



## Technology at a Glance

**Accelerated Yield Technology is the novel integration of a proprietary matrix of molecular breeding technologies into the product development process, doubling the rate of genetic gain for yield, reducing yield variability and improving performance predictability.**

- Projected Introduction:
  - Corn - Hybrids developed with the technology in 2010
  - Soybeans - More than 65% of Pioneer® brand varieties on the market today
- Technology Location: Worldwide
- Crops: Corn, Soybeans
- Technology Use: Product Evaluation/Development

**AYT™ System = 2x Yield Gain + Reduced Yield Variability + Improved Predictability**

## Anticipating Needs

As global food, feed, fuel and fiber consumption continues to increase, we must look for ways to enhance grain production to meet these growing demands. Pioneer is constantly looking for methods to enhance productivity and bring the best products to customers faster.

Accelerated Yield Technology is allowing us to double the rate of genetic gain in both corn and soybeans and improve yield levels at an unprecedented rate.

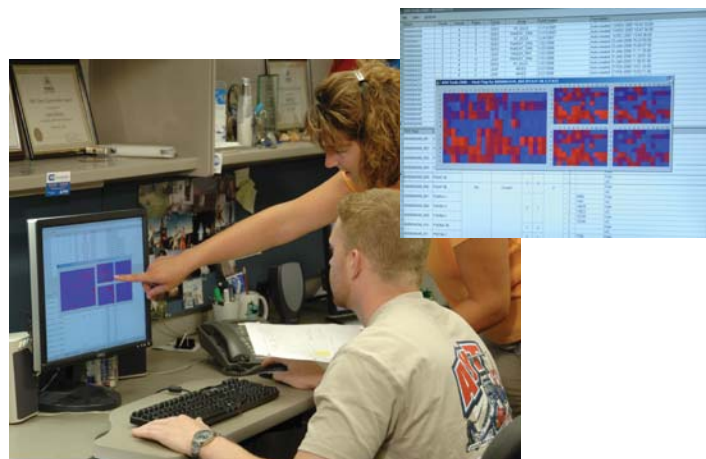
## Delivering Solutions

Accelerated Yield Technology is a powerful system approach that employs a unique combination of breeding technologies and techniques that, when successfully integrated into the product development process, enables genetic gains far greater than the sum of the individual components. Technologies such as gene mapping, field and molecular breeding technologies, doubled haploids and precision phenotyping are utilized in the AYT system.

## Delivering Value

The AYT system is helping make the Pioneer commitment to increase yields by 40 percent within 10 years a reality.

Utilizing Accelerated Yield Technology, Pioneer is doubling the rate of genetic gain in corn and soybeans. This translates into an additional two bushels and one-half bushel per acre above the yield increase derived from traditional breeding, respectively.



High-yielding gene combinations can be identified using proprietary molecular marker processes and computer simulation before field testing even begins.



Phenotypic data is gathered by assessing the physical characterizations of a plant.