

THERE'S A SCIENCE TO FEEDING THE WORLD AND ENSURING FOOD SECURITY

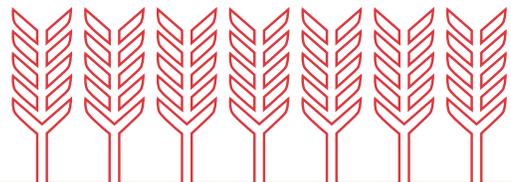
The world continues to face the unprecedented challenge of feeding a global population that will exceed 9 billion by 2050. The Food and Agriculture Organization of the United Nations (FAO) projects that farmers will need to nearly double the world's total food production to meet the growing demand. Most of these gains will need to be made by the 500 million smallholder farmers who produce much of the agricultural output in developing countries, and they will need to do so with less arable land and water. We must also address the crisis of food waste. Each year, one third of the food produced globally is wasted. Near term gains in food security may start with securing the food already produced.

Overcoming the threats to our global food supply requires taking scientific innovation well beyond the lab. It means taking innovation into fields and local communities, especially in developing economies such as Sub-Saharan Africa and South and Southeast Asia where the majority of the chronically malnourished population live. DuPont businesses – DuPont Pioneer, Crop Protection, Nutrition and Health, Packaging & Industrial Polymers, and Industrial Biosciences – are working together and are committed to making food more nutritious, safer and available to people everywhere.

Our approach to delivering science-based innovation is built upon four pillars:

- **SCIENCE IS UNIVERSAL, BUT FOOD SECURITY SOLUTIONS MUST BE LOCAL: Innovative solutions should be driven by the needs of those whose lives we are trying to improve.** Farmers need access to world-class science, technology and tools that will improve productivity, profitability and farm management. Solutions must start with local needs, whether it's an Indonesian farmer who needs a corn hybrid adapted to his local growing conditions or a Kenyan girl who is going blind because she does not have enough Vitamin A in her diet.
- **COLLABORATION UNLOCKS THE ANSWERS SCIENCE PROVIDES: Solutions must be collaborative—reached in concert with communities, governments, NGOs and farmers** who know the “facts on the ground” and with global businesses who have the specialized expertise or resources to help solve particular problems. In short, collaboration must have no limits, for answers are everywhere.
- **SCIENCE MUST BECOME LOCAL WISDOM: Know-how must be brought to the people and places that need it most,** working side-by-side with all involved to share knowledge with farmers and communities who can use it to secure their futures. Sharing technology with farmers means more than just agronomic information or products; it means providing access to market information, communications technology, financing and crop storage.
- **SOLUTIONS MUST BE SUSTAINABLE IN THE BROADEST SENSE OF THE WORD.** Solutions for food security should consider environmental, economic, political and cultural factors. This means making the required investments in infrastructure, technology, and community development. And, it means empowering women, who make up the majority of smallholder farmers, and educating and inspiring young people to be future farmers and nutritionists.

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



DuPont and its collaborators are working to create solutions to the challenges of food security. Increasing food quantity, improving food quality, and reducing food waste will make a significant impact on people's lives and livelihoods. Our consistent presence along the food value chain allows us to holistically address the complex set of issues and vulnerabilities – country by country – that together define food security.

Looking Ahead

The world has made continuous progress towards eradicating extreme hunger and poverty. Developing countries have nearly halved the proportion of those suffering from hunger. Scientific innovations have succeeded in significantly enhancing the quality and quantity of food production. Innovations include maximizing the productivity potential of seeds – even in harsh conditions; keeping crops pest and disease free; enhancing the nutritional value of staple foods; and reducing waste by keeping food fresher longer. And, business, governments and NGOs have collaborated to help farmers, particularly smallholder farmers, gain access to the right tools – from the most basic local practices to the most advanced technologies to connect farmers to markets.

Nonetheless, we cannot ignore the significant challenges that remain. Dupont is committed to these actions to accelerate progress locally on food and nutrition security:

- Unleash innovation to produce more nutritious food;
- Develop ways to make food more accessible and affordable;
- Improve trade policy to better enable the free flow of food from where it can best be produced to where it is most needed;
- Address food waste crisis by improving agriculture and food systems, extending freshness and diet diversification;
- Develop strategies for tackling undernourishment as well as over consumption of empty calories;
- Improve linkages along food and agriculture value chain and invite other sectors to the table; and
- Help make food and agriculture economically viable professions and encourage youth to choose these livelihoods.

Solutions to the challenges of achieving worldwide food security are built on today's successes. However, no one company, country or non-profit organization can meet these challenges alone. Each of us can commit to doing our part and holding ourselves accountable to make a meaningful contribution to this global challenge that has ramifications for all citizens, governments and businesses. Because, quite simply, feeding the world is everyone's business.



Visit foodsecurity.dupont.com to learn more.

To learn more about food security challenges and opportunities in more than 100 countries, visit The Economist's Intelligence Unit's Global Food Security Index, sponsored by DuPont, at www.foodsecurityindex.eiu.com