

Colorado State Land Board

Biological Carbon Program

National Assoc. State Trust Lands - Denver, CO
July 21, 2025

An innovative land trust funding Colorado schools since 1876.



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A wide-angle landscape photograph of a grassy plain under a blue sky with clouds and distant mountains. The foreground is filled with tall, dry grass. In the middle ground, there's a flat expanse of land with some small shrubs. In the far distance, a range of blue mountains is visible under a bright blue sky with scattered white clouds. The text "New Revenue, Enhanced Stewardship, Climate Goals" is overlaid in white, bold, sans-serif font, centered in the lower half of the image.

New Revenue, Enhanced Stewardship, Climate Goals

- **New Revenue Source**
 - **Voluntary carbon market** - offset projects
 - **Incentive-based** for SLB and its lessees
- **Enhanced Stewardship**
 - Use **regenerative grazing & cropland** practices
 - Significantly **improve stewardship** outcomes on state trust land
- **Increased soil carbon sequestration**
 - Contribute to **greenhouse gas reduction goals**
 - **Opportunity for biodiversity enhancement** projects as metrics develop

Grazing

Grassland Soil Carbon

Source: 4/12/2016
soilcarboncoalition.org



Cropland Soil Carbon



Biodiversity

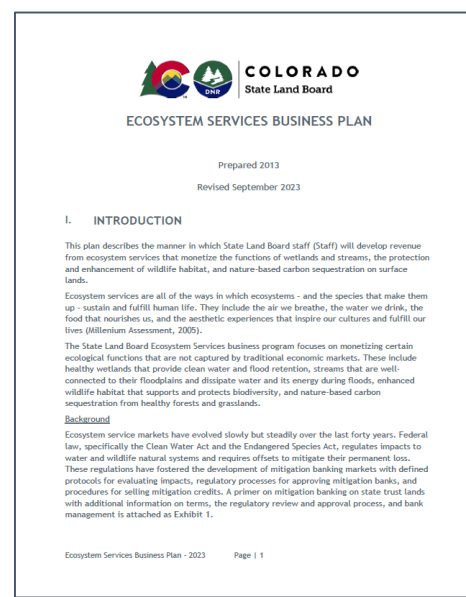
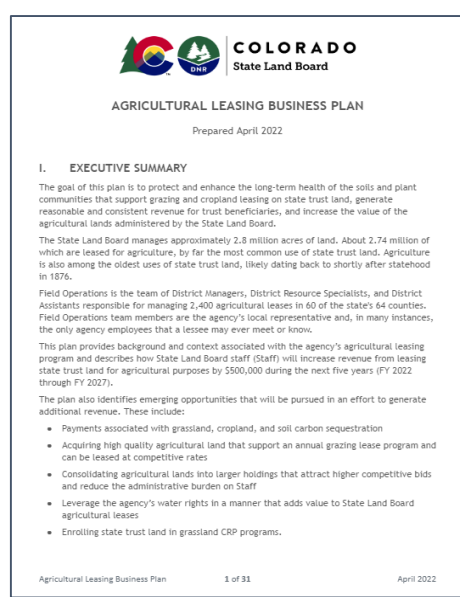
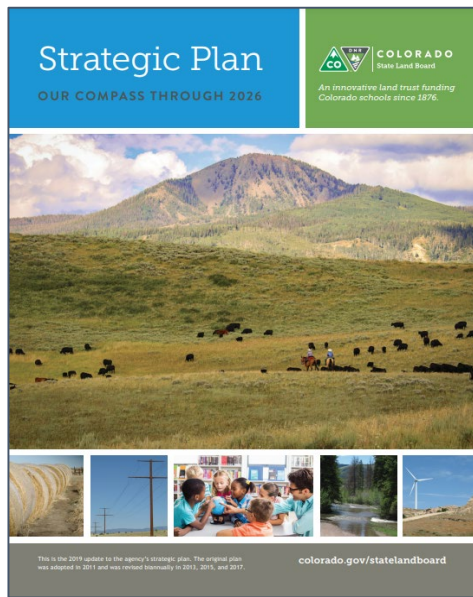


