

Regenerative Agriculture: Reaping the Rewards

August 16 | Anne Dinges

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Recent Headlines

Regenerative Agriculture: The Next Trend In Food Retailing



Jack Uldrich Forbes Councils Member
Forbes Business Council COUNCIL POST | Membership (Fee-Based)

SOIL HEALTH INITIATIVE BY DANONE NORTH AMERICA SEES MEANINGFUL RESULTS

By Successful Farming Staff
1/28/2022

In 2017, Danone North America launched a comprehensive soil health program to improve organic matter in soils that would increase carbon sequestration and improve yields, reduce chemical use, restore biodiversity, and enhance soil water holding capacity, to help provide dairy farms with improved, long-term economic resilience. As the company wraps up year four of its five-year initiative, an assessment reveals meaningful performance among participating dairy farms.



thor, and

Food Business News

Companies Trends Product Development Advertising Subscri

Nestle to invest \$1.3 billion in regenerative agriculture



Guinness brews up new regenerative barley farming pilot in Ireland

By Michael Holder



REGENERATIVE AGRICULTURE – A NEW CHAPTER OF BARLEY IN THE STORY OF SOIL

Proximity Malt 05-21-2020

Did you know that the devastation of the 1930's Dust Bowl catalyzed a focus on improved agricultural practices in America that is still underway today?

GreenBiz Videos Climate Tech Circularity ESG

FOOD WEEKLY

Are the bubbles in your beer made from sustainable CO2?

By Jesse Klein

October 7, 2020



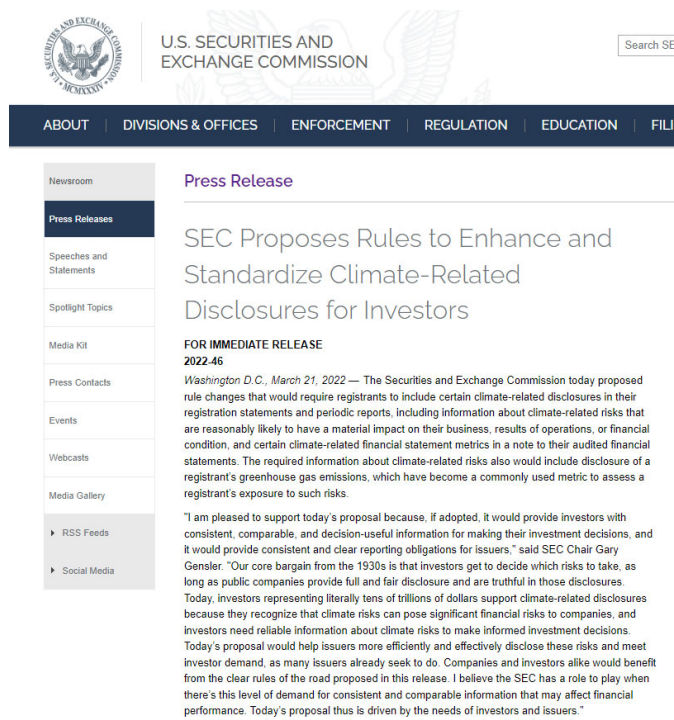
Green shoots: Heineken to trial low-carbon barley farming

Bea Tridimas
20 September 2021 • 3 min read

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Government Pressure



The screenshot shows the SEC website's press release page. At the top, the SEC logo and name are visible, along with a search bar. A navigation menu includes links for ABOUT, DIVISIONS & OFFICES, ENFORCEMENT, REGULATION, EDUCATION, and FILINGS. On the left, a sidebar menu lists various content categories, with 'Press Releases' highlighted. The main content area features the title 'SEC Proposes Rules to Enhance and Standardize Climate-Related Disclosures for Investors' and a sub-header 'FOR IMMEDIATE RELEASE 2022-46'. The text of the release discusses proposed rule changes for climate-related disclosures and includes a quote from SEC Chair Gary Gensler.

