



SEED REGULATORY FRAMEWORK ANALYSIS

RTB Seed System Toolbox
Course:
26, 28, 29 July 2021

Margaret A. McEwan, David J Spielman, Marcel Gatto, Tahirou Abdoulaye,
Guy Hareau



Purpose of the seed regulatory framework analysis

To provide actionable evidence on policy and investment options to accelerate seed system and market development

Catalyze dialogue among stakeholders on appropriate regulatory frameworks for VPC seed systems to contribute to agricultural development and food security



Level and uses of the seed regulatory framework analysis

Level. Entire seed system (national level and key production areas for the selected crop)

Users. Agricultural researchers, policy analysts



Seed potato producer David Maingi showing his plot, Meru County, Kenya. Credit: M. McEwan



Output and audience of the seed regulatory framework analysis

Output. Constraints, opportunities and policy options for appropriate seed regulatory frameworks for VPCs
Audience. Agricultural researchers, policy analysts, policy makers, and regulatory bodies



Stakeholder workshop to share evidence and insights on the policy and regulatory dimensions of VPC seeds systems, Nairobi, 2019. Credit: CIP



Minimum sample size for the SRFA tool

Purposive selection of different seed system stakeholders e.g., 20-40 organizations. 40-70 individuals

From: public and private sector scientists and technicians working on quality planting material of VPCs, public regulators of VPC seed, industry experts, entrepreneurs, traders, seed importers, NGOs, or others who produce, distribute or market VPC seed, and farmers and leaders of their associations who produce, use, or buy VPC seed



Resources for using the seed regulatory framework analysis

Number of people: 2 people each in 2 teams per production area

Equipment: internet, vehicles, location for workshops or focus group discussions

Expertise: agricultural economics, gender and other social science expertise, biophysical science



Timing & duration for the seed regulatory framework analysis

During scoping & design of an intervention
& evaluation to draw lessons

Two weeks data collection, one-month analysis and
write up



Steps for using seed regulatory framework analysis

Step 1. Literature review of prior work in the social and biological sciences on strengthening quality assurance systems for VPC seed production and distribution

Step 2. Document analysis to review and analyze public policies, regulations, rules, and guidelines for quality assurance of VPC seed production and distribution

Step 3. Secondary data analysis, drawing on data related to seed use, sources, prices, and related information contained in existing household, farm, and market surveys



Steps seed regulatory framework analysis

Step 4. Field visits using key informant interviews and focus group discussions with seed producers, traders in local markets where seed is traded, & researchers at stations that produce seed. Adapt sample checklists based on crop & context

Step 5. Analyze data to draw out stakeholder interactions, themes, from different conceptual perspectives. Draft report

Step 6. Workshops with key stakeholders in each country to feedback, validate & triangulate data & information collected & analyzed using the above methods

Step 7. Policy briefs, communication products for dialogue with policy makers and regulatory bodies



Methods that can be used to apply the SRFA

Method. Literature review, document analysis

Method. Key informant interviews (KII), focus group discussion (FGD) (*see IFPRI, 2019 for sample checklists*)

Method. Stakeholder validation workshop



Sex disaggregated FGD in Homa Bay and Nyandarua Counties, Kenya. Credit: N. Mudege



Gender

The implementation of seed policies, and regulatory frameworks have differential impact on seed producers and seed users depending on socio-economic status, age, and gender

Purposive selection of key informants, and sex disaggregated focus group discussions can be used to capture different perspectives

