



# FOOD AID QUALITY REVIEW

## Cost-Effectiveness in Response to Emergencies

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### BACKGROUND

The cost-effective use of high-value products, prepositioning, and use of different modalities will be evaluated to develop an evidence-based emergency response strategy. FAQR team will assist FFP to carry out a data and model based assessment of emergency response modalities, including use of local and regional procurement and cash and vouchers. The dual use of supply chains for development operations and emergency response will be explored, including dual use of food products, storage facilities and pre-positioned stocks. Through modeling of the entire value-chain as a “system” (including product mix, transfer modality, regional and local procurement, storage location and amounts, transport and delivery options), a total-cost effectiveness analysis will be conducted in FY16 and FY17. The goal will be to move beyond sequential and siloed decision making without proper visibility of each decision’s impact on others to consider the entire value-chain as an interacting system to identify efficiencies and choke-points. The models developed will be further used to evaluate the cost-impact of alternatives and provide optimized recommendations that will be tested in a simulation environment that includes multiple emergency scenarios (based on real field data) during FY17.

### OBJECTIVES

- A. Developing models for cost-effectiveness assessments of emergency response modalities, including prepositioning, use of local and regional procurement and cash and vouchers.
- B. Developing models for cost-effectiveness assessments of dual use of supply chains for development operations and emergency response, including dual use of food products, storage facilities and pre-positioned stocks.
- C. Based on the models recommend pre-planning v. response decisions
- D. Develop spreadsheet tools based on the models