Safeguarding Innovation and Improving Food Security
A Grower’s Perspective from Argentina

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MAIZALL represents 70% of global maize exports
Consorcio Regional de Experimentacion Agropecuaria (CREA): farmers exchange experience at local level in Argentina
Sustainable Agriculture and Soil Health: no-till farming and cover crops
No-Till Surface Evolution in Millions of Hectares from 1977/78 to 2016/17 in Argentina
(Source: Bolsa de Cereales de Buenos Aires/Aapresid)
No-Till Adoption by Crop, 2016/2017
(Source: Bolsa de Cereales de Buenos Aires/Aapresid)
Synergies of no-till and biotechnology: some outcomes in Argentina

- Total economic impact in maize was Pesos 5.5 billion for 1998-2016, benefit of Pesos 2.5 billion for growers (Eduardo Trigo)
- Erosion reduced from 10 tons/ha to 1 ton/ha (Aapresid)
- Fuel savings in soy: 2.6 billion liters for 1996-2013, or 7 billion kg CO2 (Brookes & Barfoot)
- Reduced fuel consumption is 66% (Aapresid)
- Additional carbon sequestration in soy: 29.4 billion kg, or 108 billion kg Co2 (Brookes & Barfoot)
Meeting the global challenges of food security and climate change

- Farmers need safe, affordable and innovative technologies
- New tools such as precision farming, biotech seeds and genome edited crops can help deliver food security
- Farmers around the world want the opportunity to further improve soil health, reduce inputs and produce more safe food from the land more sustainably
- The world benefits if international trade allows the transfer of food and ag technologies to countries that can not grow enough themselves
Farmers Face Challenges

- Lack of understanding of the safety and benefits of biotech and deliberate misinformation from opposing groups
- Political interference in several countries stops farmers from being able to choose to grow biotech crops
- Lack of functioning regulations in many regions which often leads to delays in approvals and obstacles to trade
- **Result:** farmers are not able to use the best technologies available when concerns increase about global food security