Pennsylvania Public School Employees' Retirement System External Managers, Advisors, and Consultants As of December 31, 2024

	Eq	uity	Fixed I	Income	Real I	Estate	Infrasti	ructure	Otl	ner
Manager	Private	Public	Private	Public	Private	Public	Private	Public	Private	Public
Acadian Asset Management, LLC		•								
Acadian Asset Management, LLC		•								
ACORE Capital			•							
ACORE Opportunistic Credit II, L.P.			•							
AOC II Co-Invest, L.P.			•							
Actis LLP	•									
Actis Emerging Markets 3, L.P. Actis Global 4, L.P.										
Adams Capital Management, Inc.										
Adams Capital Management, L.P.	•									
Aeolus Capital Management, Ltd.									•	
Aeolus Property Catastrophe Keystone PF Fund, LP									•	
Aisling Capital LLC	•									
Aisling Capital II L.P.	•									
Aisling Capital III, L.P.	•									
Aisling Capital IV, L.P.	•									
Almanac Realty Investors LLC					•					
Almanac Realty Securities V, L.P.					•					
Almanac Realty Securities VI, L.P.					•					
Almanac Realty Securities VII, L.P.					•					
Almanac Realty Securities VIII, L.P.					•					
ARS VII (SIDECAR V), L.P.					•					
ARS VIII (SC V), L.P.					•					
Angelo, Gordon & Co., L.P.					•					
AG Core Plus Realty Fund III, L.P.					•					
AG Core Plus Realty Fund IV, L.P.					•					
AG Europe Realty Fund II, L.P.					•					
AG Europe Realty Fund III, L.P.					•					
AG Europe Realty Fund IV, L.P.					•					
AG Realty Value Fund X, L.P. APAX Partners LLP	_				•					
Apax Digital II, L.P.	•									
Apax Digital, L.P.	•									
Apax Europe VII, L.P.	•									
Apax X USD, L.P.										
Apogem Capital LLC	•									
GoldPoint Partners Co-Investment V, L.P.	•									
New York Life Capital Partners I, L.P.	•									
New York Life Capital Partners IV-A. L.P.	•									
Apollo Global Management, LLC	•		•							
Apollo European Principal Finance Fund II (Dollar A), L.P.			•							
Apollo European Principal Finance Fund III (Dollar A), LP			•							
Apollo Investment Fund IX, L.P.	•									
Ares Management Corporation	•		•		•					
Ares European Real Estate Fund IV, L.P.					•					
Ares U.S. Real Estate Fund IX, L.P.					•					
Ares U.S. Real Estate Fund VIII, L.P.					•					
Landmark Equity Partners XIV, L.P.	•									
SSG Capital Partners V Sidecar, L.P.			•							
SSG Capital Partners V, L.P.			•							
Avenue Capital Group	•		•		•					
Avenue Energy Opportunities Fund II, L.P.			•							
Avenue Energy Opportunities Fund, L.P.			•							
Avenue Europe Special Situations Fund III (U.S.), L.P.			•							
Avenue Real Estate Fund (Parallel) L.P.					•					
Avenue Special Situations Fund VI, L.P.	•									
Baillie Gifford Overseas, Ltd.		•								
Baillie Gifford Overseas LTD. Bain Capital Investors, LLC		•	•	•						
Bain Capital Asia Fund II, L.P.	•		•	•						
Bain Capital Asia Fund III-A, L.P.	•									
Bain Capital Asia Fund IV-B, L.P.	•									
Bain Capital Asia Fund IV-B, E.F. Bain Capital Credit Managed Account (PSERS), L.P.	•			•						
Bain Capital Distressed and Special Situations 2013 (A + AIV I), LP			•	-						
Bain Capital Distressed and Special Situations 2016 (A F ARV I), El			•							
Bain Capital Distressed and Special Situations 2010 (A), L.P. Bain Capital Distressed and Special Situations 2019 (A), L.P.										
Bain Capital Fund XI-A, L.P.	•		-							
Bain Capital Fund XII-A, L.P.	•									
Bain Capital Middle Market Credit 2010, L.P.	-		•							
Bain Capital Middle Market Credit 2014, LP			•							
			-							

