

Sensor-net Plant Factory

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Abstract

- ◆ Proposal of new energy-saving plant factory that applied sensor network
- ◆ System evaluation of plant factory by energy conservation experiment

Research Outline

- (1) Development of sensor network suitable for plant factory
- (2) Experiment with test bed at plant factory
- (3) Verification by cultivation experiment (energy conservation, quality vegetables)
- (4) Proposal of MEMS sensor suitable for plant factory

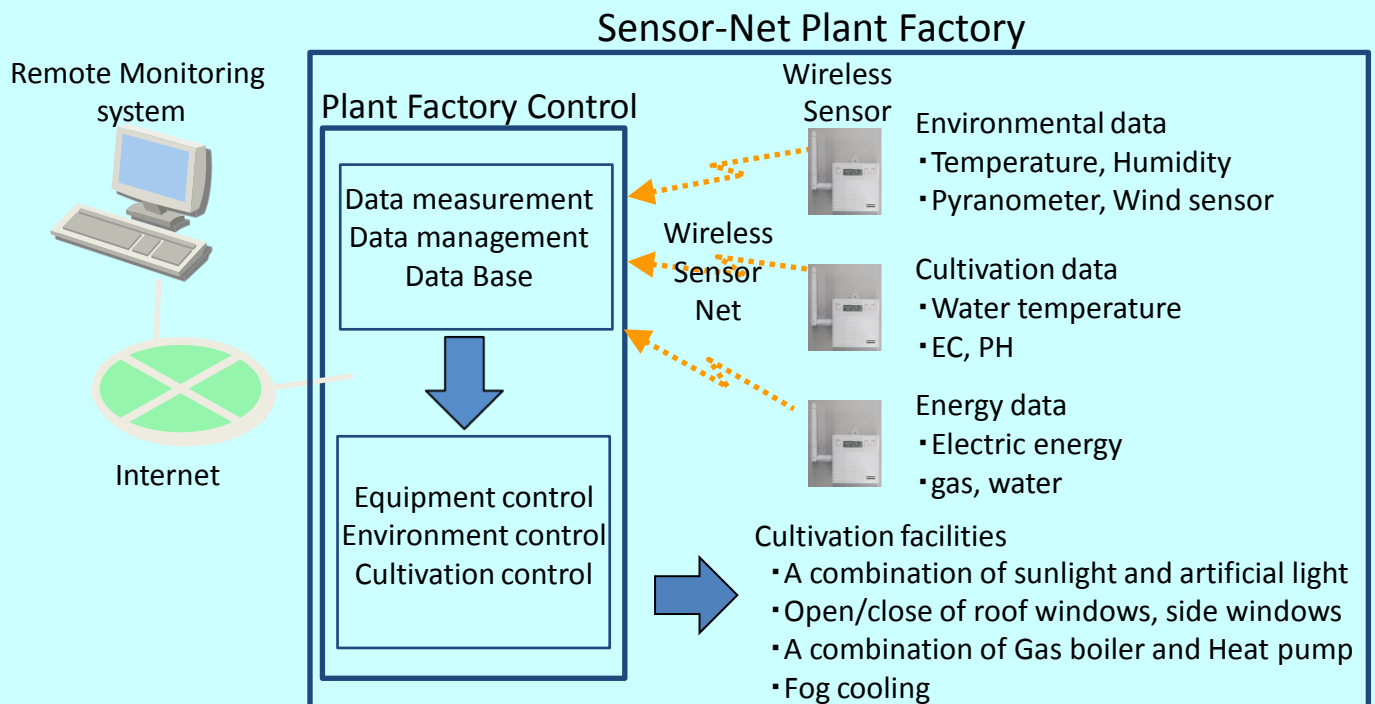


Fig. 1. Sensor-net Plant Factory System

Research Target

Sensor-Net Plant Factory in the future

- Optimized energy control
- Measurement by three dimension space
- The growth environment of the plant is measured one by one
- Low cost and small sensors by MEMS technology



Fig. 2. Photo at Plant Factory