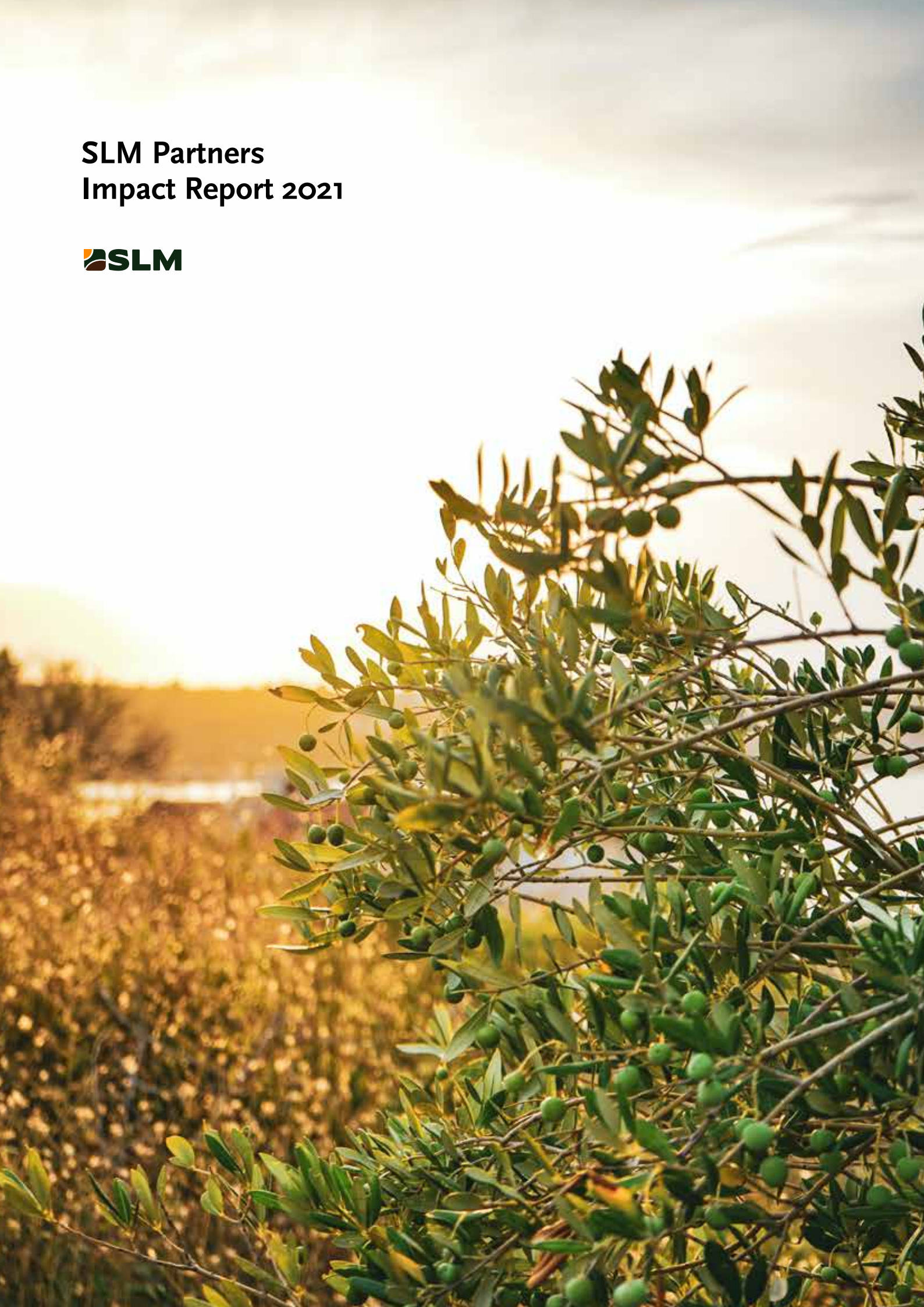


# SLM Partners Impact Report 2021



## TABLE OF CONTENTS

|   |   |
|---|---|
|    | <b>1. EXECUTIVE SUMMARY.....3</b>             |
|    | <b>2. WHAT WE DO.....6</b>                    |
|    | <b>3. OUR IMPACT APPROACH.....12</b>          |
|    | <b>4. IMPACT THEMES.....19</b>                |
|   | · SOILS                                       |
|   | · BIODIVERSITY                                |
|   | · WATER                                       |
|   | · CLIMATE                                     |
|   | · SOCIETY                                     |
|   | <b>5. STRATEGY PROFILE - AUSTRALIA.....25</b> |
|  | <b>6. STRATEGY PROFILE - IRELAND.....34</b>   |
|  | <b>7. STRATEGY PROFILE - USA.....39</b>       |
|  | <b>8. FUTURE ROADMAP.....46</b>               |

## EXECUTIVE SUMMARY

For over a decade, SLM Partners has pioneered investments in regenerative farming and forestry systems. We oversee 287,078 hectares of land and manage close to US\$200 million in assets across three continents. All our strategies seek to deliver market-rate financial returns by investing in real assets, while generating positive impacts on soil health, water, biodiversity and carbon storage, and building resilience to climate change and other risks.

SLM Partners integrates impact into the core of its investment strategies, from design to implementation. Our mission is to scale up regenerative land management approaches that are proven but not yet mainstream. We believe that we can only achieve truly sustainable financial returns if the underlying natural capital is thriving. Our strategies are rooted in a deep understanding of how land management has long-lasting environmental and social consequences, both positive or negative. Through all of our activities, we seek to carefully assess and manage for environmental and social risks, while also generating a positive impact. To evidence this impact, we undergo property-level on-field assessments and aggregate the data through industry-recognised impact reporting frameworks. We are also continuously seeking engagement with industry peers, financial market participants, scientific experts and members of rural communities, to support the adoption of more regenerative land management practices across the globe.

Through our investments, we seek to achieve impact across five major themes:

- Soils: reversing land degradation and building healthy soils
- Biodiversity: improving species diversity on farms and in forests
- Water: increasing water use efficiency and reducing pollution of waterways
- Climate: turning landscapes into carbon sinks and increasing resilience to climate extremes
- Society: revitalising rural communities while growing safe, healthy products for consumers

We are achieving these impacts through four distinct investment strategies around the world. In Australia, we manage a fund that has acquired 450,000 hectares of land for grass-fed beef cattle production. We have implemented holistic planned grazing to regenerate grasslands and improve animal welfare. Up until 2021, we also managed 158,412 hectares of land for the restoration of native woodland and generation of carbon credits. The project is sequestering 4,508,731 tonnes of CO<sub>2</sub> over 25 years under a carbon project verified by the Australian Government's Clean Energy Regulator. Today, following the sale of 2 properties, the Fund currently manages 284,500 hectares in Australia.

In Ireland, the SLM Silva Fund has acquired 1,513 hectares of semi-mature forest plantations. We are transitioning from a management regime based on clear-felling to a more sustainable form of forest management known as continuous cover forestry (CCF). This approach will store more carbon, improve species diversity, increase resilience to pests, diseases and storms, and deliver greater amenity value. Our forests sequestered 32,471 tonnes of CO<sub>2</sub> through biological growth in 2021.

In the USA, we manage separate accounts that are helping to scale up organic certified cropland for the production of grains. We partner with local farmers, acquire land near them and make this land available through long-term, flexible leases. Well-managed organic farms support more biodiversity, have healthier soils, store more soil carbon, and support higher farmer incomes.

We have launched a new fund in Europe that will invest in regenerative tree crops, including forestry, agroforestry and Mediterranean orchard crops, across multiple European countries. The Fund had its first close in December 2021 and started investing in 2022.

Looking forward, we continue to seek strengthening our impact measurements and reporting systems, not only because it is increasingly expected by investors, regulators and wider society but because it will allow us to validate an investment philosophy that has always been at the core of our business.

## Key Impacts

### Sustainable Land Management



**287,078**

hectares directly controlled



**100%**

of cropland organic certified or in transition to organic certification



**100%**

of cattle raised on natural grasslands using holistic planned grazing



**61%**

of forestland managed using continuous cover forestry (CCF)

### Products Grown in 2021



**1,312,020 kg**

of pasture-raised beef (liveweight) grown on Australian properties



**8,696 tonnes**

of organic cereals and oilseeds harvested on US farms



**41,674 m<sup>3</sup>**

of timber growth in Irish forests

### GIIN IRIS+ Impact Categories



#### Agriculture

Food Security  
Smallholder Agriculture  
Sustainable Agriculture



#### Land

Natural Resources Conservation  
Sustainable Land Management  
Sustainable Forestry



#### Biodiversity & Ecosystems

Biodiversity & Ecosystem Conservation



#### Climate

Climate Mitigation  
Climate Resilience and Adaptation



#### Energy

Clean Energy  
Energy Access  
Energy Efficiency



#### Water

Sustainable Water Resources Management  
Water, Sanitation, and Hygiene (WASH)



#### Pollution

Pollution Prevention



#### Health

Access to Quality Health Care  
Nutrition



#### Air

Clean Air



#### Waste

Waste Management



#### Employment

## SDGs Impacted



### Greenhouse Gas Emissions

- 32,471 tonnes of CO<sub>2</sub> equivalent (CO<sub>2</sub>e) stored in acquired Irish forests in 2021
- Pilot project in the USA demonstrating the potential to sequester 1.45 tonnes of CO<sub>2</sub>e per acre per year (or 3.6 tCO<sub>2</sub>e/ha/year) in Illinois under organic cropping transition.
- 1,634,701 Australian Carbon Credit Units (ACCUs) generated and sold from 2016 to 2021 because of native woodland regeneration on properties



### Biodiversity

- Less than 0.01% of the area (19,5 hectares) were managed with pesticides
- 99,316 hectares, totalling 35% of managed land, under ecological restoration or managed for biodiversity



### Ecosystems Systems Provided

- Food - Freshwater - Regulation of climate - Regulation of water timing and flows - Erosion control - Disease mitigation - Maintenance of soil quality - Pest mitigation - Pollination - Habitat - Nutrient cycling - Primary production - Water cycling - Educational and inspirational values



### Water

- All farming and forestry operations are rainfed without irrigation



### Society

- 45.7 full-time equivalent (FTE) direct jobs created across all operations
- 8 farmers given access to land in the US organic cropping strategy

<sup>1</sup> Each ACCU issued represents one tonne of carbon dioxide equivalent (tCO<sub>2</sub>e) stored or avoided. ACCUs issued by Australian Government's Clean Energy Regulator

## WHAT WE DO

Our world is faced with major environmental challenges: degrading soils, depleting water reserves, shrinking biodiversity and, perhaps most urgently, climate change. Conventional farming and forestry systems are major contributors to these problems. But there are proven regenerative land management approaches that can grow the food and fibre we need, while restoring soils, preserving water, adding biodiversity and absorbing carbon from the air. These systems are not just sustainable but regenerative. In many cases, they can also generate attractive, risk-adjusted economic returns.

Financial investors are showing a greater interest in real assets such as farmland and forestry. They see these sectors as a way to generate income in a low yield environment, and protect against inflation, while preserving and growing their capital.

The global finance industry is also strongly focused on climate change and other environmental issues through initiatives such as the Task Force on Climate-related Financial Disclosures (TCFD) and the EU's Sustainable Finance Disclosure Regulation (SFDR). There is increasing pressure on institutional investors, from regulators and beneficiaries, to contribute to the Paris Alignment process. Investors will need to show that their portfolios are aligned to climate goals by 2030, with a net zero carbon target by 2050. There is growing attention on the importance of biodiversity as well, as part of an over-arching goal to move towards a low-carbon, sustainable, resource-efficient and circular economy.

SLM Partners is an asset manager that uses institutional capital to scale up regenerative land management that help deliver these environmental goals. Since our establishment in 2009, we have invested in regenerative farming and forestry systems that enhance natural capital and promote the transition to a low carbon economy, while delivering market-rate financial returns and reducing the risks of land-based investments. At the end of 2021, we had close to US\$200 million in assets under management or capital commitments. We have developed and implemented three investment strategies across three continents focused on grass-fed beef, organic grains and continuous cover forestry (CCF). In the end of 2021, we had the first close of the SLM Silva Europe Fund, a new European strategy focused on forestry and permanent crop investments.

This document is the second global impact report published by SLM Partners. It describes our impact measurement approach and presents the impacts we have made so far through our investment strategies. It also explains how we seek to enhance our impact measurement and reporting as we develop new strategies. Scaling regenerative land management systems that enhance natural capital has been the mission of SLM Partners from the onset. We look forward to continuing our journey with investors, farmers, foresters, and our other partners.



# Geographical Coverage

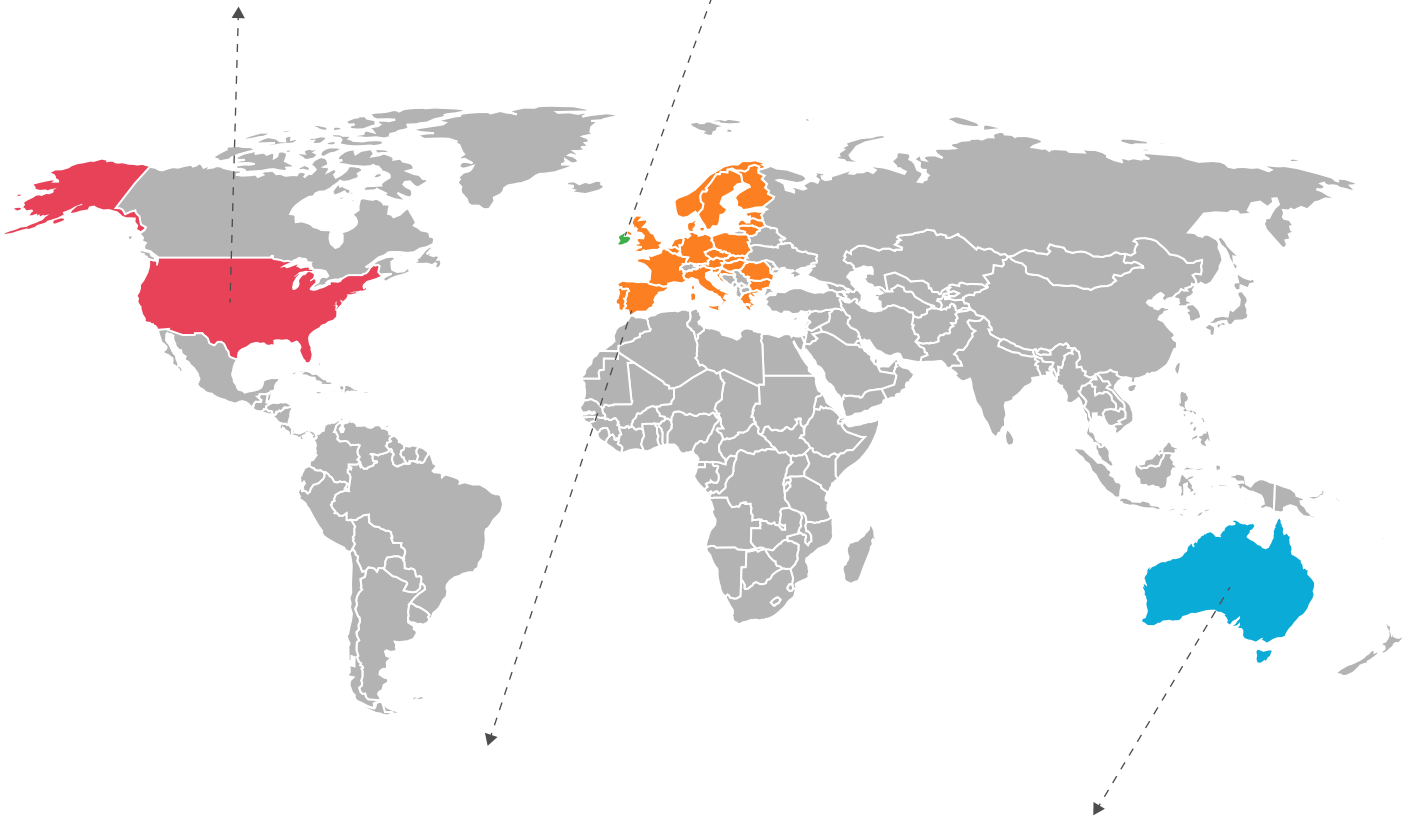
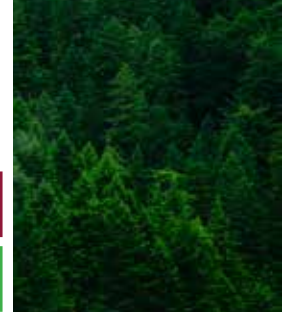
## USA

