



SPICEUP



INFORMATION SERVICES FOR PEPPER FARMERS IN INDONESIA

SpiceUp will implement a financially sustainable information service that supports 100,000 pepper farmers in Indonesia to increase their production, income, food security, and optimize their inputs of water, fertilizers and pesticides.

BACKGROUND

Pepper is a smallholder estate crop and a labour-intensive commodity that is mainly cultivated in Lampung for black pepper, and Bangka Belitung and Kalimantan for white pepper. Pepper is also cultivated in Sulawesi, Java and other areas in Sumatra.

In the past, Indonesia was the leading producer and exporter of black and white pepper in the world; however, in recent years, Indonesia has lost its leading position to Vietnam. Many factors have contributed to the decline in production. For example, instability of price, climate change and pepper farmer's lack of knowledge on Good Agricultural Practices, resulting in low productivity, plant diseases, lack of quality seeds and difficulties with water supply. Educating pepper farmers on these issues is crucial to ensure farmers are able to gain a sustainable income from pepper farming.

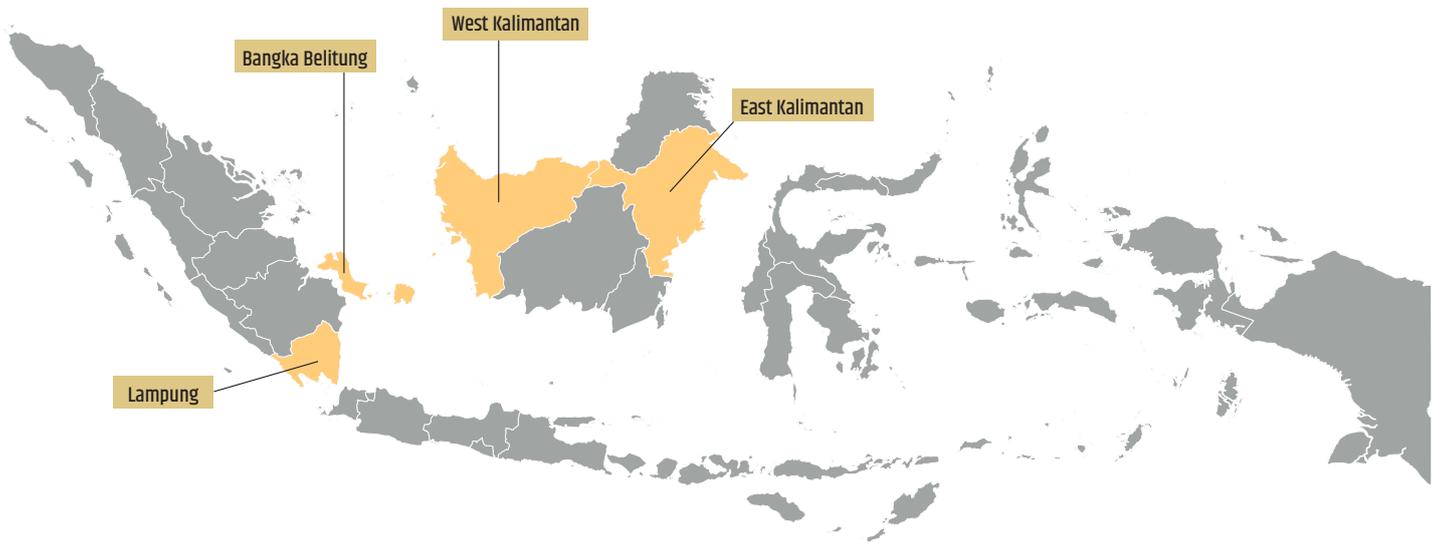
TARGET USER GROUP AND LOCATION

SpiceUp will target two groups: pepper farmers and business-to-business (B2B) clients, and focuses on three locations in Lampung, Bangka Belitung and Kalimantan. Of the reported 218,000 pepper farmers in these locations, SpiceUp aims to reach 100,000 farmers to become SpiceUp information service subscribers within three years.

INFORMATION SERVICES

Four information services will be provided via various channels including SMS and Mobile App. These services include:

- *Water Management Advice:* This advice will guide farmers if, for example, irrigation is needed for this phase of the crop



Map of SpiceUp project areas

cycle or if they can rely on the forecasted rainfall.

- **Fertilizer Advice:** Recommendations on type and amount of fertilizer based on soil analysis and pepper variety.
- **Good Agricultural Practices (GAP):** Customized advice on how to cultivate peppers, including how to prepare their land and how to effectively apply pesticides.
- **Sustainability Tracing System:** This system allows for the registration and tracing of pepper produced by farmers in the project locations, including sustainability information at plot level.

PARTNERSHIP

The SpiceUp consortium consists of eight public and private organisations:

Verstegen Spices and Sauces BV

Verstegen is the lead organisation in SpiceUp. As pepper experts, they will guide the consortium's work and will be the eventual business owner when the project ends.

ICCO Cooperation

ICCO supports project implementation in-country and will lead the consortium in the project monitoring and evaluation.

Nelen & Schuurmans (N&S)

N&S guides the consortium in providing functionality to collect data from several sources and the translation of the data into new useful information for SMS and mobile App.

VanderSat

VanderSat will provide high-resolution satellite imagery and satellite data processing technology. They will work with IPB to provide accurate weather information and soil moisture data analysis.

Institut Pertanian Bogor - Bogor Agricultural Institute (IPB)

IPB will provide soil nutrient maps and together with Vandersat, will provide accurate weather information.

Akvo

The Akvo-FLOW tool supports the consortium in field data collection from farmers, as well as monitoring and evaluation.

PT. Cinquer Agro Nusantara (PT CAN)

PT. CAN will lead the farmer training program in GAP and set up demo plots and farms. They have representatives in all project areas ensuring good cooperation with farmers.

Balitro

Balitro will provide trainers for GAP trainings and provide guidance for developing GAP in pepper farming.

PARTNERS



SUPPORTED BY



➤ MORE INFORMATION

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