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Manager	Eq≀ Private	uity Public	Private	Income	Real I Private			ructure Public	Private	
Bain Capital Special Situations Asia II, LP	Titalo	i abiio	•	i ubiio	11114410	i abiio	Tiraco	i abiio	· ········	
Sankaty Credit Opportunities IV, L.P.			•							
Baring Private Equity Asia Limited	•									
Baring Asia Private Equity Fund IV, L.P.	•									
Bell Partners Inc.					•					
Bell Fund VII Four Pack JV, LP					•					
Bell Institutional Fund VI, L.P.					•					
Bell Institutional Fund VII, L.P.					•					
Bell Uptown Charlotte JV, LLC					•					
Bell Value-Add Fund VIII, L.P.					•					
Black Diamond Capital Management, LLC	•									
GSC Recovery II, L.P.	•									
BlackRock		•		•	•					
BlackRock Europe Property Fund III, L.P.					•					
BlackRock (Emerging Mkts Alpha Adv Fund) Class P Shares		•								
BlackRock FIGA High Yield				•	_					
Blackstone Group	•				•		•			
Blackstone Infrastructure Partners (Supplemental Account II)							•			
Blackstone Infrastructure Partners Europe (CYM) L.P. Blackstone Infrastructure Partners L.P.							•			
Blackstone Real Estate Debt Strategies III, L.P.							•			
Blackstone Real Estate Partners Europe III, L.P.					-					
Blackstone Real Estate Partners Europe IV, L.P.					•					
Blackstone Real Estate Partners V, L.P.					•					
Blackstone Real Estate Partners VI, L.P.					•					
Blackstone Real Estate Partners VII, L.P.					•					
Blackstone Real Estate Partners VIII, L.P.					•					
BREP VI Secondary					•					
Phantom Co-Investors, L.P.							•			
Strategic Partners Fund III RE, L.P.					•					
Strategic Partners Fund IV RE, L.P.					•					
Strategic Partners Fund IV VC, L.P.	•									
Strategic Partners Fund V, L.P.	•									
Strategic Partners Fund VI, L.P.	•									
Strategic Partners Fund VII, L.P.	•									
Strategic Partners Real Assets II, L.P.							•			
Blue Point Capital Partners LLC	•									
Blue Point Capital Partners II (B), L.P.	•									
Blue Point Capital Partners III (B), L.P.	•									
Blue Point Capital Partners IV, L.P.	•									
Bridgepoint Capital Ltd	•									
Bridgepoint Development Capital III, L.P.	•									
Bridgepoint Development Capital IV, L.P.	•									
Bridgepoint Europe V, L.P.	•									
Bridgepoint Europe VI, L.P.	•									
Brookfield Asset Mgmt Inc.					•		•			
BGTF Watt Co-Invest LP							•			
Brookfield Global Transition Fund, L.P. Brookfield Infrastructure Structured Solutions-B, L.P.							•			
Brookfield Strategic Real Estate Partners II, L.P.					_		•			
Brookfield Strategic Real Estate Partners II, L.P. Brookfield Strategic Real Estate Partners III-B, L.P.					•					
Brookfield Strategic Real Estate Partners IV, L.P.					-					
Brookfield Strategic Real Estate Partners V, L.P.					•					
Brookfield Strategic Real Estate Partners, L.P.					•					
BSREP IV Obsidian Co-Invest B, L.P.					•					
Bryn Mawr Trust	•									
Interactions Corporation	•									
Cabot Properties, Inc.					•					
Cabot Industrial Core Fund II, L.P.					•					
Cabot Industrial Value Fund V, L.P.					•					
Cabot Industrial Value Fund VI, L.P.					•					
Cabot Industrial Value Fund VII, L.P.					•					
Cabot UK Core Plus Industrial Fund SCSp					•					
Capital Group	•									
Capital International Private Equity Fund VI, L.P.	•									
Capstone (Tail Risk Manager)										•
Capstone Commonwealth Fund, LP										•
Carlyle Aviation Partners			•							
SASOF III, LP			•							
SASOF IV, LP			•							
CACOEVID			•							
SASOF V, L.P.										
Carlyle Group, The Carlyle Energy Mezzanine Opportunities Fund II, L.P.			•		•					