- Area: 1,065ha
- Strategy: Organic Grains
- AUM: US\$80m
- SDG Impact:



## Ireland

- Area: 1,513ha
- Strategy: Continuous Cover Forestry + Afforestation
- AUM: US\$35m
- SDG Impact:



## Pan European (Launched in 2021)

- Strategy: Diversified Tree Crops, including Timber, Nuts, Olives, Cork
- First close in December 2021
- SDG Impact:

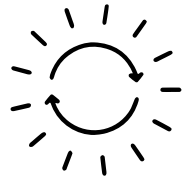


## Australia

- Area: 284,500ha
- Strategy: Grass-fed Beef, Holistic Grazing
- AUM: US\$60m
- SDG Impact:



# Timeline



## 2020

Establishment of US\$75m separate account in US with institutional investor for organic farmland; development of a pan-European regenerative land management strategy

## 2018

1<sup>st</sup> close of Irish forestry fund, SLM Silva Fund, anchored by European Investment Bank

## 2016

JV with Irish forestry company, Purser Tarleton Russell Ltd, to develop sustainable Irish forestry fund

## 2012

Establishment of SLM Australia Livestock Fund with AU\$75 million

## 2009

Co-founders establish SLM Partners in London

## 2021

Launch of SLM Silva Europe Fund; acquisition of 7 farms in the US Midwest on behalf of investor separate account; sale of carbon project in Australia.

## 2019

Acquisition of 4 farms in US Midwest on behalf of investor separate account; final close of SLM Silva Fund

## 2017

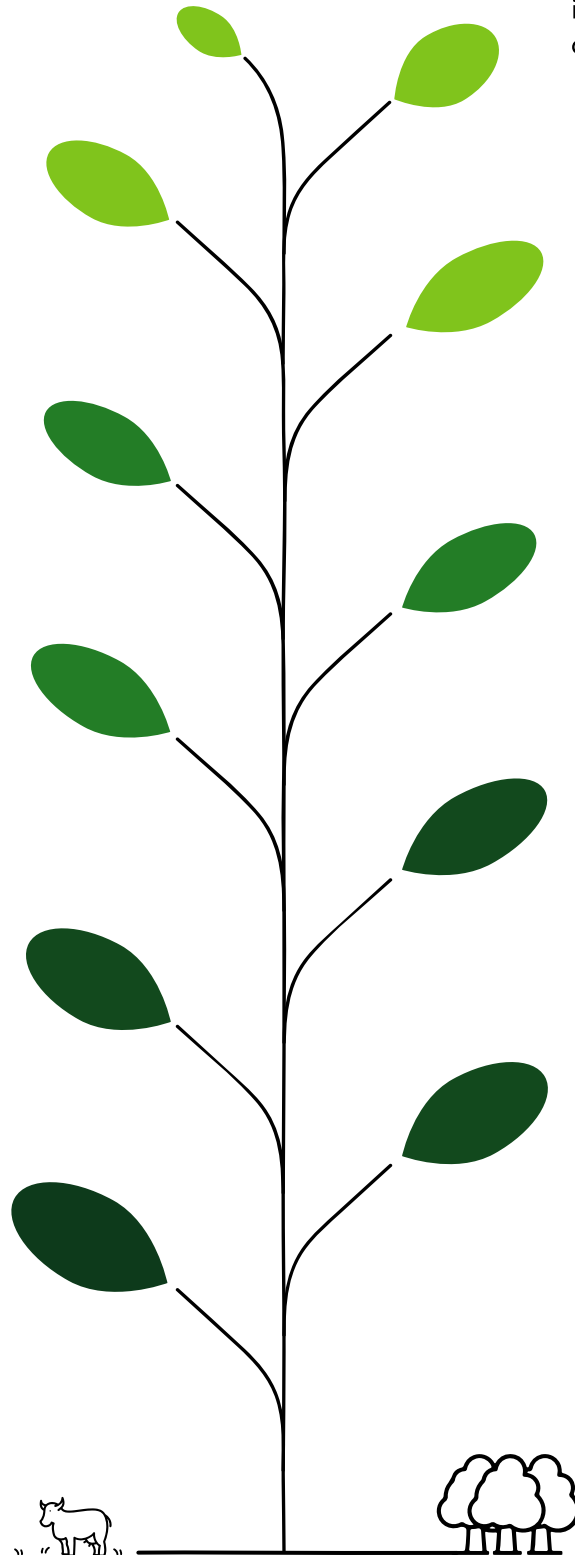
Team in New York starts to develop US organic farmland strategy

## 2013-2015

Acquisition of 15 properties in Australia and deployment of capital on grazing infrastructure and cattle

## 2010

JV with Australian management partners to develop cattle fund





## Our Investment Philosophy

### Agriculture and forestry investing today

Farmland and forestry have emerged as an alternative asset class for investors looking to diversify their portfolios. While land-based investments tend to have similar return profiles to other real assets, they fundamentally differ in their risk profile. Investments in agriculture and forestry are all about managing biological assets that rely on natural capital and a healthy surrounding environment. Ultimately, agriculture and forestry cannot be dissociated from nature.

However, many conventional food and timber production systems neglect this fundamental premise. They exploit, rather than work with, nature. This exposes them to many risks. They rely heavily on external inputs, which can be expensive and volatile, eroding margins. They degrade the natural capital – soils, water and biodiversity – on which they depend. Over-specialised landscapes with few species are more vulnerable to a changing climate and more susceptible to pests and diseases. Industrial

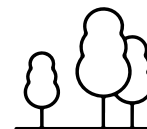
farming and forestry systems generate negative environmental externalities – such as water pollution – that will be increasingly taxed or regulated. As consumers wake up to their environmental impacts, consumption trends are shifting, leaving traditional operators exposed.

**Our mission at SLM Partners is to scale up regenerative land management.**

**We believe one can only achieve truly sustainable financial returns if we are enhancing natural capital.**



## Our Investment Philosophy



### Regenerative farming and forestry: an attractive alternative

There is an alternative way to manage land that can minimise these risks, while increasing profitability. Regenerative farming and forestry systems seek to build soil health, minimise external inputs and production costs, recycle nutrients and energy, embrace product diversity, and produce high value food, fibre and timber. These systems enhance natural capital by restoring biodiversity, improving water quality, reducing greenhouse gas (GHG) emissions and sequestering carbon in soils and trees. Aside from playing a key role in climate change mitigation, these production approaches increase resilience to extreme weather events and enhance climate change adaptation.

Regenerative farming and forestry systems can be more profitable than conventional methods. They can achieve high and more consistent yields, while making the most of natural cycles and reducing input costs. The pursuit of organic farming and certified timber production can unlock additional value by targeting higher value markets. There are also increasing opportunities to monetise positive externalities, for example by generating and selling carbon credits. Nature-based climate solutions that increase the amount of carbon stored in soils and trees will play an important role in the battle against climate change.

Regenerative land management methods can be practised on a commercial scale, and they are firmly science-based. We have identified a number of proven systems that have investment merit.

They include:

- Holistic planned grazing systems for livestock
- Regenerative, organic and more biodiverse annual cropping systems
- Integrated tree crops and agroforestry systems for nuts, fruits, cork and other products
- Continuous cover forestry

### Investing for impact

All around the world, there are brilliant farmers and foresters who have developed profitable, high-impact systems according to these sustainable management principles. They need capital to expand this impact to more hectares. In developed countries, where we focus, investors can directly assist by acquiring or leasing land and placing it in the hands of these expert operators. Successful investment strategies involve long-term partnerships between investors and carefully-selected farmers and foresters, acting as stewards of the land with aligned incentives.

We believe that regenerative land management strategies can deliver superior risk-adjusted returns, while generating tangible positive environmental impacts at scale.

By adopting regenerative management practices, the farmers and foresters we work with contribute directly to our biosphere; restoring and enhancing natural capital and ecosystem services our societies and economies depend on.

The biosphere is represented by in the below “wedding cake model” from the Stockholm Resiliency Center by SDG objectives 13 (Climate Action), 14 (Life Below Water), 15 (Life on Land) and 6 (Clean Water and Sanitation). Without functioning ecosystems which provide life on land and in the ocean, clean drinking water and climate action, we cannot achieve societal and economic goals.



# Strategy Development



SLM Partners integrates impact into the core of its investment strategies. Through a combination of top-down and bottom-up analysis, we design strategies that deliver positive environmental impacts within a robust financial context. We believe that we can only achieve truly sustainable financial returns when the underlying natural capital is also thriving.

*Top-down analysis:* As part of our pre-investment research, we select low-risk, stable geographies that possess competitive agricultural and forestry sectors. We identify specific products and markets that are aligned with our regenerative land management philosophy but also have attractive supply-demand dynamics and good growth prospects. We then pick regions within selected geographies that offer a favourable combination of attractive land values and suitable soil and climatic

conditions for growing our target products. We also assess climate change risk and understand how this can be mitigated by improved soil health.

*Bottom-up analysis:* This part of our process happens concomitantly with the top-down analysis. Our starting point is identifying regenerative land management systems that deliver superior profits and clear environmental benefits and that can be scaled. We rely on the local knowledge of farmers and foresters who have a strong track record in managing such systems. We then select the best operators to partner with, thus reducing our execution risk. Local partners also play a key role in originating deals, finding off-market opportunities and assisting in due diligence when purchasing properties.

## Top-Down

- Focus on lower-risk developed countries
- Target competitive agricultural and forestry regions
- Identify attractive commodity markets
- Understand land markets and economics
- Perform climate impact assessment



## Bottom-Up

- Identify profitable and scalable regenerative systems
- Partner with 'best-in-class' land managers
- Assess environmental and social impacts
- Develop pipeline and investment opportunities

**Investable  
Strategy  
with Impact  
at Core**

## OUR IMPACT APPROACH

Our strategies are rooted in a deep understanding of how land management has long-lasting environmental and social consequences, both positive or negative. Through all of our activities, we follow three principles:

### • ESG - Risk & Governance:

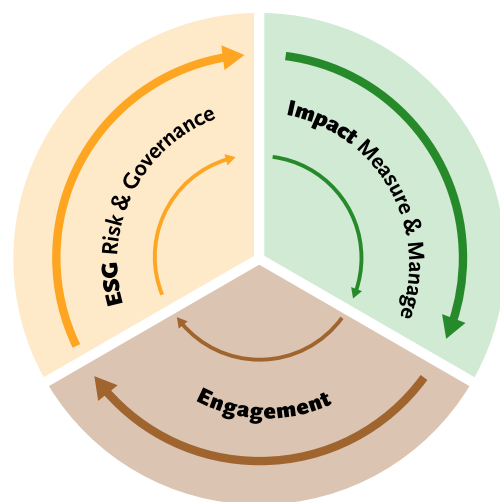
We integrate environmental, social and governance factors across our investment process and decision making for all our strategies. Given the nature of our investments, natural capital risks are deeply embedded in our risk assessments. We also leverage certification schemes and voluntary industry groups to hold us accountable to industry-wide best practices related to environmental and social risks and opportunities.

### • Impact - Measure & Manage:

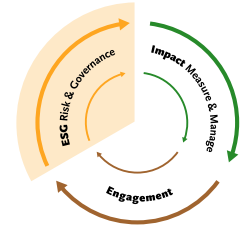
As an impact-driven firm, all of our strategies go above and beyond ESG integration, seeking the dual-outcome of generating both financial return and positive environmental outcomes. Our approach to measure this impact is rooted in the realities of the farms and forests we invest in. We collect property-level data and then aggregate this data through the Global Impact Investing Network's IRIS+ impact measurement metrics and framework.

### • Engagement:

We greatly value collaboration across the industry, bringing together financial service participants, scientific experts and members of rural communities. Through our involvement in industry initiatives, research projects and trainings, we can help raise the bar for sustainable land management to positively influence land outside of just our own portfolios.



## ESG: Risk & Governance



### Natural Capital risk management

As part of our initial due diligence to define the opportunity set, we carefully assess and manage natural capital risks. This includes climate, fire, water availability and legal rights for both surface water and groundwater, biodiversity, quality of soil and risks of pollution in soil and waterways. Achieving the granularity necessary to inform investment decisions requires bottom-up research, involving field experts and people with on-the-ground local experience. We leverage our operating partners, as well as governmental data, NGO reports, climate models and water stress models from peer-reviewed academic research.

Crucially, the regenerative management practices implemented through our strategies are a risk management tool as they directly address and manage for our dependencies on nature. The key overarching principle across all our properties is to restore and enhance natural capital by building back soil health, increasing biodiversity and increasing resource efficiency usage. Ultimately, this creates land systems that are more resilient to climate change, pests and diseases and supply shocks.

### Third-party certification programmes

Many of our products are sold through regulated and certified markets that require independent and external certification covering multiple ESG factors. In the US, we specifically work with tenants who either manage under organic certification already or who will transition the land to organic certification. The process to transition to USDA organic typically takes around 36 months. In Ireland, we are committed to having 100% of our forests certified under the most relevant certification scheme for our forestry products, such as the programme for the Endorsement of Forest Certification (PEFC) or the Forest Stewardship Council (FSC). We rely on third party certification to verify practices and outcomes related to our farm and forest investments.



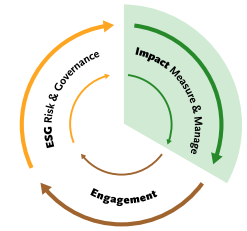
### Industry Frameworks

As a signatory of the UN Principles for Responsible Investment, we have explicitly stated our commitment to act in the best long-term interest of our beneficiaries, recognizing that environmental, social and corporate governance issues can be financially material, and report along the UN PRI's 6 principles.

We also ensure our activities and those of our local operators uphold international labour standards and human rights, in line with the International Bill of Human Rights, the International Labour Organization core standards and the UN Guiding Principles.



