

# COUNTY OF HUMBOLDT MISCELLANEOUS AND SAFETY PLANS

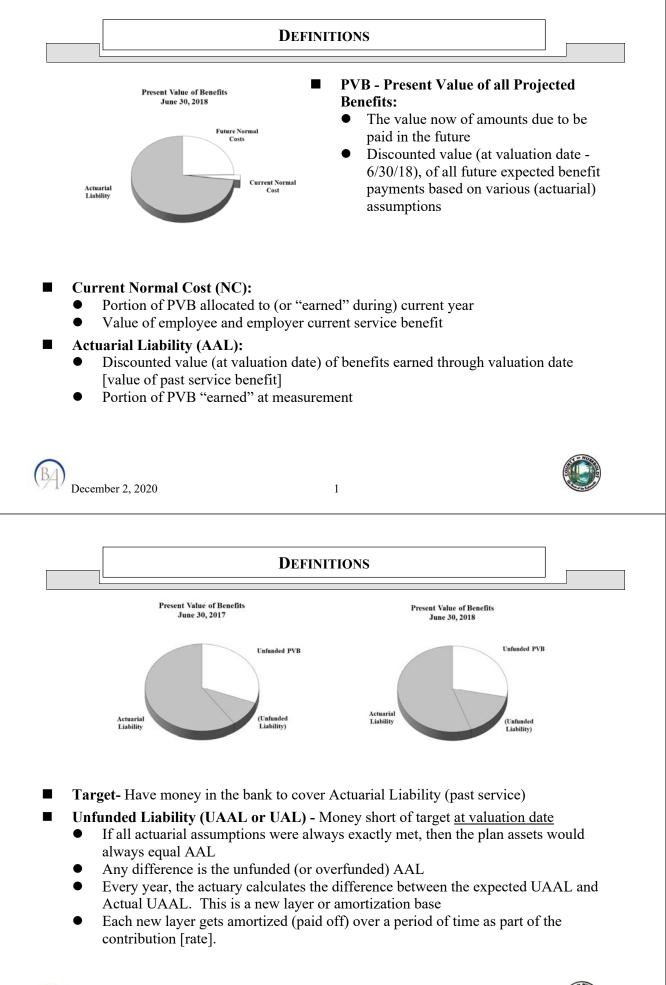


CalPERS Actuarial Issues – 6/30/18 Valuation Preliminary Results

**Doug Pryor, Vice President** Bianca Lin, Assistant Vice President Matthew Childs, Actuarial Analyst **Bartel Associates, LLC** 

December 2, 2020

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# HOW WE GOT HERE

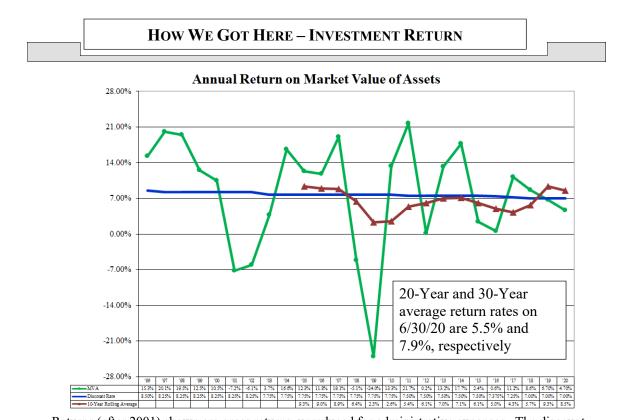
- Investment Losses
- CalPERS Contribution Policy
- Enhanced Benefits
- Demographics



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Returns (after 2001) shown are gross returns, unreduced for administrative expenses. The discount rate is based on expected returns net of administrative expenses.



# HOW WE GOT HERE - OLD CONTRIBUTION POLICY

- Effective with 2003 valuations:
  - Slow (15 year) recognition of investment losses into funded status
  - Rolling 30 year amortization of all (primarily investment) losses
- Designed to:
  - First smooth rates and
  - Second pay off UAL
- Mitigated contribution volatility



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# HOW WE GOT HERE - ENHANCED BENEFITS

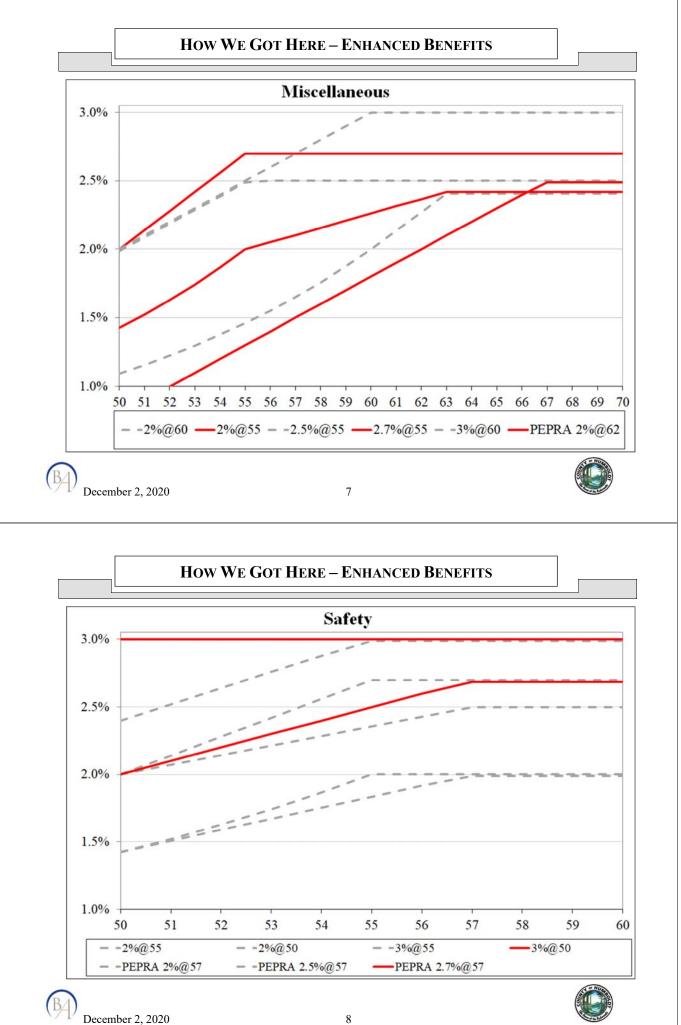
At CalPERS, Enhanced Benefits implemented using all (future & prior) service

- Typically not negotiated with cost sharing
- County of Humboldt

	Tier 1	Tier 2	PEPRA
Miscellaneous	2.7%@55 FAE1	2%@55 FAE3	2%@62 FAE3
Safety County Peace Officers	3%@50 FAE3	N/A	2.7%@57 FAE3
Safety Fire	3%@50 FAE1	N/A	2.7%@57 FAE3

- Note:
  - □ FAE1 is highest one year (typically final) average earnings
  - □ FAE3 is highest three years (typically final three) average earnings
- PEPRA tier implemented for new employees hired after 1/1/13
  - Employee pays half of total normal cost
  - 2020 Compensation limit
    - □ Social Security participants: \$126,291
    - □ Non-Social Security participants: \$151,549





- Around the State
  - Large retiree liability compared to actives
    - □ State average: 56% for Miscellaneous, 65% for Safety
  - Declining active population and increasing number of retirees
  - Higher percentage of retiree liability increases contribution volatility
- County of Humboldt percentage of liability belonging to retirees:
  - Miscellaneous 62%
  - Safety 62%



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# CALPERS CHANGES

- Recent contribution policy changes:
  - No asset smoothing
  - No rolling amortization
  - 5-year ramp up
- February 2018: CalPERS adopted new amortization policy
  - Applies only to newly established amortization bases
    - ▶ Fixed dollar amortization rather than % pay
    - Amortize gains/losses over 20 rather than 30 years
    - ➢ 5-year ramp up (not down) for investment gains and losses
    - No ramp up/down for other amortization bases
  - Minimizes total interest paid over time and pays off UAL faster
  - Effective June 30, 2019 valuation for 2021/22 contributions
- CalPERS Board changed the discount rate:

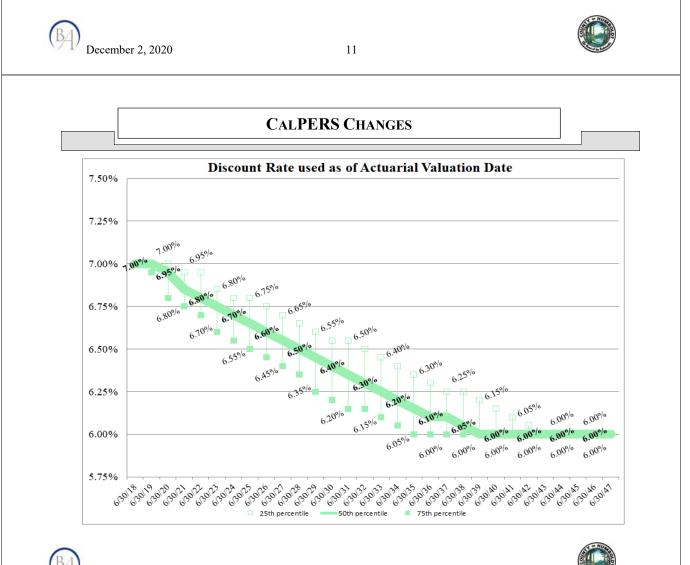
		Rate	Initial Impact	<u>Full Impact</u>
ullet	6/30/16 valuation	7.375%	18/19	22/23
ullet	6/30/17 valuation	7.25%	19/20	23/24
•	6/30/18 valuation	7.00%	20/21	24/25