Manager Carlyle Realty Partners IX, L.P. Carlyle Realty Partners VI, L.P. Carlyle Realty Partners VII, L.P. Carlyle Realty Partners VIII, L.P. Carlyle Realty Partners VIII, L.P. Carlyle Realty Partners X, L.P. Carlyle Realty Partners X, L.P. Caspian Capital, LP Caspian Select Credit International, Ltd. Cederberg Capital Cederberg Greater China Equity Fund Cerberus Business Finance, LLC Cerberus Levered Loan Opportunities Fund II, L.P. Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Capital Management, LLC Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice, LLC Clearlake Capital Partners IV, L.P. Clearlake Capital Partners VI, L.P.	-	Public • •		Public • •	Private	Estate Public	Infrasti Private	Ott	
Carlyle Realty Partners IX, L.P. Carlyle Realty Partners VII, L.P. Carlyle Realty Partners VIII, L.P. Carlyle Realty Partners VIII, L.P. Carlyle Realty Partners VIII, L.P. Carlyle Realty Partners X, L.P. Caspian Capital, LP Caspian Select Credit International, Ltd. Cederberg Capital Cederberg Greater China Equity Fund Cerberus Business Finance, LLC Cerberus Business Finance, LLC Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Capital Management, LLC Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners V, L.P.		•	:	•	•	Tublic	•	Tilvac	
Carlyle Realty Partners VI, L.P. Carlyle Realty Partners VII, L.P. Carlyle Realty Partners VIII, L.P. Carlyle Realty Partners X, L.P. Carlyle Realty Partners X, L.P. Caspian Capital, LP Caspian Select Credit International, Ltd. Cederberg Capital Cederberg Greater China Equity Fund Cerberus Business Finance, LLC Cerberus Levered Loan Opportunities Fund II, L.P. Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Capital Management, LLC Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Supplemental Coinvest I, L.P. Cimven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners V, L.P.	•	:	:				•		
Carlyle Realty Partners VII, L.P. Carlyle Realty Partners VIII, L.P. Carlyle Realty Partners X, L.P. Caspian Capital, LP Caspian Select Credit International, Ltd. Cederberg Capital Cederberg Greater China Equity Fund Cerberus Business Finance, LLC Cerberus Levered Loan Opportunities Fund II, L.P. Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Capital Management, LLC Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners L.P. (Series 4) CIII Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners V, L.P.	•	•	:				:		
Carlyle Realty Partners VIII, L.P. Carlyle Realty Partners X, L.P. Caspian Capital, LP Caspian Select Credit International, Ltd. Cederberg Capital Cederberg Greater China Equity Fund Cerberus Business Finance, LLC Cerberus Levered Loan Opportunities Fund II, L.P. Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Capital Management, LLC Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) CIII Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P.	•	•	:				:		
Carlyle Realty Partners X, L.P. Caspian Capital, LP Caspian Select Credit International, Ltd. Cederberg Capital Cederberg Greater China Equity Fund Cerberus Business Finance, LLC Cerberus Levered Loan Opportunities Fund II, L.P. Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•	:	:				:		
Caspian Capital, LP Caspian Select Credit International, Ltd. Cederberg Capital Cederberg Greater China Equity Fund Cerberus Business Finance, LLC Cerberus Levered Loan Opportunities Fund II, L.P. Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P.	•	•	:				:		
Caspian Select Credit International, Ltd. Cederberg Capital Cederberg Greater China Equity Fund Cerberus Business Finance, LLC Cerberus Levered Loan Opportunities Fund II, L.P. Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P.	•	:	:				:		
Cederberg Capital Cederberg Greater China Equity Fund Cerberus Business Finance, LLC Cerberus Levered Loan Opportunities Fund II, L.P. Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Capital Management, LLC Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners V, L.P.	•	•	:				:		
Cederberg Greater China Equity Fund Cerberus Business Finance, LLC Cerberus Levered Loan Opportunities Fund II, L.P. Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Capital Management, LLC Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners V, L.P.	•	•	:				:		
Cerberus Business Finance, LLC Cerberus Levered Loan Opportunities Fund II, L.P. Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Capital Management, LLC Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•	•	:				:		
