DuPont Nutrition & Health

Welcome to
THE GLOBAL COLLABORATORY™

Presented by:

George Haizel
Country and Growth Lead – Ghana

November 13, 2013
DuPont: What we’re all about

Our Core Values are our Foundation:

- Safety and Health
- Environmental Stewardship
- Highest Ethical Behavior
- Respect for People

Our Mission is Sustainable Growth

- The creation of shareholder and societal value while we reduce the environmental footprint along the value chains in which we operate

We are a Market-Driven Science Company

- Our vision is to be the world’s most dynamic science company, creating sustainable solutions essential to a better, safer, healthier life for people everywhere
We are applying our science to find solutions to some really BIG challenges…

Feeding the World

Reducing Our Dependence On Fossil Fuels

Keeping People and the Environment Safe
Innovating to feed the world
$2 billion R&D Spend in 2011

- Electronics: ~86%
- Targeting Food, Energy, Protection
- Chemicals & Materials: 5%
- Electronics: 11%
- Keeping people and the environment safe
- Reducing our dependence on fossil fuels
- Feeding the world

© National Geographic image
DuPont 2012 Segment Sales.

- $10.4B Agriculture
- $3.4B Nutrition & Health
- $2.7B Electronics & Communications
- $6.4B Performance Materials
- $7.2B Performance Chemicals
- $3.8B Safety & Protection
- $1.2B Industrial Biosciences

$34.8 B*

* Consolidated net sales from continuing operations.
DuPont Nutrition & Health

DuPont Nutrition & Health addresses the world’s challenges in food by offering a wide range of sustainable, bio-based ingredients and advanced microbial diagnostic solutions to provide safer, healthier and more nutritious food.

Through close collaboration with customers, DuPont combines knowledge and experience with a passion for innovation to deliver unparalleled customer value to the marketplace.
DuPont Nutrition & Health

*Industry Leading Science*

**Processing**
- Extraction
- Conversion
- Separation

**Biotechnology**
- Genomics
- Molecular biology
- Fermentation

**Health**
- Nutrition science
- Immunology
- Microbiology
- Immune
- Digestive
- Heart
- Weight
- Bone
- Oral
- Sports
- Oral

**Application**
- Food science
- Formulation knowledge
- Sensory science
DuPont Nutrition & Health
Our Global Footprint

Canada
Mississauga
Scarborough

USA
Gibson City, IL
Louisville, KY
Madison, WI
Memphis, TN
New Century, KS
Pryor, OK
Remington, IN
Rochester, NY
St. Joseph, MO
St. Louis, MO
Tarrytown, NY
Terre Haute, IN
Thomson, IL
Waukesha, WI
Wilmington, DE

Argentina
Buenos Aires

Brazil
Cotia
Estéio
Pirapozinho

Chile
Pargua
Santiago

Colombia
Bogotá

Guatemala
Guatemala City

Mexico
Apatzingán
Mexico City
Tecomán
Veracruz

Peru
Lima

Austria
Lenzing
Vienna

Belgium
Ieper

Denmark
Brabrand/Aarhus
Copenhagen
Grindsted
Haderslev
Tonder

Finland
Kantvik
Kotka

France
Dangé Saint Romain
Epernon
Landerneau
Melle
Paris
Sassenage
Vinay

Germany
Frankfurt
Niebüll

Italy
Agrate Brianza

Netherlands
Etten-Leur
Zaandam

Norway
Hundvåg

Portugal
Faro

Spain
Barcelona
Madrid
Valencia

Sweden
Norrköping

Switzerland
Geneva
Kreuzlingen

UK
Beaminster
Kettering
Reigate

Turkey
Istanbul

Croatia
Zagreb

Czech Republic
Smírce

Poland
Olsztyn
Poznan

Romania
Bucharest

Russia
Moscow

Serbia
Novi Beograd

Ukraine
Kiev

Egypt
Cairo

India
Gurgaon
Mumbai
Sohna

South Africa
Cape Town
Johannesburg

Australia
Armadale/Melbourne
Botany

China
Anyang
Beijing
Daxing
Guangzhou
Hong Kong
Kunshan
Luohu
Shanghai
Zhangjiagang
Zhengzhou

