

January 26, 2022

TO: Trustees – Board of Investments

FROM: Real Assets Committee

James Rice, CFA

Principal Investment Officer

FOR: February 9, 2022 Board of Investments Meeting

SUBJECT: REAL ASSETS STRUCTURE REVIEW

### RECOMMENDATION

Approve the Real Assets Structure Review (**Attachment A**) including initiatives, guidelines, and recommendations throughout the document as well as those summarized on slides 32, 33,34 and 35.

### **BACKGROUND**

On January 12, 2021, the Real Assets Committee ("Committee") unanimously approved a recommendation (**Attachment**) that the Board of Investments approve the Real Assets Structure Review. This structure review (**Attachment A**) indicates that LACERA would continue to invest in private infrastructure and natural resources assets which will eventually largely replace public market equities in these categories as well as commodities futures. The structure review also discusses the expected capital deployment path to implement the new strategic asset allocation targets approved by the Board of Investments in 2021. At the Committee Meeting, Staff mentioned that the proposed structure review neglected to include the guidelines approved by the Board of Investments regarding delegated authority for co-investments and secondaries purchases and that they would be included in the item to the Board if advanced by the Committee. The Attachment includes the addition of slide 34 which summarizes these co-investment and secondaries program guidelines previously approved by the Board of Investments.

### OPTIONS AVAILABLE TO THE BOARD

The Board may wish to approve, modify, or reject the recommendation.

### DELIBERATIONS AND OPINIONS EXPRESSED BY THE COMMITTEE

The Committee raised questions about the following topics that were addressed by staff and the Consultant: the geographic allocation to investments in developed and emerging markets in infrastructure, access the transportation sector investments which have traditionally been publicly-owned, and board notification required under delegated authority for re-ups which includes the

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consultant's report. A question was asked about the allocations on slide 9 and the column titled Difference vs Interim contained an error since the column was mistitled and showed the calculation for the Difference vs. Former Target. A corrected Difference vs. Interim calculation is included in the column on slide 9 of **Attachment A**.

### RISKS OF ACTION AND INACTION

LACERA's real assets program has existed in its current structure since its 2018 inception, with the plan to replace the public market equity completion and commodities futures portfolios with private assets over time. It is believed that this structure will better meet LACERA's risk/return and diversification objectives. If the move to the desired privately-oriented structure is not continued, LACERA's real assets portfolio will likely experience higher volatility and more correlation to global equities, though it will remain more liquid. It is also believed that LACERA may better be able to manage its intentions in the energy transition category through private markets if these investment strategies are successful and would allow LACERA to better position itself as the energy markets move through decarbonatization.

The risk of inaction is that the real assets portfolio may continue to have uncompensated risks and may not achieve its objectives.

### **CONCLUSION**

The Committee unanimously approved this recommendation that LACERA adopt the proposed Structure Review.

LACERA's specialty Real Assets consultant, Albourne, reviewed the Structure Review and concurs with its recommendations (**Attachment B**).

Attachments

Noted and Reviewed:

Yonathan Grabel

Chief Investment Officer

JR:mm

December 23, 2021

TO: Trustees – Real Assets Committee

FROM: James Rice

Principal Investment Officer

FOR: January 12, 2021 Real Assets Committee Meeting

SUBJECT: REAL ASSETS STRUCTURE REVIEW

### RECOMMENDATION

Advance the Real Assets Structure Review (Attachment A) including initiatives, guidelines, and recommendations throughout the document as well as those summarized on slides 32, 33, and 34 to the Board of Investments for approval.

### **BACKGROUND**

The first structure review of the then recently formed Real Assets Category (excluding Real Estate) was approved in November 2019. A mid-cycle update was presented to the Board in October 2020. The strategic asset allocation analysis completed in May 2021 raised the Infrastructure allocation target weight from 3 to 5%, and reduced Natural Resources from 4% to 3%.

### **SUMMARY**

This structure review recommends the continuation of the program to invest in private Infrastructure and Natural Resources assets through Fund and other structures such as co-investment vehicles. Over the next four to five years these private assets are expected to largely replace the existing public market equities and commodities portfolios in the Infrastructure and Natural Resources categories.

The presentation consists of an overview followed by sections on the strategies and guidelines to be employed in implementing the recommendation.

LACERA's consultant, Albourne, reviewed the structure review and is in support of the recommendation. The consultant's concurrence memo is included as **Attachment B**.

Attachments

Noted and Reviewed:

Yonathan Grabel

Chief Investment Officer

# Real Assets and Inflation Hedges 2021 Structure Review Part 2: Real Assets

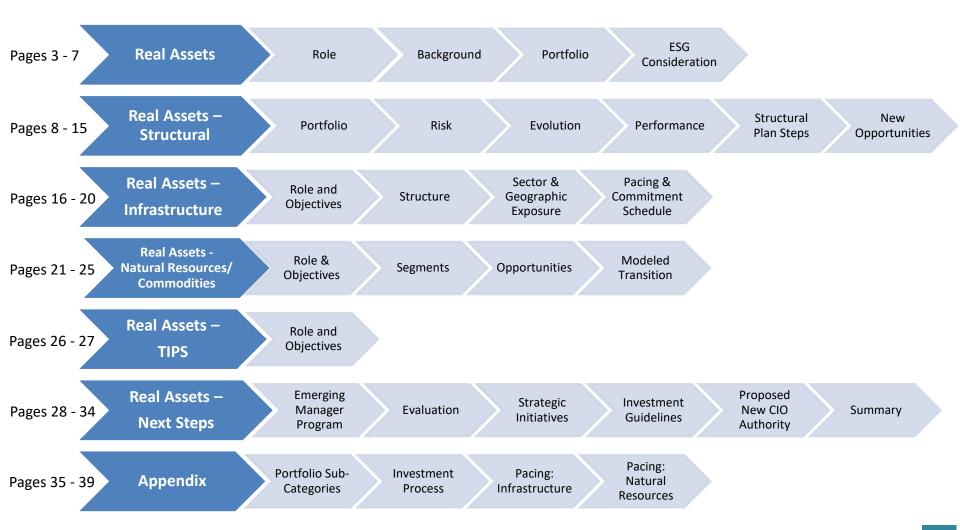


**Board of Investments** 

**February 9, 2022** 

LOS ANGELES COUNTY EMPLOYEES RETIREMENT ASSOCIATION

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# Portfolio Role



- Diversify exposure to growth assets to mitigate portfolio downside risk
- Provide consistent yield for the broader portfolio
- Hedge the risk of inflation with investments in hard or inflation-linked assets

