

FIXING THE SOIL HEALTH TECH STACK:

Gathering for Action

A TWO-DAY VIRTUAL CONFERENCE
AUGUST 23-24, 2022



TWO SEPARATE EVENTS,
RUNNING IN PARALLEL, IN
AN EFFORT TO CREATE A
BLUEPRINT FOR IMPROVING DATA
INTEROPERABILITY AFFECTING
ALL SECTORS OF AGRICULTURE.

Conference Event Details

The “Fixing the Soil Health Tech Stack” activities will gather people committed to taking collective action to bridge soil data interoperability, calibration, and standardization to ease the movement of soil-centric data between those collecting, analyzing, and taking action upon presented soil-centric data in order to have a thriving marketplace to reward farmers and ranchers for taking actions and delivering outcomes that result in healthier soils and carbon sequestration.

Designed to fast-track tangible progress toward fixing the soil health tech stack, this event is both a conference and hackathon running in parallel. Anyone interested in **unlocking the potential for actionable soil-related data through greater data interoperability and standardization** should attend.

“Fixing the Soil Health Tech Stack” is comprised of three interwoven activities:

- *The Soil Sampling Campaign*
- *The Soil Data Hackathon*
- *The “Fixing the Soil Health Tech Stack” Virtual Conference*

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GROUNDWORK: PART ONE

Soil Sampling Goals

The goals of the soil sampling campaign are:

- *To measure carbon accounting as well as carbon detection over time*
- *To examine potential variances across multiple labs*



The Soil Sampling Campaign

Over spring/summer 2022, a robust soil sampling effort at TomKat Ranch in Pescadero, California will yield thousands of soil samples. These will have soil carbon percentage and bulk density analyzed by several soil labs to create a robust data layer across multiple pastures where TomKat has applied treatment regimes. Collecting results in different formats sets the stage for the Soil Data Hackathon. Visit <https://bit.ly/3FHGqSB> for more detail.

The Soil Data Hackathon

The Purdue Open Agriculture Technology Systems (OATS) Center will take the data results from the Soil Sampling Campaign to create a publicly available data set to serve as the data foundation for the Soil Data Hackathon. Participating developers will create open source code to help with the transfer and presentation of soil-related data in a common medium through a hackathon-style virtual event over a two-day period. This event is concurrent with the Fixing the Soil Health Tech Stack virtual conference.

How Will the Hackathon Work?

- *The Hackathon will focus on utilizing the Ag Gateway-maintained MODUS standard format for soil lab sample data and associated standard API for interacting with that format using the OATS Center-maintained OADA (Open Ag Data Alliance) framework.*
- *Hackathon participants will produce drag-and drop converters from existing formats into MODUS.*
- *Participants will produce a user-friendly viewer for MODUS-formatted files and will integrate the format into supportive partner's existing software.*

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Fixing The Soil Health Tech Stack Virtual Conference

A four-hour virtual conference on Tuesday, August 23rd, and Wednesday, August 24th.

Agenda Preview:

- *Why we need to fix the soil health tech stack*
- *What benefits can interoperable, calibrated soil-related data unlock*
- *Thinking beyond carbon*
- *Multiple opportunities for breakout discussions with industry leaders*

Participants will be charged \$40 for virtual attendance and provided with a published post-conference summary. Should an in-person option become available, an appropriate registration fee will be charged. Farm Foundation looks to cover event-related costs through sponsorship.

Who Will Attend the Fixing the Soil Health Tech Stack Event?

We expect at least 100 participants to take part in the two-day event. Among the participants will be:

- *Sustainability Experts*
- *Corporate Officers*
- *Software Developers*
- *Researchers*
- *Soil Scientists*
- *Non-profit Program Managers*



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ABOUT FARM FOUNDATION

Farm Foundation is an accelerator of practical solutions for agriculture. Our mission is to build trust and understanding at the intersections of agriculture and society. For more than eight decades, Farm Foundation has brought wide range of people to the table to tackle some of the most pressing issues in food and agriculture. From issues like soil health, clean water and antimicrobial stewardship to farm structure, food pricing and trade, Farm Foundation has been behind the scenes, assisting leaders in the private sector and government make thoughtful, informed decisions.