# IMPACT: Measure & Manage



## Property-Level Assessments

To ensure an accurate analysis of what is happening in individual farms and parcels of forest, we have developed and apply bespoke impact measurement systems at the property level to assess outcomes that are relevant to individual land management strategies. These assessments supply the necessary data that underpins the IRIS+ impact indicators but also supplement reporting gaps not covered by the available metrics. Where possible, these property-level assessments are carried out by third parties and provide more detailed evidence of the impact from our activities.

More detail on property-level assessments can be found in the strategy profile sections.

## Industry Frameworks

SLM Partners has developed an impact measurement and reporting system that can be applied to different investment strategies across multiple regions. The starting point is identifying and gathering relevant impact data at the farm and forest level. Where possible, the collection of the data and related analysis is undertaken by external organisations. We also work with third party certification bodies where certification programs are relevant.

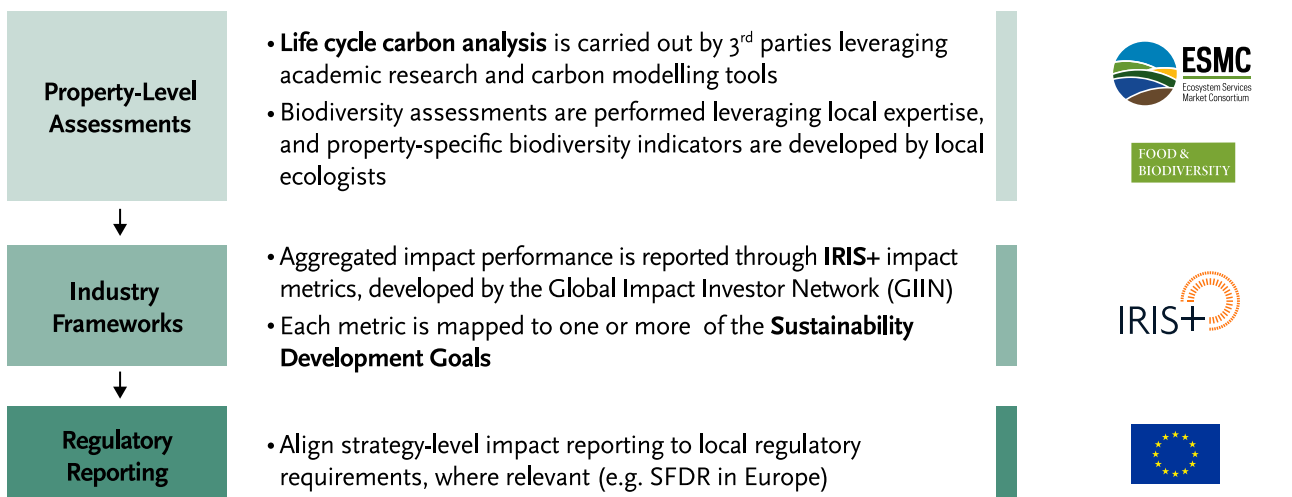
The next step is to converge and align this varied set of data with key impact and sustainability metrics within accepted reporting standards. To do this, we leverage two high-level frameworks: the Global Impact Investing Network's (GIIN) IRIS+ and the UN Sustainable Development Goals (SDGs). The

IRIS+ database offers industry-specific metrics through which we can assess and monitor our aggregated impact performance, zooming into what is most material for our asset base. Each IRIS+ metric we report against is mapped to one or more SDGs. This allows us to articulate our impact thesis and performance through a widely recognised and used framework, enabling us to cater for a wide set of investors and other stakeholders.



































## Regulatory Reporting

At the most basic level, all our investments and operations follow the legal and regulatory requirements inherent to each local and national jurisdiction. This includes respecting local land, environmental and resource rights, adhering to labour and human rights legislation, and upholding high business and ethical standards.

At the sectorial level, the financial industry continues to undergo a gradual regulatory and governance overhaul with ever-increasing regulation around ESG and impact investments. One noticeable example is the initiative led by the European Union with the EU Sustainable Finance Disclosure Regulation (SFDR) and the EU Taxonomy. Such developments are a positive trend that will help give investors a much-needed transparent and robust framework to better assess managers on their ESG and impact performance. We are committed to ensuring our impact products adhere to the relevant regulatory requirements in each geography.



# Selected IRIS+ Metrics

| GIIN IRIS Metrics   | Description  | Type         | Reporting Format              | GIIN IRIS - Primary Impact Categories   | GIIN IRIS Other Impact Categories  | SDGs   |
|---|--|--------------|-------------------------------|---|--|--|
| Crop Type   | Type of crop(s) produced by the organization during the reporting period.  | Qualitative  | Selection                     |   |  |  |
| Livestock/Fish Type   | Type of livestock product(s) produced by the organization during the reporting period.   | Qualitative  | Selection                     |   |  |  |
| Land Directly Controlled: Total                             | Area of land directly controlled by the organization during the reporting period.  | Quantitative | ha                            |   |  |  |
| Land Directly Controlled: Cultivated                        | Area of land directly controlled by the organization and under cultivation (i.e. minimum-till, seeding)  | Quantitative | ha                            |                               | <br>   | <br>   |
| Land Directly Controlled: Sustainably Managed               | Area of land directly controlled by the organization and under sustainable cultivation or sustainable stewardship.   | Quantitative | ha                            | Agriculture   | Biodiversity & Ecosystems<br>Employment<br>Health<br>Land  | <br>   |
| Land Directly Controlled: Treated with Pesticides           | Area of land directly controlled by the organization and treated with pesticides.  | Quantitative | ha                            |   |  | <br>   |
| Biodiversity Assessment                                     | Indicates whether the organization has undertaken biodiversity-related assessments to evaluate the biological diversity present on the land that is directly or indirectly controlled by the organization. | Qualitative  | Yes/No                        | <br>Biodiversity & Ecosystems | <br>Biodiversity & Ecosystems   | <br><br><br> |
| Greenhouse Gas Emissions Strategy                           | Indicates whether the organization implements a strategy to reduce greenhouse gas (GHG) emissions.   | Qualitative  | Yes/No                        |   |  |  |
| Greenhouse Gas Emissions Avoided Due to Carbon Offsets Sold | Amount of greenhouse gas (GHG) emissions avoided through carbon credits sold during the reporting period.  | Quantitative | Metric Tons of CO2 equivalent |                             | <br>   | <br>   |
| Greenhouse Gas Emissions Sequestered                        | Amount of greenhouse gas (GHG) emissions sequestered by the organization during the reporting period.  | Quantitative | Metric Tons of CO2 equivalent | Climate   | <br>   | <br>   |
| Greenhouse Gas Emissions Mitigation Types                   | Indicates greenhouse gas emissions mitigation types applied by the organization during the reporting period.   | Qualitative  | Selection                     |   | Air / Energy / Land / Pollution  |  |
| Forest Management Plan                                      | Indicates whether the organization implements a forest management plan.  | Qualitative  | Yes/No                        |   |  |  |
| Type of Land Area   | Describes the type(s) of land present on hectares directly or indirectly controlled by the organization. Report for hectares controlled at any point during the reporting period.                          | Qualitative  | Selection                     |                             | <br><br><br> | <br>   |
| Ecosystem Services Provided                                 | Describes the ecosystem services provided by land directly or indirectly controlled by the organization, during the reporting period.  | Qualitative  | Selection                     | Land  |   | <br>   |
| Area of Trees Planted: Native Species                       | Area of land on which native species of trees were planted by the organization during the reporting period.  | Quantitative | ha                            |   | Agriculture / Biodiversity & Ecosystems / Employment / Climate / Water   |  |
| Area of Trees Planted: Total                                | Area of land on which trees were planted by the organization during the reporting period.  | Quantitative | ha                            |   |  |  |

# Selected IRIS+ Metrics

| GIIN IRIS Metrics                               | Description  | Type                       | Reporting Format               | GIIN IRIS - Primary Impact Categories   | GIIN IRIS Other Impact Categories   | SDGs  |
|---|--|----------------------------|--------------------------------|---|---|---|
| Ecological Restoration Management Area          | Area of land under ecological restoration management during the reporting period.  | Quantitative               | ha                             |   |   |   |
| Soil Conservation Practices                     | Indicates whether the organization implements best soil conservation practices to minimize soil erosion and avoid degradation of agricultural lands. | Qualitative                | Description                    |   |   |   |
| Soil Health Practices                           | Indicates which sustainable agriculture best practices the organization implements to maintain and enhance soil health of agricultural lands.        | Qualitative                | Description                    |   |   |   |
| Water Quality Practices                         | Indicates whether the organization employs management practices for water quality protection.  | Qualitative                | Yes/No                         | <br>Water |  |    |
| Level of Water Stress                           | Level of baseline water stress on land directly or indirectly managed by the organization as of the end of the reporting period.                     | Qualitative                | Selection                      |   |   |   |
| Water Withdrawn                                 | Volume of all water drawn from surface water, groundwater, seawater, or a third party for any use by the organization during the reporting period.   | Quantitative               | Cubic Meters (m <sup>3</sup> ) |   |   |   |
| Water Type                                      | Describes the type of water withdrawn, consumed, or discharged as a result of investments made by the organization during the reporting period.      | Qualitative                | Selection                      |   |   |   |
| Target Area Ecoregion                           | Describes the ecoregions the organization seeks to benefit as of the end of the reporting period.  | Qualitative                | Selection                      | Cross - Category  | Cross-Category  |  |
| Total Assets                                    | Value, at the end of the reporting period, of all of the organization's assets.  | Quantitative               | AUM: USDm                      |   |   |   |
| Environmental Impact Objectives                 | Describes the environmental impact objectives pursued by the organization.   | Qualitative                | Selection                      |   |   |   |
| Climate Resilience Strategy                     | Indicates whether the organization implements a strategy to address the effects of climate change on the organization's operations.                  | Qualitative                | Yes/No                         |   |   |   |
| Product/Service Certifications                  | Describes third-party certifications for product /services sold by the organization that are valid as of the end of the reporting period.            | Qualitative                | Description                    |   |   |   |
| Social and Environmental Targets                | Describes the quantifiable social and environmental targets set by the organization.   | Qualitative / Quantitative | Selection                      |   |   |   |
| Social and Environmental Performance Reporting  | Indicates whether the organization reports its social and environmental performance to relevant stakeholders.  | Quantitative               | Yes/No                         |   |   |   |
| Jobs in Directly Supported/Financed Enterprises | Number of full-time equivalent employees working for enterprises financed or supported by the organization as of the end of the reporting period.    | Quantitative               | Full-time equivalent           |   |   |   |
| Community Engagement                            | Indicates whether the organization implement a strategy to manage its interactions with local communities affected by its operations.                | Qualitative                | Description                    |   |   |   |



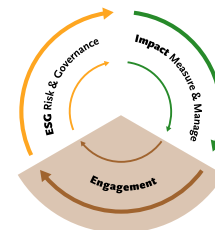
# Aligning Impact Frameworks

The table below demonstrates our key impact areas based on the GIIN IRIS+ Impact Themes (horizontal axis) and the SDGs (vertical axis). Impact outcomes have been classified as either “major”, where we have a direct positive influence, or “contributing”, where our strategies still have a positive but a more indirect impact.

| GIIN IRIS+ Impact Categories / SDGs    | ZERO HUNGER  |              | GOOD HEALTH AND WELL-BEING |   | CLEAN WATER AND SANITATION |    | DECENT WORK AND ECONOMIC GROWTH |              | DECENT WORK AND ECONOMIC GROWTH |       | RESPONSIBLE CONSUMPTION AND PRODUCTION |       | CLIMATE ACTION |       | LIFE ON LAND |       |
|--|--------------|--------------|----------------------------|---|----------------------------|----|---------------------------------|--------------|---------------------------------|-------|--|-------|----------------|-------|--------------|-------|
|  | 2            | 3            | 6                          | 8 | 9                          | 12 | 13                              | 15           |                                 |       |  |       |                |       |              |       |
| Sustainable Agriculture                | Major        |              |                            |   |                            |    |                                 |              |                                 |       |  |       |                |       |              |       |
| Food Security                          | Contributing |              |                            |   |                            |    |                                 |              |                                 |       | Contributing                           |       |                |       |              |       |
| Clean Air                              |              |              |                            |   |                            |    | Contributing                    | Contributing |                                 |       |  |       |                |       |              |       |
| Biodiversity & Ecosystems Conservation | Contributing |              | Contributing               |   |                            |    |                                 |              |                                 |       |  |       |                |       |              | Major |
| Climate Mitigation                     |              |              |                            |   |                            |    |                                 |              | Contributing                    |       |  |       | Major          |       |              |       |
| Climate Resilience and Adaptation      |              |              |                            |   |                            |    |                                 |              | Contributing                    |       |  |       | Major          |       |              |       |
| Employment                             |              |              |                            |   |                            |    | Contributing                    |              |                                 |       |  |       |                |       |              |       |
| Clean Energy                           |              |              |                            |   |                            |    | Contributing                    |              |                                 |       |  |       |                |       |              |       |
| Energy Efficiency                      |              |              |                            |   |                            |    |                                 |              | Contributing                    |       |  |       |                |       |              |       |
| Nutrition                              |              | Major        |                            |   |                            |    |                                 |              |                                 |       |  |       |                |       |              |       |
| Natural Resources Conservation         | Contributing |              |                            |   |                            |    |                                 |              |                                 |       |  |       |                |       |              |       |
| Sustainable Land Management            | Major        |              | Major                      |   |                            |    |                                 |              | Contributing                    | Major | Major                                  | Major | Major          | Major | Major        | Major |
| Sustainable Forestry                   |              |              | Contributing               |   |                            |    |                                 |              | Contributing                    |       |  | Major |                | Major | Major        | Major |
| Pollution Prevention                   |              | Contributing | Contributing               |   |                            |    |                                 |              |                                 |       | Contributing                           |       |                |       |              |       |
| Waste Management                       |              |              |                            |   |                            |    | Contributing                    | Contributing | Major                           |       |  |       |                |       |              |       |
| Sustainable Water Resources Management |              |              | Major                      |   |                            |    |                                 |              | Contributing                    | Major |  |       |                |       |              |       |



# Engagement



## Industry Initiatives

SLM Partners participates in industry initiatives that set standards, develop knowledge and build toolkits around impact investing in real assets. SLM is a signatory of the UN PRI, and of the Finance for Biodiversity Pledge. In 2021, SLM also joined the Natural Capital Investment Alliance. Over the course of 2022, it will also participate in the TFND – Taskforce for Nature Disclosure – forum which has published their first draft report this year.



## Research Developments

SLM Partners supports research projects on its properties – predominantly around carbon and biodiversity measurements. For example, we joined the Ecosystem Services Marketplace Consortium which is piloting a carbon scheme on our organic farms in the US Midwest. More information can be found in the strategy-sections of the report.



## Local rural communities

We engage with local rural communities and provide environmental and social benefits on and around the land managed through our strategies. Environmentally, our investments support biodiversity and create forests and farms that enhance natural capital. Socially, our farms provide chemical-free and nutritiously-dense foods. Our teams and local operating partners also participate in training sessions and conferences through which they raise awareness of, and ultimately help scale, regenerative practices across larger communities of farmers and foresters.

