

SCIENCE IS UNIVERSAL, BUT FOOD SOLUTIONS MUST BE LOCAL

Although science provides answers that can be applied universally, DuPont's experience shows that solutions must be found at the local level to help people improve their lives and livelihoods.

DuPont Pioneer EncircaSM Services

As farming operations become more complex and data intensive, growers increasingly need tools that enable them to take advantage of all the information available. With that challenge in mind, DuPont Pioneer developed EncircaSM, a suite of farm management services designed to provide growers with timely and actionable insights to maximize productivity and profitability. The services include applications for mobile devices that allow growers to scan a seed tag and indicate their planter type to maximize planter performance and seed drop accuracy, or to monitor their fields in real-time for precipitation and growth stage development.

Customized Food Safety Solutions

The DuPontTM BAX[®] System, created by DuPont Nutrition & Health, is used around the world to identify bacterial contamination in food at the genetic level. Because standards and regulations for pathogen detection can vary from country to country, DuPont may develop customized solutions for local needs. For example, U.S. regulations mandate that food products must be free of listeria bacteria, so the BAX[®] System tests for its presence or absence. In the European Union, however, a threshold for listeria bacteria has been established in certain foods that do not offer a medium for growth, so DuPont developed an alternative protocol to detect listeria bacteria above or below the allowable thresholds.

Addressing Malnutrition in Mexico

The Tarahumera people, a Native American tribe who live in a remote area of the state of Chihuahua, Mexico, have suffered declining water supplies for years, resulting in crop loss, malnutrition and hunger. When a local company wanted to provide the Tarahumera people with supplies of milk to help meet their nutritional needs, it sought a solution that would allow the milk to be preserved for up to 12 months without refrigeration in a package that would withstand the long overland journey. DuPont Packaging & Industrial Polymers partnered with a local manufacturer to provide DuPont Surlyn[®] resin as a sealant for a dual-chamber package design that separated purified water and powdered milk, allowing them to be easily combined when ready to be consumed. This collaborative effort has helped provide valuable nutritional assistance to a population enduring difficult local conditions.

Best Off-Patent Crop Protection Innovation

The Agrow Awards were developed to recognize excellence in the crop protection and production industry. DuPont received this award for the development of an herbicide dispensing system that offers growers customized weed control. The system replaces standard rigid plastic jugs. Used in the United States and Canada, DuPontTM PrecisionPacTM dispenses the exact amount of product or product mixture customized for the size of the farmer's field or sprayer load. This enables farmers to respond to rapidly changing weed control needs.

Welcome to the Global Collaboratory.TM Together we can feed the world.

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