

*People. Pigs. Planet.*SM

How Gene Editing Supports People, Pigs & Planet

Randy Spronk

Spronk Brothers and Ranger Farms



U.S. Pork's Foundational We Care Principles

- **Produce Safe Food**
- **Protect and Promote Animal Well-Being**
- **Protect Public Health**
- **Safeguard our Natural Resources**
- **Provide a Safe Work Environment**
- **Contribute to Quality of Life in our Communities**



DOING WHAT'S RIGHT

Gene Editing: An Unprecedented Opportunity

- ↓ Reduce (and potentially eliminate) disease
- ↓ Reduce Antibiotic use on farm
- ↑ Improve animal welfare
- ↓ Farming's environmental impact
- ↑ Grow more crops, raise more pigs with fewer natural resources
- ↑ Improve meat quality



Our Responsibility: Farm-to-Fork Transparency

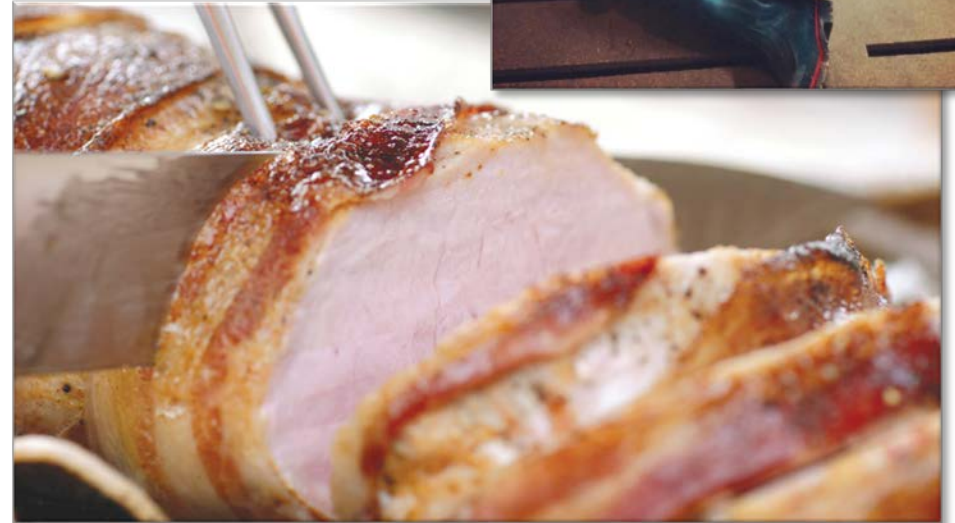
- **Open, honest dialogue and transparency is essential**
- **Span the food production process**
 - From farm to processor
 - From processor to retailer
 - From retailer to consumer



Next Steps: Define The Regulatory Environment

Effective regulation should:

- Build consumer *acceptance* and inspire *confidence* in food system
- Incorporate a *risk-based* framework
- Recognize editing *native* DNA in crops and animals differs from modification with *foreign* DNA



Summary: We Live In An Exciting Time

- Gene editing has tremendous potential for advancements in human medicine, crop science and animal science.
- We must have a meaningful dialogue with all who have an interest.
- And we need an effective and risk-based regulatory structure that inspires confidence.