Cerberus Business Finance, LLC Cerberus Levered Loan Opportunities Fund II, L.P. Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Capital Management, LLC Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•		:				÷		
Cerberus Levered Loan Opportunities Fund II, L.P. Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Capital Management, LLC Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P. Clearlake Capital Partners VI, L.P.	•		:				:		
Cerberus PSERS Levered Loan Opportunities Fund, L.P. Cerberus Capital Management, LLC Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•		•				:		
Cerberus Capital Management, LLC Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•						÷		
Cerberus Institutional Partners V, L.P. Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•						:		
Cerberus Institutional Partners VI, L.P. Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P. Clearlake Capital Partners VI, L.P.	•						:		
Cerberus Institutional Partners, L.P. (Series 4) C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P. Clearlake Capital Partners VI, L.P.	•		•				:		
C-III Capital Partners LLC Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•						•		
Centerline High Yield CMBS III - Loan/Stock CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•						•		
CIM Group, LLC CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•		•		•		:		
CIM Infrastructure Fund III, L.P. CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•						•		
CIM Supplemental Coinvest I, L.P. Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•		•				•		
Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•		•				•		
Cinven Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•		•						
Cinven Fund (Fourth), L.P. Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•		•						
Clayton, Dubilier & Rice, LLC Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P. Clearlake Capital Partners VI, L.P.	•		•						
Clayton, Dubilier & Rice Fund XII, L.P. Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•		•						
Clearlake Capital Group, L.P. Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•		•						
Clearlake Capital Partners IV, L.P. Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•		•						
Clearlake Capital Partners V, L.P. Clearlake Capital Partners VI, L.P.	•								
Clearlake Capital Partners VI, L.P.	•								
	•								
Clearlake Capital Partners VII, L.P.	•								
	-								
Clearlake Capital Partners VIII, L.P.	•								
Clearlake Flagship Plus Partners, L.P.	•								
Clearlake Opportunities Partners (P) II, L.P.									
Clearlake Opportunity Partners III, L.P.									
Coller Investment Management LTD	•								
Coller International Partners VI, L.P.	•								
Coller International Partners VII, L.P Series A	•								
Crestview Advisors LLC	•								
Crestview Partners III, L.P.	•								
Crestview Partners, L.P.	•								
Cross-Atlantic Capital Partners	•								
Co-Investment 2000 Fund, L.P.	•								
Co-Investment Fund II, L.P.	•								
Cross Atlantic Technology Fund II	_								
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Cross Atlantic Technology Fund, L.P.	•								
CVC Capital Partners Group	•								
CVC Capital Partners Asia Pacific III, L.P.	•								
CVC European Equity Partners V (A), L.P.	•								
Dawson Partners			•						
Dawson Liquidity Partners (Independence), L.P.			•						
Denham Capital	•								
Denham Commodity Partners Fund VI, L.P.	•								
Denham Michigan Potash Investment Holdings LLC								•	
Denham Mining Fund, L.P.								•	
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Serra Verde Rare Earths Ltd.								•	
DIF Capital Partners							•		
DIF Infrastructure Fund VII SCSp							•		
DRA Advisors, LLC					•				
DRA Fund IX Industrial Co-Investment LLC					•				
DRA Growth and Income Fund IX, LLC					•				
DRA Growth and Income Fund VII, L.P.					•				
DRA Growth and Income Fund VIII Co-Investment I, LLC					•				
DRA Growth and Income Fund VIII, LLC					•				
DRA Growth and Income Fund X, LLC					_				
DRA Growth and Income Master Fund XI, LLC					-				
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Effissimo Capital Management Pte. Ltd.		•							
ECM Feeder Fund 2 LP		•							
Energy & Minerals Group, The	•								
Energy & Minerals Group Fund III, L.P., The	•								
EQT					•				
EQT Exeter Industrial Core-Plus Fund IV, L.P.					•				
EQT Exeter Industrial Value Fund VI, LP					•				
Exeter Core Industrial Club Fund II, L.P.					•				
Exeter Core Industrial Club Fund II, LP (Secondary Mkt Acquisition)					•				

