

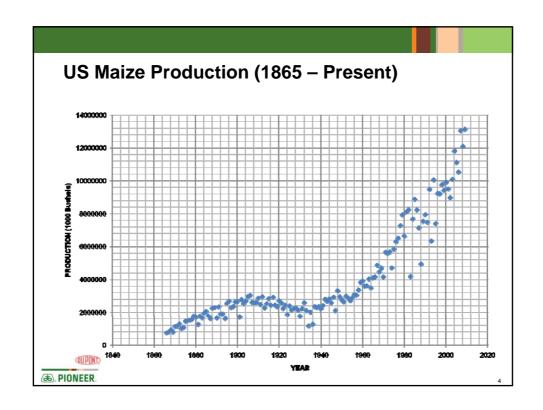
Outline

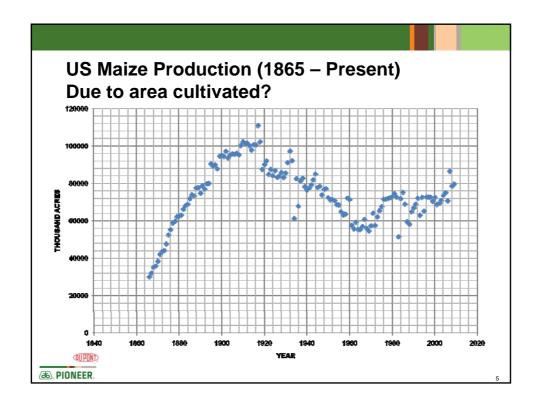
- Need for More Productivity on Farms
- Genetic Plant Breeding Solutions
 - Investments
 - Intellectual Property Protection
- Global View of DuPont Pioneer
- Integrated Approach to Satisfying Farmer-Customer Needs
 - Identifying the Needs of Farmer-Customers
 - Translating Farmer-Customer Needs to Breeding Goals
 - Evaluating New Potential Varieties
 - Quality Seed Production
 - Testing, Testing, Testing
 - Continual Learning About Farmer-Customer Needs and Product Performance
- Conclusions, Q&A, Discussion

