

Empowering African Water Management: The Impact of Technology and Innovation

Case Study analysis

**What percentage of the world's population
will face severe water shortages by 2040 if we
don't act**



Answer Choices:

a. 10% of the world (+- 800 million people)

b. 50% of the world (+- 4 billion people)

c. 25% of the world (+- 2 billion people)

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How many additional people in Africa could have access to clean water by 2030 if we use smart water technology solutions?



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Source: International Water Management Institute (IWMI) and African Development Bank (AfDB) reports.

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Leak detection

Smart irrigation

Real-time water
quality sensors

Urban Water Management in Tunisia and Jordan

Case Study analysis

CHALLENGES IN TUNISIA: TUNISIA, LIKE JORDAN, FACES SIGNIFICANT WATER LOSSES IN URBAN AREAS DUE TO AGING INFRASTRUCTURE AND LEAKS.

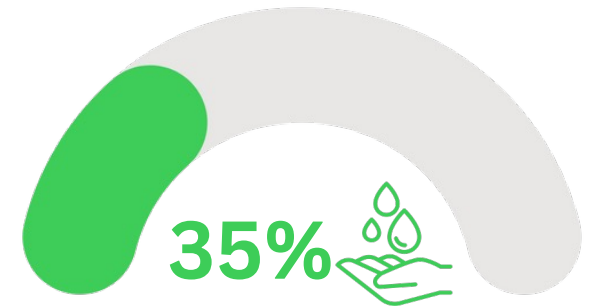
Jordan's Solution: Jordan utilized Schneider Electric's SCADA systems to monitor their water distribution network in real-time, reducing leaks and improving efficiency.

IMPACT in Jordan:

- 35% reduction in water LOSSES IN URBAN AREAS.
- 25% IMPROVEMENT IN WATER DISTRIBUTION EFFICIENCY.

HOW IT CAN HELP TUNISIA?

IMPLEMENTING A SIMILAR SCADA-BASED MONITORING SOLUTION IN TUNIS AND OTHER CITIES COULD REDUCE WATER LOSSES BY UP TO 30%, SECURING MORE WATER FOR URBAN RESIDENTS.



35% Water Loss Reduction
in Jordan's Urban Areas



\$10 Million Saved Annually

Through reduced water losses in Jordan's Urban Areas



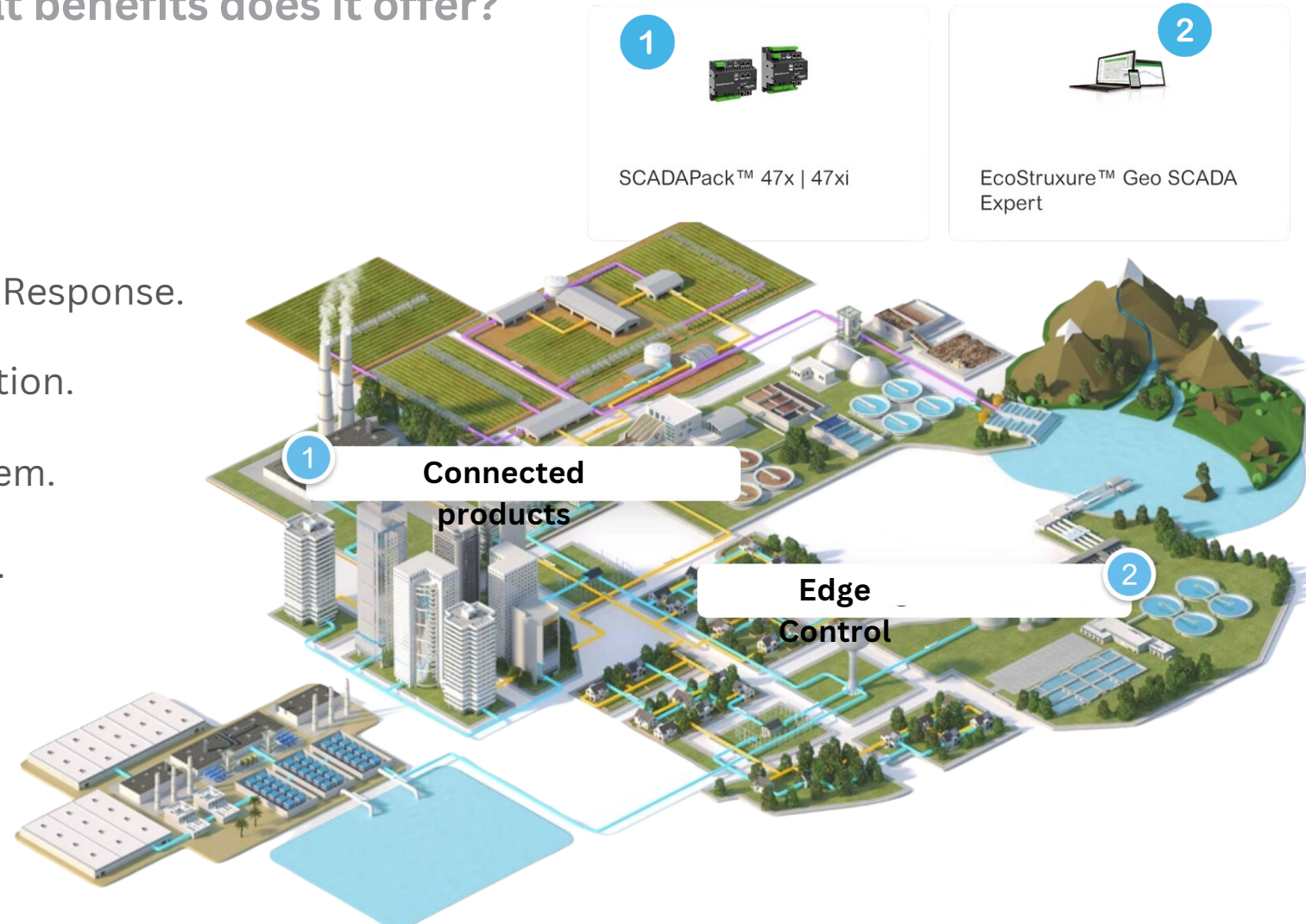
200,000 !