## What is the NCIA?

The Natural Capital Investment Alliance (the NCIA) has been formed in recognition of the need to mobilise investment in Nature-based economic opportunities. The NCIA was created by the HRH The Prince of Wales through his Sustainable Markets Initiatives. In 2021, NCIA was announced as an important and aligned theme to the Terra Carta.

## The initiative is underpinned by the following goals:

- To serve as a central hub for global corporations and financial institutions seeking to scale-up their investments into Natural Capital, in support of biodiversity restoration, including through high integrity carbon offsets.
- To share investment knowledge and expertise on investing in Natural Capital, underpinned by strong principles.
- To showcase and demonstrate scalability of appropriate investment vehicles and the multiple opportunities across asset classes.

**“Nature is, in fact, the lifeblood of our financial markets and, as such, we must rapidly realign our own economy to mimic nature's economy and work in harmony with it.”**

- HIS ROYAL HIGHNESS THE PRINCE OF WALES

### Soils



#### The Challenge

Land degradation is one of the most pressing, and lesser known, risks that humanity faces. Soils underpin the biogeochemical processes required to sustain the necessary expansion of food, timber and fibre production for a growing population, as well as providing ecosystem services, such as carbon sequestration, nutrient supply and water regulation, that are necessary for life on earth<sup>1</sup>. Ancient civilisations evolved, and subsequently failed, by exploiting soils for food and energy until reaching a breaking point<sup>2</sup>.

According to the UN Food and Agriculture Organisation (FAO) most of the world's soil resources are currently in fair, poor or very poor condition with 33% of land being considered moderately to highly degraded<sup>3</sup>. This is caused by destructive land management practices in arable, grazing and forestry systems, which results in erosion, compaction, acidification, salinisation or loss of soil microbiology, and a rapid decline in soil health.

#### The Solution

The good news is that this process can be mitigated, and in many cases reversed, through the adoption of regenerative and ecological land management practices<sup>4</sup>. Integrating a number of context-specific regenerative crop and pasture management practices can help soils sequester atmospheric carbon and turn it into soil organic carbon (SOC), which is fundamental to sustain soil health and soil fertility<sup>5</sup>. The benefits of increased SOC range from improving soil structure and aeration<sup>6</sup> and enhancing water cycles<sup>7</sup>, to restoring microbial functions that support agricultural and other terrestrial life systems.

For farmers and foresters, the practical benefits of improving soil health are also clear. Healthy soils have improved nutrient cycles<sup>8</sup>, lower compaction<sup>6</sup> and abate soil-borne diseases<sup>9</sup>, allowing for the reduction of external fertilisers and chemical inputs. Healthy soils can also mitigate the impact

of droughts and floods because of improved water infiltration and water holding capacity<sup>7</sup>, leading to higher yields<sup>10</sup> and more stable production. Ultimately, healthy soils allow for a substantial improvement in resource efficiency<sup>6</sup> while sustaining or improving agricultural and forestry output.

#### Our Impact

In Australia, SLM Partners has introduced holistic planned grazing across its properties with the aim of maintaining year-round ground cover, breaking soil capping, and allowing grasses to fully recover after grazing. These practices, in conjunction with improved manure distribution, help the natural re-establishment of deep-rooted perennial grasses, legumes and forbs (i.e. herbaceous flowering plants) that sustain soil microbiology and soil fertility.

In Ireland, we are transitioning forest properties towards CCF management and avoiding the clear-fell events that can cause soil compaction and erosion. Instead, we practice selective harvesting and confine machines to established roads and racks, so preserving forest soils and habitat. Further, the promotion of a mixture of broadleaves and conifers will reduce the acidification associated with conifer monocultures and increase biodiversity below ground through critical fungi associations in tree roots.

In the US, we are introducing organic cropping systems that adopt a more diverse and multifunctional rotation, integrating cover crops and using biological fertility such as manure and compost. These practices, along with the judicious use of tillage to control weeds and the removal of chemical inputs that kill soil microbiology, promotes soil health, minimises erosion and gradually increases levels of soil organic matter.

## Biodiversity



### The Challenge

Our planet depends on biodiversity to support critical biological processes, underpin ecological functions, drive environmental resilience and ultimately sustain life. Yet, the world is facing a dangerous and accelerating loss of biodiversity as natural habitats are displaced to make way for agriculture<sup>11</sup>, commercial forestry, and urbanisation. The global rate of species extinction is at least tens of times, and possibly hundreds of times, higher than the average rate over the past 10 million years<sup>12</sup>. It is estimated that the population sizes of mammals, birds, fish, amphibians and reptiles has declined 68% on average since 1970<sup>13</sup>.

The production of food has been the primary cause of biodiversity loss globally in the last 50 years<sup>12</sup>. This is mostly driven by the conversion of natural habitat to agricultural production, the intensification of agricultural systems, and the proliferation of single-species forest plantations. The heavy reliance on synthetic fertilisers and pesticides undermines the biodiversity at the farm and forest level and can lead to nutrient and chemical runoff into waterways and ultimately into oceans<sup>14</sup>. This negatively impacts wildlife (i.e. mammals, birds and reptiles), insects, pollinators and aquatic life but also vital macro and microorganisms that live below the ground.

### The Solution

To halt, and potentially reverse, biodiversity loss, a rehaul of land use is required<sup>11</sup>. This means not just protecting natural habitats but promoting biodiversity-friendly practices on agricultural and forest land as well. Of the 104 million km<sup>2</sup> of habitable land, 50% is devoted to agriculture, 37% to forest, 11% to shrub and grassland, and only 1% to urban and freshwater, each<sup>15</sup>. As such, promoting the restoration of biodiversity on agricultural land and managed forest sites is of the utmost importance.

This shift to nature-based and ecological management can take many forms, depending on regional contexts. It can involve the reduction or removal of chemical inputs (e.g. organic farming), a transition from monocultures to longer and diverse crop rotations or polycultures, the adoption of holistic planned grazing, the promotion of natural under-

story forest regeneration, and the inclusion of more resource efficient practices for nutrient management (e.g. composting). The benefits deriving from these practices range from reduced soil erosion and nutrient runoff<sup>6</sup>, reduced pest and disease pressure on crops<sup>17</sup>, large increases in the presence of macro and microorganisms on farms<sup>18</sup>, greater wildlife and beneficial fungi in forests<sup>19</sup>, enhanced soil microbial activity and the maintenance of diverse perennial grasses, legumes and forbs in natural grasslands<sup>20</sup>.

### Our Impact

In Australia, our adoption of holistic planned grazing in natural grasslands has promoted a shift from a few annual species to a diverse mix of perennial grasses, legumes and forbs. These species have deeper root systems, are more drought resistant, more productive and enhance the nutrient cycling critical for soil microbiology. Our systems are also chemical-free, which increase the presence of dung beetles and other beneficial insects.

In our forest properties in Ireland, the transition of conifer monocultures to CCF management allows more natural, diverse forests to evolve. This management approach greatly reduces habitat disturbance and introduces structural and age diversity contributing to enhanced biodiversity in the forest. The higher proportion of deadwood and biomass cycling also enhances the soil microbiology, beneficial fungal-tree interactions, and the creation of healthy insect and bird habitat. Given the forests will not be clear-felled, these benefits will be sustained in the environment permanently.

In the USA, our farms are either organic certified, or undergoing an organic transition, and therefore do not use pesticides, herbicides and synthetic fertilisers that are inherently damaging for insects, bees and soil microbiology. The introduction of diverse crop rotations and cover crops favours pollinator activity and kick-starts soil biological activity, leading to increases in beneficial bacteria, protozoa, fungi, earthworms and small arthropods. Organic farms also promote more bird diversity.



## Water

### The Challenge

Water is a critical input for all agricultural systems. The United Nation Food and Agriculture Organisation (UN FAO) estimates that agriculture irrigation accounts for 70% of water use worldwide. In some climatic contexts, irrigation is the only viable method to produce food. Left unchecked, and supported by poorly regulated water markets, water scarcity has become a real global issue with 3.2 billion people living in agricultural areas with high to very high-water shortages or scarcity<sup>21</sup>. This trend will be further exacerbated by climate change, with rainfall patterns becoming less reliable and extreme events more common<sup>22</sup>.

Beyond the challenge of water scarcity, water quality has also become a broader societal issue. As mentioned in the biodiversity section, soil erosion and nutrient runoff has led to the eutrophication of water bodies, loss of freshwater biodiversity and creation of Coastal dead zones. Yet, the excess loading of fertilisers and chemicals into river and groundwater is also posing risks to drinking water quality even with conventional water treatment<sup>22</sup>. Many of these pollutants are also bioaccumulated through the food web and are toxic to living organisms, including humans and wildlife<sup>23</sup>.

### The Solution

Effective water management and water conservation practices are the cornerstone of regenerative and nature-based farming systems. The same practices that promote soil health such as maintaining year-round ground cover, minimal soil disturbance and proper crop rotation also help to regulate the flow of water on the landscape with improved water infiltration and retention in the soil profile, thus reducing the impact of droughts<sup>24</sup>. Enhancing water cycles is of particular importance to dryland farming and forestry solely dependent of

rainfall. This also leads to greater water quality by reducing nutrient run-off and sedimentation of waterways.

For irrigated systems, the adoption of these soil and water conservation practices is also paramount and they remain the most effective strategy to address nutrient management, water quality and irrigation efficiency challenges<sup>25</sup>.

### Our Impact

In Australia, our cattle stations are located in a semi-arid and brittle environment. The focus of our land management is to improve vegetative cover and soil organic matter levels to restore efficient water cycles and promote greater water infiltration and retention in the soil. Our extensive water infrastructure development, with multiple tanks and troughs, also ensures livestock have access to quality water and avoids excessive water loss via evaporation and leakage from open reservoirs and dams.

In Ireland, our forest sites benefit from a mild climate and reliable rainfall. Our management approach improves water quality by moving away from clear-felling, which is associated with the release of sediments and nutrients into streams, and a gradual acidification of water bodies. In many cases, these freshwater bodies harbour rare species such as the freshwater pearl mussel and salmonids.

In the USA, the arable farms we manage are 100% rainfed. The adoption of sound organic fertility plans, the elimination of synthetic fertilisers and the introduction of cover crops minimises the run-off of nitrates and phosphates into streams – a major issue in the US Midwest.

## Climate



### The Challenge

The way we use land and grow food are major contributing factors to climate change, the greatest environmental challenge of our time. A new report published by Nature Food estimates that food systems accounted for 34% of global greenhouse gas (GHG) emissions in 2015<sup>26</sup>. The world's soils store vast amounts of carbon: between 1,500 and 2,400 Petagrams (Pg) of organic Carbon (C)<sup>27</sup>. This equates to three to four times the amount of carbon in vegetation and twice to three times the amount in the atmosphere. As soil degradation advances across the globe, it is estimated that around 1.32 PgC of soil organic carbon is released into the atmosphere annually<sup>28</sup>, representing 11.4% of annual anthropogenic emissions in 2019<sup>29</sup>.

Aside from being a key contributor to climate change, agricultural and forestry systems are vulnerable to changes in climatic patterns as extreme weather events such as droughts and floods have negative impacts on crop and forest productivity<sup>30</sup>.

### The Solution

Through changed land management practices, soils can transition from being a net carbon emitter to become a major carbon sink by sequestering atmospheric carbon (CO<sub>2</sub>) via photosynthesis and locking this carbon in more stable forms<sup>31</sup>. There is increasing consensus around the role of natural climate solutions as one of the most practical and cost-effective climate change mitigation strategies<sup>32</sup>. The conservation and restoration of natural habitats, combined with improved land management actions across global forests, wetlands, grasslands and agricultural lands, can provide up to 37% of the emission reductions needed by 2030 to keep global temperature increases under 2°C<sup>32</sup>.

On farmland, these improved land management actions include reduced tillage<sup>33</sup>, diverse crop rotations<sup>31</sup>, cover cropping<sup>34</sup>, sound grazing management<sup>35</sup>, and compost and manure application<sup>31</sup>. Planting trees on marginal agricultural land sequesters carbon in above and below ground biomass. Changes to forest management can also increase carbon stocks in soils and standing trees, while increasing the production of longer-lived carbon products, such as high-quality sawlogs.

Lastly, these same practices can strengthen resilience to the negative impacts of climate change and offer a path towards climate adaptation. For example, increased soil carbon is the key driver for enhancing soil health, improving water cycles and promoting microbial diversity. More biodiverse farms and forests can better withstand extreme weather.

### Our Impact

In Australia, we have designated 158,412 hectares of land to a native woodland regeneration project that will sequester 4,508,731 tonnes of CO<sub>2</sub>e – and generate the same number of verified Australian Carbon Credit Units – over a 25-year period. Our beef cattle operations employ holistic planned grazing to improve soil health and ground cover, which increase the ability of soils to sequester carbon from the atmosphere. This controlled grazing system also allows us to adjust stocking rates according to seasonal conditions and to avoid overgrazing – which was an important tool during a long-running drought that hit our region from 2013 to 2020.

In Ireland, we are investing in young, fast-growing forests that have very high rates of carbon sequestration, both above ground in trees and below ground in roots and soils. By transforming sites to continuous cover forestry, and avoiding clear-felling, we will increase the volume of standing carbon in trees and avoid the loss of carbon from soils and residues that would occur after clear-felling. Our silvicultural approach also focuses on harvesting higher quality sawlogs that go into long-lived products such as construction timber, which store carbon for decades.

In the USA, the transition to organic farming will eliminate the use of synthetic nitrogen fertiliser, a highly energy intensive product that represents a large part of emissions from conventional arable farming. The use of nitrogen-fixing cover crops, manure and compost in organic farming can also minimise the release of nitrous oxide (N<sub>2</sub>O) from soils, a potent greenhouse gas. Lastly, healthy soils under organic management are proven to sequester carbon, offsetting other farm emissions.

## Society



### The Challenge

Rural areas across the developed world have suffered from loss of livelihoods and depopulation, as economic growth has been focused on urban areas. Those who decide to stay on the land are now older and often struggle to find successors. According to the Australian Bureau of Statistics (ABS), the average farmer in Australia is 56 years old. Similar patterns can be observed in most of the developed world. Beyond the age problem, those who are young and want to start a journey into regenerative farming are held back by knowledge and funding gaps.

Conventional agricultural and forestry systems, while efficient and highly productive, can create negative externalities for society<sup>36</sup>. In the drive for yield, the nutritional value of vegetables, grains, meat and dairy products, represented by key minerals, vitamins and proteins, has declined by up to 40% over the last 50 to 70 years<sup>37</sup>. Suboptimal diets are leading risk factors for poor health globally and responsible for up to 45% of all cardiometabolic disease deaths in the US. The overuse of pesticides leads to an increased level of chemical residues in many foods, with proven negative consequences for human health<sup>39</sup>. In commercial forestry sites adopting monocultures and clear-felling, the amenity value of forests is low and is often unpopular with local communities.

### The Solution

At the most basic level, the pursuit of regenerative farming and sustainable forestry can create new economic opportunities for farmers, foresters and others working in these sectors, helping to revitalise rural communities. Public and private sector initiatives can help bridge the knowledge and financial gap required to support rural operators, in transition to more ecological production systems. This can come in the form of targeted education, improved access to land and greater availability of suitable financial products such as longer-term and flexible loans attached to environmental outcomes.