U.S. SECURITIES AND EXCHANGE COMMISSION

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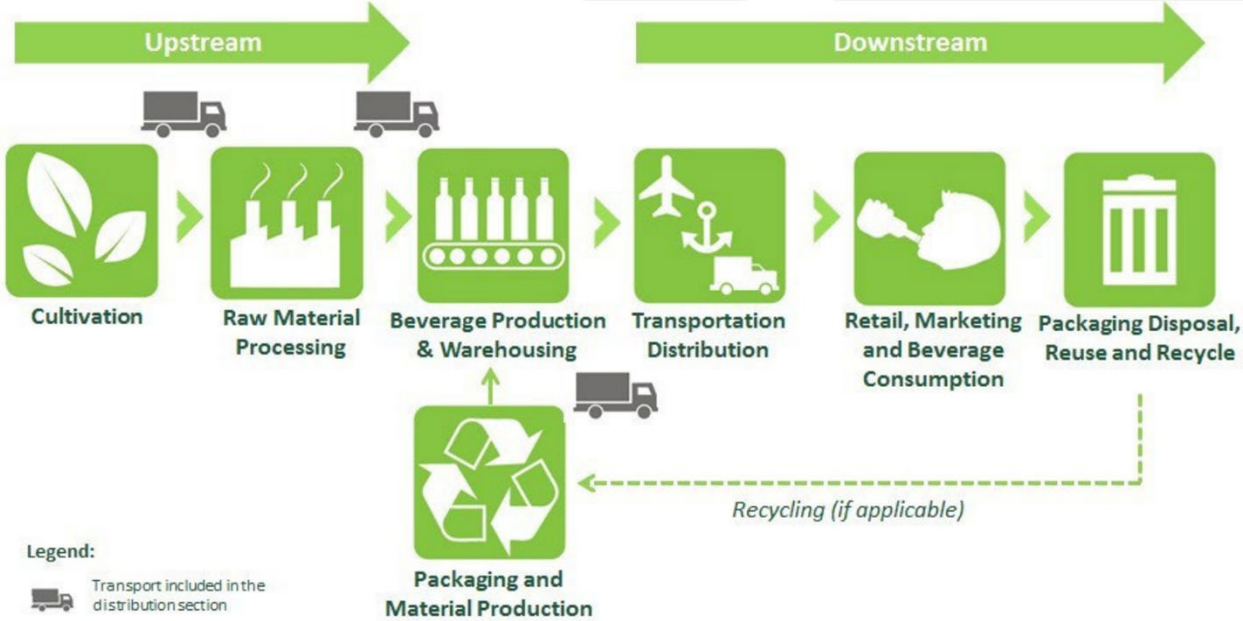
SEC Proposes Rules to Enhance and Standardize Climate-Related Disclosures for Investors

FOR IMMEDIATE RELEASE
2022-46

Washington D.C., March 21, 2022 — The Securities and Exchange Commission today proposed rule changes that would require registrants to include certain climate-related disclosures in their registration statements and periodic reports, including information about climate-related risks that are reasonably likely to have a material impact on their business, results of operations, or financial condition, and certain climate-related financial statement metrics in a note to their audited financial statements. The required information about climate-related risks also would include disclosure of a registrant's greenhouse gas emissions, which have become a commonly used metric to assess a registrant's exposure to such risks.

"I am pleased to support today's proposal because, if adopted, it would provide investors with consistent, comparable, and decision-useful information for making their investment decisions, and it would provide consistent and clear reporting obligations for issuers," said SEC Chair Gary Gensler. "Our core bargain from the 1930s is that investors get to decide which risks to take, as long as public companies provide full and fair disclosure and are truthful in those disclosures. Today, investors representing literally tens of trillions of dollars support climate-related disclosures because they recognize that climate risks can pose significant financial risks to companies, and investors need reliable information about climate risks to make informed investment decisions. Today's proposal would help issuers more efficiently and effectively disclose these risks and meet investor demand, as many issuers already seek to do. Companies and investors alike would benefit from the clear rules of the road proposed in this release. I believe the SEC has a role to play when there's this level of demand for consistent and comparable information that may affect financial performance. Today's proposal thus is driven by the needs of investors and issuers."

Carbon Sources Throughout the Supply Chain



Carbon Sources Throughout the Supply Chain



Why Track & Report Regenerative Ag?

