

Climate & Water Smart Protected Cultivation in Morocco

Dutch Solutions for Sustainable Horticulture and Food Security in Morocco

Morocco's agricultural success is one of the country's great achievements. Through modernization, innovation and strong export performance, the Kingdom has built a thriving agri-economy that feeds millions and competes on global markets. However, new challenges demand new solutions. Climate change, water scarcity, and evolving market demands require a next step that combines technology, sustainability, and shared knowledge. By investing in smarter production systems and resource-efficient cultivation, Morocco can continue to lead the region as a centre for sustainable and high-value horticulture. The Netherlands, a global leader in controlled environment agriculture, shares Morocco's vision for the future. Together, we can help shape a food system that is resilient, efficient, and prosperous for generations to come.

Dutch Greenhouse Delta (DGD) coordinates the cluster of Dutch leading companies, knowledge partners and government.



Morocco – The Challenge

- Increasing water scarcity due to climate change and overuse.
- Agriculture remains a key economic driver but faces sustainability pressures.
- High dependence on efficient irrigation for competitive production.
- National strategy 'Generation Green 2020–2030' focuses on modernizing agriculture, improving water efficiency, and creating jobs.
- Need for affordable, scalable solutions adapted to local economic realities.



The Dutch Contribution

Goal: Strengthen Morocco's horticulture sector through advanced, water-smart protected cultivation solutions.

Key Impact Areas:

- Controlled Environment Agriculture (CEA) – Modern greenhouse systems tailored to Morocco's climate.
- Water-Efficient Production – Drip irrigation, sub-irrigation, water reuse and aquifer management.
- Biological Crop Control – Integrated pest management and natural pollination.
- Smart Technologies – Climate control, automation, and LED lighting.
- Capacity Building – Training programs, demonstration sites, and joint innovation.



Program Activities

- Branding & Promotion: Showcasing Dutch horticultural innovation in Morocco.
- Market Access: Outgoing/incoming trade missions and networking.
- Knowledge Exchange (K2K): Technical workshops and capacity building.
- Economic Diplomacy: Government-to-government and business-to-government engagement.



Why the Netherlands?

- Leader in water-efficient, high-yield horticulture.
- Integrated approach linking technology, agronomy, and training.
- Expertise in adapting solutions to arid and semi-arid regions.
- Global reputation for innovation and sustainable agriculture.



Expected Outcomes

- Water savings up to 90% versus traditional methods.
- Improved yields and quality of horticultural produce.
- Stronger resilience of Moroccan agriculture to climate variability.
- Long-term trade and knowledge partnerships between Morocco and the Netherlands.