Forest Carbon

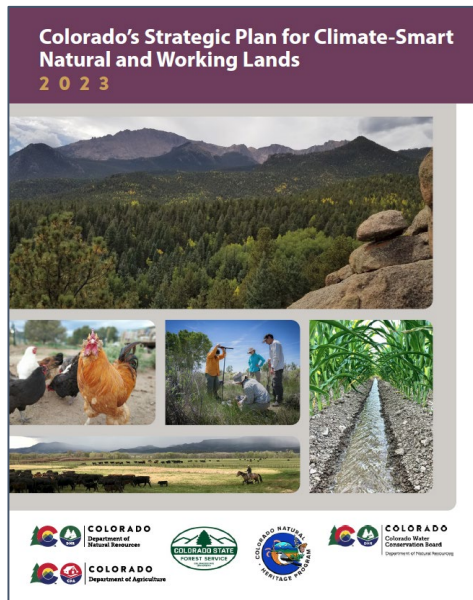
VOLUNTARY MARKETS



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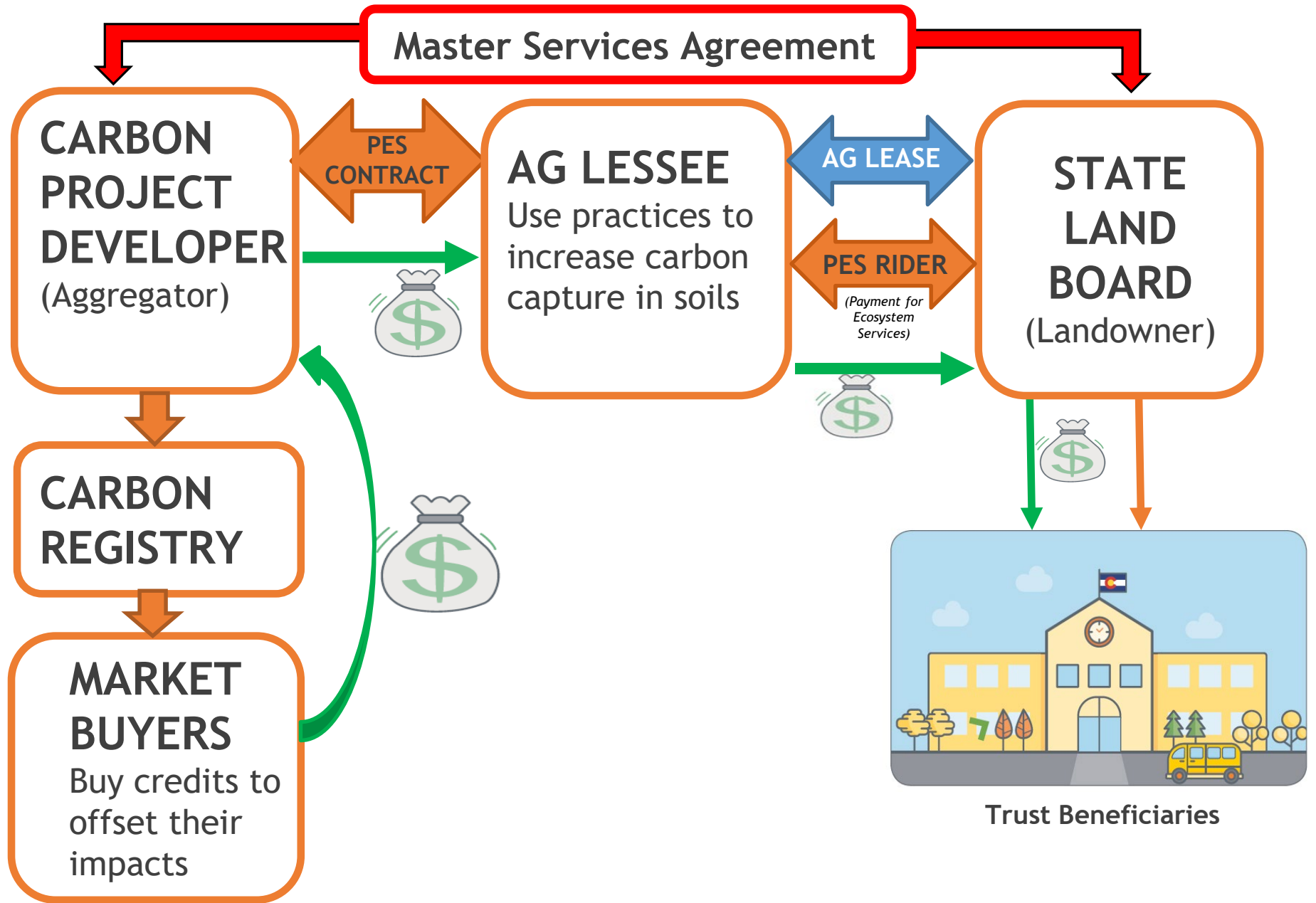
State Land Board plans