Water Saved Can Serve **200,000**
Families for a Year

Urban Water Management in Tunisia and Jordan

How does it work, and what benefits does it offer?

- Real-Time Monitoring.
- Automatic Leak Detection.
- Automated Alerts for Quick Response.
- Data Analytics for Optimization.
- Remote Control of the System.
- Efficiency and Cost Savings.



Agriculture in Tunisia and Morocco

Case Study analysis

CHALLENGES IN TUNISIA:

LIKE TUNISIA, MOROCCO FACES SIMILAR WEATHER CONDITIONS AND HAS STRUGGLED WITH WATER WASTAGE IN AGRICULTURE.

MOROCCO'S SOLUTION: SCHNEIDER ELECTRIC'S SMART IRRIGATION SYSTEMS USING ECOSTRUXURE™ TECHNOLOGY.

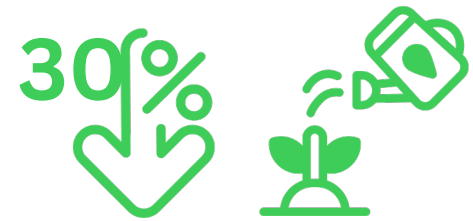
IMPACT: 30% REDUCTION IN WATER USAGE, 20% INCREASE IN CROP YIELDS. THAT CAN IRRIGATE AROUND 40,000 HECTARES OF FARMLAND PER YEAR.

HOW IT CAN HELP TUNISIA:

IMPLEMENTING SIMILAR SYSTEMS IN TUNISIA'S AGRICULTURE COULD BOOST EFFICIENCY AND CROP PRODUCTION.



20% Increase in crop yields



30% Water Loss Reduction / Year
(20,000,000 m³/year)



5

Millions People

**Provide Drinking Water for 5 Millions
people / Year**

Agriculture in Tunisia and Morocco

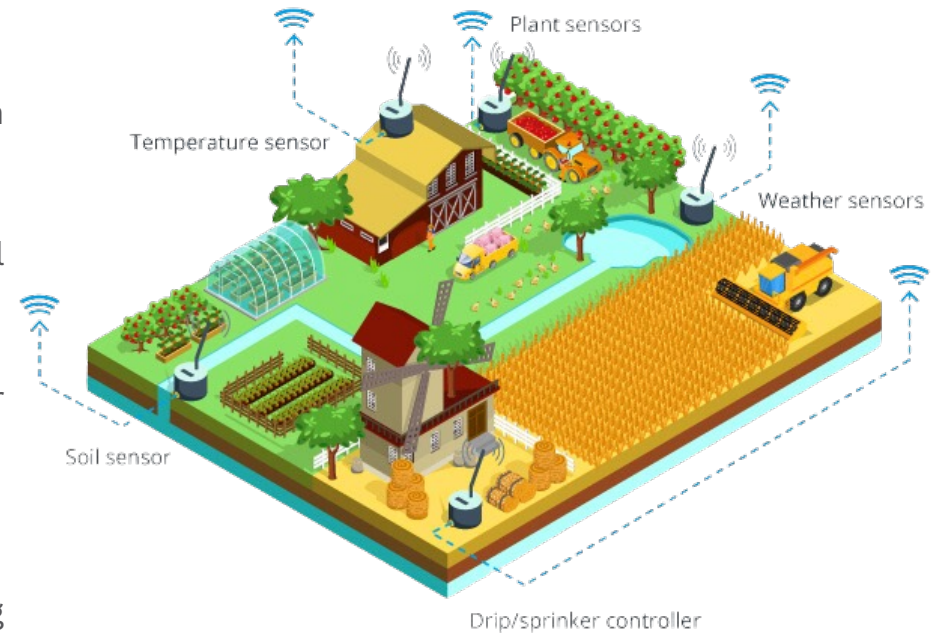
EcoStruxure™ Smart Irrigation System in Morocco: How It Works


SMART AGRICULTURE TECHNOLOGY

- Sensors monitor soil moisture, weather, and crop needs in real-time.
- EcoStruxure™ software analyzes data to predict optimal watering times.
- Automated system adjusts irrigation for precise water delivery.

