



Food and Agriculture  
Organization of the  
United Nations

# FOOD CHAIN CRISIS MANAGEMENT FRAMEWORK



Through the Food Chain Crisis Management Framework (FCC), the Food and Agriculture Organization of the United Nations (FAO) addresses, in an integrated and interdisciplinary manner, transboundary animal (including aquatic) and plant (including forests) pests and diseases, food safety, and radiological events threatening the food chain.

These threats can significantly affect food and nutrition security, livelihoods, human health, national economies and global markets.

The FCC approach combines the whole range of technical, coordination, communication and operational expertise within FAO to address transboundary threats. It integrates prevention, monitoring, early warning, preparedness and response at all stages of the food chain, from production to consumption.

FCC is FAO's primary tool for action in support of countries in the global governance of threats to the food chain.

The FCC operates through three interrelated units:

- The **Intelligence and Coordination Unit (ICU)** ensures overall coordination across the FCC components, provides threats forecasting and long-risk analysis, and plans and delivers communication and advocacy activities.
- The **Emergency Prevention Systems (EMPRES)** work on prevention, early warning and early reaction across the entire food chain, through three thematic components: EMPRES Animal Health, EMPRES Plant Protection and EMPRES Food Safety. The FCC also includes the Aquatic Animal Health and the Forest Health components.
- The **Response component** is based in the **Emergency and Resilience Division (PSE)**, with the technical leadership falling under the relevant technical divisions. In partnership with EMPRES teams, PSE ensures rapid-, medium- and longer-term responses to threats and emergencies to the food chain using the operational capacities of FAO. It also coordinates and facilitates resource mobilization for emergency and resilience programmes.

FOOD  
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FRAMEWORK



FAO EARLY WARNING SYSTEMS

- **Desert Locust Information Service (DLIS)** to collect and send information from remote locations to decision-makers on a timely basis
- **FAO Global Early Warning System (GLEWS)** to inform prevention and control measures, through the rapid detection and risk assessment of health threats and events
- **FCC forecasting approach** to predict FCC threats having a high impact on food and nutrition security and livelihoods
- **EMPRES-i Global Animal Disease Information System** to provide timely and reliable information on global animal disease distribution and current threats at national, regional and global level
- **FAMEWS global platform** to provide a real-time situation overview, with maps and analytics of Fall armyworm infestations at global, country and sub-country levels

FAO TOOLS FOR COMBATting TRANSBOUNDARY THREATS

- **Geographic Information System (GIS)** to combine and cross-analyse a large amount of visual and numerical data and produce predictions of disease spread
- **Risk modelling tool** to predict diseases
- **EMA-i** application mobile for real-time disease reporting
- **FAMEWS** application mobile for collecting, recording and transmitting data on Fall armyworm
- **eLocust3** for recording and transmitting locust field observations during survey and control operations

MANAGING TRANSBOUNDARY THREATS

- **Contingency plans:** training and simulation exercises
- **Measures for epidemics prevention:** quarantine, vaccination, hygiene measures, burning plant residues and ploughing the soil
- **Measures for epidemics control:** zoning and information on regional movements of products/animals/plants
- **Integrated Pest Management:** environmentally sound control technologies, use of cultivars and tree breeding for resistance

CAPACITY DEVELOPMENT AND TECHNICAL SUPPORT

- **Training**
- **Technical consultation guidelines and handbooks**
- **Information systems**
- **Standard operational procedures**
- **Policy and technical support**
- **Partnerships**

