

Precision Safeguarding

Next Generation Risk Management

Robert Griffin, Coordinator
Agriculture Quarantine Inspection
USDA, APHIS, PPQ



NAPPO

North American Plant Protection Organization
Organización Norteamericana de Protección a las Plantas
MEXICO - USA - CANADA



42nd NAPPO Annual Meeting, October 22-25, 2018

Parallels to Precision Agriculture

Precision Safeguarding shares a conceptual foundation with Precision Agriculture:

- Right place, right time, right amount of effort for the right reason
- Holistic strategy
- Leverage technology
- Collect and analyze data
- Risk-based decisions

The Bottom Line

Precision Agriculture aims to maximize profits, not only productivity



Precision Safeguarding aims to maximize the effectiveness of risk management across the safeguarding continuum, not only at the border

The Phytosanitary Farm

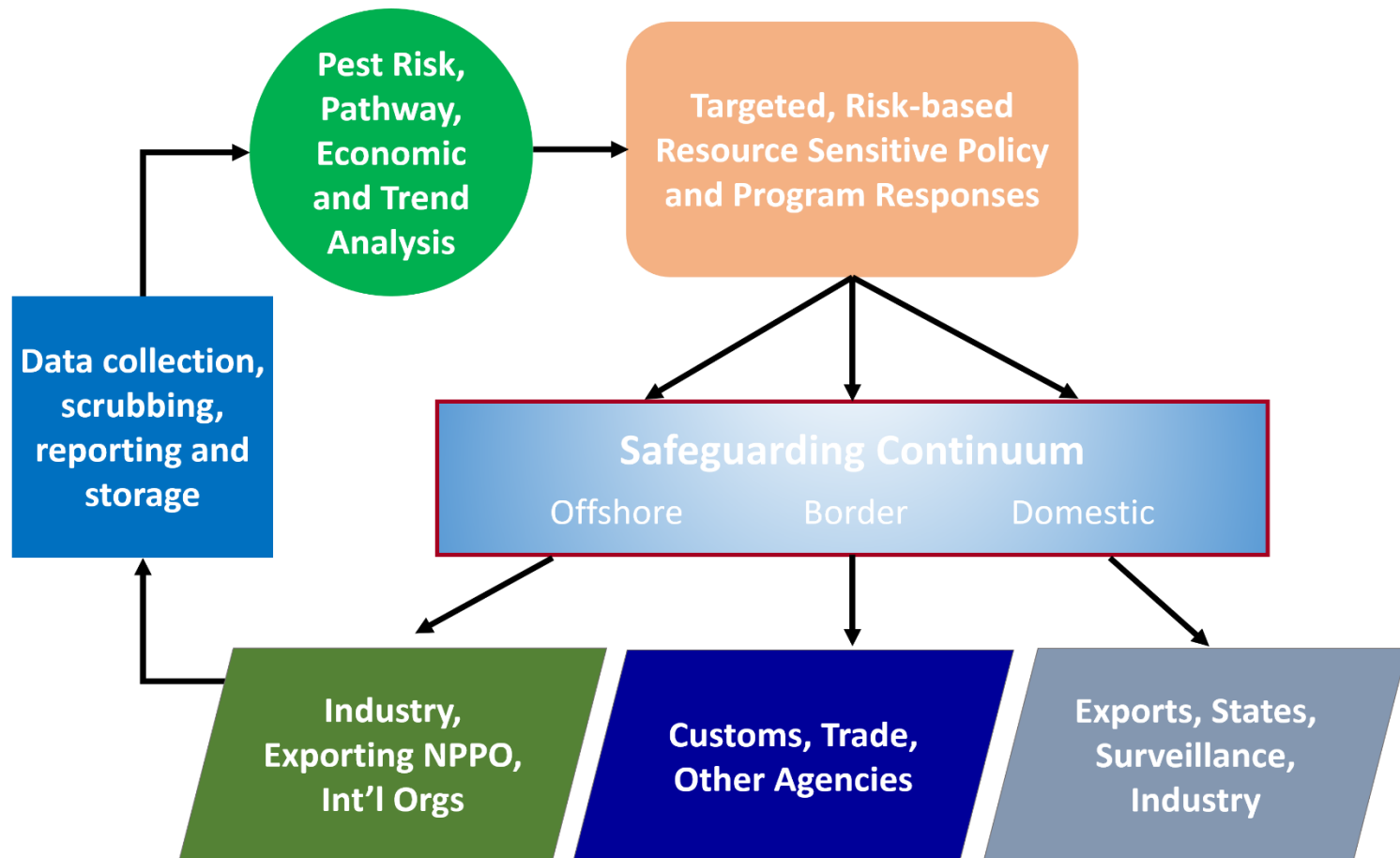


Characteristics of Precision Safeguarding

- Continuum-based (offshore – border - domestic)
- Real-world and real-time
- Resource sensitive
- Adjusted to risk
- Data driven
- Targeted
- Pivots quickly
- Aims for continuous improvement
- Incorporates external factors (producers, shippers, brokers, CBP)



What does it look like?



Precision Safeguarding is not...

- ⊘ Dogmatically linked to historical policy, processes, and precedents
- ⊘ Limited to traditional data streams
- ⊘ Zero-risk or zero tolerance
- ⊘ Arbitrary
- ⊘ Inflexible
- ⊘ Organizationally stovepiped



Risk-based... everything!

It is not feasible to practice safeguarding as a one-size-fits-all, static strategy...

- Continuum approach to risk management
- Prioritize programs and investments by risk
- Focus resources on highest risk
- Adjust strength of measures to risk
- Gather and analyze risk data
- Measure efficacy; follow risk



What does it mean for inspection?

- Inspection intensity/frequency adjusted for risk
- Sampling based on statistical conventions
- Compliance indexed designs
- More and better data collection
- Continuously adjusted targeting
- Faster and more meaningful feedback
- Greatly expanded analytical base
- Fair and defensible for trade



What does it mean for regulations?

- Less prescriptive designs
- Leverage alternative service providers
- Account for multiple pests/risks
- Systems approaches
- Move risk management offshore
- More monitoring/auditing
- Greater industry role
- Rewards for high-compliance



What does it mean for treatments?

- Strength of measures linked to infestation level and likelihood of introduction (risk)
- Focus on target prevalence of survivors
- Aim for consistent level of protection
- Reduce emergency treatments
- Eliminate unjustified treatments
- Minimize overkill (no probit 9)
- Cut methyl bromide use



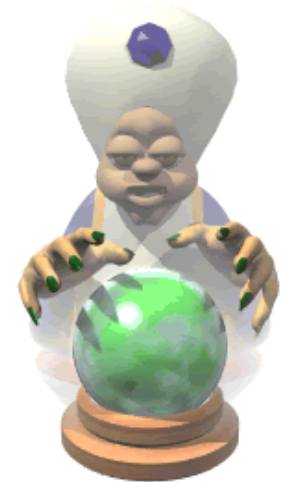
What does it mean for stakeholders?

- Greater consistency with international obligations
- Consistent with a **safe trade** perspective
- Transparent, predictable, defensible programs
- Stronger safeguarding role for industry
- More, faster, and better feedback
- Enhanced resource management
- Better program metrics
- Superior risk management



What happens next?

- Installing the mindset: always look for precision
- Question, evaluate, review safeguarding designs
- Strengthen the role of industry in pathway management
- Take account of risk mitigation that is not prescribed
- Understand, measure, and follow the risk
- More and better systems approaches
- **Next generation risk management**



Thank You



42nd NAPPO Annual Meeting, October 22-25, 2018