In order to improve productivity and to reduce costs of farm work, we are developing fault detection techniques for agricultural machinery by NTT’s big data analyzing methods such as NMTF (Non-Negative Multiple Tensor Factorization), online machine learning, and others. We are also creating new value by using big data in the water and environmental infrastructure field.

### Features
- Analyzing data from multiple sensors makes it possible to detect 'unusual' behaviors in real time.
- Even if the abnormal level of each sensor is low, our techniques can comprehensively detect abnormal status.
- Tracking subtle behavioral changes due to age-related deterioration enables abnormal values to be detected from recent behavior.

### Application Scenarios
- In order to improve the quality and productivity of crops, you can apply watering and fertilizer based on the result of combined analysis of various data.
- You can Improve utilization rates and reduce maintenance costs by detecting faults such as those occurring in tractors and water/environmental infrastructure equipment.

### Collaboration Partner
KUBOTA Corporation