State of Colorado plans

SLB & STATE CARBON/GHG GOALS





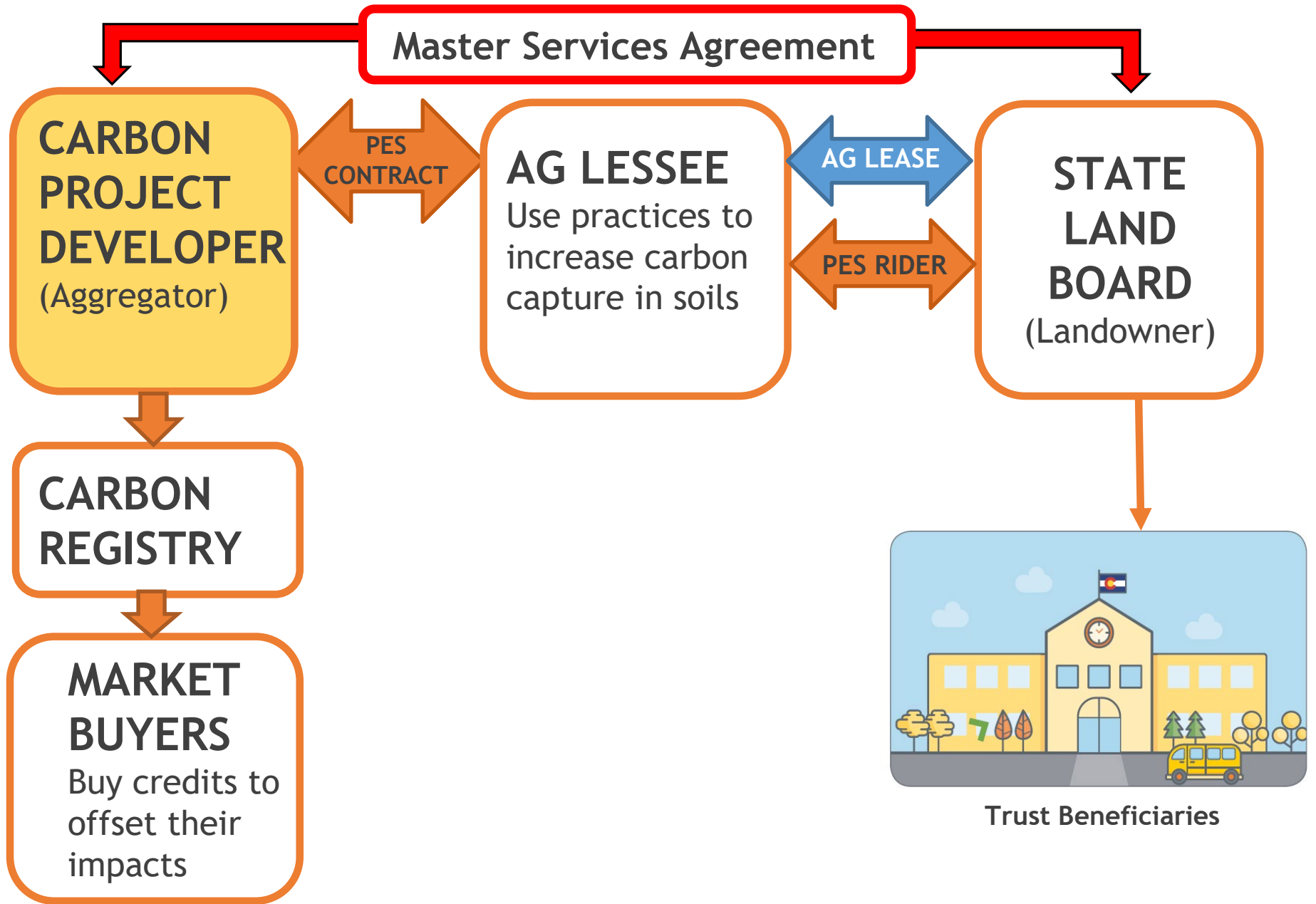
MARKET ACTORS & STRUCTURE



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Vetted Companies, Lessee Options

