



SecureFood

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An integrated approach to enhance food systems resilience, advocating for food security and uninterrupted food supply.

PROJECT OVERVIEW

SECUREFOOD ADOPTS A SYSTEMS-THINKING APPROACH TO FOOD SYSTEMS, VIEWING THEM AS COMPLEX, INTERCONNECTED NETWORKS INVOLVING VARIOUS ACTORS, PROCESSES, AND INFRASTRUCTURES THAT ARE CRUCIAL FOR FOOD PRODUCTION AND DELIVERY. THE PROJECT AIMS TO ENHANCE FOOD SECURITY BY FOSTERING COLLABORATION AMONG:



ACTORS IN THE FOOD SUPPLY CHAIN:

PRODUCERS

RETAILERS

FOOD INDUSTRIES

CONSUMERS



SUPPORTING ACTORS:

TRANSPORT CARRIERS

MINISTRIES RESPONSIBLE FOR NATIONAL RESILIENCE EFFORTS

OBJECTIVES

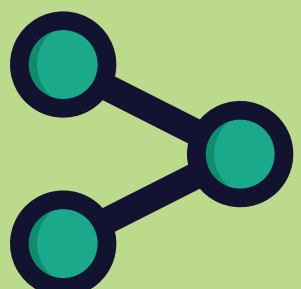


ADDRESS FOOD SECURITY CHALLENGES THROUGH AN ECOSYSTEM OF SCIENTIFIC KNOWLEDGE AND DIGITAL TOOLS



ASSESS RISKS AND VULNERABILITIES

ACROSS VARIOUS FOOD VALUE CHAINS (GRAINS, FRUITS, VEGETABLES, FISH, AND DAIRY)



DEVELOP A FOOD SYSTEMS RESILIENCE MANAGEMENT FRAMEWORK AND A RESILIENCE GOVERNANCE FRAMEWORK TO PROMOTE COLLABORATION AND INCLUSIVITY

KEY FEATURES



CASE STUDIES: ADDRESS ONGOING CRISES, SUCH AS THE IMPACT OF THE UKRAINE CONFLICT ON GRAIN SHIPMENTS



DIGITAL TOOLS

CREATE AN ECOSYSTEM OF TOOLS FOR RISK ASSESSMENT, DECISION-MAKING, AND RESILIENCE-BUILDING

PROJECT WORK PACKAGES

WP1 – PROJECT COORDINATION

ENSURE EFFICIENT PROJECT MANAGEMENT, INCLUDING GOVERNANCE, RISK, AND QUALITY CONTROL. OVERSEE TECHNICAL COORDINATION, DATA MANAGEMENT, AND COMPLIANCE WITH ETHICAL AND LEGAL STANDARDS.

WP2 – BACKGROUND ANALYSIS AND HIGH-LEVEL ARCHITECTURE

ANALYSE THE CURRENT FOOD SECURITY LANDSCAPE AND IDENTIFY DRIVERS, STAKEHOLDER NEEDS, AND SYSTEM REQUIREMENTS. DEFINE SECUREFOOD USE CASES AND DESIGN ITS OVERARCHING ARCHITECTURE.

WP3 – RISK AND RESILIENCE GOVERNANCE FOR FOOD SYSTEMS

ESTABLISH FRAMEWORKS FOR RESILIENCE AND GOVERNANCE IN FOOD SYSTEMS. ANALYSE RISKS, VULNERABILITIES, AND IMPACTS ON FOOD SECURITY USING MODELLING TOOLS.

WP4 – DIGITAL TWINS AND SIMULATORS FOR FOOD SUPPLY CHAINS

CREATE A LIBRARY OF DIGITAL TWIN MODELS FOR FOOD VALUE CHAINS, CUSTOMIZE THE AGRIPOLIS MODEL FOR CASE STUDIES, AND DEVELOP 3D SIMULATIONS TO ANALYSE CONSUMER BEHAVIOUR.

