

Impact	Our wastewater reuse practice delivers significant, multi-faceted impacts, fostering long-term food system resilience in Jericho. • Socially: By providing a consistent water supply for agriculture, it strengthens the date sector, sustaining approximately 6,000 jobs. This empowers women (40% of workforce in packaging/sorting), promoting inclusion, gender equity, improving livelihoods, and enhancing community stability. • Economically: Supplying approximately 3,500 cubic meters/day of high-quality treated water (with capacity to increase) directly revitalizes agri-food. This enhances date production and market access for SMEs, significantly boosting incomes and resilience. Thriving farms also foster agritourism, creating additional revenue through farm visits and local product sales, diversifying the economy. • Environmentally: This sustainable water source supports the crucial ~16.5 km² green belt, combating desertification and improving air quality. Date palms absorb ~95,700 tons CO₂ equivalent annually, resulting in a net reduction of around 92,400 - 93,225 tons of CO₂eq per year after subtracting operational emissions. Sustainable soil management and Integrated Pest Management (IPM) reduce erosion and pesticide use, incrementally improving biodiversity. Our practice concretely contributes to MUFPP goals by optimizing resource use and building a climate-resilient food system.
Inclusion	The wastewater reuse practice embodies a holistic approach, fundamentally driven by Jericho's community demand to preserve its historical identity amidst escalating challenges. Its design and implementation demonstrate multi-level governance and broad stakeholder inclusion. International agencies like JICA and USAID provided crucial support, alongside vital engagement from Palestinian governmental bodies, including the Palestinian Water Authority and the Ministry of Agriculture. Local Palestinian universities contributed through essential soil testing, ensuring scientific rigor. Capacity building was central, with Japanese teams rigorously training municipal staff who now skilfully operate the plant. This territorial inclusion extends city-wide, enhancing food security and environmental quality for all residents. The project serves as a replicable model for other cities and regions facing similar water scarcity issues. Furthermore, it actively promotes social inclusion: by sustaining agricultural livelihoods, it directly empowers youth and women, and protects vulnerable populations from poverty and pollution, ensuring equitable access to a healthier, more productive environment. This unique cross-sectoral integration of water, agriculture, and environment fosters sustainable urban development and offers a strategic solution to resource scarcity. It is a cornerstone for Jericho's future, and a role model for the entire region in building resilient and sustainable food systems.