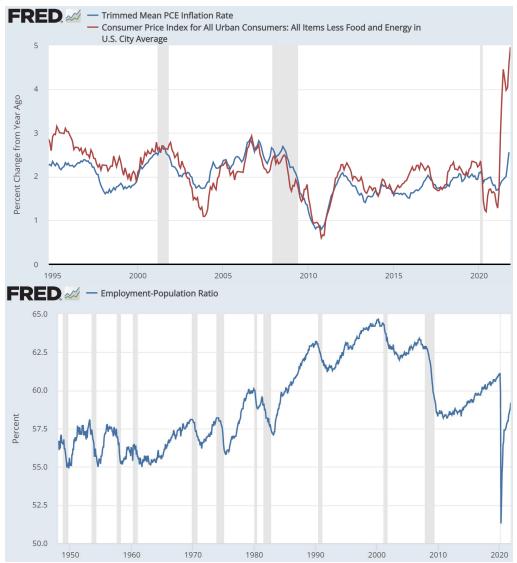


# Structure Review - Background

### 4.0 Real Assets: Next **Phase** 1. Reduce Real Estate portfolio operational and concentration 3.0 risk **Real Assets: Future** 2. Real Estate focus on openended and closed-ended funds **Existing initiatives** rather than separate accounts 1. Consideration of 3. Real Assets (excl Real Estate): 2.0 changes to Real Estate continued implementation of **Real Assets: Asset** structure public to private transition. **Category Created** 2. Private program for Infrastructure and Includes Natural Resources 1.0 1. Historical Real Estate Real Estate: Historical and Commodities We programs are Structure 2. New assets for Natural here 1. Fully owned assets Resources, 2. Improve sector and Infrastructure and TIPS 2020 Mid-Cycle regional diversification & 2021 **Structure** 2019 Structure Reviews Review and 2018 Strategic Asset *Initiatives* **Allocation Study**

and Implementation

# **Inflationary Pressures Rising**



- Increase in wages
- High federal debt to GDP ~125%
- Fed stated target of higher employment participation
- Equal emphasis on employment and inflation
- Inflationary pressures high

# Portfolio Components

### Real Estate

- Capital preservation and stable yield from rents
- Hard assets provide inflation protection
- Diversified sources of returns less correlated with growth assets
- Non-core also provides Growth returns

### Infrastructure

- Core: generate yield with highly contracted revenues to limit downside across market environments
- Non-core: growth opportunities across energy/utilities, transportation, communications and social infrastructure

### **Natural Resources & Commodities**

- Mix of diversification, income generation, and inflation hedging
- Farmland and agriculture less correlated to broader markets, and income generators
- Commodities in energy, mining, and agriculture can serve as inflation hedge

### **TIPS**

- Inflation hedge through public markets
- Diversification benefits with inflation-linked and interest rate exposure
- Generates modest income



# **ESG** Considerations

### **ESG** in Real Assets

ESG evaluation to ensure a sustainable rate of return over the long-term life of private investments

## **Manager Assessment**

Evaluated at entry and monitored on:

- Manager's investment process incorporate material ESG factors
- Manager resources for ESG monitoring
- Operating assets to high ESG standards
- Transparency of ESG related reporting

# Monitoring & Future

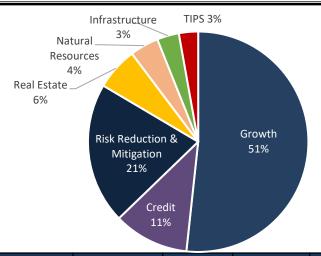
- Evaluation tools include LACERA specific DDQ questionnaires, and ESG evaluation
- ESG results incorporated into manager scorecard
- ESG risk measures in new LACERA risk system
- Side letters related to ESG issues
- LPAC role to monitor ESG
- Consideration of revisions to Responsible Contractor Policy



# Real Assets (Excluding Real Estate) Structure



# Portfolio Composition



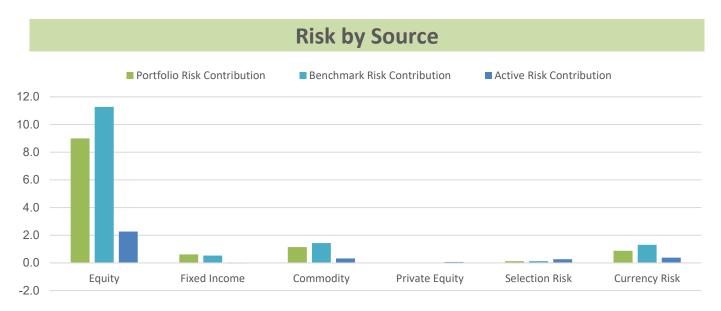


| Asset Class                          | Allocation | Former<br>Target | Interim<br>Oct '21<br>Target | Final<br>Jul '22<br>Target | Difference<br>(v Former) | Difference<br>(v Interim) | Target<br>Range | Benchmark  |
|--------------------------------------|------------|------------------|------------------------------|----------------------------|--------------------------|---------------------------|-----------------|--|
| Real Assets & Inflation Hedges       | 16.3%      | 17%              | 17%                          | 17%                        | (0.7)%                   | (0.7)%                    | +/- 3%          | Custom Blend   |
| Core Real Estate                     | 6.2%       | 7%               | 6%                           | 6%                         | (0.8)%                   | 0.2%                      | +/- 3%          | NFI ODCE + 50 bps (3-month lag)                              |
| Infrastructure                       | 3.2%       | 3%               | 4%                           | 5%                         | 0.2%                     | (0.8)%                    | +1/-3%          | Dow Jones Brookfield Global<br>Infrastructure Composite      |
| Natural<br>Resources/<br>Commodities | 4.2%       | 4%               | 4%                           | 3%                         | 0.2%                     | 0.2%                      | +/- 2%          | 50% Bloomberg Commodity/<br>50% S&P Global Natural Resources |
| TIPS                                 | 2.8%       | 3%               | 3%                           | 3%                         | (0.2)%                   | (0.2)%                    | +/- 3%          | Bloomberg Barclays U.S. TIPS                                 |