WP5 – DIGITAL SUPPLY CHAIN AND EARLY WARNING SYSTEM

DEVELOP A WEB-BASED DASHBOARD AND EARLY WARNING SYSTEM, OPTIMIZE TRANSPORT LOGISTICS, AND CREATE A PLATFORM FOR STAKEHOLDER COMMUNICATION. TEST SECUREFOOD TECH IN LAB CONDITIONS.

WP6 – CO-CREATION, TESTING, AND EVALUATION

DESIGN SCENARIOS FOR CASE STUDIES, TRAIN USERS, AND VALIDATE SECUREFOOD INNOVATIONS IN FOUR CASE STUDIES, FOLLOWING A STRUCTURED EVALUATION STRATEGY.

WP7 – CULTURE-BUILDING, POLICY RECOMMENDATIONS, AND BEST PRACTICES

CONDUCT AWARENESS-BUILDING AND TRAINING. DEVELOP CRISIS COMMUNICATION PRINCIPLES, POLICY RECOMMENDATIONS, AND WHITEPAPERS FOR FOOD SYSTEM RESILIENCE.

WP8 – DISSEMINATION AND EXPLOITATION

EXPAND STAKEHOLDER ENGAGEMENT, PROMOTE PROJECT OUTCOMES, AND CREATE A STRATEGY FOR MARKET ADOPTION. IDENTIFY AREAS FOR STANDARDIZATION AND ASSESS SOCIOECONOMIC IMPACTS.

WP9 – ETHICS REQUIREMENTS

ENSURE PROJECT COMPLIANCE WITH ETHICS REQUIREMENTS THROUGHOUT ALL ACTIVITIES.

EXPECTED OUTCOMES



ENHANCED UNDERSTANDING OF FOOD SYSTEMS AND VULNERABILITIES

STRENGTHEN INSIGHTS INTO FOOD SUPPLY CHAINS, IDENTIFYING WEAKNESSES AND CRITICAL POINTS WHERE INTERVENTIONS COULD INCREASE RESILIENCE ACROSS VARIOUS FOOD SYSTEM COMPONENTS.



A COMPREHENSIVE FRAMEWORK FOR RESILIENCE IN FOOD SYSTEMS

DEVELOP AN INTEGRATED FRAMEWORK FOR MANAGING FOOD SUPPLY CHAIN RESILIENCE, TAILORED TO ADDRESS RISKS AT LOCAL, NATIONAL, AND REGIONAL LEVELS EFFECTIVELY.



BETTER PREDICTIVE ANALYTICS FOR CRISIS PREVENTION

LEVERAGE REAL-TIME DATA TO ANTICIPATE AND MITIGATE RISKS TO FOOD SECURITY, ALLOWING FOR INFORMED AND TIMELY RESPONSES TO EMERGING THREATS.



STRENGTHENED COLLABORATION AMONG STAKEHOLDERS

FOSTER GREATER COOPERATION ACROSS THE FOOD INDUSTRY, GOVERNMENT, AND PUBLIC SECTORS BY ESTABLISHING SHARED FRAMEWORKS AND RESOURCES THAT ENHANCE RESILIENCE EFFORTS.



IMPROVED FOOD SECURITY MEASURES BEFORE AND DURING CRISES

ENABLE PROACTIVE RESPONSES AND PROTECTIVE ACTIONS THROUGH ADVANCED MONITORING AND RISK ASSESSMENT TOOLS THAT PREPARE STAKEHOLDERS FOR FOOD SUPPLY DISRUPTIONS.



INCREASED PUBLIC AWARENESS OF FOOD SECURITY

EDUCATE THE PUBLIC ON FOOD SYSTEM VULNERABILITIES AND RESILIENCE STRATEGIES, PROMOTING COMMUNITY INVOLVEMENT AND SUPPORT FOR SUSTAINABLE PRACTICES IN FOOD SECURITY.