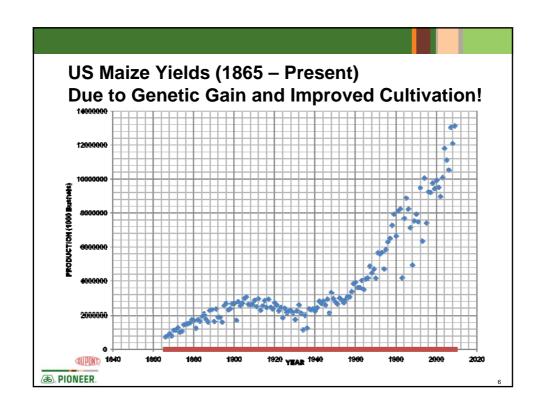


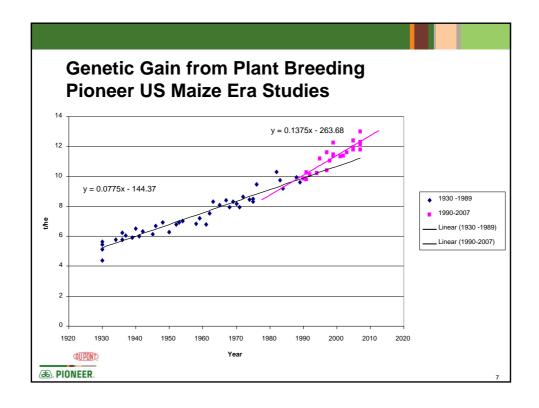
2

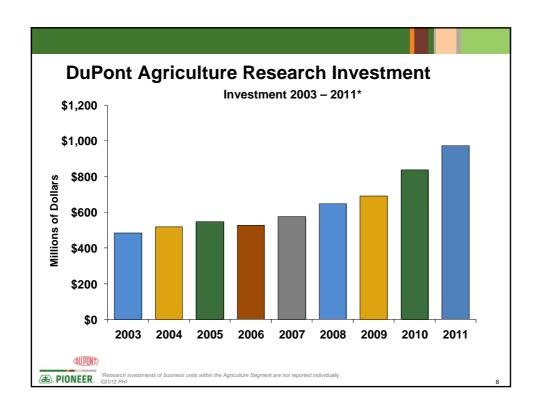












Intellectual Property Protection

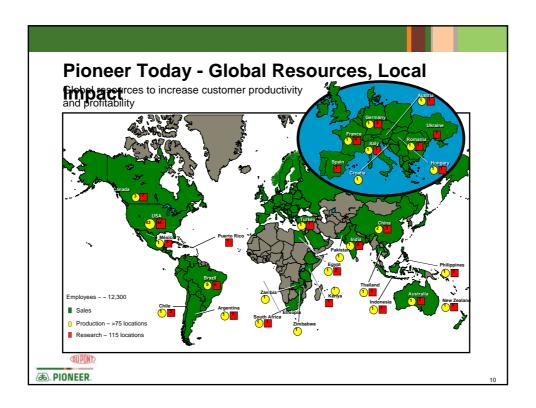
- PVP
 - Available globally
 - Essential level of protection
 - UPOV 91 balances multi-trait breeding with more specific trait improvement

Patents

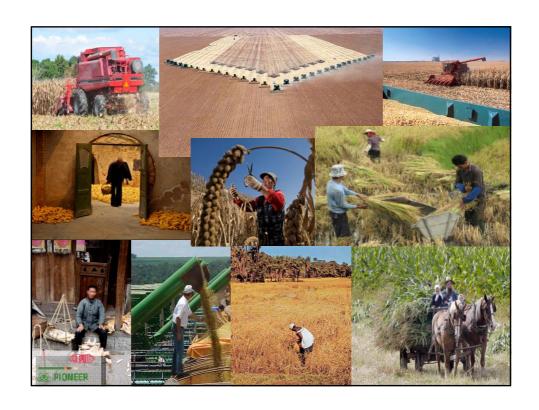
- Essential to encourage longer-term, higher-risk R&PD
 - For example:
 - Develop transgenics
 - •Introduce genetic diversity from initially unadapted sources
- Trade Secrets
- Contracts