	Eq	uity	Fixed	Income	Real	Estate	Infrasti	ructure	Oth	ner
Manager		Public	Private	Public	Private	Public	Private	Public	Private	Public
Exeter Industrial Core Fund III, L.P.					•					
Exeter Industrial Value Fund IV, L.P.					•					
Exeter Industrial Value Fund V, L.P.					•					
Equistone Partners Europe Limited	•									
Equistone Partners Europe Fund V E, L.P.	•									
Equistone Partners Europe Fund VI E, SCSp	•									
Falko Regional Aircraft Limited			•							
Falko Regional Aircraft Opportunities Fund II L.P.	•		•							
First Reserve Corporation First Reserve Fund XII, L.P.	•									
Franklin Templeton Investments				•						
Franklin Templeton Institutional, LLC				•						
Fortress Investment Group				•						
Fortress Investment Fund IV LP										
Fortress Investment Fund V (Fund A) L.P.					•					
Galton Capital Group, LLC			•		-					
Galton Onshore Mortgage Recovery Fund IV, L.P.			•							
Garcia Hamilton & Associates, L.P.				•						
Garcia Hamilton & Associates, L.P.				•						
Garda Capital Partners, LP									•	
Garda Fixed Income Relative Value Opportunity Fund, Ltd.									•	
GCM Grosvenor							•			
GCM Grosvenor Customized Infrastructure Strategies II, LP							•			
GCM Diversified Infrastructure, L.P.							•			
GCM US Partnership Opportunities, L.P.							•			
GF Management, LLC					•					
Atlanta Marriott					•					
Atlanta Marriott Loan 2016					•					
Greenoaks Capital	•									
Greenoaks Capital Opportunities Fund III	•									
Greenoaks Capital Opportunities Fund V LP	•									
Gresham Investment Management, LLC										•
Gresham Investment Management LLC										•
Hahn & Co.	•									
Hahn & Company III L.P.	•									
Hahn & Company III-S L.P.	•									
Hayfin Capital Management LLP			•							
Hayfin SOF II USD Co-Invest, L.P.			•							
Hayfin SOF II USD, L.P.			•							
HayFin Special Opportunities Credit Fund (Parallel), L.P.			•							
HgCapital HgCapital	•									
Hg Genesis 9 L.P.	•									
Hg Saturn 2 A L.P.	•									
Hg Saturn 3 A L.P.	•									
HgCapital 8 D, L.P.	•									
HS Group (Hong Kong) Limited	•									
HS Group Sponsor Fund II	•									
Huntsman Gay Global Capital LLC	•									
HGGC Fund II, L.P.	•									
HGGC Fund III, L.P.	•									
I Squared Capital							•			
ISQ Apollo Co-invest Fund III, L.P.							•			
ISQ Eleanor Co-Invest Fund, L.P.							•			
ISQ Global Infrastructure Fund III, L.P.							•			
ISQ KIO Co-Invest Fund, L.P.							•			
Incline Management Corp	•									
Incline Elevate Fund I. P.	•									
Incline Elevate Fund, L.P. Incline Equity Partners III (PSERS), L.P.	•									
Incline Equity Partners III (PSERS), L.P. Incline Equity Partners IV, L.P.	•									
Incline Equity Partners IV, L.P. Incline Equity Partners V, L.P.	•									
Incline Equity Partners VI, L.P.	•									
Insight Investment International Limited (Currency Hedge Manager)	•		•							
Insight Investment International Limited (Currency neage Manager)	•		•			•				
Insight Investment International Limited - Everest Insight Investment International Limited - Nevada		•						•		
Insight Investment International Limited - Nevada Insight Investment International Limited - Sierra								•		
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Insight Investment International Limited - Yellow			_							
Insight Investment International Limited - Yellow Insight Investment International Limited - Oxygen	•		•							
Insight Investment International Limited - Yellow Insight Investment International Limited - Oxygen Insight Investment International Limited - Wilson	•		•							
Insight Investment International Limited - Yellow Insight Investment International Limited - Oxygen Insight Investment International Limited - Wilson Insight Venture Management, LLC	•		•							
Insight Investment International Limited - Yellow Insight Investment International Limited - Oxygen Insight Investment International Limited - Wilson Insight Venture Management, LLC Honeydew Co-Invest, L.P.	•		•							
Insight Investment International Limited - Yellow Insight Investment International Limited - Oxygen Insight Investment International Limited - Wilson Insight Venture Management, LLC	•		•							