# MSCI Forecast Active Risk - Real Assets

|                                    | Weight% | Benchmark<br>Weight% | Active<br>Weight% | Active Risk<br>Contribution | Allocation<br>Risk Cont. | Selection<br>Risk Cont. | Standalone<br>Active Risk |
|------------------------------------|---------|----------------------|-------------------|-----------------------------|--------------------------|-------------------------|---------------------------|
| Total Real Assets (Ex Real Estate) |         |                      |                   | 3.3%                        | -0.1%                    | 3.3%                    | 3.3%                      |
| Natural Resources and Commodities  | 41.1%   | 36.4%                | 4.7%              | 2.8%                        | -0.3                     | 3.1%                    | 8.0%                      |
| Infrastructure                     | 31.2%   | 36.4%                | -5.2%             | 0.4%                        | 0.2%                     | 0.3%                    | 3.1%                      |
| TIPS                               | 27.8%   | 27.3%                | 0.5%              | 0.1%                        | 0.1%                     | 0.0%                    | 0.0%                      |

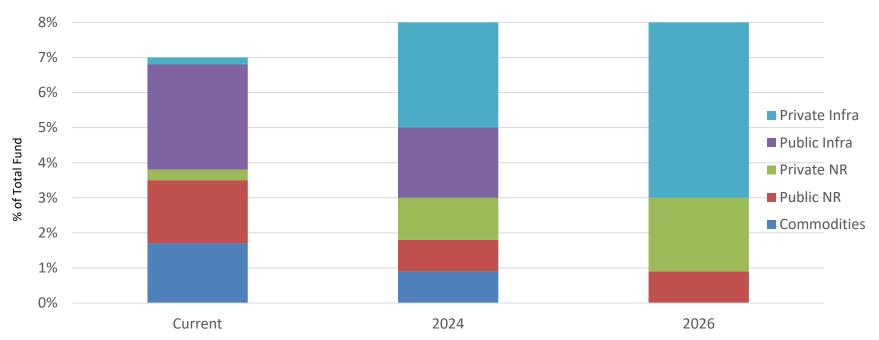




Implementation of the MSCI Risk Platform is ongoing; reconciliation and refinement of the data is progressing and subject to change. As of November 30, 2021.

Source: MSCI Barra One.

# Structural Evolution from Public to Private

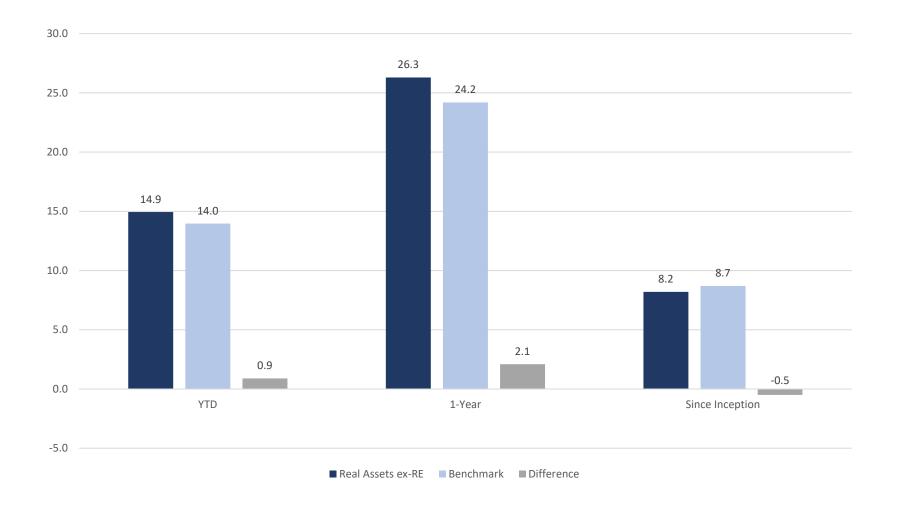


- Completion portfolio provides key role in maintaining exposures in transition towards private assets
- Commodities (public) exposure will be eliminated as private assets increase
- Staff will manage the mix of public real asset sector exposures to maintain balance to key real asset sectors as private assets increase across sectors
- Private Energy investments are targeted to newer energy transition strategies rather than traditional energy which faces stranded asset risk

| Infrastructure  | Natural Resources  |
|-----------------|--------------------|
| Power/Utilities | Energy             |
| Transportation  | Metals/Mining      |
| Telecom         | Agriculture/Timber |
| Social          |                    |