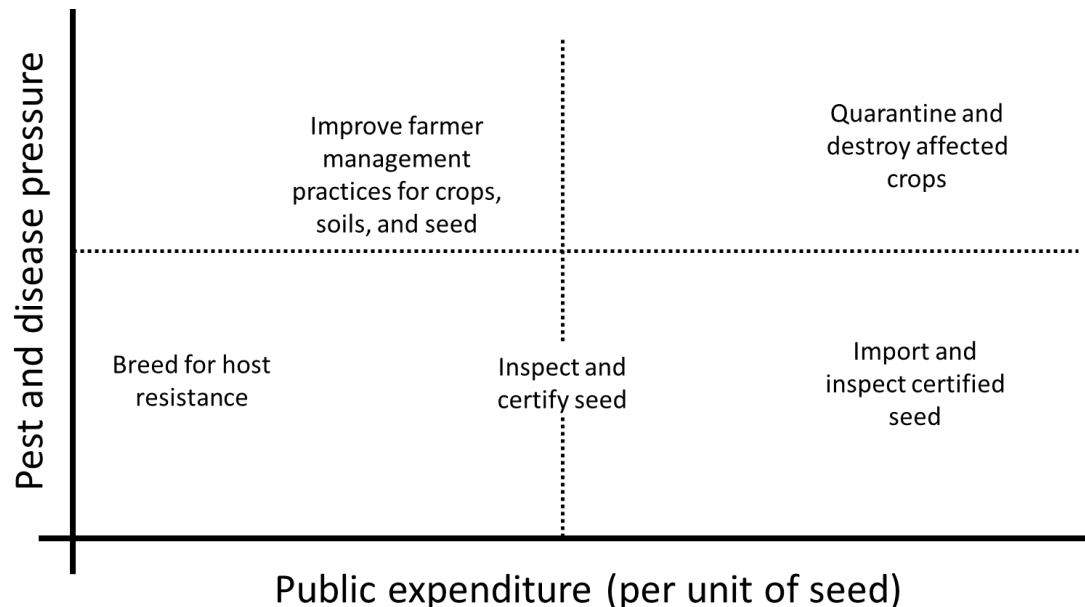
Policy formulation processes: elite capture, or inclusive?

McEwan, M. A., Mudege, N., & Spielman, D. J. (2019). [Who sits at the table? Policy, people, and potatoes in Kenya](#). Joint PIM and RTB blog, posted March 13.



Limitations of the seed regulatory framework analysis

The tool does not generate quantitative data on the cost effectiveness of different policy options, but explores trade-offs between risk of spread of disease and cost of regulation



Main advantages of the seed regulatory framework analysis

This tool opens opportunities for discussion on appropriate levels of seed regulation – one size doesn't fit all crops & contexts!

Use of results in Kenya: drafting of separate regulations for VPC seed, and proposed use of “standard seed” class to allow more generations & thus economies of scale

Gatto, M., Le, P. D., Pacillo, G., Maredia, M., Labarta, R., Hareau, G., & Spielman, D. J. (2021). [*Policy options for advancing seed systems for vegetatively propagated crops in Vietnam*](#). *Journal of Crop Improvement*, 1-27.

Spielman, D. J., Gatto, M., Wossen, T., McEwan, M., Abdoulaye, T., Maredia, M. K., & Hareau, G. (2021). [*Regulatory options to improve seed systems for vegetatively propagated crops in developing countries*](#). *IFPRI Discussion Paper 02029*. International Food Policy Research Institute (IFPRI). Washington, DC.

McEwan, M. A., Spielman, D. J., Okello, J., Hareau, G., Bartle, B., Mbiri, D., Atieno, E., Omondi, B. A., Wossen, T., Cortada, L., Abdoulaye, T., & Maredia, M. (2021). [*Exploring the regulatory space for improving availability, access and quality of vegetatively propagated crop seed: potato in Kenya*](#). *RTB Working Paper No. 2021-1*. CGIAR Research Program on Roots, Tubers and Bananas (RTB). Lima, Peru.



Contact person

Margaret McEwan

M.McEwan@cgiar.org

David Spielman

D.Spielman@cgiar.org

User guide: McEwan, M.A., Spielman, D.J., Gatto, M., Abdoulaye, T. and Hareau, G., 2021. [User guide to seed regulatory framework analysis and implications for vegetatively propagated crops](#). Lima (Peru). CGIAR Research Program on Roots, Tubers and Bananas (RTB). RTB User Guide. No. 2021-2.

Sample checklists: International Food Policy Research Institute (IFPRI), International Center for Tropical Agriculture (CIAT), International Institute for Tropical Agriculture (IITA), International Potato Center (CIP), & Michigan State University (MSU), (2019). Making seed systems and markets for vegetatively propagated crops (VPCs) work for the poor: A cross-country study of Kenya, Nigeria, and Vietnam. Harvard Dataverse, V1. <https://doi.org/10.7910/DVN/MSIMRE>

Description sheet: McEwan, M.A. and Spielman, D.J. 2021. [Description sheet to seed regulatory framework analysis](#). Lima (Peru). CGIAR Research Program on Roots, Tubers and Bananas (RTB).

Available online at: www.rtb.cgiar.org

