BioValue

FORK-TO-FARM AGENT-BASED SIMULATION TOOL AUGMENTING BIODIVERSITY IN THE AGRI-FOOD VALUE CHAIN

The main aim of the BIOVALUE project is to develop a dynamic and customisable tool that will analyse the link among biodiversity, the agri-food value chain, the environment and consumer's preferences and health. To this end, a demand driven approach (fork-to-farm) is adopted. The ultimate outcome of the research are novel food dish recipes and processed food products from the underutilised, genetically diverse crops resulting from the extensive breeding programme foreseen within the project.

BioValue is divided into 11 Work Packages, 3 devoted to the ethical aspects (WP1), the dissemination & exploitation activities (WP10) and the management (WP11), and 8 core research Work Packages (WP2-9), ensuring that scientific excellence is accomplished throughout the project (Figure 2).

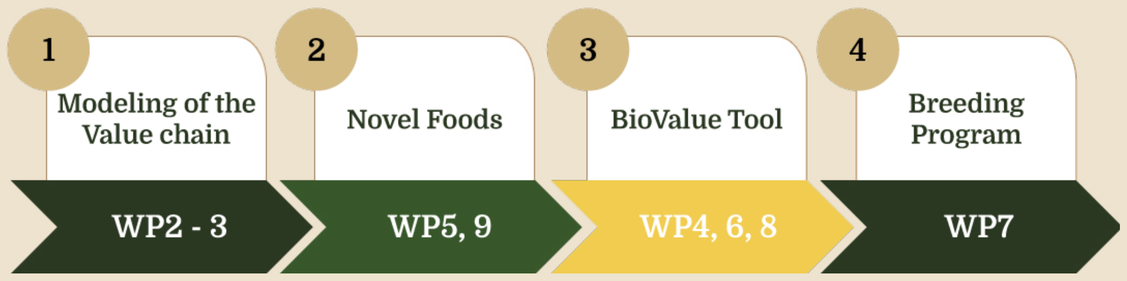


Figure 2: BioValue's Research related WPs

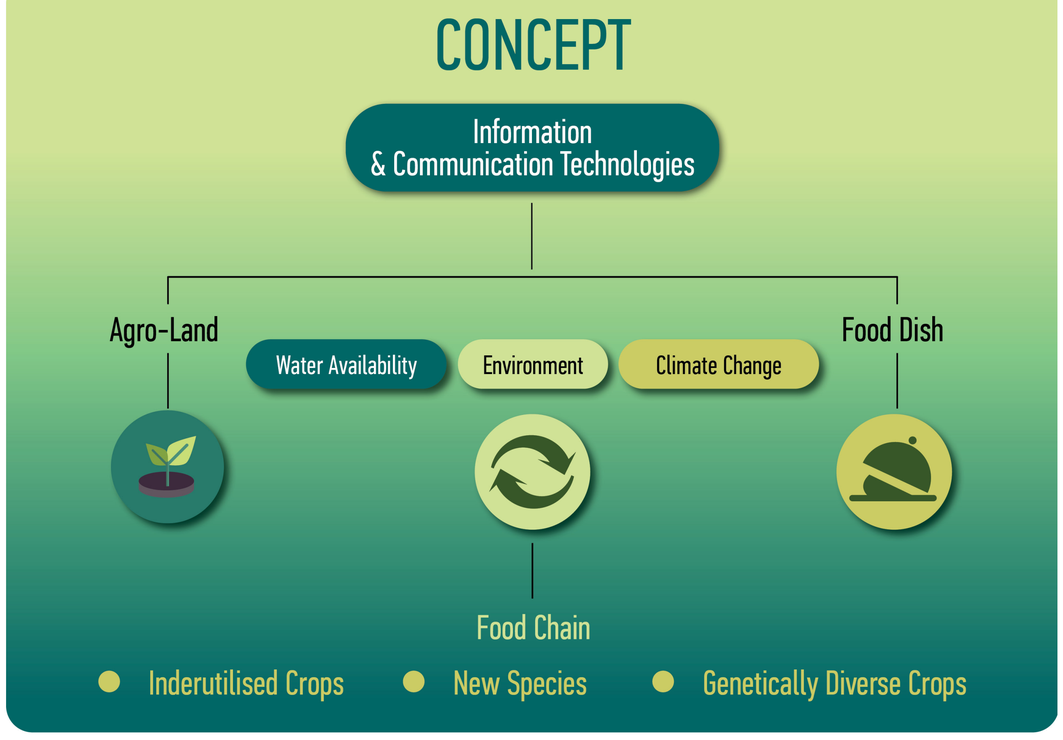
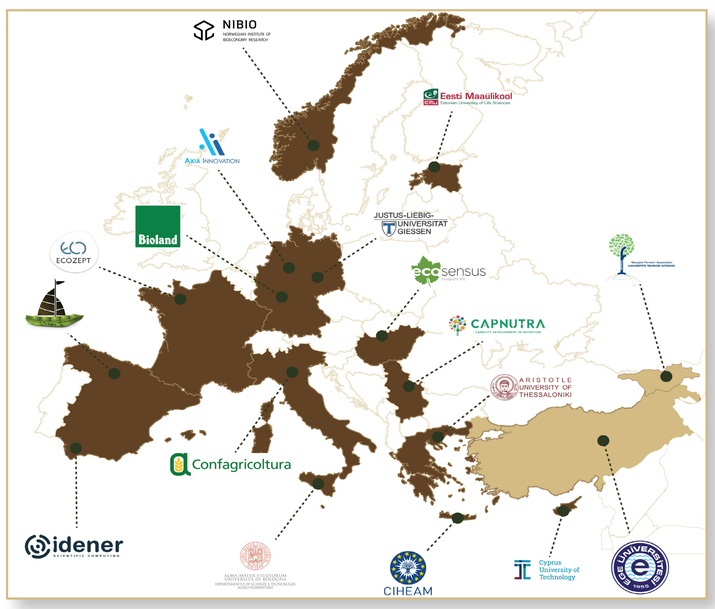


Figure 1: BioValue's Concept

The BIOVALUE tool is a dynamic, and modular agent-based simulation tool of the agri-food value chain with the aim to analyse experimentally the introduction of marginal traditional varieties starting with novel food dish recipes and processed food products and closing the value chain with an extensive breeding program throughout Europe. The proposed tool will be applied to real-world decision-making to extract and augment the value of so far underutilised and genetically diverse crops in Europe. Furthermore, environmental impacts of future water availability and climate change scenarios will be incorporated modularly into the BIOVALUE tool.



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