# Real Assets Performance





# Real Assets Performance (Cont'd)

| Performance vs. Benchmark (net-of-fees)            |                    |         |                  |              |                 |
|--|--------------------|---------|------------------|--------------|-----------------|
|  | % of Total<br>Fund | 3Q 2021 | YTD<br>(3Q 2021) | Trailing 1-Y | Since Inception |
| Real Assets ex-RE                                  | 10.2%              | 1.5     | 14.9             | 26.3         | 8.2             |
| Benchmark  |                    | 1.5     | 14.0             | 24.2         | 8.7             |
| Excess Return                                      |                    | 0.0     | 0.9              | 2.1          | (0.5)           |
| Public Market                                      | 2.00/              | (0.4)   | 12.5             | 21.2         | 10.1            |
| Infrastructure                                     | 3.0%               | (0.4)   | 12.5             | 21.3         | 10.1            |
| Benchmark  |                    | (0.7)   | 12.2             | 20.6         | 7.0             |
| Excess Return                                      |                    | 0.3     | 0.3              | 0.7          | 3.1             |
| Private Infrastructure                             | 0.2%               | 5.0     | (0.3)            | N/A          | 14.0            |
| Benchmark  |                    | 7.9     | 22.3             | N/A          | 18.2            |
| Excess Return                                      |                    | (2.9)   | (22.6)           | N/A          | (4.2)           |
| Public Natural Resources/<br>Commodities Composite | 3.9%               | 2.9     | 23.3             | 42.1         | (2.0)           |
| Benchmark  |                    | 2.8     | 23.2             | 42.6         | (2.9)           |
| Excess Return                                      |                    | 0.1     | 0.1              | (0.5)        | 0.9             |
| Private Natural Resources                          | 0.3%               | 3.2     | 0.8              | 0.0          | (16.8)          |
| Benchmark  |                    | 5.4     | 43.2             | 47.0         | 16.8            |
| Excess Return                                      |                    | (2.2)   | (44.0)           | (47.0)       | (33.6)          |
| TIPS   | 2.8%               | 1.6     | 3.3              | 4.9          | 7.8             |
| Benchmark  |                    | 1.8     | 3.5              | 5.2          | 7.9             |
| Excess Return                                      |                    | (0.2)   | (0.2)            | (0.3)        | (0.1)           |

# Performance Commentary, as of 3Q 2021

- All categories excluding TIPS have outperformed through 3Q 2021
- All public market managers have outperformed their benchmarks since inception
- Private assets in early stages of fund cycle detract from overall performance

# LACERA Real Assets Structural Plan Steps



- Real Assets program is evolving with increased structural complexity and risk-adjusted return expectations
  - 11 commingled funds with \$1.8B in committed capital
  - Co-investments being evaluated and secondary natural resources purchase negotiated
  - One club deal structure negotiated and approved by Board
- Selectively evaluate managed accounts
  - Challenging as large ticket sizes in Real Assets reduces diversification

Increased complexity and risk-adjusted return expectations over time



# **Energy Transition Creating New Opportunities**

| Segment                  | Energy Transition  |
|--------------------------|--|
| Metals & Mining          | Low carbon transition into renewables and electric vehicles is metal intensive, greater unit of metal input per unit of output Increased demand for metals such as lithium, copper, graphite, other base and precious metals |
| Agriculture / Timberland | Agriculture strategies focusing on conservation, carbon reduction, and carbon capture  |
| Energy                   | Renewable fuels, carbon reduction and sequestration in industrial operations, and hydrogen fuel  |
| Infrastructure           | Renewable power, battery storage, and electric vehicle charging and related grid infrastructure improvements   |

- Transition to a low carbon economy presents investment opportunities across Real Assets
  - <u>Infrastructure</u>: renewable power, select battery storage, and related grid infrastructure improvements
  - <u>Natural Resources</u>: most appealing opportunities in Metals & Mining and Energy



# Real Assets: Infrastructure



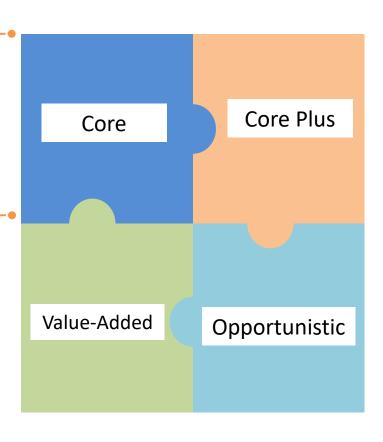
# Infrastructure Role and Objectives

### Role

- Diversification: more defensive than public equities
- Provide consistent income

# **Objectives**

- Contracted and regulated assets to provide consistent returns less correlated to GDP growth
- Some potential allocation for higher-returning core plus, value added, opportunistic spectrum
- Explore co-investments and other structures for lower fees and more intentional allocation





# Infrastructure Private Equity Structure

| Sub-Category | Proposed<br>Allocation<br>Range | Target<br>Deal<br>Returns <sup>1</sup> | Net Fund<br>Returns <sup>2</sup> |   |  |
|--------------|---------------------------------|--|----------------------------------|---|--|
| Core/Core+   | 50 - 75%                        | 7 - 12%                                | 6 - 10%                          | Defensive, contracted assets, asset value based current yield |  |
| Non-Core     | 25 - 50%                        | 11 - 20%                               | 10 - 17%                         | Balanced income/capital appreciation, regulatory protection   |  |

| Industrial Sector | Examples   |
|-------------------|--|
| Energy/Utilities  | Power generation (renewables and conventional), transmission/distribution systems, storage facilities, midstream, water treatment, water distribution, water transportation, and waste treatment |
| Communications    | Fiber networks, communication towers, satellite systems, and data centers  |
| Transportation    | Toll roads, bridges, tunnels, airports, seaports, rail/transit, and parking facilities   |
| Social            | Availability based payment structures for hospitals, universities, and government buildings  |

- Infrastructure sub-categories differ based on risk premium and income generation
- Infrastructure investments will generally focus on equity within capital structure
- Current geographic focus: developed markets and global funds

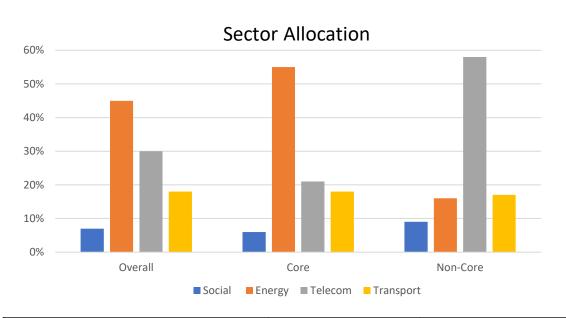


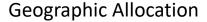
<sup>&</sup>lt;sup>1</sup> Source Albourne. Target Deal Returns are based on manager underwriting of deals in each respective strategy.