Climate Crisis

Support agriculture to be a solution to the climate crisis and mitigate global warming potential by tracking where we're at and making practice changes to improve

Reduces Risk

Ensure the supply chain (beginning with raw materials) is prepared for growing season and procurement changes

Market Factors

The marketplace is adjusting to demands around sustainability and regenerative agriculture

Consumer Value

Consumers desire to spend money on a product that improves the environment

Sustainability You Can Prove

To change and adapt, real data is needed to set benchmarks and track progress year over year.



Set Data Benchmark



Implement Practices



Track Yearly Progress



Drive Continuous Improvement



Improve the Industry

Key Performance Indicators

- ✓ **Soil Health**
- ✓ **Water Quality**
- ✓ **Biodiversity**
- ✓ **Economics**



On-Farm Example: Irrigation



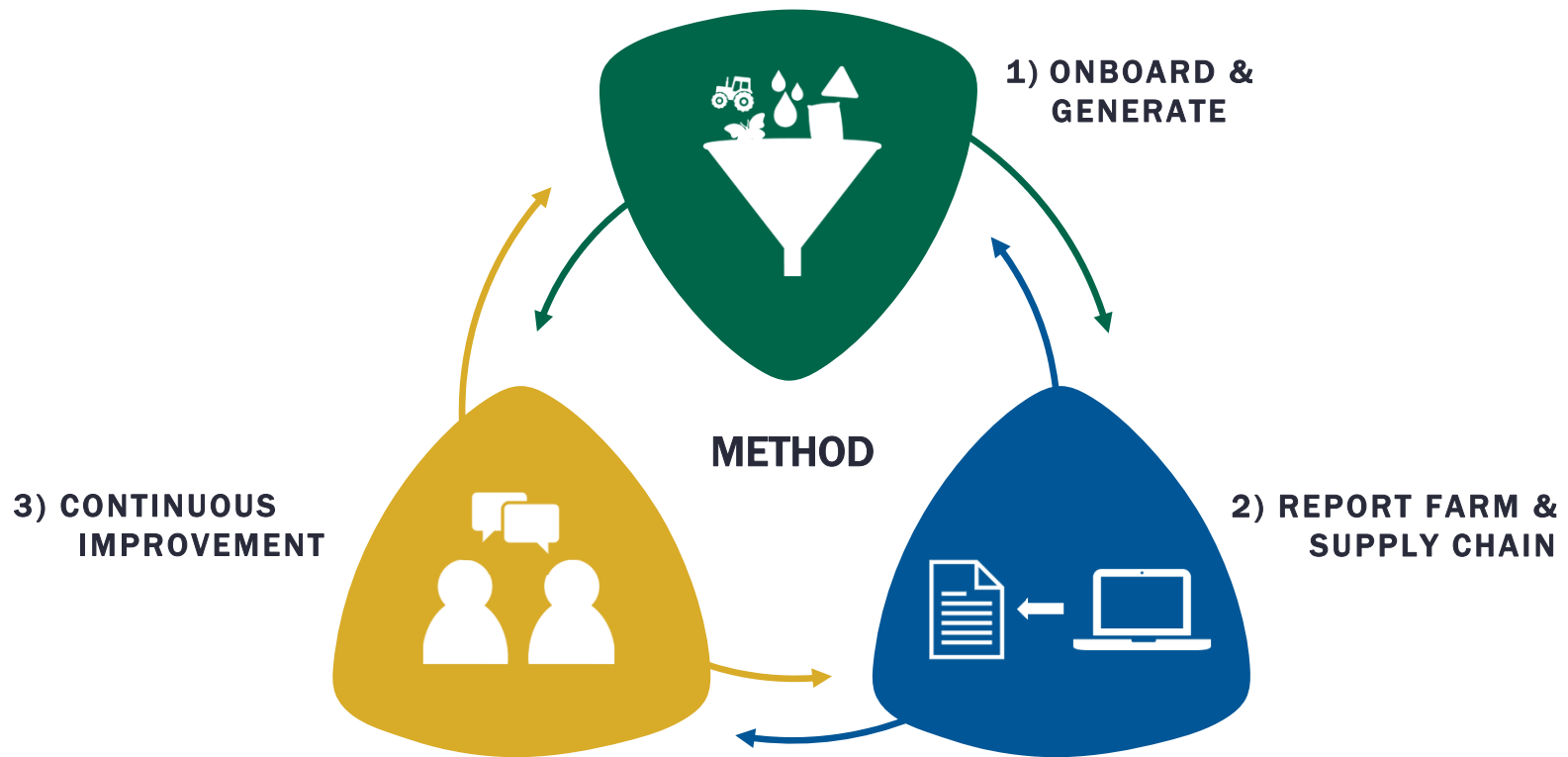
On-Farm Example: Tillage



On-Farm Example: Crop Management



Our Process




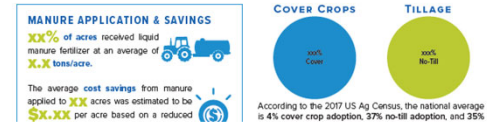
Reporting Example

247 acres from **3** fields

IN-FIELD PRACTICE COMPARISON IMPACTS

When compared to conventional practices (i.e. conventional tillage, no cover crop scenario), in-field farm practices generated:[†]

-  **27** fewer tons of CO₂e, which is the same as
-  **4** average passenger cars off the road for a year
-  or **1** rail car of coal saved from being burned
-  **7** tons of soil carbon sequestered
-  **77** tons of soil saved instead of being lost to erosion, which is the same as
-  **4** dump trucks of soil



Request a Report for Your Farm: go.earthcheckoff.com/farm-report

SUSTAINABILITY ANALYSIS

2021 ON-FARM PRACTICES REPORT

About ABC Farm
In Central Iowa, John and Jane Doe established their farm to finishing operation in the early 2000s. As they continued to grow, new facilities were built in 2005. John and Jane have three children, Jack, Joey, and Jill. Each member of the family plays a role in the day to day operations.

Quantifying the Impact of Actual Farm Practices
