

# **Tomato** value chain in Iraq







Uptake of water-Water scarcity, pollution and efficient salinization. exacerbated by inefficient irrigation and budget-friendly practices (e.g. surface tools to monitor soil irrigation) and lack

technologies (e.g. drip irrigation) moisture and salinity.

#### **FERTILIZERS**

Use of counterfeit and unfit chemical products. Increased emissions, risk of pollution and eutrophication



of water.

Preparation and use of organic fertilizers, e.g. composting.







Use of outdated varieties, insufficient national agronomic research, and no evidence of climateadapted breeds.



# **Farming**

of international

agreements on

river water use.

#### PRODUCTION INFRASTRUCTURE

Open-field farmers face declining yields and direct crop damage from weather extremes such as drought and heatwaves.

Promote investment in greenhouses, adapted shading equipment, and retrofit existing farming infrastructure by adding protective features.

### AGRICULTURAL PRACTICES

Low adoption of crop Adoption of GAPs rotation and to enhance crop intercropping making diversification, soil fertility and climate production more prone to losses from weather resilience. extremes.



#### **PESTS AND DISEASES**

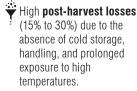
Outbreaks of insects, Use of pest-resistant pests and fungal infestations, such as root-knot nematode pest, tomato fruit worm and leaf miner, threaten tomato

production.

breeds and increase knowledge of pesticides use and application (e.g. biological-control techniques and GAPs).

## Post-harvest

### STORAGE AND TRANSPORT



High post-harvest losses 🖒 Restore or establish shared processing facilities at the community level.

> Adoption of energy-efficient cooling infrastructure and refrigerated transport equipment.



# **End market**



High demand from Iraqi consumers for **local** sustainable tomatoes to substitute imports but low availability and need to meet market requirements (packaging, aspect, colour).

77% of Iragi consumers would choose local tomatoes against imported ones, even if their cost is higher 43% of Iraqis who have tried organic products would buy those, even at a higher price.

### **MARKETS**



Improve understanding of domestic market requirements and invest in productivity-enhancing equipment and infrastructure.

Foster agri-business **innovation** to support organic farming, value-added activities and ecosystem, and climate services.



risk high level moderate low opportunity

level



Read the report: Climate change risks and opportunities in Iraqi agrifood value chains

> Hyperlink: https://www.intracen.org/ uploadedFiles/Common/SAAVIreport.pdf