

48. DATA DRIVEN SUPPLY CHAIN SYSTEM TO UNDERSTAND AND IDENTIFY REAL TIME SHORTAGES BETWEEN REGIONS

ACTION AREA	UNIVERSAL FOOD ACCESS TO BUILD RESILIENCE
SOLUTION CLUSTER	NATIONAL FOOD SUPPLY CHAINS
THEMATIC AREA	POLICY AND INSTITUTIONAL INNOVATIONS FOR RURAL AREAS
SUBMITTED BY	TETRAPAK COMPANY

WHAT IS THE RISK, SHOCK, STRESS THAT THE SOLUTION IS TRYING TO ADDRESS?

A key challenge in times of crises and conflict is ensuring an uninterrupted supply of food products. During COVID-19 we saw many examples of companies coming together to collaborate and share resources amongst each other to ensure continuous production and uninterrupted supply of food. This solution aims to create a data driven supply chain system to understand and identify real time shortages between regions through a live mapping of products, e.g. across factories, retail stores and warehouses to allow collaboration among stakeholders in times of need. Such a mechanism could also be applied to avoid food loss and spoilage, introducing re-allocation efforts in places where there is excess food.

HOW DOES THE SOLUTION IMPROVE OR ENHANCE RESILIENCE OF FOOD SYSTEMS?

The creation of a data-led live global supply chain model that, in times of crisis or need, tracks capacity in factories and retail stores to anticipate shocks in the supply chain, will allow governments and other stakeholders to identify areas at risk of acute shortage, or areas where there may be risk of spoilage due to excess food. Such a mapping would enable governments and allied stakeholders to collaborate amongst themselves to immediately take measures to re-allocate foods to meet demand for food to address food security challenges.

IS THE SOLUTION RELEVANT TO BUILDING FOOD SYSTEMS RESILIENCE?

Anticipate shocks/risks/stress and/or reduce vulnerability, Manage risks, Prevent (reduce exposure), Absorb, respond/cope, Adapt to shock-affected scenarios and evolving risk scenarios

IN WHAT REALMS OF INTERVENTION IS THE SOLUTION DESIGNED TO ACT ON RESILIENCE?

Individual, Household, Community

WHO ARE THE MAIN ACTORS THAT WOULD PUT THIS ACTION INTO PLACE?

Policymakers (government), Private (businesses, etc.), Civil (NGOs, etc.)

IS THE SOLUTION APPLICABLE AT GLOBAL LEVEL, OR SPECIFIC CONTEXTS & PARTICULAR COUNTRIES?

Global, regional and at a country level.

HOW DOES THIS SOLUTION CONTRIBUTE TO (A) EMPOWER WOMEN AND COMBAT GENDER INEQUALITIES, AND (B) THE FULFILMENT OF HUMAN RIGHTS, ESPECIALLY THE RIGHT TO FOOD AND THE RIGHT TO WATER, (C) MAKE USE OF INNOVATIONS (TECHNOLOGIES, INSTITUTIONS, PROCESSES)?

This solution particularly contributes to (b) by ensuring interruption of food supplies is minimized while improving food security, a basic human right, in times of conflict and crises. It contributes to (c) making use of technology by proposing the creation of a data-led model that would serve as a food security warning system and allow for governments and stakeholders to make decisions on the re-allocation of food to areas in need.