Growing healthy, nutritional, and chemical-free food provides clear health benefits for consumers and can indirectly take pressure off healthcare systems. Farms and forests managed under regen-

erative and ecological principles can also promote a healthier environment for local communities around them and create positive externalities including greater amenity values.

### Our Impact

In Australia, our cattle operations provide employment opportunities in remote rural areas where jobs are few. We provide extensive training on holistic planned grazing and low-stress livestock handling to farm managers and employees, building a cadre of operators with new skills, some of whom have gone on to manage other properties in this way. We produce grass-fed beef on natural grasslands without the use of pesticides or fertilisers.

In Ireland, our fund acts as a demonstration project for the commercial viability of CCF. We are helping to train new foresters and harvesting contractors in this sustainable forestry management and have the support of a technical assistance facility from the European Investment Bank and the EU LIFE Programme, including further research on the effectiveness of continuous cover forestry practices in Irish conditions. By transitioning away from monocultures and clear-felling, we will develop forests that have greater aesthetic and amenity value for local communities, helping to address some of the issues that have caused public opposition to forestry in recent years. Our approach also ensures that forest management optimises the multiple uses of forests, including amenity and landscape values, local timber production, climate change regulation, and the protection of soil, water and biodiversity resources.

In USA, we have partnered with several mid-sized organic farmers to expand and build farm businesses. Access to capital and the absence of long-term leases are major hurdles for farmers looking to extend organic operations. We fill that gap by purchasing land and setting flexible lease agreements that adequately reflect the risk and rewards. Through our investments, we are increasing the supply of domestically-grown, pesticide-free, organic certified food for consumers.







## Investment Strategy

The SLM Australia Livestock Fund acquires and operates grazing land in Australia with a focus on grass-fed beef cattle production. It launched in 2012 with AU\$75 million and managed a total of around 450,000 hectares when fully invested. Today, following the sale of 2 properties, the fund currently manages 284,500 hectares.

Our strategy is to implement a management process known as ‘holistic planned grazing’. This involves dividing land into smaller paddocks, putting cattle in large herds, and moving them frequently across the property. It provides a decision-making framework that allows managers to vary the size of herds and the frequency of herd movements according to seasonal conditions, mimicking the behaviour of large herds of herbivores in natural environments.

With the right management, raising cattle on native grasslands offers the lowest-cost method of beef production. These systems make the most of what nature provides for free – sunlight, rainfall, soils and the photosynthetic power of plants – rather than relying on external feed purchases such as grains and hay. There is also a growing scientific evidence of the health benefits of grass-fed meat, which is leading to increased consumer demand<sup>40</sup>.

Australia has many advantages for low-cost, grass-fed beef production: disease-free herds, year-round grazing, reliable infrastructure, large properties, competitive land prices, and good access to markets. It is well-positioned to serve the rapid growth in demand for red meat from fast-growing Asian economies.



## Impact Thesis

Beef cattle production has attracted a bad reputation for its methane emissions, but the problems associated with raising cattle for beef production go well beyond methane. From industrial cattle feedlots to poorly managed grassland, the negative impacts vary from deteriorating soil health, chronic soil erosion and carbon loss, broken water cycles and biodiversity loss, with systems heavily reliant on grains and monocultures. These systems lead to degradation of natural ecosystems, present hidden financial and environmental risks, and ultimately externalise these costs and risks to the wider society.

The native grasslands managed by SLM are in brittle and semi-arid environments unfit for cropping or other agricultural uses. If left ungrazed, these areas tend to degenerate and become hot spots for wildfires. If poorly grazed,

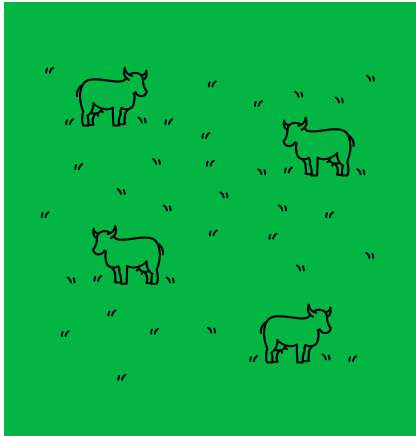
land health conditions can also degrade quickly leading to erosion and loss of carbon.

The adoption of holistic planned grazing has the potential to mitigate these issues while also creating a wealth of positive impacts on the land. The frequent movement of larger herds leads to intense, beneficial impacts on grasslands through the breaking up of soil capping, more even grazing of forages, and improved manure distribution. Long rest periods allow for full grass recovery and improved ground cover, leading to an increase in plant diversity, particularly of perennial grasses, legumes and forbs. These are key catalysts to improve carbon, mineral, water and energy cycles. Academic research indicates that well-managed grasslands can store significant amounts of additional carbon, enough to offset most or all of the methane emissions associated with cattle<sup>41,42</sup>.



### Continuous Grazing

Constant access to entire pasture, leading to overgrazing

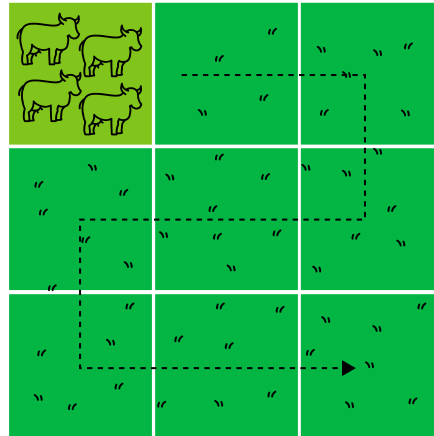


Adapted from Diana Rodgers (Sacredcow.info)

- × Less wildlife habitat
- × More exposed soil
- × Reduce forage diversity
- × Increased rainfall runoff
- × Less healthy animals
- × More parasites

### Holistic Planned Grazing

Access to smaller paddocks, adaptive based on changing conditions



- ✓ Better wildlife habitat
- ✓ More microbial diversity
- ✓ Increased rainfall absorption
- ✓ More carbon sequestration
- ✓ Healthier animals
- ✓ Fewer parasites









The area of Australia in which we operate experienced a severe drought from 2013 to 2020, one of the worst droughts observed since records began in 1879. Average rainfall across our properties fell below 50% of the historic norm on a number of occasions. The properties received average rainfall for 3 quarters in 2016-17 but this was followed by an even more severe period of drought. This significantly curtailed our ability to carry animals and led to partial destocking at times. Our focus was on stewarding the land through this drought and maintaining as much vegetative cover and soil health as possible. Rainfall returned to a normal level towards the end of 2020, leading to abundant pasture growth. We were able to restock the properties and take advantage of the upturn in weather conditions and a strong cattle market.

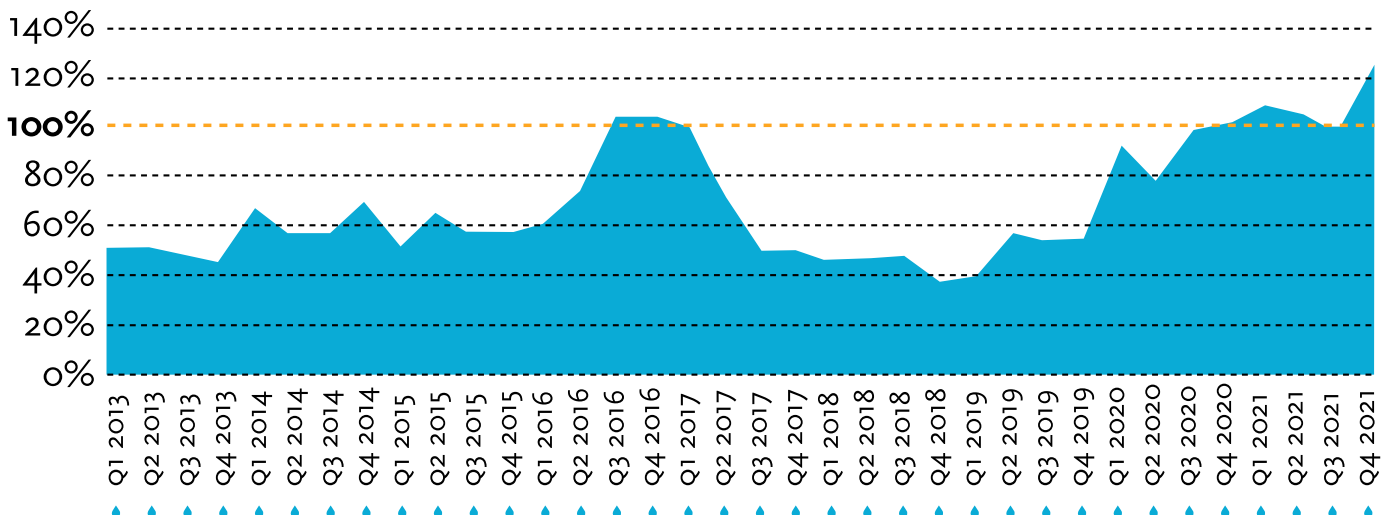
### Progress so far

The fund has acquired and now manages large scale operations in southern Queensland and northern New South Wales, divided into 5 management units. All of these management units – the core production properties covering 284,500 hectares – have been developed for holistic planned grazing. We invested capital in building 168 new water points to provide drinking water for larger cattle herds. We constructed 4,121 kilometres of fencing across these 5 properties, mostly single-wire electric fencing, creating 1,183 new paddocks. The paddocks average less than 200 hectares, which allows for much better control of grazing pressure.

### Infrastructure development on SLM properties

|                        |                |   |
|------------------------|----------------|---|
| Water points built     | 168            |  |
| Water piping laid (km) | 539            |  |
| Fencing erected (km)   | 4,121          |  |
| New paddocks created   | 1,183          |  |
| <b>Total hectares</b>  | <b>284,500</b> |   |

### Average rainfall on SLM properties (12-month rolling total vs historical average)





# Impact measurement and results

## Reporting frameworks

We have presented below the details of the 32 IRIS+ indicators we currently use to assess the impact of our strategies. These are matched to their respective impact themes and categories and aligned to relevant SDGs.

| GIIN IRIS+ Metrics  | GIIN IRIS+ Metrics - Results  | GIIN IRIS+ Primary Impact Categories | GIIN IRIS+ Other Impact Categories  | SDGs |
|---|---|--------------------------------------|---|------|
| Crop Type   | Natural Grassland - Rangeland   | <p>Agriculture</p>                   | <p>Biodiversity &amp; Ecosystems / Land / Employment / Health</p>                 |      |
| Livestock/Fish Type   | Grassfed Beef Cattle  |                                      |   |      |
| Land Directly Controlled: Total                             | 284,500 ha  |                                      |   |      |
| Land Directly Controlled: Cultivated                        | 0 ha  |                                      |   |      |
| Land Directly Controlled: Sustainably Managed               | 284,500 ha  |                                      |   |      |
| Land Directly Controlled: Treated with Pesticides           | 0 ha  |                                      |   |      |
| Biodiversity Assessment                                     | Yes - Vegetation Surveys carried out on properties by 3rd party (Agricultural Information and Monitoring) every 2-3 years; Assessments  | <p>Biodiversity &amp; Ecosystems</p> | <p>Biodiversity &amp; Ecosystems</p>  |      |
| Greenhouse Gas Emissions Strategy                           | Yes - Holistic Planned Grazing and regeneration of native woodland  | <p>Climate</p>                       | <p>Air / Energy / Land / Pollution</p>  |      |
| Greenhouse Gas Emissions Avoided Due to Carbon Offsets Sold | 1,634,701 Australian Carbon Credit Units (ACCUs) issued and sold to the Australian Government's Clean Energy Regulator for projects on Fund properties from 2016 to 2021. (257,724 ACCUs in 2021 alone). Each ACCU issued represents one tonne of carbon dioxide equivalent (tCO <sub>2</sub> e) stored or avoided. |                                      |   |      |
| Greenhouse Gas Emissions Sequestered                        | 1,634,701 tonnes of CO <sub>2</sub> e between 2016 to 2021 (as represented by issued ACCUs). 257,724 in 2021 alone.   |                                      |   |      |
| Greenhouse Gas Emissions Mitigation Types                   | - Greenhouse gas emissions avoided due to carbon offsets sold (i.e. ERF project)<br>- Greenhouse gas emissions sequestered from land use, land use change, and forestry (i.e. Mulga country regeneration)   |                                      |   |      |
| Forest Management Plan                                      | Not applicable  |                                      |   |      |
| Type of Land Area   | Grazing/Rangeland   | <p>Land</p>                          | <p>Agriculture / Biodiversity &amp; Ecosystems / Employment / Climate / Water</p> |      |
| Ecosystem Services Provided                                 | Provisioning Values/Services: Food, Regulating Values/Services: Regulation of climate - Maintenance of soil quality - Pollination, Supporting Values/Services: Habitat - Nutrient cycling - Primary production - Water cycling, Cultural Values/Services: Educational and inspirational values                      |                                      |   |      |
| Area of Trees Planted: Native Species                       | 0 ha  |                                      |   |      |
| Area of Trees Planted: Total                                | 0 ha  |                                      |   |      |
| Ecological Restoration Management Area                      | 99,077 ha managed for regeneration of native woodland as part of projects approved by Australian Government's Clean Energy Regulator under the Carbon Farming Initiative  |                                      |   |      |
| Soil Conservation Practices                                 | Application of regionally appropriate practices to minimize disturbance and physical damage of soil, cropland and pasturelands  |                                      |   |      |
| Soil Health Practices                                       | Application of regionally appropriate soil health improvement practices (e.g. low tillage systems, cover cropping, addition of soil amendments, crop residue usage) to maintain or enhance soil fertility and physical and biological characteristics of soil   |                                      |   |      |



# Impact measurement and results

## Reporting frameworks

We have presented below the details of the 32 IRIS+ indicators we currently use to assess the impact of our strategies. These are matched to their respective impact themes and categories and aligned to relevant SDGs.

| GIIN IRIS+ Metrics                              | GIIN IRIS+ Metrics - Results   | GIIN IRIS+ Primary Impact Categories  | GIIN IRIS+ Other Impact Categories   | SDGs  |
|---|--|---|--|---|
| Water Quality Practices                         | Holistic Planned Grazing improves vegetative ground cover, increases soil organic matter, improves water cycling and reduces water run-off   | <br>Water |  Agriculture / Biodiversity & Ecosystems / Climate / Land / Waste |    |
| Level of Water Stress                           | Arid and low water use   |   |  |   |
| Water Withdrawn                                 | 187ML (estimate)   |   |  |   |
| Water Type                                      | Groundwater / Rainwater  |   |  |   |
| Target Area Ecoregion                           | Temperate grasslands, savannas and shrublands  | Cross - Category  | Cross - Category   |  |
| Social and Environmental Targets                | 1. Develop properties with fencing and water systems for Holistic Planned Grazing (4 of 5 properties developed). 2. Limit stocking rate to carrying capacity of land, adjusted for rainfall and seasonal conditions (achieved across all properties). 3. Improve vegetation cover and diversity of grasslands (not achieved yet because of persistent drought). 4. Increase carbon sequestration and generate carbon credits for sale wherever possible (1,634,701 ACCUs issued so far). 5. Provide well-paid and satisfying jobs for local farm workers (salaries meet or exceed industry benchmarks). 6. Provide training and experience in Holistic Planned Grazing to farm managers (achieved) |   |  |   |
| Social and Environmental Performance Reporting  | Environmental reporting - Yes  |   |  |   |
| Jobs in Directly Supported/Financed Enterprises | 13 FTE   |   |  |   |
| Community Engagement Strategy                   | Yes  |   |  |   |
| Total Assets                                    | Assets under management (AUM): US\$60m   |   |  |   |
| Climate Resilience Strategy                     | Yes  |   |  |   |
| Environmental Impact Objectives                 | Sustainable land use (Holistic Planned Grazing and Mulga regeneration)   |   |  |   |
| Product/Service Certifications                  | No   |   |  |   |



