Bringing broadband to agriculture driven communities enables precision agriculture; improving efficiencies and empowering farmers to make better production decisions.

**THE FUTURE OF AGRICULTURE DEMANDS TECHNOLOGY**

Since 1948, the amount of land and labor in U.S. farms has declined, yet total farm output has increased by 200%.

Net farm income for 2019 was projected by USDA to reach $69.4 billion, an increase of 10% from 2018.

Precision allows for the critical data collection and analysis needed to maximize livestock and crop production margins.

**CASE STUDY**

**PREMIER COMMUNICATIONS**
Sioux Center, IA (pop. 9,000)

Broadband-powered cameras enable livestock producers to monitor livestock through live video feeds. At the same time, advanced alarm systems issue mobile and email alerts. Broadband-enabled sensors in feeding bins can measure and dispense the exact amount of feed. Other broadband-enabled sensors in the soil monitor soil condition and track rainfall, enabling farmers to calibrate planting and create a mapping database of crop harvest by the acre.

**GREEN HILLS COMMUNICATIONS**
Breckenridge, MO (pop. 3,300)

A special fiber build connects a Union Pacific railway loading point accessible to farmers in North Central Missouri and Southern Iowa. Corn and grain are moved, stored, and delivered with advanced broadband-enabled logistics. Automated scanning and weighing systems allow an average load to be delivered in less than 10 minutes. The connected facility can load nearly 400,000 bushels into a 110-railcar train in less than eight hours.