

Data/Mapping Working Group

Work to date

Questions to consider

- a. What data is available?
- b. What is the definition of coverage or parameters in which it is collected?
- c. Do the maps allow us to identify areas that are under served or not covered at this time?
- d. What recommendation/s would we make to the task force related to item one of charge?

Topics Reviewed

- Ag land mapping current state
- FCC 477 data
- Ways to ground truth actual connectivity/ availability
- What do producers say they need

Presentations to our working group

- USDA NASS crop land data (Rick Mueller)
- FCC 477 (Steven Rosenberg)
- Yolo County California pilot project to test speed and availability (Joy Sterling)
- John Deere mapping coverage on crop acres in pilot effort(Mark Lewellen)
- Using machine learning to validate coverage (James Stigeman, Mike Wilson, Cost Quest)
- Meta Link Technologies (Todd Harpest)

Presentation to the working group

- Use of Precision Ag on 10,000 acres Kansas farm(Matt Splitter)
- Sensor based approach on ag land to validate connectivity Garland McCoy
- RUS maps using NASS as base layer for rural development projects
- Use of precision ag on 3000 acre Minnesota farm(Miles Kuschel, Rocking K Ranch)
- Use of precision ag in Blackfeet Country(Dan Barcus, Loren Bird Rattler, Michael Vogt)

Presentation to the working group

- Sub group work
 - Google and Microsoft data on connectivity (Seth Arndorfer)
 - Large tower locations FAA (Todd Harpest)
 - Native lands Ag land representation in Nass database and connectivity availability (Dan Barcus, Sreekala Bajwa)

What we believe

- Depart of Ag crop land data base is solid place to start for identify needed coverage areas.
- The currently FCC 477 database does not reflect coverage in Ag production areas.

Early Recommendations

- a. Some type of ground truthing process that is public and uses a consensus-based approach is needed
- b. A federal task force that works on sharing data among agencies related aspects coverage map(NTIA, FCC, BLM, FAA, BIA, DOD, FAA)
- c. A federal data cookbook is developed that defines the common variables among agencies and available to the public.

Early Recommendations

a. Native lands need a special look to make sure the reflect in the FCC and department of Ag data

Early Recommendations

- a. Farmers and ranchers using precision ag need to have significant connectivity at the operation's main location.
- b. Some ag operation will need connectivity across their agricultural operations.