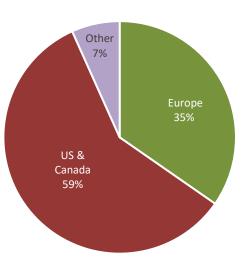
<sup>&</sup>lt;sup>2</sup> Source Albourne. Expected Net Fund Returns are Albourne's estimated loss-adjusted IRRs, net of fees, for funds in each respective strategy.

# Infrastructure Sector & Geographic Exposure

# Estimated Infrastructure Portfolio at committed capital amounts







| <b>Sector Proposed Allocation Range</b> | Energy   | Telecom  | Transport | Social  |
|---|----------|----------|-----------|---------|
| Core/Core+                              | 35 - 65% | 10 - 40% | 5 - 25%   | 0 - 20% |
| Non-core                                | 35 - 65% | 10 - 40% | 5 - 25%   | 0 - 20% |

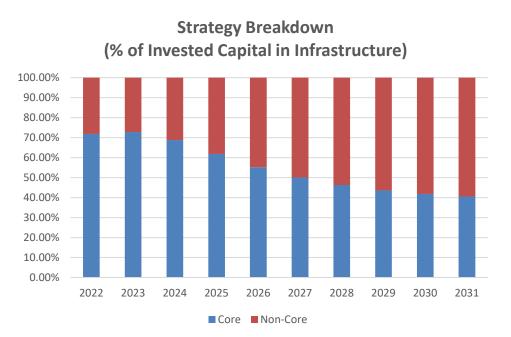
| Geographical Exposure     | US & Canada | Europe    | Asia Pacific<br>Developed | Rest of World |
|---------------------------|-------------|-----------|---------------------------|---------------|
| Proposed Allocation Range | 25 - 75%    | 25% - 75% | 0 - 25%                   | 0 - 20%       |



# Infrastructure: Pacing & Commitment Schedule

|                                      | Current<br>Commitment | Expected NAV end of 2024 | SAA<br>Target |
|--------------------------------------|-----------------------|--------------------------|---------------|
| Allocation Target as % of Total Fund | ~2.5%                 | 4%                       | 5%            |

- Targeting 4% Infrastructure allocation (i.e. within 1% of target) by 2024
- Targeting 5% Infrastructure allocation (i.e. full target allocation) by 2026
- → Goals: Hit target allocation in prudent time frame; reduce vintage year risk; avoid greatly overshooting target
- → Implementation: commit ~\$1.4B/year adjusted by total Fund growth



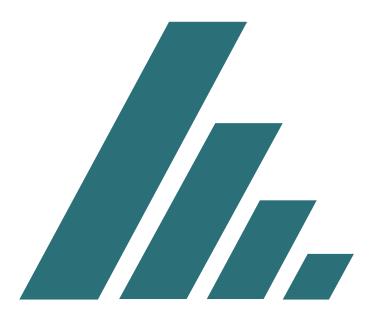
### Core vs. Non-core split

- Oversize core commitment through open-ended funds in early years:
  - Less vintage risk (since assets valued on cash flow as opposed to multiple)
  - Core deploys in two years (vs. five years for non-core)
  - Core has higher cash yield giving more flexibility for re-investment
  - Non-core progressively becomes a larger portion of allocation mainly due to return differential (i.e., 7% for core vs. 13% for non-core)



# Real Assets:

Natural Resources/Commodities



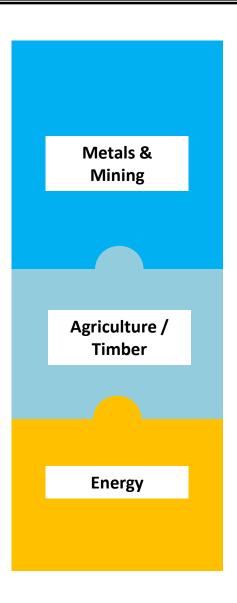
# Natural Resources Role & Objectives

### Role

- Diversify broad equity risk
- Serve as inflation hedge
- Generate income

### **Objectives**

- Generate income and / or stable capital appreciation
- Provide returns less correlated with broader markets
- Higher correlation to inflation





# Natural Resources Segments

| Segment         | Allocation Range | Private Deal<br>Returns <sup>1</sup> | Private Fund<br>Returns <sup>2</sup> |
|-----------------|------------------|--------------------------------------|--------------------------------------|
| Metals & Mining | 0 - 60%          | 12 - 25%                             | 8 - 20%                              |
| Agriculture /   |                  |                                      |                                      |
| Timberland      | 0 - 60%          | 7 - 20%                              | 5 - 11%                              |
| Energy          | 0 - 60%          | 12 - 25%                             | 10 - 20%                             |

- Natural Resources at 3% of LACERA Fund allocation targeting inflation hedging, diversification, and income generation
- Current public markets portfolio: 2% in S&P Natural Resources
   Index + 2% in Commodities
- Natural Resources investments across public and private markets, provide flexibility for opportunistic and patient deployment of capital while still reaching 2% private allocation by 2026
- \$350-500MM in annual commitment expected



<sup>&</sup>lt;sup>1</sup>Source Albourne. Target Deal Returns are underwriting targets, NOT realized results (i.e., not adjusted for potential losses).