### CALPERS CHANGES

Risk Mitigation Strategy

- Move to more conservative investments over time to reduce volatility
- Only when investment return is better than expected
- Lower discount rate in concert
- Essentially use  $\approx 50\%$  of investment gains to pay for cost increases
- Likely get to 6.0% discount rate over 20+ years
- Risk mitigation suspended from 6/30/16 to 6/30/18 valuation
- Did not trigger for 6/30/19 valuation



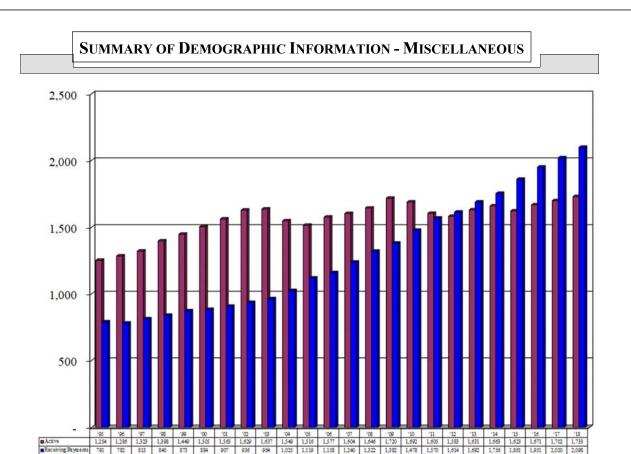
## **SUMMARY OF DEMOGRAPHIC INFORMATION - MISCELLANEOUS**

	1997	2007	2017	2018
Actives				
■ Counts	1,323	1,604	1,702	1,733
■ Average				
• Age	45	48	46	46
County Service	8	9	9	8
PERSable Wages	\$ 26,300	\$ 43,000	\$ 51,800	\$ 51,900
Total PERSable Wages	34,800,000	69,000,000	88,100,000	90,000,000
Inactive Members				
■ Counts				
• Transferred	291	433	360	378
• Separated	311	686	1,055	1,109
Retired				
□ Service		994	1,741	1,807
Disability		120	115	112
Beneficiaries		126	164	179
□ Total	813	1,240	2,020	2,098
Average Annual County Provided				
Benefit for Service Retirees <sup>1</sup>		15,600	19,000	19,500

Average County-provided pensions are based on County service & County benefit formula, and are 1 not representative of benefits for long-service employees.

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1,254

Receive

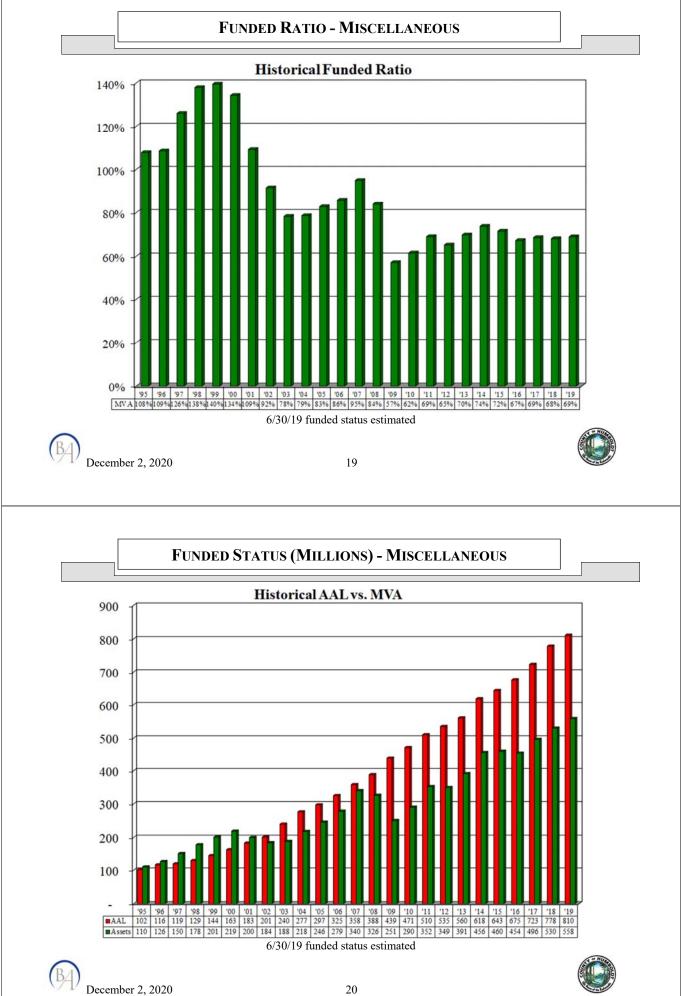


# PLAN FUNDED STATUS - MISCELLANEOUS

			<u>June 30, 2017</u>	<u>June 30, 2018</u>	
■ .	Actuarial Accrued	l Liability			
	• Active		\$240,200,000	\$246,300,000	
	• Retiree		436,600,000	479,500,000	
	• Inactive		46,500,000	52,400,000	
	• Total		723,300,000	778,200,000	
	Assets		496,100,000	<u>530,000,000</u>	
	Unfunded Liabilit	У	227,200,000	248,200,000	
	Funded Ratio		68.6%	68.1%	
	Average funded ra CalPERS Public A Miscellaneous Plan	Igency	72.7%	71.8%	
Decemb	per 2, 2020		15		
[			TUS - MISCELLANE		
\$900 -			ГUS - MISCELLANE(		
\$900 - \$800 -					
				ity (\$Millions)	48 M
\$800 - \$700 -			d Actuarial Liabili	ity (\$Millions)	48 M funded
\$800 - \$700 - \$600 -			d Actuarial Liabili	ity (\$Millions)	
\$800 - \$700 - \$600 - \$500 -			d Actuarial Liabili	ity (\$Millions)	
\$800 - \$700 - \$600 - \$500 - \$400 -			d Actuarial Liabili	ity (\$Millions)	
\$800 - \$700 - \$600 - \$500 -			d Actuarial Liabili	ity (\$Millions)	
\$800 - \$700 - \$600 - \$500 - \$400 -			d Actuarial Liabili	ity (\$Millions)	
\$800 - \$700 - \$600 - \$500 - \$400 - \$300 -			d Actuarial Liabili	ity (\$Millions)	
\$800 - \$700 - \$600 - \$500 - \$400 - \$300 - \$200 -		S Assets an	d Actuarial Liabili	ity (\$Millions)	
\$800 - \$700 - \$600 - \$500 - \$400 - \$300 - \$200 - \$100 -	County CalPERS	S Assets an AAL	Actuarial Liabili	ity (\$Millions)	
\$800 - \$700 - \$600 - \$500 - \$400 - \$300 - \$200 - \$100 -	County CalPERS	S Assets an	Actuarial Liabili	ity (\$Millions)	

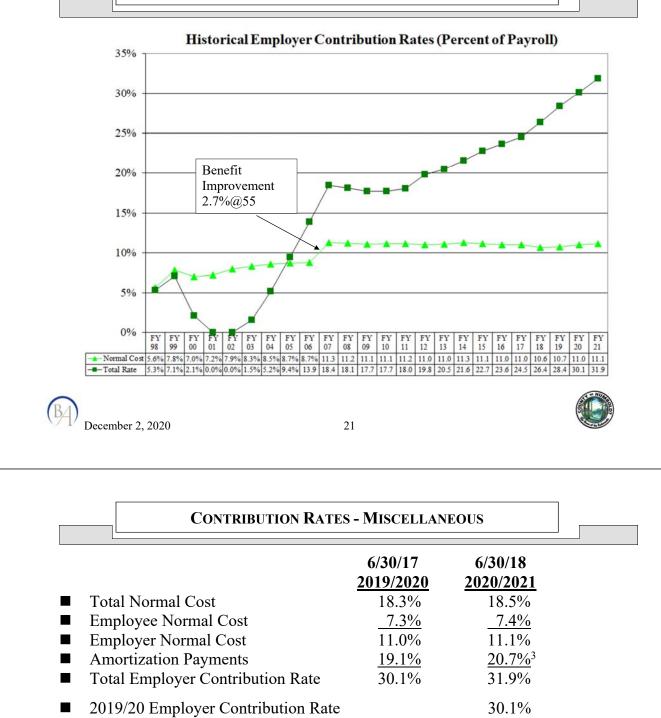
		MISCELLANEOUS	
	Discount Rate S	Sensitivity	
	June 30, 2	2018	
		Discount Rate	
	7.00%	<u>6.50%</u> <sup>2</sup>	<u>6.00%</u>
AAL	\$ 778,200,000	\$ 827,200,000	\$ 876,200,000
Assets	530,000,000	530,000,000	530,000,000
<b>Unfunded Liability</b>	248,200,000	297,200,000	346,200,000
<b>Funded Ratio</b>	68.1%	64.1%	60.5%
Estimated by Bartel Associates.	17		
December 2, 2020 PLAN F	UNDED STATUS - 1 Inded Accrued Li Vility on 6/30/17	ability Changes	\$227,200,000
December 2, 2020 PLAN F Unfu Unfunded Accrued Liab Expected 6/30/18 Unfunded	UNDED STATUS - 1 Inded Accrued Li Vility on 6/30/17	ability Changes	
December 2, 2020 PLAN Fi Unfu Unfunded Accrued Liab Expected 6/30/18 Unfunded Other Changes	UNDED STATUS - I Inded Accrued Li vility on 6/30/17 ded Accrued Lia	ability Changes	\$227,200,000 230,400,000
December 2, 2020 PLAN F Unfunded Accrued Liab Expected 6/30/18 Unfunded Other Changes • Asset Loss (Gain) (8.6	UNDED STATUS - 1 Inded Accrued Li Solity on 6/30/17 ded Accrued Lia % return for FY 2	<b>ability Changes</b> bility 018) (5,40	\$227,200,000 230,400,000 0,000)
December 2, 2020 PLAN Fi Unfunded Accrued Liab Expected 6/30/18 Unfunded Other Changes • Asset Loss (Gain) (8.6 • Assumption Change (E	UNDED STATUS - I Inded Accrued Li ility on 6/30/17 ded Accrued Lia % return for FY 2 DR 7.25% → 7%)	ability Changes bility 018) (5,40 20,00	\$227,200,000 230,400,000 0,000) 0,000
December 2, 2020 PLAN Fi Unfunded Accrued Liab Expected 6/30/18 Unfund Other Changes Asset Loss (Gain) (8.6 Assumption Change (E Method Change (Softward)	UNDED STATUS - I Inded Accrued Li bility on 6/30/17 ded Accrued Lia % return for FY 2 DR 7.25% → 7%) vare system)	<b>ability Changes</b> bility 018) (5,40 20,00 6,40	\$227,200,000 230,400,000 0,000 0,000 0,000
December 2, 2020 PLAN Fi Unfunded Accrued Liab Expected 6/30/18 Unfunded Other Changes • Asset Loss (Gain) (8.6 • Assumption Change (E	UNDED STATUS - I Inded Accrued Li bility on 6/30/17 ded Accrued Lia % return for FY 2 DR 7.25% → 7%) vare system)	<b>ability Changes</b> bility 018) (5,40 20,00 6,40	\$227,200,000 230,400,000 0,000 0,000 0,000 0,000
PLAN F Unfu Unfunded Accrued Liab Expected 6/30/18 Unfund Other Changes • Asset Loss (Gain) (8.6 • Assumption Change (I • Method Change (Softw • Contribution & Experio	UNDED STATUS - I inded Accrued Li oility on 6/30/17 ded Accrued Lia % return for FY 2 DR 7.25% $\rightarrow$ 7%) vare system) ence Loss (Gain)	<b>ability Changes</b> bility 018) (5,40 20,00 6,40	\$227,200,000 230,400,000 0,000 0,000 0,000