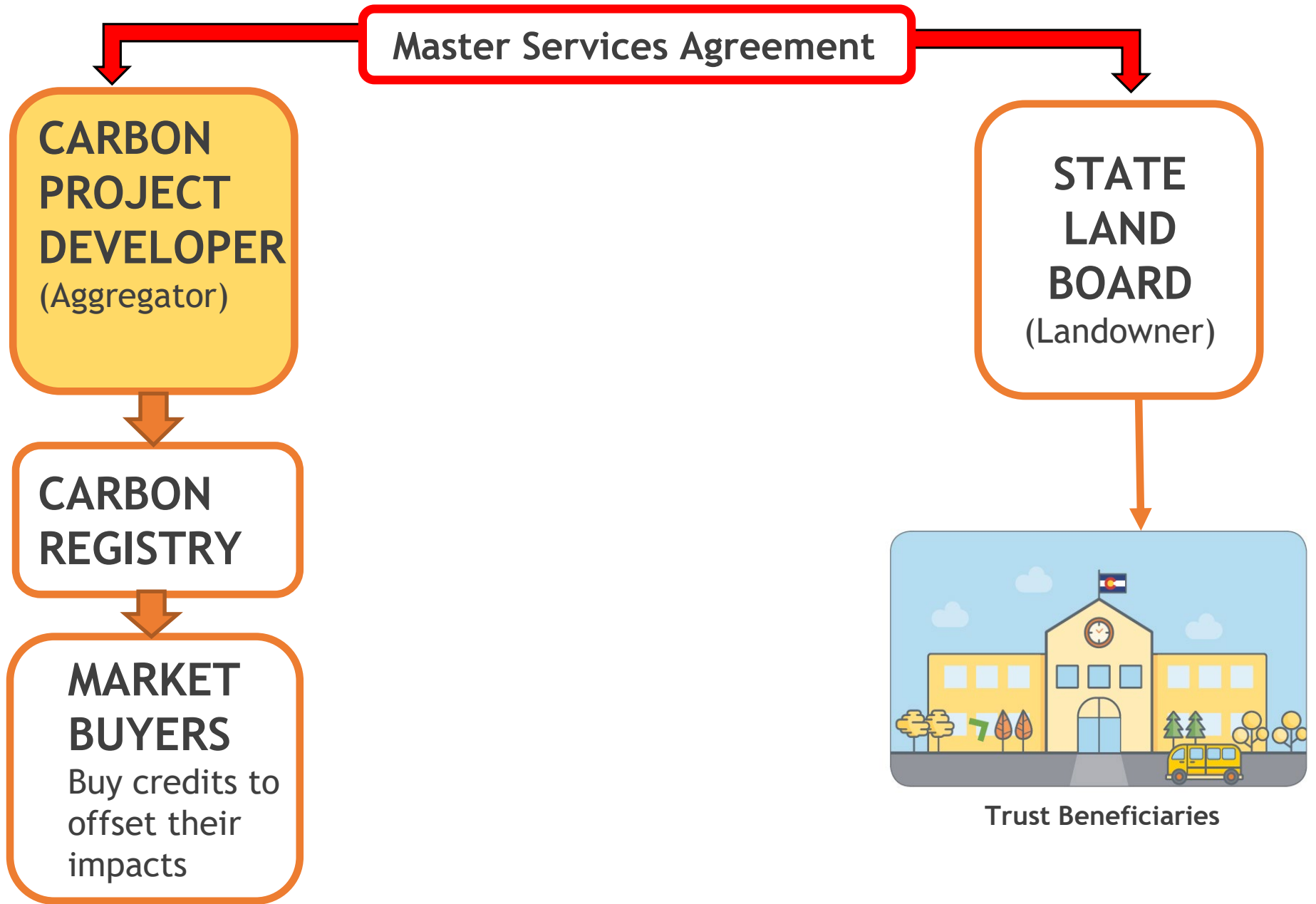




MARKET ACTORS & STRUCTURE



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MARKET ACTORS & STRUCTURE



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- **MillPont, Inc.** - selected by Staff for its experience and expertise in the voluntary carbon market
 - Knowledge and experience in the **agricultural community and commodity** markets
 - **Existing geo-spatial platform** tracks properties engaged in carbon market



MILLPONT, INC.



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1. Develop grassland carbon project contract specifications between SLB and lessee
2. Select “Best-Fit” project developers
3. Facilitate commercial terms between SLB and project developers
4. Identify and develop offtake market purchases
5. Portfolio management (identify involvement of state trust lands in the carbon market)

MILLPONT - 5 TASKS



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Goal: Select Qualified Carbon Project Developers that are the “Best-Fit” for SLB and its lessees

MillPont’s 9 Evaluation Criteria and Scoring Rubric

- Verified and Trustworthy Background
- Financial Stability
- Technical Expertise
- Experience
- Innovation, Adaptation & Flexibility
- Cost-effectiveness & Barrier Reduction
- Carbon Credit Quality (Rigor, Additionality, Causality, Durability, Safeguards)
- Co-benefits Beyond Carbon (environmental & social benefits)
- Transparency

QUALIFIED PROJECT DEVELOPERS



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Carbon Credit Quality: Are the carbon credits produced of **high quality** and **meet or exceed environmental standards**?

- a. **RIGOR:** Is the **scientific foundation and precision** of the project developer's primary carbon crediting approach **robust and reliable** in generating carbon credits?
- b. **ADDITIONALITY:** Are the credited carbon reductions or sequestrations are **truly additional** and would not have occurred under a 'business as usual' scenario?
- c. **CAUSALITY:** Are **GHG outcomes** (reductions or sequestrations) **related to the economic incentive** and would not have occurred under a 'business as usual' scenario? This reflects the quality in carbon insetting frameworks, i.e. is the carbon benefit connected to economic incentives provided for decarbonization activities in a given company's value chain?
- d. **DURABILITY:** Is there **long-term reliability** and **stability of carbon sequestration** ensuring that carbon reductions are maintained over time?
- e. **SAFEGUARDS:** Are provisions are in place to **protect landowners' land, data rights**, and broader **community engagement**?