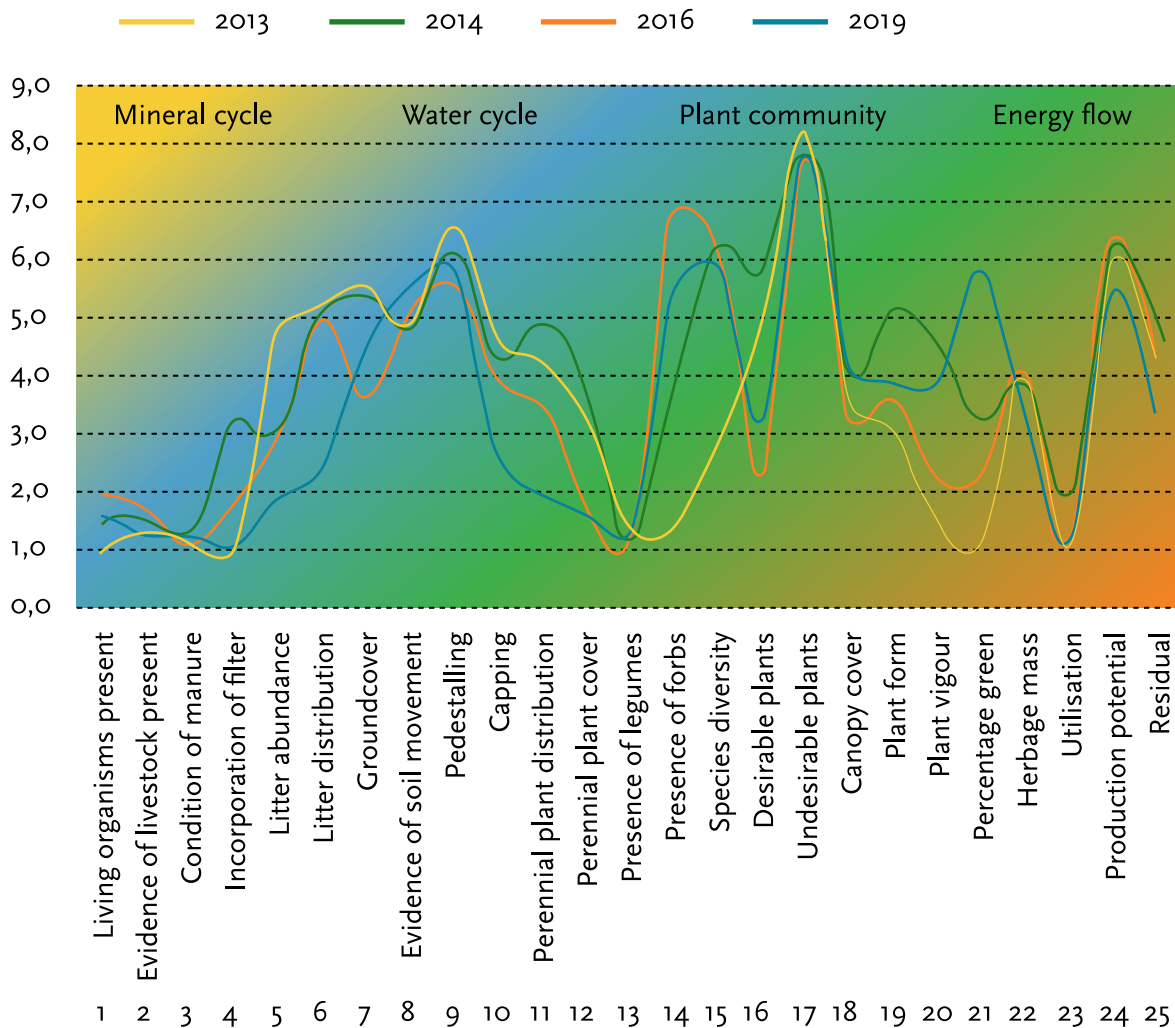
## Property-Level assessments: Biodiversity

Since 2013 we have engaged a third-party expert, Agricultural Information and Monitoring Services, to carry out regular biodiversity assessments on our properties. These assessments are based on landscape health monitoring protocols covering 36 sites with 25 indicators each. They include key land health indicators related to mineral and water cycles, plant community dynamics and energy flows. Each indicator receives a score from 1 (low) to 10 (high).

Despite the introduction of holistic planned grazing, the impact of seven years of drought has undermined our capacity to regenerate the land as fast as

intended. The chronic deficit in rainfall over this period has halted many critical ecological processes on the land. Adjusting livestock numbers in accordance with these challenging seasonal conditions has allowed us to sustain landscape health and avoid further deterioration of the land. We believe that our sound and proactive land management approach is now paying off as seasonal conditions gradually returned to normal in 2020. The response of our grasslands to rainfall has been exceptional and we expect to see measurable improvements in land health conditions in the next assessment, which will be carried out in 2022.

The table below shows the aggregated indicator from all 36 monitoring sites for 2013, 2014, 2016 and 2019.





## Property-Level assessments: Carbon

The fund established 4 carbon projects on its properties under methodologies approved by the Australian Government’s Carbon Farming Initiative. The total carbon estimation area covered by these projects is 163,773 hectares.

Three of these projects, covering 158,412 hectares increase carbon sequestration through the “Human-Induced Regeneration of a Permanent Even-Aged Native Forest” methodology. We committed to manage the land in such a way that encourages native vegetation, especially native Mulga trees, to regenerate naturally into forest. This involves cessation of mechanical or chemical destruction of regrowing trees (a common historic practice in the area) and careful management of the timing and extent of grazing (which is consistent with our holistic planned grazing strategy). A smaller project, covering 5,361 hectares, applies an “Avoided Deforestation” methodology.

We partnered with an experienced Australian carbon project developer, Climate Friendly, to develop these projects. Climate Friendly carries out an independent verification of the progress of the project each year, using remote sensing (satellite imagery), site visits, reports from the property managers, and forest carbon models approved by the Australian regulator. The Australian Government’s Clean Energy Regulator issues Kyoto-compliant Australian Carbon Credit Units (ACCUs) to the fund on the

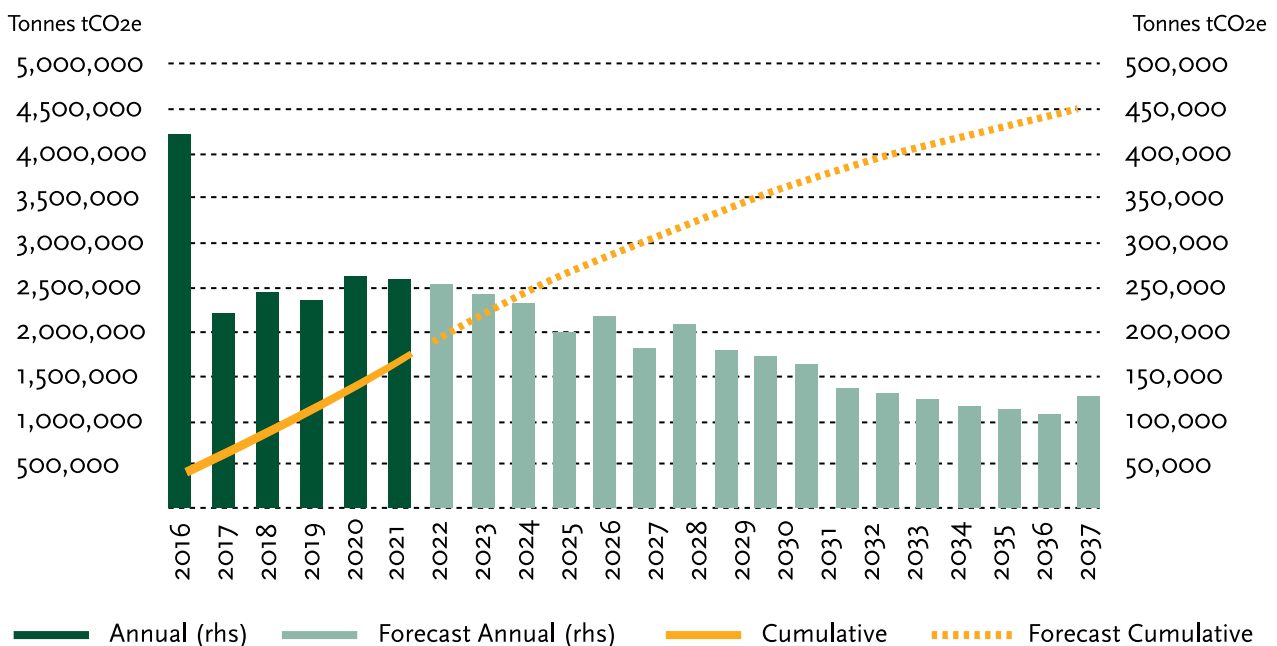
basis of these verified results. Each ACCU issued represents one tonne of carbon dioxide equivalent (tCO<sub>2e</sub>) stored or avoided.

The Australian Government has created an Emissions Reduction Fund, administered by the Clean Energy Regulator, to enter into contracts with farmers and landowners to buy carbon credits. We participated in reverse auctions and won contracts to sell credits to the Clean Energy Regulator over the first 10 years of each project. The projects last for 25 years and should continue to generate carbon credits beyond the initial 10-year contract. It may be possible to sell these later credits to private sector buyers seeking to offset their emissions. These projects generated 259,809 ACCUs in 2020, which is equivalent to the annual emissions of 56,130 passenger vehicles or the emissions avoided by 56 wind turbines. The total amount of carbon sequestered under these projects over 25 years is forecasted to be 4,508,731 ACCUs, a sum that equates to 10,438,665 barrels of oil consumed.

In 2021, we achieved an exit for the fund by selling the Colac aggregation, which had 2 large carbon projects in place. The results of this sale show the potential to transform land values through sustainable management and monetization of positive environmental impacts. Further details can be found in the Case Study below.

### Annual and Cumulative ACCCs Generated and Sold - Actual and Forecast

Includes Colac property that was sold in Q3 2021





## Case Study: Colac



Colac is an example of our ability to monetise the positive environmental impacts of our land management approach. Colac is an aggregation of 3 properties totalling more than 165,000 hectares that were acquired by the SLM Australia Livestock Fund at the end of 2013. It is located between Quilpie and Charleville in southwest Queensland. The land type consists mostly of hard mulga and dissected residuals, along with smaller areas of soft mulga, sandplains and alluvial plains. There are large areas of savannah-type open woodland, dominated by the mulga tree species. Traditionally, these were extensive grazing properties suitable for cattle or sheep.

The fund invested in improvements to water points, fencing and livestock handling facilities. But this property was primarily developed to store carbon. We worked with carbon project developer Climate Friendly to create projects under the “Human-Induced Regeneration of a Permanent Even-Aged Native Forest” methodology. In 2015 we won contracts to supply the government’s

Emissions Reduction Fund with carbon credits over an initial 10-year period. The projects are expected to deliver 2,736,229 tonnes of credits between 2016 and 2038. Colac has continued to function as a sustainable cattle operation. We partnered with a local cattle producer who raised a small herd of cattle on the property, using sustainable management that is consistent with the carbon project.

In September 2021, we achieved an exit by selling the property to a carbon-focused buyer. The figures involved show the potential of investing in natural capital when robust environmental markets are in place. The fund invested just over AU\$7 million in the property through acquisition and development. The fund earned more than AU\$5 million from the property since acquisition through carbon sales and livestock income. The property was sold for more than AU\$13 million, largely because of the value of the carbon projects then in place. Overall, this investment delivered a Gross IRR of 16.4% to the fund.







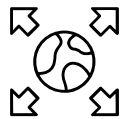
## Investment Strategy

The SLM Silva Fund is a €30 million sustainable Irish forestry fund established in 2018 with backing from the European Investment Bank and other European investors. SLM Partners entered into a partnership with an Irish forestry company, Purser Tarleton Russell Limited (PTR), which is responsible for evaluating acquisition opportunities and managing forest properties after acquisition.

The Fund acquires existing semi-mature forest plantations in Ireland and transitions them from a management regime based on clear-felling to

continuous cover forestry systems. Where possible, the Fund also establishes new forests with a diverse set of tree species on marginal agricultural land.

Because of its mild climate, Ireland has some of the best growth rates for trees in the world. The country has a well-developed timber processing industry, which exports to the UK and other parts of Europe, and a growing bioenergy market. As a commodity, timber is set to grow in value as the world shifts towards a bio-economy and timber products displace cement, steel and fossil fuels.



## Impact Thesis

Temperate conventional forestry in countries like Ireland is dominated by non-native, single-specie, even-aged stands that are managed in a clear-fell-replant system. Under this system, land is prepared and planted with trees, the plantation is thinned periodically, and all the remaining trees are then harvested on maturity, before the land is replanted for the next rotation. This silvicultural system is easy to plan and execute. But it exposes investors to certain risks: 1- Even-aged monocultures are more susceptible to pests, diseases and windthrow – risks that are likely to be exacerbated by climate change; 2- Clear-felling can cause negative environmental impacts such as soil damage, water run-off, reduced biodiversity, low amenity value and release of forest and soil carbon; 3- Tightening government regulations and certification standards are constraining the ability to apply this system, especially in environmentally sensitive areas.

Continuous cover forestry is a viable alternative. Under this system, forest cover and woodland conditions are maintained permanently. Trees are

felled individually or in small groups throughout the entire woodland area. The increment in growth is removed as ‘income’ every few years, preserving the ‘capital’ of the standing forest. High quality trees are allowed to grow larger. The system relies on natural regeneration to develop a mixed-age stand, and species diversity is encouraged and naturally emerges across the full productive area of the forest, rather than being compartmentalised in plots. The overall objective is to maximise the commercial benefits from woodland while letting natural processes do most of the work.

Forests managed under CCF have higher biodiversity and amenity value, and they can be more resilient to pests, diseases and windthrow, contributing to climate change adaptation. They store more carbon in standing trees and soils, avoid the release of carbon that occurs with a clear-felling event. This management approach also avoids the negative impacts on soil and water resources that can be caused by clear-felling<sup>43</sup>.



## Progress so far

By the end of 2021, the Fund had acquired 62 properties totalling 1,513 hectares. 61% of the area is currently being managed under CCF. The remaining area is unsuitable for CCF management at this stage of the rotation, because the forests are too old to make the necessary interventions without compromising stability and increasing the risk of wind damage. These areas will be managed sustainably to clearfell and then replanted with more diverse mixtures, with the goal of applying CCF management in the second rotation.

Across nine of our freehold properties at the end of 2021, we had a total of 42 hectares of unplanted land suitable for afforestation, some which is being leased for grazing and which we intend to plant once the afforestation grant approvals have been obtained. The majority of the forest properties are semi-mature

forests, over 20 years of age. Sitka spruce is the main tree species, making up more than three-quarters of the area in the current portfolio, but other species include Norway spruce, Lodgepole pine, Ash, Sycamore, Japanese larch, Oak, Douglas fir and Alder.