B. PIONEER.

9

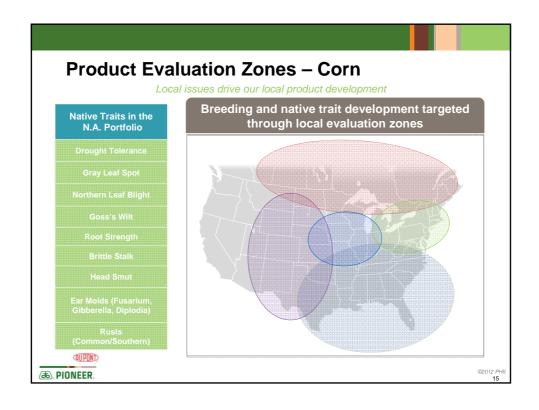


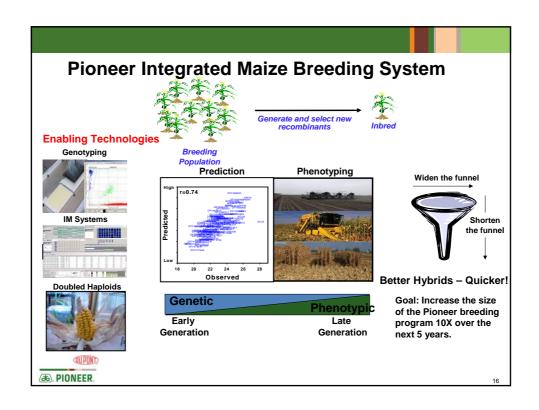










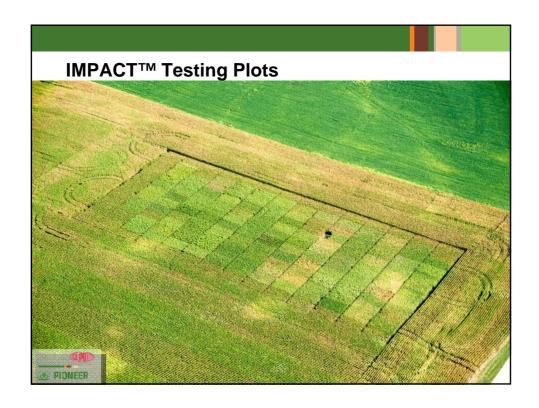


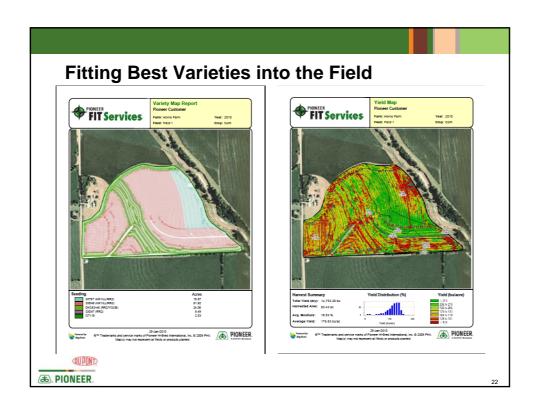


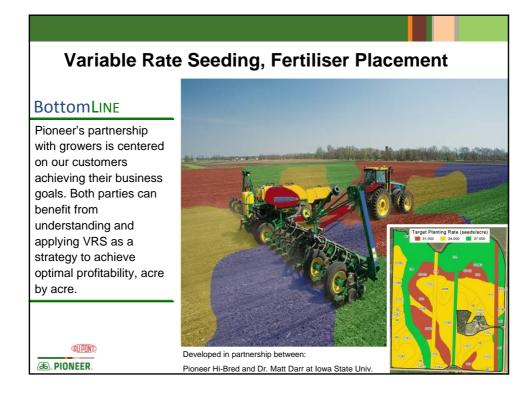


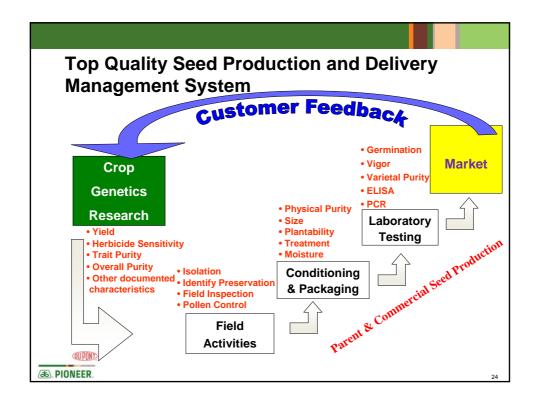






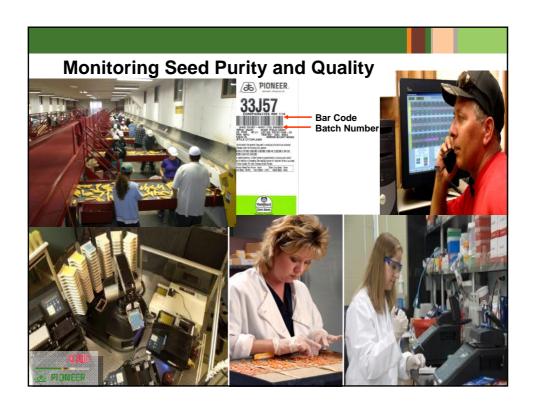


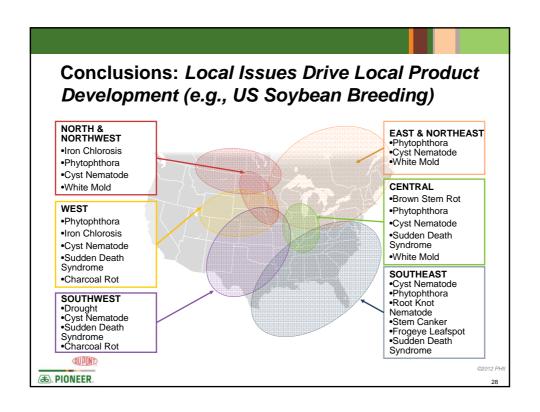












Conclusions: One Research Team

- Know the agronomic situation and needs of the farmer-customer
- · Translate those needs into goals for the breeder
- · Conduct most efficient and effective plant breeding
 - Well characterised genetic diversity, improved selection via genotyping and phenotyping
 - Rigorous testing of genetic basis of agronomics
- Performance trials on-farms key to determine if go commercial
- · Excellence in seed production quality
- Excellence in agronomic advice services to farmer-customers
- Broad array of different commercial products
- Continuous feedback from farmer on variety performance
- Sales-Marketing-Breeders-Agronomists-Seed Production ONE TEAM
- And ONE TEAM with the farmer-customer



B. PIONEER

29





