

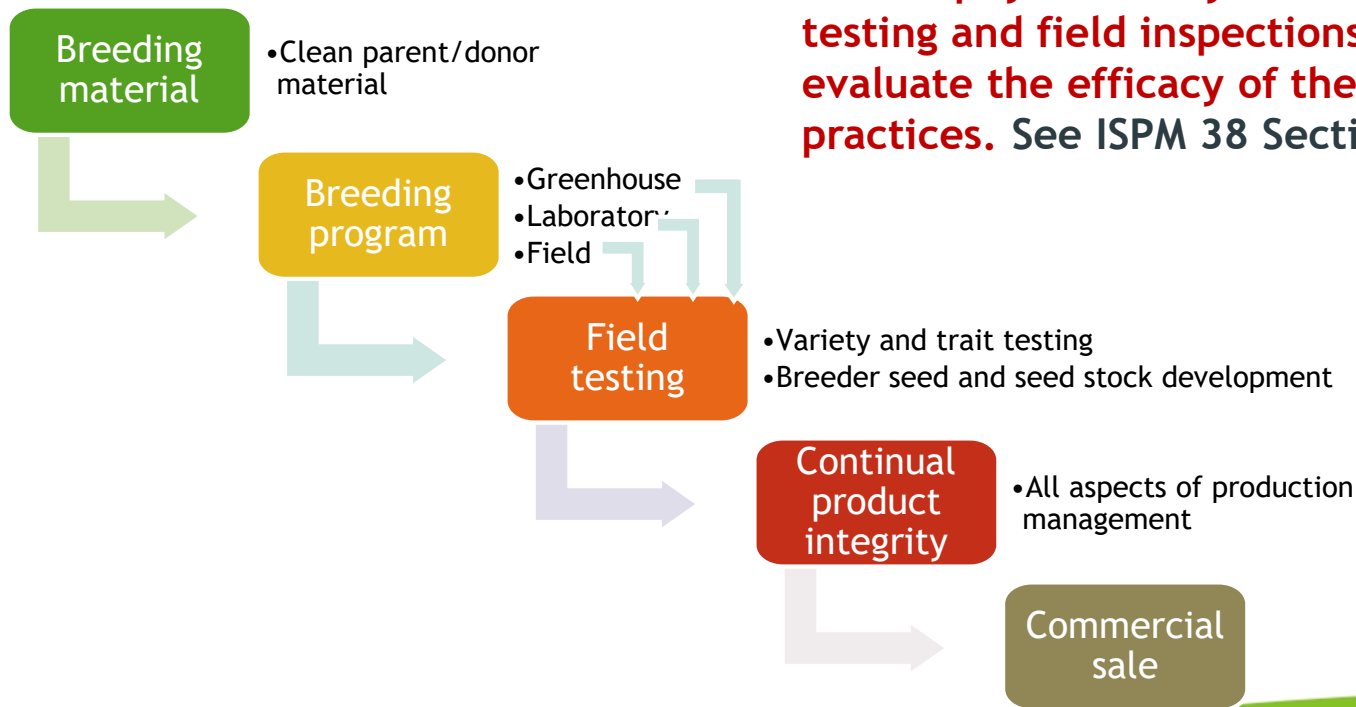
Assessment of Phytosanitary Risk Associated with Seed Quality Management Practices

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Systems Approach:

- The integration of different risk management measures, at least two of which act independently, and which cumulatively achieve the appropriate level of protection against regulated pests [ISPM No. 14, 2002; revised ICPM, 2005]
- ISPM 38 references seed production and quality practices which themselves reduce or manage phytosanitary risk
- ASTA has been sponsoring a research project with USDA Agricultural Research Service scientists (Dr. Gottwald and Laborde) to develop a model to assess or estimate the amount of phytosanitary risk reduction provided by seed QM practices in a systems approach

Seed Production Pathway



Best practices for production of quality seed work together within a systems approach to significantly reduce phytosanitary risk. Seed testing and field inspections evaluate the efficacy of these practices. See ISPM 38 Section 1.5

Gottwald Research Project

- ▶ Basic framework/model has been developed
- ▶ Model is applicable to all seed types
- ▶ Components and relationships among components have been identified/characterized
- ▶ May form the foundation for ReFreSH

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Current Ongoing Activities

- ▶ Researchers (Dr. Gottwald and Laboda) are populating the model with data/information/expert opinion for Cmm and tomato seed
- ▶ This application will be demonstrated sometime this fall and at the next ASTA vegetable and flower convention (January 2018, San Diego)
- ▶ Next application: CGMMV and melon seed species (early 2018)
- ▶ Project will be published in a peer refereed journal in 2018.

Thank you for your attention!