Remote Management

- Farmers can remotely monitor and control irrigation using smartphones or computers.





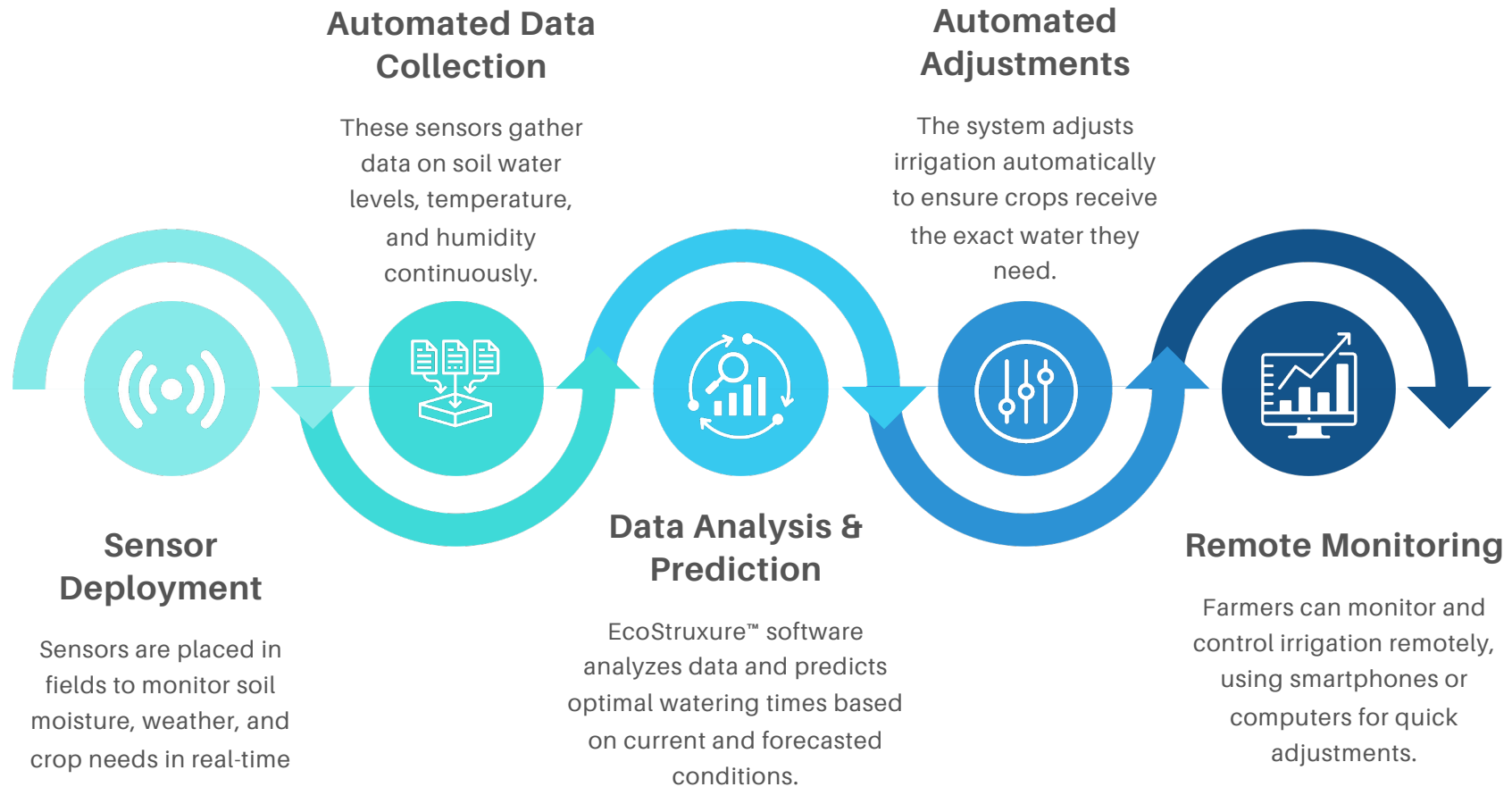
IloT EcoStruxure™
at WaterForce
with Microsoft

Life Is On

Schneider
Electric

Agriculture in Tunisia and Morocco

EcoStruxure™ Smart Irrigation System in Morocco: How It Works



Let's be Impact Makers !

Who act for sustainability, efficiency, and resiliency to create an energy future that works for everyone !