#### **CONTRIBUTION RATES - MISCELLANEOUS**



Equivalent to 8.1% of UAL. One year, 7% interest on the UAL is 17.9% of payroll.

0.2%

0.8%

0.2%

0.3%

1.2%

(0.9%)

31.9%

•

Payroll < Expected

Other (Gains)/Losses

2020/21 Employer Contribution Rate

6/30/14 Assumption Change (5<sup>th</sup> Year)

6/30/16 Discount Rate Change (3<sup>rd</sup> Year)

6/30/18 Discount Rate change (1<sup>st</sup> Year)

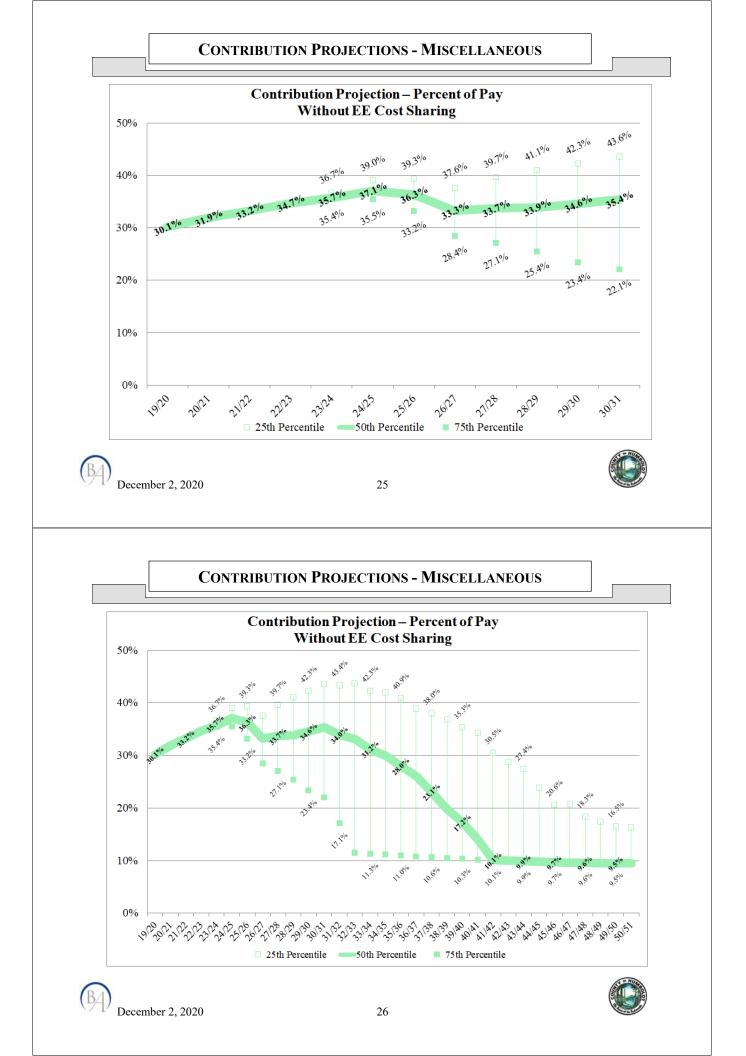
6/30/17 Discount Rate & Inflation (2<sup>nd</sup> Year)

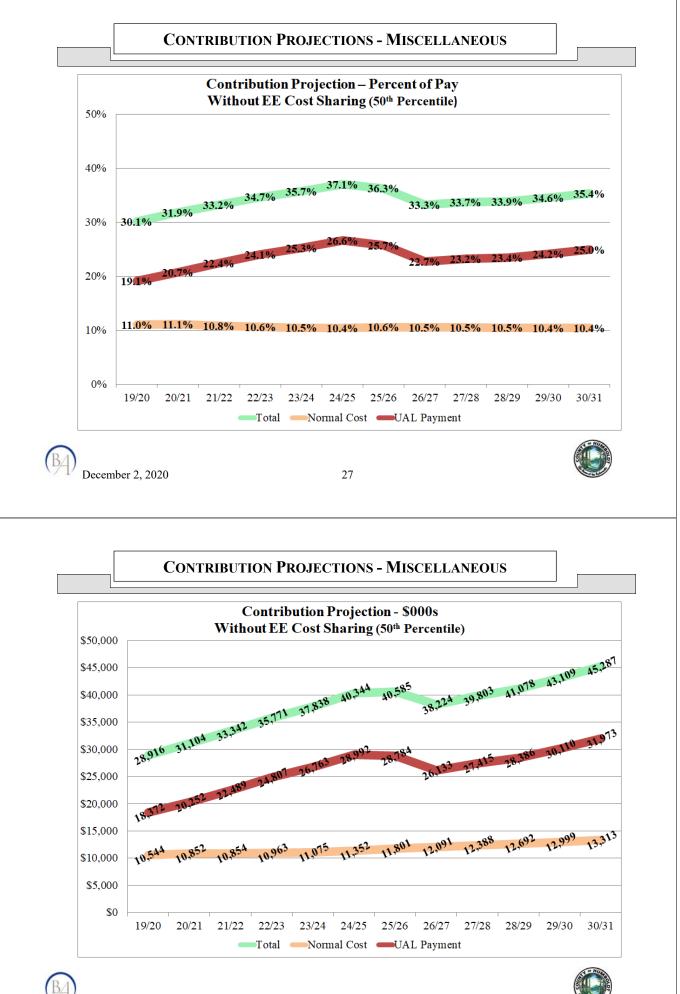
### **CONTRIBUTION PROJECTIONS - MISCELLANEOUS**

