



# Research and Development

MASHAV, in alignment with the 2030 Agenda believes that new technologies are critical to enhancing agricultural productivity and reducing poverty. Transformative changes are required regarding how food is produced, processed and consumed in order to meet multiple needs. In this context, Research and Development is required to ensure that groundbreaking innovations continue to be developed and are made accessible to all.

The role of science and technology in promoting economic growth and welfare improvement is well established, particularly in the field of agriculture and rural development. New technologies can enhance the quantity and quality of agricultural yields and output, while also improving the sustainable use of natural resources. These improvements ultimately translate into income generation, greater food consumption, better nutrition, and favorable changes in the allocation of individual and household assets.

The Agricultural Research Organization (ARO), the Volcani Center, is responsible for most of the agricultural research conducted in Israel. Research at the ARO aims to improve existing agricultural production systems and introduce new products, processes and equipment on which Israel's future agricultural efforts will be based.

MASHAV shares with fellow nations the outputs of Israel's research and development, which can be applied most aptly to developing countries facing similar climatic and geographical conditions.

Following are some of MASHAV's professional programs in the field:



## Global

- Bioinformatics and Biotechnology: Today's Tools for Tomorrow's Agriculture in a World of Global Environmental Changes
- Feeding the Future: Food Safety and Technology in Times of Global Change
- Nutrition in a Changing Global Environment
- Animal Transboundary & Emerging Diseases - The Israeli Experience



## Agricultural Production

- Intensive Agriculture in Arid and Semi-Arid Environments
- Vegetable Production in a Protected Environment
- Crop Production under Saline Stress
- Agricultural Engineering Technologies



## Environment

- Agriculture and the Environment: Practices and Processes in Soil and Water
- Agri-Green Management: Environmental Considerations under Climatic Changes in Integrated Pest Management



## Post-Harvest

- Food Security & Grain Storage: Technologies and Management
- Postharvest Physiology, Pathology and Handling of Fresh Commodities



## CONTACT US

MASHAV - Israel's Agency for International Development Cooperation  
 Ministry of Foreign Affairs  
 +972-2-5303220 mashav@haigud.org.il

