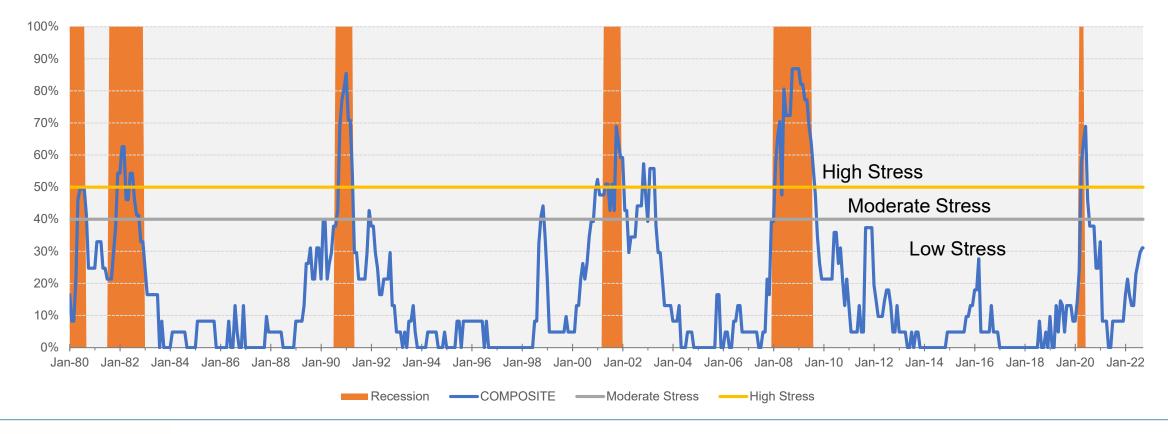
## CalPERS' liquidity framework has evolved in the past decade

1	~10 Years Ago	Today
Access	Distributed cash management	Internally managed Short Term Investment Fund enhances cash efficiency (2016)
	<ul> <li>Limited access to internal pools of liquidity</li> </ul>	<ul> <li>Policy and processes to share liquidity across PERF sources (2013)</li> </ul>
	<ul> <li>Siloed access to external funding markets</li> </ul>	<ul> <li>Permanent, highly scalable financing via synthetic Equity and Treasury portfolios (2020)</li> <li>Standing access to 19+ dealer repo lines</li> <li>Centralized team manages all financing and dealer relationships (2017)</li> </ul>
	<ul> <li>Inconsistent funding for private assets</li> </ul>	<ul> <li>Formalized mapping of saleable public asset classes for each private program provides consistent access to funding (2020)</li> </ul>
Risk Management	Information gaps	<ul> <li>Consolidated cashflow monitoring platform shared with FINO (2017)</li> <li>Centralized liquidity dashboard integrates asset class and top-down perspectives (2019)</li> </ul>
	<ul> <li>Informal counterparty management</li> </ul>	<ul> <li>Derivatives and Counterparty Committee and formalized monitoring process (2013)</li> </ul>
	<ul> <li>Securities lending used as funding source</li> </ul>	<ul> <li>Securities lending managed separately from financing activities (2010)</li> </ul>
	Distributed governance of leverage	<ul> <li>Coherent single total fund policy for leverage with related reporting and management processes (2019)</li> </ul>



# CalPERS monitors financial conditions with a variety of tools

- In addition to day-to-day monitoring by staff, economic and market conditions are systematically tracked through a combination of proprietary and public indicators
- The chart below is an example of an indicator used in management of the cash portfolio





## Closing comments

- The goal of liquidity management at CalPERS is not just to meet cashflow obligations, but to ensure we can maintain our investment strategies and take advantage of opportunities
- Liquidity management is an important tool for a diversified portfolio strategy, including managing leverage and higher allocations to less-liquid assets
- CalPERS' framework has evolved since the global financial crisis to take advantage of our scale and to support a more complex portfolio