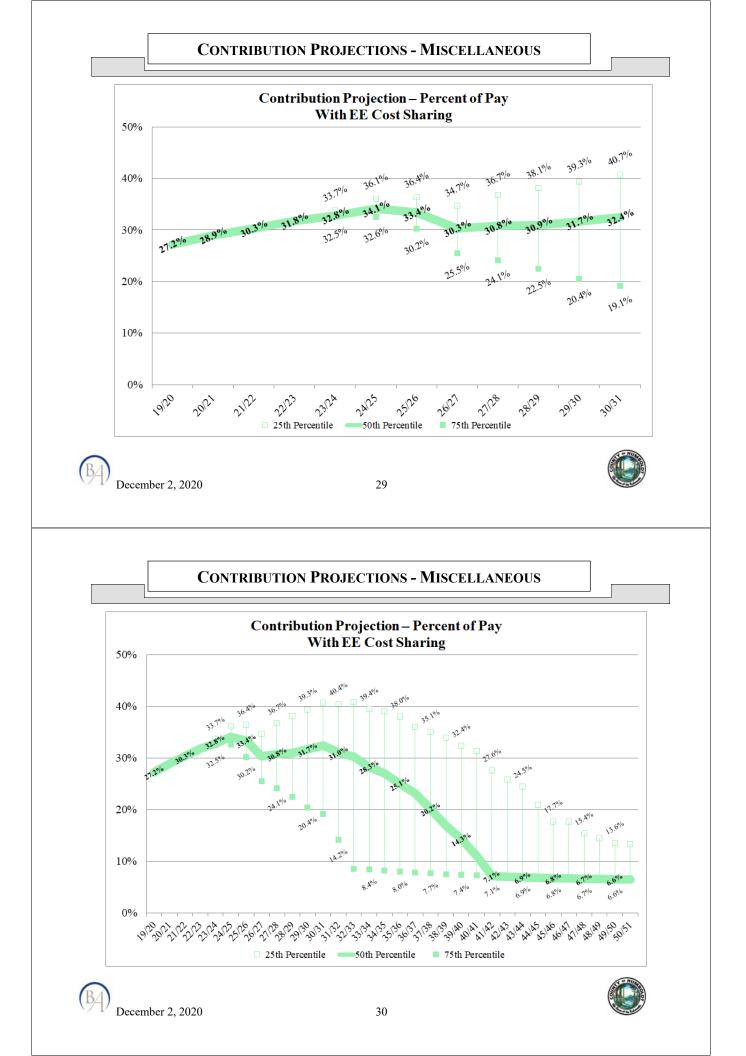
- Market Value Investment Return: June 30, 2019  $6.7\%^4$ June 30, 2020  $4.7\%^{5}$ Future returns based on stochastic analysis using 1,000 trials Single Year Returns at<sup>6</sup> 25<sup>th</sup> Percentile 50<sup>th</sup> Percentile 75<sup>th</sup> Percentile 14.8% Current Investment Mix 0.1% 7.0% 0.8% 6.0% Ultimate Investment Mix 11.4% Assumes investment returns will, generally be 6.5% (as compared to 7.0%) over the next 8 years and higher beyond that. Discount Rate decreases due to Risk Mitigation policy No Other: Gains/Losses, Method/Assumption Changes, Benefit Improvements Different from CalPERS projection Gross return based on July 2019 CalPERS press release Gross return based on July 2020 CalPERS press release N<sup>th</sup> percentile means N percentage of our trials result in returns lower than the indicated rates. December 2, 2020 23 **CONTRIBUTION PROJECTIONS - MISCELLANEOUS** New hire assumptions: 92.5% of 2019/20 new hires are PEPRA members and 7.5% are Classic members Percentage of PEPRA member future hires to increase from 92.5% to 100% over 3 years 6/30/18 employee distribution: **Benefit Tier** Count 6/30/18 Payroll 843 2.7%@55 FAE1 \$51,277,800
  - • 2%@55 FAE3
     129
     6,530,300

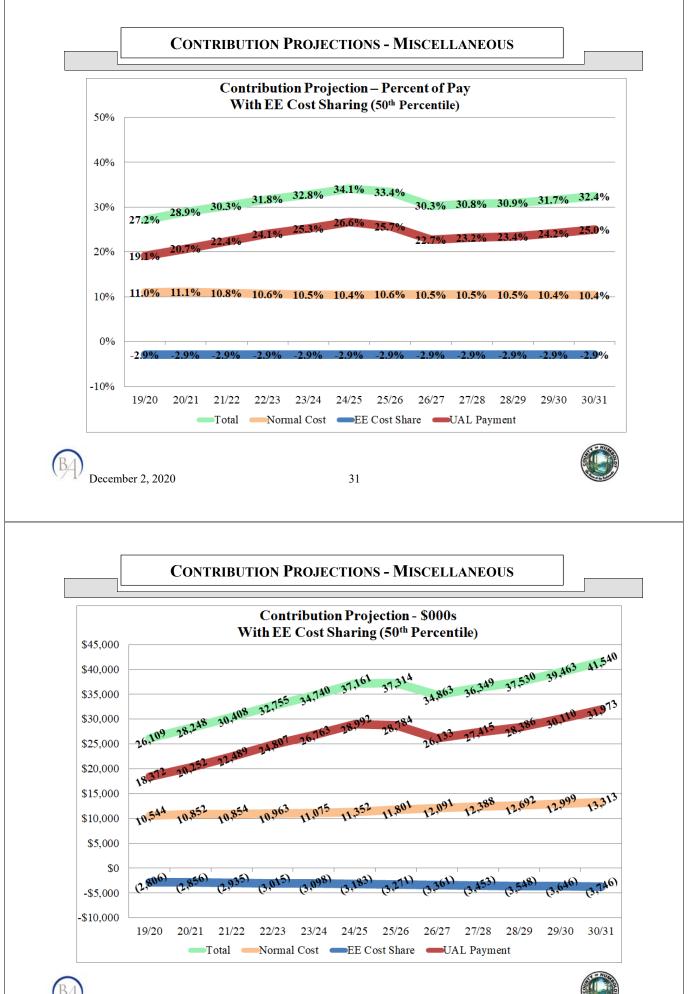
     • 2%@62 FAE3 (PEPRA)
     761
     32,319,200
  - Employee Cost-Sharing:
    - All Miscellaneous groups except CAA pay 3% of payroll of County rates
    - CAA employees pay 0% of County rates
    - CAA group is 2.5% of total Miscellaneous payroll

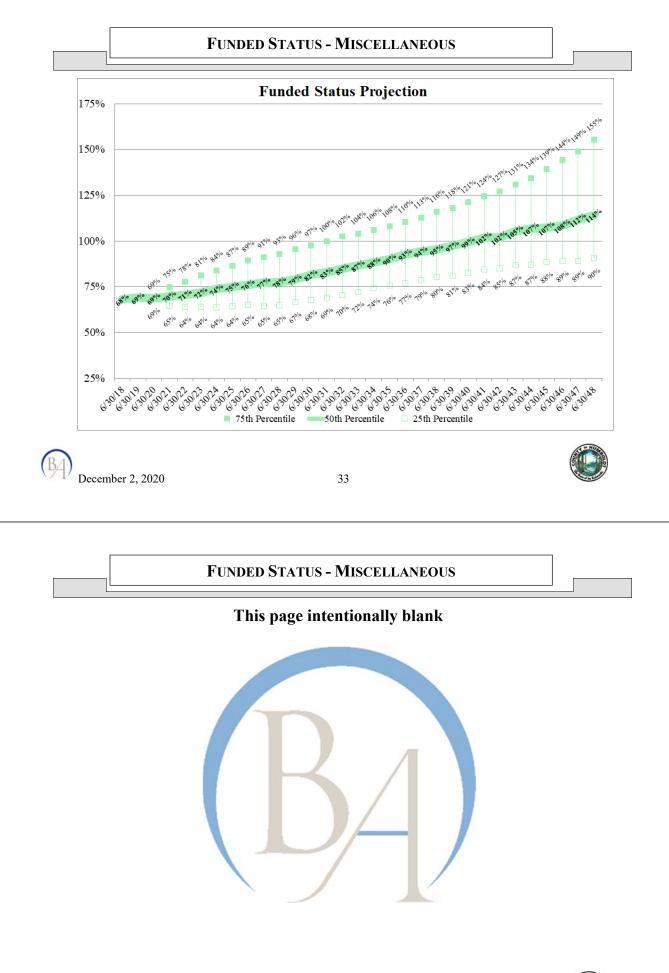














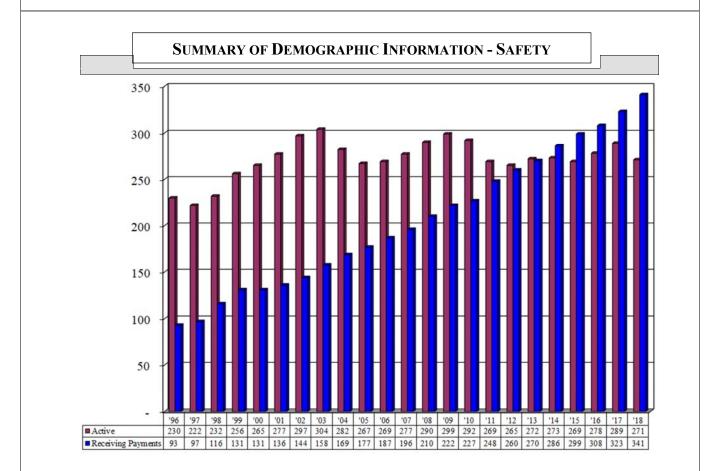
	1997	2007	2017	2018	
Actives					
Counts	222	277	289	271	
■ Average					
• Age	39	40	39	39	
County Service	9	9	10	10	
PERSable Wages	\$ 31,300	\$ 44,500	\$ 57,800	\$ 60,000	
Total PERSable Wages	6,900,000	12,300,000	16,700,000	16,300,000	
Inactive Members					
Counts					
Transferred	33	97	119	125	
Separated	42	83	139	159	
Retired					
□ Service		110	203	219	
Disability		67	92	90	
□ Beneficiaries		19	28	32	
□ Total	97	196	323	341	
Average Annual County Provided					
Benefit for Service Retirees <sup>7</sup>		27,700	33,500	34,600	

### SUMMARY OF DEMOGRAPHIC INFORMATION - SAFETY

<sup>7</sup> Average County-provided pensions are based on County service & County benefit formula, and are not representative of benefits for long-service employees.