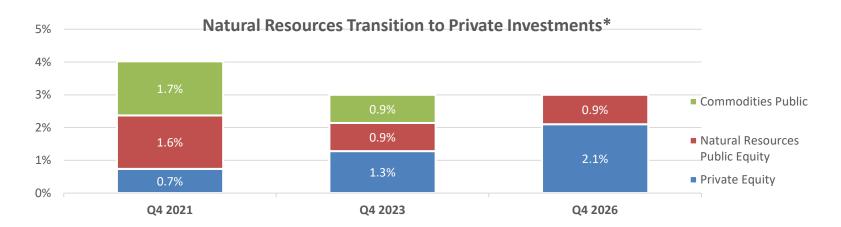
# Natural Resources Opportunities

| Segment  | Allocation | Public Markets   | Private Markets  |  |  |
|--|------------|--|--|--|--|
| Metals &<br>Mining   | 0 - 60%    | Base and Precious Metals Companies   | Private mining funds in Operating Projects or 2-3 years from development                                       |  |  |
| Geography Majority Tier I OECD mining jurisdictions with select non-OECD exposures |            |  |  |  |  |
| Agriculture /<br>Timberland  | 0 - 60%    | Ag Chemicals, Ag Products, Paper and Forestry  | Core Farmland, Agriculture Infrastructure (Farmland+), Agribusiness, Timberland                                |  |  |
| Geography  |            | Primarily OECD, with select non-O  | ECD exposures  |  |  |
| Energy   | 0 – 60%    | Exploration and production companies, Downstream, Petrochemicals, Chemicals Renewable Fuels, Synthetic Biotech | Produced, Developed, and Producing<br>oil and gas fields<br>Energy transition and low carbon<br>infrastructure |  |  |
| Geography  |            | Primarily OECD   |  |  |  |

- Natural Resources segments targeted through a mix of private and public market investments
- Private and public market opportunities across segments, provide flexibility in targeting segment allocation
  - I. Private market long-term oil and gas investment present stranded asset risk, and potential for conflict with evolving ESG Climate considerations
  - II. Energy investments in select energy transition and low carbon primarily in Private Markets, with renewable power in infrastructure



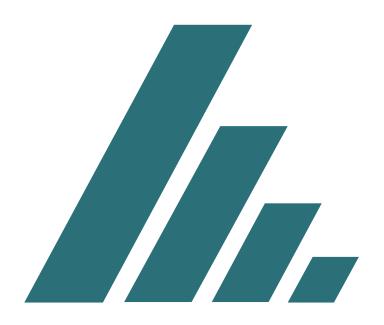
# Natural Resources Modeled Transition to Private



- Current natural resources portfolio, which is primarily in public markets, is transitioning to a mix of public and private markets over next 4-5 years
- Public commodities declining over time, replaced by private investments
- Energy investment exposure through public and private markets
  - Stranded asset risk for long-term (8-12 year) private equity style oil and gas funds, which have historically been volatile, with performance more highly correlated to public markets
  - Private strategies focused on select energy transition opportunities such as renewable fuels, carbon mitigation and carbon capture



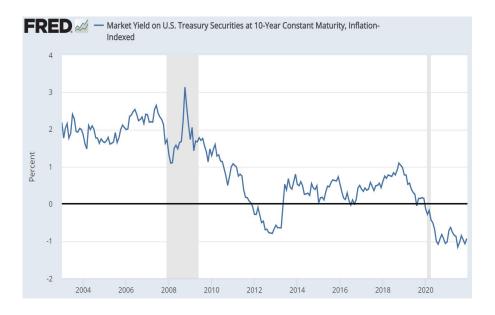
# Real Assets: TIPS



# **TIPS** Role and Objectives

### Role

- Inflation protection: Actual CPI + real yield
- Diversification to broad equity risk



## **Objectives**

- Generate returns based on actual inflation and increases in inflation expectations
- Low correlation to equities
- Hedge increases in unanticipated inflation
- Persistent low nominal bond yields and increasing inflation expectations\* result in lower real yields
- TIPS captured gains with reductions in real yields in 2019-2020
- TIPS cannot fully capture future inflation increases with currently negative real yields
- LACERA reduced underweight to TIPS in past year



# Real Assets: Next Steps



# **Emerging Manager Program**

### **Program**

- Initiate RFP Process for Delegated Custom Real Assets Separate Account Private Fund Assets Portfolio managed up to 10% of allocation
- Size program up to \$400 MM in total commitments in initial launch of program

### **Objectives**

- Source and Commit to Funds early in fund firm's life cycle (Fund I or II) or at small fund size
- Manage consistent with LACERA's TIDE policies
- Potentially achieve attractive terms for: fees, future capacity rights, GP revenue share, or other LP friendly Fund terms



# **Evaluation**

### What has Worked:



### **Inflation Hedging**

Commodities have rebounded with inflation

## **Elements of Diversification**

All commodities have outperformed Completion Portfolio has outperformed over full cycle

### **Area for Refinement:**



### **Exposure**

Higher correlation (beta) to public market within Real Assets

### **Private Investing Outlook**

- Inaugural private investment in mining fund and approval for secondaries farmland fund
- Core Infrastructure yields are decreasing while higher returning opportunities with some commercial risk remain
- Oil and gas presents stranded asset risk for long-term commitments and timber has continued to lack in returns
- General paucity of agricultural and mining funds, selectively pursue agribusiness funds



# Strategic Initiatives



# **Completed**

- Committed approximately \$1.8 billion in private Real Assets (ex-Real Estate) to date, including open-ended funds
- Updated benchmarks more accurately reflect target portfolios



### **In-Process**

- Interim period with private investments replacing public market portfolios; continue Real Assets (ex-Real Estate) transition to private assets
- In addition to fund commitments, actively sourcing and evaluating coinvestment opportunities; exploring alternative Real Asset structures



# **Upcoming**

 Further explore and consider fund investments in evolving opportunity set in private Energy Transition strategies



# Summary Investment Guidelines Recommendations

Infrastructure Risk Sub-CategoryPrivate Allocation RangeCore/Core+50 - 75%Non-core25 - 50%

| Infrastructure Sector Private Allocation Range | Energy   | Telecom  | Transport | Social  |
|--|----------|----------|-----------|---------|
| Core/Core+                                     | 35 - 65% | 10 - 40% | 5 - 25%   | 0 - 20% |
| Non-core                                       | 35 - 65% | 10 - 40% | 5 - 25%   | 0 - 20% |

| Infrastructure Private<br>Geographical Exposure | US & Canada | US & Canada Europe |         | Rest of World |
|---|-------------|--------------------|---------|---------------|
| Proposed Allocation Range                       | 25 - 75%    | 25% - 75%          | 0 - 25% | 0 - 20%       |

| Natural Resources  | Private Allocation Range |  |  |
|--------------------|--------------------------|--|--|
| Energy             | 0-60%                    |  |  |
| Metals Mining      | 0-60%                    |  |  |
| Agriculture/Timber | 0-60%                    |  |  |

| Private Investment Diversification Guidelines |   |
|---|---|
| Manager Diversification                       | Total General Partner less than 30% of Infra or Natural Resources MV plus undrawn commitments |
| Fund Concentration                            | LACERA no more than 40% of Total LP commitments for each Fund                                 |
| Minimum Commitment Size                       | \$10 MM   |



