

# TUNE into TECHNOLOGY



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**TECHNOLOGY** gives soybean farmers opportunities to maximize on-farm productivity, efficiency and sustainability. But with the fast pace of new technology, farmers face barriers to adoption. The Soy Checkoff invests in projects to help farmers capture the value of ag technology.

## A SCORE OF OPPORTUNITIES

Many ag tech options available today are already generating benefits:

- **AUTOMATION** of tractors, planters and combines reduces guesswork and manpower.
- **PRECISION AG TOOLS** using GPS produce data and maps to accurately measure yield, identify plant stressor and spot crop losses.
- **AERIAL IMAGERY** via satellites and drones monitor plant health, moisture needs and more.
- **SENSORS** gauge crop stress and soil moisture levels and improve irrigation efficiency.

## INNOVATION CRESCENDO

- Accessible data helps track inputs, products and processes more adequately.
- Natural fertilizers that contain living microbes enhance plant nutrition by mobilizing or increasing nutrient availability in soil and help stimulate plant growth. Biofertilizers also reduce the need for synthetic fertilizers and pesticides.
- Supply chain advancements mean farmers can share production decisions, inputs and quality with customers to verify production and certify sustainability.
- Regenerative farming practices replenish and sustain soil health for the long term.
- On-farm technologies and tools provide unbiased assessments of what is best suited for individual farms and corresponding data to make continuous improvements.



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