



# SOYBEAN PIPELINE

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# Monsanto Sits At The Gateway Of A Stacked-Trait Platform That Delivers New Value on Farm



HIGHER-YIELDING SOYBEANS

DICAMBA TOLERANCE



SOYMEGA™ SDA OMEGA-3 SOYBEANS

INSECT PROTECTED *ROUNDUP READY 2 YIELD*® (Brazil Only)



*GENUITY™ ROUNDUP READY 2 YIELD*®

## FARMER BENEFITS

Increased Productivity

Enhanced Weed Management

New Access to Enhanced Value Oils Market

New Access to Omega-3 Nutrition

Higher yields and protection from heavy insect pressure in Brazil

Step Change in Yield and Platform for Future Traits

2010



Commercialization depends on many factors, including successful conclusion of regulatory process

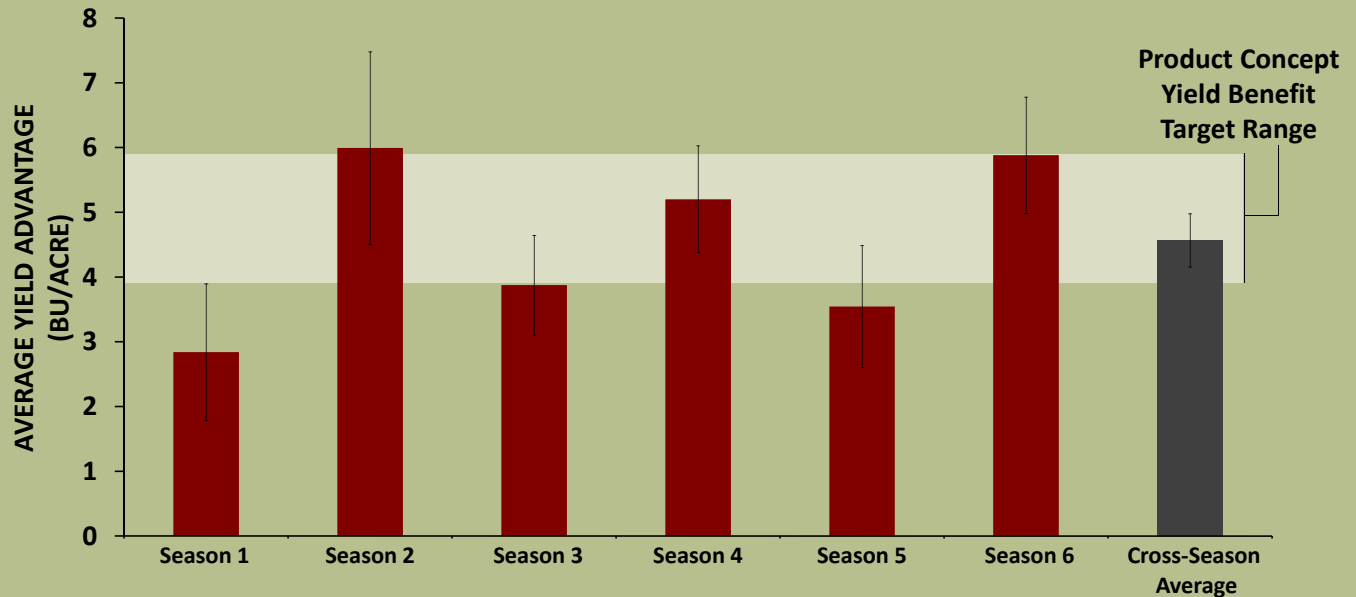
# Higher-Yielding Soybeans Showed Improved Yield Across Six Seasons of Broad-Acre Yield Trials



## PROJECT STATUS

- Intrinsic yield improvement through insertion of key genes
- Lead event shows an average yield advantage of 7.7 percent over controls in meta-analysis across 6 seasons of testing in 107 environments
- Developing regulatory data for phase advancement

## HIGHER-YIELDING SOYBEANS OUTYIELD CONTROLS IN NORTH AND SOUTH AMERICAN TRIALS



	US '07	LAS '07-'08	US '08	LAS '08-'09	US '09	LAS '09-'10	Summary
Environments	18	13	24	23	17	12	107
% Win	67%	100%	87%	85%	82%	89%	85%



IN COLLABORATION WITH BASF

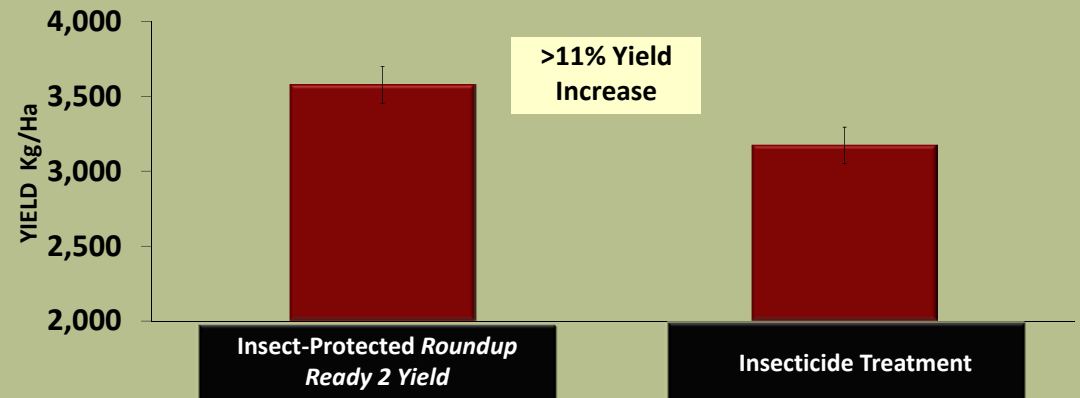
# Insect-Protected *Roundup Ready 2 Yield* Ushers In International Soybean Trait Platform