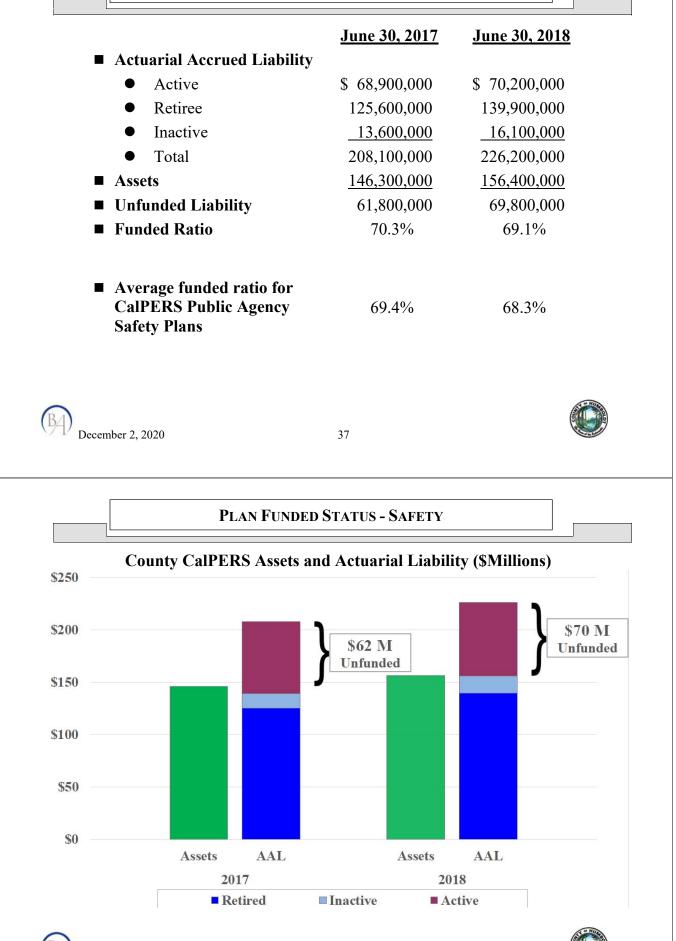
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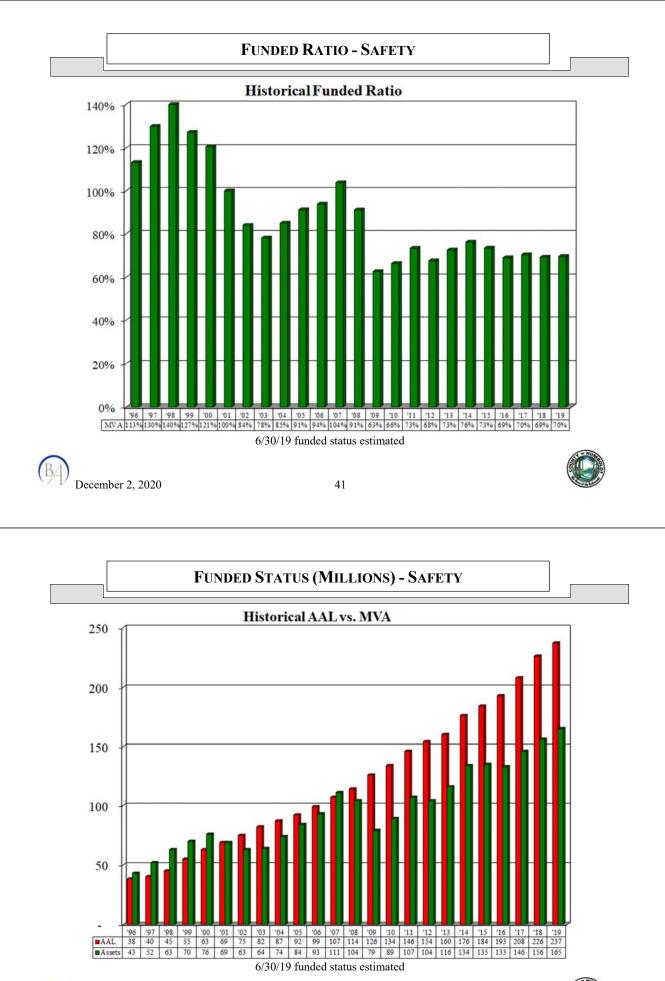




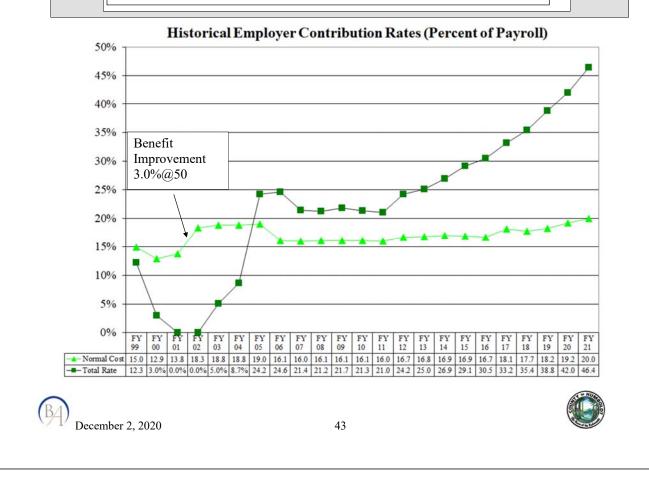
PLAN FUNDED STATUS - SAFETY				
	<u>Discount Rate S</u> June 30, 2	-		
		Discount Rate		
	<u>7.00%</u>	<u>6.50%</u> <sup>8</sup>	<u>6.00%</u>	
AAL	\$ 226,200,000	\$ 242,300,000	\$ 258,400,000	
Assets	156,400,000	<u>156,400,000</u>	156,400,000	
Unfunded Liability	69,800,000	85,900,000	102,000,000	
Funded Ratio	69.1%	64.5%	60.5%	
stimated by Bartel Associates. December 2, 2020	39			
December 2, 2020	39 AN FUNDED STAT	us - Safety		
December 2, 2020				
December 2, 2020 PL Unfu Unfunded Accrued Liab Expected 6/30/18 Unfu	AN FUNDED STAT Inded Accrued Li Dility on 6/30/17	ability Changes	\$61,800,000	
December 2, 2020 PL <u>Unfu</u> Unfunded Accrued Liab Expected 6/30/18 Unfun Other Changes	AN FUNDED STAT Inded Accrued Li vility on 6/30/17 ded Accrued Lia	<u>ability Changes</u> bility	63,600,000	
December 2, 2020 PL <u>Unfu</u> Unfunded Accrued Liab Expected 6/30/18 Unfun Other Changes • Asset Loss (Gain) (8.6	AN FUNDED STAT Inded Accrued Li Dility on 6/30/17 ded Accrued Lia % return for FY 2	<b>ability Changes</b> bility 018) (1,50	63,600,000	
December 2, 2020 PL <u>Unfu</u> Unfunded Accrued Liab Expected 6/30/18 Unfun Other Changes • Asset Loss (Gain) (8.6 • Assumption Change (I	AN FUNDED STAT Inded Accrued Li bility on 6/30/17 ded Accrued Lia % return for FY 2 DR 7.25% → 7%)	<b>ability Changes</b> bility 018) (1,50 6,50	63,600,000 0,000) 0,000	
PL Unfu Unfunded Accrued Liab Expected 6/30/18 Unfun Other Changes • Asset Loss (Gain) (8.6 • Assumption Change (I • Method Change (Softw	AN FUNDED STAT inded Accrued Li bility on $6/30/17$ ded Accrued Lia % return for FY 2 DR 7.25% $\rightarrow$ 7%) vare system)	<b>ability Changes</b> bility 018) (1,50 6,50 1,50	63,600,000 0,000) 0,000 0,000	
December 2, 2020 PL <u>Unfu</u> Unfunded Accrued Liab Expected 6/30/18 Unfun Other Changes • Asset Loss (Gain) (8.6 • Assumption Change (I	AN FUNDED STAT inded Accrued Li bility on $6/30/17$ ded Accrued Lia % return for FY 2 DR 7.25% $\rightarrow$ 7%) vare system)	<b>ability Changes</b> bility 018) (1,50 6,50 1,50	63,600,000 0,000 0,000 0,000 0,000)	
December 2, 2020 PL Unfunded Accrued Liab Expected 6/30/18 Unfun Other Changes Asset Loss (Gain) (8.6 Assumption Change (I Method Change (Softw Contribution & Experi	AN FUNDED STAT inded Accrued Lip bility on 6/30/17 ded Accrued Lip % return for FY 2 DR 7.25% $\rightarrow$ 7%) vare system) ence Loss (Gain)	<b>ability Changes</b> bility 018) (1,50 6,50 1,50	63,600,000 0,000) 0,000 0,000	

(BA) December 2, 2020





#### **CONTRIBUTION RATES - SAFETY**



# **CONTRIBUTION RATES - SAFETY**

	6/30/17 <u>2019/2020</u>	6/30/18 <u>2020/2021</u>
Total Normal Cost	28.8%	29.8%
Employee Normal Cost	9.6%	9.9%
<ul> <li>Employer Normal Cost</li> </ul>	19.2%	20.0%
<ul> <li>Amortization Payments</li> </ul>	<u>22.8%</u>	$26.5\%^9$
<ul> <li>Total Employer Contribution Rate</li> </ul>	42.0%	46.4%
■ 2019/20 Employer Contribution Rate		42.0%
• Payroll < Expected		1.3%
• 6/30/14 Assumption Change (5 <sup>th</sup> Y	ear)	1.2%
• 6/30/16 Discount Rate Change (3 <sup>rd</sup>	Year)	0.4%
• 6/30/17 Discount Rate & Inflation	(2 <sup>nd</sup> Year)	0.5%
• 6/30/18 Discount Rate change (1 <sup>st</sup> )	Year)	2.1%
• Other (Gains)/Losses		(1.1%)
■ 2020/21 Employer Contribution Rate		46.4%

Equivalent to 6.4% of UAL. One year, 7% interest on the UAL is 28.8% of payroll.