Across the portfolio, we have 180 hectares set aside for biodiversity. These areas are not part of the productive forest estate, but are largely unmanaged native scrub, native broadleaf woodland, old hedgerows, riparian areas, waterbodies and failed plantations on land that is regenerating with natural species, and peat bog. A number of the Fund properties also lie within a 10-15km radius of a Nature 2000 site. Natura 2000 is a Europe-wide network of core breeding and resting sites for rare and threatened species, and some rare natural habitat types.





# Impact measurement and results

## Reporting frameworks

We have presented below the details of the 32 IRIS+ indicators we currently use to assess the impact of our strategies. These are matched to their respective impact themes and categories and aligned to relevant SDGs.





| GIIN IRIS+ Metrics  | GIIN IRIS+ Metrics - Results  | GIIN IRIS+ Primary Impact Categories | GIIN IRIS+ Other Impact Categories  | SDGs |
|---|---|--------------------------------------|---|------|
| Crop (Forest) Type  | Stika Spruce, Norway Spruce, Lodgepole Pine, Japanese Larch Douglas Fir, Ash, Sycamore, Oak and Alder   | <p>Agriculture</p>                   | <p>Biodiversity &amp; Ecosystems / Land / Employment / Health</p>                 |      |
| Livestock/Fish Type   | N/A   |                                      |   |      |
| Land Directly Controlled: Total                             | 1,513 ha  |                                      |   |      |
| Land Directly Controlled: Cultivated                        | 1,492 ha  |                                      |   |      |
| Land Directly Controlled: Sustainably Managed               | 1,513 ha  |                                      |   |      |
| Land Directly Controlled: Treated with Pesticides           | 19 ha   |                                      |   |      |
| Biodiversity Assessment                                     | Yes - with input from the European Investment Bank, the fund agreed a set of forest biodiversity indicators that will be measured and reported regularly  | <p>Biodiversity &amp; Ecosystems</p> | <p>Biodiversity &amp; Ecosystems</p>  |      |
| Greenhouse Gas Emissions Strategy                           | Growth of semi-mature forests and transformation from clearfell management to Continuous Cover Forestry (CCF)   | <p>Climate</p>                       | <p>Air / Energy / Land / Pollution</p>  |      |
| Greenhouse Gas Emissions Avoided Due to Carbon Offsets Sold | 0   |                                      |   |      |
| Greenhouse Gas Emissions Sequestered                        | 32,471t CO <sub>2</sub> eq.   |                                      |   |      |
| Greenhouse Gas Emissions Mitigation Types                   | · Greenhouse gas emission reductions from land use, land use change, and forestry; · Greenhouse gas emissions sequestered from land use, land use change, and forestry  |                                      |   |      |
| Forest Management Plan                                      | Yes   |                                      |   |      |
| Type of Land Area   | Forest land and grass-land with areas of peatland   |                                      |   |      |
| Ecosystem Services Provided                                 | Provisioning Values/Services: Food - Freshwater<br>Regulating Values/Services: Regulation of climate - Regulation of water timing and flows - Erosion control - Disease mitigation - Maintenance of soil quality - Pest mitigation - Pollination<br>Supporting Values/Services: Habitat - Nutrient cycling - Primary production - Water cycling<br>Cultural Values/Services: Educational and inspirational values | <p>Land</p>                          | <p>Agriculture / Biodiversity &amp; Ecosystems / Employment / Climate / Water</p> |      |
| Area of Trees Planted: Native Species                       | 0 ha  |                                      |   |      |
| Area of Trees Planted: Total                                | 0 ha  |                                      |   |      |
| Ecological Restoration Management Area                      | 180 ha  |                                      |   |      |
| Soil Conservation Practices                                 | Application of CCF (avoidance of clearfell), to minimize disturbance and physical damage of soils in forests, promotion of understory regrowth, creation of buffer zones around bodies of water; Prevention of soil erosion, acidification, salinization and accumulation of other adverse compounds  |                                      |   |      |
| Soil Health Practices                                       | Same as Soil Conservation Practices   |                                      |   |      |



# Impact measurement and results

## Reporting frameworks

We have presented below the details of the 32 IRIS+ indicators we currently use to assess the impact of our strategies. These are matched to their respective impact themes and categories and aligned to relevant SDGs.

| GIIN IRIS+ Metrics                              | GIIN IRIS+ Metrics - Results  | GIIN IRIS+ Primary Impact Categories  | GIIN IRIS+ Other Impact Categories  | SDGs  |
|---|---|---|---|---|
| Water Quality Practices                         | The adoption of soil conservation and soil health practices aim to improve water quality by restricting erosion, soil and nutrient runoff into water bodies. The transition to more diverse forests under Continuous Cover Forestry will reduce eutrophication and acidification of waterways.  | <br>Water |  |    |
| Level of Water Stress                           | Low (<10%)  |   |   |   |
| Water Withdrawn                                 | N/A   |   |   |   |
| Water Type                                      | N/A   |   |   |   |
| Target Area Ecoregion Crop (Forest) Type        | Temperate forests: mixed and coniferous   | Cross - Category  | Cross - Category  |  |
| Total Assets                                    | Assets under management (AUM): US\$35m  |   |   |   |
| Environmental Impact Objectives                 | Sustainable land use (CCF Conversion and Afforestation)   |   |   |   |
| Climate Resilience Strategy                     | Yes   |   |   |   |
| Product/Service Certifications                  | Currently evaluating suitable product certification - 100% certified by FSC and PEFC by the end of fund life.   |   |   |   |
| Social and Environmental Targets                | The SLM Silva Fund established a partnership with the European Investment Bank's Natural Capital Finance Facility to develop a technical assistance (TA) operation. The key areas of focus and deliverables of the TA are: 1) CCF Training and Capacity Building Programme; 2) Integration of Additional Biodiversity Indicators into Conventional Forest Inventory; 3) Set up of forest plots for monitoring and planning under the AFI/ISN protocols; 4) Study on Sustainable Deer Densities and Carrying Capacity in Irish Forests; 5) Assistance in Carbon Monitoring; 6) Establishing a Forest Management Certification Scheme |   |   |   |
| Social and Environmental Performance Reporting  | Yes   |   |   |   |
| Jobs in Directly Supported/Financed Enterprises | 5,7 FTE   |   |   |   |
| Community Engagement Strategy                   | Yes, public consultation is built into the forestry management system in Ireland. We liaise where required with stakeholders.   |   |   |   |



# Impact measurement and results

## Property-Level assessments

During the development of the Fund, we designed a set of sustainability indicators that we would use to measure and report on impact at the forest-level. In particular, we liaised with the technical forestry and environmental experts of the European Investment Bank to define relevant indicators. The 7 indicators are listed below, along with notes on their relevance and how they will be measured.

| Indicator   | Relevance  | Means of Measurement  |
|---|--|---|
| <b>1. Area of Forest Managed Under CCF (hectares)</b>                 | This requirement is aligned with the Fund's objectives and acquisition strategy.   | The management / silvicultural system to be used for each forest will be stated in each individual forest management plan. A summary of these areas in hectares will be available via the forest inventory.   |
| <b>2. Forest Naturalness – Deadwood</b>                               | Fallen and standing deadwood, retained as habitat, is a key biodiversity indicator used internationally. Forest naturalness increases with greater volumes of retained deadwood.   | Deadwood will be measured in cubic meters per hectare (m <sup>3</sup> / ha.) as part of the forest inventory.   |
| <b>3. Forest Naturalness – Tree Species Range</b>                     | Most Irish plantation forests are either monocultures or have a very narrow range of species present. By increasing the range of species, opportunities arise for greater biodiversity levels and increased resilience against climate change.   | The tree species present at each site shall be recorded in the forest inventory.  |
| <b>4. Forest Naturalness – Tree Size Distribution</b>                 | Conventional forest management in Ireland is to homogenise tree sizes through thinning so that at felling all trees are of a similar size. Conversely, in CCF management, thinning is used to diversify the range of tree sizes in order to ensure a stock of trees over an extended time period. Therefore, the tree size distribution for any stand can be used as a strong indicator that stands are progressing towards CCF.   | Tree Diameter at Breast Height ("DBH") can be used as a proxy for tree size and the DBH distribution is measured as part of the inventory process. DBH is measured in centimetres (cm) and a distribution across the DBH range of trees in each stand can be presented. |
| <b>5. Forest Naturalness – Regeneration</b>                           | Conventional forest management in Ireland does not encourage natural regeneration. In CCF management, thinning from an early age is used to reduce the basal area to levels that encourage natural regeneration and stands are retained allowing seeding to occur. For this reason, the presence of natural regeneration is considered a reasonable indicator of progress in CCF management.   | The presence or absence of natural regeneration in the stand will be recorded in the forest inventory.  |
| <b>6. Forest Naturalness – Other Identified Biodiversity Features</b> | At present, most conventional forest inventory systems in Ireland are weak with regard to the assessment and recording of biodiversity features and indicators. Apart from the features already proposed as indicators 2 to 5 above, other features such as veteran trees, caves, cliff faces, old hedgerows, river banks, water courses, open spaces, inaccessible banks, springs, nesting sites, swamps etc. can be of high biodiversity value and should be recorded as such in the forest inventory. | Combined biodiversity data will be summarised per site on a site biodiversity map that quantifies in area (ha.) and percentage terms, the proportion of each site where biodiversity objectives are prioritised.  |
| <b>7. Carbon Sequestration</b>  | Forests are an important carbon sink and provide mitigation against global warming and climate change. For CCF forests, while some carbon is leaked from the system through natural timber decay and harvesting, the forest as a whole locks in carbon both above and below ground and this is retained as long as the forest is retained.   | It is intended to develop / adopt a measure, using the timber inventory as a proxy, that records carbon stored in forests owned and managed by the fund.  |



**€ 740,000**

Technical Facility Grant from the European Investment Bank under **The Natural Capital Finance Facility (NCFF)**

### Case Study: Scaling up “close-to-nature” forestry

The SLM Silva Fund is raising the bar for environmental management of forests and supporting industry-wide adoption of CCF in Ireland and the UK.

In 2021, the Fund benefited from a €740,000 technical facility grant from the European Investment Bank (EIB) under the Natural Capital Finance Facility (NCFF). The objective is to build the knowledge and toolkit needed to scale up CCF in Ireland.

This grant will fund research by consultants engaged by the RPS Group, working closely with our local Irish forest manager, Purser Tarleton Russell Limited (PTR). The properties in the SLM Silva Fund will provide data inputs for the research. The components of this research are detailed in the table below.

Through this research, our portfolio of forestry assets will develop an evidence base to support the dendrological, economic and environmental case for transformation from clear-felling regimes to CCF.

| Objectives  | Description  |
|---|--|
| CCF Training and Capacity Building Programme                                | The project will develop a training programme on CCF management that will deliver 8 training workshops, training approximately 80 people across the UK and Ireland.  |
| Generate Forest Inventory Data for Growth & Yield Models                    | The project will work with AFI (Association Futaie Irrégulière) and ISN (Irregular Silviculture Networks) to leverage software and data resources to monitor irregular stands and collect data that will drive growth and yield models.  |
| Develop a CCF Carbon Accounting Methodology                                 | Contrary to current forestry carbon models, this CCF carbon accounting methodology will simulated stock changes in litter and soils, in addition to biomass, deadwood and use-of-product. The project also aims to develop a series of tools to facilitate the registering of carbon projects under the VSC VM0003 methodology, underpinned by growth models of the transformation, regeneration, development and steady state stages. |
| Study Deer Carrying Capacity & Research Venison Markets                     | The project will study deer population and deer impacts on natural regeneration (growth of seedlings), as well as develop a deer management plan and training.   |
| Develop Biodiversity Monitoring Indicators                                  | There is currently a lack of scalable tools to measure biodiversity of woodlands. The project aims to identify biodiversity indicators, baseline measurements and assess the impact on biodiversity of woodland management practices.  |
| Establish a CCF Group Forest Management Certification Scheme                | The project will set up a forest management group scheme and develop a roadmap to certification.   |
| Research on Forest Soil Microbiomes and Impacts on Yield and Carbon Capture | The management of forest fungal microbiome has the potential to enhance not only timber yield, but also forest carbon capture in both stems and soils. The project will characterize the fungal microbiome across SLM’s properties, perform soil transplants to inoculate forests with different fungal communities and track the impact on tree growth and carbon capture.  |



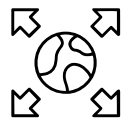
### Investment Strategy

SLM Partners manages a combination of separate accounts in the USA with \$80 million in capital focused on scaling up organic certified farming. Our investments support the production of organic grains such as corn, soybeans, wheat and other small grains, as part of multi-year crop rotations involving forages and cover crops.

Our core strategy is to acquire conventional cropland and partner with local farmers to convert this land to organic production. Consumer demand for organic food is growing strongly, and organic food sales are now 6% of total food sales in the USA. There are strong price premiums for many organic crops. Yet, American farmers have been slow to transition to organic production because of perceived financial and agronomic risks: the

amount of organic certified cropland is less than 1% of the total cropping acreage. Our strategy helps to overcome these barriers. We identify skilled organic farmers who want to expand, work with them to find suitable land, acquire this land and make it available to the farmers through long-term, flexible leases. In effect, we share some of the risks of the 3-year organic transition with farmers and then share in some of the higher profitability that comes from organic farming.

In addition, we provide farm management services to investors or landowners who own large properties and want to convert them to organic certification. We build farm teams, design crop rotations, develop farm management plans, secure marketing contracts and oversee farm operations.



### Impact Thesis

Conventional arable farming has largely focused on maximising yields, leading to an over-reliance on external inputs, such as synthetic fertilisers, genetically modified seeds, pesticides, herbicides and other chemicals. These farming systems are associated with a number of well-documented problems: soil erosion, water pollution, pesticide toxicity, high greenhouse gas emissions, reduction of biodiversity (such as pollinators), and over-use of antibiotics in animals. At the same time, conventional farmers often struggle to make a profit, squeezed between high input costs and fluctuating commodity prices<sup>44</sup>.

Organic agriculture is governed by a strict set of regulations that prohibit the use of synthetic pesticides and fertilizers, genetic engineering (GMOs), antibiotics, and growth hormones, as well as requiring the use of farming methods that promote ecological balance and foster on-farm biodiversity. As a result, organic farmers tend to grow a more diverse range of crops, plant cover crops to nourish the soil, and use livestock manure or compost to build soil fertility. They rely on biology, not chemistry, to sustain production and to control pests and weeds.

Well-managed organic farms – using regenerative practices such as cover crops, diverse rotations, organic fertility and livestock grazing – can deliver many environmental benefits. They support more biodiversity and reduce nutrient run-off into waterways. They have healthier and more biologically active soils with higher levels of soil organic matter. Although they usually require tillage to control weeds, the use of organic farming practices has been shown to increase soil carbon over time and to reduce greenhouse gas emissions associated with synthetic fertilisers and agro-chemicals. As a result, organic farming can contribute both to climate change mitigation and adaptation.

