# Food & Beverage

## Air Quality and Odour Monitoring Approach & Solutions

The food processing industry uses a wide range of methods in the preparation, cooking, and packaging of their products. Each releases an array of particulates and odours into the atmosphere.

**Stationary Equipment** provide continuous monitoring of indoor and outdoor air quality in and around your facility, providing valuable data on the overall level and distribution of pollution.

**Odour Patrol** offers an additional layer of monitoring by providing more granular data on the spatial and temporal patterns of air pollution.



**Sensitive Receptor**
Local Hotel

**Sensitive Receptor**
Shopping Center

**Sensitive Receptor**
Fire Department

**Sensitive Receptor**
Local School

**Odor Complaints**
Nearby Residential Plaza

Cheese Factory
**Odor Event Processes**
Coagulation

Cheese Factory
**Known Odor Source**
Ripening

Cheese Factory
**Odor Event Processes**
Pasteurization

**Unknown Odor Source**
Recycling Center

Cheese Factory
**Odor Event Processes**
Stirring and Cooking

Cheese Factory
**Odor Event Processes**
Milling

**Ambient Air Monitor**
CTmini

**Ambient Air Monitor**
CTmini

*AI POWERED*
## SIMS3

**Air Dispersion Modeling** Mathematical simulation of how air pollutants disperse in the ambient atmosphere and performed with a computer simulation of a pollutant dispersion model.

### Sensitive Receptors

Track your sensitive receptors, and view the direct effects an emission source may have on them, down to the odour unit per second value!

### Tracking Unknown Emission Sources

Using 'Event Triangulation', our SIMS3 platform can pinpoint the location of potential unknown sources. Determine the source of each complaint with this module!

### Monitoring Device Perimeter

A typical food & beverage production requires approximately 4-6 air quality monitoring devices strategically stationed around the facility perimeter based on collected data.

### Odor Event Processes

Several facility processess may be directly contributing to errant odours. Use SIMS3 to track the correlation between ambient air pollution and several processes.

### Tracking Known Emission Sources

Several facility processess may be directly contributing to errant odours. Use SIMS3 to track the correlation between ambient air pollution and several processes.

### Odor Complaints

Once odour complaints are filed, SIMS3 will collect them and present them in a visual, mappable format. SIMS3 will also analyze the contributor of the source that led to the complaint.