

THAILAND INSTITUTE OF SCIENTIFIC AND
TECHNOLOGICAL RESEARCH

By

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Thailand Institute of Scientific and Technological Research (TISTR), a state enterprise under the Ministry of Science and Technology (MOST), considers research and innovation in totality, with backward (raw materials) and forward (market needs such as food, shelter, clothing, energy, etc.) linkages.

TISTR has several strengths. In terms of 'hardware', it has the Microbiological Resource Centre (MIRCEN), the Biosphere Reserve, a materials testing and calibration centre that is a certifying body for international standards, an Animal House for clinical tests and a Packaging Centre. In terms of 'software', TISTR has the services of Pharmacists Team, Agriculture Team, Food Processing Team, Materials Science Team, Renewable Energy Team, Environmental Team and Engineering Team.

TISTR collaborates with universities, international and national research institutes, local authorities, the industry, industry associations, communities and farmers in its activities. The overall goals of its activities are to improve Thailand's self-reliance and to contribute towards the country's sustainable development. Therefore, a good part of TISTR's research activities focuses on the basic necessities: food, energy and building materials.

Public-private partnerships (PPP) that TISTR pursues could be for problem solving (such as new type of packaging for longer shelf-life of food products or machine for removing water hyacinth from rivers to facilitate navigation), increasing production (such as of germinated brown rice drinks, skincare products from mushroom, etc.), or developing a new idea into a product (such as biodiesel from *Jatropha* and waste cooking oil, biofuel from algae, ultrasonic sewing machine, etc.).