



Proposal at a Glance

Digital Agriculture

- Develop 3 Ag IoT Testbeds
 - Purdue ABE
 - Purdue ACRE Farm
 - Ivy Tech-Lafayette Teaching Lab
- Develop curriculum for Digital Ag and deploy in 10 counties
- Engage Ag producers and Ag business in 10 counties
 - Use IoT to test production
- “Career Ready” Certificates in Digital Ag (Undergrad and Grads)
- Advance adoption and application of digital ag innovations by producers and ag businesses in region

Next-Generation Manufacturing

- Develop manufacturing testbeds (DMET)
 - Demo site at Michael Golden Labs/Indiana Manufacturing Institute
 - Technology integrated into regional production facilities/trans logistics
- Enable real-time analytics of manufacturing processes and delivery systems
- Develop digital supply chain network model for participating manufacturers
- Develop manufacturing “IoT Testbed” within Ivy Tech’s existing regional campuses
- Develop content to increase regional employees’ productivity using smart, IoT-empowered tools

Cultivation Fund

- Implement RFP with \$10 million that will fund place-making impact grants for projects that increase:
 - Education
 - Vitality
 - Connectivity
- Successful regional proposals will receive priority points for 1) collaboration between two or more counties, and 2) demonstrating an IOT focus. An example of a viable cultivation fund project would be embedding sensors along the Wabash River to measure water quality (touches five counties using IOT).

Sensor Development and Implementation / Extending Regional Connections

- Birck Nanotechnology to develop and implement what will power the above objectives.
- Implement an RFP process with \$5.2M fund advancing collaborative activities based on education / scientific value.
- Introduce and implement I-STEM into 26 elementary schools and Project Lead the Way into 22 middle school / high schools.