

Open Horizon Smart Agriculture SIG

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Core Beliefs

- With sufficient sensors and data, you should be able to apply the optimum resources to grow crops to their maximum yield.
- You should not need chemical fertilizers and pest control to grow healthy crops (whenever possible)
- Potential harm to crops can be caught earlier, and with less impact to yield, through intensive imaging and analytics (24hr farming).
- You can prevent harm to, and improve the well-being of, livestock with fewer manual interventions through judicious monitoring and analytics.
- Local analytics can respond more quickly, and with less expense, than cloud-based analytics, especially in areas with little to no internet connectivity.

Key SIG Facts

SIG Creation Date: Initial proposal to set up Open Horizon Smart Agriculture SIG in [TSC 2020-12-08](#)

SIG Chair: Bill Rowley

Mailing List

- Smart Agriculture SIG mail alias: open-horizon-smartag-sig@lists.lfedge.org
- To subscribe or unsubscribe via the World Wide Web, visit: <https://lists.lfedge.org/g/open-horizon-smartag-sig>

Discussion Forum

- #open-horizon-smartag-sig on <https://chat.lfx.linuxfoundation.org/>, which requires a free LF ID.

Major Workstreams

Name	Lead /Organizer	Goal(s)	Tasks
SmartAg Foundation	r4ndomuser	Create a system to develop and deploy workloads that connect sensors from field to edge gateway to cloud	<ul style="list-style-type: none">• Milestone 1: Table Garden• Milestone 2: Outdoor single sensor• Milestone 3: Containerized ecosystem

Liquid Prep integration	playground	Connect Liquid Prep sensor to containerized workload deployed by Open Horizon and enable standardized data collection northbound and model deployment southbound for better decision support in small & large farmsteads.	<ul style="list-style-type: none"> Support A&M deployment Contribute to USDA grant proposal deploy sensors and collect data create and support plant data standards Build ML models using USD A SWAT data
OPEN projects	George & playground	Support OPEN's efforts to educate future farmers, integrate inexpensive technology into decision-making, improve crop yields, monitor local environments, and improve water banking by deploying and managing local analytics with Open Horizon to connect sensors, distribute data and models, and train future developers.	<ul style="list-style-type: none"> Projects running in Africa, haven't tied back to SmartAG processes yet. Sensors for their projects (SEED-based) are deployed and should be use cases for the SmartAG framework.
AgriRegio Projekt	Christian Wied	Promo video	
Open Horizon marketing website	Joe Pearson and Charlie Lindahl (CyberchuckTX)	Edit the marketing WordPress site to reflect information about SmartAg SIG	

Meeting Time

- Smart Agriculture SIG Meetings are open to the public, and are held weekly.
- Smart Agriculture SIG meetings are held Tuesdays at 10am PDT (find your local time [here](#))
- To subscribe to the meeting invitation, please visit [Community Meetings & Calendar](#): <https://lists.lfedge.org/g/open-horizon-smartag-sig/calendar>

LF Edge Working Group 2 is inviting you to a scheduled Zoom meeting.

Topic: Open Horizon SmartAg SIG weekly meeting
Time: Mar 30, 2021 10:00 AM Pacific Time (US and Canada)
Every week on Tue, until Mar 8, 2022, 50 occurrence(s)

Please download and import the following iCalendar (.ics) files to your calendar system.
Weekly: <https://zoom.us/j/96800319702?pwd=TmdxMXBuVFFWM0RCeklnenhkeY2UT09nzmFhajbndhLGdxNYUSfUGisUHbArJdzU>

Join Zoom Meeting
<https://zoom.us/j/96800319702?pwd=TmdxMXBuVFFWM0RCeklnenhkeY2UT09>

Meeting ID: 968 0031 9702
Passcode: 411386
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Dial by your location
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+1 312 626 6799 US (Chicago)
+1 929 205 6099 US (New York)
877 853 5247 US Toll-free
888 788 0099 US Toll-free
Meeting ID: 968 0031 9702
Passcode: 411386
Find your local number: <https://zoom.us/u/ab3U5VODJI>

Meeting Minutes

2022

- Jan 4 [Slides](#), [Recording](#), Presentation
- Jan 11 [Slides](#), [Recording](#)
- Jan 18 [Slides](#), [Recording](#)
- Mar 29: cancelled
- Apr 12: [Slides](#), [Recording](#)
- Apr 19: cancelled

2021

- March 30, 2021: [Slides](#), [Recording](#)
 - April 6, 2021: [Slides](#), [Recording](#)
 - Open positions were discussed
 - Agreed to conduct Design Thinking Workshop in April
 - Potential Use Cases were discussed
 - SIG growth and references to potential candidates to join
 - Open discussion
 - May 18, 2021: [Slides](#), [Recording](#)
 - [Joe Pearson](#) will f/u w/AgStack and report back
 - [Bill Rowley](#) showed [Kumantech soil moisture sensor](#)
 - [Joe Pearson](#) will get Trello and GitHub going
 - Brian will send project management templates
 - Next meeting we'll fill out a detailed project plan
 - August 3, 2021: [Slides](#), [Recording](#)
 - August 10, 2021: [Slides](#), [Recording](#)
 - August 17, 2021: [Slides](#), [Recording](#)
 - August 24, 2021: [Slides](#), [Recording](#)
 - August 31 2021: [Slides](#), [Recording](#)
 - September 7, 2021: [Slides](#), [Recording](#)
 - September 14, 2021: [Slides](#), [Recording](#)
 - September 21, 2021: [Slides](#), [Recording](#)
 - September 28, 2021: [Slides](#), [Recording](#)
 - October 5, 2021: [Slides](#), [Recording](#)
 - October 12, 2021: [Slides](#), [Recording](#)
 - October 19, 2021: [Slides](#), [Recording](#)
 - October 26, 2021: [Slides](#), [Recording](#)
 - November 2, 2021: [Slides](#), [Recording](#)
 - November 9, 2021: [Slides](#), [Recording](#)
 - November 16, 2021: [Slides](#), [Recording](#)
 - November 23, 2021: [Slides](#), [Recording](#)
 - November 30, 2021: [Slides](#), [Recording](#)
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Documents

- [Small Farm Use Case](#)
- [From Manual Inspection to Automated Distributed Multi-sensor Control](#)