Our strategy has positive social impacts by helping organic family farmers expand and thrive. We provide long-term access to land (instead of the leases of 1, 2 or 3 years that are common) and share in some of the financial risks of organic transition. We help farmers achieve higher levels of income, and employ more farm workers, which contributes to the revitalisation of rural economies. The transition to organic farming also reduces the amount of pesticide residues in food and eliminates the risk of pesticide poisoning for farm workers.



## Progress so far

Our land investment strategy is focused on the US Midwest and Northeast. Since the end of 2019, we have acquired properties in Illinois, Michigan and Ohio totalling 1,065 hectares (2,631 acres). This land has been leased to local organic farmers using a 10-year lease agreement with flexible terms.

In 2021, we acquired 7 new farms, deploying capital for a US\$75 million separate account with an institutional investor. The focus for this mandate is Illinois, Indiana, Michigan, Ohio and New York, although we will consider investments in other states. The farms are all transitioning towards organic certification, growing soybean, corn, wheat, alfalfa, dry beans and other cover crops.

Nutrient runoff can be an issue for many farming systems with patterned tile drainage, though is

less of a concern in organic systems where fertility sources, e.g. manure, are less susceptible to runoff. SLM Partners is in dialogue with a specialised consultant, DIGS Associates, to assess the best approach to address any concerns of runoff. On one of our farms, called Pike farm, we are currently investing in a water drainage management system.

In 2021, SLM Partners continued to advance impact measurement systems for our farms through collaborations with industry groups and research institutions. We joined the Ecosystem Services Market Consortium (ESMC), working on carbon measurements (including soil carbon measurements) on farms and carbon credit development. We continued our work with Carbon Yield, who are now also partnering with ESMC themselves.



















# Impact measurement and results

## Reporting frameworks

We have presented below the details of the 32 IRIS+ indicators we currently use to assess the impact of our strategies. These are matched to their respective impact themes and categories and aligned to relevant SDGs.

| GIIN IRIS+ Metrics  | GIIN IRIS+ Metrics - Results  | GIIN IRIS+ Primary Impact Categories   | GIIN IRIS+ Other Impact Categories  | SDGs  |
|---|---|--|---|---|
| Crop Type   | Soybean, Corn, Wheat, Alfalfa, Cover Crops, Dry Beans   | <br>Agriculture                | <br>Biodiversity & Ecosystems / Land / Employment / Health                   |    |
| Livestock/Fish Type   | No  |  |   |   |
| Land Directly Controlled: Total                             | 1,065 ha  |  |   |   |
| Land Directly Controlled: Cultivated                        | 1,006 ha  |  |   |   |
| Land Directly Controlled: Sustainably Managed               | 1,006 ha  |  |   |   |
| Land Directly Controlled: Treated with Pesticides           | 0 ha  |  |   |   |
| Biodiversity Assessment                                     | No  | <br>Biodiversity & Ecosystems | <br>Biodiversity & Ecosystems   |   |
| Greenhouse Gas Emissions Strategy                           | Our strategy is to convert conventional cropland to organic certification. Organic farming eliminates the use of synthetic fertilisers and pesticides, applies biological fertility (such as manure or compost), uses cover crops, and adopts more diverse crop rotations. Organic farms often use minimal tillage to control weeds, which can increase fuel use. But organic farms use less fossil fuel-intensive agrochemicals and have reduced nitrous oxide emissions. Over time, well-managed organic farms increase soil organic matter, leading to carbon sequestration in soils. Overall, well-managed organic farms have less GHG emissions than conventional, chemical-based agriculture. | <br>Climate                  | <br>Air / Energy / Land / Pollution  |  |
| Greenhouse Gas Emissions Avoided Due to Carbon Offsets Sold | 0   |  |   |   |
| Greenhouse Gas Emissions Sequestered                        | N/A   |  |   |   |
| Greenhouse Gas Emissions Mitigation Types                   | • Greenhouse gas emissions sequestered from land use, land use change, and forestry; • Greenhouse gas emission reductions from land use, land use change, and forestry  |  |   |   |
| Forest Management Plan                                      | N/A   |  |   |   |
| Type of Land Area   | Agricultural Land   | <br>Land                     | <br>Agriculture / Biodiversity & Ecosystems / Employment / Climate / Water |  |
| Ecosystem Services Provided                                 | Provisioning Values/Services: Food - Freshwater<br>Regulating Values/Services: Regulation of climate - Regulation of water timing and flows - Erosion control - Disease mitigation - Maintenance of soil quality - Pest mitigation - Pollination<br>Supporting Values/Services: Habitat - Nutrient cycling - Primary production - Water cycling<br>Cultural Values/Services: Educational and inspirational values   |  |   |   |
| Area of Trees Planted: Native Species                       | N/A   |  |   |   |
| Area of Trees Planted: Total                                | N/A   |  |   |   |
| Ecological Restoration Management Area                      | 59 ha   |  |   |   |



# Impact measurement and results

## Reporting frameworks

We have presented below the details of the 32 IRIS+ indicators we currently use to assess the impact of our strategies. These are matched to their respective impact themes and categories and aligned to relevant SDGs.

| GIIN IRIS+ Metrics                              | GIIN IRIS+ Metrics - Results  | GIIN IRIS+ Primary Impact Categories | GIIN IRIS+ Other Impact Categories  | SDGs |
|---|---|--------------------------------------|---|------|
| Soil Conservation Practices                     | Application of regionally appropriate practices to minimize disturbance and physical damage of soil on cropland such as the use of cover crops, replacement of synthetic fertilizers with biological fertility, installation of riparian buffers, which reduces nutrient run-off; Prevention of soil erosion, acidification, salinization and accumulation of other adverse compounds   |                                      |   |      |
| Soil Health Practices                           | Application of regionally appropriate soil health improvement practices such as lower tillage systems, cover cropping, addition of soil amendments (e.g. Compost and manure) and crop residue usage to maintain or enhance soil fertility and physical and biological characteristics of soil; Monitoring of soil health characteristics, including nutrients from different sources necessary to maintain or enhance appropriate nutrient balance and soil health; Developing and maintaining an up-to-date nutrient management program that efficiently uses nutrient inputs and nutrients in the soil and crops to create optimum conditions for production and avoids nutrient loss to water and air. | <p>Land</p>                          | <p>Agriculture / Biodiversity &amp; Ecosystems / Employment / Climate / Water</p> |      |
| Water Quality Practices                         | Installation of riparian buffers; use of cover crops; replacement of synthetic fertilizers with biological fertility, which reduces nutrient run-off.   |                                      |   |      |
| Level of Water Stress                           | Low-medium (10–19.9%)   | <p>Water</p>                         | <p>Agriculture / Biodiversity &amp; Ecosystems / Climate / Land / Waste</p>       |      |
| Water Withdrawn                                 | 0   |                                      |   |      |
| Water Type                                      | Rainwater   |                                      |   |      |
| Target Area Ecoregion                           | Temperate broadleaf and mixed forests, temperate coniferous forest, temperate grasslands, savannas and shrublands   |                                      |   |      |
| Total Assets                                    | Assets under management (AUM): US\$80m  |                                      |   |      |
| Environmental Impact Objectives                 | Sustainable land use (Organic Conversion)   |                                      |   |      |
| Climate Resilience Strategy                     | Yes   |                                      |   |      |
| Product/Service Certifications                  | USDA Organic Certified  |                                      |   |      |
| Social and Environmental Targets                | 1) All controlled land is under organic certification or in transition to organic certification (100% currently). 2) Farms achieve a net positive change in GHG emissions and sequestration compared to previous baseline (measurement not yet started). 3) Increase in biodiversity on all farms (not yet measured). 4) Helping organic farmers to access more land and to scale up (8 farmers leasing land)   | Cross - Category                     | Cross - Category  |      |
| Social and Environmental Performance Reporting  | Yes   |                                      |   |      |
| Jobs in Directly Supported/Financed Enterprises | 27 FTE  |                                      |   |      |
| Community Engagement Strategy                   | Supporting small and medium scale family farming enterprises through affordable farmland access.  |                                      |   |      |



## Industry-Involvement: Ecosystem Services Market Consortium “ESMC”

SLM Partners has joined the Ecosystem Services Market Consortium (ESMC), an American non-profit organisation that is developing a national ecosystem services market programme that will compensate farmers and ranchers who improve the environment through their agricultural practices. ESMC generates and sells credits for greenhouse gas reduction as well as improvements to water quality and quantity. We have worked with ESMC to develop a one-year pilot

project that will be launched in 2022 to measure soil carbon sequestration and emissions reductions across our US Midwest farmland portfolio. This will be the first time that a rigorous carbon measurement scheme has been applied at scale across farmland that is organic certified or in organic transition. This project will also help ESMC refine their models and tools for organic farming systems.



## Property-Level assessments: Illinois pilot project

In 2020, we carried out an initial pilot project to assess the impact of transitioning conventional cropland to organic certification on soil carbon and farm-level greenhouse gas emissions. We commissioned Carbon Yield, a specialist carbon project developer that focuses on agriculture, to carry out an assessment of Pike and Condon farms in Illinois. These comprise 193 acres of farmland that we acquired in late 2019 and 2020 and leased to a local organic farmer, Wyatt Muse. The Carbon Yield team collected data on soil types, the prior history of the land, and Wyatt’s crop rotation and farming practices. They inputted this data into the COMET-Farm tool, the official greenhouse gas quantification tool of the US Department of Agriculture (USDA). They then used the Nori soil carbon methodology to estimate the number of verified soil carbon credits that the farms would deliver, after taking into account all discounts and buffers. Under this methodology, the farms are expected to sequester 2,783 tonnes of CO<sub>2</sub>e over ten years, at a rate of 1.45 tonnes per acre per year.

We believe this is a good estimate of the potential climate mitigation benefits of transitioning conventional cropland to organic farming practices. Extrapolated across our full Midwest farmland portfolio, and applied to properties in organic transition or already organic certified, these results indicate that our properties have the potential to sequester more than 35,000 tonnes of CO<sub>2</sub> over 10 years. The completion of the new ESMC project will provide more detailed and robust figures for 2022.

### Projected soil carbon sequestration on SLM farms in Illinois under organic transition

|  | Pike Farm | Condon Farm | Combined |
|--|-----------|-------------|----------|
| Area (acres)                                 | 81        | 112         | 193      |
| Average tonnes CO <sub>2</sub> e/ acre/ year | 1.51      | 1.39        | 1.45     |
| Total tonnes CO <sub>2</sub>                 | 1,225     | 1,558       | 2,783    |

Source: Carbon Yield, based on COMET-Farm tool and Nori soil carbon scheme

## Property-Level assessments: Certifications

All our acquired or managed properties in the US are organic certified or in transition to organic certification. Certification is carried out by third party certifiers that are accredited by the US Department of Agriculture under the National

Organic Program. Each farm must present an organic system plan and provide records of crop rotations and all substances used. Organic certifiers carry out inspections of every farm before approving certification.



Illinois, USA



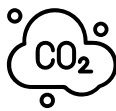
670



acres acquired and leased



Organic non-GMO soybeans, wheat and corn



4 wind turbines

### Case Study: Rowland Farm, Illinois

In 2021, we partnered with a 4th generation farmer from Woodford County, Illinois. He has farmed grain within Woodford County for his entire life and works closely with his family. They farm together under Walnut Creek Organics LLC (WCO), a family business, currently managing 2,715 acres. All ground is farmed organically or is in transition to organic. The WCO team began farming under organic practices in 2003, and have been farming exclusively organic since 2012.

When we met with WCO, they were ready to grow. They had the skills, experience, community and vision of expanding asset base by over 1,000 acres within the next 3 years. Their operation was properly equipped to handle acreage expansion, including machinery and team. However, the current short term lease arrangements commonly available in their region were ill-fitted to their objectives. Organic transition takes 36 months and typically requires financial losses during the first two years of the transition. To take this risk, farmers need a guarantee that they will be able to stay on the land long-term, and thereby reap the returns on their investment. This is what attracted them to SLM’s “farmer-first” approach.

In 2021, we acquired a 670-acre farm, of which 647 acres are non-irrigated cropland, and entered in a 10-year lease with WCO. Under our lease terms, they would pay a reduced rent during the organic transition and then a standard rent plus a profit share after the farms are certified. During the 3-year rotation, WCO will grow non-GMO soybeans, then wheat, and in the 3rd year of farming produce organic corn. After these rotations are complete, they will farm a 3-year rotation of organic soybeans, wheat, and corn for the remainder of the lease.

Four wind turbines are located on Rowland Farm, with long-term leases held by a local power company.





## COMING UP

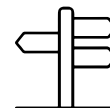
### **SLM Silva Europe**

In 2021, SLM Partners launched a new Europe focused strategy called the SLM Silva Europe Fund. The strategy had a first close in December 2021.

The strategy invests in forestry and permanent crops across Ireland, Portugal, Spain and other European countries. We intend to build a climate positive portfolio, which stores more carbon than it emits, while also contributing to EU targets on biodiversity, organic farming and sustainable food. It will help institutional investors meet their commitments to action on climate and biodiversity.

We will measure and verify these impacts by engaging third-party organisations to carry out robust and transparent carbon life-cycle analysis (LCA) on all acquired properties. At an operational and portfolio level, we will develop detailed baseline assessments and set clear targets for climate, biodiversity, water and social outcomes. We see this new European fund as an opportunity to push our impact measurement and reporting to the next level.





Sustainability and ESG reporting have moved by leaps and bounds over the last few years. The financial and corporate sectors have now fully embraced voluntary reporting, while regulation is moving fast to bring more transparency and accountability to asset managers and financial products. Yet, in many ways the journey has only started. We recognise some of the limitations in how we are currently able to report on impact and see the need to advance reporting on two key fronts.

For those working across natural capital strategies, the first challenge relates to the lack of a cohesive and standardised set of metrics and indicators for agriculture and forestry. For now, we have mostly relied on practice-based and ad-hoc qualitative assessments to demonstrate impact, but we will include more evidence-based assessments across carbon (i.e. Life Cycle Analysis), soil health, biodiversity and water in our future investment strategies. This new suite of indicators and metrics will be aligned with the GIIN IRIS+, the SDGs and the EU SFDR reporting taxonomies to ensure a consistent communication effort, and compliance, with the delivery of impact outcomes. The second challenge is to validate our reporting processes and systems, including data collection and analysis, through engagements with independent third-party experts. Third-party verification is a necessary step towards transparency and will

also provide a more dynamic and independent approach to evaluate the impact risks and opportunities associated with our investments. This extra level of rigour and disclosure will benefit investors and a wider set of stakeholders.

Measuring and ground-truthing a complex and granular set of biological processes at the farm and forest level is not an easy task. With the advent of more reliable and cost-effective soil and climate sensors, remote sensing data monitoring systems and wider use of geo-referenced farm machinery data access, technology is starting to play a greater role in environmental assessments. We will leverage technology and streamline data collection and analysis where possible. But there will be a cost to implementing more robust impact reporting. Managers and investors should be explicit about this when agreeing on management fees and other fund costs.

Our future reporting activities will aim to further embed impact into our strategies and day-to-day operations. Managing agricultural and forestry assets in line with ecological principles is full of complexity. Outcomes are not always immediate nor obvious. Time and patient capital are of the utmost importance for pursuing such investments, but we believe more than ever that the ecological impacts and financial returns make it worthwhile.



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