Manager Insight Private Public Priva		Eq	uity	Fixed I	ncome	Real I	Estate	Infrast	ructure	Otl	ner
Insight Venture Partners XL P Insight Venture Capital IL P Intermediate Capital Group Intermediate Capital Group IC CE Europe Front VII. Per IC CEREBOR VIII. PE IC CEREBOR	Manager		-	Private	Public	Private	Public	Private	Public	Private	Public
Insight Woon Capital ILP. Intermediate Capital (I.P. Intermediate Capital (Insight Partners XII, L.P.	•									
Intermediate Capital Group IGG Europe Fand VI, LP, IPO Advisors Ivry Place Capital Parlmens III SPV, LP, IPO Morgan Asset Management JP Morgan Asset Management JP Morgan Asset Management JP Morgan Asset Management K Gapital Anthros K Gapital Anth	Insight Venture Partners X, L.P.	•									
IGC Europe Fand V. L.P. IGC Europe Fand VI Ford ROSP IGC Europe Fand VI Forder ROSP IGC Europe Fand VI ROSP IVER CONTROL ROSP IVER CAPITAL		•									
IGG Gurope Fund VI (Feder SCSp IGG Gurope Fund VII exclused SCSp IGG SCSp IP Moran Assed Management IGG STAND IN INTERPRETATION IN				•							
ICG Europe Fund VIII SCSSp				•							
ICCS Europe Fund VIII SCSQ Price Advisors Private Place Capital Partners III SPY, L.P.	, ,			•							
Advisors	· · · · · · · · · · · · · · · · · · ·			•							
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JP Morgan Asset Management KI Casilestrum Fund II, L.P. KS Capital Advisors KI Casilestrum Fund II, L.P. KS Capital Advisors KI Annual Management KI Casilestrum Fund II, L.P. Catleston Growth Pathers III, L.P. Catleston Fund Pathers III, L.P. L.B. Experiment Fund Pathers III, L.P. L.B. Experiment III, L.P. L.											
JP Mogan Asset Management K1 Gashetrum Fund II, LP. K4 Koppital Ariving III, LP. K5 Koppital Ariving III, LP. Cathetron Management Company LLC Cathetron Management Company LLC Cathetron Funders VIII, LP. Cathetron VIII, LP., L CP Primant Headings, LLC LSB Realty Advisors Fovorcenter Mail LSBalls Mortgage Real Estate Investors Listlands Management Real Estate Capital III, Inc. LISTLANDS Management Management Listlands Management Listlands Management Listlands Management Management Listlands Man	· · · · · · · · · · · · · · · · · · ·	•			_						
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Manager Peabody Global Real Estate Partners	Filvate	Public	riivale	Public	•	Fublic	riivale	Public	riivale	Public
O'Connor Real Estate Advisors, LLC					•					
Galleria at Ft Lauderdale, The					•					
Odyssey Investment Partners, LLC	•									
Odyssey Investment Partners Fund V, L.P.	•									
One William Street Capital Management, LP									•	
OWS Credit Opportunity Offshore Fund III, Ltd.									•	
Orchid Asia	•									
Orchid Asia V, L.P.	•									
Orchid Asia VI, L.P.	•									
Orchid Asia VII, L.P.										
Pacific Investment Management Company, LLC	•		•							
PIMCO BRAVO Fund III Onshore Feeder, LP			•							
PIMCO Commercial Real Estate Debt Fund II, L.P.										