Japan
Tokyo

Korea
Seoul

Malaysia
Penang
Subang Jaya

New Zealand
Auckland

Singapore
Singapore

Thailand
Bangkok
Collaborating to develop sustainable solutions

- **Sustainable sourcing**: Partnering with local farmers and growers to increase their crop yields.
- **Operational efficiency**: Working with manufacturers and retailers to provide better nutrition and packaging.
- **Sustainable offerings**: Collaborating with regulators to find better ways to ensure food safety and security.
- **Using LCA capabilities to reduce impacts throughout the entire value chain**.
DuPont Nutrition & Health

Globally, our ingredients can be found in …

- every 2nd ice cream
- every 2nd infant formula
- every 2nd nutrition bar
- every 3rd cheese
- every 4th loaf of bread
## DuPont Nutrition & Health

*Relevant Breadth and Scale of Product Portfolio*

<table>
<thead>
<tr>
<th>DuPont Nutrition &amp; Health</th>
<th>Emulsifiers</th>
<th>Systems</th>
<th>Texturants</th>
<th>Sweeteners</th>
<th>Fibers/Extracts</th>
<th>Cultures</th>
<th>Antimicrobials/Antioxidants</th>
<th>Food Safety Diagnostics</th>
<th>Food enzymes</th>
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**DuPont global position**

| #1 | #1 | #2 | #2 | #2 | #2 | #1 | #1 | #2 | #1 |

*DuPont has a leading position in product breadth and scale*
DuPont Nutrition & Health

*Our Offerings*

A broad range of ingredients for manufacturers of food and beverages, dietary supplements and pet food, providing enhanced bioprotection, improved nutritional profile, and better taste and texture with greater cost efficiency and lower environmental impact.

DuPont Qualicon Diagnostics

Science-based systems for pathogen detection and microbial monitoring.

Solaë

Innovative soy-based technologies for food, meat and nutritional products, spanning multiple applications and relevant to broad market segments — all delivering healthy, nutrition ingredients.
DuPont™ Danisco®

Enablers

These ingredients help manufacturers create foods with sensory attributes – mouthfeel, texture, structure – that appeal to consumers while delivering consistent, longer-lasting product quality and lower fat content.

- **Emulsifiers**
  (Blend fat /water, prevent separation, aid in aeration, softening, structure)

- **Hydrocolloids***
  (Water binding and protein interaction)

- **Systems**
  (Blends to achieve specific effects)

* Includes pectin, carrageenan, alginate, locust bean gum, guar gum, xanthan gum, cellulose gum and microcrystalline cellulose
DuPont™ Danisco®

Enzymes

Our food enzymes are used by manufacturers in these industries to help deliver higher, more consistent performance, longer product shelf life and to lower energy consumption and wastewater output.
DuPont™ Danisco®
Active nutrition ingredients

Our portfolio of active nutrition ingredients can provide an improved nutritional profile as well as physiological benefits backed by sound health efficacy science.

- Functional Extracts and Fibers
  - Betaine
  - Phytosterols
  - Polydextrose
  - Vitamin K
  - Rare Sugars

- Functional Sweeteners
  - Sustainable Xylitol
  - Lactitol
  - Fructose

- Probiotics
  - Finished Format Supplements
  - Probiotic Ingredients
DuPont™ Danisco®

Food protection ingredients

Our food protection solutions help you deliver taste, freshness, food safety and food waste reduction.
DuPont Qualicon Diagnostics
*Microbial detection and monitoring*

DuPont Qualicon Diagnostics products answer critical questions about microbial contamination in food:

- Which organism is it?
- Have I seen it before? Where? When?
- Where is it coming from?
- Is it there?

**BAX® System**
Fast, accurate, easy-to-use pathogen detection

**RiboPrinter® System**
Simultaneous bacterial identification and strain-level differentiation
Solae™

*Soy-based ingredients and technologies*

Solae solutions deliver functional, nutritional and economic benefits, addressing multiple applications that are relevant to broad market segments.
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Welcome to THE GLOBAL COLLABORATORY

Any questions?
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