

CP Foods Innovation Challenge

True Digital Park, September 14-17



#1: Temperature Monitoring

How can we more efficiently detect changes in product as it moves between stages of the production process?

We need a solution which can:

- Accurately scan core temp as product moves along a conveyor, considering varying shapes and cuts of meat
- Quickly and precisely detect temperature readings outside of a designated range
- Inform other parts of the system which need adjustment when a problem is detected

#2: Algae Cultivation

How can we separate non-harmful algae from the water?

We need a solution which can:

- Remove non-harmful **Geosmin** and **2-Methyl-Isoborneol** algae from the water

#3: Smart Farm Robotics

As humans are the most common source of diseases to our livestock, how can we reduce the number of human operators going into the chicken coops?

We need a solution which can:

Replace humans to perform the following tasks (not limited to):

- Testing and maintaining equipment
- Testing for diseases in chickens, removing deceased
- Scraping the floor to remove solidified husk
- Conducting processes to reduce NH3

#4: Logistics & Supply Chain

How can we optimize the order, fulfilment and delivery process of the animal feed we sell, ensuring we can reach even small farmers whose order size does not fill a full truck?

We need a solution which can:

- Allow to order products without volume limitation
- Ensure our fulfilment and delivery systems are operating at optimal efficiency