



Morocco – COMCE Cooperation

Promoting a Climate-Resilient Agriculture Sector against Climate Change in OIC Member Countries : **Morocco's Best Practices**

Presented by :

Wissam ETTOUAHRI

Agricultural economics engineer

Head of Bilateral Cooperation Office

Division of Cooperation
Directorate of Strategy and Statistics - MAPMDREF

September 21st, 2026 – Ankara



The Climate Urgency within the OIC Area

01. Major Constraint

Dominance of arid and semi-arid zones across OIC member territories.

02. Direct Threats

Structural water scarcity and intense hydric stress accelerating environmental degradation.

03. Global Challenge

Food security is heavily compromised, requiring an immediate systemic response.

 The Moroccan Response: Shifting from reactive crisis management to proactive strategic planning.

Morocco's Structuring Strategies

2008 – 2020

The **Green Morocco Plan** (PMV)

Laid the foundation for modernized agricultural output, scaling up value chains, and structuring investment frameworks.

2020 – 2030

The '**Generation Green**' Strategy

Shifts the focus toward human capital sustainability, advanced climate adaptation, and enhancing farm business profitability.

🎯 **Core objective: Aligning environmental sustainability with farm profitability.**

Key Outcome: The institutionalization of climate resilience across all levels of the agrarian economy.

💧 Water Sovereignty & 🌱 Soil Conservation

Pillar 1 – Water Sovereignty

- Irrigation Networks: Massive conversion to localized drip irrigation systems.
- Water Highways: Innovative inter-basin water transfer to balance regional scarcity.
- Coastal Desalination: Shared agricultural desalination via the flagship Chtouka facility.
- Circular Economy: Structured re-use of treated wastewater (REUT) for irrigation.

Pillar 2 – Soil Conservation & R&D

- Direct Seeding: Ambitious target of 1 million hectares under no-till farming by 2030.
- Soil Optimization: Eliminating tillage to optimize organic moisture retention.
- Advanced Agronomics: Strategic scientific R&D spearheaded by INRA Morocco.
- Target Crops: Breeding climate-resilient arboriculture and drought-resistant cereals.



Inclusion & Financial Ecosystems

Pillar 3 – Smallholder Inclusion

- Territorial Targeting: Bespoke development frameworks for Oases and Mountain areas.
- Agricultural Aggregation: Legal levers linking small farmers to robust value chains.
- Local Value Creation: Protecting terroir products through geographic indication labeling.
- Socio-Economic Micro-Impact: Direct empowerment of rural women's cooperatives.

Pillar 4 – Green Financial Ecosystem

- FDA Single Window: Public subsidies strictly conditioned on environmental criteria.
- Inclusive Banking Models: Custom financial tracks by Crédit Agricole du Maroc (CAM).
- MAMDA Framework: Global multi-risk climate insurance safeguarding crop yields.
- Smart Fintech Indexing: Deploying satellite-based payout metrics for rapid climate relief.

Pillar 5 – Agriculture 4.0 and Data

REMOTE SENSING

Satellite monitoring of crop water stress and vegetation indexes.

EARLY WARNING

Real-time dissemination of hyper-local weather alerts via SMS networks.

PRECISION FERTILIZATION

Digital soil fertility mapping preventing chemical run-off and optimizing yields.

CONNECTED ADVISORY

Mobile extension digital applications (e.g., Atmar platform) bridging the knowledge gap.

Roadmap for COMCEC Member States

Focus Area	Strategic Recommendation	Implementation Mechanism
Water	Tie public subsidies to compulsory drip-irrigation adoption.	National Agricultural Funds
Soil	Bulk procurement of direct seeders for smallholder cooperatives.	Inter-cooperative equipment pooling
Finance	Establish regional insurance pools and index-based risk products.	Joint initiative with Islamic Development Bank (IsDB)
Knowledge	Establish an OIC Center of Excellence for Climate-Smart Agriculture in Morocco or Turkiye	Trilateral knowledge-sharing platforms

Building an Alliance for Resilience

Future Vision

Deploying joint pilot projects and cross-border Living Labs to test dryland adaptation models.

South-South Cooperation

Direct transfer of Moroccan public engineering expertise to OIC partners.

Tripartite Mechanism

Strategic financing frameworks between Morocco, institutional donors like IsDB, and the OIC.

 **Ultimate Ambition: A Common Market for Climate Adaptation within the OIC Area.**

Wissam ETTOUAHRI

Senior Agricultural Economist

Head of Bilateral Cooperation Office

Phone : +212 537 66 55 59

Mobile : +212 657 83 20 87

Fax : +212 537 76 40 12

Email : wissamettouahri@yahoo.fr

المملكة المغربية
Royaume du Maroc



وزارة الفلاحة والصيد البحري
والتنمية القروية والمياه والغابات

Ministère de l'Agriculture, de la Pêche Maritime,
du Développement Rural et des Eaux et Forêts

