Incentivizing conservation adoption through food quality marketplaces

USDA Conservation Innovation Grant 2022 – 2024 Christi Electris Croatan Institute

> Conservation Finance Roundtable April 25, 2024

PROJECT OVERVIEW

Title: Incentivizing Conservation Adoption through Food Quality Marketplaces

Total project amount: \$2.0+ million

- \$690,280 (Federal)
- \$1,318,713+ (Non-federal match)

Objectives

- 1) Identify attributes of conservation, food quality, and socio-economic characteristics of farms that can be associated with agricultural food products in the marketplace
- 2) Help facilitate, learn from, and give recommendations on market transactions that reflect the nutritional, environmental, and social benefits of regeneratively-grown farm products, leveraging innovative data
- 3) Attract traditional finance to conservationoriented agriculture operations and products, across asset classes

CIG PROJECT PARTNERS CROATAN Nourishⁿ **INSTITUTE** griculture Capital U.S. Department of Agriculture Natural Resources Conservation Service **ADDITIONAL STAKEHOLDERS** BeeODiversity Mad Agriculture Turquoise Mountain Farms

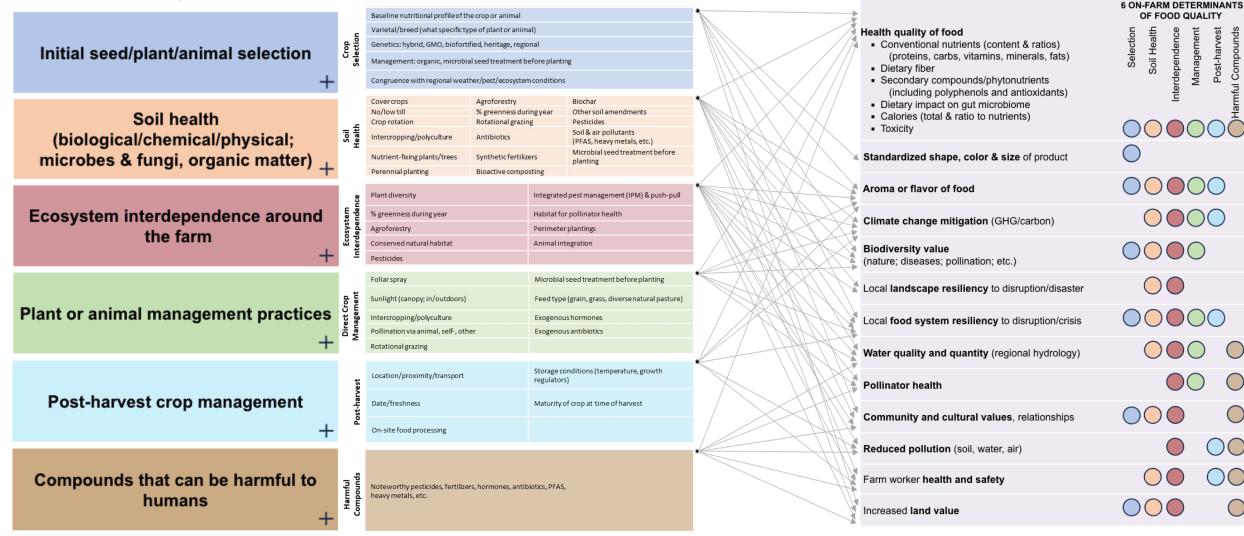
Individual Farm Participants

Activating the Economics

6 On-Farm Determinants of Food Quality

Detailed Farm Practices

Value Propositions





Innovative Data Generation

Bionutrient Food Association Metabolomics
 Nutrient density
 Nutrient variation

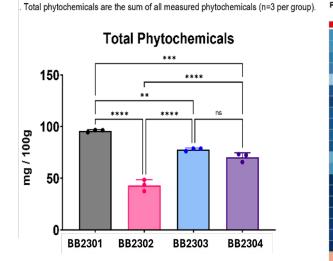
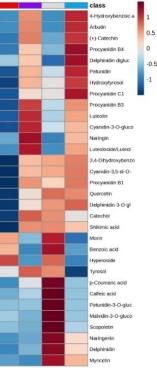


Figure 2. Heatmap of compounds.

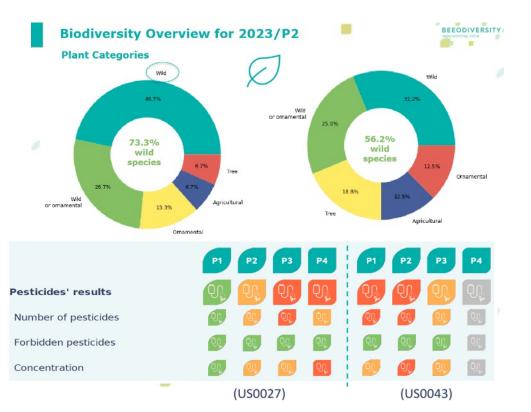






Innovative Data Generation

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 Nutrient density
 Nutrient variation
- **BeeOdiversity** BeeOmonitoring Biodiversity measurement tool (Vegetal Variety) Pollution measurement tool (Pesticide and Heavy Metals) Pollen Nutritional Value (Pollinator Health)







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- Merge Impact Dashboard

Connects sustainability and food quality data to support practices and markets







Innovative Financial Mechanisms

REGENERATIVE READINESS

SOIL WEALTH

Investing in Regenerative Agriculture across Asset Classes















future

Firms

Products

Asset Class

Cash & Equivalents

Fixed income
Private Debt
Public Equity
Private Equity/VC

Real assets

✓ Soil Wealth

Food & Ag Filters

emerging

Redwood Agri Fund

growing rapidly

AMERRA Capital

ready to scale

Private Equity/VC

✓ Soil Wealth

established

15 Products – Food &	Ag (filtered)		
Product	Firm	Asset Class	Investment Theme
Orange Nature Fund	Mirova Althelia Fund	Real assets	✓ Soil Wealth
Philanthropic Notes	Black Farmer Fund	Private Debt	✓ Soil Wealth
Pioneer Valley Grows Investment Fund (PVGIF)	Pioneer Valley Grows	Private Debt	✓ Soil Wealth
Proterra Asia Fund 3	Proterra Investment Partners	Real assets	✓ Soil Wealth
Proterra FF2 Fengji Co- Investment Fund	Proterra Investment Partners	Private Equity/VC	✓ Soil Wealth
RSF Food System Transformation Fund	RSF Social Finance	Private Debt	✓ Soil Wealth
RSF Social Investment Fund	RSF Social Finance	Private Debt	✓ Soil Wealth
Real Estate and Land	Mad Capital	Private Debt	✓ Soil Wealth

Innovative Financial Mechanisms

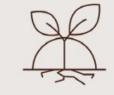
REGENERATIVE READINESS

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future

emerging

growing rapidly

ready to scale

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Mechanism	Cash	Fixed Income / Public Debt	Private Debt	Public Equity	Private Equity/ VC	Real Assets
Certificates of Deposit at local depository institutions	Х					
Real estate investment trust (REIT)						Х
Land-secured assessment financing		Х				
Diversified Community Investment Fund					Х	
Direct Public Offering					X	
Loan Guarantee Pool			х			

July 2019 Christi Electris, Joshua Humphreys, Kristin Lang, David LeZaks, and Jaime Silverstein





Thank you!

Questions or reactions? Christi Electris christi@croataninstitute.org

CROATAN

INSTITUTE

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