# Proposed New CIO Authority for Follow-on Real Assets Funds

### Recommendation

Incorporate CIO Authority for Follow-on Funds into the Real Assets Investment Guidelines

|                                   | Description  |  |
|-----------------------------------|--|--|
| CIO Authority for Follow-on Funds | The CIO is authorized to approve capital commitments in follow-on-funds up to \$250 million per fund or up to a 25% fund ownership increase compared to LACERA's ownership percentage in the predecessor fund, provided:   |  |
|                                   | <ul> <li>i. LACERA's prior investments in each predecessor fund greater than three years<br/>old (based on the fund's inception or commencement of operations date)<br/>exceeds the benchmark net IRR and net MOIC median returns for the fund's sub-<br/>asset class strategy, and</li> </ul> |  |
|                                   | <ul><li>ii. There have been no material changes in the investment strategy or key persons,<br/>and</li></ul>   |  |
|                                   | iii. LACERA's Real Assets consultant concurs with the investment   |  |
|                                   | The Board will receive written notification of all such actions from staff   |  |



# Board Approved Delegated Co-Investment & Secondaries Authority (July 2021)

|                              | Co-Investment Parameters  | Secondaries Parameters  |  |  |  |
|------------------------------|---|---|--|--|--|
| Sourcing                     | <ul> <li>Co-investments by Board-approved real asset<br/>GPs currently managing capital on behalf of<br/>LACERA</li> </ul>  | A fund managed by a GP in which LACERA is<br>an existing real assets investor   |  |  |  |
| Investment Size              | Up to \$50 million  |   |  |  |  |
| Geography                    | USA, Canada, Eurozone , UK, Australia, and NZ   | Global with Majority of Assets in developed markets   |  |  |  |
| Deal Types                   | Infrastructure     Natural Resources  | <ul> <li>Infrastructure and Natural Resources</li> <li>Fund must be at least 70% deployed,<br/>committed or reserved</li> <li>Fund must have been managed by current<br/>team for at least 3 years</li> </ul> |  |  |  |
| Deal Exposure                | LACERA's ownership of co-investment asset or Fund not to exceed 1/3 of total under GP (combining co-invest & fund exposure)   |   |  |  |  |
| Annual Capital<br>Deployment | \$250 million maximum cumulatively across co-investments and secondaries <sup>1</sup>   |   |  |  |  |
| Advisory<br>Confirmation     | Third party (Albourne) confirms LACERA's due diligence was satisfactorily followed  | Third party advisor confirms valuation  |  |  |  |
| Monitoring Policy            | <ul> <li>Prompt notification to Board in writing of CIO-approved co-investments or secondaries</li> <li>Updates to BOI annually on capital deployed via co-investments &amp; secondaries</li> </ul> |   |  |  |  |

<sup>&</sup>lt;sup>1</sup>This amount was initially \$100 million in the recommendation proposed to the Real Assets Committee. The Committee made a motion and approved an increase in this amount to \$250 million.



# **Recommendation Summary**

# Continue Private Asset Pacing in New Funds and Co-invests

- For Infrastructure, underwrite and commit to \$125-\$250MM Non-Core fund allocations to closed-ended funds and to \$300-600 MM Core fund allocations targeting an overall 5% allocation in 4-5 years
- For Natural Resources underwrite and commit to \$125-\$300MM Non-Core natural resources fund allocations to closed-ended funds targeting an overall 3% allocation in 4-5 years
- Evaluate and commit to co-investment opportunities when attractive and further align the portfolio with its objectives

### **Revised Guidelines**

Adopt revised guidelines on slides
32, 33, and 34



# Appendix



# Portfolio Structure Sub-Categories

| Asset Class                 | Income<br>Generation | Inflation<br>Linkage | Diversification<br>Benefits |  |
|-----------------------------|----------------------|----------------------|-----------------------------|--|
| Infrastructure              |                      |                      |                             |  |
| Core/Core+                  | High                 | Medium               | High                        |  |
| Non-Core                    | Medium               | Medium               | Medium                      |  |
| Natural Resources           |                      |                      |                             |  |
| Metals & Mining             | Low                  | Medium               | Medium                      |  |
| Agriculture /<br>Timberland | Medium               | Medium               | High                        |  |
| Energy                      | Medium               | High                 | Low                         |  |
| Commodities                 | Low                  | High                 | High                        |  |
| TIPS                        | Low                  | Medium               | High                        |  |

### **Real Assets (Excluding Real Estate)**

- More defensive than public equities
- Mix of diversification, income generation, and inflation hedging

### <u>Infrastructure</u>

Income generation and diversification

### **Natural Resources & Commodities**

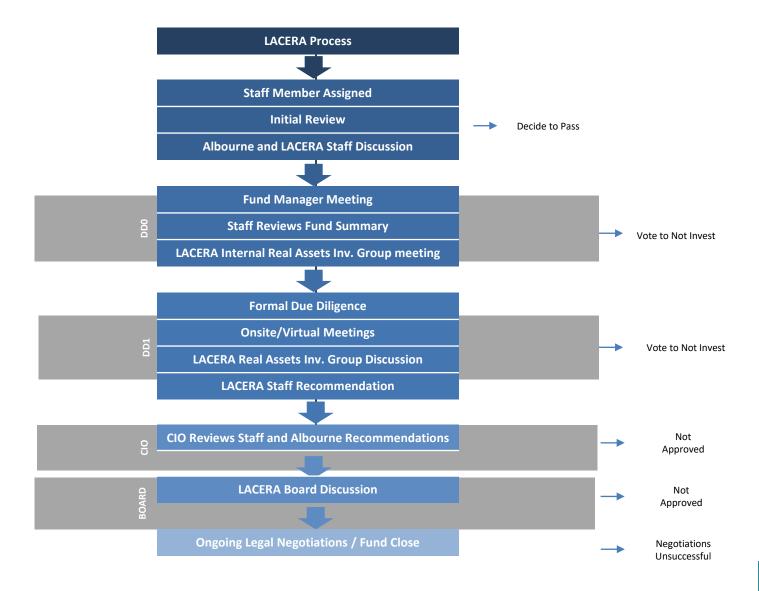
- Agriculture / Timber diversifiers to broader markets
- Commodities, energy, mining, and agriculture inflation hedge