PIMCO Commercial Real Estate Debt Fund, L.P.			•							
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PAI Europe	•									
PAI Europe VI, L.P.	•									
PAI Europe VII, L.P.	•									
Palladium Equity Partners	•									
Palladium Equity Partners IV, L.P.	•									
Paramount Group, Inc.					•					
Paramount Group Real Estate Fund VII, L.P.					•					
Park Square Capital, LLC			•							
Park Square - PSERS Credit Opportunities Fund, L.P.			•							
Partners Group Mgt VI LTD	•									
Partners Group Secondary 2008, L.P.	•									
Partners Group Secondary 2011 (USD), L.P. Inc.	•									
Partners Group Secondary 2015 (USD) A, L.P.	•									
PGIM Real Estate					•					
PGIM Agricultural Separate Account					•					
PGIM Real Estate Capital VII, SCSp					•					
Pramerica Real Estate Capital VI, L.P.					•					
Senior Housing Partnership Fund V, L.P.					•					
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Platinum Equity Advisors, LLC	•									
Platinum Equity Capital Partners IV, L.P.	•									
Platinum Equity Capital Partners V, L.P.	•									
Platinum Equity Capital Partners-A II, L.P.	•									
Platinum Equity Capital Partners-A, L.P.	•									
Platinum Equity Small Cap Fund, L.P.	•									
Polaris Capital Group, Ltd.	•									
Crown CG Private Equity Fund 2019, L.P.	•									
Crown CG Private Equity Fund 2019S, L.P.	•									
Portfolio Advisors, LLC	•									
Portfolio Advisors Secondary Fund III, L.P.	•									
Portfolio Advisors Secondary Fund IV, L.P.	•									
Portfolio Advisors Secondary Fund, L.P., PA	•									
Property Management, Inc.					•					
812 Market Street					•					
Camcorr, LLC					•					
Five North 5th Street					•					
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Radcliffe Capital Management										•
Radcliffe Capital Management										•
RCG Longview Management LLC					•					
RCG Longview 680 Co-Invest, L.P.					•					
RCG Longview Debt Fund VI, L.P.					•					
RenaissanceRe Fund Management, Ltd.									•	
RenaissanceRe Upsilon Diversified Fund									•	
Sante Ventures	•									
Sante Health Ventures III	•									
Sante Health Ventures IV	•									
SCP Private Equity Partners	•									
SCP Private Equity Partners II, L.P.	•									
Searchlight Capital Partners, L.P.	•									
Searchlight Capital II, L.P.										
Searchlight Capital III, L.P.	•									
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Security Capital						•				
Security Capital Preferred Growth (Public)						•				
Sixth Street Partners, LLC			•							
PSERS TAO Partners Parallel Fund, L.P (TAO 2.0)			•							
PSERS TAO Partners Parallel Fund, L.P (TAO 3.0)			•							
PSERS TAO Partners Parallel Fund, L.P (TAO Contingent)			•							
Sixth Street Fundamental Strategies Partners (A), L.P.			•							
Sixth Street Lending Partners			•							
Sixth Street Opportunities Partners II (A), L.P.			•							
Email Groot Opportunities I districts II (rs), E.I.			•							

