

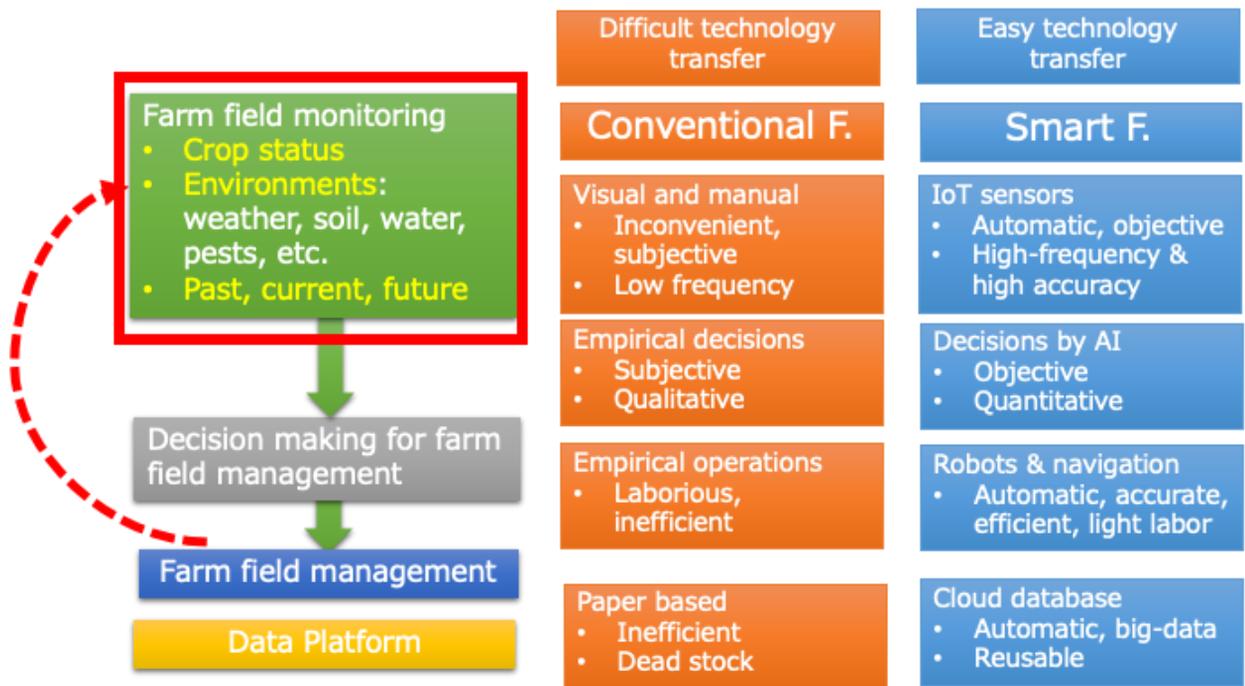
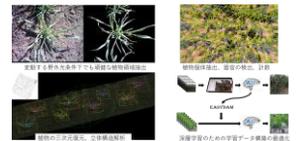
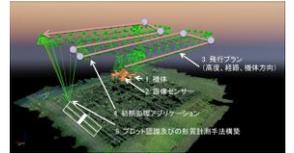
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Department of Agricultural and Environmental Biology



Research Topics

- Development of field Sensing techniques and facilities. (Applied research)
 - IOT, Robotics, UAVs
- Development of phenotyping algorithms and applications. (Basic + Applied research)
 - Crop growth monitoring
 - Crop organ detection
 - Crop/tree 3D reconstruction and analyzing
- Development of phenotyping Pipeline, System, prototype. (Experimental development)
 - Collaboration with Local government/institute
 - Collaboration with Private Company
 - Startup projects



Research goals

We are developing algorithms and applications for high throughput and high precision evaluation of the growth and performance of organisms from the cellular level to the population level, using image pattern recognition, machine learning, and sensing technologies. We will also contribute to accelerating the social implementation of such new technologies in actual agricultural fields.