### **TIPS**

- Inflation linkage through direct return of CPI plus real yield over bond life
- Diversification by preservation in down markets and inflation linkage

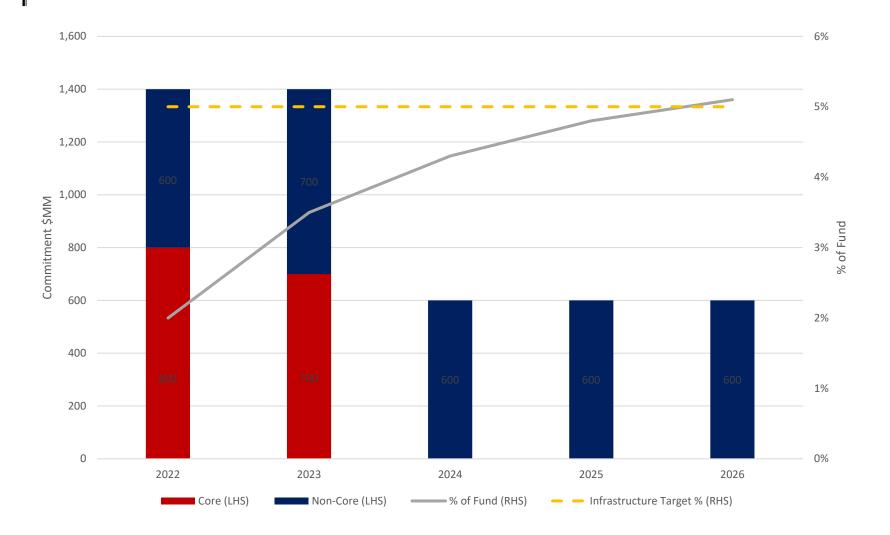


# **Investment Process**





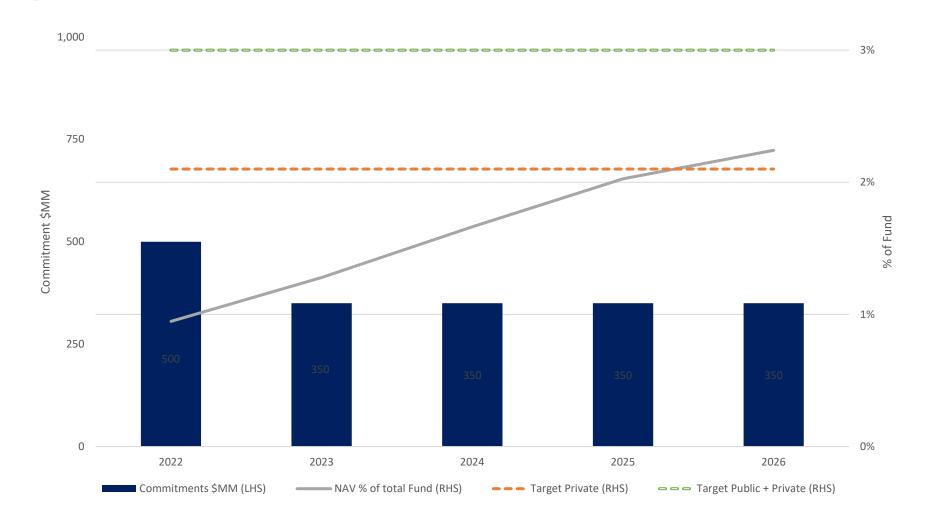
# Investment Pacing: Infrastructure





Source: Albourne.

# Investment Pacing: Natural Resources







### **LACERA Real Asset Structure Review Concurrence Memo**

December 20, 2021

**To:** Each Member

Real Assets and Inflation Hedges Committee

**Board of Investments** 

From: James Walsh, Mark White

Albourne America LLC

**For:** January 12, 2022 Real Assets Committee Meeting

**Recommendation:** Albourne America LLC ("Albourne") recommends that the 2021 Structure Review of LACERA's Real Assets Portfolio be advanced to the Board of Investments for approval.

**Background:** Staff has prepared the 2021 Real Assets Structure Review for the Real Assets and Inflation Hedges Committee and the Board of Investments for its consideration and ultimately its approval. Albourne has reviewed the Structure Review and agrees with the recommendations.

The Structure Review re-asserts the Investment Role and Objectives last approved in November 2019, which emphasize income generation, inflation sensitivity, and diversification characteristics to benefit from complexity, illiquidity, and upside optionality. The Structural Review notes that, with the approval the portfolio will continue to be built out to a 17% total Strategic Target. Sub allocations are to increase infrastructure to 5% from 4% and reduce natural Resources from 4% to 3%. The Next Phase of this build out is anticipated to be implemented over 1-4 years with the potential inclusion of an Emerging Manager Program.

**Conclusion:** Staff's Structure Review outlines the focus on current income generation, inflation sensitivity, and diversification. The review clearly establishes the objectives and parameters of the program and the actions necessary to move forward to meet targets.

Sincerely,

James Walsh

Head of Portfolio Group

Mark White

Senior Portfolio Analyst





### LACERA Real Asset Structure Review Concurrence Memo

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### LACERA Real Asset Structure Review Concurrence Memo

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