MillPont, LLC:

1. Screens interested carbon project developers (CPDs)
2. Evaluates and scores CPDs against nine criteria
3. CPDs submit Form/template Contracts for SLB review
4. CPDs invited to review/comment on MSA

State Land Board:

1. Staff interviews CPDs with MillPont scores > 80 and meeting recommended SLB criteria
2. Recommends Board approval as Qualified Project Developers (QPDs)

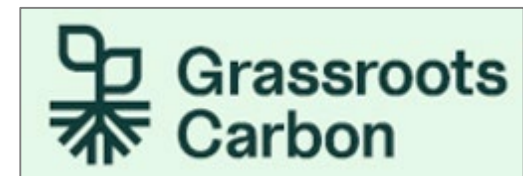
Identifying Qualified CPDs



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A. Improved Grassland Management (2 QPDs)

- Payment for enhanced grassland management practices demonstrated to increase carbon soil sequestration.
- VERRA's VM-0042: Methodology for Improved Agricultural Land Management or the Soil Enrichment Protocol
- Carbon credit payments split between SLB and agricultural lessee.



4 QPD'S APPROVED TO DATE

B. Reforestation



- Payment for reforestation (on burned trust lands).
- VERRA'S VM-0047 Methodology for Afforestation, Reforestation, and Revegetation
- Long-term rent payment to the SLB.

C. Avoided Grassland Conversion



- Payment for existing soil carbon; no management changes required.
- Am. Carbon Registry's ACoGS, v.2: Avoided Conversion of Grasslands & Shrublands to Crop Production
- Carbon credit payments made solely to the SLB.

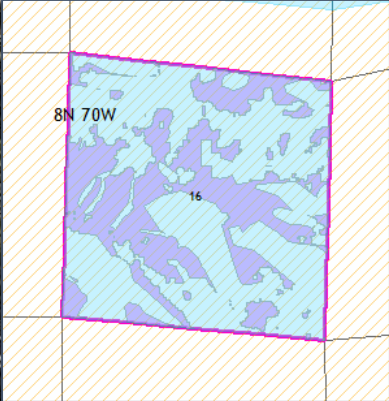
4 QPD'S APPROVED TO DATE



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**Burned 13 years ago in 2012
High Park wildfire**



LANDLIFE PROJECT



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1. Staff recommends *Qualified* Project Developers (QPDs) that are the “Best-Fit” for SLB and its lessees

- a. Millpont’s Evaluation and Scoring Rubric
- b. Staff recommended additional criteria

2. Board enters into a Master Services Agreement (MSA) with each QPD

- a. Approved PES Lease Riders will be attached.

QUALIFIED PROJECT DEVELOPERS



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Document	Purpose	Participating Parties			Approved by SLB
		SLB	QCPD	AG Lessee	
1. Master Services Agreement (MSA)	Establish terms for collaboration between the SLB and Qualified Carbon Project Developer (QCPD.	✓	✓		✓
2. SLB Agricultural (AG) Lease	Defines land use & management terms AG lessee. Serves as the foundational agreement for additional riders like PES.	✓		✓	✓
3. Payment for Ecosystem Services (PES) Lease Rider	Amends existing SLB AG leases to include ES rights: - Enables participation in the biological carbon program (PES Contract), and - Payment for carbon credits generated.	✓		✓	✓
4. Form Contract (Precursor to the PES contract)	The CQPD's own carbon program template/form. - Submitted to SLB for approval to ensure consistency and compliance with MSA. - If SLB approves form contract, the QCPD develops the PES Contract.		*	*	✓
5. PES Contract	Contract between QCPD and AG lessee with terms & obligations to implement projects and generate carbon or biodiversity credits.		✓	✓	✓