The benefits were determined through EcoFactors' unique process that is able to pinpoint the influence of specific agricultural practices. While agricultural practices have progressed to better care for natural resources, the ability to quantify the influence these practices have on sustainability has not kept pace. ABC Farm seeks to put evidence-based measurements to its farm practices, giving such data brings more depth to decision-making. Short- and long-term goals can be based upon more meaningful information.

Conservation Practice	Fields with Practice	Acres of Practice
Grassed Waterway	X	X
Forest	X	X
Buffer	X	X
Wetland	X	X

WE CARE ETHICAL PRINCIPLES
The We Care initiative was launched in 2008 as a joint effort of the National Pork Board, the National Pork Producers Council (NPPC), and state organizations representing farmers. Through the We Care initiative, they hope to learn the public's trust by making this industry better for all concerned – animals, farmers, food industry partners, and consumers worldwide.

- Food Safety
- Animal Welfare
- Environment
- Public Health
- Our People
- Our Communities

NATIONAL PORK BOARD'S ENVIRONMENTAL INITIATIVE
One pillar of the We Care Ethical Principles Environment. This includes the use of manure in a manner that safeguards air and water quality, includes air quality from production facilities to minimize the impact on neighbors and the community, and includes managing operations to protect the quality of natural resources.

- Air Quality
- Carbon Footprint
- Emergency Action Plan
- Manure & Site Management
- Feed Management
- Mortality Management
- Water Conservation

CROP % ACRES YIELD

CROP	% ACRES	YIELD
Corn Grain	XX%	XXX bu/ac
Soybean	XX%	XX bu/ac

Feed is grown for pork production. The manure produced provides macro- and micro-nutrients to the crops while adding organic matter to the soil.

IG INDEX (SCI)
CI is a tool from NRCS that health. A positive SCI means health and vice versa.
An overall trajectory

ACTIVE IMPACTS
Benefits resulted from to a conventional tillage, no tation of CO₂e, which
Average passenger cars off e a year
An of coal saved from being
Carbon sequestered
of soil saved instead of ion, which is the same as mp trucks of soil

2022

Consumer pressures and industry transparency are here to stay.

Sustainable Environmental Consultants is here to help.

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