### **CONTRIBUTION PROJECTIONS - SAFETY**

- Market Value Investment Return:
  - June 30, 2019
    June 30, 2019
    - June 30, 2019
       Future returns based on stochastic analysis using 1,000 trials
       <u>Single Year Returns at<sup>12</sup></u> 25<sup>th</sup> Percentile 50<sup>th</sup> Percentile 75<sup>th</sup> Percentile
       Current Investment Mix 0.1% 7.0% 14.8%
       Ultimate Investment Mix 0.8% 6.0% 11.4%
    - Assumes investment returns will, generally be 6.5% (as compared to 7.0%) over the next 9 years and higher beyond that.
- Discount Rate decreases due to Risk Mitigation policy
- No Other: Gains/Losses, Method/Assumption Changes, Benefit Improvements
- Different from CalPERS projection

- <sup>11</sup> Gross return based on July 2020 CalPERS press release
- <sup>12</sup> N<sup>th</sup> percentile means N percentage of our trials result in returns lower than the indicated rates.

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- New hire assumptions:
  - 92.5% of 2019/20 new hires are PEPRA members and 7.5% are Classic members
  - Percentage of PEPRA member future hires to increase from 92.5% to 100% over 3 years
- 6/30/18 employee distribution:

Benefit Tier	Count	6/30/18 Payroll
3.0%@50 FAE3 (Peace)	174	\$12,024,500
3.0%@50 FAE1 (Fire)	6	301,500
2.7%@57 FAE3 (PEPRA Peace)	89	3,857,900
2.7%@57 FAE3 (PEPRA Fire)	2	71,700



 $6.7\%^{10}$ 

<sup>&</sup>lt;sup>10</sup> Gross return based on July 2019 CalPERS press release

### CONTRIBUTION PROJECTIONS - SAFETY

# Employee Cost-Sharing:

- All Safety groups except HDSO PEPRA employees pay 3% of payroll of County rates
- HDSO PEPRA employees pay 1.25% of County contribution rates
- HDSO PEPRA payroll is 8% of total PEPRA payroll







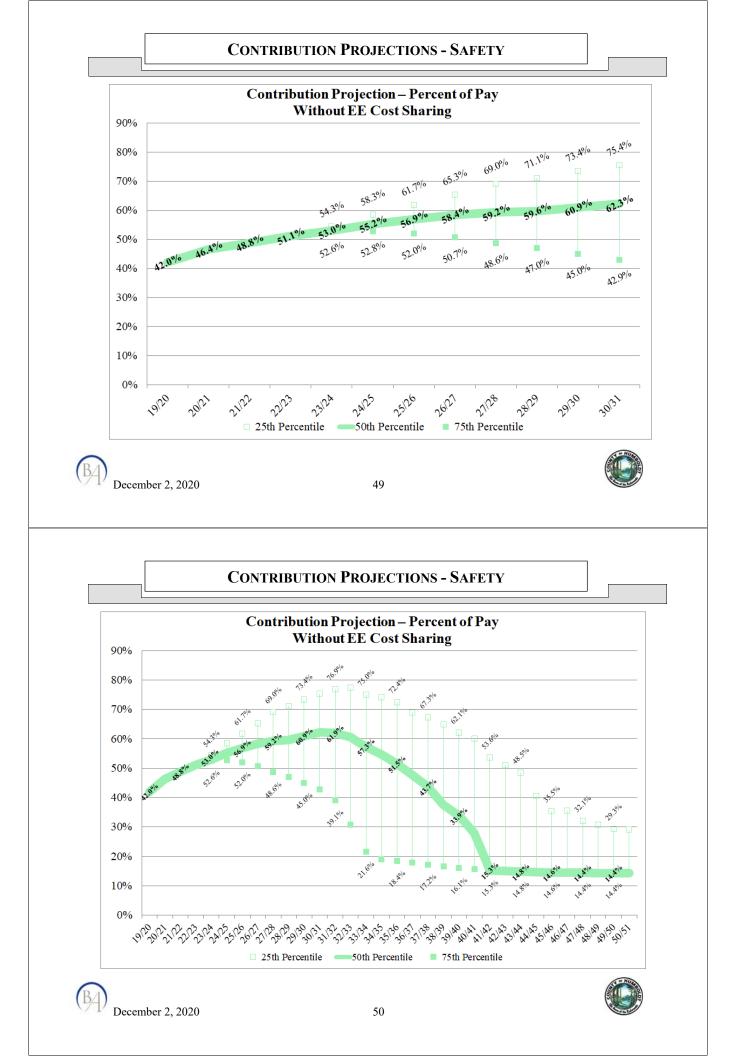
# **CONTRIBUTION PROJECTIONS - SAFETY**

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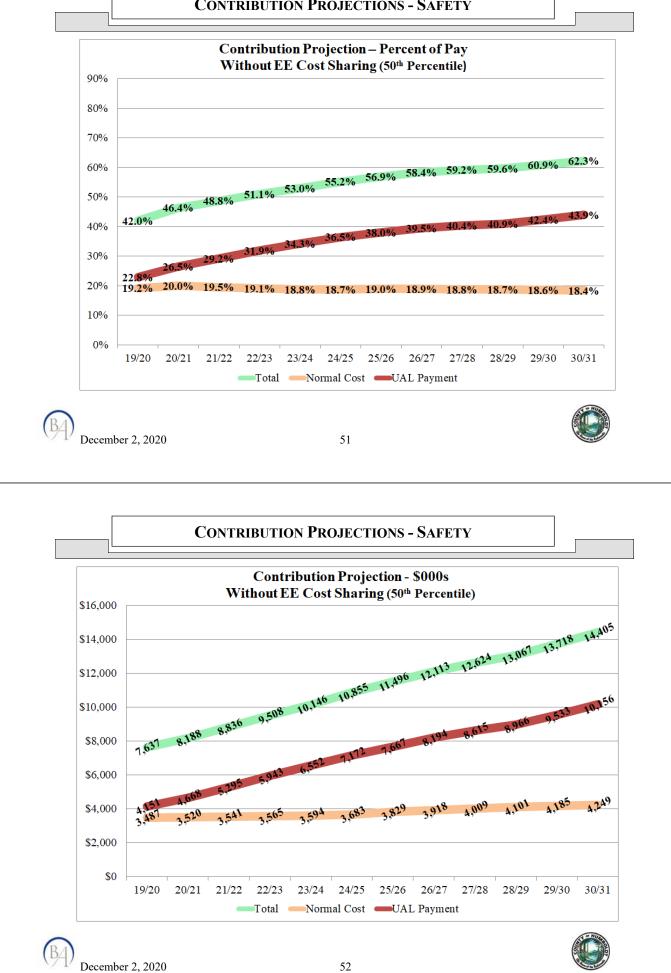








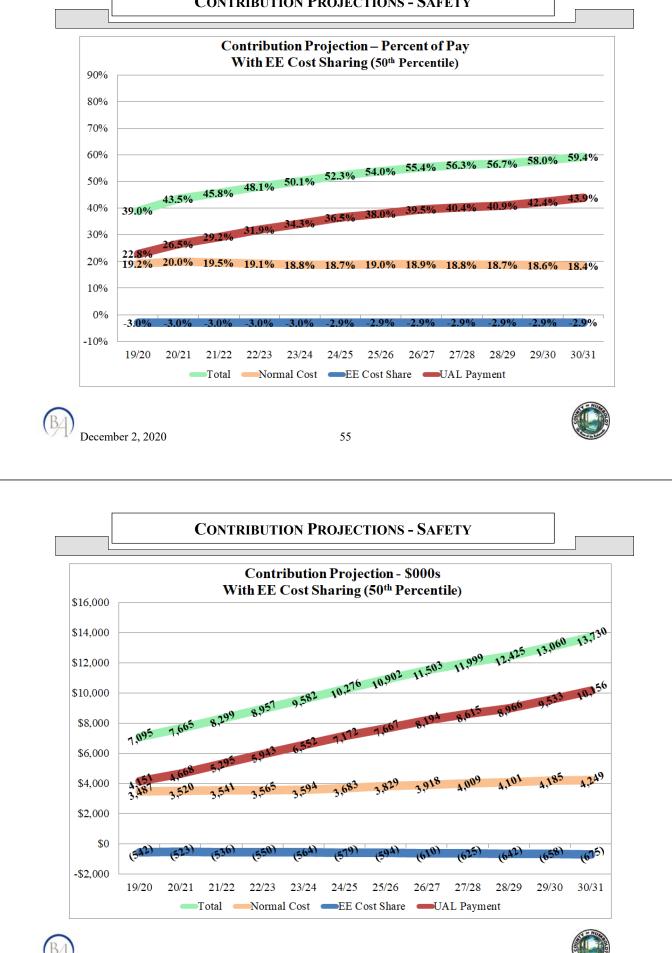
#### **CONTRIBUTION PROJECTIONS - SAFETY**











