Co-creating an industry standard for sharing agricultural data globally
Digital Green, Hewlett Packard Enterprise & Microsoft

Webinar and Moderated Discussion

Thursday, Aug 20, 2020, 09:00 AM- 10:45 AM EST
Co-creating an industry standard for sharing agricultural data globally
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**SPEAKERS**
- **Rikin Gandhi,** Co-Founder & Executive Director, Digital Green
- **Lin Nease,** Chief Technologist, IoT - Enterprise Group, Hewlett Packard Enterprise
- **Ranveer Chandra,** Chief Scientist, Microsoft Azure Global

**CHAIR**
- **Parmesh Shah,** Global Lead for Data-Driven Digital Agriculture, World Bank Group

**DISCUSSANTS**
- **Mr. Collis,** Sr. Program Officer, Digital Agricultural Solutions, Bill & Melinda Gates Foundation
- **Laura Ralston,** Sr. Economist, Agriculture & Food Global Practice, World Bank Group
SMALLHOLDER FARMERS

- 6,000 videos
- 50 languages
- 57m views on YouTube
- 1.2 m screenings
- 2.3m (75% women) farmers reached
- 54% adoption rate
- 46% yield increase
1. Securely share data on their own terms
2. Access farmer feedback and other data
3. Develop refined solutions for farmers

Organizations in Ag ecosystem
1. Securely share data on their own terms

2. Access farmer feedback and other data

3. Develop refined solutions for farmers

Organizations in Ag ecosystem

1. Access customized services

2. Control their own data

Share data/feedback
Securely share data on their own terms

Access farmer feedback and other data

Develop refined solutions for farmers

Organizations in Ag ecosystem

Access customized services

Control their own data

Share data/feedback

FarmStack
Partner Requirements

Trust

Only intended parties are able to see/use data

Security

User defined policy based access - intended purpose and time

Discovery

Catalog of who has what data and data transformation services
Peer-to-peer data security connectors (P2P connectors) allow data to be shared directly across data owners and users based on decentralized usage policies, without involvement of any third-party.

Data transformation services clean and convert data to third party reference data models by filtering and anonymization.

Data discovery services to allow anyone publish or search data. Tools to annotate & describe data sets.
FarmStack Architecture

Org A
Data provider
configured usage policy

Third-Party
Data Model Services
(e.g., AGROVOC)

Discovery
Services
Catalog

Usage policy

Org B
Data consumer
constrained by usage policy

P2P Connector

IT
DB
IoT

P2P Connector

DB
FarmStack Vision

Country-Level Technical Working Group
Third party data models, annotation services
Code repository, update tools

Data discovery services

Data transformation services

Data security & usage policy connectors

Public cloud
P2P connector
Private cloud
P2P connector
Data centers
P2P connector
Device storage

Public organizations

Private organizations

Civil society organizations

Farmers
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FarmStack

Thank You!

Reach out: rikin@digitalgreen.org
Next steps

• This is the first in a series of webinars on data standards & sharing

• If interested in collaborating please share your contact information & areas of interest: surveymonkey.com/r/datasharing

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