

February 9, 2026 (TOKYO, Japan)

OPTiM Corporation  
(TSE: 3694)

## Launch of Nationwide Drone-Based Shading and Heat-Reduction Coating DX Service for Agricultural Greenhouses, Livestock Facilities, and Factories

Enhancing Summer Heat Countermeasures with Safe and Efficient Operations to Support Production Sites Across Japan

OPTiM Corporation (hereinafter OPTiM), the market leader in AI, IoT, and Big Data platforms, will begin full-scale nationwide deployment of the Drone Shading and Heat-Reduction Coating DX Service for production sites such as agricultural greenhouses, livestock facilities, factories, and work sites. The Drone Shading and Heat-Reduction Coating DX Service provides comprehensive digital management of drone operations, digital mapping, pilot management, and application-to-billing processes within a single digital platform. By using drones for coating application, the service enables highly safe, efficient, and uniform application without the need for scaffolding. It supports summer heat countermeasures at production sites across Japan, contributing to stable agricultural product quality and yield improvement.



## ■Background

In recent years, high summer temperatures nationwide have caused physiological disorders in horticultural crops and livestock products, resulting in significant production loss. Applying shading and heat-reduction coatings has become one of the key countermeasures for securing stable yields. Additionally, starting June 1, 2025, amendments to the Industrial Safety and Health Regulations have made workplace heatstroke prevention mandatory, drawing further attention to countermeasures for workers inside facilities.

Shading and heat-reduction coatings work by being applied to facility rooftops, reflecting sunlight and suppressing temperature rise inside the facility. However, applying these coatings often presents challenges due to facility structures, such as difficulty applying from the ground because of high roofs, safety concerns about climbing onto roofs, and the need to quickly cover large roof areas.

To address these issues, OPTiM began trial provision of drone-based shading and heat-reduction coating services in June 2025. Through these trials, OPTiM confirmed strong on-site effectiveness and demand. Based on these results, OPTiM has now launched nationwide provision of the Drone Shading and Heat-Reduction Coating DX Service, utilizing the pilot resources of the company's nationwide Pinpoint Time Spraying Service.

## ■Overview of the Drone Shading and Heat-Reduction Coating DX Service

The Drone Shading and Heat-Reduction Coating DX Service uses drones to apply shading, heat-reduction, and removal agents to the roofs of agricultural greenhouses, livestock facilities, factories, and work sites. It also provides a digital platform for drone operation management, digital mapping, pilot management, and end-to-end workflow from application to billing. By applying shading and heat-reduction coatings, the service helps prevent temperature increases inside facilities.

## ワンストップで実現する デジタルプラットフォーム



ドローン運航管理



デジタル地図管理



パイロット管理



お申し込みや請求管理

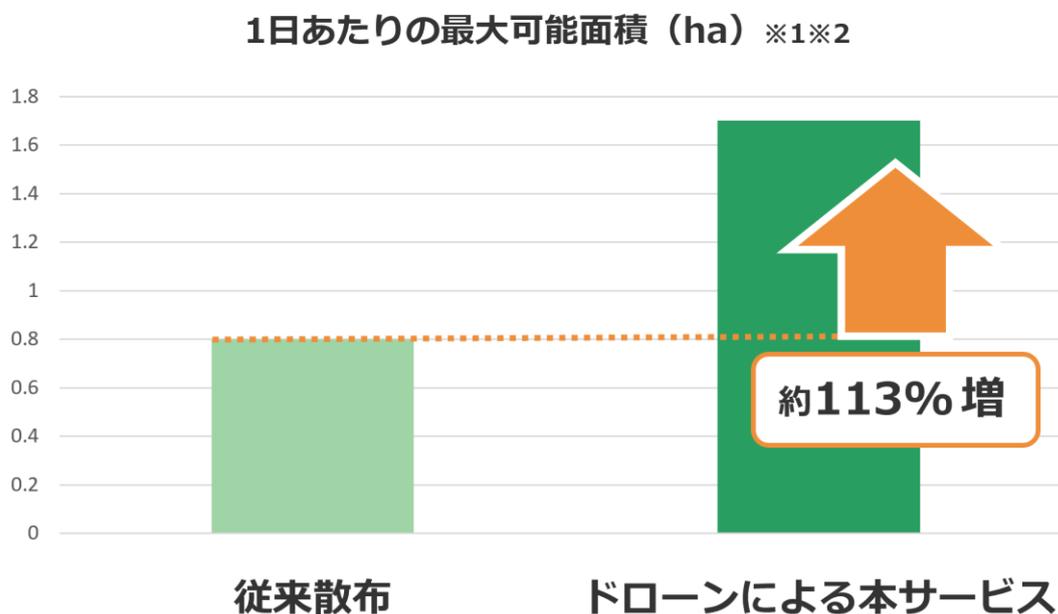


## ◆Service Features

- ① Safe application without the need for scaffolding or climbing onto greenhouse roofs
- ② Efficient and uniform application using atomizer-type drones with automated flight
- ③ Numerous skilled drone pilots nationwide with extensive experience in pesticide spraying

## ◆Operational Efficiency Benchmark: Power Sprayers vs. Drone-Based Application

Drone-based application is approximately 2.1 times more efficient than conventional power sprayer application<sup>\*1\*2</sup>. With the Drone Shading and Heat-Reduction Coating DX Service, up to 1–2 ha can be coated per day.