## PROJECT STATUS

- Confirmed insecticidal efficacy and enhanced yield performance in 2009/2010 season
- Brazil Regulatory filing made in June 2009; global submissions followed
- Insect Protected *Roundup Ready 2 Yield* becomes the platform in Brazil for future stacked traits
- Value proposition:
  - Insecticide reduction
  - Weed-control system performance
  - Yield improvement from *Roundup Ready 2 Yield*

## INITIAL YIELD RESULTS 2008/2009 CROP YEAR MEDIUM INSECT PRESSURE – 5 SITES



## MORRINHOS, BRAZIL – 2009/2010 SEASON



Discovery

Phase 1  
Proof of Concept

Phase 2  
Early Development

Phase 3  
Adv. Development

Phase 4  
Pre-Launch

Launch

# Soybean Value-Added Traits In Final Stage of Approval - *Vistive Gold* and *Soymega™* To Deliver Food Nutrition and Sustainable Source of Omega-3



## PRODUCT BENEFITS

- Designed to provide food companies a cost-effective vegetable oil that enables them to create new and better food products that provide improved functional performance
- Consumer health benefits: High Oleic, Lowers saturated fats, Eliminates trans fat
- Reduced saturated fat 43% and trans fat 98% in french fries
- Enables Zero Trans Fat on nutrition facts and “Clean Labels” (no trans-fat, low saturated fat)

## SOYMEGA™ SDA OMEGA-3

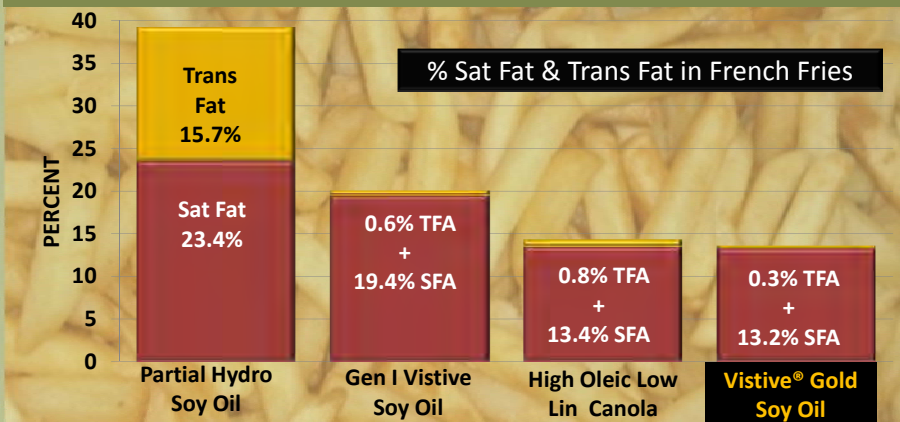
## PRODUCT CONCEPT

- Provide consumer health benefit (cardiovascular)
- Improve food product performance (taste and shelf life)
- Preferred sustainable source of omega 3 in food (flexible supply)

## FATTY ACID COMPOSITION (%)

	16:0 Palmitic	18:0 Stearic	18:1 Oleic	18:2 Linoleic	18:3 Linolenic	18:4ω3 SDA
Commodity Soy	11	4	24	52	8	0
SOYMEGA™	11	4	20	24	10	20

## FRENCH FRY STUDY



Source: 2009 Merlin Development and Monsanto

## Key Food Applications

- Oil Based Foods
- Dairy Products
- Snack Foods
- Beverages
- Baked Goods
- Prepared Foods

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# Roundup Remains the Foundation for Weed Control on Farm - Roundup Ready 2 Yield + Dicamba Represents Next Generation of Weed Control

## FOUNDATION



## ACTIVE INGREDIENTS COMPLIMENT *ROUNDUP*

### HERBICIDE SYSTEM DEPLOYMENT EXAMPLE

- BURNDOWN ● *Roundup*  
Dicamba; 2,4-D
- PRE-EMERGENCE ● Flumioxazin (Valor)
- POST-EMERGENCE ● *Roundup*; Warrant (Acetochlor)

## NEXT-GENERATION WEED CONTROL

**ROUNDUP READY 2 YIELD  
STACKED WITH DICAMBA  
TOLERANT TRAIT**

**Intro: 1996**

**2011**

**2013+**

## GAME CHANGER

## PROACTIVE APPROACH

## BIOTECH SOLUTIONS

- *Roundup* chemistry controls 300+ weed types globally
- Less than 10 species resistant in U.S. over 35+ year history
- *Roundup Ready* revolutionized farming with over-the-top spraying
- *Roundup Ready* foundation trait for all biotech products

- *Roundup* remains the full spectrum center-piece of a simple and affordable weed management system
- Alternative chemistries compliment *Roundup* with effective low-cost control of broadleaf and grass weed types
- *Roundup Ready 2 Yield* is the foundation for future herbicide stacks

- Development of multiple-modes of action for over-the-top applications creates more options for weed management solutions

# Dicamba-Tolerant Soybeans Expected to Provide the Most Effective Weed Management System

## PRODUCT BENEFITS

- Improved weed control options with two modes-of-action
- *Roundup* plus dicamba provides excellent control of hard to control weeds and glyphosate-tolerant weeds
- Soil residual activity extends weed control into early growing season increasing flexibility of the system
- Completed regulatory submission to the USDA

## 2009 SOUTHERN ILLINOIS UNIVERSITY TRIALS



Non-treated Control

Dicamba at 8 oz/A tank mixed with 22 oz/A of *Roundup WeatherMax* on *Roundup Ready 2 Yield/Dicamba-tolerant soybeans*

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