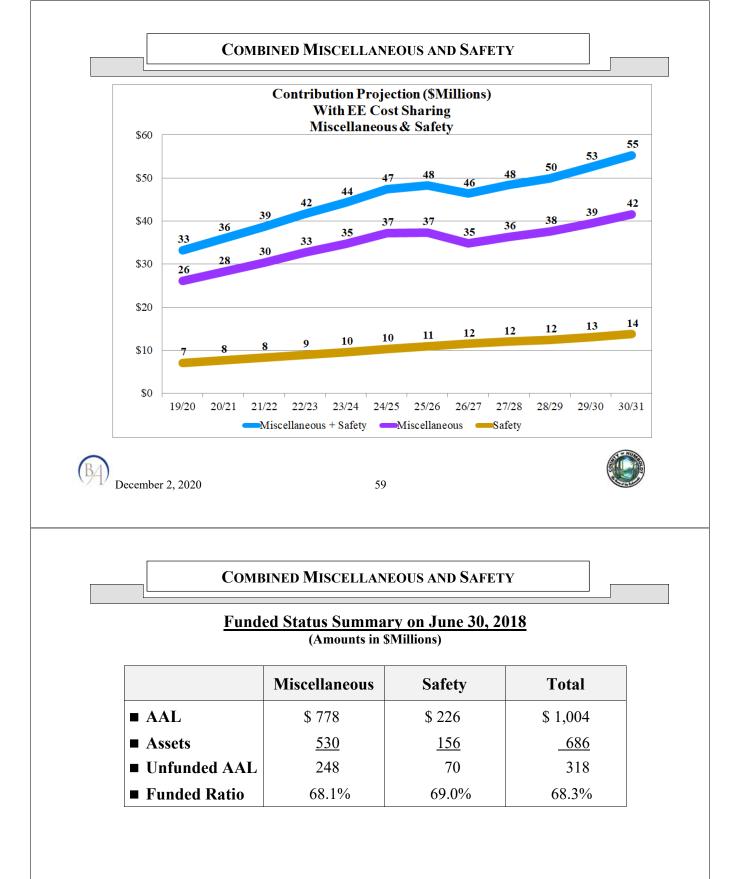
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# LEAVING CALPERS

- Participation in CalPERS is governed by State law and CalPERS rules
  - The following are considered "withdrawing" from CalPERS:
    - Exclude new hires from CalPERS & giving them a different pension
    - Stop accruing benefits for current employees
- "Withdrawal" from CalPERS:
  - Treated as plan termination
  - Liability increased for conservative investments
  - Liability increased for future demographic fluctuations
  - Liability must be funded immediately by withdrawing agency
  - Otherwise, retiree benefits are cut



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### **CalPERS Termination Estimates on June 30, 2018 (Amounts in Millions)**

	<b>Ongoing Plan</b>	Termination Bas			
Discount Rate	7.00%	2.5% 3.25%			
Miscellaneous					
Actuarial Accrued Liability	\$ 778	\$ 1,284	\$ 1,179		
Assets	<u>530</u>	<u>530</u>	<u>530</u>		
Unfunded AAL (UAAL)	248	248 754 649			
	Safety				
Actuarial Accrued Liability	\$ 226	\$ 391	\$ 355		
Assets	<u>156</u>	<u>156</u>	<u>156</u>		
Unfunded AAL (UAAL)	70	235 199			
Total					
Unfunded AAL (UAAL)	318	989	848		
Funded Ratio	68.3%	41.0%	44.7%		



### **PEPRA COST SHARING**

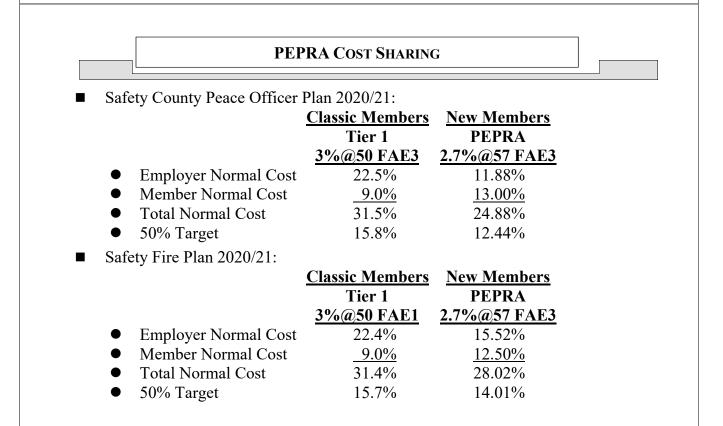
- Target of 50% of total normal cost paid by all employees
- PEPRA members must pay greater of 50% of total normal cost or bargained amount if higher
- Employer cannot pay any part of *PEPRA member* required employee contributions
- Employer may impose current employees pay 50% of total normal cost (limited to 8% of pay for Miscellaneous and 12% for Safety) if not agreed through collective bargaining by 1/1/18
- Miscellaneous Plan 2020/21:

	<u>Classic N</u>	<u>New Members</u>	
	Tier 1	Tier 2	PEPRA
	2.7%@55 FAE1	2%@55 FAE3	2%@62 FAE3
<ul> <li>Employer Normal Cost</li> <li>Member Normal Cost</li> <li>Total Normal Cost</li> <li>50% Target</li> </ul>	13.0%	11.4%	7.79%
	<u>8.0%</u>	<u>7.0%</u>	<u>7.00%</u>
	21.0%	18.4%	14.79%
	10.5%	9.2%	7.40%

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# **PEPRA COST SHARING**

# PEPRA Member Contributions:

	2019/20		2020/21			
Group	Total NC (Basis)	Member Rate	Total Normal Cost	Change	Member Rate	Method
Miscellaneous	14.13%	7.00%	14.79%	0.66%	7.00%	PEPRA Members
Safety Peace	25.16%	12.50%	26.22%	1.06%	13.00%	All Active Members
Safety Fire	23.35%	11.75%	24.96%	1.61%	12.50%	All Active Members



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# PAYING DOWN THE UNFUNDED LIABILITY & RATE STABILIZATION

- Where do you get the money from?
- How do you use the money?



#### WHERE DO YOU GET THE MONEY FROM?

- POB:
  - Usually thought of as interest arbitrage between expected earnings and rate paid on POB
  - No guaranteed savings
  - PEPRA prevents contributions from dropping below normal cost
     Savings offset when investment return is good
  - GFOA Advisory
- Borrow from General Fund similar to State
- One time payments
  - Governing body resolution to use a portion of one time money, e.g.
    - $\square$  1/3 to one time projects
    - $\Box$  1/3 to replenish reserves and
    - $\Box$  1/3 to pay down unfunded liability



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#### HOW DO YOU USE THE MONEY?

- Internal Service Fund
  - Typically used for rate stabilization
  - Restricted investments:
    - $\Box$  Likely low (0.5%-1.0%) investment returns
    - □ Short term/high quality, designed for preservation of principal
  - Assets can be used by governing body for other purposes
  - Does not reduce Unfunded Liability





#### How Do You Use the Money?

- Make payments directly to CalPERS:
  - Likely best long-term investment return
  - Must be considered an irrevocable decision
    - □ Extra payments cannot be used as future "credit"
    - D PEPRA prevents contributions from dropping below normal cost
  - Option #1: Request shorter amortization period (Fresh Start):
    - □ Higher short term payments
    - □ Less interest and lower long term payments
    - Likely cannot revert to old amortization schedule
      - O Savings offset when investment return is good (PEPRA)



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- Make payments directly to CalPERS (continued):
  - Option #2: Target specific amortization bases:
    - $\Box$  Extra contribution's impact muted by reduced future contributions
      - O CalPERS can't track the "would have been" contribution
    - $\Box$  No guaranteed savings
      - O Larger asset pool means larger loss (or gain) opportunity
    - Paying off shorter amortization bases: larger contribution savings over shorter period:
      - O e.g. 10 year base reduces contribution 11.9¢ for \$1
      - O Less interest savings vs paying off longer amortization bases
    - Paying off longer amortization bases: smaller contribution savings over longer period:
      - O e.g. 25 year base reduces contribution 6.2¢ for \$1
      - O More interest savings vs paying off shorter amortization bases



■ Can only be used to:

- Reimburse County for CalPERS contributions
- Make payments directly to CalPERS
- Investments significantly less restricted than County investment funds
  - Fiduciary rules govern Trust investments
  - Usually, designed for long term returns
- Assets don't count for GASB accounting
  - Are considered Employer assets
- Over 100 trusts established, mostly since 2015
  - Trust providers: PARS, PFM, Keenan
  - California Employers' Pension Prefunding Trust (CEPPT) effective July 2019
    - □ Strategy 1: Expected Return 5% (48 stocks / 52% bonds)
    - □ Strategy 2: Expected Return 4% (22% stocks / 78% bonds)

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- More flexibility than paying CalPERS directly
  - County decides if and when and how much money to put into Trust
  - County decides if and when and how much to withdraw to pay CalPERS or reimburse Agency
- Funding strategies typically focus on
  - Reducing the unfunded liability
    - $\Box$  Fund enough to make total CalPERS UAL = 0
    - □ Make PEPRA required payments from Trust when overfunded
  - Stabilizing contribution rates
    - □ Mitigate expected contribution rates to better manage budget
  - Combination
    - □ Use funds for rate stabilization/budget predictability
    - □ Target increasing fund balance to pay off UAL sooner



### Consider:

- How much can you put into Trust?
  - $\Box$  Initial seed money?
  - □ Additional amounts in future years?
- When do you take money out?
  - □ Target budget rate?
  - □ Year target budget rate kicks in?
    - O Before or after CalPERS rate exceeds budgeted rate?