BIO CARBON PGM DOCUMENTS



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PROJECT ACTIVITY	Completed By
1. Project Sourcing and Evaluation: Identifying potential project sites and activities.	QPD & Lessee
2. Feasibility Studies: Assessing the technical and economic viability of the project.	QPD
3. Methodology Selection: Choosing appropriate methodologies for measuring and verifying emission reductions or removals.	QPD & Lessee
4. Project Design: Developing a detailed project design document outlining the project's scope, objectives, and implementation plan.	QPD & Lessee
(STATE LAND BOARD APPROVAL)	
5. Implementation: Carrying out the project activities, such as regenerative grazing practices or cropland practices.	Lessee
6. Monitoring, Reporting, and Verification (MRV): Continuously monitoring the project's performance, reporting data, and independent verification to ensure the integrity of the carbon credits.	QPD
7. Credit Issuance and Sale: Once the project is verified, carbon credits are issued and can be sold in the voluntary carbon market.	QPD

CARBON PROJECT STEPS



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Annual Carbon Payments are based on the amount of carbon sequestered in the soil (i.e. carbon credits generated).

- **Year 1:** Based on measured soil carbon
- Years 2-4: Based on *estimated* carbon sequestered
- **Year 5:** True up #1: Based on measured soil carbon
- Years 6-9: Based on *estimated* carbon sequestered
- **Year 10:** True up #2: Based on measured soil carbon

- All Monitoring, Reporting and Verification (MRV) done by **independent, third parties**.
- MRV costs **paid by the QPD**.
- Years 1, 5 and 10 involve soil sampling to determine **actual soil carbon levels**.
- Property monitored ‘in-between’ years **via remote sensing, aerial imagery**, ground-truthing, and/or **site inspections**.
- MRV costs are subtracted from the sale of credits, resulting in **Project Net Profit** shared between the Lessee and the SLB.



PES Contract includes a **30 or 40 yr project term**

- Initial 10-year carbon ‘crediting period’
- Two successive 10-year ‘storage periods’

Two Types of Reversals

- **Avoidable**
 - Minor/de minimus changes
 - Significant changes (> 2 to 5% of enrolled land)
- **Unavoidable** (‘Acts of God’)

30-YEAR PROJECT LENGTH



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SLB is **invested in the success** of the program & the grazing operations of its lessees:

- Increased stewardship outcomes
- Revenue for trust beneficiaries
- Support of greenhouse gas reduction goals

Lessees still must **make their own decision about program involvement** given:

- 30-year PES contract term
- Board's 10-year leasing structure does not guarantee AG lease renewal at year 10 or 20.
- Their ranch/farm operation goals, structure, etc.

State Land Board steps to ensure project success:

1. Include **assignment provision** in the PES Rider.
2. Continue competitive bid scoring which includes **40% of score to stewardship** practices and outcomes.
3. Set a **relatively high percent of property** subject to **de minimus** land use changes (5% vs. 2%)
4. **Commit to negotiate in good faith** with lessee and QPD to mitigate impacts of significant avoidable reversals.
5. **Limit eligibility of state trust land properties** by geographical location, size, ecological characteristics, or other factors.

Regenerative Agriculture Management



Regenerative Grazing

1. Higher Stock Densities
2. Shorter Duration Graze
3. Long periods of recovery
4. Staggered seasonality
 - a. Improves
 - i. Plant Diversity
 - ii. Water Cycle
 - iii. Carbon Cycle
 - iv. Drought Resilience
 - Quantifiable

Healthy Soil & Healthy Ecosystems

Regenerative Mng.



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Higher Stock Densities

- Hoof action
- Break up crust
- Concentration of manure
- Better forage utilization
- Litter on/in the ground
- Competition within the herd

Regenerative Mng.



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Shorter Duration Graze

- Avoid overgrazing
- Avoid over trample
- Insects
- Plant diversity
- Erosion

Regenerative Mng.



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Long periods of recovery

- Avoid overgrazing
- Quality of forage
- Quantity of forage
- Plant reproduction
- Erosion

Regenerative Mng.



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Staggered seasonality

- Diversity
- Quality of forage
- Quantity of Forage
- Wildlife

Regenerative Mng.



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Healthier Soil, Healthier Ecosystems, Healthier Livestock, Higher Revenues, Longevity of Working Lands





QUESTIONS/COMMENTS



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