Midwestern Pivot+ Array for Autonomous Agricultural Sensing and Control at Scale

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The Proposed Instrument: Pivot+

Commercially available irrigation system upgraded as a moveable platform for:
- Sensing: soil, water, plant, micro-climate, robotic scouting and tissue sampling
- Actuation: water, fertilizer, crop protection, spot tillage or weeding
The land below equipped with a dense drainage tile system instrumented for water and soil sensing, drainage control, underground comm.