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#### **COMPARISON OF OPTIONS**

Supplemental Trust

- Flexible
- Likely lower long-term return
- Investment strategy choice
- Does not reduce net pension liability for GASB reporting
- More visible

## CalPERS

- Locked In
- Likely higher long-term return
- No investment choice
- Reduces net pension liability for GASB reporting
- More restricted



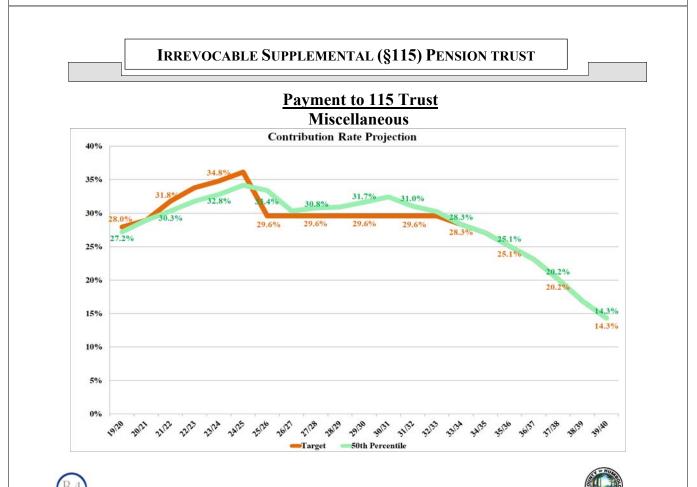
	Miscellaneous	Safety			
12/31/19 PARS Balance	\$6.1 million				
12/31/19 PARS Split (UAL)	\$4.7 million	\$1.4 million			
<b>Projected 6/30/20<sup>13</sup></b>	\$4.8 million	\$1.4 million			
	20/21: 0% of Pay;				
Trust Contributions	21/22: 1.5% of Pay;				
	22/23 through 24/25: 2% of Pay				
Trust Earnings	5%				
Trust Target					
- Target Rate	29.6%	54.7%			
- 1st Year	2025/26				
- Last Year	2032/33				
\$ Savings (000's)	\$5,036	\$1,595			
PV Savings @ 3% (000's)	1,910	568			

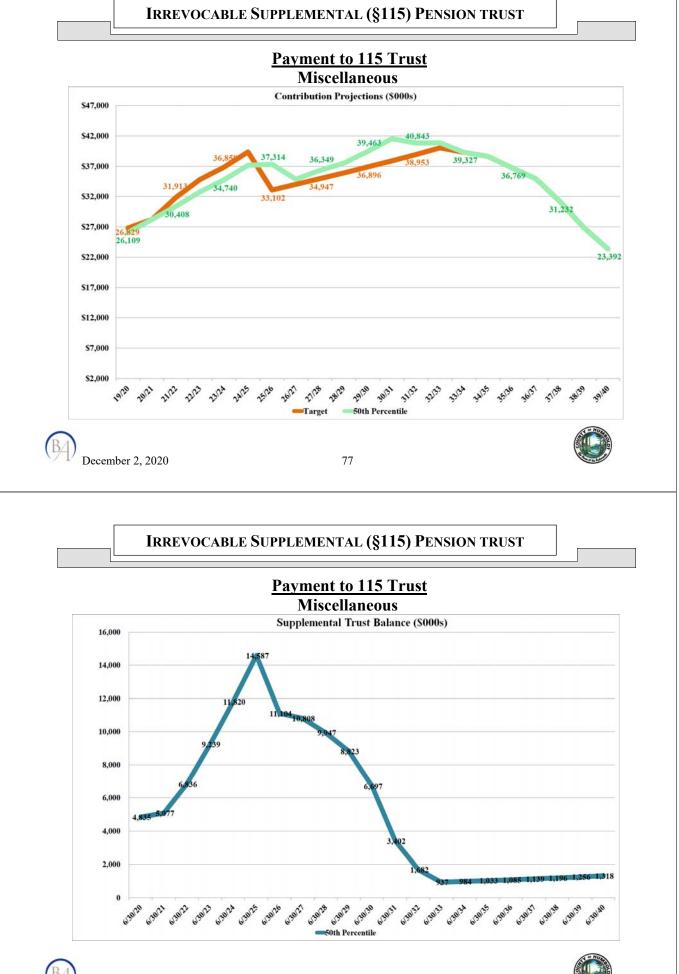
# Payment to 115 Trust – Scenario 1

<sup>13</sup> 1.5% of payroll contribution for 2019/20 but stopped when the PARS balance reached \$6 million.
 Projected 6/30/20 balance includes no contribution from 1/1/20 through 6/30/20

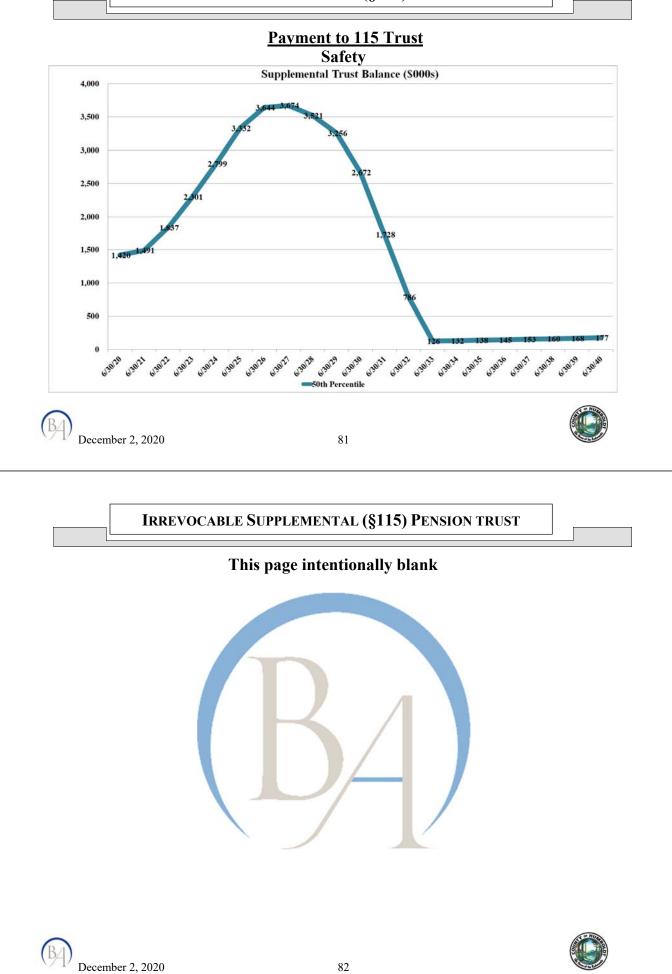
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	Miscellaneous	Safety		
12/31/19 PARS Balance	\$6.1 million			
12/31/19 PARS Split (UAL)	\$4.7 million	\$1.4 million		
<b>Projected 6/30/20<sup>14</sup></b>	\$4.8 million	\$1.4 million		
Trust Contributions	20/21: 0% of Pay;			
	21/22: 1.5%;			
	22/23 through 33/34: 2% of pay			
Trust Earnings	5%			
Trust Target				
- Target Rate	15.0%	37.0%		
- 1st Year	2034/35	2034/35		
- Last Year	2038/39	2037/38		
\$ Savings (000's)	\$20,534	\$3,893		
PV Savings @ 3% (000's)	6,105	1,313		

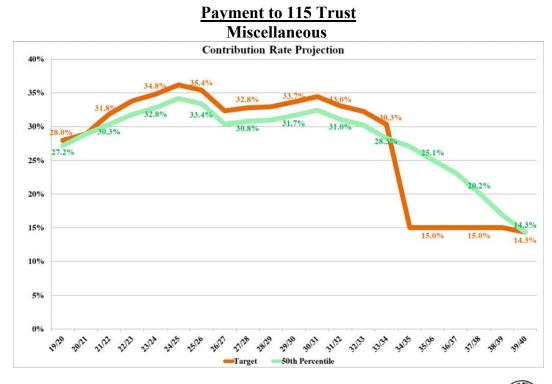
# <u>Payment to 115 Trust – Scenario 2</u>

<sup>14</sup> 1.5% of payroll contribution for 2019/20 but stopped when the PARS balance reached \$6 million.
 Projected 6/30/20 balance includes no contribution from 1/1/20 through 6/30/20

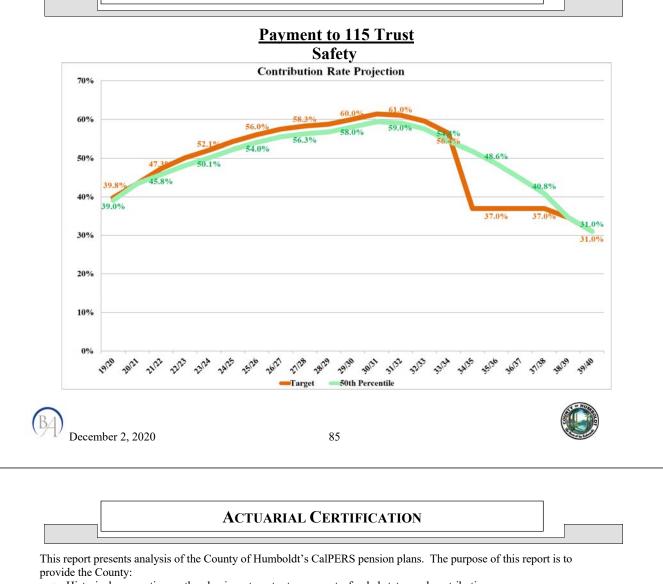
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- Historical perspective on the plan investment returns, assets, funded status and contributions.
- Projections of likely future contributions and the impact of investment volatility

The calculations and projections in this report are based on information contained in the County's June 30, 2018 and earlier CalPERS actuarial valuation reports. We reviewed this information for reasonableness, but do not make any representation on the accuracy of the CalPERS reports.

Future investment returns and volatility are based on Bartel Associates Capital Market model which results in long term returns summarized on pages 23 and 45.

Future results may differ from our projections due to differences in actual experience as well as changes in plan provisions, CalPERS actuarial assumptions or methodology. Other than variations in investment return, this study does not analyze these.

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. As members of the American Academy of Actuaries meeting the Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,



Doug Pryor, ASA, EA, MAAA Vice President Bartel Associates, LLC December 2, 2020

December 2, 2020



Bianca Lin, FSA, EA, FSA, MAAA Assistant Vice President Bartel Associates, LLC December 2, 2020