※1 2025年6月時点、オプティムの散布実績を基にオプティムにて算出

※2 散布する資材によって希釈倍率・総投下液量・1日あたり最大可能面積は異なります。

## ■ Case Studies

### ◆ Case 1: Agricultural greenhouse (tomato) in Kanagawa Prefecture

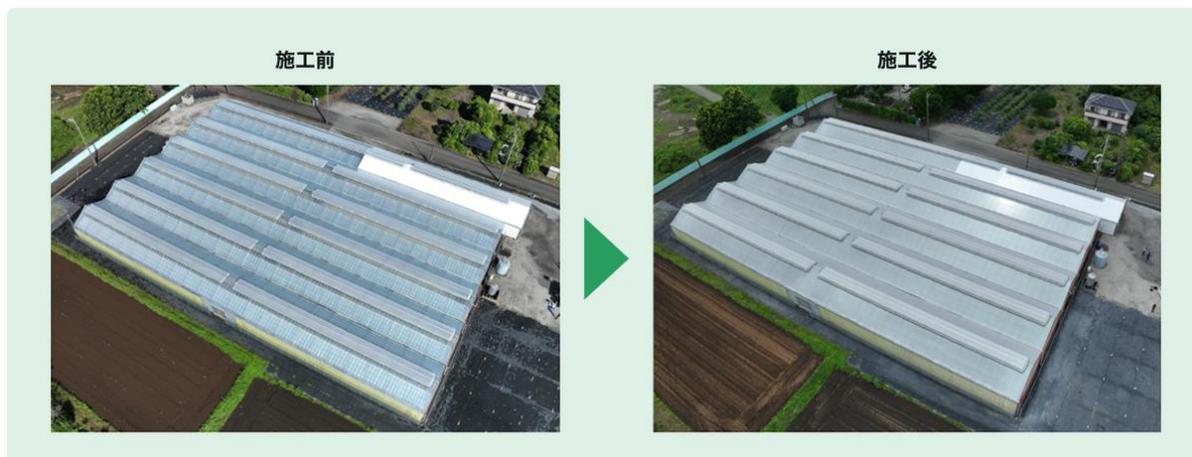
事例1

農業用温室

## 神奈川県農業用温室

施工面積：3,000㎡

生産対象：トマト



### ◆ Case 2: Agricultural greenhouse (tomato) in Miyagi Prefecture

事例2

農業用温室

## 宮城県農業用温室

施工面積：26,000㎡

生産対象：トマト



## ◆Case 3: Livestock facility (poultry house) in Gunma Prefecture



### ■Details of the Drone Shading and Heat-Reduction Coating DX Service

For more information on the Drone Shading and Heat-Reduction Coating DX Service, visit:

<https://www.optim.co.jp/agriculture/services/shading-agent-spray/>

### ■Partner Recruitment for the Drone Shading and Heat-Reduction Coating DX Service

OPTiM is recruiting partner companies to support nationwide expansion of the Drone Shading and Heat-Reduction Coating DX Service.

### ◆Examples of Ideal Partner Companies

- Companies already handling shading or heat-reduction coatings and wishing to offer bundled Drone-based application services
- Companies aiming to develop new customers
- Companies seeking to introduce this service as a new solution aligned with customer needs, strengthening relationships with existing clients while creating new revenue opportunities

For inquiries, please visit the following website:

<https://www.optim.co.jp/contact/pts>

### ■Overview of the Pinpoint Time Spraying Service

This is Japan's first<sup>\*3</sup> drone-based spraying DX service covering a wide range of crops. In addition to conventional unmanned helicopter spraying operations, the service digitalizes the entire spraying process.

By utilizing this platform, network, and extensive experience, the Drone Shading and Heat-Reduction Coating DX Service is able to provide high-quality and rapid deployment nationwide.

For details of the Pinpoint Time Spraying Service, please visit the website below:

<https://www.optim.co.jp/agriculture/services/pts/>

## ■ Recruitment of Drone Pilots

OPTiM is recruiting drone pilots to engage in agricultural pesticide spraying operations.

For details on the Drone Pesticide Spraying Job Introduction Service, please visit the following website:

<https://www.optim.co.jp/agriculture/services/pilots/>

## ■ About OPTiM Smart Agriculture Services 2026

From February 9 to March 6, 2026, OPTiM will host OPTiM Smart Agriculture Services 2026 online, introducing the Drone Shading and Heat-Reduction Coating DX Service and OPTiM's broader DX and AX strategies expanding across all agricultural tasks.

For more details, please visit the following website:

<https://www.optim.co.jp/event/agri-presentation-2026>

※1 Calculated by OPTiM based on spraying performance as of June 2025.

※2 Dilution ratios, total spray volume, and maximum daily coverage area vary depending on the coating material used.

※3 As of January 22, 2025, according to OPTiM's research.

## ■ About OPTiM Corporation

OPTiM is a leader in internet-based services that improve its clients' interactions with technology in all aspects of everyday life. Its solutions provide comprehensive IoT management and multifunctional remote communication. Its business partners include NTT East, NTT West, NTT DOCOMO, OTSUKA, SoftBank, Canon Marketing Japan, Panasonic Solution Technology, Ricoh Japan, KDDI and Fujifilm Business Innovation Japan. Based in Tokyo, Japan, its corporate motto is, "We make the net as simple as breathing."

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