	Equity	Fixed Income	Real Estate	Infrastructure	Other
Manager	Private Public				
Sixth Street Opportunities Partners III (A), L.P.		•			
Sixth Street Opportunities Partners IV (A), L.P.		•			
Sixth Street Opportunities Partners V (A), L.P.		•			
Sixth Street Specialty Lending Europe II, L.P.		•			
StarVest Associates	•				
StarVest Partners II (Parallel), L.P.	•				
Steadview Capital Partners, LP	•				
Steadview Capital Partners LP	•				
StepStone Group	•				
StepStone International Investors III L.P.	•				
Sterling Partners	•				
Sterling Capital Partners, L.P.	•				
Stockbridge Capital Partners			•		
PSERS YES Holdings, L.P.			•		
Stockbridge I Secondary			•		
Stockbridge Real Estate Fund II, LP			•		
Stockbridge Real Estate Fund III, LP			•		
Stockbridge Real Estate Fund, L.P.			•		
Summit Partners	•		•		
Summit Partners Credit Fund II, L.P.	•	•			
Summit Partners Growth Equity Fund IX-A, L.P.		•			
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Summit Partners Growth Equity Fund VIII-A, L.P.	•				
Summit Partners Growth Equity Fund X-A, L.P.	•				
Summit Partners Growth Equity Fund XI-A, L.P.	•				
Summit Partners Growth Equity Fund XII-A, L.P.	•				
Summit Partners Venture Capital Fund III-A, L.P.	•				
Summit Partners Venture Capital Fund IV-A, L.P.	•				
TCI Fund Management Limited		•			
TCI Real Estate Partners Fund III		•			
TCI Real Estate Partners Fund IV LP		•			
TDR Capital LLP	•				
TDR Capital V L.P.	•				
Tenaya Capital	•				
Tenaya Capital VI, L.P.	•				
Tenaya Capital VII, L.P.	•				
Tenaya Capital V-P, L.P.	•				
The Children's Investment Fund, LP	•				
The Children's Investment Fund LP	•				
Trilantic Capital Management LLC	•				
Trilantic Capital Partners IV L.P.	•				
Trilantic Capital Partners VI (North America), L.P.	•				
Tulco Management, LLC	•				
Tulco, LLC	•				
UBS Realty Investors, LLC			•		
UBS (US) Trumbull Property Fund, L.P.			•		
Valar Ventures LLC	•				
Valar Velocity Fund 2 LP	•				
Varde Partners, Inc.		•			
Varde Scratch and Dent Feeder I-A, L.P., The		•			
Varde Scratch and Dent Feeder, L.P., The		•			
Venor Capital Management LP	•	-			
Venor Capital Management EF Venor Capital Offshore Ltd.	•				•
Venor Special Situations Fund II, L.P.	•				-
Versa Capital Management, LLC	•				
	•				
Versa Capital Fund III, L.P.	•				
Versa Capital Fund III, L.P.	•				
Wasatch Advisors, Inc.	•				
Wasatch Advisors, Inc (Non-US Small Cap Equity Inv)	•				
Wasatch Advisors, Inc. (Emerging Markets Small Cap)	•				
Webster Capital Management, LLC					

Custodian Bank

The Bank of New York Mellon Corporation

Investment Accounting Application Service Provider

STP Investment Services, LLC

Proxy Voting Agent

Glass, Lewis & Co., LLC

Board and General Investment Consultant

Verus Advisory, Inc.

Private Markets / Alternatives Investment Consultant

Aksia, LLC

Risk Management System

BlackRock Solutions